



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 11, 2025 – 03:45 am GMT

PDB ID : 5TGA / pdb_00005tga
Title : Crystal structure of the S.cerevisiae 80S ribosome in complex with the A-site bound aminoacyl-tRNA analog ACCA-Pro
Authors : Melnikov, S.; Mailliot, J.
Deposited on : 2016-09-27
Resolution : 3.30 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.47

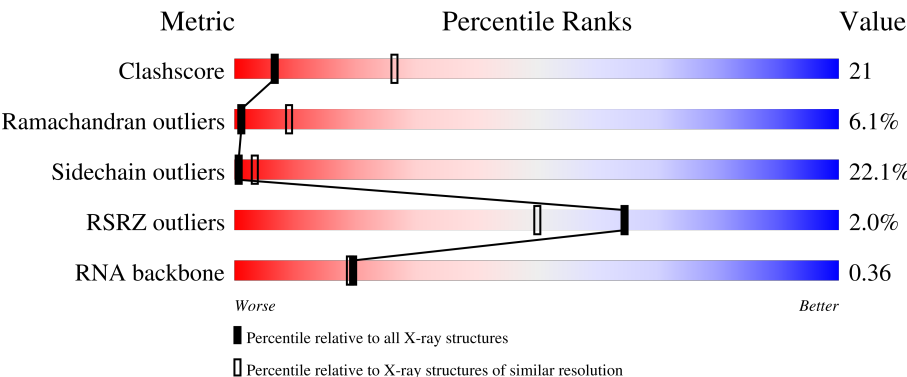
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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))
Clashscore	180529	1128 (3.32-3.28)
Ramachandran outliers	177936	1125 (3.32-3.28)
Sidechain outliers	177891	1124 (3.32-3.28)
RSRZ outliers	164620	1085 (3.32-3.28)
RNA backbone	3690	1014 (3.64-2.96)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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	1829	2% 28%49%20% .
2	S0	206	4% 37%45%16% .
2	s0	206	2% 34%47%19% .
3	S1	216	6% 35%48%15% ..
3	s1	216	% 41%44%14% .

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Mol	Chain	Length	Quality of chain
4	S2	217	
4	s2	217	
5	S3	223	
5	s3	223	
6	S4	260	
6	s4	260	
7	S5	206	
7	s5	206	
8	S6	226	
8	s6	226	
9	S7	186	
9	s7	186	
10	S8	199	
10	s8	199	
11	S9	185	
11	s9	185	
12	C0	96	
13	C1	155	
13	c1	155	
14	C2	124	
14	c2	124	
15	C3	150	
15	c3	150	
16	C4	128	
16	c4	128	

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Mol	Chain	Length	Quality of chain
17	C5	135	
17	c5	135	
18	C6	142	
18	c6	142	
19	C7	125	
19	c7	125	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	110	
22	d0	110	
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	70	
27	d5	70	
28	D6	97	
28	d6	97	
29	D7	81	

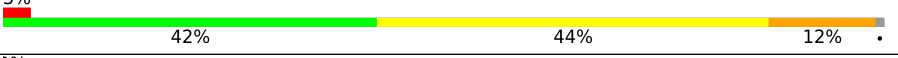
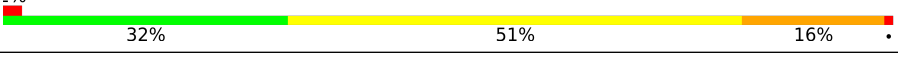
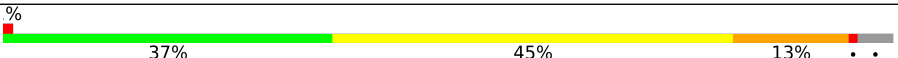
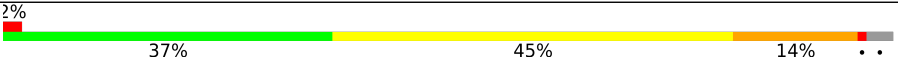
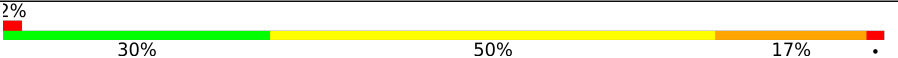
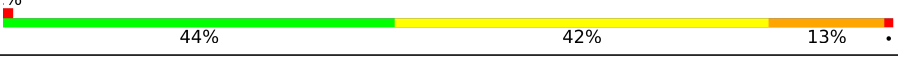
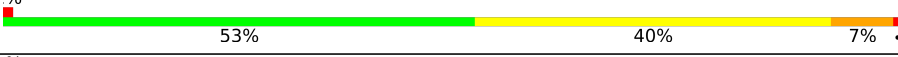
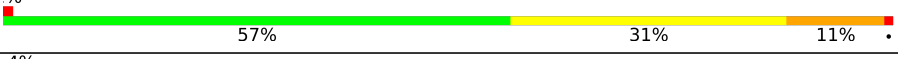
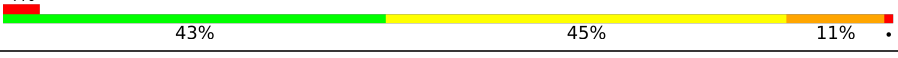
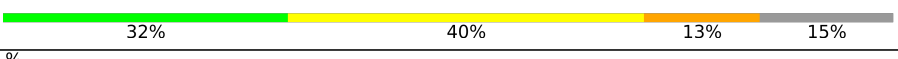
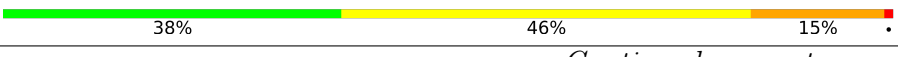
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Mol	Chain	Length	Quality of chain
29	d7	81	
30	D8	63	
30	d8	63	
31	D9	53	
31	d9	53	
32	E0	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
34	sR	318	
35	SM	159	
36	1	3394	
36	5	3394	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	252	
39	l2	252	
40	L3	386	
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	

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Mol	Chain	Length	Quality of chain
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	223	
44	l7	223	
45	L8	233	
45	l8	233	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	169	
48	m1	169	
49	M3	194	
49	m3	194	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	197	
52	m6	197	
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	

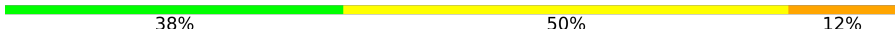
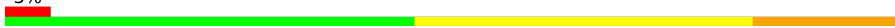
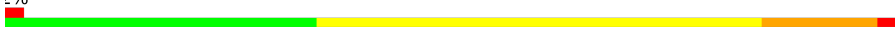
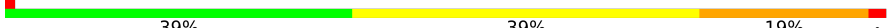
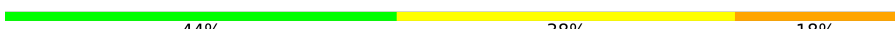
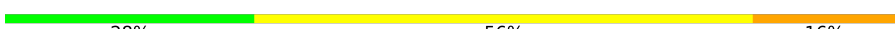
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Mol	Chain	Length	Quality of chain
55	M9	188	
55	m9	188	
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	100	
58	n2	100	
59	N3	136	
59	n3	136	
60	N4	135	
60	n4	135	
61	N5	121	
61	n5	121	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	100	
66	o0	100	
67	O1	109	

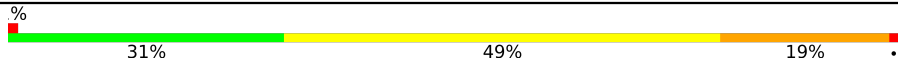
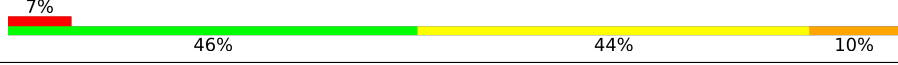
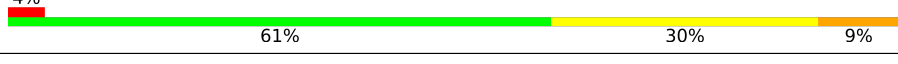
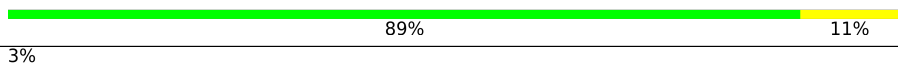
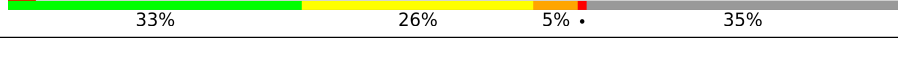
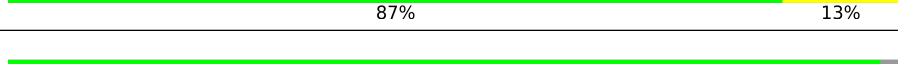
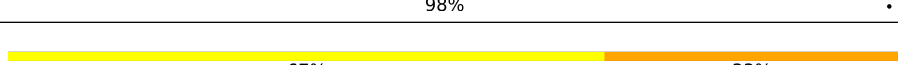
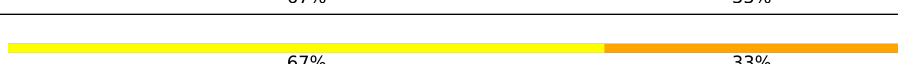
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Mol	Chain	Length	Quality of chain
67	o1	109	
68	O2	127	
68	o2	127	
69	O3	106	
69	o3	106	
70	O4	112	
70	o4	112	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	

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Mol	Chain	Length	Quality of chain
80	6	1800	
81	c0	96	
82	sM	104	
83	m2	150	
84	p0	219	
85	p1	47	
85	p2	47	
86	A	3	
86	B	3	

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
86	8AN	A	3403	-	-	X	-
86	8AN	B	3403	-	-	X	-
87	OHX	1	3433	-	-	X	-
87	OHX	1	3496	-	-	X	-
87	OHX	1	3665	-	-	-	X
87	OHX	1	3670	-	-	-	X
87	OHX	1	3671	-	-	-	X
87	OHX	1	3691	-	-	X	-
87	OHX	1	3724	-	-	-	X
87	OHX	1	3729	-	-	-	X
87	OHX	1	3733	-	-	X	X
87	OHX	1	3738	-	-	-	X
87	OHX	1	3747	-	-	X	-
87	OHX	1	3752	-	-	-	X
87	OHX	1	3765	-	-	-	X
87	OHX	1	3768	-	-	-	X
87	OHX	1	3772	-	-	X	-
87	OHX	1	3779	-	-	-	X
87	OHX	1	3781	-	-	-	X
87	OHX	1	3793	-	-	X	-
87	OHX	1	3799	-	-	-	X
87	OHX	1	3802	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
87	OHX	1	3804	-	-	-	X
87	OHX	1	3805	-	-	X	-
87	OHX	1	3806	-	-	X	-
87	OHX	2	1909	-	-	X	-
87	OHX	2	1962	-	-	X	-
87	OHX	2	1964	-	-	X	-
87	OHX	2	1969	-	-	X	-
87	OHX	2	2035	-	-	X	-
87	OHX	2	2080	-	-	-	X
87	OHX	4	214	-	-	-	X
87	OHX	5	3449	-	-	X	-
87	OHX	5	3593	-	-	X	-
87	OHX	5	3632	-	-	-	X
87	OHX	5	3638	-	-	-	X
87	OHX	5	3654	-	-	-	X
87	OHX	5	3670	-	-	-	X
87	OHX	5	3684	-	-	X	X
87	OHX	5	3691	-	-	-	X
87	OHX	5	3708	-	-	-	X
87	OHX	5	3716	-	-	-	X
87	OHX	5	3726	-	-	-	X
87	OHX	5	3735	-	-	-	X
87	OHX	5	3737	-	-	-	X
87	OHX	5	3741	-	-	-	X
87	OHX	5	3744	-	-	-	X
87	OHX	5	3751	-	-	-	X
87	OHX	5	3752	-	-	-	X
87	OHX	5	3758	-	-	-	X
87	OHX	5	3759	-	-	-	X
87	OHX	5	3763	-	-	-	X
87	OHX	5	3764	-	-	-	X
87	OHX	5	3778	-	-	-	X
87	OHX	5	3781	-	-	-	X
87	OHX	5	3788	-	-	-	X
87	OHX	5	3793	-	-	-	X
87	OHX	5	3802	-	-	-	X
87	OHX	5	3804	-	-	X	-
87	OHX	5	3807	-	-	-	X
87	OHX	5	3808	-	-	-	X
87	OHX	5	3814	-	-	-	X
87	OHX	6	1920	-	-	X	-
87	OHX	6	2028	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
87	OHX	6	2042	-	-	-	X
87	OHX	6	2054	-	-	-	X
87	OHX	6	2060	-	-	-	X
87	OHX	6	2064	-	-	-	X
87	OHX	6	2068	-	-	-	X
87	OHX	6	2075	-	-	-	X
87	OHX	6	2087	-	-	-	X
87	OHX	6	2089	-	-	-	X
87	OHX	6	2095	-	-	-	X
87	OHX	6	2097	-	-	-	X
87	OHX	6	2098	-	-	X	-
87	OHX	7	211	-	-	-	X
87	OHX	8	215	-	-	-	X
87	OHX	M0	303	-	-	X	X
87	OHX	M0	304	-	-	X	-
87	OHX	O7	102	-	-	X	-
87	OHX	c5	202	-	-	X	-
87	OHX	m0	302	-	-	-	X
87	OHX	n3	202	-	-	-	X
87	OHX	o9	101	-	-	-	X
88	MG	1	3852	-	-	-	X
88	MG	1	3921	-	-	-	X
88	MG	1	4099	-	-	-	X
88	MG	2	2093	-	-	-	X
88	MG	2	2096	-	-	-	X
88	MG	2	2101	-	-	-	X
88	MG	2	2114	-	-	-	X
88	MG	2	2128	-	-	-	X
88	MG	2	2140	-	-	-	X
88	MG	2	2156	-	-	-	X
88	MG	2	2162	-	-	-	X
88	MG	2	2173	-	-	-	X
88	MG	2	2225	-	-	-	X
88	MG	3	229	-	-	-	X
88	MG	5	4067	-	-	-	X
88	MG	5	4182	-	-	-	X
88	MG	5	4512	-	-	-	X
88	MG	6	2143	-	-	-	X
88	MG	6	2305	-	-	-	X
88	MG	E1	502	-	-	-	X
88	MG	M5	305	-	-	-	X
89	ZN	Q2	501	-	-	X	-

2 Entry composition

There are 90 unique types of molecules in this entry. The entry contains 414270 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			

- 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
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 3 is a protein called Small ribosomal subunit protein eS1A.

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 Small ribosomal subunit protein uS5.

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 Small ribosomal subunit protein uS3.

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

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

- Molecule 6 is a protein called Small ribosomal subunit protein eS4A.

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 Rps5p.

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 Small ribosomal subunit protein eS6A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called Small ribosomal subunit protein eS7A.

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
			1491	957	267	267			

- Molecule 10 is a protein called Small ribosomal subunit protein eS8A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	0	0	0
			1489	925	298	264			
10	s8	188	Total	C	N	O	0	0	0
			1489	925	298	264			

- Molecule 11 is a protein called Small ribosomal subunit protein uS4A.

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 Small ribosomal subunit protein eS10A.

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 Small ribosomal subunit protein uS17A.

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 Small ribosomal subunit protein eS12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			890	560	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 Small ribosomal subunit protein uS11B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

- Molecule 17 is a protein called Small ribosomal subunit protein uS19.

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 Small ribosomal subunit protein uS9A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O	S	0	0	0
			1105	708	203	194				
18	c6	142	Total	C	N	O	S	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
			926	577	177	170	2			
19	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	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 Small ribosomal subunit protein uS10.

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			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called Small ribosomal subunit protein eS25A.

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-B.

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
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

- Molecule 32 is a protein called Small ribosomal subunit protein eS30A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called Small ribosomal subunit protein eS31.

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 Small ribosomal subunit protein RACK1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 35 is a protein called Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O		0	0	0
			1104	654	221	229				

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	134	LEU	ASP	conflict	UNP P39015

- 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
			67376	30095	12145	21987	3149			

- 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
			1914	1191	388	334	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	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
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- 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
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called Large ribosomal subunit protein eL6A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	l6	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called Large ribosomal subunit protein uL30A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	l7	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
			1804	1151	323	327	3			
45	l8	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	l9	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
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

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

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 Large ribosomal subunit protein eL13A.

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 Large ribosomal subunit protein eL14A.

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			
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
			1420	882	281	257			
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			

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

- Molecule 60 is a protein called Large ribosomal subunit protein eL24A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			
60	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	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
			964	620	169	173	2			
61	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 62 is a protein called Large ribosomal subunit protein uL24A.

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 Large ribosomal subunit protein eL30.

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
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	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			
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
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	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
			965	612	185	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
			770	481	156	131	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			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	o8	77	Total	C	N	O	0	0	0
			608	388	114	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 60S ribosomal protein L40-A.

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 Large ribosomal subunit protein eL41B.

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 RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

- Molecule 81 is a protein called Small ribosomal subunit protein eS10A,40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10-A.

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

- Molecule 82 is a protein called Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
82	sM	104	Total	C	N	O	0	0	0
			681	404	140	137			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
sM	59	ALA	GLY	conflict	UNP P39015

- Molecule 83 is a protein called 60S Ribosomal Protein L12.

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

- Molecule 84 is a protein called Large ribosomal subunit protein uL10.

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

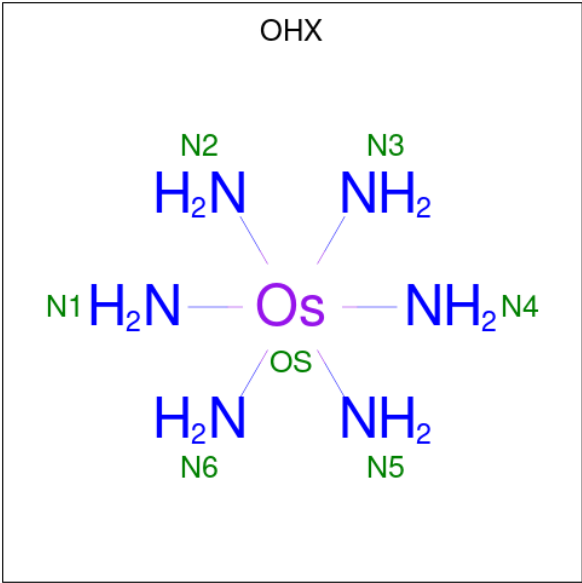
- Molecule 85 is a protein called 60S Ribosomal Protein P1/2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
85	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			
85	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 86 is a RNA chain called Peptidyl-tRNA analog ACCA-Pro.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
86	A	3	Total	C	N	O	P	0	0	0
			62	28	12	19	3			
86	B	3	Total	C	N	O	P	0	0	0
			62	28	12	19	3			

- Molecule 87 is osmium (III) hexammine (CCD ID: OHX) (formula: H₁₂N₆Os).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
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			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total	N	Os	0	0
			7	6	1		
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87	2	1	Total	N	Os	0	0
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87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		
87	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	2	1	Total 7	N 6	Os 1	0	0
87	S2	1	Total 7	N 6	Os 1	0	0
87	S8	1	Total 7	N 6	Os 1	0	0
87	C3	1	Total 7	N 6	Os 1	0	0
87	C5	1	Total 7	N 6	Os 1	0	0
87	C8	1	Total 7	N 6	Os 1	0	0
87	C8	1	Total 7	N 6	Os 1	0	0
87	D9	1	Total 7	N 6	Os 1	0	0
87	SR	1	Total 7	N 6	Os 1	0	0
87	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
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			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
			7	6	1		
87	1	1	Total	N	Os	0	0
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87	1	1	Total	N	Os	0	0
			7	6	1		
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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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87	1	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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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	1	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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87	3	1	Total	N	Os	0	0
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87	3	1	Total	N	Os	0	0
			7	6	1		
87	3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	3	1	Total	N	Os	0	0
			7	6	1		
87	3	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
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87	4	1	Total	N	Os	0	0
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87	4	1	Total	N	Os	0	0
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87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	4	1	Total	N	Os	0	0
			7	6	1		
87	L3	1	Total	N	Os	0	0
			7	6	1		
87	L3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	L3	1	Total 7	N 6	Os 1	0	0
87	L4	1	Total 7	N 6	Os 1	0	0
87	L5	1	Total 7	N 6	Os 1	0	0
87	M0	1	Total 7	N 6	Os 1	0	0
87	M0	1	Total 7	N 6	Os 1	0	0
87	M0	1	Total 7	N 6	Os 1	0	0
87	M0	1	Total 7	N 6	Os 1	0	0
87	M5	1	Total 7	N 6	Os 1	0	0
87	M7	1	Total 7	N 6	Os 1	0	0
87	M8	1	Total 7	N 6	Os 1	0	0
87	M9	1	Total 7	N 6	Os 1	0	0
87	M9	1	Total 7	N 6	Os 1	0	0
87	M9	1	Total 7	N 6	Os 1	0	0
87	N8	1	Total 7	N 6	Os 1	0	0
87	N9	1	Total 7	N 6	Os 1	0	0
87	O1	1	Total 7	N 6	Os 1	0	0
87	O3	1	Total 7	N 6	Os 1	0	0
87	O7	1	Total 7	N 6	Os 1	0	0
87	O7	1	Total 7	N 6	Os 1	0	0
87	Q2	1	Total 7	N 6	Os 1	0	0
87	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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			7	6	1		
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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87	6	1	Total	N	Os	0	0
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			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	6	1	Total	N	Os	0	0
			7	6	1		
87	s1	1	Total	N	Os	0	0
			7	6	1		
87	s1	1	Total	N	Os	0	0
			7	6	1		
87	s4	1	Total	N	Os	0	0
			7	6	1		
87	s8	1	Total	N	Os	0	0
			7	6	1		
87	c1	1	Total	N	Os	0	0
			7	6	1		
87	c3	1	Total	N	Os	0	0
			7	6	1		
87	c5	1	Total	N	Os	0	0
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87	c5	1	Total	N	Os	0	0
			7	6	1		
87	c8	1	Total	N	Os	0	0
			7	6	1		
87	d9	1	Total	N	Os	0	0
			7	6	1		
87	sR	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	2	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	1	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
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			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	5	1	Total	N	Os	0	0
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87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	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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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
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	5	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	7	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	1	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		
87	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	8	1	Total 7	N 6	Os 1	0	0
87	12	1	Total 7	N 6	Os 1	0	0
87	13	1	Total 7	N 6	Os 1	0	0
87	13	1	Total 7	N 6	Os 1	0	0
87	14	1	Total 7	N 6	Os 1	0	0
87	14	1	Total 7	N 6	Os 1	0	0
87	15	1	Total 7	N 6	Os 1	0	0
87	15	1	Total 7	N 6	Os 1	0	0
87	15	1	Total 7	N 6	Os 1	0	0
87	19	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m0	1	Total 7	N 6	Os 1	0	0
87	m1	1	Total 7	N 6	Os 1	0	0
87	m4	1	Total 7	N 6	Os 1	0	0
87	m5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
87	m5	1	Total	N	Os	0	0
			7	6	1		
87	m7	1	Total	N	Os	0	0
			7	6	1		
87	m9	1	Total	N	Os	0	0
			7	6	1		
87	n1	1	Total	N	Os	0	0
			7	6	1		
87	n3	1	Total	N	Os	0	0
			7	6	1		
87	n3	1	Total	N	Os	0	0
			7	6	1		
87	n9	1	Total	N	Os	0	0
			7	6	1		
87	o3	1	Total	N	Os	0	0
			7	6	1		
87	o7	1	Total	N	Os	0	0
			7	6	1		
87	o7	1	Total	N	Os	0	0
			7	6	1		
87	o9	1	Total	N	Os	0	0
			7	6	1		
87	q1	1	Total	N	Os	0	0
			7	6	1		
87	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 88 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	2	170	Total	Mg	0	0
			170	170		
88	S1	1	Total	Mg	0	0
			1	1		
88	S2	1	Total	Mg	0	0
			1	1		
88	S4	2	Total	Mg	0	0
			2	2		
88	S6	1	Total	Mg	0	0
			1	1		
88	S8	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	C1	2	Total 2	Mg 2	0	0
88	C5	1	Total 1	Mg 1	0	0
88	C8	1	Total 1	Mg 1	0	0
88	D0	1	Total 1	Mg 1	0	0
88	D4	1	Total 1	Mg 1	0	0
88	D6	1	Total 1	Mg 1	0	0
88	D9	3	Total 3	Mg 3	0	0
88	E1	1	Total 1	Mg 1	0	0
88	SM	1	Total 1	Mg 1	0	0
88	1	698	Total 698	Mg 698	0	0
88	3	18	Total 18	Mg 18	0	0
88	4	28	Total 28	Mg 28	0	0
88	L2	3	Total 3	Mg 3	0	0
88	L3	5	Total 5	Mg 5	0	0
88	L4	7	Total 7	Mg 7	0	0
88	L7	3	Total 3	Mg 3	0	0
88	L8	1	Total 1	Mg 1	0	0
88	M0	5	Total 5	Mg 5	0	0
88	M1	2	Total 2	Mg 2	0	0
88	M3	3	Total 3	Mg 3	0	0
88	M4	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	M5	4	Total 4	Mg 4	0	0
88	M6	4	Total 4	Mg 4	0	0
88	M7	10	Total 10	Mg 10	0	0
88	M8	3	Total 3	Mg 3	0	0
88	M9	2	Total 2	Mg 2	0	0
88	N0	2	Total 2	Mg 2	0	0
88	N1	1	Total 1	Mg 1	0	0
88	N3	3	Total 3	Mg 3	0	0
88	N6	2	Total 2	Mg 2	0	0
88	N8	7	Total 7	Mg 7	0	0
88	N9	1	Total 1	Mg 1	0	0
88	O1	5	Total 5	Mg 5	0	0
88	O2	4	Total 4	Mg 4	0	0
88	O3	2	Total 2	Mg 2	0	0
88	O4	1	Total 1	Mg 1	0	0
88	O5	2	Total 2	Mg 2	0	0
88	O7	6	Total 6	Mg 6	0	0
88	Q0	2	Total 2	Mg 2	0	0
88	Q2	3	Total 3	Mg 3	0	0
88	6	235	Total 235	Mg 235	0	0
88	s1	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	s4	1	Total 1	Mg 1	0	0
88	s6	2	Total 2	Mg 2	0	0
88	s8	4	Total 4	Mg 4	0	0
88	c6	2	Total 2	Mg 2	0	0
88	c7	1	Total 1	Mg 1	0	0
88	c8	4	Total 4	Mg 4	0	0
88	c9	3	Total 3	Mg 3	0	0
88	d2	1	Total 1	Mg 1	0	0
88	d3	2	Total 2	Mg 2	0	0
88	d4	2	Total 2	Mg 2	0	0
88	d5	1	Total 1	Mg 1	0	0
88	d9	2	Total 2	Mg 2	0	0
88	sM	2	Total 2	Mg 2	0	0
88	5	759	Total 759	Mg 759	0	0
88	7	28	Total 28	Mg 28	0	0
88	8	19	Total 19	Mg 19	0	0
88	12	6	Total 6	Mg 6	0	0
88	13	13	Total 13	Mg 13	0	0
88	14	1	Total 1	Mg 1	0	0
88	15	6	Total 6	Mg 6	0	0
88	17	7	Total 7	Mg 7	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	l8	1	Total 1	Mg 1	0	0
88	l9	3	Total 3	Mg 3	0	0
88	m0	1	Total 1	Mg 1	0	0
88	m3	1	Total 1	Mg 1	0	0
88	m4	1	Total 1	Mg 1	0	0
88	m5	3	Total 3	Mg 3	0	0
88	m6	4	Total 4	Mg 4	0	0
88	m7	8	Total 8	Mg 8	0	0
88	m8	4	Total 4	Mg 4	0	0
88	m9	1	Total 1	Mg 1	0	0
88	n0	5	Total 5	Mg 5	0	0
88	n1	3	Total 3	Mg 3	0	0
88	n3	3	Total 3	Mg 3	0	0
88	n6	1	Total 1	Mg 1	0	0
88	n8	7	Total 7	Mg 7	0	0
88	n9	2	Total 2	Mg 2	0	0
88	o2	3	Total 3	Mg 3	0	0
88	o3	4	Total 4	Mg 4	0	0
88	o4	1	Total 1	Mg 1	0	0
88	o6	1	Total 1	Mg 1	0	0
88	o7	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	q0	1	Total 1	Mg 1	0	0
88	q1	2	Total 2	Mg 2	0	0
88	q2	1	Total 1	Mg 1	0	0
88	q3	1	Total 1	Mg 1	0	0
88	p0	1	Total 1	Mg 1	0	0

- Molecule 89 is ZINC ION (CCD ID: ZN) (formula: Zn).

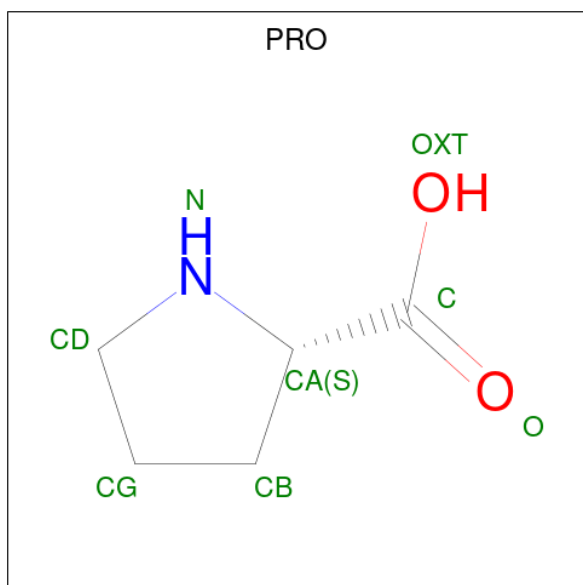
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
89	D6	1	Total 1	Zn 1	0	0
89	D7	1	Total 1	Zn 1	0	0
89	D9	1	Total 1	Zn 1	0	0
89	E1	1	Total 1	Zn 1	0	0
89	O7	1	Total 1	Zn 1	0	0
89	Q0	1	Total 1	Zn 1	0	0
89	Q2	1	Total 1	Zn 1	0	0
89	Q3	1	Total 1	Zn 1	0	0
89	d6	1	Total 1	Zn 1	0	0
89	d7	1	Total 1	Zn 1	0	0
89	d9	1	Total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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
89	q2	1	Total	Zn	0	0
			1	1		
89	q3	1	Total	Zn	0	0
			1	1		

- Molecule 90 is PROLINE (CCD ID: PRO) (formula: $C_5H_9NO_2$).

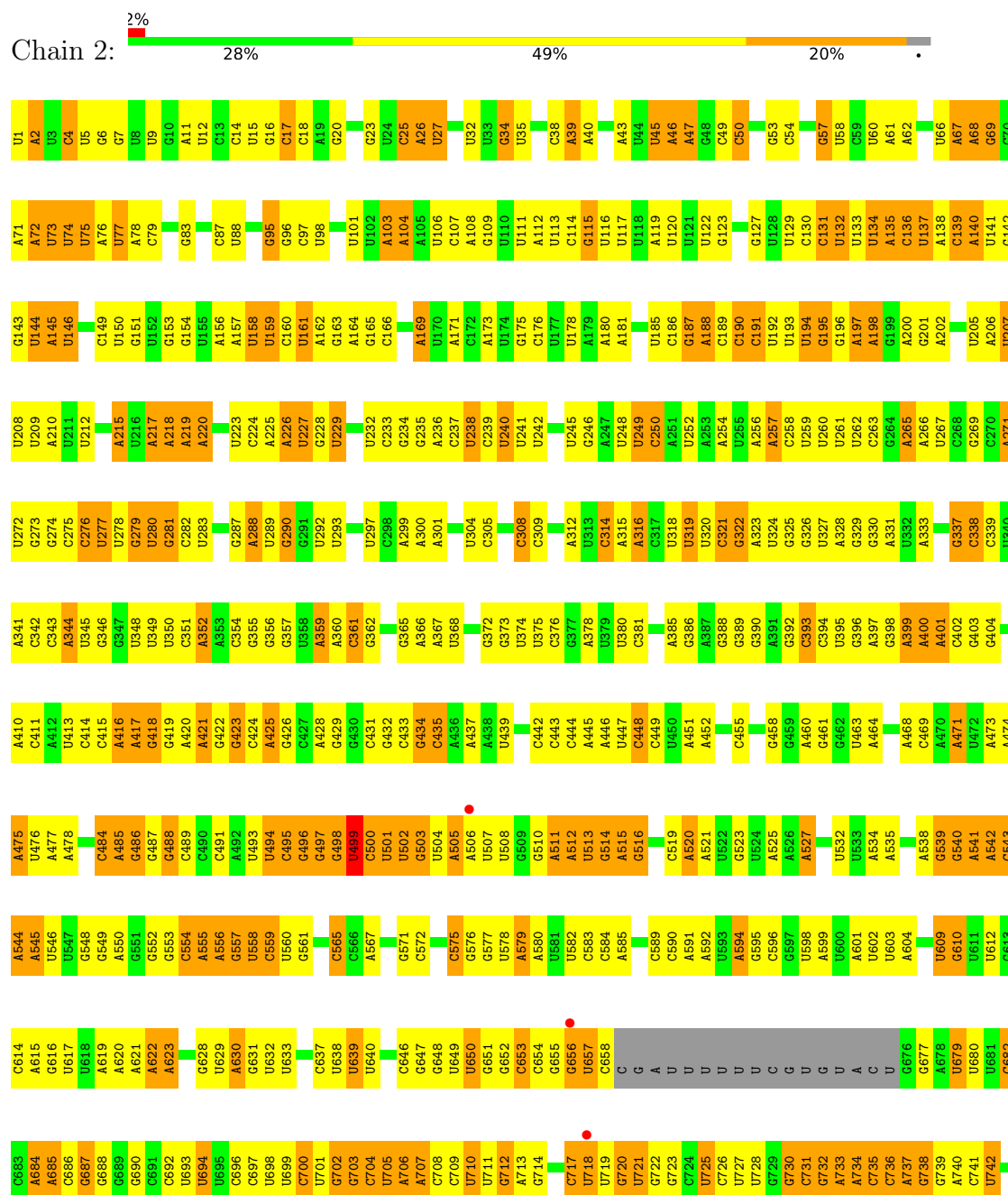


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
90	A	1	Total	C	N	O	0	0
			7	5	1	1		
90	B	1	Total	C	N	O	0	0
			7	5	1	1		

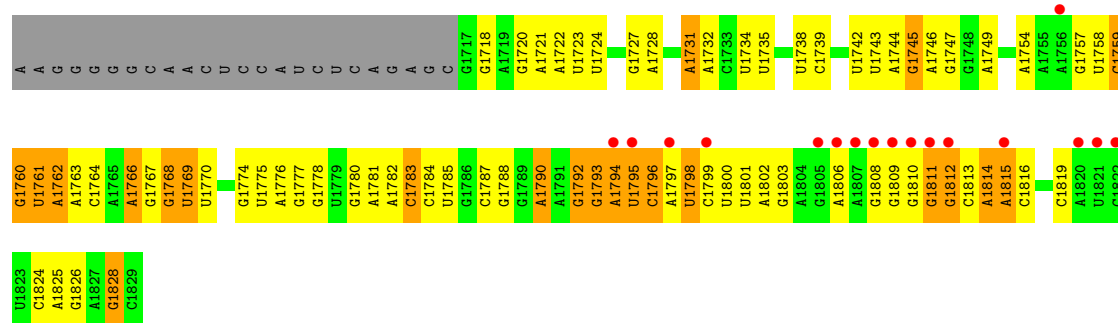
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes 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.

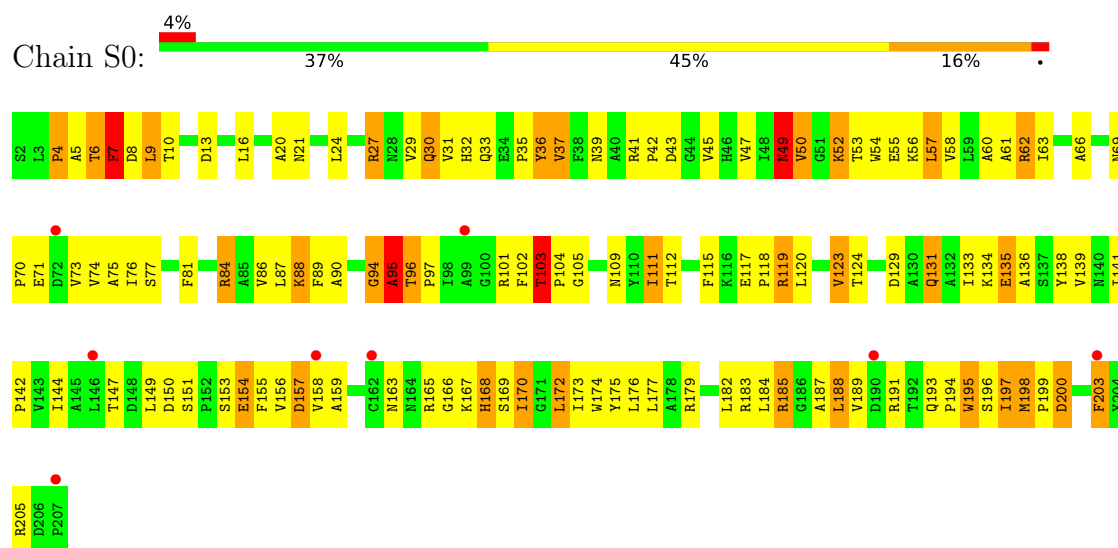
• Molecule 1: 18S ribosomal RNA



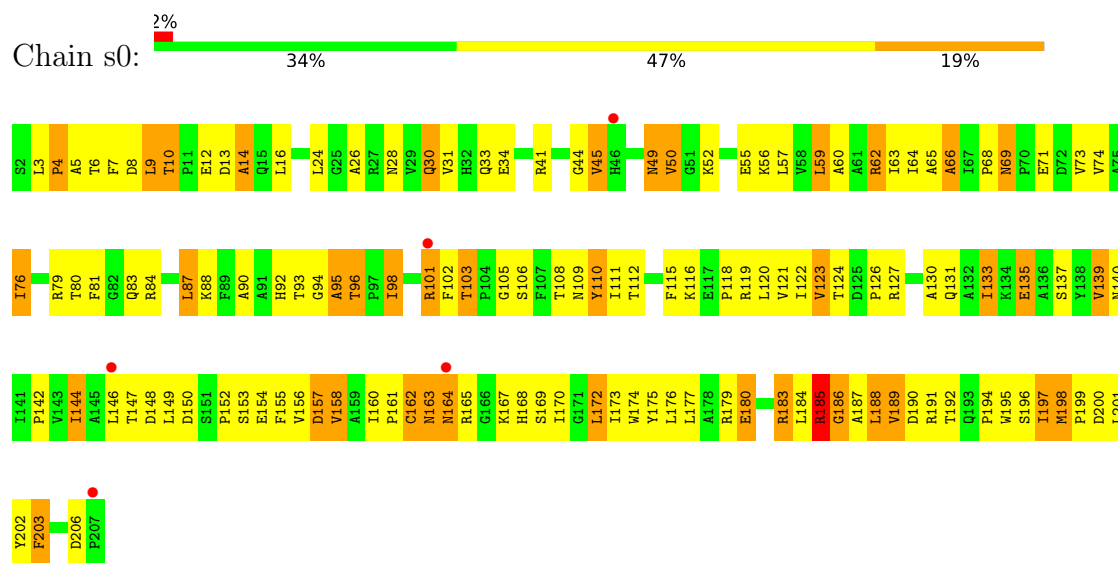
C1624	C1625	U1626	G1629	U1630	A1631	A1635	C1636	C1637	G1638	C1639	C1640	C1641	C1642	U1643	C1644	G1645	C1646	G1649	U1650	C1653	U1654	A1655	U1656	U1657	G1658	A1659	A1660	U1661	G1662	G1663	A1667	G1670	A1671	G1672	G1673	C1674	C1675	U1676	C1677	G1680	A1681	U1682	C1683	U1684	C1685	C	U	U	A	G	G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
G1499	C1500	A1503	G1504	G1505	G1506	G1507	U1508	C1509	U1510	U1511	G1512	C1513	U1514	U1515	A1516	U1517	U1518	U1519	G1520	G1521	U1522	G1523	A1524	A1525	A1526	C1527	U1528	U1529	G1530	U1531	U1532	G1533	G1534	U1535	G1536	U1537	G1538	G1539	G1540	G1541	G1542	A1543	U1544	U1545	G1546	A1547	A1550	U1551	U1552	G1553	U1554	A1555	A1556	U1557	U1558	A1559																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
G1562	C1563	U1564	C1565	U1566	U1567	C1568	A1569	A1570	C1571	G1572	A1573	G1574	G1575	A1576	A1577	U1578	U1579	A1583	G1584	U1585	A1586	A1587	G1588	C1589	G1590	C1591	A1592	A1593	G1594	U1595	C1596	A1597	U1598	G1599	A1600	G1601	U1602	U1603	U1604	G1605	C1606	G1607	U1608	U1609	G1610	A1611	U1612	U1613	A1614	C1615	G1616	U1617	C1618	C1619	C1620	U1621	G1622	C1623																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
G1429	U1430	C1431	U1432	G1433	U1434	G1435	A1436	A1444	U1445	A1446	C1447	G1448	U1449	U1450	A1451	U1452	G1453	G1454	U1455	G1456	C1457	U1458	G1459	A1460	C1461	G1462	U1468	A1469	C1470	A1471	C1472	U1473	G1474	A1475	C1476	G1477	G1478	A1479	G1480	C1481	C1482	A1483	G1484	C1485	G1486	A1487	U1488	U1489	C1490	U1491	A1492	U1493	C1494	C1495	U1496	U1497	G1498																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
G1358	C1359	A1360	U1361	U1362	U1363	G1364	C1365	U1366	G1367	U1368	U1369	A1370	A1371	U1372	C1373	C1374	C1375	C1376	U1377	U1378	G1379	U1380	U1381	G1382	G1383	U1384	G1385	U1386	G1387	A1388	G1389	U1390	U1398	C1399	A1400	A1401	G1402	C1403	U1407	G1408	G1409	A1410	A1411	G1412	U1413	U1414	U1415	G1416	A1417	G1418	U1419	A1420	U1421	U1422	U1423	U1424	U1425	U1426	U1427	U1428	U1429	U1430	U1431	U1432	U1433	U1434	U1435	U1436	U1437	U1438	U1439																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
A1287	G1288	U1289	U1290	G1291	G1292	U1293	G1294	U1298	G1299	A1300	U1301	U1302	U1303	G1308	U1309	U1310	U1311	A1312	U1313	U1314	U1315	G1316	C1317	G1318	A1319	C1320	U1321	U1322	U1323	U1324	A1325	A1331	C1332	U1333	U1334	A1335	U1336	A1337	C1338	C1339	U1340	A1341	A1344	A1345	A1346	G1349	U1350	C1351	G1352	U1353	G1354	C1355	U1356	A1357																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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• Molecule 2: 40S ribosomal protein S0-A

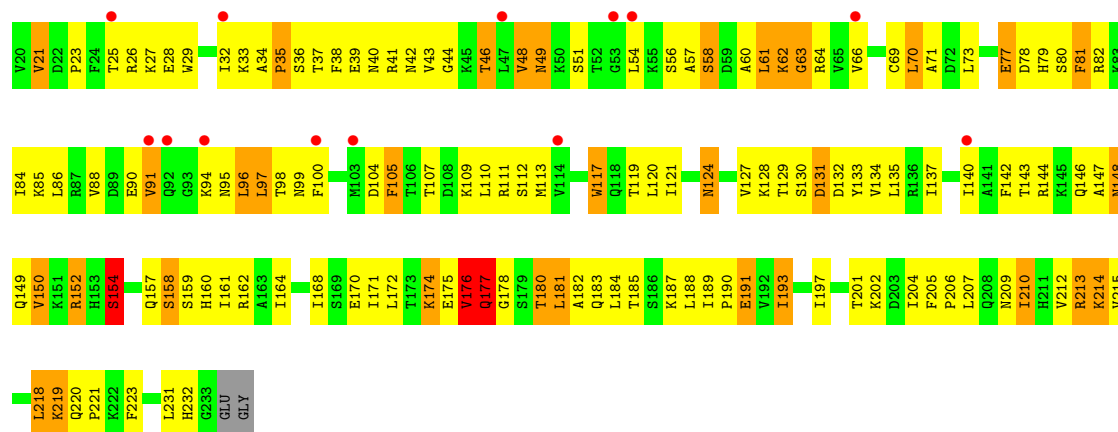


• Molecule 2: 40S ribosomal protein S0-A

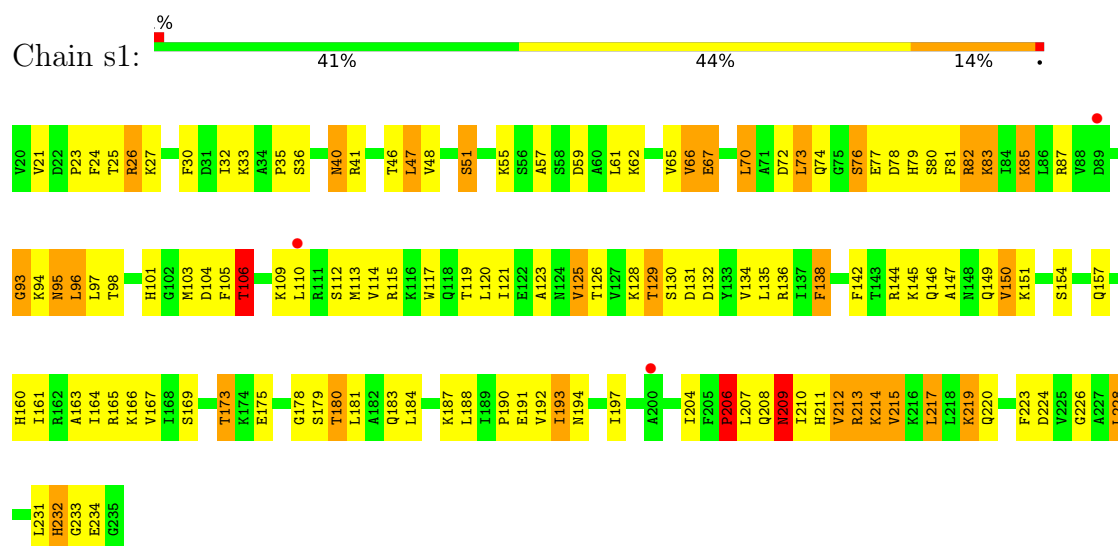


• Molecule 3: Small ribosomal subunit protein eS1A

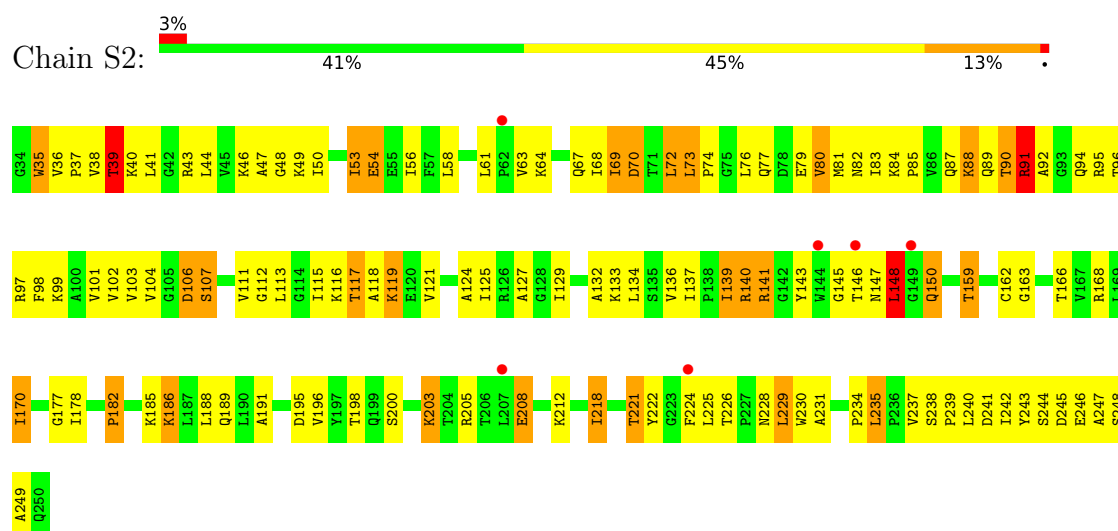




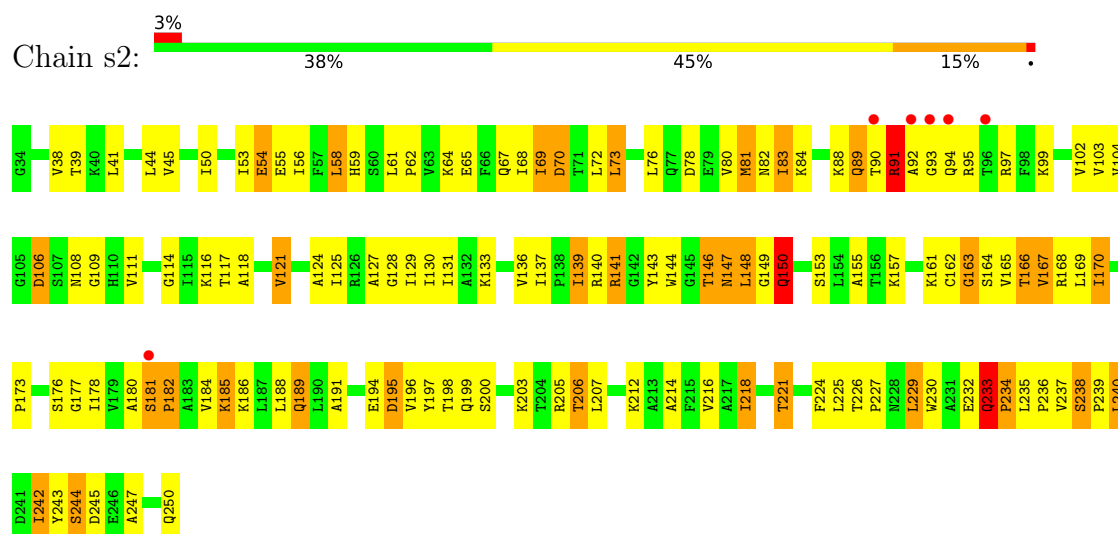
• Molecule 3: Small ribosomal subunit protein eS1A



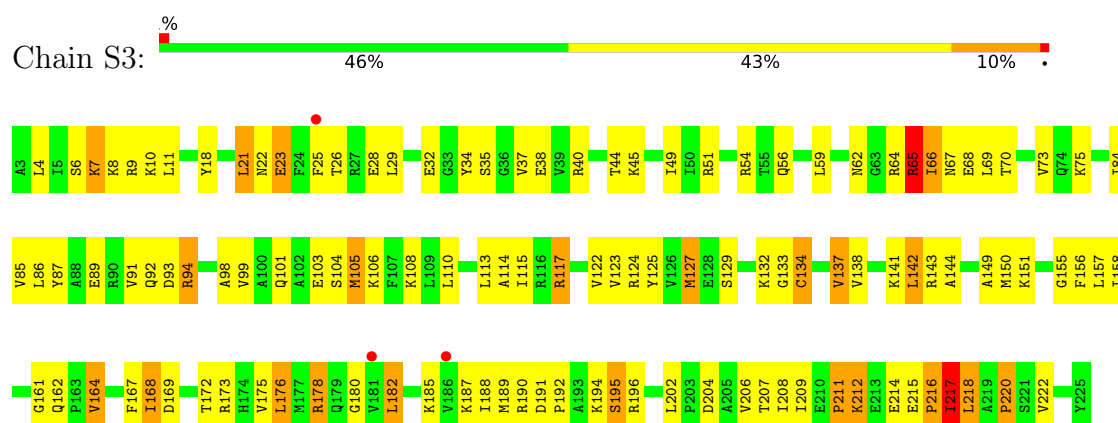
• Molecule 4: Small ribosomal subunit protein uS5



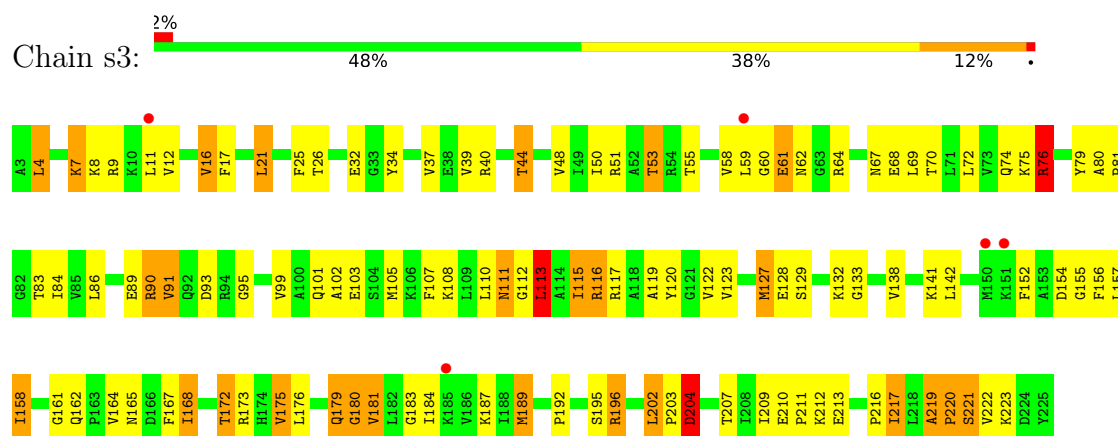
• Molecule 4: Small ribosomal subunit protein uS5



• Molecule 5: Small ribosomal subunit protein uS3

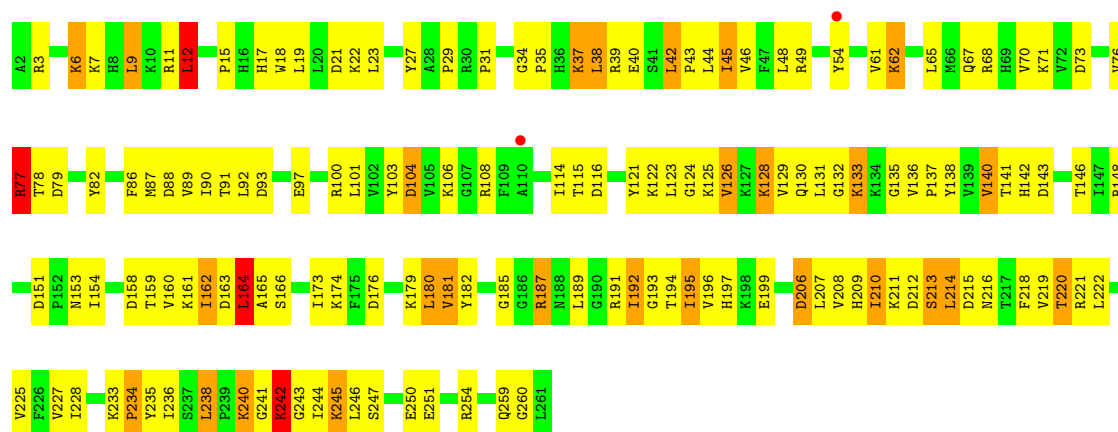


• Molecule 5: Small ribosomal subunit protein uS3



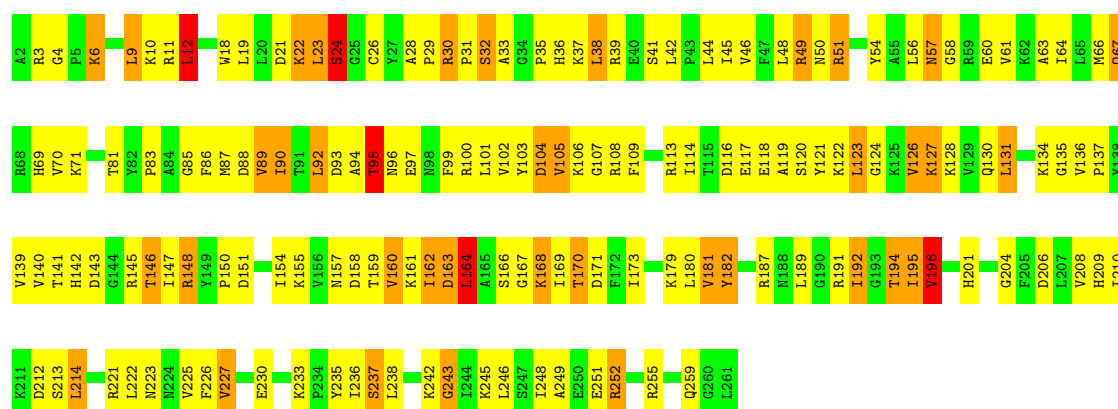
• Molecule 6: Small ribosomal subunit protein eS4A





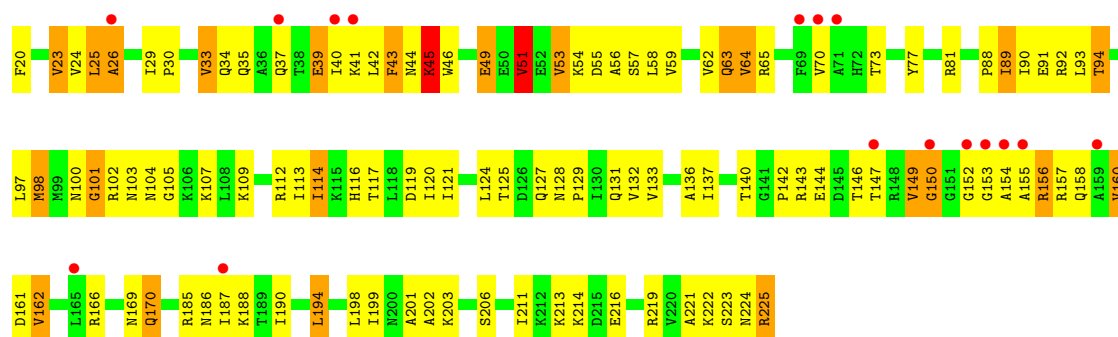
• Molecule 6: Small ribosomal subunit protein eS4A

Chain s4: 38% 46% 14% .



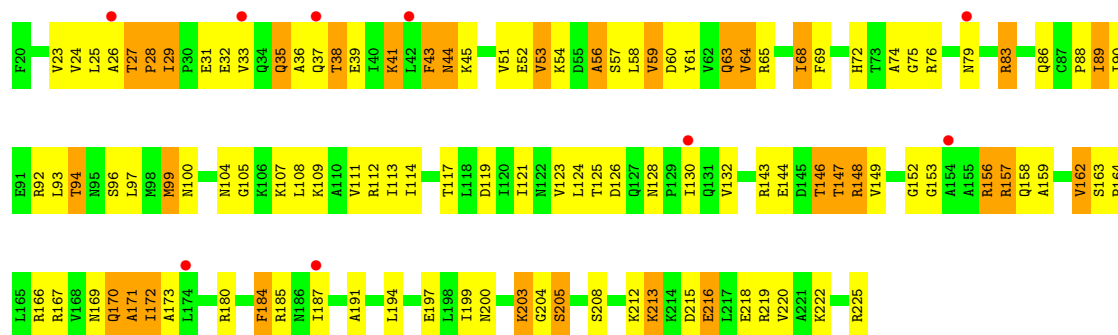
• Molecule 7: Rps5p

Chain S5: 8% 45% 43% 11% .

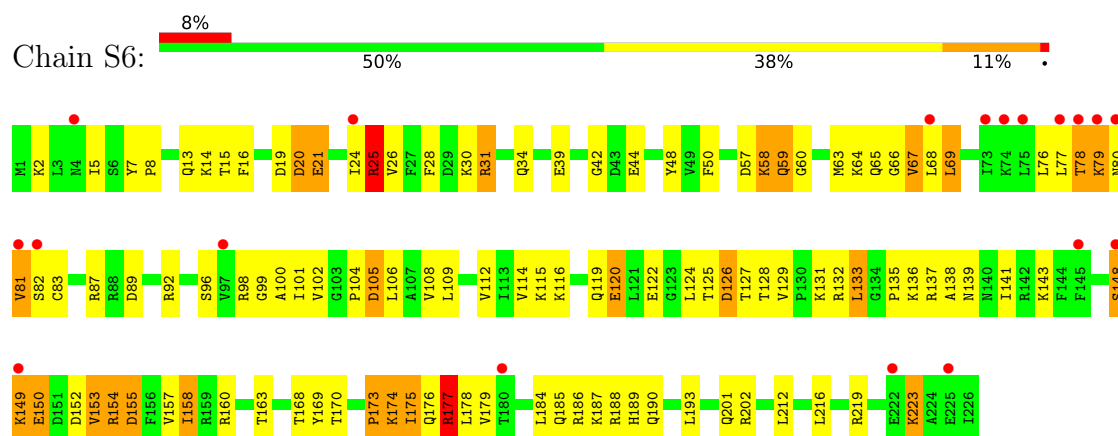


• Molecule 7: Rps5p

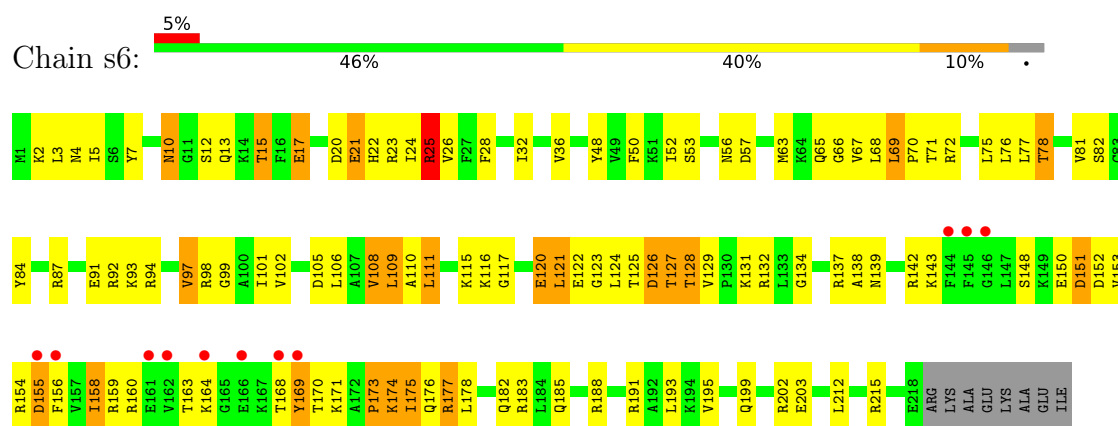
Chain s5: 4% 45% 40% 16%



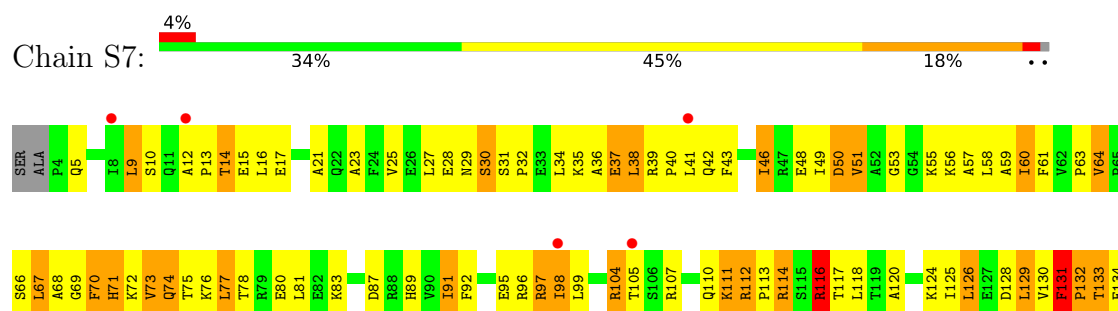
• Molecule 8: Small ribosomal subunit protein eS6A



• Molecule 9: Small ribosomal subunit protein eS7A

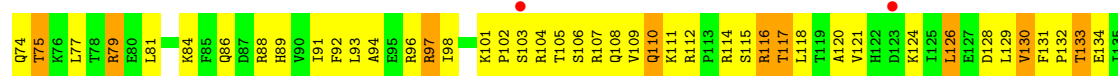
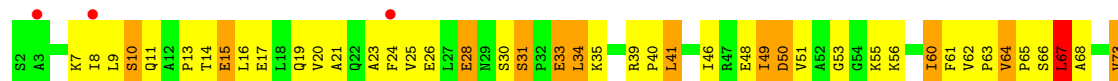


• Molecule 9: Small ribosomal subunit protein eS7A

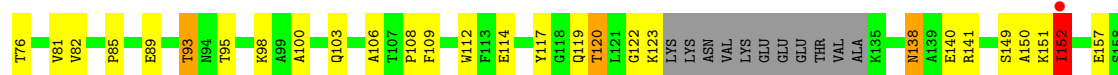
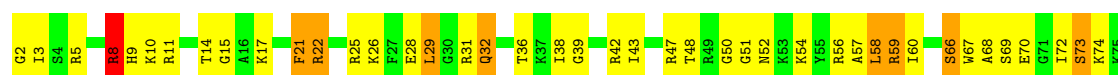




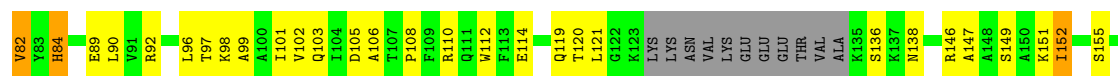
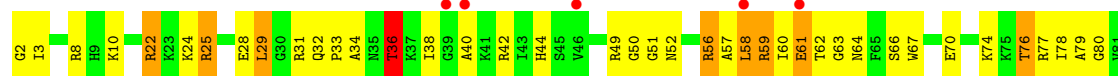
• Molecule 9: Small ribosomal subunit protein eS7A



• Molecule 10: Small ribosomal subunit protein eS8A

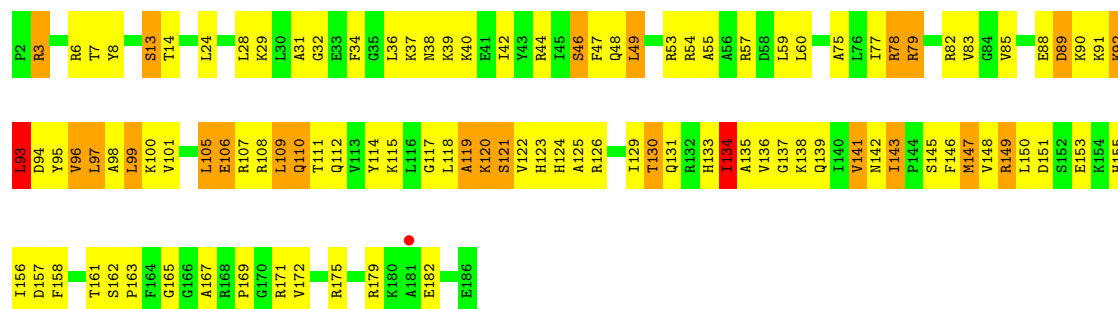


• Molecule 10: Small ribosomal subunit protein eS8A

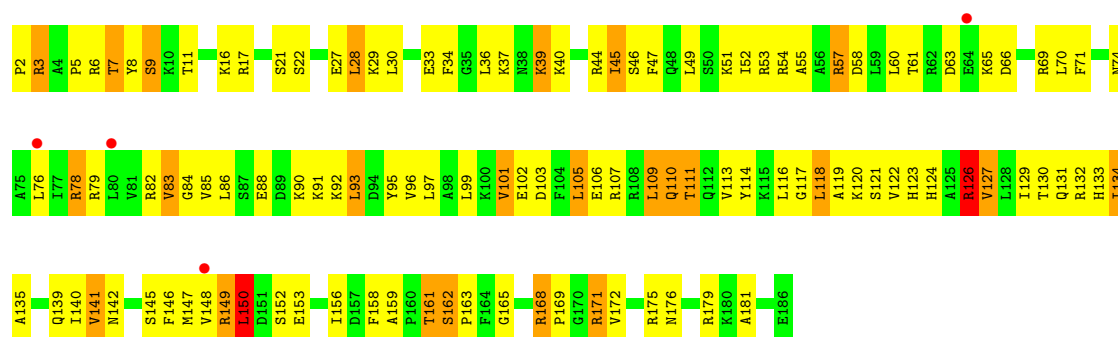


• Molecule 11: Small ribosomal subunit protein uS4A

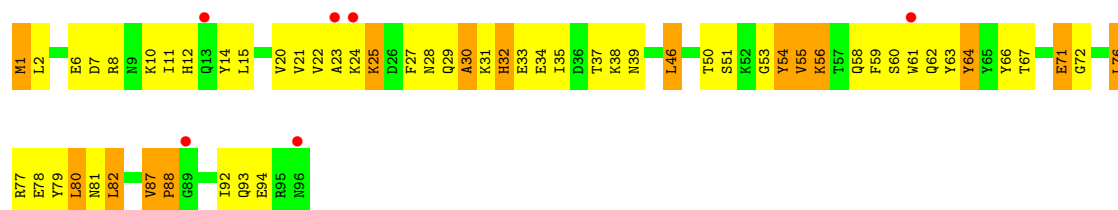




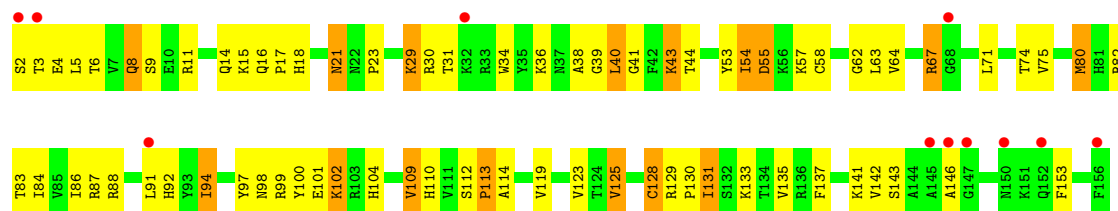
• Molecule 11: Small ribosomal subunit protein uS4A



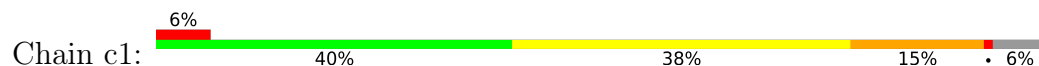
• Molecule 12: Small ribosomal subunit protein eS10A

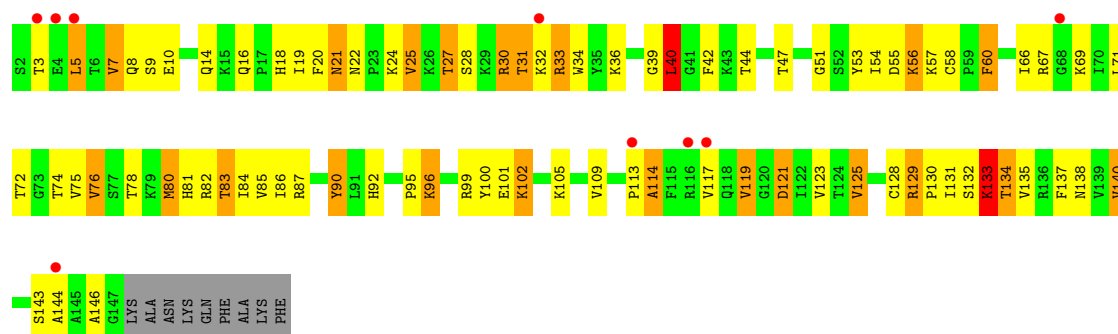


• Molecule 13: Small ribosomal subunit protein uS17A

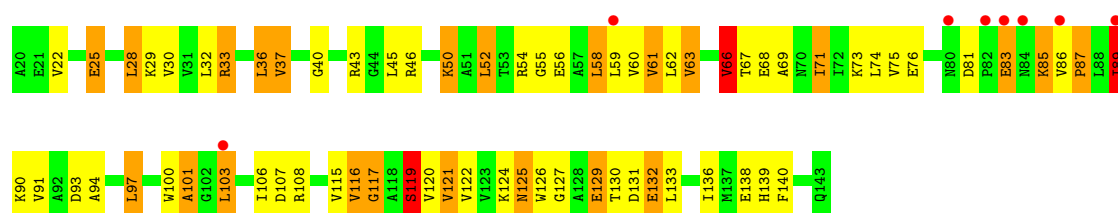


• Molecule 13: Small ribosomal subunit protein uS17A

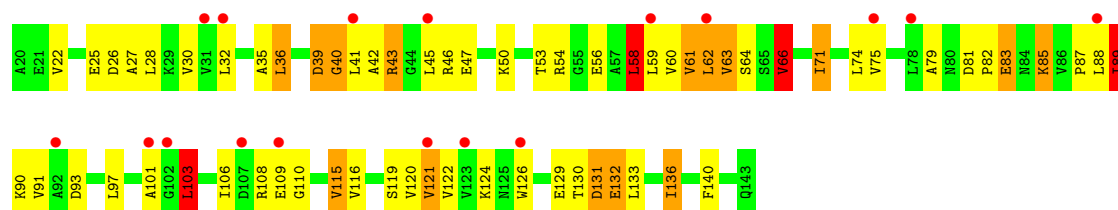




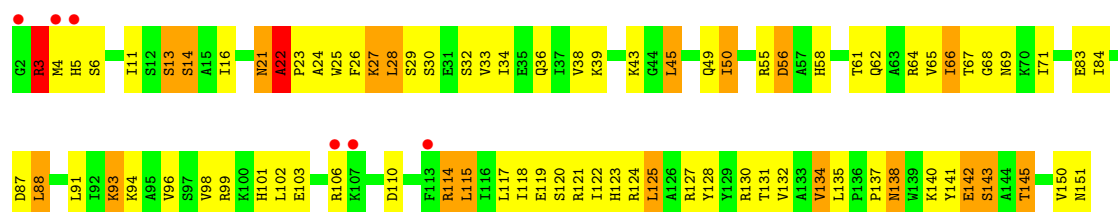
- Molecule 14: Small ribosomal subunit protein eS12



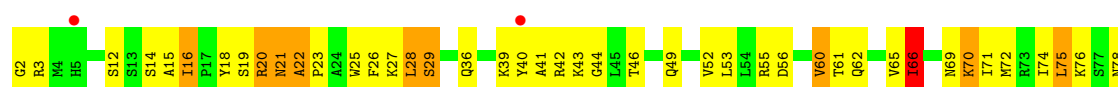
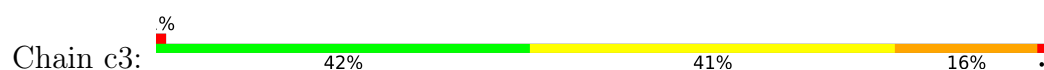
- Molecule 14: Small ribosomal subunit protein eS12



- Molecule 15: 40S ribosomal protein S13



- Molecule 15: 40S ribosomal protein S13

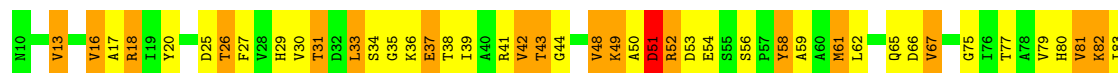
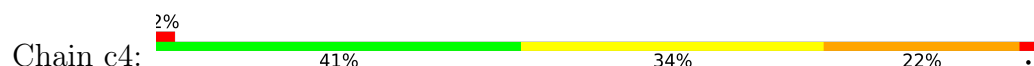




- Molecule 16: Small ribosomal subunit protein uS11B



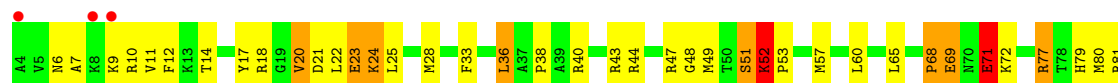
- Molecule 16: Small ribosomal subunit protein uS11B



- Molecule 17: Small ribosomal subunit protein uS19

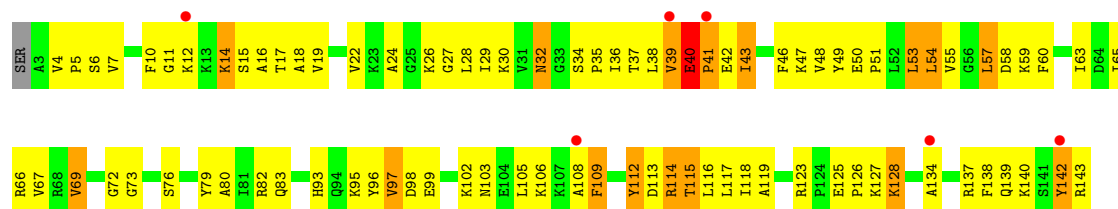


- Molecule 17: Small ribosomal subunit protein uS19

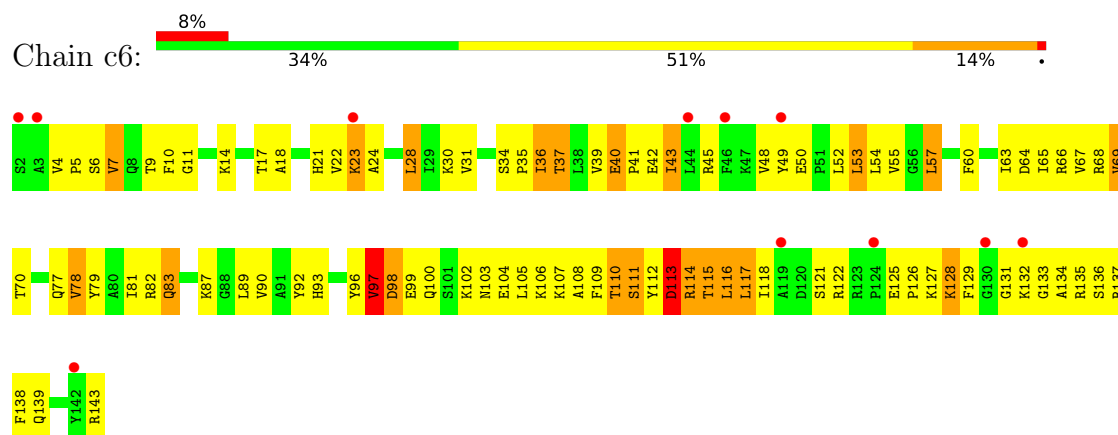


- Molecule 18: Small ribosomal subunit protein uS9A

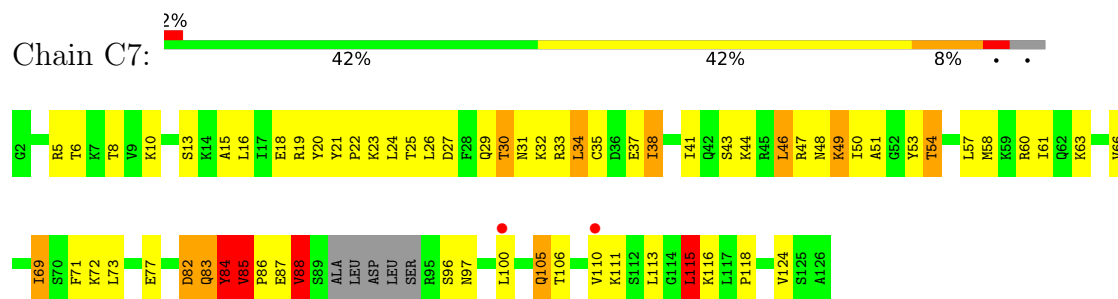




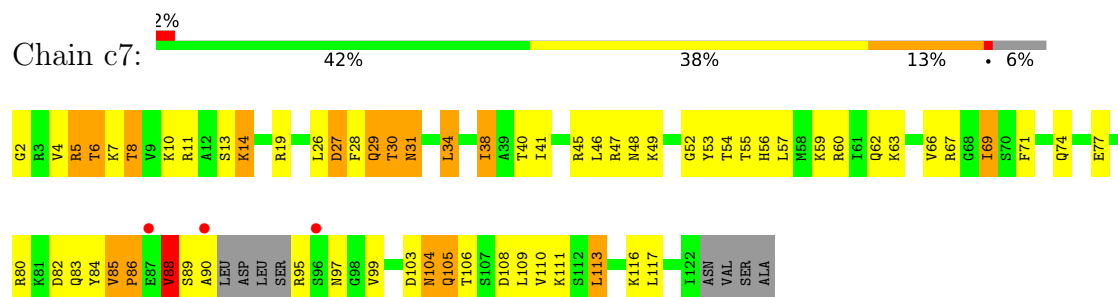
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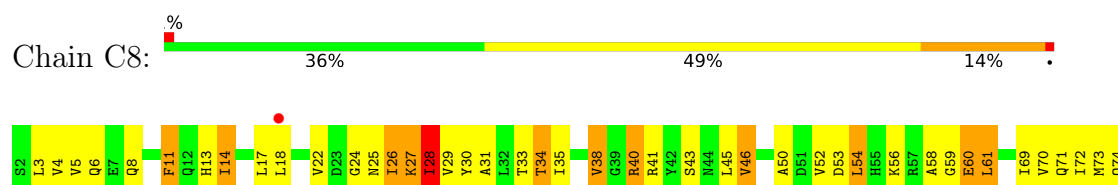
• Molecule 19: 40S ribosomal protein S17-A

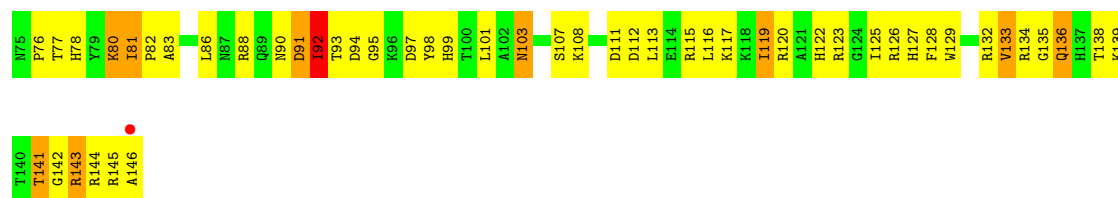


• Molecule 19: 40S ribosomal protein S17-A

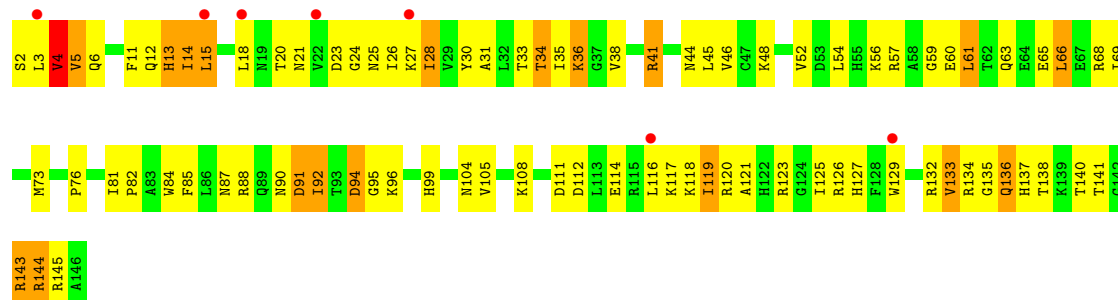
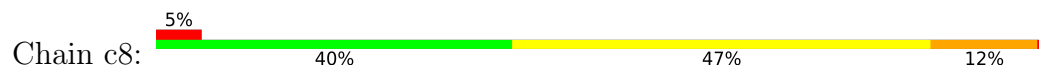


• Molecule 20: 40S ribosomal protein S18-A

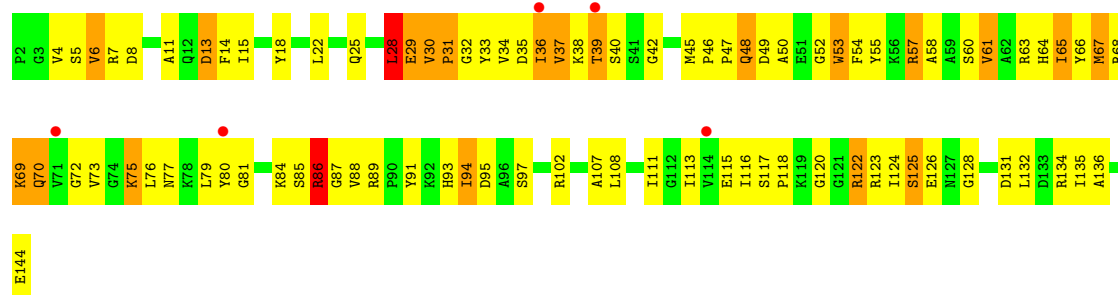




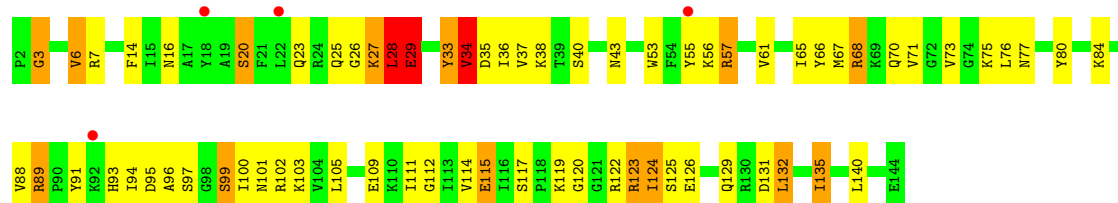
• Molecule 20: 40S ribosomal protein S18-A



• Molecule 21: 40S ribosomal protein S19-A

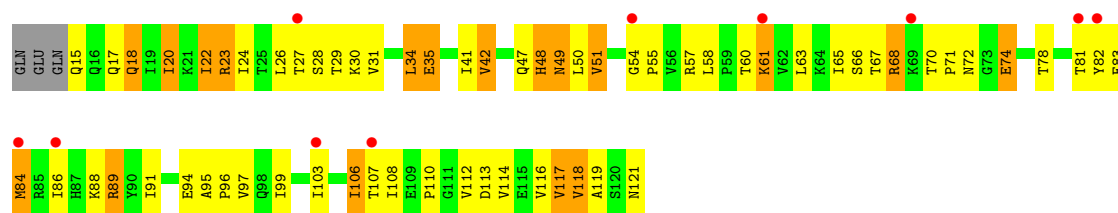


• Molecule 21: 40S ribosomal protein S19-A

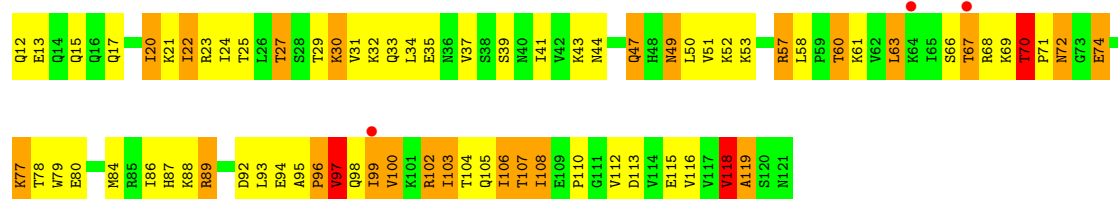


• Molecule 22: Small ribosomal subunit protein uS10

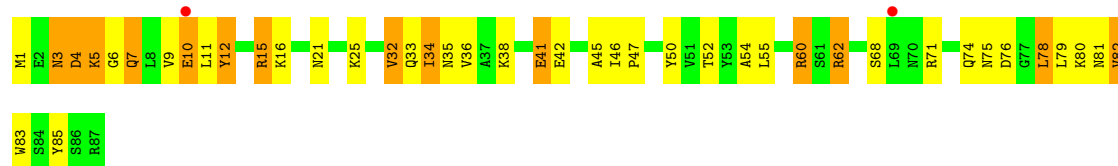




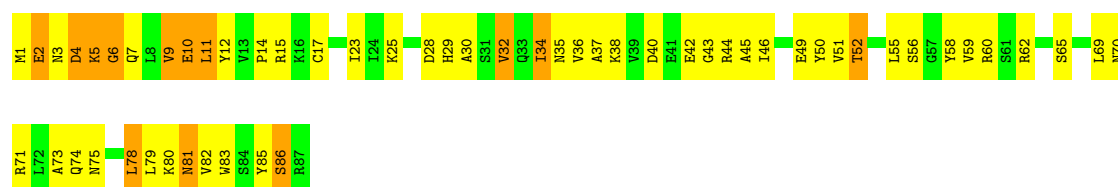
- Molecule 22: Small ribosomal subunit protein uS10



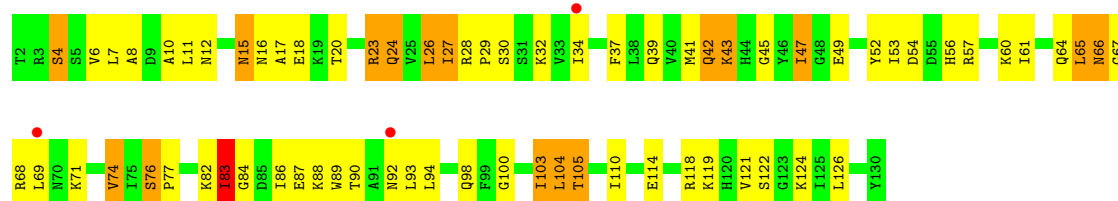
- Molecule 23: 40S ribosomal protein S21-A



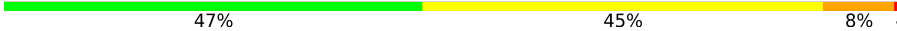
- Molecule 23: 40S ribosomal protein S21-A

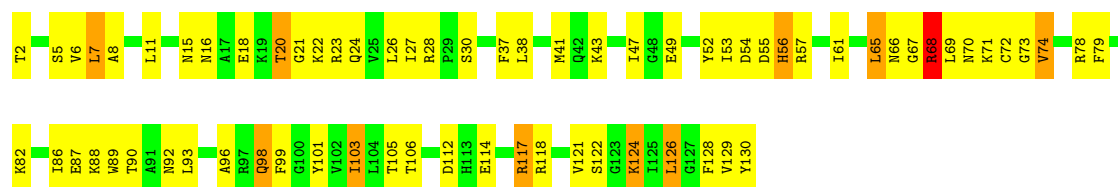


- Molecule 24: 40S ribosomal protein S22-A



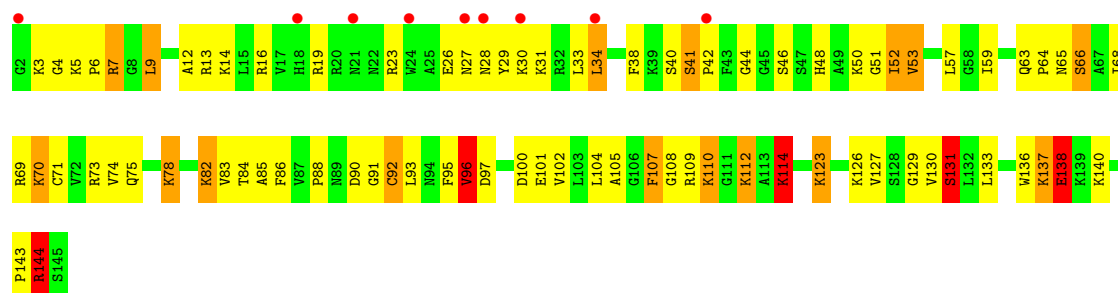
- Molecule 24: 40S ribosomal protein S22-A

Chain d2:  47% 45% 8%



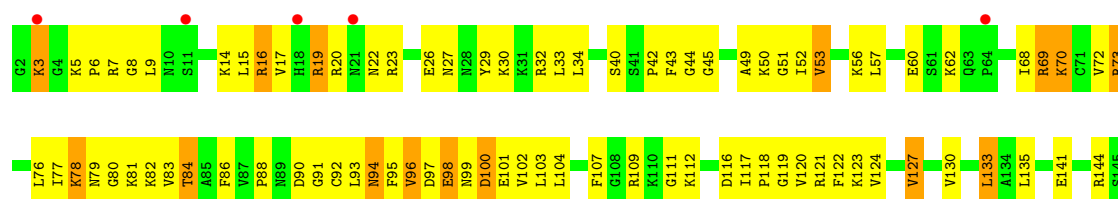
• Molecule 25: 40S ribosomal protein S23-A

Chain D3:  6% 43% 42% 11%



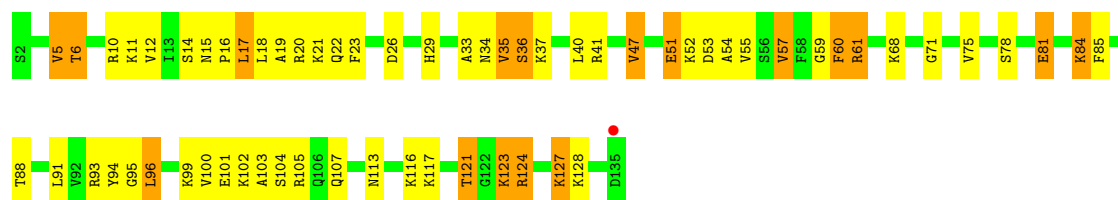
• Molecule 25: 40S ribosomal protein S23-A

Chain d3:  3% 41% 49% 10%



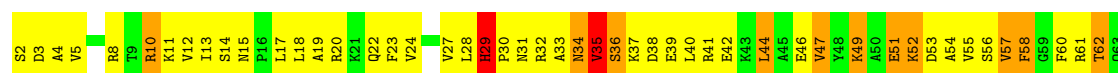
• Molecule 26: 40S ribosomal protein S24-A

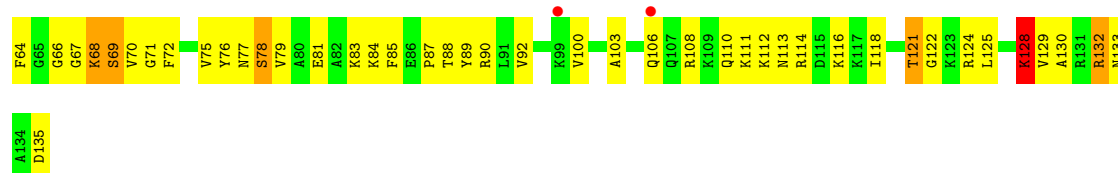
Chain D4:  53% 34% 13%



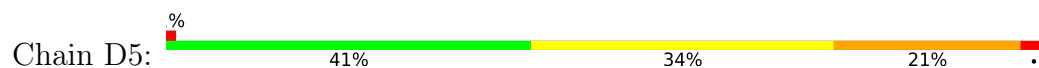
• Molecule 26: 40S ribosomal protein S24-A

Chain d4:  31% 54% 12%

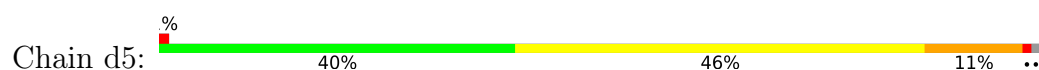




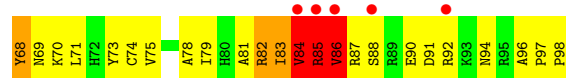
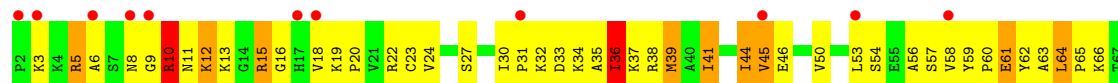
- Molecule 27: Small ribosomal subunit protein eS25A



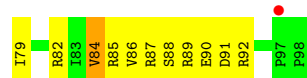
- Molecule 27: Small ribosomal subunit protein eS25A



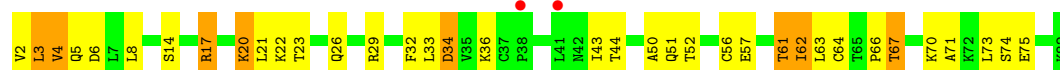
- Molecule 28: 40S ribosomal protein S26-B



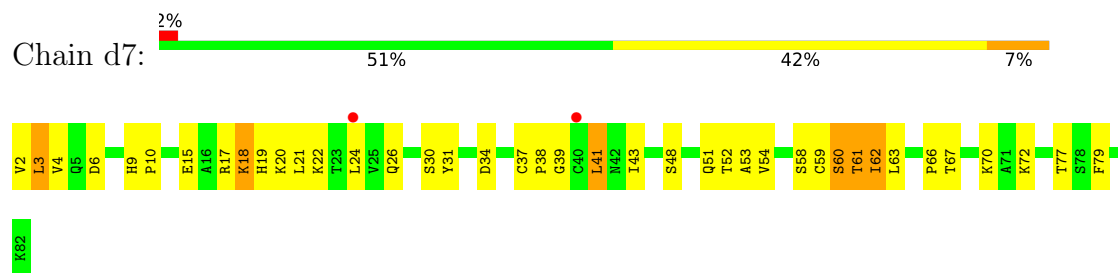
- Molecule 28: 40S ribosomal protein S26-B



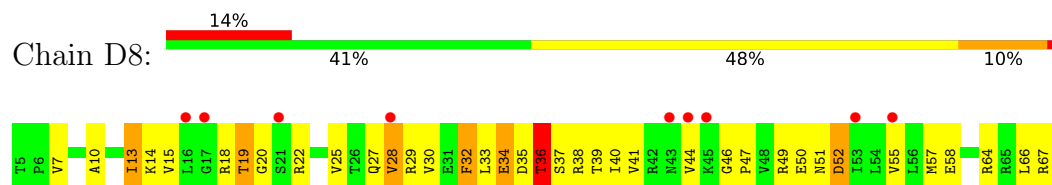
- Molecule 29: 40S ribosomal protein S27-A



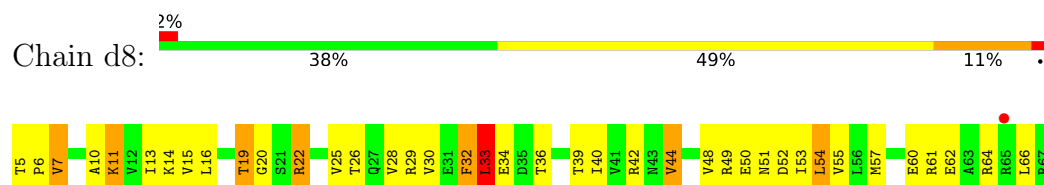
- Molecule 29: 40S ribosomal protein S27-A



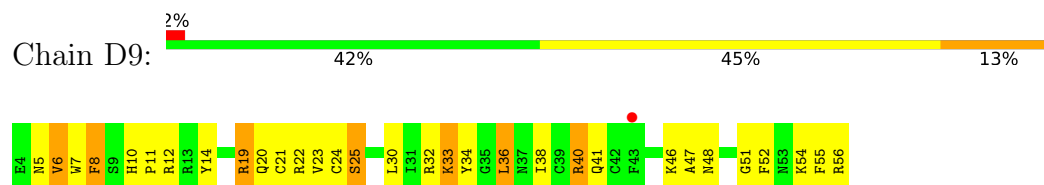
- Molecule 30: 40S ribosomal protein S28-A



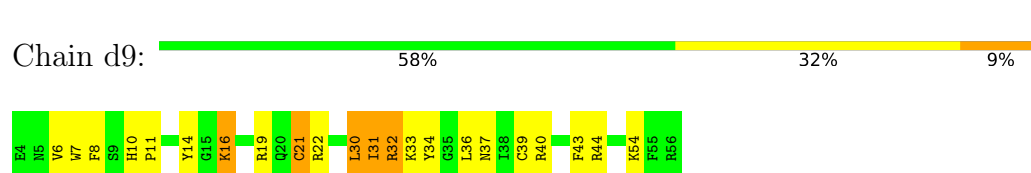
- Molecule 30: 40S ribosomal protein S28-A



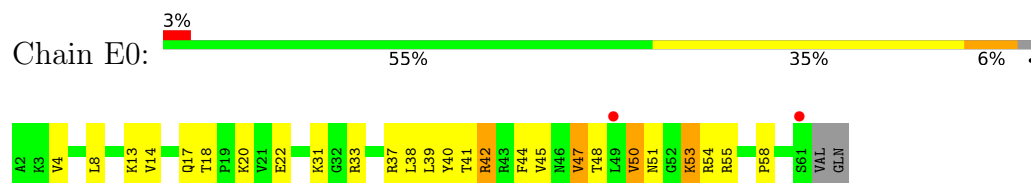
- Molecule 31: 40S ribosomal protein S29-A



- Molecule 31: 40S ribosomal protein S29-A

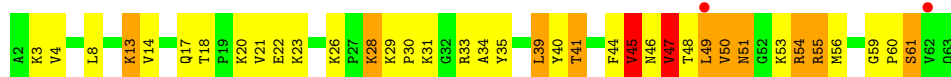


- Molecule 32: Small ribosomal subunit protein eS30A

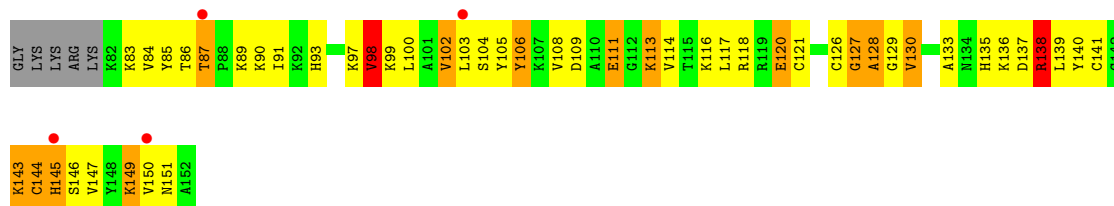


- Molecule 32: Small ribosomal subunit protein eS30A

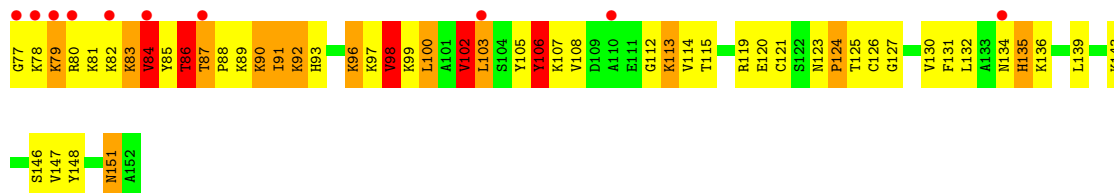




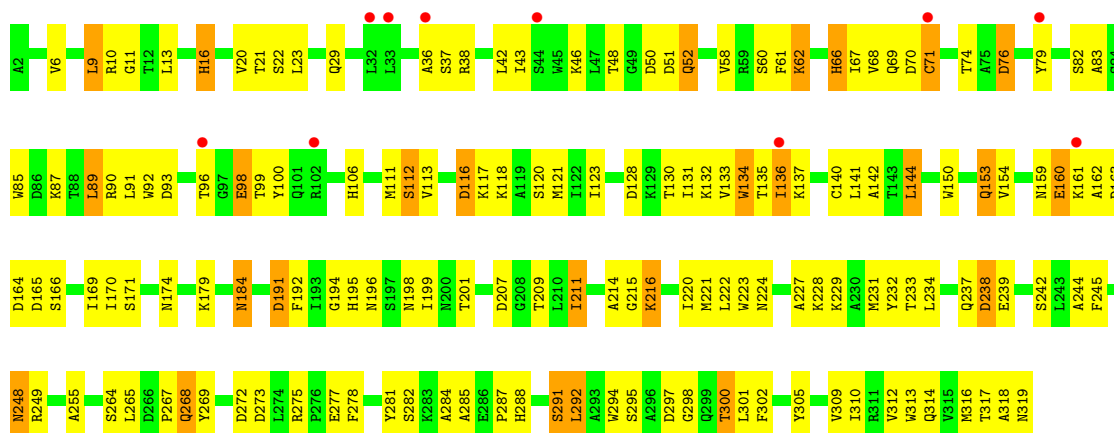
- Molecule 33: Small ribosomal subunit protein eS31



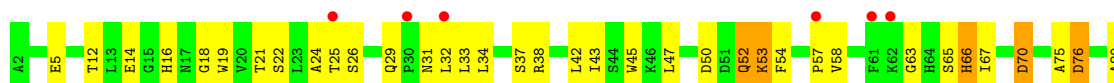
- Molecule 33: Small ribosomal subunit protein eS31

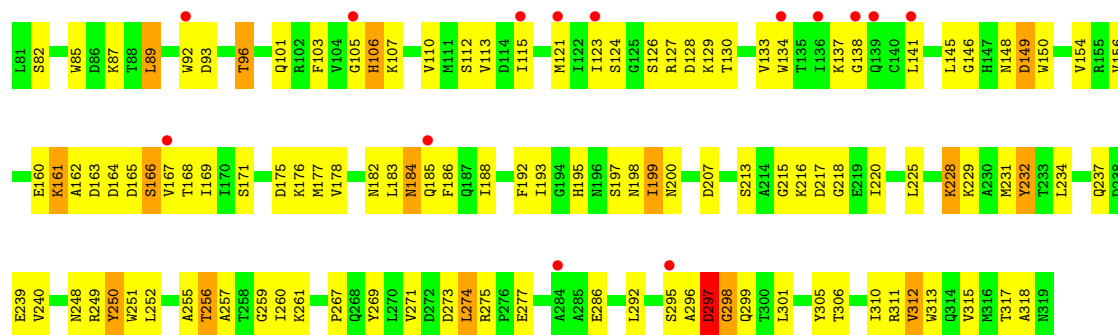


- Molecule 34: Small ribosomal subunit protein RACK1

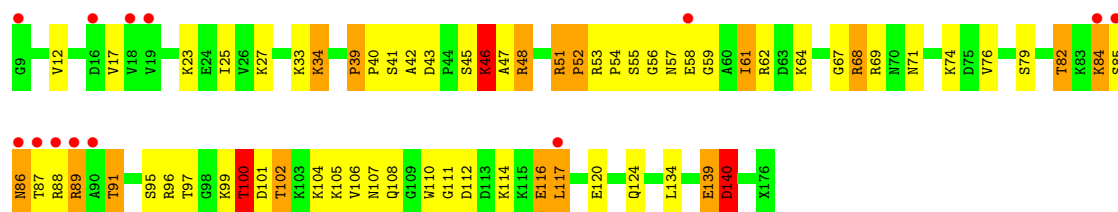


- Molecule 34: Small ribosomal subunit protein RACK1

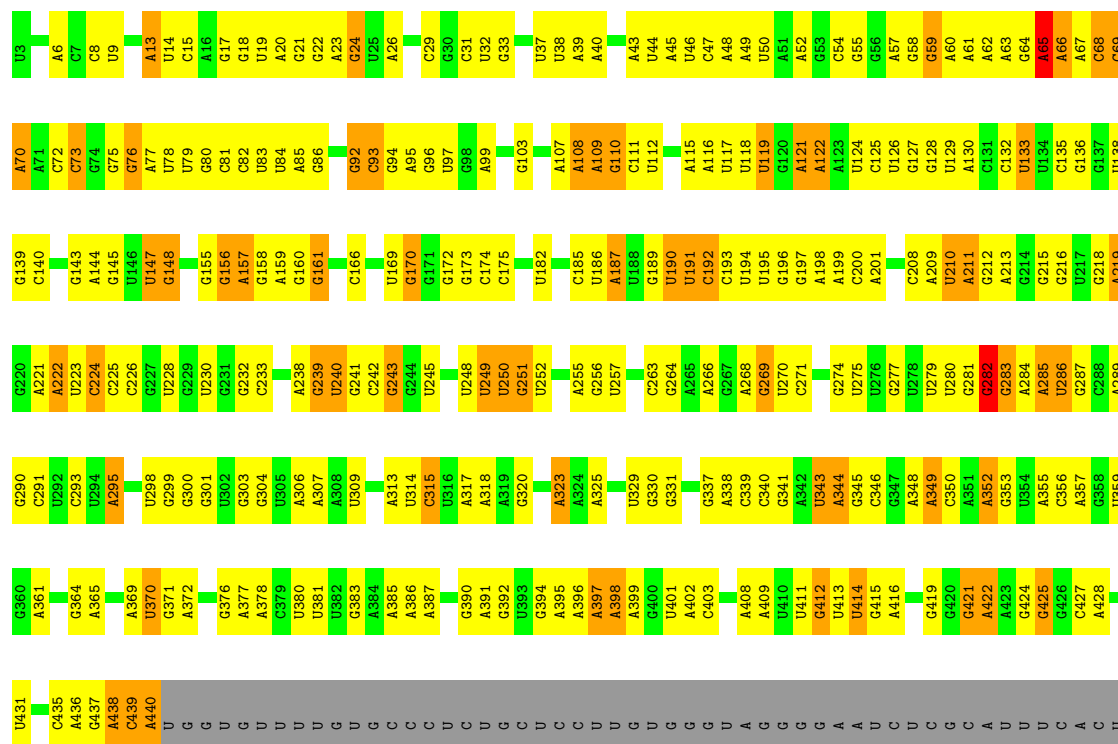




- Molecule 35: Suppressor protein STM1, Suppressor protein STM1, Suppressor protein STM1, Ribosome-bound protein Stm1

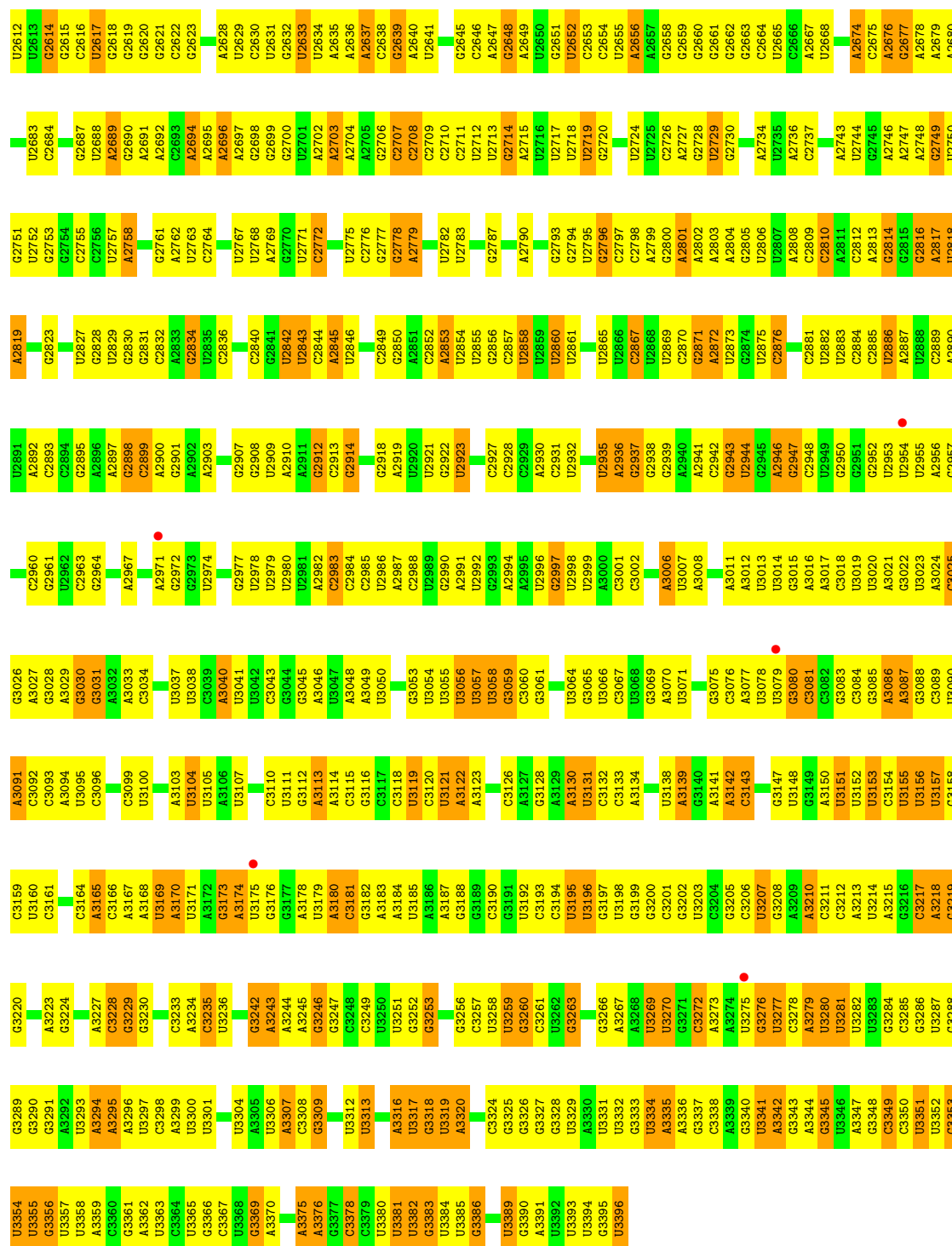


- Molecule 36: 25S ribosomal RNA



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C1502	G1429	G1357	G1294	U1220	G1142	G1072	A998	U919	A848	G779	A706	G567	G494
C1505	G1430	C1358	G1285	G1222	A1143	U1073	G999	A920	C849	A780	A709	G568	G495
A1506	G1431	C1359	A1286	G1222	G1144	U1074	G1000	A921	G	G781	G	G569	C496
G1507	C1432	C1360	A1287	A1225	G1145	A1075	G1001	U922	G854	U782	G712	A572	C497
C1508	A1433	G1361	C1292	G1226	G1148	A1079	A1002	C923	U855	A783	U713	C573	A498
A1509	G1434	A1362	U1293	G1227	G1149	A1080	A1003	G924	G856	A784	G714	U574	C499
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U1523	A1446	A1446	A1302	G1237	C1160	A1091	U1015	G937	C868	U797	G722	G514	G514
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G1525	U1448	G1382	A1304	C1239	U1162	A1093	C1017	U943	U871	G727	G727	A589	G519
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U1527	G1450	C1384	G1306	U1241	G1164	U1095	G1019	C945	C873	C803	C729	G591	A519
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C1563	G1493	A1418	G1349	A1274	U1210	U1130	A1057	U981	G838	G838	A692	U626	U558
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U1568	G1500	G	G1354	A1217	G1217	G1140	G1066	G994	G845	C702	U776	U631	G564
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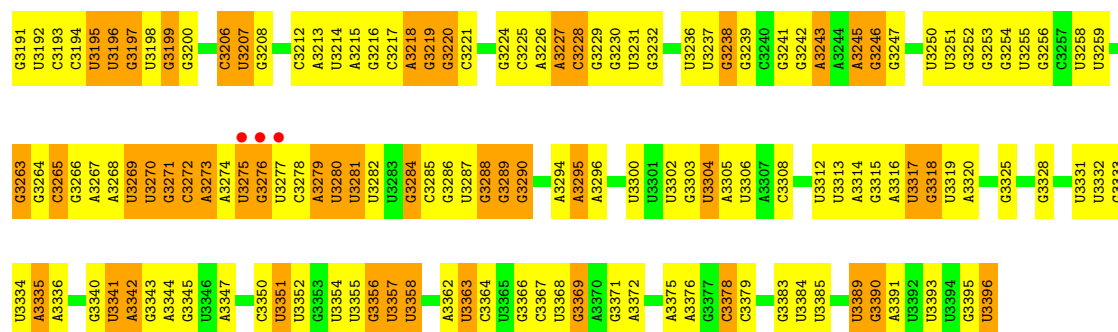




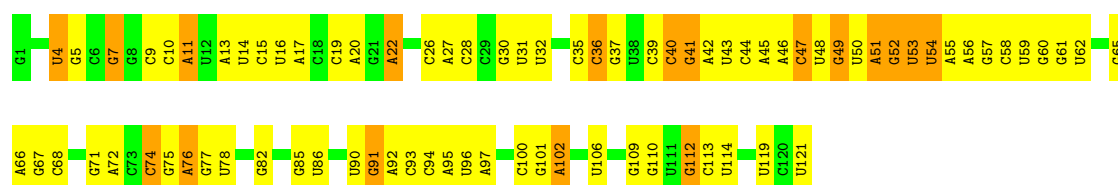
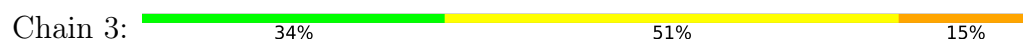
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G1072	U1004	A936	U782	G635	U563	U492	U429	A357	A284	A213	U147	C82
G1073	G1005	G937	G783	G636	G566	G493	U430	G358	A285	G214	U148	U83
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A1079	G1012	U872	A789	A645	C503	C503	A440	A365	C291	A221	U154	A89
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U1081	U1014	U874	A716	A647	U581	G505	U442	A367	U223	U223	G156	G91
U1082	U1015	G875	G717	G648	U582	U506	G443	G368	U294	C224	A157	G92
G1083	C1016	A876	G718	C649	C583	U507	U	A369	A295	G222	G158	C93
A1084	C1017	U879	G719	A649	C584	U508	G	U370	A296	U230	C163	G94
A1085	G1018	G798	A720	C650	U509	U509	U	G371	G297	U231	C164	A95
C1086	G1019	U879	A721	C651	A585	G510	U	A372	G298	G223	A164	G96
A1093	G1020	A883	A801	G652	A586	G511	U	A373	U302	A235	A165	U97
U1094	G1021	A884	C802	A653	U587	G512	U	A374	G303	G236	C166	G98
U1095	G1022	G887	C803	C654	C588	G513	U	A375	G304	G237	U167	A99
U1096	G1023	A888	G805	C655	A589	G514	G	A376	U305	A238	U168	A100
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G1101	C1032	C893	U811	G662	C595	A521	U	U381	G244	G244	C174	G110
A1102	A1033	G894	G812	C663	C596	A522	C	U382	U245	G251	C175	C111
A1103	U1034	A895	G813	C664	C597	A523	C	U383	U246	G252	G176	U112
G1104	U1035	A896	G814	A665	A598	A524	G	U384	A253	U253	G177	C113
U1109	G1036	U897	A815	A666	C599	A525	U	U385	A254	G254	U177	A114
U1110	A1037	G900	A816	G667	C600	U526	U	U386	U255	A255	U181	A115
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U1112	U1039	G902	U821	C669	A602	G530	C	U388	G257	U257	U183	A117
U1113	A1040	G903	U822	A670	A603	A531	C	U389	U258	G258	U184	U118
G1114	U1041	G904	G823	C670	G604	A532	U	U390	A259	A259	C185	U119
G1115	U1042	A906	C824	G671	A607	A533	G	G394	U328	A254	U186	G120
G1116	C1043	G907	U825	G672	A608	U534	U	A395	U329	A255	A187	A121
G1117	U1044	G908	G826	A673	A609	U535	U	A396	G330	G255	U188	A122
C1118	A1045	C911	G827	C674	G609	G536	G	A397	C259	C259	U189	A123
U1121	U1046	G912	A830	C675	G610	U537	G	A398	C260	C260	U190	U124
U1122	A1047	A913	G831	C758	A611	C539	U	A399	U261	U261	U191	C125
A1129	A1048	A914	G832	C759	A612	U540	A	G400	U262	U262	C192	U126
G1130	C1049	A915	G833	G760	U613	U541	G	U401	C263	C263	C193	G127
G1131	U1050	G916	A837	C761	G614	G542	G	A402	G264	G264	U194	G128
C1132	A1055	C918	C839	U682	U615	C546	G	C403	A265	A265	U195	U129
U1138	U1056	U919	G844	C683	A621	C547	A	U405	A266	A266	G197	A130
G1139	A1057	A920	G845	U684	A622	C548	U	G406	G267	G267	C198	C132
G1140	U1058	A921	A847	G685	A623	U549	C	A407	A268	A268	A199	U133
C1141	G1059	U922	A848	C686	U624	A550	U	A408	U270	U270	U134	U134
G1145	A1061	C923	A849	A691	G625	A551	U	A409	C271	C271	C135	C135
A1062	U1062	U924	C851	U698	U626	G552	C	U410	G272	G272	G136	G136
G1063	A1063	A926	U852	C700	U627	U555	G	U411	A273	A273	G137	G137
A1064	A1064	C927	G853	G701	A628	U556	C	U412	G274	G274	U138	U138
A1065	G1065	C928	G854	C702	U629	A557	U	U413	A204	A204	C205	G139
G1152	G1066	A929	G855	G703	A630	U558	U	G419	G206	G206	U207	C
					U631	A559	U	G420	C208	C208	C208	G142
					G632	G560	C	G421	A209	A209	U210	A144



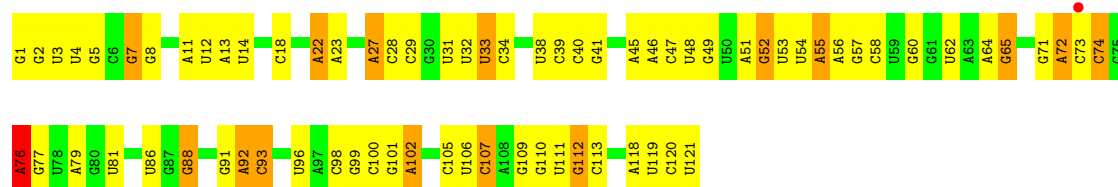
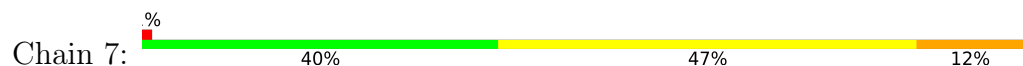




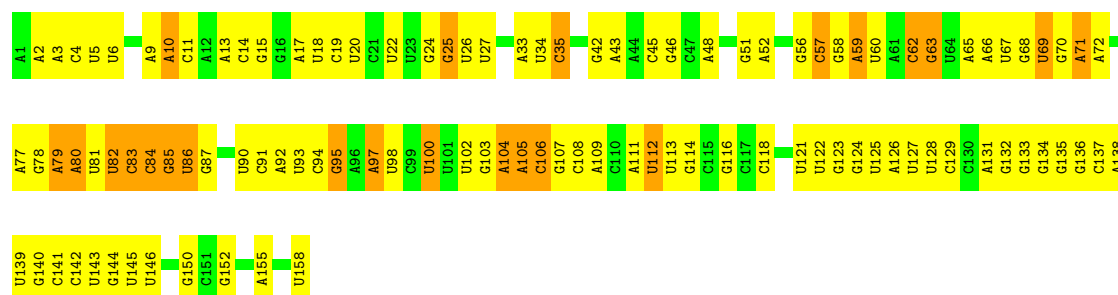
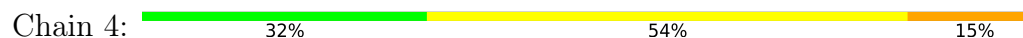
• Molecule 37: 5S ribosomal RNA



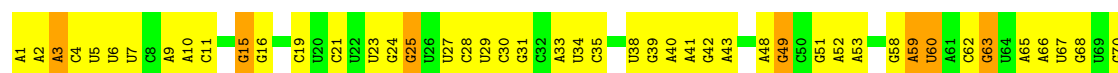
• Molecule 37: 5S ribosomal RNA

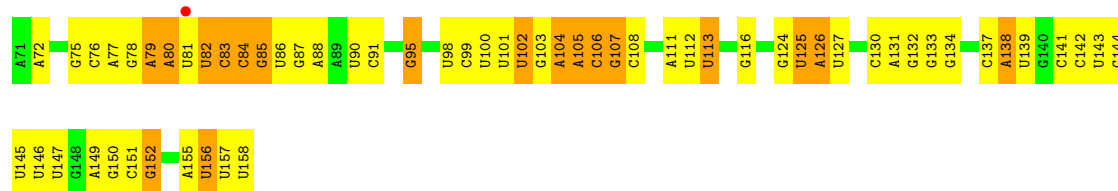


• Molecule 38: 5.8S ribosomal RNA

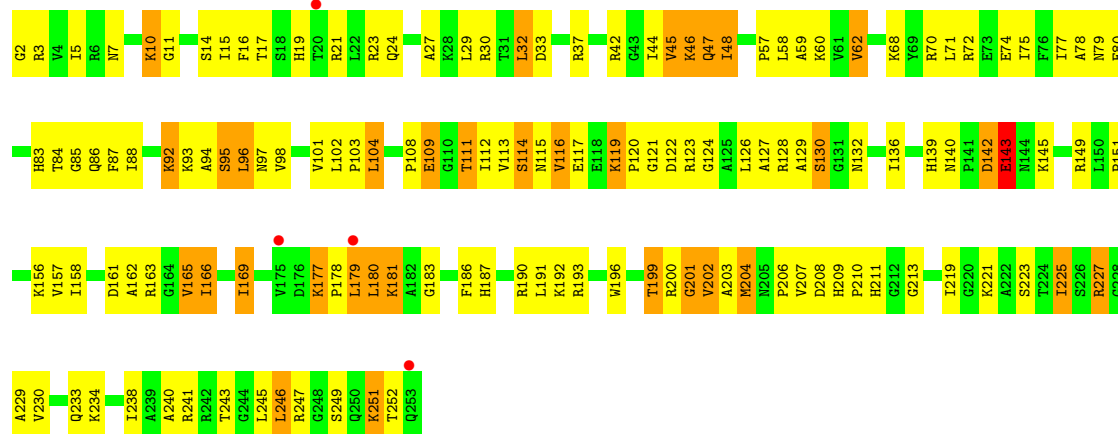


• Molecule 38: 5.8S ribosomal RNA

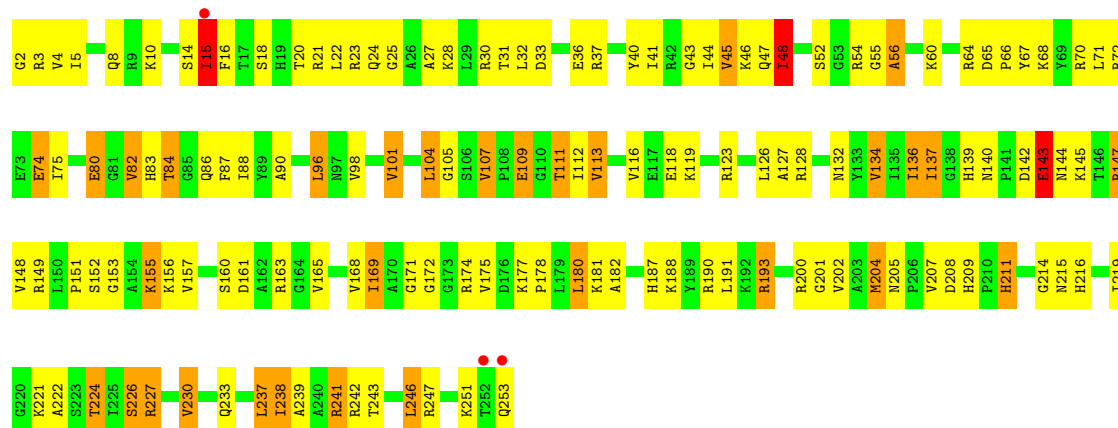
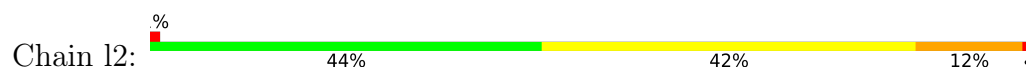




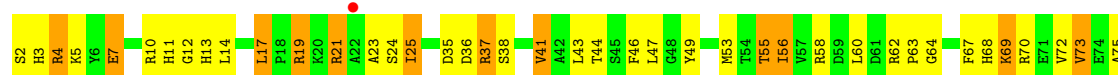
• Molecule 39: 60S ribosomal protein L2-A

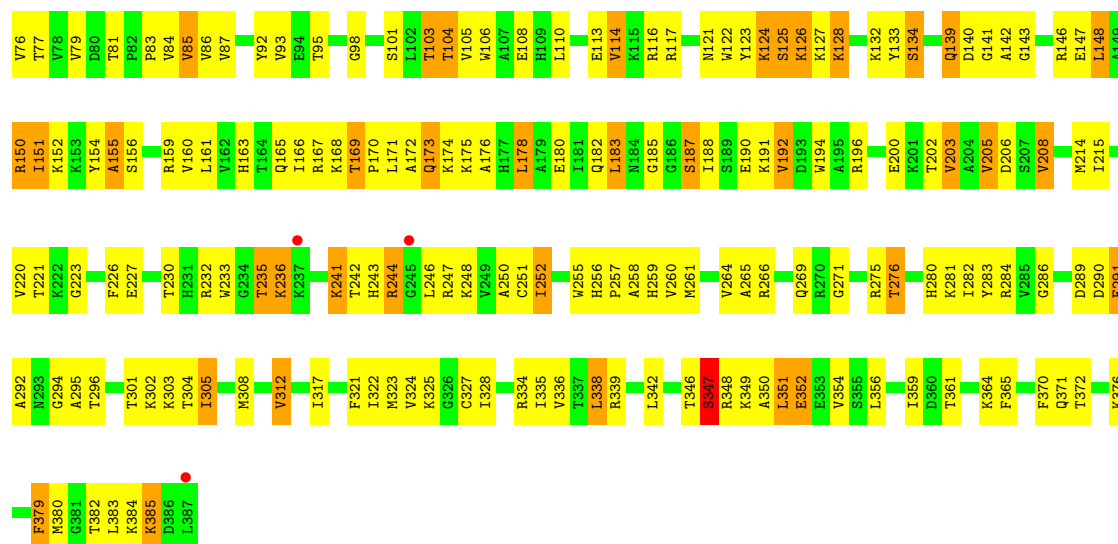


• Molecule 39: 60S ribosomal protein L2-A

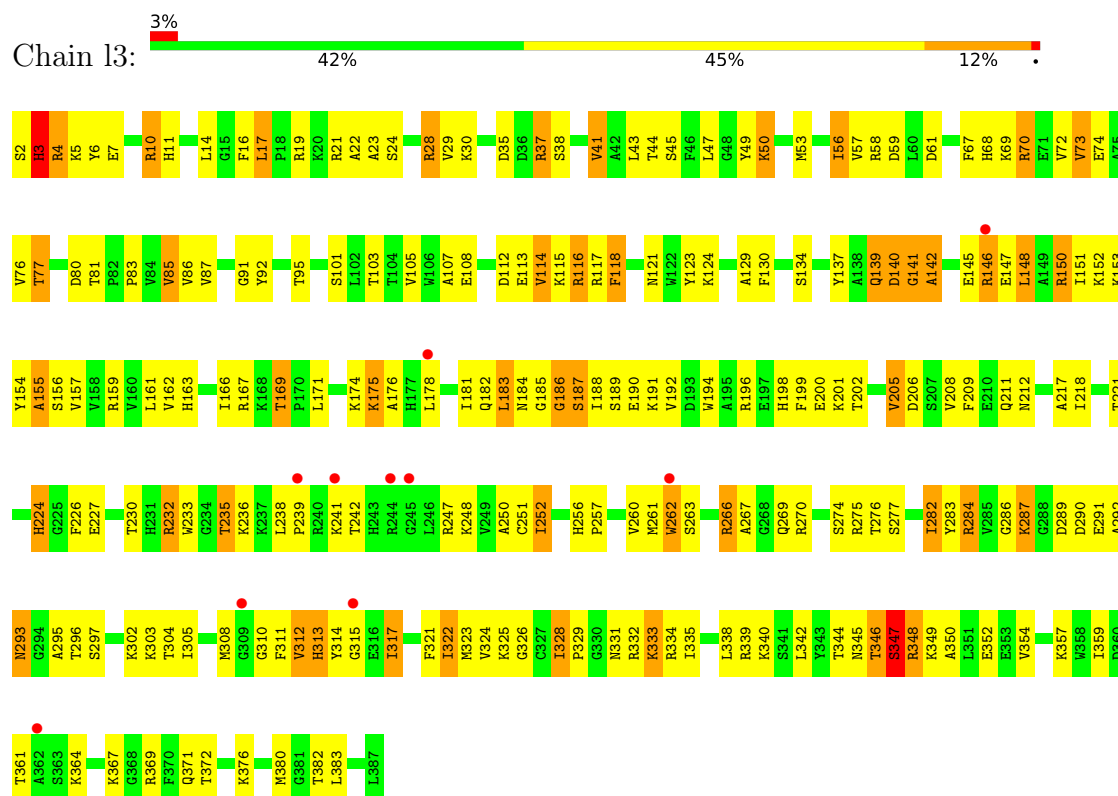


• Molecule 40: 60S ribosomal protein L3

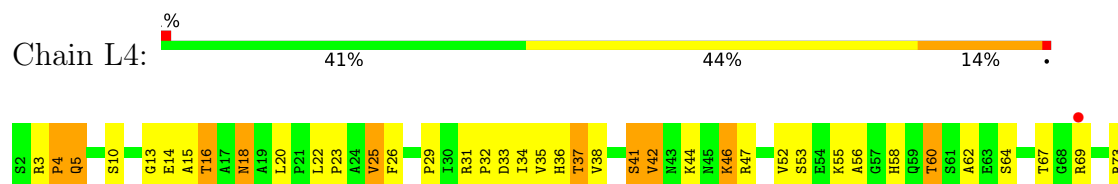


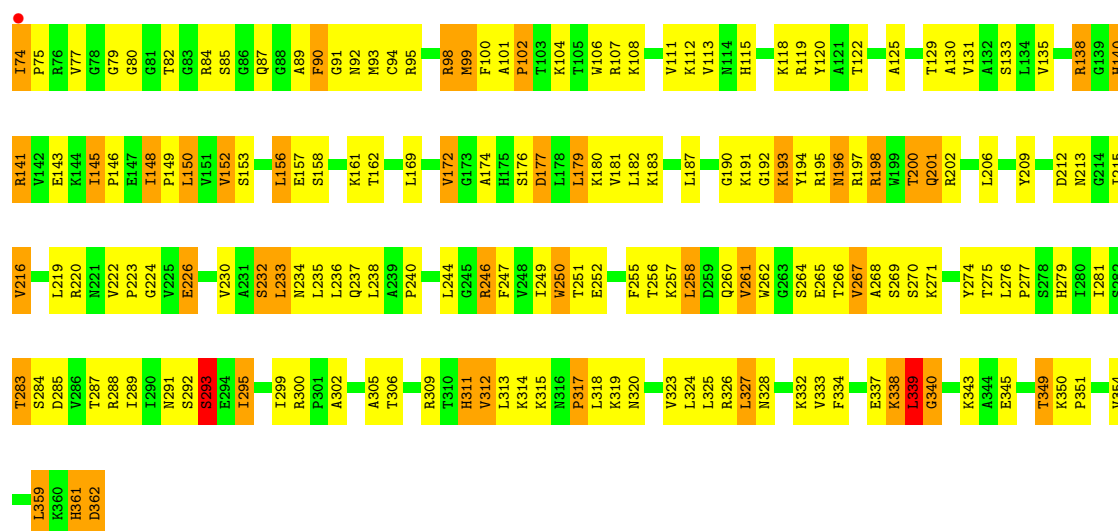


• Molecule 40: 60S ribosomal protein L3



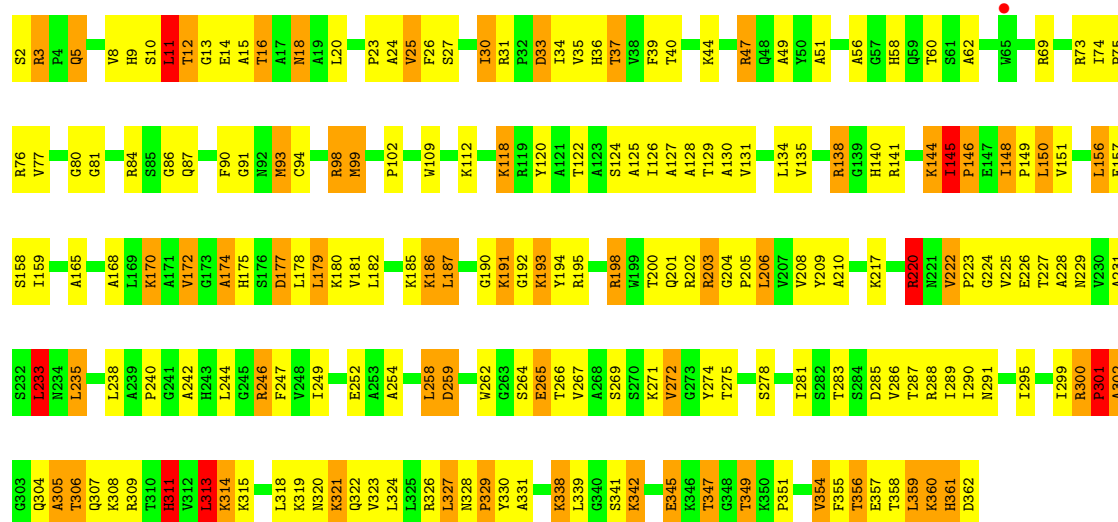
• Molecule 41: 60S ribosomal protein L4-A





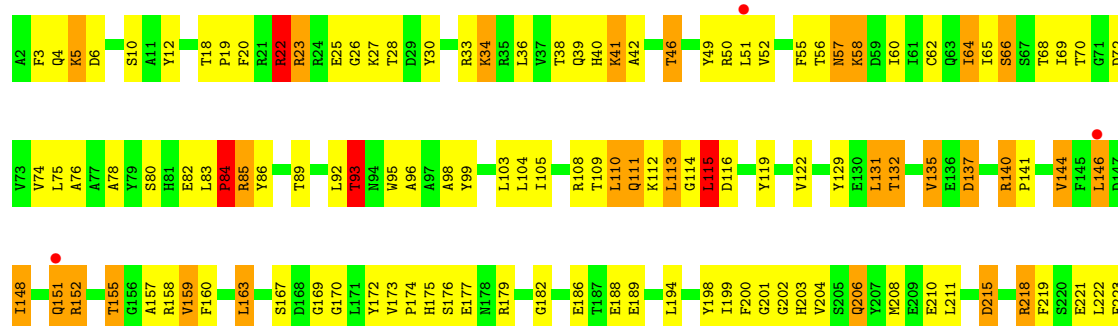
• Molecule 41: 60S ribosomal protein L4-A

Chain 14: 43% 39% 16%



• Molecule 42: 60S ribosomal protein L5

Chain L5: 46% 41% 12%





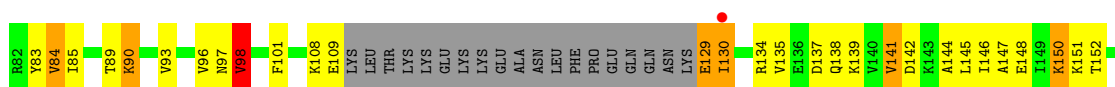
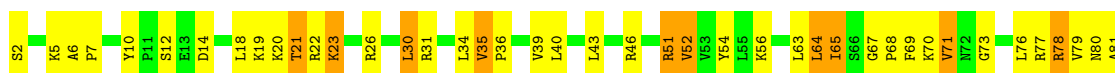
- Molecule 42: 60S ribosomal protein L5

Chain L5: 46% 41% 11% ..



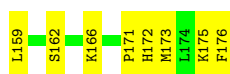
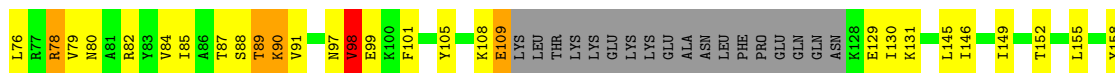
- Molecule 43: Large ribosomal subunit protein eL6A

Chain L6: % 42% 37% 9% • 11%



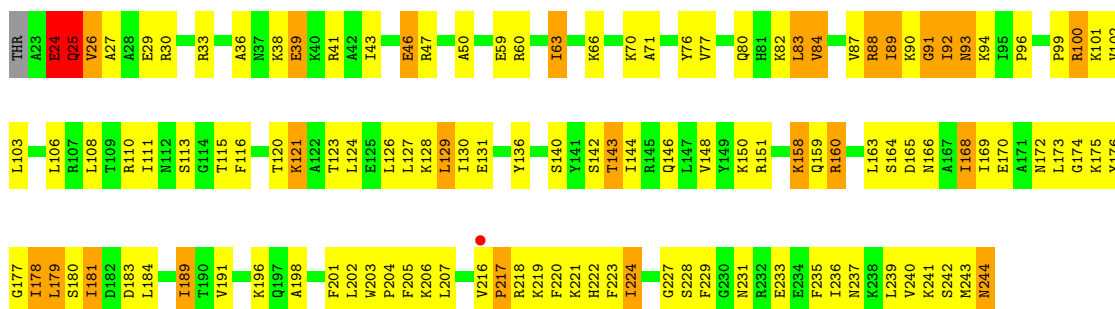
- Molecule 43: Large ribosomal subunit protein eL6A

Chain L6: 45% 39% 6% • 10%

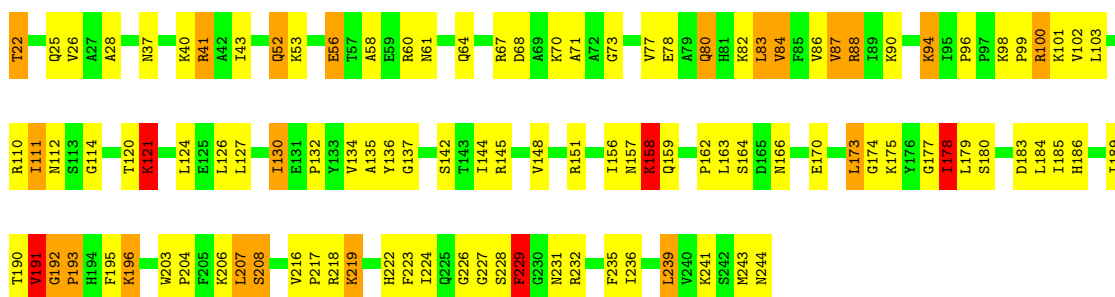


- Molecule 44: Large ribosomal subunit protein uL30A

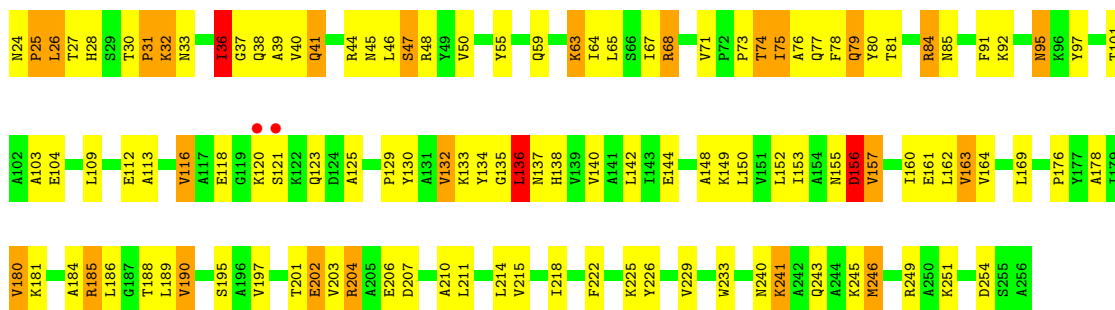
Chain L7: 44% 43% 11% •



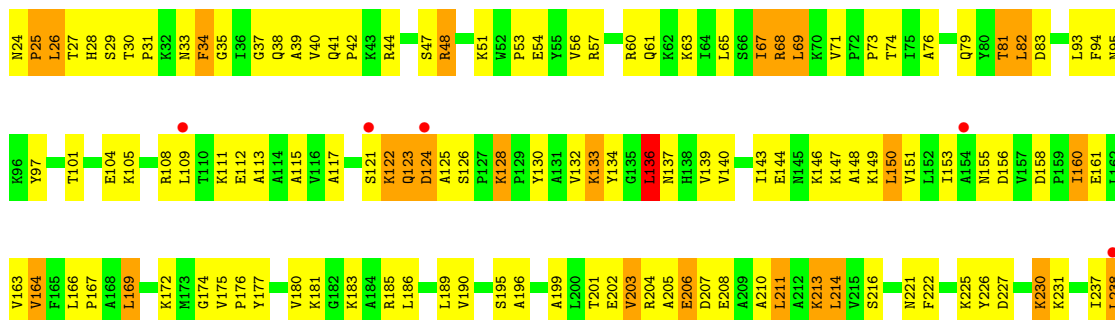
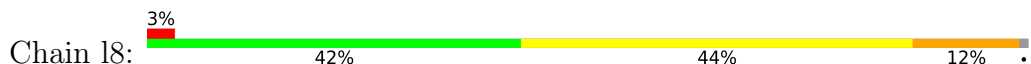
- Molecule 44: Large ribosomal subunit protein uL30A



- Molecule 45: 60S ribosomal protein L8-A

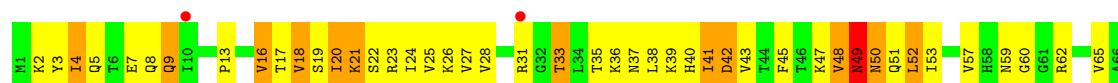


- Molecule 45: 60S ribosomal protein L8-A

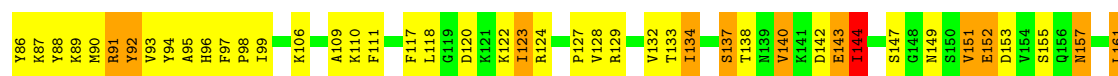




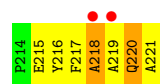
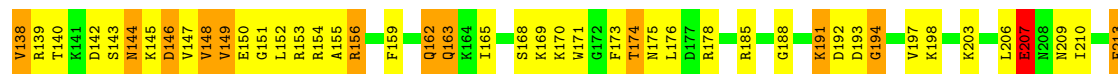
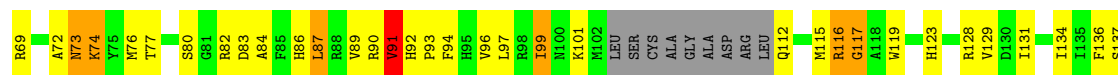
• Molecule 46: 60S ribosomal protein L9-A



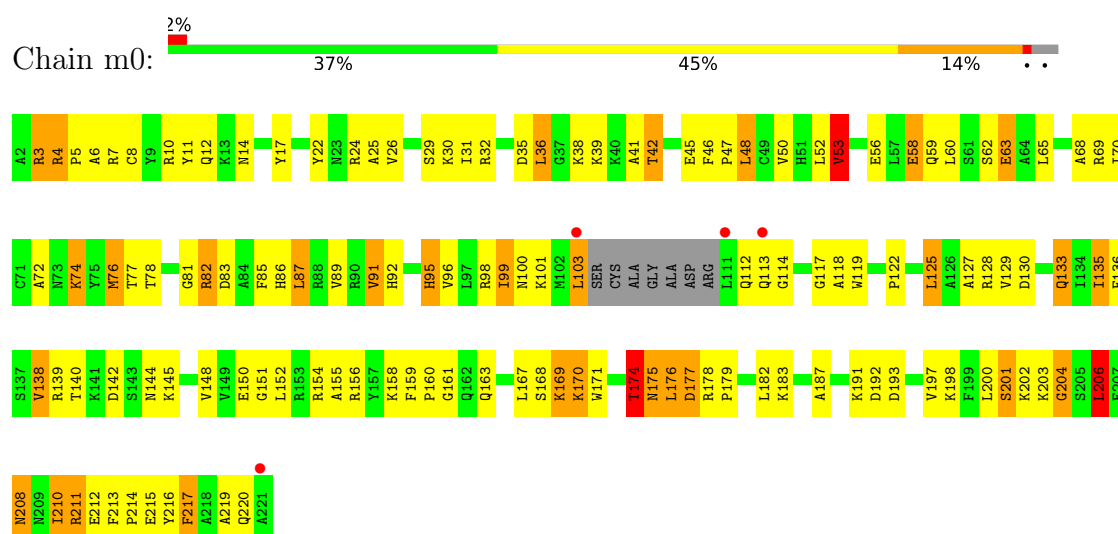
• Molecule 46: 60S ribosomal protein L9-A



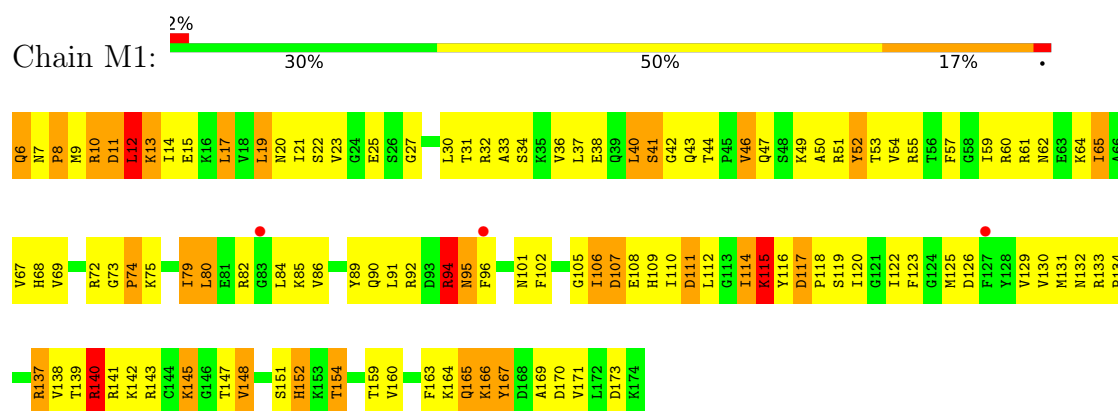
• Molecule 47: 60S ribosomal protein L10



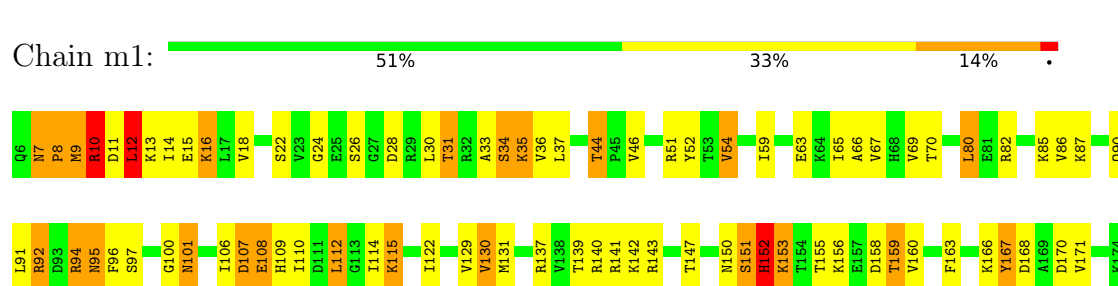
• Molecule 47: 60S ribosomal protein L10



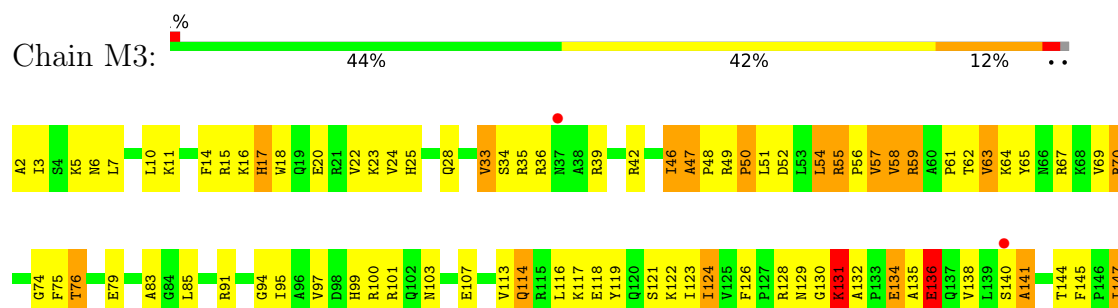
• Molecule 48: 60S ribosomal protein L11-B

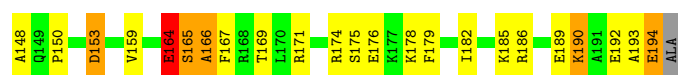


• Molecule 48: 60S ribosomal protein L11-B

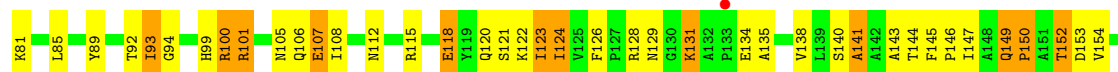


• Molecule 49: Large ribosomal subunit protein eL13A

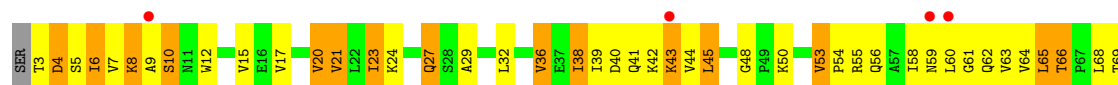




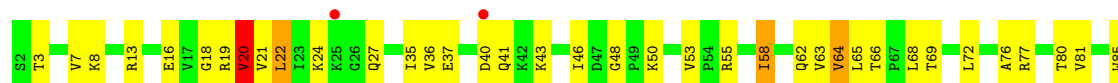
- Molecule 49: Large ribosomal subunit protein eL13A



- Molecule 50: Large ribosomal subunit protein eL14A



- Molecule 50: Large ribosomal subunit protein eL14A

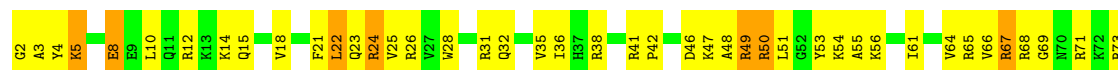
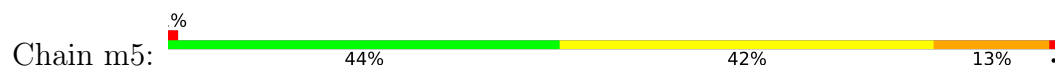


- Molecule 51: 60S ribosomal protein L15-A





• Molecule 51: 60S ribosomal protein L15-A



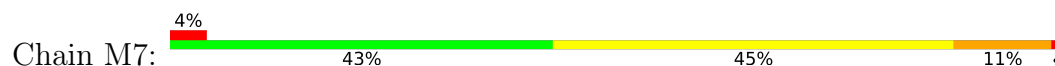
• Molecule 52: 60S ribosomal protein L16-A

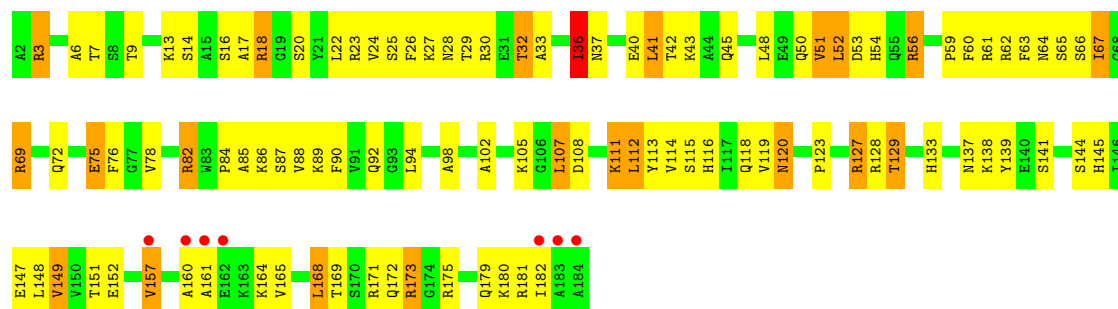


• Molecule 52: 60S ribosomal protein L16-A

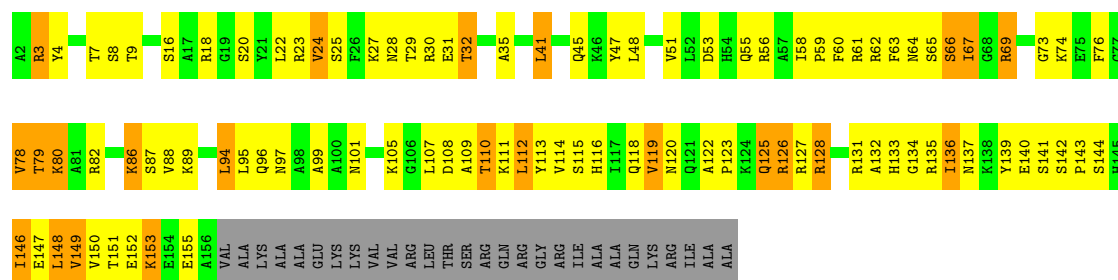


• Molecule 53: 60S ribosomal protein L17-A

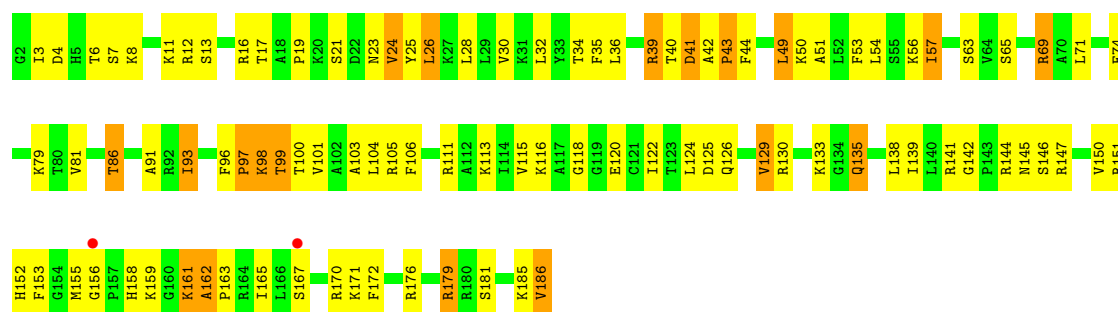




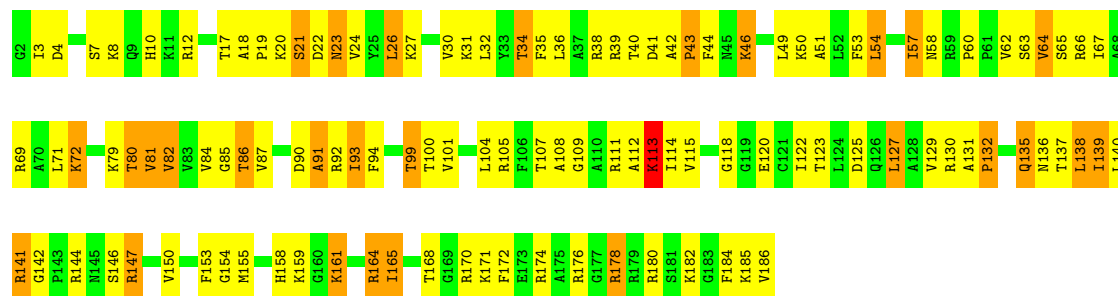
• Molecule 53: 60S ribosomal protein L17-A



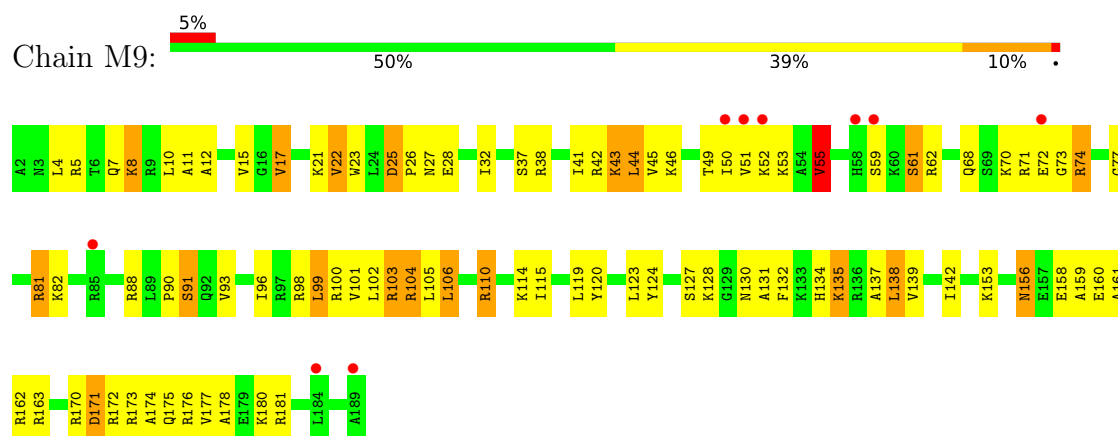
• Molecule 54: 60S ribosomal protein L18-A



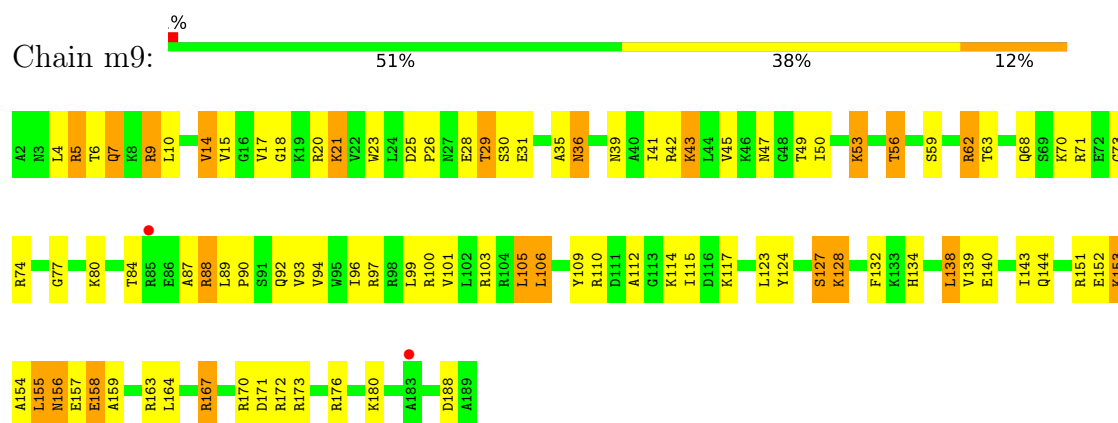
• Molecule 54: 60S ribosomal protein L18-A



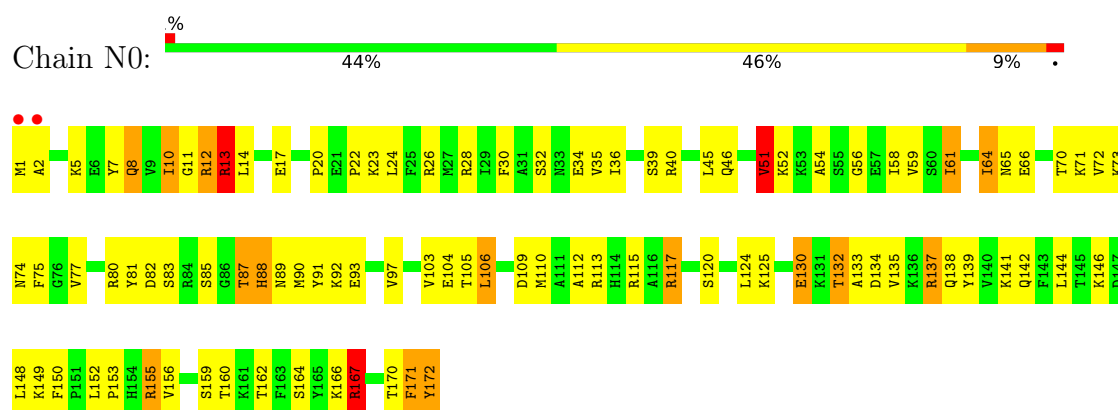
- Molecule 55: 60S ribosomal protein L19-A



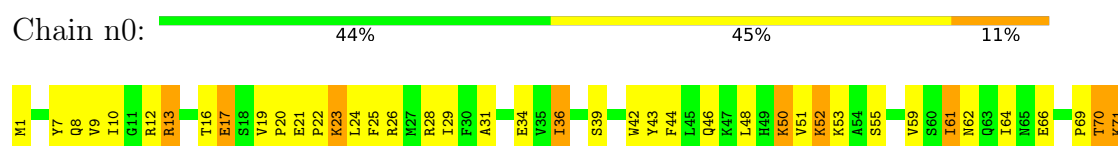
- Molecule 55: 60S ribosomal protein L19-A

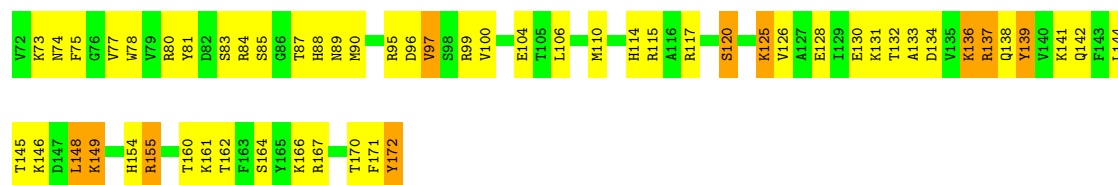


- Molecule 56: 60S ribosomal protein L20-A

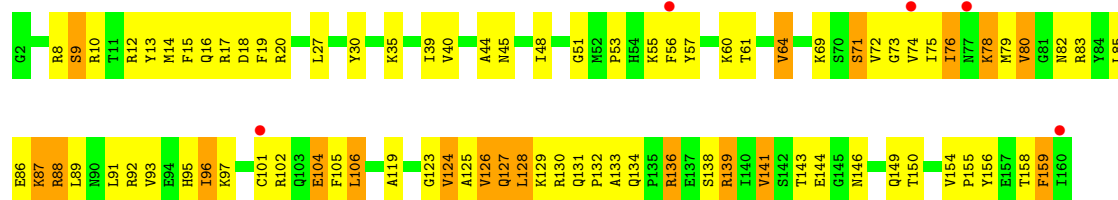


- Molecule 56: 60S ribosomal protein L20-A

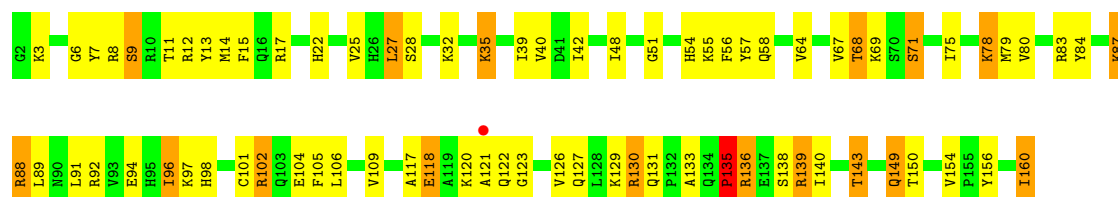




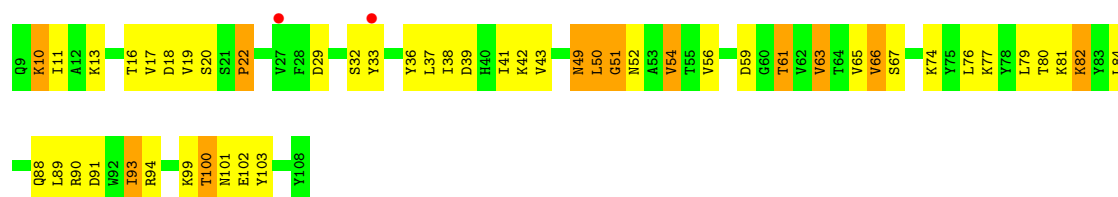
• Molecule 57: 60S ribosomal protein L21-A



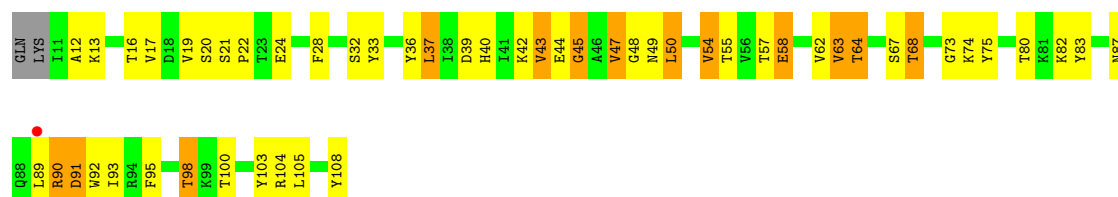
• Molecule 57: 60S ribosomal protein L21-A



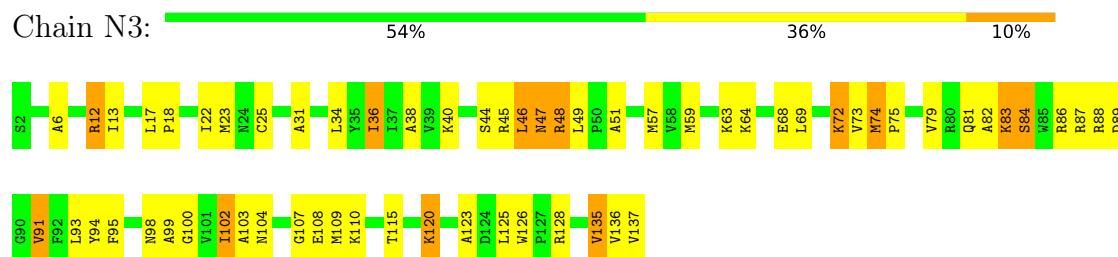
• Molecule 58: 60S ribosomal protein L22-A



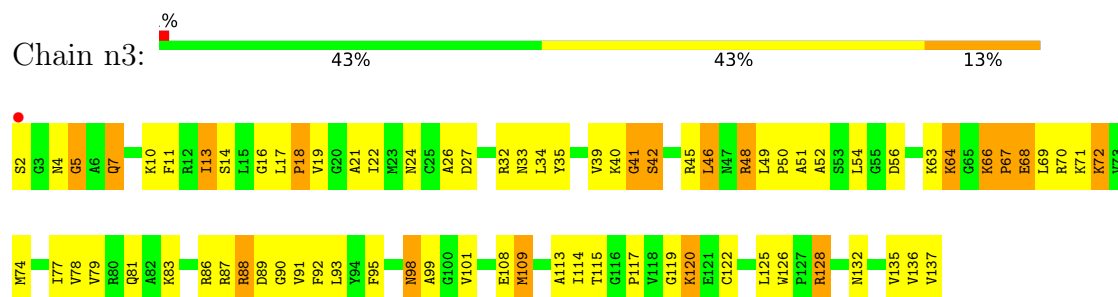
• Molecule 58: 60S ribosomal protein L22-A



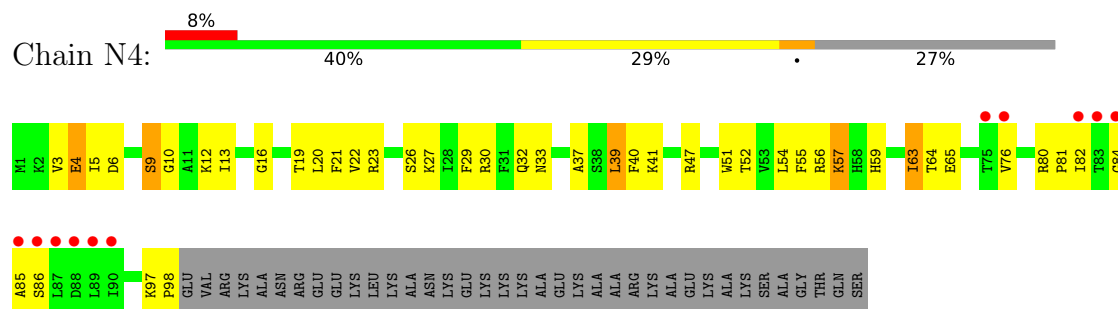
• Molecule 59: 60S ribosomal protein L23-A



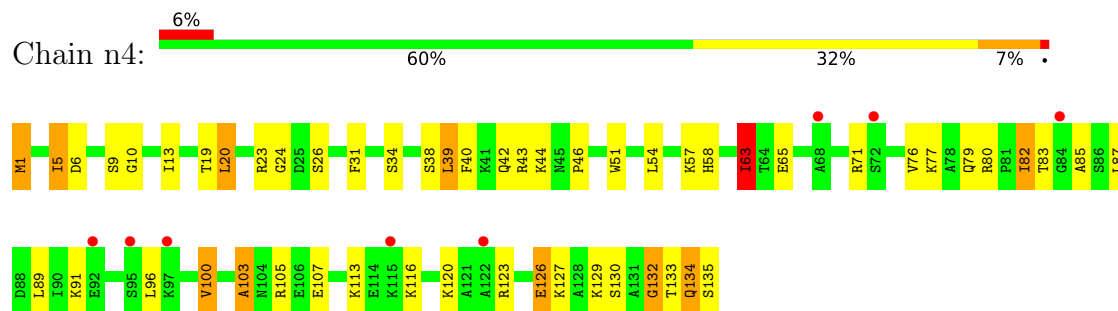
- Molecule 59: 60S ribosomal protein L23-A



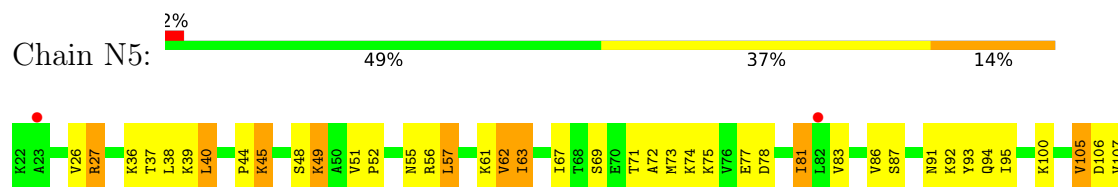
- Molecule 60: Large ribosomal subunit protein eL24A



- Molecule 60: Large ribosomal subunit protein eL24A



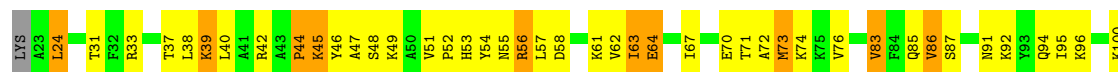
- Molecule 61: 60S ribosomal protein L25





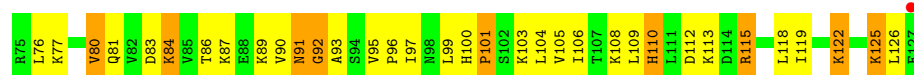
- Molecule 61: 60S ribosomal protein L25

Chain n5: 43% 42% 14%



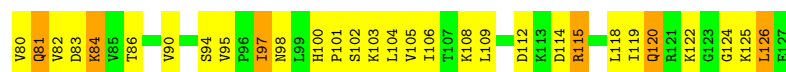
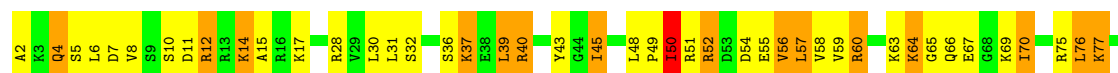
- Molecule 62: Large ribosomal subunit protein uL24A

Chain N6: 40% 47% 13%



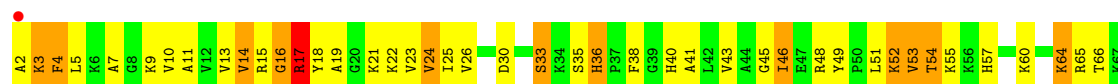
- Molecule 62: Large ribosomal subunit protein uL24A

Chain n6: 41% 41% 17%



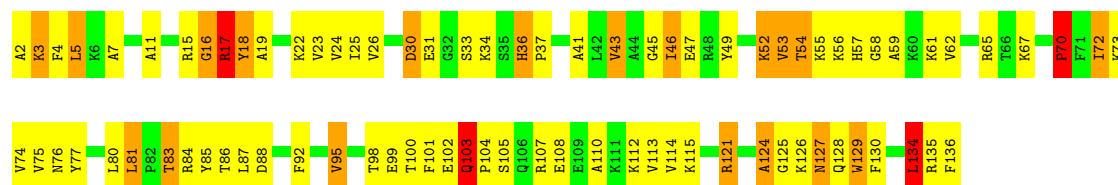
- Molecule 63: 60S ribosomal protein L27-A

Chain N7: 41% 45% 13%

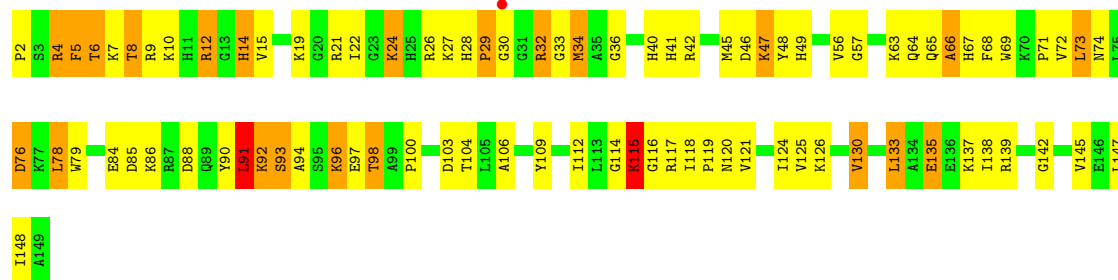
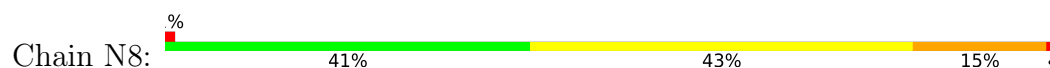


- Molecule 63: 60S ribosomal protein L27-A

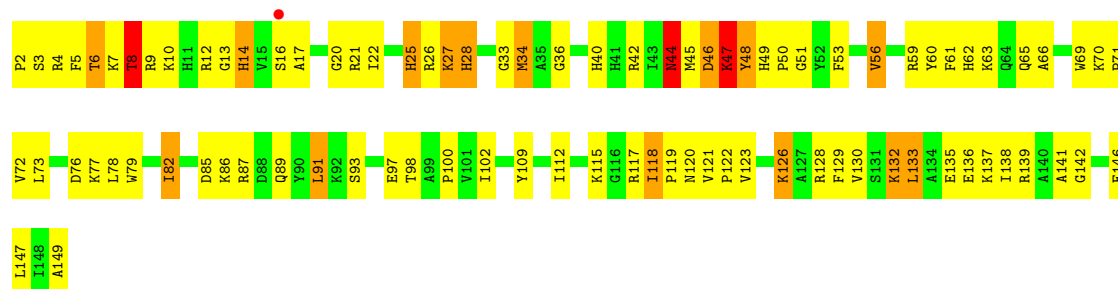
Chain n7: 39% 44% 14%



- Molecule 64: 60S ribosomal protein L28



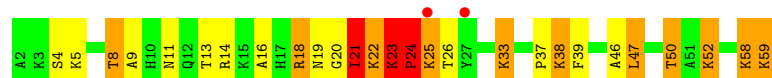
- Molecule 64: 60S ribosomal protein L28



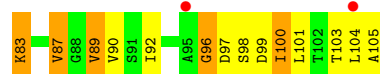
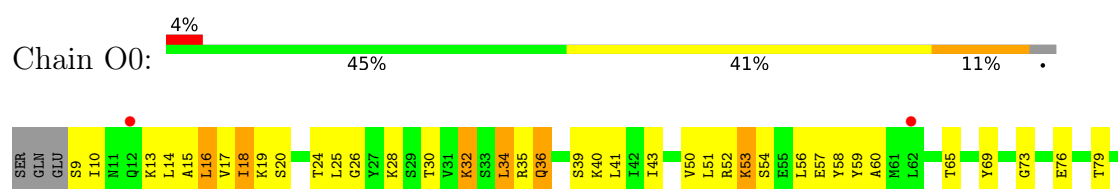
- Molecule 65: 60S ribosomal protein L29



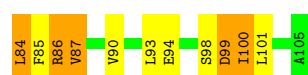
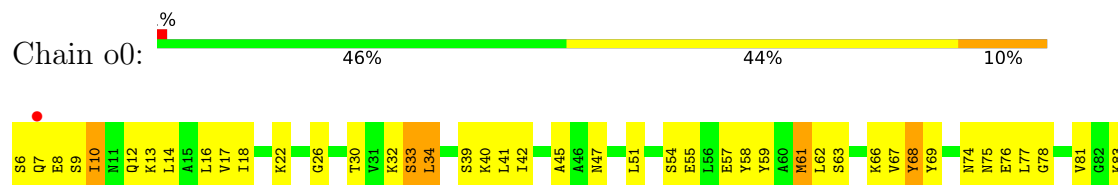
- Molecule 65: 60S ribosomal protein L29



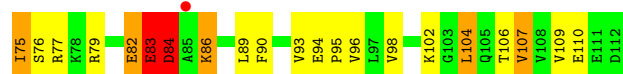
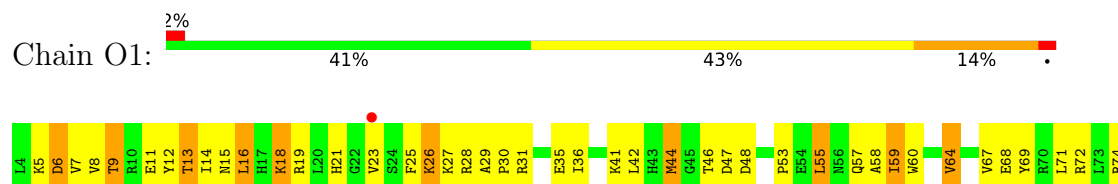
- Molecule 66: Large ribosomal subunit protein eL30



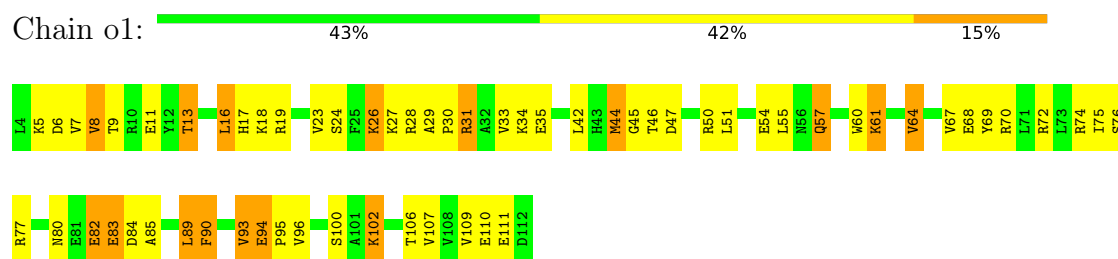
- Molecule 66: Large ribosomal subunit protein eL30



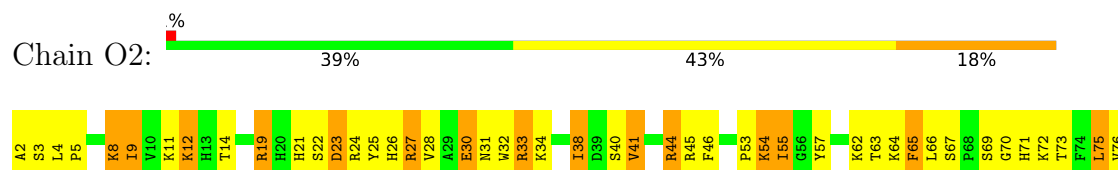
- Molecule 67: 60S ribosomal protein L31-A



- Molecule 67: 60S ribosomal protein L31-A



- Molecule 68: 60S ribosomal protein L32





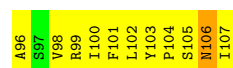
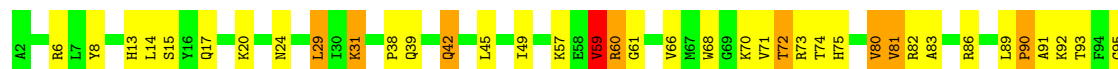
- Molecule 68: 60S ribosomal protein L32

Chain o2: 38% 50% 12% .



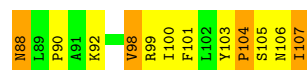
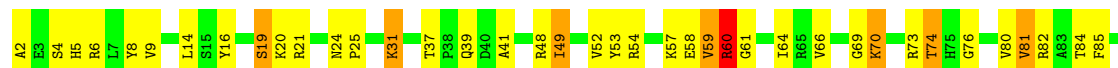
- Molecule 69: 60S ribosomal protein L33-A

Chain O3: 54% 37% 8% .



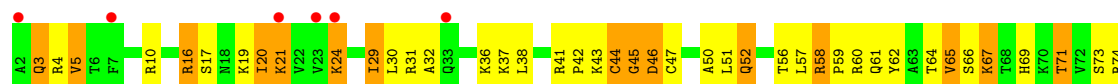
- Molecule 69: 60S ribosomal protein L33-A

Chain o3: 52% 37% 10% .



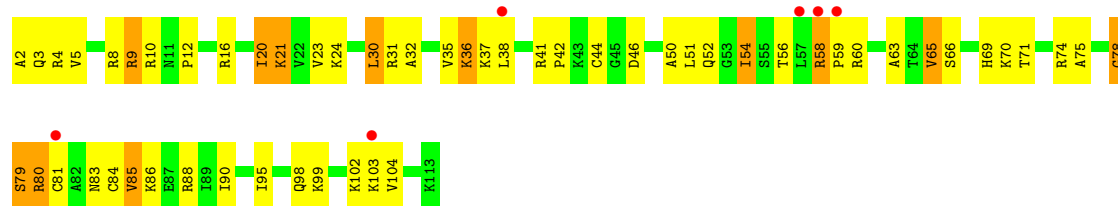
- Molecule 70: 60S ribosomal protein L34-A

Chain O4: 5% 46% 38% 16%

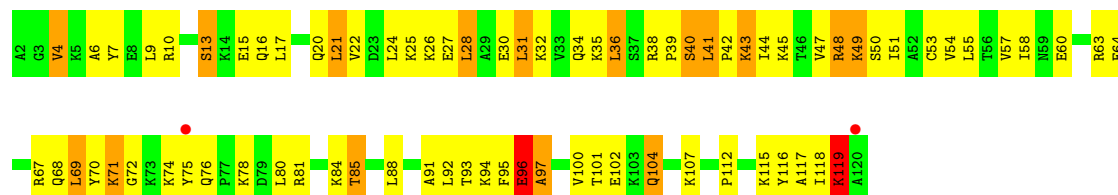


- Molecule 70: 60S ribosomal protein L34-A

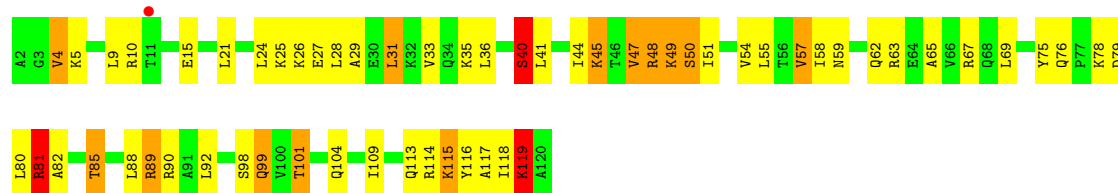
Chain o4: 5% 50% 39% 11%



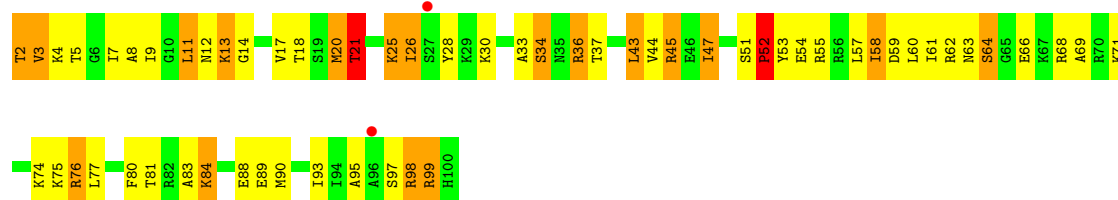
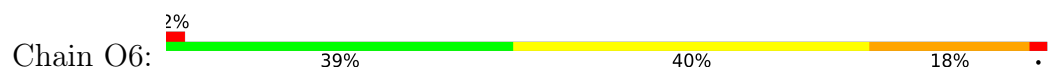
• Molecule 71: 60S ribosomal protein L35-A



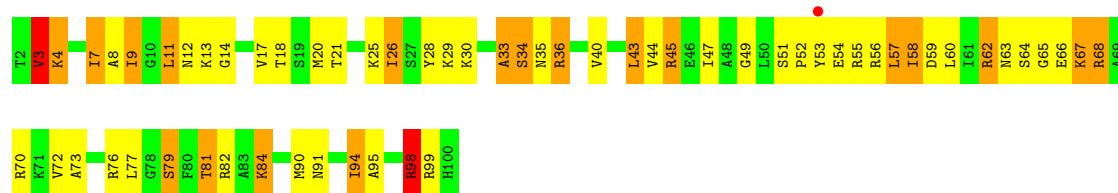
• Molecule 71: 60S ribosomal protein L35-A



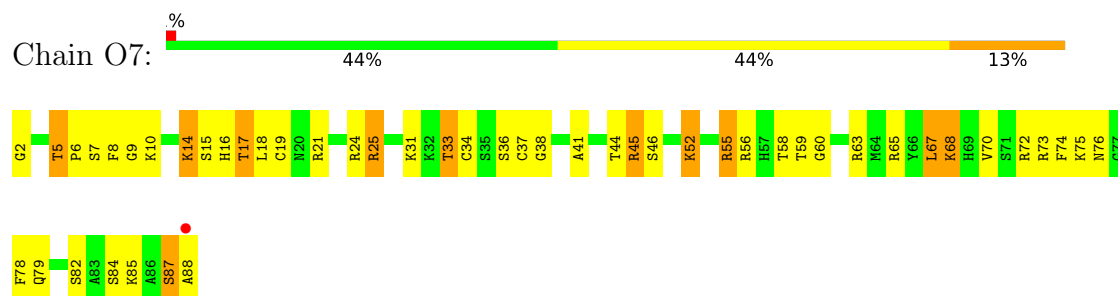
• Molecule 72: 60S ribosomal protein L36-A



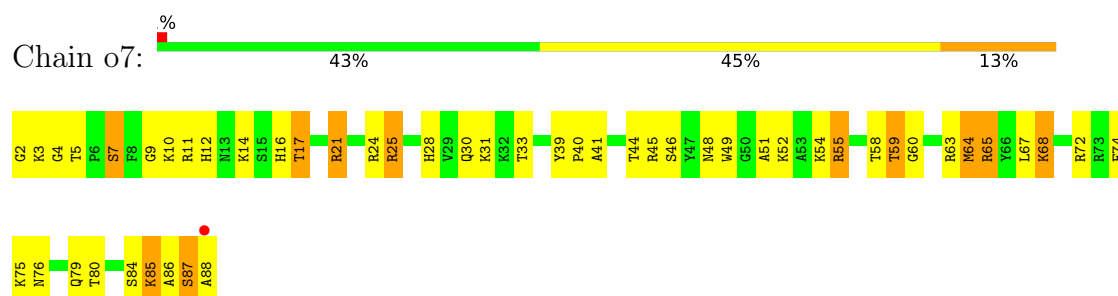
• Molecule 72: 60S ribosomal protein L36-A



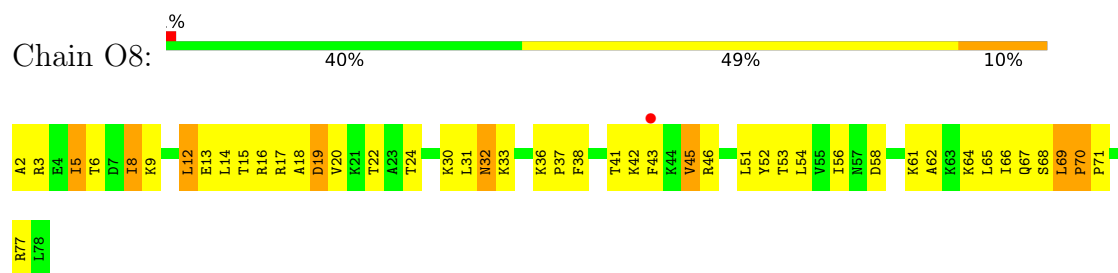
- Molecule 73: 60S ribosomal protein L37-A



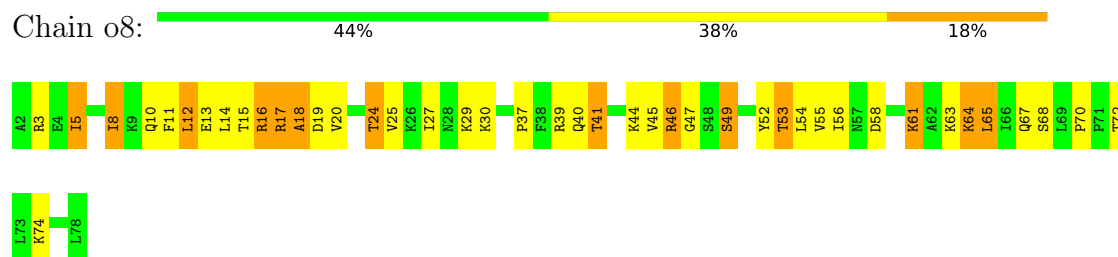
- Molecule 73: 60S ribosomal protein L37-A



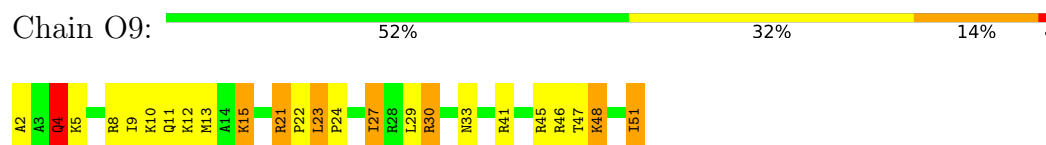
- Molecule 74: 60S ribosomal protein L38



- Molecule 74: 60S ribosomal protein L38

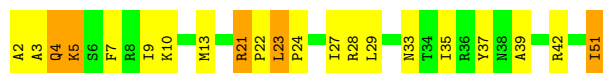


- Molecule 75: 60S ribosomal protein L39

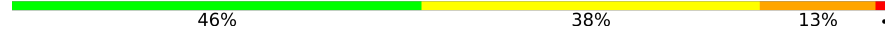


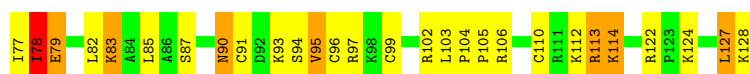
- Molecule 75: 60S ribosomal protein L39

Chain o9:  58% 32% 10%



- Molecule 76: 60S ribosomal protein L40-A

Chain Q0:  46% 38% 13%



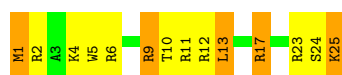
- Molecule 76: 60S ribosomal protein L40-A

Chain q0:  48% 35% 15%



- Molecule 77: Large ribosomal subunit protein eL41B

Chain Q1:  44% 36% 20%



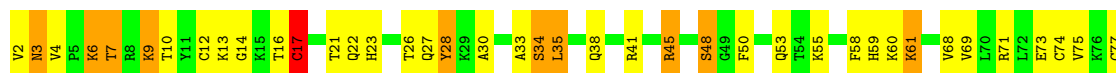
- Molecule 77: Large ribosomal subunit protein eL41B

Chain q1:  28% 56% 16%



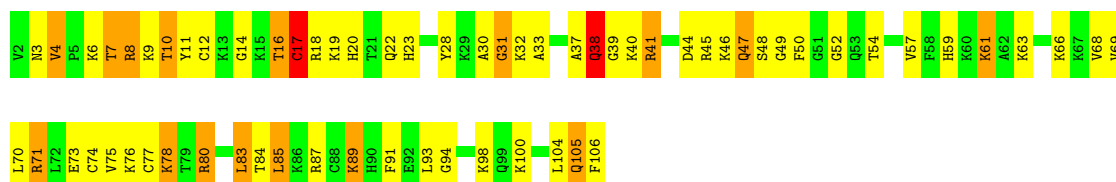
- Molecule 78: 60S ribosomal protein L42-A

Chain Q2:  49% 35% 14%

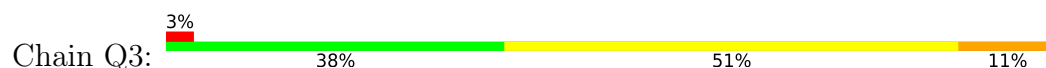


- Molecule 78: 60S ribosomal protein L42-A

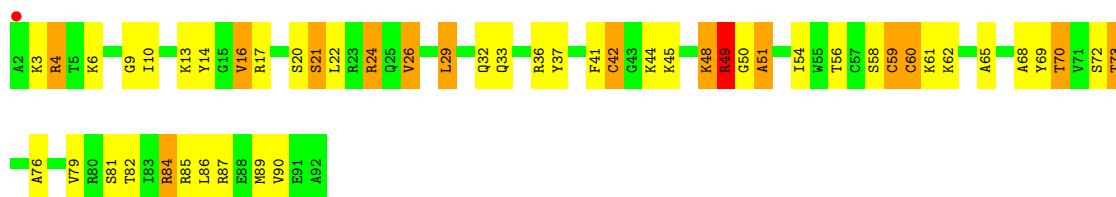
Chain q2:  38% 45% 15%



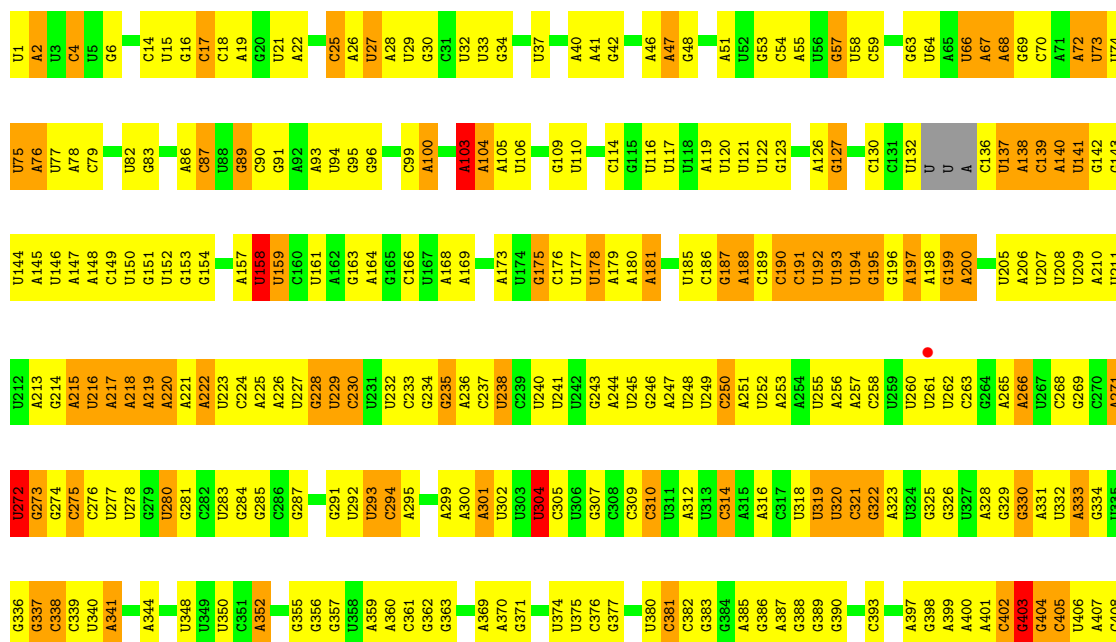
- Molecule 79: 60S ribosomal protein L43-A



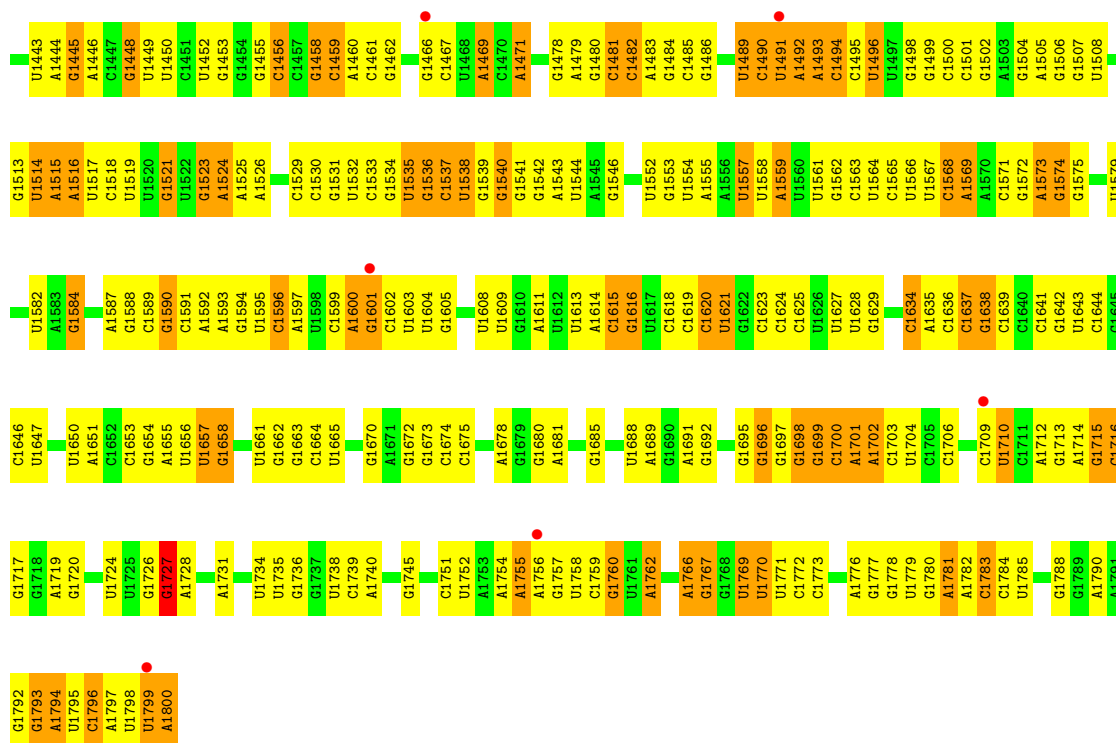
- Molecule 79: 60S ribosomal protein L43-A



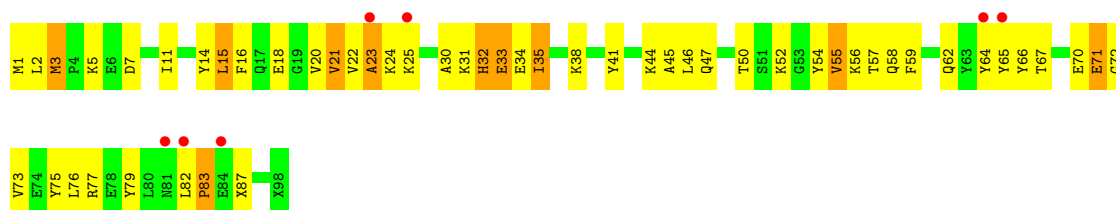
- Molecule 80: 18S ribosomal RNA



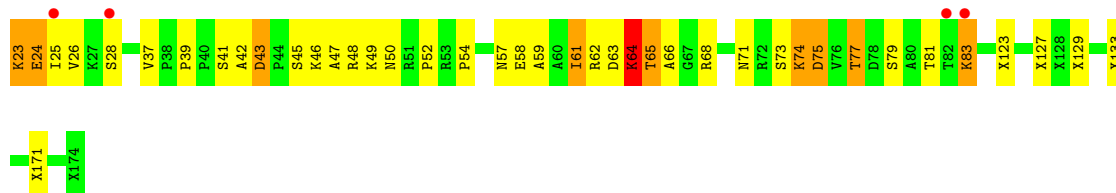




- Molecule 81: Small ribosomal subunit protein eS10A,40S ribosomal protein S10-A,40S ribosomal protein S10-A,40S Ribosomal Protein S10-A



- Molecule 82: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Ribosome-bound protein Stm1

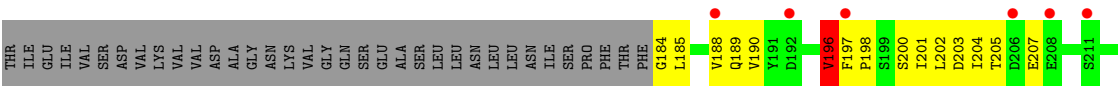
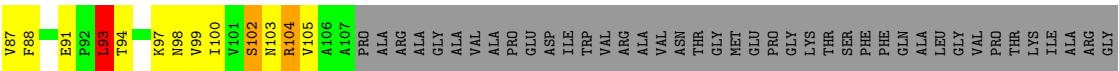
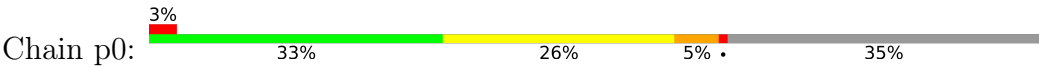


- Molecule 83: 60S Ribosomal Protein L12

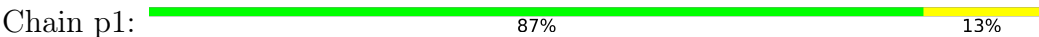




• Molecule 84: Large ribosomal subunit protein uL10



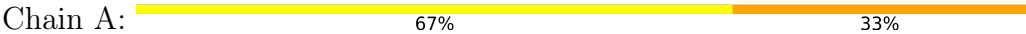
• Molecule 85: 60S Ribosomal Protein P1/2



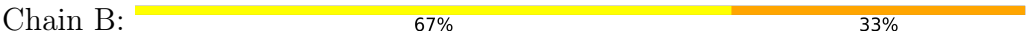
• Molecule 85: 60S Ribosomal Protein P1/2



• Molecule 86: Peptidyl-tRNA analog ACCA-Pro



• Molecule 86: Peptidyl-tRNA analog ACCA-Pro



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 288.14Å 304.16Å 90.00° 99.11° 90.00°	Depositor
Resolution (Å)	149.31 – 3.30 149.31 – 3.30	Depositor EDS
% Data completeness (in resolution range)	92.3 (149.31-3.30) 92.3 (149.31-3.30)	Depositor EDS
R_{merge}	0.33	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.38 (at 3.33Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.211 , 0.265 0.213 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	82.5	Xtriage
Anisotropy	0.225	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 74.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	414270	wwPDB-VP
Average B, all atoms (Å ²)	73.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% 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, 0.333 respectively for untwinned datasets, and 0.375, 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: MG, OHX, 8AN, ZN

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	0.43	0/42467	0.67	4/66169 (0.0%)
2	S0	0.54	1/1617 (0.1%)	0.69	0/2215
2	s0	0.49	0/1623	0.78	1/2222 (0.0%)
3	S1	0.34	0/1735	0.66	1/2335 (0.0%)
3	s1	0.45	0/1748	0.67	0/2352
4	S2	0.44	0/1665	0.72	0/2263
4	s2	0.59	0/1665	0.82	0/2263
5	S3	0.41	0/1759	0.65	0/2368
5	s3	0.43	0/1759	0.65	0/2368
6	S4	0.42	0/2109	0.74	0/2839
6	s4	0.52	0/2109	0.81	0/2839
7	S5	0.34	0/1629	0.63	0/2202
7	s5	0.40	0/1629	0.69	0/2202
8	S6	0.41	0/1823	0.65	0/2439
8	s6	0.50	0/1779	0.78	1/2379 (0.0%)
9	S7	0.40	0/1506	0.73	0/2028
9	s7	0.46	0/1516	0.73	0/2043
10	S8	0.46	0/1514	0.71	0/2021
10	s8	0.56	0/1514	0.82	0/2021
11	S9	0.44	0/1519	0.71	0/2035
11	s9	0.51	0/1519	0.77	0/2035
12	C0	0.35	0/789	0.85	3/1067 (0.3%)
13	C1	0.48	0/1239	0.71	0/1673
13	c1	0.58	0/1194	0.86	0/1610
14	C2	0.38	0/898	0.76	0/1220
14	c2	0.30	0/898	0.64	0/1220
15	C3	0.41	0/1215	0.69	5/1638 (0.3%)
15	c3	0.52	0/1215	0.75	0/1638
16	C4	0.34	0/901	0.67	0/1217
16	c4	0.46	0/960	0.70	0/1290
17	C5	0.43	0/998	0.71	0/1341
17	c5	0.48	0/1060	0.78	0/1426

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
18	C6	0.39	0/1125	0.74	3/1510 (0.2%)
18	c6	0.48	1/1131 (0.1%)	0.74	1/1518 (0.1%)
19	C7	0.42	0/935	0.74	2/1254 (0.2%)
19	c7	0.45	0/914	0.77	0/1224
20	C8	0.43	0/1211	0.71	0/1628
20	c8	0.42	0/1211	0.71	0/1628
21	C9	0.41	0/1130	0.71	0/1517
21	c9	0.43	0/1130	0.66	0/1517
22	D0	0.48	0/865	0.73	0/1169
22	d0	0.43	0/892	0.75	0/1205
23	D1	0.40	0/693	0.65	0/935
23	d1	0.56	0/693	0.83	0/935
24	D2	0.47	0/1038	0.74	0/1395
24	d2	0.57	0/1038	0.82	0/1395
25	D3	0.51	0/1139	0.79	0/1518
25	d3	0.61	0/1139	0.84	0/1518
26	D4	0.42	0/1087	0.69	0/1449
26	d4	0.52	0/1087	0.84	0/1449
27	D5	0.39	0/571	0.77	0/768
27	d5	0.42	0/566	0.64	0/761
28	D6	0.41	0/782	0.81	1/1047 (0.1%)
28	d6	0.52	0/782	0.75	0/1047
29	D7	0.41	0/620	0.65	0/838
29	d7	0.43	0/620	0.76	0/838
30	D8	0.34	0/499	0.63	0/670
30	d8	0.40	0/499	0.69	0/670
31	D9	0.50	0/452	0.79	0/600
31	d9	0.45	0/452	0.70	0/600
32	E0	0.43	0/483	0.63	0/643
32	e0	0.51	0/499	0.86	0/665
33	E1	0.42	0/577	0.91	0/770
33	e1	0.43	0/619	0.91	2/822 (0.2%)
34	SR	0.36	0/2490	0.60	0/3389
34	sR	0.35	0/2495	0.60	0/3395
35	SM	0.49	0/984	0.80	0/1323
36	1	0.59	0/75394	0.81	24/117545 (0.0%)
36	5	0.64	18/75414 (0.0%)	0.85	55/117575 (0.0%)
37	3	0.54	0/2883	0.74	0/4491
37	7	0.62	2/2883 (0.1%)	0.84	0/4491
38	4	0.58	0/3746	0.80	0/5832
38	8	0.56	1/3746 (0.0%)	0.77	0/5832
39	L2	0.56	0/1948	0.83	0/2617
39	l2	0.60	0/1946	0.90	0/2614

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
40	L3	0.61	1/3146 (0.0%)	0.88	0/4228
40	l3	0.69	0/3146	0.89	0/4228
41	L4	0.66	2/2800 (0.1%)	0.97	4/3790 (0.1%)
41	l4	0.63	1/2800 (0.0%)	0.89	0/3790
42	L5	0.50	0/2425	0.76	0/3271
42	l5	0.63	0/2408	0.84	0/3248
43	L6	0.58	0/1260	0.82	0/1694
43	l6	0.60	0/1269	0.84	0/1705
44	L7	0.62	0/1821	0.86	2/2451 (0.1%)
44	l7	0.65	0/1828	0.90	3/2461 (0.1%)
45	L8	0.43	0/1836	0.69	0/2481
45	l8	0.43	0/1795	0.70	0/2429
46	L9	0.53	0/1539	0.83	2/2073 (0.1%)
46	l9	0.64	0/1539	0.84	0/2073
47	M0	0.70	1/1741 (0.1%)	0.87	0/2335
47	m0	0.76	1/1758 (0.1%)	0.88	0/2358
48	M1	0.48	0/1374	0.76	0/1842
48	m1	0.61	0/1374	0.82	0/1842
49	M3	0.59	0/1568	0.86	0/2106
49	m3	0.57	0/1573	0.85	0/2113
50	M4	0.58	0/1068	0.83	0/1438
50	m4	0.65	0/1074	0.83	0/1446
51	M5	0.61	0/1757	0.85	1/2354 (0.0%)
51	m5	0.52	0/1757	0.81	2/2354 (0.1%)
52	M6	0.68	0/1585	0.89	2/2128 (0.1%)
52	m6	0.75	0/1585	0.91	0/2128
53	M7	0.64	0/1443	0.90	0/1944
53	m7	0.72	0/1250	0.89	0/1683
54	M8	0.61	0/1465	0.91	1/1965 (0.1%)
54	m8	0.62	0/1465	0.90	0/1965
55	M9	0.47	0/1538	0.71	0/2050
55	m9	0.53	0/1538	0.73	0/2050
56	N0	0.58	0/1481	0.81	1/1990 (0.1%)
56	n0	0.64	0/1481	0.87	0/1990
57	N1	0.58	0/1300	0.85	0/1743
57	n1	0.63	0/1300	0.81	0/1743
58	N2	0.39	0/812	0.64	0/1099
58	n2	0.46	0/794	0.70	0/1076
59	N3	0.62	0/1018	0.85	0/1369
59	n3	0.74	0/1018	0.98	3/1369 (0.2%)
60	N4	0.54	0/712	0.81	0/958
60	n4	0.61	0/1052	0.85	0/1398
61	N5	0.52	0/979	0.74	0/1321

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	n5	0.50	0/974	0.76	0/1314
62	N6	0.60	0/1004	0.92	0/1341
62	n6	0.56	0/1004	0.80	0/1341
63	N7	0.40	0/1118	0.65	0/1497
63	n7	0.40	0/1118	0.66	0/1497
64	N8	0.65	0/1204	0.92	2/1612 (0.1%)
64	n8	0.69	1/1204 (0.1%)	0.93	2/1612 (0.1%)
65	N9	0.62	0/473	0.93	0/629
65	n9	0.68	0/473	1.03	0/629
66	O0	0.38	0/751	0.58	0/1008
66	o0	0.45	0/775	0.70	0/1040
67	O1	0.54	0/890	0.78	0/1196
67	o1	0.65	0/897	0.84	0/1205
68	O2	0.67	0/1041	0.98	0/1394
68	o2	0.65	0/1041	0.91	0/1394
69	O3	0.72	0/868	0.94	0/1168
69	o3	0.71	0/868	0.90	0/1168
70	O4	0.49	0/890	0.72	0/1189
70	o4	0.51	0/890	0.75	0/1189
71	O5	0.54	0/978	0.77	0/1301
71	o5	0.51	0/974	0.71	0/1297
72	O6	0.54	0/778	0.80	0/1034
72	o6	0.48	0/777	0.88	0/1033
73	O7	0.57	0/696	0.87	0/923
73	o7	0.61	0/696	0.90	0/923
74	O8	0.43	0/618	0.66	0/826
74	o8	0.43	0/614	0.67	0/822
75	O9	0.67	0/443	0.89	0/588
75	o9	0.66	0/443	0.78	0/588
76	Q0	0.59	0/423	0.83	0/562
76	q0	0.79	0/423	1.04	0/562
77	Q1	0.60	0/234	0.76	0/300
77	q1	0.69	0/234	0.92	0/300
78	Q2	0.72	1/860 (0.1%)	0.88	0/1136
78	q2	0.70	1/860 (0.1%)	0.85	3/1136 (0.3%)
79	Q3	0.58	0/701	0.84	0/934
79	q3	0.59	0/701	0.82	1/934 (0.1%)
80	6	0.53	8/42790 (0.0%)	0.76	26/66673 (0.0%)
81	c0	0.34	0/718	0.67	1/968 (0.1%)
82	sM	0.52	0/481	0.74	0/644
84	p0	0.37	0/1092	0.64	0/1474
86	A	0.56	0/43	0.77	0/64
86	B	0.56	0/43	0.77	0/64

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.56	40/430554 (0.0%)	0.79	159/632173 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	S1	0	1
7	s5	0	2
9	S7	0	1
10	S8	0	1
16	C4	0	1
17	c5	0	1
18	c6	0	2
19	C7	0	2
19	c7	0	1
22	d0	0	1
24	d2	0	1
25	D3	0	1
27	D5	0	2
27	d5	0	1
28	D6	0	3
33	E1	0	3
33	e1	0	1
39	L2	0	1
39	l2	0	3
40	L3	0	1
40	l3	0	1
41	l4	0	1
42	L5	0	2
42	l5	0	2
43	L6	0	1
44	l7	0	2
45	L8	0	1
47	M0	0	1
48	m1	0	1
49	m3	0	1
50	m4	0	1
52	M6	0	1
52	m6	0	1
53	M7	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
53	m7	0	1
55	m9	0	1
56	N0	0	2
56	n0	0	2
59	n3	0	2
62	N6	0	1
64	N8	0	1
64	n8	0	1
65	N9	0	1
65	n9	0	1
67	O1	0	1
67	o1	0	1
68	o2	0	2
70	o4	0	1
78	Q2	0	1
78	q2	0	1
All	All	0	67

All (40) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	S0	95	ALA	C-N	13.86	1.62	1.33
47	m0	92	HIS	C-N	-10.65	1.08	1.33
36	5	2707	C	C4-N4	9.91	1.53	1.33
41	l4	349	THR	C-N	8.99	1.52	1.33
78	Q2	17	CYS	CB-SG	8.62	2.09	1.81
36	5	2851	A	P-OP1	8.54	1.66	1.49
36	5	2861	U	P-OP1	8.54	1.66	1.49
18	c6	4	VAL	C-N	8.33	1.53	1.33
41	L4	101	ALA	C-O	8.17	1.27	1.23
80	6	305	C	P-OP2	8.05	1.65	1.49
36	5	2604	U	P-OP2	7.78	1.64	1.49
36	5	2627	C	P-OP1	7.54	1.64	1.49
36	5	2246	G	C3'-O3'	7.04	1.52	1.42
64	n8	98	THR	C-N	7.03	1.48	1.33
36	5	1454	A	P-OP2	6.71	1.62	1.49
37	7	76	A	P-OP2	6.63	1.62	1.49
36	5	583	G	P-OP1	6.62	1.62	1.49
38	8	15	G	P-OP2	6.58	1.62	1.49
47	M0	213	PHE	C-O	-6.50	1.20	1.23
78	q2	17	CYS	CB-SG	6.20	2.01	1.81
80	6	1781	A	P-OP1	6.20	1.61	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	88	G	P-OP1	6.19	1.61	1.49
36	5	1674	G	P-OP2	6.17	1.61	1.49
36	5	367	A	P-OP1	6.15	1.61	1.49
80	6	403	G	C3'-O3'	6.11	1.51	1.42
36	5	201	A	P-OP2	5.96	1.60	1.49
80	6	89	G	C6-O6	5.88	1.35	1.24
36	5	2656	A	C2'-O2'	5.86	1.50	1.41
80	6	1727	G	C6-O6	5.75	1.35	1.24
36	5	1378	U	P-OP1	5.63	1.60	1.49
41	L4	102	PRO	N-CA	-5.56	1.40	1.47
36	5	1045	C	P-OP2	5.47	1.59	1.49
36	5	2924	U	C2'-O2'	5.35	1.50	1.42
36	5	964	G	P-OP1	5.28	1.59	1.49
80	6	1092	A	P-OP1	5.27	1.59	1.49
40	L3	154	TYR	CA-C	5.24	1.56	1.53
36	5	1331	U	P-OP2	5.22	1.59	1.49
80	6	982	U	P-OP1	5.09	1.59	1.49
80	6	550	A	P-OP2	5.05	1.59	1.49
36	5	522	A	P-OP1	5.04	1.59	1.49

All (159) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	3144	G	O5'-P-OP1	-15.50	61.49	108.00
80	6	403	G	P-O3'-C3'	-13.86	99.42	120.20
36	5	3083	G	OP1-P-O3'	10.37	139.11	108.00
12	C0	88	PRO	N-CA-CB	10.25	114.02	103.25
36	5	2246	G	P-O3'-C3'	-10.09	105.06	120.20
80	6	1305	U	O4'-C1'-N1	-9.86	93.42	108.20
12	C0	87	VAL	CA-C-N	7.97	129.80	119.84
12	C0	87	VAL	C-N-CA	7.97	129.80	119.84
36	5	2603	G	OP2-P-O3'	7.84	131.52	108.00
78	q2	17	CYS	CA-CB-SG	7.84	132.43	114.40
36	5	3144	G	O5'-P-OP2	-7.70	84.89	108.00
36	1	282	G	C4'-C3'-O3'	7.57	124.35	113.00
36	5	3083	G	OP2-P-O3'	-7.46	85.62	108.00
36	5	366	A	OP1-P-O3'	7.43	130.28	108.00
36	1	637	C	C4'-C3'-O3'	7.41	120.52	109.40
36	1	637	C	P-O3'-C3'	7.21	131.02	120.20
81	c0	83	PRO	N-CA-CB	7.15	110.76	103.25
36	5	1307	G	C2'-C3'-O3'	7.14	120.21	109.50
52	M6	110	PRO	CA-C-N	7.13	128.75	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	M6	110	PRO	C-N-CA	7.13	128.75	119.84
36	1	1307	G	C2'-C3'-O3'	6.92	119.87	109.50
36	5	1060	U	OP1-P-O3'	6.89	128.67	108.00
80	6	1496	U	OP2-P-O3'	6.89	128.66	108.00
18	C6	40	GLU	CA-C-N	6.88	143.50	127.00
18	C6	40	GLU	C-N-CA	6.88	143.50	127.00
80	6	304	U	OP1-P-O3'	-6.78	87.67	108.00
36	1	1307	G	P-O3'-C3'	6.76	130.33	120.20
36	5	1607	U	C4'-C3'-O3'	6.63	119.34	109.40
18	C6	40	GLU	C-N-CD	-6.61	106.06	120.60
36	5	2924	U	C3'-C2'-O2'	6.57	120.56	110.70
36	5	1607	U	N1-C1'-C2'	-6.43	104.35	114.00
80	6	130	C	P-O3'-C3'	-6.40	110.60	120.20
41	L4	101	ALA	O-C-N	-6.38	113.98	121.32
36	1	979	U	P-O3'-C3'	6.30	129.66	120.20
36	5	1816	A	P-O3'-C3'	6.28	129.62	120.20
36	5	1152	G	P-O3'-C3'	6.25	129.57	120.20
80	6	293	U	O5'-P-OP1	-6.22	89.34	108.00
36	5	2626	A	OP2-P-O3'	-6.22	89.34	108.00
36	1	65	A	C4'-C3'-O3'	6.21	118.71	109.40
2	s0	163	ASN	N-CA-C	-6.20	107.55	114.62
36	5	1816	A	OP1-P-O3'	6.18	126.55	108.00
36	5	1307	G	P-O3'-C3'	6.16	129.44	120.20
44	17	94	LYS	CA-C-N	-6.16	117.38	123.04
44	17	94	LYS	C-N-CA	-6.16	117.38	123.04
36	5	1055	A	OP2-P-O3'	6.15	126.45	108.00
44	17	229	PHE	CA-CB-CG	6.15	119.95	113.80
15	C3	22	ALA	CA-C-N	6.14	141.73	127.00
15	C3	22	ALA	C-N-CA	6.14	141.73	127.00
80	6	1097	U	P-O3'-C3'	6.10	129.35	120.20
3	S1	44	GLY	N-CA-C	6.10	120.21	111.12
80	6	794	U	N1-C1'-C2'	6.09	123.13	114.00
36	1	1329	U	C4'-C3'-O3'	6.05	118.47	109.40
36	1	282	G	P-O3'-C3'	6.04	129.26	120.20
36	5	2974	U	OP1-P-O3'	5.99	125.96	108.00
80	6	1097	U	C2'-C3'-O3'	5.93	118.39	109.50
41	L4	101	ALA	CA-C-O	5.92	124.56	120.47
15	C3	22	ALA	C-N-CD	-5.92	107.58	120.60
36	5	977	C	OP1-P-O3'	5.91	125.72	108.00
36	5	2187	G	O5'-P-OP2	5.89	125.66	108.00
36	1	65	A	P-O3'-C3'	5.88	129.03	120.20
36	5	1254	C	OP2-P-O3'	5.84	125.53	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3319	U	P-O3'-C3'	5.80	128.90	120.20
18	c6	97	VAL	CA-CB-CG2	5.80	120.26	110.40
36	5	1044	U	OP1-P-O3'	-5.80	90.60	108.00
36	5	960	U	N1-C1'-C2'	5.78	120.67	112.00
28	D6	84	VAL	CB-CA-C	-5.75	101.86	111.29
36	5	1055	A	OP1-P-O3'	-5.74	90.78	108.00
80	6	293	U	O5'-P-OP2	5.72	125.17	108.00
36	5	2704	A	O5'-P-OP1	-5.72	90.82	108.00
36	5	3078	U	N1-C1'-C2'	-5.70	105.45	114.00
80	6	103	A	C4'-C3'-O3'	5.70	117.95	109.40
36	5	2851	A	O5'-P-OP1	5.70	125.09	108.00
80	6	981	U	OP1-P-O3'	5.69	125.06	108.00
80	6	555	A	C2'-C3'-O3'	5.68	122.22	113.70
19	C7	84	TYR	CA-C-N	5.67	132.62	122.13
19	C7	84	TYR	C-N-CA	5.67	132.62	122.13
80	6	755	A	N9-C1'-C2'	-5.67	105.50	114.00
51	M5	177	GLY	N-CA-C	5.67	117.33	111.95
33	e1	86	THR	CA-C-N	5.66	135.60	121.80
33	e1	86	THR	C-N-CA	5.66	135.60	121.80
1	2	1196	A	C4'-C3'-O3'	5.59	117.79	109.40
36	5	1481	A	P-O3'-C3'	5.59	128.59	120.20
36	1	2525	G	C2'-C3'-O3'	5.59	122.08	113.70
36	5	2846	U	C3'-C2'-O2'	5.57	119.05	110.70
36	5	1330	A	OP2-P-O3'	5.56	124.68	108.00
44	L7	228	SER	CA-C-N	-5.53	113.15	123.05
44	L7	228	SER	C-N-CA	-5.53	113.15	123.05
36	1	1429	G	P-O5'-C5'	-5.51	112.63	120.90
80	6	403	G	C2'-C3'-O3'	5.51	121.96	113.70
41	L4	190	GLY	N-CA-C	5.50	123.15	112.64
46	L9	40	HIS	CA-C-N	-5.50	112.08	121.97
46	L9	40	HIS	C-N-CA	-5.50	112.08	121.97
80	6	755	A	C4'-C3'-O3'	5.49	117.64	109.40
36	5	1250	G	OP2-P-O3'	5.48	124.44	108.00
80	6	158	U	C2'-C3'-O3'	5.48	117.72	109.50
36	5	1152	G	C4'-C3'-O3'	-5.48	104.78	113.00
80	6	879	G	OP2-P-O3'	5.47	124.42	108.00
51	m5	76	PRO	CA-C-N	-5.47	112.88	122.62
51	m5	76	PRO	C-N-CA	-5.47	112.88	122.62
36	5	2626	A	OP1-P-O3'	5.46	124.37	108.00
8	s6	169	TYR	CA-CB-CG	5.45	123.71	113.90
36	5	1042	U	OP1-P-O3'	-5.44	91.68	108.00
36	1	2227	C	C2'-C3'-O3'	5.43	121.84	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	250	TRP	CA-CB-CG	5.40	123.86	113.60
36	5	2603	G	OP1-P-O3'	-5.39	91.83	108.00
56	N0	167	ARG	N-CA-C	-5.39	97.91	109.81
80	6	779	U	O4'-C1'-N1	5.38	116.28	108.20
36	5	1317	A	O5'-P-OP1	5.38	124.13	108.00
36	5	404	G	O5'-P-OP2	-5.36	91.93	108.00
36	5	1607	U	P-O3'-C3'	5.35	128.22	120.20
36	5	521	A	OP2-P-O3'	-5.34	91.97	108.00
36	5	2594	C	OP1-P-O3'	5.34	124.02	108.00
36	1	2249	G	C2'-C3'-O3'	5.34	121.71	113.70
80	6	403	G	C4'-C3'-O3'	5.34	121.00	113.00
36	1	1307	G	C4'-C3'-O3'	5.33	117.40	109.40
36	1	637	C	O3'-P-O5'	5.33	111.99	104.00
36	1	2399	A	P-O3'-C3'	-5.32	112.22	120.20
36	1	282	G	C2'-C3'-O3'	5.32	121.67	113.70
64	N8	115	LYS	CA-C-N	-5.28	111.06	121.41
64	N8	115	LYS	C-N-CA	-5.28	111.06	121.41
36	5	2372	A	O3'-P-O5'	5.28	111.92	104.00
36	1	620	U	N1-C1'-C2'	5.26	119.89	112.00
36	5	1305	U	O5'-P-OP1	-5.24	92.27	108.00
36	5	2246	G	C2'-C3'-O3'	5.24	121.55	113.70
36	5	873	C	P-O3'-C3'	5.23	128.05	120.20
36	1	1421	G	OP1-P-O3'	-5.23	92.32	108.00
80	6	272	U	P-O3'-C3'	5.22	128.03	120.20
36	1	1607	U	C4'-C3'-O3'	5.21	117.22	109.40
80	6	272	U	C2'-C3'-O3'	5.21	117.31	109.50
59	n3	41	GLY	CA-C-N	5.18	131.43	121.54
59	n3	41	GLY	C-N-CA	5.18	131.43	121.54
36	5	583	G	O5'-P-OP1	5.17	123.50	108.00
36	5	2953	U	C2'-C3'-O3'	5.16	121.44	113.70
80	6	1496	U	OP1-P-O3'	-5.16	92.53	108.00
36	5	521	A	OP1-P-O3'	5.14	123.42	108.00
79	q3	29	LEU	CA-CB-CG	-5.13	98.36	116.30
78	q2	17	CYS	CA-C-N	-5.12	114.46	122.49
78	q2	17	CYS	C-N-CA	-5.12	114.46	122.49
1	2	499	U	C4'-C3'-O3'	5.11	117.06	109.40
36	5	2372	A	OP2-P-O3'	-5.11	92.67	108.00
36	1	1820	U	P-O3'-C3'	5.10	127.85	120.20
80	6	402	C	O4'-C1'-N1	5.10	116.14	108.50
59	n3	109	MET	CB-CG-SD	-5.10	97.41	112.70
1	2	782	U	P-O3'-C3'	5.09	127.84	120.20
36	5	2310	U	O5'-P-OP2	-5.09	92.73	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C3	137	PRO	CA-C-N	5.08	131.24	121.54
15	C3	137	PRO	C-N-CA	5.08	131.24	121.54
36	5	2851	A	O5'-P-OP2	-5.08	92.77	108.00
36	5	2627	C	O5'-P-OP1	5.07	123.20	108.00
54	M8	71	LEU	CA-CB-CG	-5.07	98.57	116.30
64	n8	44	ASN	CA-C-N	-5.06	110.87	121.80
64	n8	44	ASN	C-N-CA	-5.06	110.87	121.80
80	6	1160	A	P-O3'-C3'	-5.05	112.62	120.20
36	5	1716	U	C4'-C3'-O3'	5.05	116.98	109.40
36	5	2707	C	N3-C4-C5	-5.05	106.74	121.90
80	6	403	G	C4-N9-C1'	5.04	141.62	126.50
36	5	3135	U	OP1-P-O3'	-5.04	92.89	108.00
36	1	2525	G	P-O3'-C3'	5.03	127.75	120.20
1	2	1157	A	C2'-C3'-O3'	5.01	121.21	113.70

There are no chirality outliers.

All (67) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
19	C7	22	PRO	Peptide
19	C7	85	VAL	Peptide
25	D3	44	GLY	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
28	D6	10	ARG	Peptide
28	D6	84	VAL	Peptide
28	D6	85	ARG	Peptide
33	E1	105	TYR	Peptide
33	E1	138	ARG	Peptide
33	E1	143	LYS	Peptide
39	L2	112	ILE	Peptide
40	L3	172	ALA	Peptide
42	L5	186	GLU	Peptide
42	L5	58	LYS	Peptide
43	L6	51	ARG	Peptide
45	L8	74	THR	Peptide
47	M0	51	HIS	Peptide
52	M6	110	PRO	Peptide
53	M7	120	ASN	Peptide
56	N0	22	PRO	Peptide
56	N0	51	VAL	Peptide

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Mol	Chain	Res	Type	Group
62	N6	44	GLY	Peptide
64	N8	30	GLY	Peptide
65	N9	19	ASN	Peptide
67	O1	83	GLU	Peptide
78	Q2	93	LEU	Peptide
3	S1	131	ASP	Peptide
9	S7	131	PHE	Peptide
10	S8	8	ARG	Peptide
17	c5	52	LYS	Peptide
18	c6	40	GLU	Peptide
18	c6	41	PRO	Peptide
19	c7	88	VAL	Peptide
22	d0	70	THR	Peptide
24	d2	54	ASP	Peptide
27	d5	85	LYS	Peptide
33	e1	106	TYR	Peptide
39	l2	143	GLU	Peptide
39	l2	211	HIS	Peptide
39	l2	48	ILE	Peptide
40	l3	2	SER	Peptide
41	l4	318	LEU	Peptide
42	l5	270	LYS	Peptide
42	l5	271	LYS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
48	m1	151	SER	Peptide
49	m3	56	PRO	Peptide
50	m4	20	VAL	Peptide
52	m6	110	PRO	Peptide
53	m7	66	SER	Peptide
55	m9	73	GLY	Peptide
56	n0	133	ALA	Peptide
56	n0	170	THR	Peptide
59	n3	4	ASN	Peptide
59	n3	5	GLY	Peptide
64	n8	66	ALA	Peptide
65	n9	24	PRO	Peptide
67	o1	90	PHE	Peptide
68	o2	15	LYS	Peptide
68	o2	39	ASP	Peptide
70	o4	80	ARG	Peptide
78	q2	16	THR	Peptide

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Mol	Chain	Res	Type	Group
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19103	1244	0
2	S0	1577	0	1567	99	0
2	s0	1583	0	1578	128	0
3	S1	1709	0	1784	135	0
3	s1	1722	0	1793	105	0
4	S2	1635	0	1723	97	0
4	s2	1635	0	1723	105	0
5	S3	1734	0	1817	84	0
5	s3	1734	0	1817	86	0
6	S4	2068	0	2154	105	0
6	s4	2068	0	2154	135	0
7	S5	1609	0	1675	85	0
7	s5	1609	0	1675	78	0
8	S6	1799	0	1879	91	0
8	s6	1755	0	1846	84	0
9	S7	1481	0	1572	92	0
9	s7	1491	0	1578	80	0
10	S8	1489	0	1525	67	0
10	s8	1489	0	1525	68	0
11	S9	1494	0	1573	89	0
11	s9	1494	0	1573	104	0
12	C0	772	0	727	41	0
13	C1	1213	0	1257	69	0
13	c1	1168	0	1233	70	0
14	C2	890	0	887	47	0
14	c2	890	0	887	33	0
15	C3	1192	0	1255	60	0
15	c3	1192	0	1255	61	0
16	C4	891	0	883	54	0
16	c4	949	0	985	67	0
17	C5	977	0	1002	64	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	c5	1039	0	1050	75	0
18	C6	1105	0	1166	79	0
18	c6	1111	0	1171	77	0
19	C7	926	0	930	49	0
19	c7	906	0	909	59	0
20	C8	1192	0	1222	77	0
20	c8	1192	0	1222	78	0
21	C9	1112	0	1124	74	0
21	c9	1112	0	1124	60	0
22	D0	855	0	917	53	0
22	d0	882	0	939	58	0
23	D1	684	0	672	41	0
23	d1	684	0	672	64	0
24	D2	1021	0	1060	53	0
24	d2	1021	0	1060	63	0
25	D3	1121	0	1196	66	0
25	d3	1121	0	1196	57	0
26	D4	1073	0	1132	47	0
26	d4	1073	0	1132	66	0
27	D5	563	0	603	42	0
27	d5	558	0	598	33	0
28	D6	769	0	814	64	0
28	d6	769	0	814	47	0
29	D7	610	0	631	27	0
29	d7	610	0	632	30	0
30	D8	497	0	535	27	0
30	d8	497	0	535	21	0
31	D9	442	0	428	24	0
31	d9	442	0	427	20	0
32	E0	475	0	525	21	0
32	e0	491	0	542	28	0
33	E1	566	0	601	38	0
33	e1	608	0	657	39	0
34	SR	2437	0	2386	104	0
34	sR	2442	0	2392	116	0
35	SM	1104	0	978	59	0
36	1	67355	0	33836	2003	0
36	5	67376	0	33839	1957	0
37	3	2579	0	1304	79	0
37	7	2579	0	1303	79	0
38	4	3353	0	1695	112	0
38	8	3353	0	1695	116	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	L2	1914	0	1981	115	0
39	l2	1912	0	1976	122	0
40	L3	3075	0	3142	169	0
40	l3	3075	0	3142	189	0
41	L4	2748	0	2858	182	0
41	l4	2748	0	2859	171	0
42	L5	2375	0	2325	124	0
42	l5	2359	0	2311	142	0
43	L6	1239	0	1326	66	0
43	l6	1248	0	1339	63	0
44	L7	1784	0	1862	114	0
44	l7	1791	0	1869	81	0
45	L8	1804	0	1877	88	0
45	l8	1763	0	1819	89	0
46	L9	1518	0	1587	105	0
46	l9	1518	0	1587	85	0
47	M0	1705	0	1736	113	0
47	m0	1722	0	1755	111	0
48	M1	1353	0	1383	88	0
48	m1	1353	0	1383	60	0
49	M3	1543	0	1608	93	0
49	m3	1548	0	1613	94	0
50	M4	1053	0	1149	72	0
50	m4	1059	0	1154	41	0
51	M5	1720	0	1779	93	0
51	m5	1720	0	1779	109	0
52	M6	1555	0	1658	75	0
52	m6	1555	0	1659	66	0
53	M7	1420	0	1437	81	0
53	m7	1227	0	1236	75	0
54	M8	1441	0	1542	79	0
54	m8	1441	0	1543	89	0
55	M9	1521	0	1617	71	0
55	m9	1521	0	1617	72	0
56	N0	1445	0	1487	81	0
56	n0	1445	0	1487	78	0
57	N1	1276	0	1323	64	0
57	n1	1276	0	1323	72	0
58	N2	796	0	812	35	0
58	n2	778	0	791	36	0
59	N3	1003	0	1047	50	0
59	n3	1003	0	1048	58	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	N4	699	0	640	26	0
60	n4	1038	0	1071	28	0
61	N5	964	0	1025	50	0
61	n5	959	0	1023	49	0
62	N6	993	0	1081	51	0
62	n6	993	0	1081	59	0
63	N7	1092	0	1155	65	0
63	n7	1092	0	1155	60	0
64	N8	1173	0	1215	73	0
64	n8	1173	0	1214	95	0
65	N9	462	0	491	25	0
65	n9	462	0	491	26	0
66	O0	743	0	797	40	0
66	o0	767	0	816	43	0
67	O1	876	0	911	44	0
67	o1	883	0	918	34	0
68	O2	1020	0	1090	62	0
68	o2	1020	0	1089	69	0
69	O3	850	0	880	44	0
69	o3	850	0	880	40	0
70	O4	880	0	945	58	0
70	o4	880	0	945	51	0
71	O5	969	0	1078	68	0
71	o5	965	0	1067	52	0
72	O6	771	0	849	49	0
72	o6	770	0	846	54	0
73	O7	681	0	683	43	0
73	o7	681	0	682	46	0
74	O8	612	0	682	28	0
74	o8	608	0	671	30	0
75	O9	436	0	475	28	0
75	o9	436	0	475	19	0
76	Q0	417	0	456	24	0
76	q0	417	0	456	26	0
77	Q1	233	0	284	7	0
77	q1	233	0	284	12	0
78	Q2	847	0	915	42	0
78	q2	847	0	914	58	0
79	Q3	694	0	734	45	0
79	q3	694	0	734	36	0
80	6	38260	0	19242	1256	0
81	c0	762	0	691	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
82	sM	681	0	544	30	0
83	m2	750	0	178	9	0
84	p0	1077	0	1041	45	0
85	p1	235	0	52	3	0
85	p2	230	0	49	0	0
86	A	62	0	33	16	0
86	B	62	0	32	12	0
87	1	2877	0	0	274	0
87	2	1323	0	0	121	0
87	3	84	0	0	5	0
87	4	119	0	0	8	0
87	5	2905	0	0	214	0
87	6	1386	0	0	115	0
87	7	84	0	0	1	0
87	8	147	0	0	17	0
87	C3	7	0	0	2	0
87	C5	7	0	0	3	0
87	C8	14	0	0	1	0
87	D9	7	0	0	1	0
87	L3	21	0	0	4	0
87	L4	7	0	0	2	0
87	L5	7	0	0	0	0
87	M0	28	0	0	11	0
87	M5	7	0	0	1	0
87	M7	7	0	0	0	0
87	M8	7	0	0	0	0
87	M9	21	0	0	2	0
87	N8	7	0	0	0	0
87	N9	7	0	0	1	0
87	O1	7	0	0	1	0
87	O3	7	0	0	0	0
87	O7	14	0	0	8	0
87	Q2	7	0	0	2	0
87	S2	7	0	0	2	0
87	S8	7	0	0	2	0
87	SR	7	0	0	0	0
87	c1	7	0	0	0	0
87	c3	7	0	0	2	0
87	c5	14	0	0	9	0
87	c8	7	0	0	0	0
87	d9	7	0	0	0	0
87	l2	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	l3	14	0	0	2	0
87	l4	14	0	0	3	0
87	l5	21	0	0	3	0
87	l9	7	0	0	0	0
87	m0	28	0	0	5	0
87	m1	7	0	0	1	0
87	m4	7	0	0	0	0
87	m5	14	0	0	0	0
87	m7	7	0	0	0	0
87	m9	7	0	0	0	0
87	n1	7	0	0	0	0
87	n3	14	0	0	2	0
87	n9	7	0	0	1	0
87	o3	7	0	0	0	0
87	o7	14	0	0	1	0
87	o9	7	0	0	0	0
87	q1	7	0	0	0	0
87	q2	7	0	0	3	0
87	s1	14	0	0	3	0
87	s4	7	0	0	1	0
87	s8	7	0	0	1	0
87	sR	7	0	0	0	0
88	1	698	0	0	0	0
88	2	170	0	0	0	0
88	3	18	0	0	0	0
88	4	28	0	0	0	0
88	5	759	0	0	0	0
88	6	235	0	0	0	0
88	7	28	0	0	0	0
88	8	19	0	0	0	0
88	C1	2	0	0	0	0
88	C5	1	0	0	0	0
88	C8	1	0	0	0	0
88	D0	1	0	0	0	0
88	D4	1	0	0	0	0
88	D6	1	0	0	0	0
88	D9	3	0	0	0	0
88	E1	1	0	0	0	0
88	L2	3	0	0	0	0
88	L3	5	0	0	0	0
88	L4	7	0	0	0	0
88	L7	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
88	L8	1	0	0	0	0
88	M0	5	0	0	0	0
88	M1	2	0	0	0	0
88	M3	3	0	0	0	0
88	M4	1	0	0	0	0
88	M5	4	0	0	0	0
88	M6	4	0	0	0	0
88	M7	10	0	0	0	0
88	M8	3	0	0	0	0
88	M9	2	0	0	0	0
88	N0	2	0	0	0	0
88	N1	1	0	0	0	0
88	N3	3	0	0	0	0
88	N6	2	0	0	0	0
88	N8	7	0	0	0	0
88	N9	1	0	0	0	0
88	O1	5	0	0	0	0
88	O2	4	0	0	0	0
88	O3	2	0	0	0	0
88	O4	1	0	0	0	0
88	O5	2	0	0	0	0
88	O7	6	0	0	0	0
88	Q0	2	0	0	0	0
88	Q2	3	0	0	0	0
88	S1	1	0	0	0	0
88	S2	1	0	0	0	0
88	S4	2	0	0	0	0
88	S6	1	0	0	0	0
88	S8	1	0	0	0	0
88	SM	1	0	0	0	0
88	c6	2	0	0	0	0
88	c7	1	0	0	0	0
88	c8	4	0	0	0	0
88	c9	3	0	0	0	0
88	d2	1	0	0	0	0
88	d3	2	0	0	0	0
88	d4	2	0	0	0	0
88	d5	1	0	0	0	0
88	d9	2	0	0	0	0
88	l2	6	0	0	0	0
88	l3	13	0	0	0	0
88	l4	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
88	l5	6	0	0	0	0
88	l7	7	0	0	0	0
88	l8	1	0	0	0	0
88	l9	3	0	0	0	0
88	m0	1	0	0	0	0
88	m3	1	0	0	0	0
88	m4	1	0	0	0	0
88	m5	3	0	0	0	0
88	m6	4	0	0	0	0
88	m7	8	0	0	0	0
88	m8	4	0	0	0	0
88	m9	1	0	0	0	0
88	n0	5	0	0	0	0
88	n1	3	0	0	0	0
88	n3	3	0	0	0	0
88	n6	1	0	0	0	0
88	n8	7	0	0	0	0
88	n9	2	0	0	0	0
88	o2	3	0	0	0	0
88	o3	4	0	0	0	0
88	o4	1	0	0	0	0
88	o6	1	0	0	0	0
88	o7	1	0	0	0	0
88	p0	1	0	0	0	0
88	q0	1	0	0	0	0
88	q1	2	0	0	0	0
88	q2	1	0	0	0	0
88	q3	1	0	0	0	0
88	s1	1	0	0	0	0
88	s4	1	0	0	0	0
88	s6	2	0	0	0	0
88	s8	4	0	0	0	0
88	sM	2	0	0	0	0
89	D6	1	0	0	0	0
89	D7	1	0	0	0	0
89	D9	1	0	0	0	0
89	E1	1	0	0	0	0
89	O7	1	0	0	0	0
89	Q0	1	0	0	1	0
89	Q2	1	0	0	2	0
89	Q3	1	0	0	0	0
89	d6	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
89	d7	1	0	0	0	0
89	d9	1	0	0	0	0
89	e1	1	0	0	0	0
89	o7	1	0	0	0	0
89	q0	1	0	0	1	0
89	q2	1	0	0	0	0
89	q3	1	0	0	0	0
90	A	7	0	7	0	0
90	B	7	0	7	2	0
All	All	414270	0	297569	14727	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 21.

All (14727) 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)
78:q2:17:CYS:SG	78:q2:17:CYS:CB	2.01	1.47
78:Q2:17:CYS:CB	78:Q2:17:CYS:SG	2.09	1.39
73:O7:87:SER:O	87:O7:102:OHX:N3	1.78	1.16
78:Q2:17:CYS:SG	89:Q2:501:ZN:ZN	1.39	1.11
78:Q2:17:CYS:CB	89:Q2:501:ZN:ZN	1.30	1.10
87:2:2062:OHX:N5	11:S9:8:TYR:O	1.87	1.08
78:q2:17:CYS:SG	78:q2:77:CYS:SG	2.53	1.06
11:s9:110:GLN:HE22	11:s9:126:ARG:HG2	1.17	1.05
78:q2:50:PHE:O	87:q2:502:OHX:N1	1.88	1.04
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.39	1.03
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.24	1.03
87:6:2041:OHX:N4	11:s9:8:TYR:O	1.93	1.01
36:1:128:G:N7	87:1:3793:OHX:N2	2.08	1.01
36:5:31:C:OP2	51:m5:188:ARG:NH2	1.95	1.00
41:L4:145:ILE:O	87:L4:401:OHX:N5	1.94	1.00
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.44	0.99
1:2:1529:C:OP1	7:S5:112:ARG:NH1	1.94	0.99
36:5:1192:C:N4	36:5:1300:G:OP2	1.96	0.99
1:2:1339:C:O2'	1:2:1341:A:N7	1.95	0.98
36:5:1073:U:H1'	65:n9:50:THR:HG22	1.45	0.98
80:6:1159:C:N3	87:6:1991:OHX:N5	2.11	0.97
36:1:781:G:N7	87:1:3478:OHX:N5	2.13	0.96
1:2:976:G:H1	1:2:1023:A:HO2'	1.11	0.96
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.47	0.96
38:4:79:A:H2'	38:4:80:A:H1'	1.45	0.96
36:5:1213:G:H4'	56:n0:90:MET:HG3	1.46	0.96
87:5:3609:OHX:N5	38:8:139:U:O4	1.99	0.96
1:2:992:A:H2	1:2:1012:U:H3	1.06	0.95
36:5:2853:A:H5'	47:m0:63:GLU:HB2	1.48	0.95
36:1:1639:C:OP2	70:O4:74:ARG:NH2	1.99	0.95
71:O5:85:THR:HG22	71:O5:88:LEU:H	1.29	0.95
36:1:2954:U:C5	86:A:3403:8AN:O2'	2.19	0.95
18:c6:93:HIS:HA	18:c6:97:VAL:HG13	1.48	0.94
50:m4:55:ARG:NH2	50:m4:76:ALA:O	2.01	0.94
87:1:3496:OHX:N6	44:L7:217:PRO:O	1.99	0.94
80:6:1087:A:H2'	80:6:1088:A:C8	2.03	0.94
36:5:652:G:OP2	87:5:3684:OHX:N4	2.01	0.94
78:Q2:50:PHE:O	87:Q2:502:OHX:N2	2.01	0.94
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.50	0.94
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.46	0.94
36:1:1591:G:OP1	70:O4:16:ARG:NH1	2.01	0.94
36:5:2869:U:O2	87:5:3705:OHX:N6	2.01	0.93
41:l4:329:PRO:O	41:l4:331:ALA:N	2.00	0.93
1:2:623:A:OP1	87:2:2057:OHX:N1	2.02	0.93
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.50	0.93
38:4:150:G:N7	87:4:206:OHX:N4	2.16	0.93
36:1:541:U:O4	87:1:3810:OHX:N5	2.01	0.93
2:S0:198:MET:HE1	19:C7:88:VAL:HG22	1.48	0.93
17:C5:69:GLU:OE1	87:C5:201:OHX:N4	2.01	0.93
7:s5:64:VAL:HG13	7:s5:89:ILE:HD11	1.49	0.93
13:c1:101:GLU:OE2	25:d3:16:ARG:NH2	2.01	0.93
47:m0:76:MET:HE1	47:m0:148:VAL:HA	1.50	0.93
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.47	0.93
80:6:1793:G:O2'	28:d6:5:ARG:NH2	2.02	0.93
1:2:833:U:O4	87:2:2076:OHX:N1	2.03	0.92
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.32	0.92
1:2:1492:A:HO2'	1:2:1493:A:H8	0.96	0.92
80:6:1636:C:H4'	80:6:1637:C:H5'	1.50	0.92
17:c5:138:PHE:O	87:c5:202:OHX:N2	2.02	0.92
80:6:760:A:OP2	87:6:1938:OHX:N3	2.03	0.92
36:5:145:G:O6	87:5:3520:OHX:N5	2.03	0.92
36:5:3231:U:O4	87:5:3804:OHX:N6	2.03	0.92
36:1:3246:G:O6	87:1:3650:OHX:N4	2.02	0.92
80:6:42:G:N7	87:6:2082:OHX:N6	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:484:C:H42	80:6:503:G:H1	1.14	0.91
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.02	0.91
1:2:320:U:H3'	1:2:321:C:H5''	1.50	0.91
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.04	0.91
17:c5:138:PHE:O	87:c5:202:OHX:N6	2.04	0.91
36:5:116:A:OP2	51:m5:2:GLY:N	2.03	0.91
36:1:3202:G:O6	87:1:3758:OHX:N1	2.03	0.91
36:1:3312:U:O4	87:1:3772:OHX:N6	2.04	0.91
21:c9:57:ARG:HG3	21:c9:57:ARG:HH11	1.35	0.91
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.33	0.91
36:1:2954:U:H5	86:A:3403:8AN:O2'	1.53	0.91
36:1:979:U:H1'	36:1:980:A:C8	2.07	0.90
1:2:1067:C:H5''	3:S1:150:VAL:HG13	1.53	0.90
36:1:764:U:O4	87:1:3500:OHX:N5	2.04	0.90
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.51	0.90
80:6:1150:G:O6	87:6:1969:OHX:N5	2.03	0.90
87:5:3504:OHX:N5	44:l7:217:PRO:HA	1.86	0.90
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.51	0.90
18:c6:55:VAL:HG21	18:c6:105:LEU:HG	1.53	0.90
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.03	0.90
36:1:1779:C:O2'	87:1:3773:OHX:N2	2.04	0.90
80:6:1552:U:OP2	17:c5:43:ARG:NH2	2.05	0.90
36:1:148:G:OP2	51:M5:4:TYR:OH	1.90	0.89
36:5:1611:G:H2'	36:5:1612:A:H8	1.37	0.89
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.06	0.89
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.52	0.89
36:1:1733:G:OP2	87:1:3805:OHX:N6	2.04	0.89
80:6:1588:G:H1	80:6:1608:U:H3	1.11	0.89
1:2:651:G:N7	87:2:1984:OHX:N6	2.21	0.89
36:1:3376:A:OP2	87:1:3443:OHX:N5	2.06	0.89
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.38	0.89
54:m8:120:GLU:OE2	54:m8:130:ARG:NH2	2.04	0.89
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.37	0.89
36:1:2836:C:H5	36:1:2852:C:H42	1.20	0.89
36:1:618:C:H5'	53:M7:169:THR:HG22	1.53	0.89
37:7:76:A:O2'	56:n0:50:LYS:NZ	2.06	0.89
36:5:1538:G:OP2	87:5:3799:OHX:N2	2.06	0.88
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.05	0.88
55:M9:23:TRP:CH2	55:M9:25:ASP:HB3	2.09	0.88
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.52	0.88
36:5:437:G:N7	87:5:3802:OHX:N6	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:701:U:H3	1:2:737:A:H61	1.21	0.88
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.56	0.88
18:C6:126:PRO:O	18:C6:128:LYS:NZ	2.07	0.88
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.56	0.88
1:2:1585:U:H3	1:2:1611:A:H2	1.16	0.88
36:5:2533:G:O6	87:5:3543:OHX:N4	2.06	0.87
87:5:3480:OHX:N4	51:m5:204:LYS:O	2.07	0.87
47:M0:215:GLU:OE2	87:M0:304:OHX:N6	2.06	0.87
36:5:1952:G:H1	36:5:2094:C:H42	1.22	0.87
76:q0:106:ARG:HB2	76:q0:106:ARG:HH11	1.39	0.87
80:6:74:U:H3'	80:6:75:U:H3'	1.56	0.87
80:6:793:A:H3'	80:6:794:U:H5'	1.57	0.87
24:d2:15:ASN:HD21	24:d2:71:LYS:HG3	1.36	0.87
47:m0:87:LEU:HD23	47:m0:138:VAL:HG23	1.54	0.87
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.07	0.87
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.08	0.87
36:1:1233:G:H1	36:1:1255:C:H42	1.20	0.87
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	1.89	0.87
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.56	0.87
15:c3:151:ASN:O	87:c3:201:OHX:N6	2.08	0.87
36:1:1951:C:H42	36:1:2095:G:H1	1.23	0.87
80:6:1402:G:OP2	19:c7:5:ARG:NH1	2.07	0.87
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.06	0.87
47:M0:220:GLN:O	87:M0:304:OHX:N1	2.08	0.87
80:6:161:U:OP2	8:s6:87:ARG:NH2	2.07	0.87
5:s3:40:ARG:HG2	22:d0:110:PRO:HB3	1.53	0.87
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.40	0.86
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.07	0.86
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.07	0.86
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.38	0.86
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.56	0.86
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.08	0.86
49:M3:165:SER:O	49:M3:167:PHE:N	2.07	0.86
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.09	0.86
36:1:3119:U:OP2	87:1:3428:OHX:N6	2.08	0.86
80:6:280:U:OP2	60:n4:113:LYS:NZ	2.09	0.86
5:s3:105:MET:HG2	5:s3:122:VAL:HG21	1.58	0.86
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.08	0.86
36:5:3134:A:OP1	87:5:3426:OHX:N5	2.07	0.86
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.56	0.86
80:6:1366:U:O4	87:6:2061:OHX:N3	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1429:G:H1'	22:d0:74:GLU:HG2	1.57	0.86
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.41	0.86
36:5:116:A:OP1	72:o6:36:ARG:NH1	2.08	0.86
36:5:2211:U:O4	87:5:3463:OHX:N4	2.08	0.86
87:5:3504:OHX:N3	44:l7:217:PRO:O	2.09	0.86
40:l3:10:ARG:NH1	40:l3:11:HIS:O	2.08	0.86
47:m0:216:TYR:O	87:m0:301:OHX:N4	2.08	0.86
1:2:1559:A:H5''	20:C8:135:GLY:HA3	1.55	0.86
80:6:235:G:H2'	80:6:236:A:H8	1.41	0.86
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.57	0.86
36:1:3165:A:H61	36:1:3285:C:H42	1.21	0.85
5:s3:75:LYS:HB3	81:c0:22:VAL:HG22	1.55	0.85
57:n1:118:GLU:OE2	57:n1:122:GLN:NE2	2.09	0.85
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.08	0.85
40:L3:346:THR:O	40:L3:348:ARG:N	2.08	0.85
36:5:2361:A:OP2	87:5:3684:OHX:N2	2.09	0.85
36:1:172:G:N7	87:1:3529:OHX:N5	2.25	0.85
19:C7:24:LEU:HD23	19:C7:34:LEU:HD13	1.55	0.85
36:1:3329:U:H5''	40:L3:308:MET:HE3	1.57	0.85
80:6:1011:G:OP2	87:6:1975:OHX:N3	2.09	0.85
80:6:1369:U:OP1	21:c9:119:LYS:NZ	2.09	0.85
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.09	0.85
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.58	0.85
36:1:540:U:OP2	87:1:3788:OHX:N4	2.09	0.85
36:1:2952:G:N3	86:A:3403:8AN:H2	1.92	0.85
36:1:3203:U:O4	87:1:3758:OHX:N3	2.10	0.85
46:L9:49:ASN:O	46:L9:51:GLN:N	2.08	0.85
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.59	0.85
80:6:1241:G:OP2	17:c5:77:ARG:NH1	2.09	0.85
36:5:155:G:H5''	36:5:156:G:C8	2.10	0.85
40:L3:173:GLN:O	40:L3:175:LYS:N	2.09	0.85
64:N8:96:LYS:O	64:N8:98:THR:N	2.10	0.85
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.55	0.85
21:C9:52:GLY:O	21:C9:54:PHE:N	2.09	0.85
80:6:1015:U:OP1	87:6:1910:OHX:N3	2.10	0.85
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.39	0.85
36:1:2580:A:O2'	87:1:3703:OHX:N2	2.09	0.85
17:c5:137:ARG:O	87:c5:202:OHX:N4	2.10	0.85
36:1:2688:U:OP1	42:L5:12:TYR:OH	1.94	0.85
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.09	0.85
69:o3:59:VAL:O	69:o3:61:GLY:N	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2953:U:O4'	86:A:3403:8AN:C2	2.25	0.84
80:6:1558:U:H3	17:c5:122:THR:HG22	1.42	0.84
47:m0:174:THR:OG1	47:m0:175:ASN:N	2.02	0.84
1:2:1542:G:N2	1:2:1569:A:OP2	2.10	0.84
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.09	0.84
80:6:895:G:H21	16:c4:38:THR:HG21	1.41	0.84
80:6:915:A:OP1	87:6:1925:OHX:N4	2.10	0.84
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.10	0.84
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.10	0.84
36:5:626:U:O4	87:5:3485:OHX:N4	2.10	0.84
36:5:1790:G:O6	87:5:3720:OHX:N4	2.09	0.84
41:l4:26:PHE:HD1	41:l4:130:ALA:HB2	1.41	0.84
3:S1:128:LYS:HE3	3:S1:132:ASP:HB3	1.60	0.84
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.10	0.84
36:5:3376:A:OP2	87:5:3435:OHX:N4	2.10	0.84
36:1:226:C:OP1	87:1:3806:OHX:N1	2.10	0.84
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.57	0.84
36:1:343:U:OP2	87:1:3420:OHX:N6	2.09	0.84
37:3:60:G:H2'	37:3:61:G:H8	1.40	0.84
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.10	0.84
36:5:1781:C:H2'	36:5:1782:U:H6	1.43	0.84
36:5:2242:A:H5'	39:l2:243:THR:HG23	1.59	0.84
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.10	0.84
80:6:1067:C:H2'	80:6:1068:C:H6	1.43	0.84
36:5:1919:G:N7	87:5:3574:OHX:N4	2.25	0.84
37:7:110:G:OP2	42:l5:279:LYS:NZ	2.11	0.84
80:6:1239:U:O4	87:6:1951:OHX:N1	2.10	0.84
51:m5:91:GLU:O	51:m5:93:LYS:NZ	2.09	0.84
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.60	0.84
36:1:2535:A:H61	36:1:2544:U:H3	1.25	0.84
80:6:1619:C:O2	30:d8:22:ARG:NH1	2.11	0.84
18:c6:97:VAL:CG2	18:c6:98:ASP:H	1.91	0.84
3:S1:181:LEU:O	3:S1:185:THR:N	2.11	0.83
47:M0:221:ALA:O	87:M0:304:OHX:N2	2.11	0.83
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.43	0.83
54:m8:170:ARG:HA	54:m8:174:ARG:HD2	1.59	0.83
36:5:1824:U:OP1	74:o8:3:ARG:NH2	2.11	0.83
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.43	0.83
36:5:2233:A:OP2	87:5:3463:OHX:N5	2.11	0.83
55:m9:4:LEU:HA	55:m9:7:GLN:HE21	1.42	0.83
36:5:3194:C:O2	36:5:3197:G:N2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.12	0.83
36:1:1196:C:O2	87:1:3531:OHX:N2	2.11	0.83
36:5:3274:A:H3'	36:5:3275:U:H5''	1.58	0.83
49:m3:140:SER:OG	49:m3:141:ALA:N	2.07	0.83
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.42	0.83
80:6:729:G:N7	87:6:2058:OHX:N5	2.26	0.83
36:5:2714:G:OP2	78:q2:10:THR:OG1	1.96	0.83
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.43	0.83
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.42	0.83
36:5:2444:C:H42	36:5:2503:G:H1	1.26	0.83
1:2:68:A:OP1	8:S6:160:ARG:NH1	2.11	0.83
1:2:434:G:N7	87:2:1926:OHX:N4	2.27	0.83
1:2:1720:G:O6	87:2:1961:OHX:N5	2.12	0.83
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.59	0.83
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.12	0.83
80:6:339:C:OP2	10:s8:10:LYS:NZ	2.12	0.83
80:6:1066:C:OP1	3:s1:151:LYS:NZ	2.12	0.83
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.10	0.83
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.61	0.82
36:1:2861:U:OP1	87:1:3403:OHX:N2	2.12	0.82
41:l4:145:ILE:O	87:l4:401:OHX:N4	2.12	0.82
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.43	0.82
61:n5:115:ARG:NH1	61:n5:119:THR:OG1	2.12	0.82
62:n6:39:LEU:HD13	62:n6:43:TYR:HE2	1.44	0.82
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.12	0.82
37:7:121:U:OP2	42:l5:265:TYR:OH	1.97	0.82
76:Q0:96:CYS:SG	76:Q0:99:CYS:SG	2.76	0.82
80:6:902:G:N1	16:c4:51:ASP:OD1	2.11	0.82
22:d0:41:ILE:HG13	22:d0:107:THR:HG21	1.61	0.82
33:e1:84:VAL:HG13	33:e1:85:TYR:HD1	1.42	0.82
18:C6:40:GLU:HA	18:C6:42:GLU:N	1.95	0.82
63:N7:26:VAL:HG11	63:N7:96:VAL:HB	1.61	0.82
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.45	0.82
1:2:1284:C:O2	87:2:1965:OHX:N4	2.12	0.82
4:s2:56:ILE:HG23	4:s2:61:LEU:HB2	1.61	0.82
36:5:1224:C:OP1	87:5:3785:OHX:N6	2.12	0.82
36:5:2278:C:OP1	87:5:3592:OHX:N6	2.12	0.82
39:l2:5:ILE:HG12	39:l2:8:GLN:HG3	1.62	0.82
36:5:437:G:H22	36:5:622:A:H61	1.24	0.82
36:5:2895:G:H2'	36:5:2896:A:H5''	1.61	0.82
39:l2:52:SER:HB3	39:l2:191:LEU:HD12	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1382:A:H5''	22:D0:60:THR:HG22	1.62	0.82
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.43	0.82
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.12	0.82
80:6:1445:G:N1	33:e1:87:THR:O	2.13	0.82
36:5:1898:G:OP2	87:5:3446:OHX:N5	2.13	0.82
59:n3:89:ASP:OD1	59:n3:91:VAL:HG12	1.78	0.82
36:1:2771:U:O2'	36:1:2772:C:O4'	1.98	0.82
39:L2:209:HIS:HD2	39:L2:211:HIS:H	1.28	0.82
54:M8:36:LEU:O	54:M8:40:THR:OG1	1.98	0.82
80:6:794:U:H4'	80:6:795:U:OP2	1.78	0.82
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.61	0.82
67:o1:75:ILE:HG12	67:o1:93:VAL:HG13	1.62	0.82
40:L3:58:ARG:NH1	40:L3:352:GLU:OE1	2.12	0.81
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.60	0.81
41:l4:93:MET:H	41:l4:93:MET:HE2	1.44	0.81
36:1:2393:G:H4'	40:L3:252:ILE:HG12	1.62	0.81
40:l3:346:THR:O	40:l3:348:ARG:N	2.12	0.81
40:l3:347:SER:HB3	40:l3:350:ALA:H	1.45	0.81
53:m7:32:THR:HG21	53:m7:87:SER:HB3	1.61	0.81
36:1:1466:G:O6	87:1:3415:OHX:N4	2.13	0.81
36:1:2278:C:OP1	87:1:3495:OHX:N3	2.13	0.81
36:1:2443:A:N6	36:1:2504:U:O4	2.13	0.81
42:L5:104:LEU:HD11	42:L5:108:ARG:HH21	1.44	0.81
36:5:1231:A:H5''	36:5:1232:C:H5'	1.60	0.81
47:m0:208:ASN:HB3	47:m0:211:ARG:HH11	1.44	0.81
53:m7:69:ARG:HG2	53:m7:79:THR:HG23	1.62	0.81
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.12	0.81
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.60	0.81
53:M7:116:HIS:HB3	53:M7:149:VAL:HG13	1.62	0.81
36:5:2522:G:O6	39:l2:70:ARG:NH2	2.14	0.81
54:m8:158:HIS:H	54:m8:186:VAL:HG12	1.45	0.81
1:2:318:U:O4	87:2:2009:OHX:N5	2.13	0.81
1:2:820:U:H2'	1:2:821:U:H4'	1.59	0.81
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.12	0.81
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.13	0.81
75:O9:10:LYS:HA	75:O9:13:MET:HE3	1.63	0.81
80:6:27:U:H2'	80:6:28:A:H8	1.45	0.81
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.12	0.81
72:o6:70:ARG:HD3	72:o6:84:LYS:HG2	1.61	0.81
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.13	0.81
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.60	0.81
41:L4:317:PRO:O	41:L4:319:LYS:N	2.14	0.81
36:5:1631:C:H5''	36:5:1632:A:H5''	1.60	0.81
76:q0:96:CYS:SG	76:q0:99:CYS:SG	2.78	0.81
1:2:104:A:OP2	1:2:308:C:N4	2.14	0.81
28:D6:9:GLY:HA3	28:D6:34:LYS:HE2	1.60	0.81
36:1:2311:G:OP2	87:1:3691:OHX:N1	2.13	0.81
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.12	0.81
28:d6:10:ARG:HB2	28:d6:34:LYS:HA	1.63	0.81
41:l4:138:ARG:HE	41:l4:240:PRO:HD2	1.45	0.81
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	1.98	0.81
80:6:437:A:OP1	87:6:2075:OHX:N6	2.13	0.81
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.13	0.81
36:1:3134:A:OP1	87:1:3438:OHX:N4	2.13	0.81
38:4:77:A:OP2	87:4:205:OHX:N2	2.14	0.81
80:6:1130:G:OP2	87:6:1967:OHX:N1	2.14	0.81
36:5:535:G:O6	87:5:3586:OHX:N2	2.14	0.81
40:l3:150:ARG:HH11	40:l3:150:ARG:HG2	1.46	0.81
4:S2:139:ILE:HG22	4:S2:141:ARG:HD2	1.62	0.81
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	1.60	0.81
9:S7:131:PHE:O	9:S7:133:THR:N	2.12	0.81
36:5:1481:A:O2'	36:5:1858:A:N3	2.13	0.81
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.14	0.80
36:1:899:U:O4	87:1:3737:OHX:N1	2.13	0.80
36:1:2812:C:H2'	36:1:2813:A:H8	1.47	0.80
36:5:3328:G:OP2	87:5:3537:OHX:N2	2.13	0.80
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.63	0.80
80:6:1203:A:OP2	87:6:1984:OHX:N4	2.15	0.80
83:m2:120:UNK:O	83:m2:122:UNK:N	2.14	0.80
18:C6:93:HIS:HA	18:C6:97:VAL:HG13	1.63	0.80
36:1:3066:U:O4	87:1:3686:OHX:N5	2.15	0.80
80:6:565:C:O2	87:6:2015:OHX:N4	2.15	0.80
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.62	0.80
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.63	0.80
13:c1:78:THR:HA	13:c1:84:ILE:HG22	1.62	0.80
16:c4:131:GLY:O	16:c4:133:ARG:N	2.14	0.80
64:n8:6:THR:HG22	64:n8:9:ARG:HG2	1.64	0.80
69:o3:69:GLY:HA3	69:o3:85:PHE:HA	1.63	0.80
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.64	0.80
36:1:1887:A:OP2	87:1:3429:OHX:N4	2.15	0.80
38:4:122:U:H2'	38:4:123:G:H8	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:36:THR:HB	10:s8:57:ALA:O	1.80	0.80
39:l2:144:ASN:ND2	39:l2:161:ASP:OD1	2.15	0.80
40:l3:290:ASP:OD2	40:l3:292:ALA:N	2.11	0.80
36:1:3301:U:O4	87:1:3433:OHX:N2	2.14	0.80
80:6:947:U:H2'	80:6:948:G:H8	1.46	0.80
3:S1:157:GLN:O	3:S1:159:SER:N	2.15	0.80
36:1:2274:U:OP2	87:1:3503:OHX:N4	2.14	0.80
53:M7:172:GLN:OE1	69:O3:60:ARG:NH1	2.15	0.80
36:5:549:U:H2'	36:5:550:A:C8	2.16	0.80
41:l4:203:ARG:HH21	41:l4:240:PRO:HB3	1.46	0.80
36:1:2236:G:OP1	87:1:3662:OHX:N6	2.14	0.80
36:1:3243:A:H4'	40:L3:95:THR:HG22	1.64	0.80
46:L9:49:ASN:O	46:L9:49:ASN:ND2	2.14	0.80
48:M1:94:ARG:O	48:M1:96:PHE:N	2.13	0.80
18:c6:115:THR:O	18:c6:117:LEU:N	2.15	0.80
36:5:653:A:H5'	36:5:2361:A:H5''	1.62	0.80
68:o2:19:ARG:HH11	68:o2:28:VAL:HG13	1.47	0.80
36:5:1345:G:N7	87:5:3568:OHX:N5	2.30	0.80
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.64	0.79
46:l9:8:GLN:HB2	46:l9:55:VAL:HG23	1.64	0.79
66:o0:84:LEU:H	66:o0:84:LEU:HD12	1.47	0.79
1:2:1508:U:O4	87:2:1909:OHX:N6	2.15	0.79
80:6:753:A:H62	6:s4:187:ARG:HH22	1.29	0.79
80:6:800:U:H2'	80:6:801:G:H8	1.47	0.79
17:c5:44:ARG:NH2	17:c5:82:ASN:O	2.14	0.79
34:sR:38:ARG:HA	34:sR:67:ILE:HG23	1.64	0.79
36:5:2728:G:O6	57:n1:78:LYS:NZ	2.14	0.79
43:l6:51:ARG:NH1	50:m4:114:ASP:OD2	2.15	0.79
24:D2:82:LYS:O	24:D2:84:GLY:N	2.15	0.79
24:d2:18:GLU:HG3	24:d2:69:LEU:HD23	1.63	0.79
16:c4:50:ALA:O	16:c4:52:ARG:N	2.15	0.79
36:5:1025:A:H3'	36:5:1026:A:H4'	1.64	0.79
1:2:1572:G:H1'	7:S5:185:ARG:HH12	1.47	0.79
36:1:1478:C:O2	36:1:1875:G:N2	2.15	0.79
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.21	0.79
80:6:1462:G:N7	20:c8:143:ARG:NH2	2.30	0.79
36:1:2254:U:H2'	36:1:2261:G:N2	1.97	0.79
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.63	0.79
36:5:1877:U:H5''	36:5:1878:G:H5'	1.64	0.79
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.63	0.79
47:m0:38:LYS:HG3	47:m0:41:ALA:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:356:G:OP2	87:6:1921:OHX:N3	2.16	0.79
1:2:584:C:H1'	32:E0:18:THR:HG21	1.64	0.79
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.15	0.79
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.63	0.79
80:6:1312:A:N7	19:c7:2:GLY:N	2.31	0.79
80:6:1537:C:N3	87:6:2016:OHX:N6	2.30	0.79
3:s1:190:PRO:HG2	3:s1:192:VAL:HG23	1.63	0.79
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.13	0.79
36:5:3214:U:OP2	50:m4:128:ARG:NH2	2.16	0.79
3:S1:117:TRP:HE1	3:S1:152:ARG:CZ	1.96	0.79
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	1.63	0.79
36:1:1752:A:OP2	87:1:3586:OHX:N5	2.16	0.79
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.00	0.79
73:O7:87:SER:O	87:O7:102:OHX:N5	2.15	0.79
80:6:363:G:OP1	87:6:1966:OHX:N1	2.15	0.79
80:6:1559:A:H5''	20:c8:135:GLY:HA3	1.64	0.79
80:6:1657:U:OP1	87:n3:202:OHX:N6	2.16	0.79
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.15	0.79
87:5:3632:OHX:N5	47:m0:112:GLN:O	2.16	0.79
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.15	0.79
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.65	0.79
4:s2:170:ILE:HB	4:s2:197:TYR:HB2	1.61	0.79
81:c0:54:TYR:CE2	81:c0:75:TYR:HB2	2.17	0.79
1:2:840:U:O4	87:2:2076:OHX:N4	2.16	0.78
3:S1:62:LYS:O	3:S1:64:ARG:N	2.13	0.78
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.65	0.78
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.65	0.78
80:6:340:U:H2'	80:6:341:A:C8	2.18	0.78
47:m0:119:TRP:O	87:m0:304:OHX:N5	2.15	0.78
69:o3:49:ILE:HG23	69:o3:100:ILE:HG13	1.63	0.78
1:2:895:G:H1	1:2:917:U:H3	1.32	0.78
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.16	0.78
1:2:1524:A:H2'	1:2:1525:A:C8	2.17	0.78
38:4:137:C:OP2	87:4:213:OHX:N5	2.16	0.78
73:O7:88:ALA:O	87:O7:102:OHX:N1	2.15	0.78
80:6:1534:G:OP2	27:d5:74:SER:OG	2.01	0.78
2:s0:119:ARG:HE	4:s2:240:LEU:HD23	1.47	0.78
58:n2:19:VAL:HG12	58:n2:105:LEU:HD22	1.65	0.78
80:6:149:C:OP1	26:d4:121:THR:OG1	2.00	0.78
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.01	0.78
59:n3:66:LYS:HE3	59:n3:68:GLU:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:991:G:O6	87:2:1970:OHX:N2	2.16	0.78
1:2:1254:U:OP2	14:C2:46:ARG:NH1	2.17	0.78
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.62	0.78
36:5:1098:A:O2'	57:n1:130:ARG:O	2.01	0.78
38:8:68:G:H1	38:8:91:C:H42	1.29	0.78
1:2:1488:G:H3'	1:2:1515:A:H61	1.46	0.78
1:2:1521:G:O2'	1:2:1523:G:OP2	2.00	0.78
36:1:1679:A:OP1	58:N2:94:ARG:NH1	2.16	0.78
54:M8:51:ALA:HA	54:M8:54:LEU:HG	1.66	0.78
36:5:1614:C:H2'	36:5:1615:C:H6	1.48	0.78
42:l5:211:LEU:HB3	42:l5:219:PHE:HB2	1.65	0.78
8:s6:98:ARG:NH2	8:s6:101:ILE:O	2.15	0.78
21:c9:37:VAL:HG11	21:c9:100:ILE:HD11	1.66	0.78
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.17	0.78
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.13	0.78
25:D3:27:ASN:OD1	25:D3:31:LYS:NZ	2.16	0.78
36:1:330:G:OP2	87:1:3582:OHX:N2	2.17	0.78
36:1:600:G:N7	87:1:3636:OHX:N1	2.31	0.78
38:4:124:G:H1	38:4:129:C:H42	1.32	0.78
42:L5:68:THR:HG22	42:L5:70:THR:H	1.48	0.78
42:L5:236:LEU:HD12	42:L5:239:ILE:HD12	1.66	0.78
71:O5:101:THR:HG23	71:O5:104:GLN:H	1.49	0.78
16:c4:103:ARG:HH12	28:d6:48:ALA:HB3	1.49	0.78
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.01	0.78
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.64	0.78
36:1:125:C:O2	36:1:143:G:N2	2.16	0.78
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.66	0.78
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.17	0.78
36:1:1814:A:OP1	87:1:3630:OHX:N2	2.17	0.78
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.16	0.78
36:5:76:G:H3'	49:m3:73:ARG:HD2	1.64	0.78
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.16	0.78
46:l9:120:ASP:OD1	46:l9:124:ARG:NH2	2.17	0.78
1:2:794:U:O2'	1:2:795:U:O2	2.00	0.78
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.64	0.78
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.15	0.78
87:1:3539:OHX:N4	38:4:139:U:O4	2.16	0.78
9:s7:66:SER:O	9:s7:68:ALA:N	2.17	0.78
36:5:438:A:H2'	36:5:494:G:H21	1.49	0.78
66:o0:22:LYS:HD3	66:o0:94:GLU:HG3	1.66	0.78
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.48	0.77
36:1:2794:G:N7	87:1:3471:OHX:N2	2.32	0.77
36:1:2889:C:O2	36:1:2914:G:N2	2.15	0.77
69:O3:75:HIS:HB3	69:O3:80:VAL:HG12	1.66	0.77
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.65	0.77
80:6:1595:U:H3	80:6:1600:A:H2	1.30	0.77
36:5:3035:A:OP2	87:5:3553:OHX:N5	2.17	0.77
1:2:393:C:OP2	10:S8:2:GLY:N	2.17	0.77
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.18	0.77
80:6:397:A:H5'	10:s8:51:GLY:H	1.48	0.77
21:c9:117:SER:HB2	21:c9:123:ARG:HB3	1.65	0.77
36:5:273:A:H2'	36:5:274:G:H8	1.49	0.77
62:n6:63:LYS:HE3	62:n6:97:ILE:HD13	1.66	0.77
73:o7:52:LYS:HA	73:o7:55:ARG:HD2	1.67	0.77
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.17	0.77
41:L4:138:ARG:O	41:L4:138:ARG:NH1	2.16	0.77
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.83	0.77
80:6:513:U:OP1	11:s9:133:HIS:NE2	2.18	0.77
17:c5:68:PRO:O	87:c5:201:OHX:N5	2.17	0.77
36:5:651:G:OP2	87:5:3684:OHX:N3	2.17	0.77
36:5:2195:C:OP2	87:5:3737:OHX:N4	2.17	0.77
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.18	0.77
36:5:1015:U:N3	36:5:1035:G:O6	2.14	0.77
36:5:2972:G:N7	87:5:3619:OHX:N3	2.32	0.77
51:m5:84:PRO:HA	51:m5:87:GLN:HB2	1.66	0.77
36:1:2526:C:O2'	45:L8:241:LYS:NZ	2.15	0.77
46:L9:22:SER:OG	46:L9:23:ARG:N	2.17	0.77
45:l8:65:LEU:HD12	51:m5:25:VAL:HG13	1.64	0.77
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.13	0.77
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.65	0.77
71:O5:31:LEU:HD13	71:O5:47:VAL:HG11	1.65	0.77
80:6:1081:A:O2'	80:6:1082:C:O5'	2.02	0.77
36:5:609:G:O6	41:l4:308:LYS:NZ	2.14	0.77
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.33	0.77
40:l3:116:ARG:HG2	40:l3:175:LYS:HB2	1.64	0.77
45:L8:186:LEU:HB3	45:L8:195:SER:HB3	1.67	0.77
55:M9:68:GLN:NE2	55:M9:72:GLU:OE1	2.17	0.77
80:6:399:A:N3	6:s4:3:ARG:NH1	2.32	0.77
36:5:1238:C:O2'	36:5:1239:C:OP1	2.03	0.77
78:q2:48:SER:O	87:q2:502:OHX:N3	2.18	0.77
5:S3:178:ARG:HE	5:S3:178:ARG:H	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1015:U:O4	36:1:1035:G:N1	2.15	0.77
36:1:2748:A:H1'	42:L5:36:LEU:HD23	1.67	0.77
76:q0:124:LYS:O	76:q0:126:LYS:NZ	2.17	0.77
1:2:1358:G:H2'	1:2:1359:C:C6	2.20	0.77
36:5:712:G:H2'	36:5:713:U:C6	2.20	0.77
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	1.67	0.77
47:m0:113:GLN:HG2	87:m0:302:OHX:N4	1.99	0.77
1:2:190:C:N4	1:2:196:G:O6	2.18	0.77
1:2:601:A:OP1	25:D3:110:LYS:NZ	2.16	0.77
48:M1:164:LYS:HE3	48:M1:171:VAL:HB	1.67	0.77
68:O2:9:ILE:HD11	68:O2:66:LEU:HB2	1.66	0.77
80:6:159:U:O2'	8:s6:87:ARG:NH1	2.17	0.77
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.16	0.77
36:5:3115:C:OP1	46:l9:62:ARG:NH2	2.16	0.77
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.18	0.77
53:m7:24:VAL:HB	53:m7:29:THR:HG21	1.65	0.77
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.18	0.76
1:2:422:G:N7	87:2:1988:OHX:N5	2.33	0.76
8:S6:24:ILE:O	8:S6:26:VAL:N	2.18	0.76
2:s0:120:LEU:HD21	2:s0:144:ILE:HD11	1.68	0.76
11:s9:65:LYS:HA	11:s9:70:LEU:HD11	1.68	0.76
42:l5:226:TYR:HE1	42:l5:236:LEU:HD11	1.50	0.76
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.67	0.76
36:1:944:C:H4'	68:O2:33:ARG:NH1	1.98	0.76
36:1:1584:U:H2'	36:1:1585:C:H6	1.49	0.76
17:c5:68:PRO:O	87:c5:201:OHX:N1	2.18	0.76
37:7:22:A:H1'	42:l5:272:TYR:CZ	2.21	0.76
1:2:1159:C:N3	87:2:1997:OHX:N4	2.34	0.76
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.18	0.76
65:N9:17:HIS:HA	65:N9:20:GLY:HA2	1.65	0.76
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.19	0.76
80:6:397:A:O3'	10:s8:50:GLY:HA2	1.86	0.76
36:5:679:U:O4	87:5:3517:OHX:N2	2.18	0.76
36:5:2662:G:H1	36:5:2708:C:H42	1.34	0.76
68:o2:12:LYS:NZ	68:o2:58:GLY:O	2.19	0.76
36:1:2273:G:O6	87:1:3691:OHX:N5	2.18	0.76
80:6:151:G:H1	80:6:163:G:H1	1.31	0.76
26:d4:29:HIS:O	26:d4:31:ASN:N	2.19	0.76
36:5:1081:U:OP1	87:5:3655:OHX:N3	2.19	0.76
42:l5:270:LYS:HE2	42:l5:273:ARG:HA	1.67	0.76
36:1:2718:U:OP2	87:1:3520:OHX:N3	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3103:A:OP2	87:1:3725:OHX:N1	2.19	0.76
36:5:289:A:H2'	36:5:290:G:H8	1.50	0.76
36:5:438:A:H2'	36:5:494:G:N2	2.01	0.76
47:m0:81:GLY:O	47:m0:83:ASP:N	2.17	0.76
1:2:818:C:N4	1:2:819:G:O6	2.18	0.76
36:1:128:G:O6	87:1:3793:OHX:N6	2.18	0.76
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.04	0.76
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.68	0.76
78:Q2:74:CYS:SG	78:Q2:77:CYS:SG	2.84	0.76
80:6:1724:U:OP2	87:6:2079:OHX:N1	2.18	0.76
80:6:1795:U:O2	28:d6:10:ARG:NE	2.15	0.76
36:5:343:U:OP2	87:5:3425:OHX:N3	2.18	0.76
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.19	0.76
51:m5:36:ILE:HG12	51:m5:64:VAL:HG23	1.66	0.76
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.67	0.76
36:1:530:G:O6	87:1:3457:OHX:N5	2.19	0.76
80:6:1207:C:H42	80:6:1456:C:H5	1.32	0.76
28:d6:26:CYS:HB2	28:d6:28:LYS:HB2	1.68	0.76
36:5:2895:G:H5''	36:5:3108:G:H5'	1.66	0.76
36:1:722:G:OP1	87:1:3777:OHX:N6	2.19	0.76
80:6:58:U:H3	80:6:89:G:H1	1.31	0.76
80:6:1181:U:O4	87:c5:202:OHX:N3	2.19	0.76
21:c9:40:SER:HB2	21:c9:96:ALA:HA	1.65	0.76
23:d1:86:SER:OG	29:d7:9:HIS:O	2.03	0.76
36:5:2759:U:H5''	36:5:2760:C:H5'	1.67	0.76
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	1.67	0.76
1:2:373:G:N7	87:2:2061:OHX:N6	2.34	0.76
1:2:1015:U:OP1	87:2:1923:OHX:N6	2.18	0.76
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.18	0.76
36:1:1383:G:O6	87:1:3417:OHX:N3	2.19	0.76
36:1:1443:G:O6	87:1:3514:OHX:N4	2.19	0.76
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.19	0.76
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	1.51	0.76
80:6:1492:A:HO2'	80:6:1493:A:H8	1.34	0.76
80:6:1502:G:N7	21:c9:102:ARG:NH2	2.34	0.76
16:c4:107:ARG:HH21	16:c4:107:ARG:HB2	1.50	0.76
1:2:471:A:OP2	87:2:1955:OHX:N4	2.18	0.76
19:C7:63:LYS:HE2	34:SR:284:ALA:HB2	1.66	0.76
36:1:959:C:H41	36:1:2801:A:H5''	1.51	0.76
36:1:964:G:HO2'	64:N8:41:HIS:HE2	1.30	0.76
48:M1:109:HIS:HE1	48:M1:122:ILE:HA	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	2.19	0.76
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.68	0.76
2:s0:79:ARG:NH1	2:s0:164:ASN:O	2.16	0.76
6:s4:93:ASP:O	6:s4:95:THR:N	2.19	0.76
75:o9:42:ARG:HH11	75:o9:42:ARG:HG2	1.51	0.76
7:S5:57:SER:O	7:S5:59:VAL:N	2.16	0.75
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.67	0.75
36:1:1064:A:H4'	36:1:1065:A:O5'	1.87	0.75
36:1:1807:G:H5'	63:N7:135:ARG:HH22	1.51	0.75
80:6:816:G:N2	9:s7:110:GLN:OE1	2.17	0.75
80:6:1067:C:H2'	80:6:1068:C:C6	2.20	0.75
36:5:801:A:OP1	64:n8:27:LYS:NZ	2.19	0.75
40:13:313:HIS:O	40:13:333:LYS:HE3	1.85	0.75
63:n7:22:LYS:HE3	63:n7:134:LEU:HB2	1.68	0.75
64:n8:128:ARG:NH2	64:n8:149:ALA:O	2.18	0.75
78:Q2:17:CYS:SG	78:Q2:77:CYS:SG	2.85	0.75
13:c1:132:SER:O	13:c1:134:THR:N	2.19	0.75
30:d8:13:ILE:HB	30:d8:29:ARG:HG2	1.69	0.75
36:5:1759:C:N4	36:5:1766:G:O6	2.14	0.75
37:7:32:U:O4	37:7:45:A:N6	2.18	0.75
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.19	0.75
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.68	0.75
36:1:1404:G:OP2	68:O2:11:LYS:NZ	2.18	0.75
18:c6:109:PHE:O	18:c6:113:ASP:N	2.18	0.75
27:d5:49:ARG:NH2	27:d5:53:GLU:OE2	2.19	0.75
36:5:277:G:OP1	87:5:3422:OHX:N6	2.20	0.75
36:5:1192:C:H5	87:5:3593:OHX:N5	1.85	0.75
47:m0:14:ASN:O	47:m0:128:ARG:NH2	2.18	0.75
1:2:520:A:H2'	1:2:521:A:C8	2.21	0.75
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.18	0.75
7:S5:37:GLN:HB3	18:C6:53:LEU:HB3	1.68	0.75
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.17	0.75
51:M5:149:ASN:OD1	87:M5:301:OHX:N2	2.20	0.75
57:N1:132:PRO:O	57:N1:134:GLN:NE2	2.18	0.75
2:s0:76:ILE:HG12	2:s0:98:ILE:HB	1.67	0.75
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.19	0.75
36:5:3364:C:OP1	87:5:3443:OHX:N1	2.19	0.75
63:n7:135:ARG:HB3	63:n7:135:ARG:HH21	1.50	0.75
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.20	0.75
2:S0:70:PRO:O	2:S0:95:ALA:N	2.17	0.75
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.69	0.75
3:s1:85:LYS:HB3	3:s1:101:HIS:HB3	1.68	0.75
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.22	0.75
1:2:560:U:H2'	1:2:561:G:H8	1.51	0.75
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	1.69	0.75
58:N2:49:ASN:O	58:N2:49:ASN:ND2	2.19	0.75
26:d4:125:LEU:O	26:d4:128:LYS:HB2	1.86	0.75
36:5:2983:C:OP1	87:5:3773:OHX:N6	2.20	0.75
42:l5:238:ASP:O	42:l5:242:SER:HB3	1.85	0.75
52:m6:110:PRO:O	52:m6:113:ASP:N	2.17	0.75
1:2:1598:U:OP1	87:2:1954:OHX:N6	2.20	0.75
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.68	0.75
36:1:352:A:H61	36:1:365:A:H5''	1.50	0.75
36:1:1565:G:N2	36:1:1574:C:N3	2.34	0.75
80:6:1050:G:O6	87:6:2091:OHX:N4	2.19	0.75
36:5:3064:U:OP2	87:5:3777:OHX:N5	2.19	0.75
44:l7:83:LEU:HD22	44:l7:84:VAL:H	1.52	0.75
72:o6:4:LYS:HD2	72:o6:14:GLY:HA3	1.69	0.75
78:q2:38:GLN:HE21	78:q2:38:GLN:HA	1.50	0.75
1:2:205:U:O4	87:2:1946:OHX:N3	2.19	0.75
36:1:2213:A:H2'	36:1:2214:A:C8	2.22	0.75
80:6:530:C:O2	26:d4:61:ARG:NH2	2.20	0.75
36:5:2288:G:OP1	87:5:3461:OHX:N4	2.19	0.75
36:5:2996:U:OP1	36:5:2996:U:H4'	1.84	0.75
2:s0:52:LYS:NZ	23:d1:82:VAL:O	2.14	0.75
36:5:2607:G:OP1	39:l2:233:GLN:NE2	2.18	0.75
36:5:3019:U:O4	87:5:3487:OHX:N2	2.20	0.75
39:l2:153:GLY:HA3	39:l2:251:LYS:HD3	1.69	0.75
59:n3:87:ARG:HH22	59:n3:137:VAL:HG22	1.50	0.75
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.68	0.75
1:2:651:G:O6	87:2:1984:OHX:N4	2.20	0.74
1:2:1681:A:H2'	1:2:1682:U:H5'	1.69	0.74
20:C8:123:ARG:HG3	20:C8:133:VAL:HG11	1.69	0.74
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.20	0.74
80:6:21:U:H2'	80:6:22:A:H8	1.51	0.74
2:s0:84:ARG:HH21	2:s0:201:LEU:HD12	1.51	0.74
11:s9:52:ILE:HG23	11:s9:76:LEU:HD11	1.67	0.74
36:5:3318:G:OP2	87:5:3644:OHX:N5	2.20	0.74
61:n5:110:VAL:HG22	61:n5:124:VAL:HG13	1.67	0.74
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.69	0.74
1:2:1485:C:OP1	87:2:2071:OHX:N6	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.20	0.74
36:1:1841:A:H2	75:O9:45:ARG:HH22	1.33	0.74
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.69	0.74
41:L4:292:SER:OG	41:L4:293:SER:N	2.17	0.74
47:M0:142:ASP:OD1	47:M0:178:ARG:NH2	2.18	0.74
36:5:84:U:O2'	36:5:101:G:O6	2.04	0.74
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.22	0.74
1:2:1550:A:OP2	17:C5:42:ARG:NH2	2.18	0.74
3:S1:62:LYS:HD2	3:S1:91:VAL:HB	1.69	0.74
19:C7:5:ARG:HB2	19:C7:10:LYS:HE2	1.68	0.74
71:O5:10:ARG:NH1	71:O5:60:GLU:OE2	2.19	0.74
8:s6:153:VAL:HG21	8:s6:175:ILE:HG21	1.69	0.74
36:5:1598:G:OP2	70:o4:31:ARG:NH2	2.15	0.74
46:l9:77:ASN:HA	46:l9:80:THR:HG23	1.68	0.74
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.20	0.74
78:q2:46:LYS:O	87:q2:502:OHX:N3	2.20	0.74
8:S6:153:VAL:O	8:S6:155:ASP:N	2.19	0.74
36:1:2557:A:H5'	63:N7:135:ARG:HH11	1.53	0.74
53:M7:25:SER:O	53:M7:29:THR:HG23	1.86	0.74
29:d7:37:CYS:O	29:d7:39:GLY:N	2.20	0.74
34:sR:177:MET:HE1	34:sR:193:ILE:HG13	1.69	0.74
36:5:408:A:OP1	87:5:3604:OHX:N6	2.20	0.74
36:5:518:G:OP2	36:5:518:G:N2	2.17	0.74
36:5:1833:G:OP1	75:o9:10:LYS:NZ	2.16	0.74
1:2:149:C:OP1	26:D4:121:THR:OG1	2.04	0.74
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.19	0.74
1:2:1413:U:O2	87:2:1950:OHX:N4	2.21	0.74
1:2:1592:A:H2'	1:2:1593:A:C8	2.22	0.74
36:1:825:U:O4	87:1:3474:OHX:N3	2.20	0.74
38:4:83:C:H1'	38:4:85:G:H21	1.50	0.74
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	1.68	0.74
2:s0:109:ASN:H	4:s2:64:LYS:NZ	1.85	0.74
49:m3:157:ARG:NH1	64:n8:146:GLU:OE2	2.21	0.74
36:1:1790:G:O6	87:1:3726:OHX:N4	2.21	0.74
80:6:761:G:OP1	11:s9:54:ARG:NH2	2.20	0.74
80:6:1282:U:OP1	87:6:1991:OHX:N4	2.20	0.74
18:C6:32:ASN:N	18:C6:67:VAL:O	2.16	0.74
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.20	0.74
54:M8:145:ASN:HD22	54:M8:150:VAL:HG11	1.53	0.74
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	1.68	0.74
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:66:U:H5	8:s6:173:PRO:HG3	1.52	0.74
80:6:355:G:OP2	87:6:1921:OHX:N5	2.21	0.74
80:6:538:A:H8	80:6:543:C:H41	1.35	0.74
80:6:1571:C:OP2	87:6:2016:OHX:N2	2.21	0.74
48:m1:168:ASP:OD1	87:m1:201:OHX:N3	2.20	0.74
36:1:1541:G:OP2	87:1:3558:OHX:N5	2.21	0.74
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.21	0.74
80:6:1041:G:OP1	87:6:2038:OHX:N4	2.21	0.74
80:6:1227:A:H4'	80:6:1228:G:H5'	1.69	0.74
34:sR:164:ASP:O	34:sR:166:SER:N	2.20	0.74
36:5:3043:C:OP2	59:n3:48:ARG:NH2	2.21	0.74
36:5:3122:A:N1	46:l9:70:THR:HG21	2.02	0.74
40:l3:188:ILE:H	40:l3:188:ILE:HD12	1.53	0.74
1:2:322:G:OP1	87:2:1971:OHX:N4	2.20	0.74
40:L3:3:HIS:ND1	40:L3:3:HIS:O	2.21	0.74
3:s1:35:PRO:HB3	3:s1:231:LEU:HD11	1.70	0.74
1:2:1544:U:OP1	20:C8:136:GLN:NE2	2.21	0.74
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.69	0.74
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.20	0.74
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.21	0.74
41:L4:10:SER:OG	41:L4:13:GLY:O	2.05	0.74
41:L4:89:ALA:O	41:L4:91:GLY:N	2.20	0.74
68:O2:4:LEU:HD12	68:O2:5:PRO:HD3	1.70	0.74
80:6:1471:A:OP1	7:s5:185:ARG:NH1	2.21	0.74
36:5:339:C:OP1	36:5:1380:G:O2'	2.04	0.74
36:5:1875:G:OP2	55:m9:20:ARG:HG2	1.87	0.74
76:q0:106:ARG:HB2	76:q0:106:ARG:NH1	2.01	0.74
1:2:1594:G:H5'	31:D9:33:LYS:HE3	1.69	0.73
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.69	0.73
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.68	0.73
36:1:2209:U:OP2	36:1:2209:U:H6	1.69	0.73
38:4:10:A:H2'	38:4:11:C:C6	2.23	0.73
80:6:1799:U:H4'	80:6:1800:A:H2'	1.68	0.73
3:s1:36:SER:HA	3:s1:41:ARG:HE	1.53	0.73
47:m0:72:ALA:HB2	47:m0:155:ALA:HB2	1.69	0.73
63:n7:16:GLY:O	63:n7:18:TYR:N	2.20	0.73
1:2:17:C:H2'	1:2:18:C:C6	2.23	0.73
1:2:1282:U:OP1	87:2:1997:OHX:N5	2.21	0.73
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.70	0.73
17:C5:81:ARG:HH12	17:C5:120:SER:HB3	1.54	0.73
18:C6:55:VAL:HG21	18:C6:105:LEU:HG	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.70	0.73
36:1:542:G:O6	87:1:3810:OHX:N5	2.21	0.73
36:1:1483:G:O6	70:O4:4:ARG:NH2	2.17	0.73
47:M0:19:LYS:HG3	47:M0:26:VAL:HG13	1.69	0.73
36:5:2666:C:H2'	36:5:2667:A:H5''	1.70	0.73
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.34	0.73
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.70	0.73
36:1:528:U:H2'	36:1:529:A:C8	2.22	0.73
40:L3:108:GLU:O	40:L3:134:SER:OG	2.05	0.73
80:6:340:U:H2'	80:6:341:A:H8	1.53	0.73
80:6:393:C:OP2	10:s8:2:GLY:N	2.22	0.73
8:s6:98:ARG:HD3	8:s6:99:GLY:H	1.54	0.73
51:m5:8:GLU:HG3	51:m5:50:ARG:HH12	1.53	0.73
1:2:1620:C:OP2	87:2:2078:OHX:N6	2.20	0.73
67:O1:77:ARG:HD2	67:O1:89:LEU:HD23	1.70	0.73
80:6:1241:G:P	17:c5:77:ARG:HH12	2.10	0.73
80:6:1294:G:O6	80:6:1303:U:N3	2.15	0.73
80:6:1518:C:OP2	87:6:1997:OHX:N1	2.21	0.73
1:2:1490:C:H4'	1:2:1491:U:OP1	1.88	0.73
5:S3:127:MET:HE1	5:S3:133:GLY:HA2	1.70	0.73
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.02	0.73
18:c6:82:ARG:HH22	18:c6:114:ARG:HG3	1.52	0.73
38:8:95:G:OP2	73:o7:72:ARG:NH1	2.21	0.73
21:C9:63:ARG:HG3	21:C9:67:MET:HE1	1.71	0.73
2:s0:90:ALA:HA	2:s0:95:ALA:HB3	1.68	0.73
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.71	0.73
13:c1:21:ASN:OD1	13:c1:21:ASN:N	2.20	0.73
36:5:1540:U:OP1	87:5:3594:OHX:N2	2.21	0.73
54:m8:180:ARG:HH11	54:m8:185:LYS:HB3	1.53	0.73
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.54	0.73
1:2:329:G:H5''	10:S8:98:LYS:HB3	1.70	0.73
1:2:851:U:H2'	1:2:852:C:C6	2.23	0.73
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.21	0.73
9:S7:35:LYS:O	9:S7:37:GLU:N	2.21	0.73
31:D9:5:ASN:HB3	31:D9:7:TRP:NE1	2.04	0.73
36:1:385:A:H2'	36:1:386:A:C8	2.24	0.73
36:1:2373:A:N7	36:1:2867:C:H1'	2.04	0.73
2:s0:157:ASP:N	2:s0:157:ASP:OD1	2.22	0.73
34:sR:184:ASN:HD22	34:sR:185:GLN:H	1.36	0.73
36:5:1819:U:O4	87:5:3552:OHX:N3	2.21	0.73
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:224:ILE:HG23	56:m0:36:ILE:HG12	1.69	0.73
45:l8:161:GLU:OE1	51:m5:26:ARG:NH1	2.21	0.73
48:m1:90:GLN:HG2	48:m1:170:ASP:HB2	1.71	0.73
86:A:3402:C:N3	86:A:3403:8AN:N6	2.36	0.73
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.71	0.73
36:1:2611:U:H2'	36:1:2612:U:H6	1.53	0.73
40:L3:139:GLN:O	40:L3:141:GLY:N	2.21	0.73
41:L4:351:PRO:HA	44:L7:71:ALA:HA	1.70	0.73
47:M0:216:TYR:HA	87:M0:303:OHX:N5	2.04	0.73
80:6:1507:G:O6	87:6:2084:OHX:N3	2.22	0.73
48:m1:54:VAL:HG23	48:m1:59:ILE:HD11	1.71	0.73
1:2:1240:U:OP2	87:2:2033:OHX:N1	2.22	0.73
1:2:1487:A:H2'	1:2:1488:G:H8	1.54	0.73
25:D3:91:GLY:O	25:D3:93:LEU:N	2.21	0.73
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.70	0.73
36:1:562:C:H2'	36:1:563:U:C6	2.24	0.73
36:1:3276:G:H22	69:O3:60:ARG:HH22	1.35	0.73
41:L4:338:LYS:O	41:L4:340:GLY:N	2.22	0.73
80:6:79:C:OP1	8:s6:159:ARG:NH2	2.18	0.73
2:s0:33:GLN:HG3	2:s0:149:LEU:O	1.89	0.73
42:l5:270:LYS:HG3	42:l5:273:ARG:CB	2.19	0.73
45:l8:244:ALA:HA	45:l8:247:ASP:HB2	1.69	0.73
1:2:1670:G:O6	87:2:2087:OHX:N5	2.21	0.73
80:6:67:A:O2'	80:6:69:G:OP1	2.06	0.73
80:6:653:C:N4	80:6:677:G:H1	1.86	0.73
80:6:947:U:H2'	80:6:948:G:C8	2.24	0.73
80:6:1034:C:HO2'	24:d2:2:THR:N	1.87	0.73
49:m3:93:ILE:HG22	49:m3:94:GLY:H	1.54	0.73
1:2:1387:G:OP1	19:C7:32:LYS:NZ	2.22	0.72
1:2:1738:U:H2'	1:2:1739:C:C6	2.23	0.72
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.21	0.72
36:1:1408:G:OP2	68:O2:31:ASN:ND2	2.22	0.72
80:6:782:U:OP2	87:6:2056:OHX:N1	2.22	0.72
20:c8:127:HIS:CD2	20:c8:133:VAL:HG21	2.24	0.72
33:e1:126:CYS:HB3	33:e1:130:VAL:HG21	1.71	0.72
36:5:58:G:H4'	51:m5:155:VAL:HG12	1.69	0.72
36:5:510:G:O6	87:5:3525:OHX:N2	2.22	0.72
40:l3:183:LEU:O	40:l3:191:LYS:NZ	2.22	0.72
42:l5:122:VAL:O	42:l5:124:GLU:N	2.20	0.72
1:2:768:C:H1'	11:S9:143:ILE:HG21	1.71	0.72
1:2:1138:A:H2'	1:2:1139:A:H8	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:5:HIS:HB3	15:C3:117:LEU:HD13	1.71	0.72
16:C4:50:ALA:O	16:C4:52:ARG:N	2.22	0.72
36:1:1477:A:OP1	36:1:3075:G:O2'	2.06	0.72
41:L4:145:ILE:HD11	41:L4:148:ILE:HG13	1.70	0.72
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.30	0.72
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.22	0.72
87:5:3507:OHX:N5	55:m9:87:ALA:O	2.23	0.72
34:SR:170:ILE:HG21	34:SR:211:ILE:HD11	1.71	0.72
1:2:1597:A:OP1	31:D9:19:ARG:NH2	2.22	0.72
9:S7:69:GLY:HA2	9:S7:72:LYS:HD2	1.72	0.72
87:1:3751:OHX:N6	70:O4:64:THR:OG1	2.22	0.72
80:6:218:A:H2'	80:6:219:A:H5''	1.70	0.72
80:6:518:A:N6	80:6:533:U:O4	2.14	0.72
80:6:1379:C:H5'	18:c6:10:PHE:CE2	2.24	0.72
23:d1:3:ASN:HD21	23:d1:7:GLN:HB3	1.54	0.72
84:p0:102:SER:OG	84:p0:103:ASN:N	2.21	0.72
86:B:3403:8AN:N3'	90:B:3501:PRO:C	2.47	0.72
36:1:355:A:N1	41:L4:82:THR:OG1	2.22	0.72
42:L5:64:ILE:HD13	42:L5:109:THR:HG21	1.71	0.72
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.71	0.72
51:M5:53:TYR:HD1	51:M5:133:ILE:HD13	1.54	0.72
80:6:405:C:OP1	87:6:1911:OHX:N5	2.21	0.72
15:c3:83:GLU:HG3	15:c3:84:ILE:HD13	1.71	0.72
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.21	0.72
41:l4:156:LEU:O	41:l4:158:SER:N	2.22	0.72
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.71	0.72
48:M1:82:ARG:HG2	48:M1:112:LEU:HB2	1.71	0.72
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	1.90	0.72
78:Q2:61:LYS:NZ	78:Q2:61:LYS:HB3	2.03	0.72
80:6:75:U:O2'	80:6:76:A:O5'	2.07	0.72
80:6:653:C:H42	80:6:677:G:H1	1.35	0.72
80:6:691:C:OP1	80:6:696:C:N4	2.23	0.72
36:5:1019:G:N7	87:5:3769:OHX:N5	2.37	0.72
36:5:1717:U:H2'	36:5:1718:G:C8	2.24	0.72
36:5:2897:A:H2'	36:5:2899:C:H5''	1.72	0.72
49:m3:46:ILE:HG23	49:m3:49:ARG:HB2	1.72	0.72
50:m4:22:LEU:HB3	50:m4:64:VAL:HG13	1.71	0.72
53:m7:132:ALA:O	53:m7:135:ARG:NH2	2.22	0.72
1:2:1483:A:H2'	1:2:1484:G:C8	2.25	0.72
36:1:75:G:H5''	49:M3:58:VAL:HG13	1.72	0.72
80:6:1253:U:O4	33:e1:97:LYS:NZ	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1537:C:N3	87:6:2016:OHX:N5	2.37	0.72
80:6:1734:U:O4	87:6:1978:OHX:N1	2.21	0.72
36:5:1447:G:O2'	36:5:2355:G:O6	2.05	0.72
37:7:91:G:H2'	37:7:92:A:C8	2.24	0.72
48:m1:94:ARG:O	48:m1:96:PHE:N	2.23	0.72
64:n8:73:LEU:HB2	64:n8:109:TYR:CD2	2.24	0.72
1:2:57:G:O6	87:2:1924:OHX:N3	2.22	0.72
36:1:97:U:O4	49:M3:11:LYS:NZ	2.20	0.72
36:1:531:G:H2'	36:1:532:A:C8	2.25	0.72
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.55	0.72
48:M1:21:ILE:HG13	48:M1:37:LEU:HD11	1.71	0.72
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.70	0.72
36:5:1393:A:N3	36:5:1419:A:O2'	2.22	0.72
36:5:3103:A:OP2	87:5:3672:OHX:N2	2.22	0.72
87:5:3650:OHX:N3	38:8:43:A:OP1	2.22	0.72
62:n6:52:ARG:HA	62:n6:70:ILE:HG22	1.71	0.72
1:2:1487:A:H2'	1:2:1488:G:C8	2.24	0.72
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.23	0.72
36:1:1367:G:OP1	68:O2:45:ARG:NH2	2.22	0.72
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.72	0.72
15:C3:151:ASN:O	87:C3:201:OHX:N6	2.22	0.72
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.23	0.72
45:L8:78:PHE:C	45:L8:80:TYR:H	1.97	0.72
3:s1:113:MET:HE2	3:s1:142:PHE:HE2	1.55	0.72
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.06	0.72
34:sR:80:ALA:HB3	34:sR:92:TRP:HB2	1.70	0.72
36:5:835:G:O2'	36:5:857:G:N2	2.14	0.72
36:5:2569:A:H4'	36:5:2570:U:H5'	1.72	0.72
38:8:70:G:O6	87:8:212:OHX:N1	2.23	0.72
39:l2:178:PRO:HD2	79:q3:26:VAL:HG23	1.72	0.72
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.25	0.72
47:m0:85:PHE:HA	47:m0:140:THR:HG22	1.72	0.72
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.72	0.72
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.23	0.71
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.72	0.71
36:1:1819:U:O4	87:1:3580:OHX:N6	2.22	0.71
36:1:2611:U:H2'	36:1:2612:U:C6	2.24	0.71
39:L2:79:ASN:HD22	39:L2:165:VAL:HG22	1.55	0.71
50:M4:36:VAL:HB	50:M4:45:LEU:HD23	1.71	0.71
26:d4:27:VAL:HG11	26:d4:35:VAL:HG11	1.72	0.71
29:d7:30:SER:HB2	29:d7:48:SER:OG	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:18:G:O6	87:5:3609:OHX:N6	2.23	0.71
36:5:1804:A:H2'	36:5:1805:C:C6	2.25	0.71
41:14:144:LYS:O	87:14:401:OHX:N1	2.22	0.71
1:2:1367:G:O6	87:2:1990:OHX:N5	2.24	0.71
36:1:1658:G:H2'	36:1:1659:U:H6	1.54	0.71
36:1:3343:G:H2'	36:1:3361:G:N2	2.04	0.71
68:O2:27:ARG:HG3	68:O2:28:VAL:HG23	1.71	0.71
36:5:398:A:O2'	36:5:1416:C:OP1	2.06	0.71
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.54	0.71
36:5:1879:A:H2'	36:5:1879:A:N3	2.05	0.71
40:l3:76:VAL:HG12	40:l3:325:LYS:HA	1.72	0.71
1:2:1041:G:H2'	1:2:1042:G:C8	2.25	0.71
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.22	0.71
18:C6:83:GLN:HE22	18:C6:119:ALA:HB2	1.54	0.71
80:6:138:A:N6	80:6:266:A:H61	1.88	0.71
7:s5:222:LYS:HA	7:s5:225:ARG:HH11	1.55	0.71
25:d3:102:VAL:HG12	25:d3:127:VAL:HG13	1.71	0.71
34:sR:66:HIS:HB3	34:sR:85:TRP:HB2	1.72	0.71
36:5:2560:C:O2	87:5:3533:OHX:N2	2.24	0.71
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.23	0.71
37:3:60:G:H2'	37:3:61:G:C8	2.25	0.71
50:M4:21:VAL:HG13	50:M4:63:VAL:HG21	1.72	0.71
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.54	0.71
80:6:246:G:H21	13:c1:39:GLY:HA3	1.55	0.71
80:6:683:C:OP1	87:6:2065:OHX:N4	2.23	0.71
44:l7:73:GLY:O	57:n1:143:THR:HB	1.90	0.71
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.24	0.71
1:2:1154:G:N7	87:2:2018:OHX:N1	2.37	0.71
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.30	0.71
71:O5:44:ILE:HA	71:O5:47:VAL:HG12	1.72	0.71
80:6:484:C:N4	80:6:503:G:H1	1.86	0.71
80:6:755:A:O2'	80:6:756:A:O4'	2.08	0.71
80:6:987:G:O6	87:6:1974:OHX:N4	2.24	0.71
18:c6:97:VAL:HG22	18:c6:98:ASP:H	1.55	0.71
24:d2:15:ASN:ND2	24:d2:71:LYS:HG3	2.06	0.71
36:5:269:G:H5''	51:m5:14:LYS:HE2	1.72	0.71
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	1.72	0.71
76:q0:99:CYS:SG	89:q0:201:ZN:ZN	1.77	0.71
1:2:992:A:H2	1:2:1012:U:N3	1.86	0.71
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.54	0.71
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.90	0.71
8:s6:12:SER:HB3	8:s6:124:LEU:HD12	1.73	0.71
36:5:3242:G:H5''	36:5:3245:A:C8	2.25	0.71
51:m5:115:VAL:HG22	51:m5:134:LEU:HD23	1.71	0.71
1:2:1130:G:OP2	87:2:1953:OHX:N2	2.24	0.71
1:2:1257:U:H2'	12:C0:2:LEU:HD12	1.72	0.71
1:2:1592:A:H2'	1:2:1593:A:H8	1.54	0.71
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.07	0.71
36:1:2369:G:H2'	36:1:2370:G:C8	2.25	0.71
36:1:2503:G:H1'	36:1:2504:U:H5	1.55	0.71
40:L3:214:MET:HE2	40:L3:350:ALA:HB2	1.73	0.71
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	1.72	0.71
68:O2:19:ARG:HH11	68:O2:28:VAL:HG13	1.55	0.71
80:6:2:A:H2	4:s2:199:GLN:HE21	1.38	0.71
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.73	0.71
36:1:1144:U:H1'	36:1:1145:G:C8	2.25	0.71
36:1:2169:G:O6	87:1:3449:OHX:N4	2.23	0.71
36:1:2395:G:H4'	40:L3:258:ALA:HB1	1.72	0.71
36:1:2842:U:OP1	36:1:2844:C:N4	2.23	0.71
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.24	0.71
2:s0:130:ALA:HA	2:s0:133:ILE:HG13	1.73	0.71
3:s1:144:ARG:NH2	3:s1:207:LEU:O	2.23	0.71
20:c8:24:GLY:O	20:c8:59:GLY:N	2.23	0.71
36:5:147:U:N3	45:l8:158:ASP:O	2.22	0.71
36:5:838:G:O6	79:q3:4:ARG:NH2	2.23	0.71
36:5:1345:G:O6	87:5:3568:OHX:N2	2.23	0.71
36:5:1781:C:H2'	36:5:1782:U:C6	2.26	0.71
40:l3:226:PHE:HE2	40:l3:267:ALA:HB1	1.56	0.71
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.72	0.71
64:n8:3:SER:O	64:n8:6:THR:HB	1.91	0.71
64:n8:82:ILE:O	64:n8:87:ARG:NH2	2.21	0.71
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.21	0.71
1:2:912:U:H4'	1:2:913:G:H3'	1.71	0.71
36:1:1362:G:H4'	44:L7:159:GLN:O	1.91	0.71
36:1:2717:U:OP1	87:1:3520:OHX:N6	2.23	0.71
40:L3:35:ASP:OD2	40:L3:191:LYS:NZ	2.24	0.71
34:sR:52:GLN:HG2	34:sR:53:LYS:H	1.55	0.71
37:7:28:C:H5''	48:m1:137:ARG:HG2	1.73	0.71
55:m9:167:ARG:HH11	55:m9:167:ARG:HB3	1.55	0.71
64:n8:77:LYS:O	64:n8:79:TRP:N	2.23	0.71
1:2:206:A:OP2	87:2:1981:OHX:N5	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.72	0.71
80:6:205:U:O4	87:6:1983:OHX:N6	2.24	0.71
34:sR:70:ASP:HB3	34:sR:113:VAL:HG12	1.73	0.71
36:5:1853:U:OP2	87:5:3558:OHX:N6	2.24	0.71
49:m3:48:PRO:HB2	71:o5:117:ALA:HB2	1.71	0.71
1:2:348:U:O4	87:2:2011:OHX:N5	2.24	0.70
13:C1:64:VAL:HG11	13:C1:131:ILE:HD11	1.71	0.70
20:C8:35:ILE:HB	20:C8:38:VAL:HG21	1.70	0.70
28:D6:10:ARG:HB2	28:D6:34:LYS:HG3	1.71	0.70
28:D6:78:ALA:O	28:D6:84:VAL:HG22	1.90	0.70
30:D8:36:THR:OG1	30:D8:37:SER:N	2.18	0.70
34:SR:207:ASP:OD1	34:SR:209:THR:OG1	2.07	0.70
36:1:1014:U:H2'	36:1:1015:U:H5''	1.72	0.70
41:L4:226:GLU:OE2	41:L4:246:ARG:NH2	2.25	0.70
51:M5:13:LYS:O	51:M5:16:SER:OG	2.04	0.70
57:N1:39:ILE:HD11	57:N1:102:ARG:HD3	1.72	0.70
62:N6:83:ASP:O	62:N6:84:LYS:HB2	1.91	0.70
80:6:877:G:H5'	80:6:937:C:H1'	1.73	0.70
80:6:1155:G:O2'	87:6:2057:OHX:N5	2.24	0.70
8:s6:116:LYS:NZ	8:s6:120:GLU:OE1	2.24	0.70
22:d0:58:LEU:HD13	22:d0:88:LYS:HD2	1.71	0.70
36:5:392:G:N7	87:5:3806:OHX:N4	2.38	0.70
36:5:533:A:OP2	87:5:3586:OHX:N4	2.24	0.70
36:5:1098:A:O5'	57:n1:129:LYS:HB2	1.90	0.70
36:5:2101:C:H2'	36:5:2102:U:C6	2.26	0.70
37:7:1:G:O2'	42:l5:270:LYS:HB3	1.91	0.70
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.72	0.70
40:L3:95:THR:OG1	40:L3:98:GLY:O	2.07	0.70
78:Q2:35:LEU:HD23	78:Q2:35:LEU:H	1.55	0.70
80:6:639:U:OP1	9:s7:118:LEU:N	2.24	0.70
11:s9:110:GLN:NE2	11:s9:126:ARG:HG2	1.99	0.70
17:c5:87:PRO:HA	17:c5:90:ILE:HG13	1.73	0.70
38:8:100:U:OP2	87:8:204:OHX:N2	2.23	0.70
10:S8:9:HIS:CD2	10:S8:10:LYS:HB2	2.25	0.70
36:1:531:G:O6	87:1:3681:OHX:N5	2.23	0.70
36:1:548:G:O6	87:1:3598:OHX:N2	2.24	0.70
51:M5:27:VAL:HB	51:M5:122:ASN:HD21	1.56	0.70
36:5:1485:G:OP2	87:5:3535:OHX:N2	2.24	0.70
36:5:2762:A:OP2	87:5:3491:OHX:N2	2.24	0.70
1:2:1041:G:OP1	87:2:2042:OHX:N5	2.23	0.70
1:2:1564:U:H2'	1:2:1565:C:C6	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2601:A:H2'	36:1:2602:G:H8	1.55	0.70
36:1:3122:A:N1	46:L9:70:THR:HG21	2.06	0.70
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.04	0.70
80:6:822:U:H2'	80:6:823:G:H5''	1.73	0.70
11:s9:117:GLY:O	11:s9:119:ALA:N	2.23	0.70
24:d2:37:PHE:CE2	24:d2:103:ILE:HD11	2.26	0.70
36:5:1493:G:O6	75:o9:2:ALA:N	2.25	0.70
36:5:1947:G:O6	87:5:3707:OHX:N3	2.23	0.70
36:5:3218:A:H5''	36:5:3219:G:C5	2.26	0.70
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.72	0.70
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.24	0.70
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.20	0.70
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.25	0.70
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.27	0.70
63:N7:33:SER:HB2	63:N7:40:HIS:CE1	2.25	0.70
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.23	0.70
5:s3:157:LEU:HD23	5:s3:189:MET:HB3	1.73	0.70
16:c4:20:TYR:HB3	16:c4:27:PHE:HB2	1.73	0.70
22:d0:69:LYS:HE3	22:d0:80:GLU:HG3	1.73	0.70
36:5:1696:A:OP2	87:5:3702:OHX:N6	2.25	0.70
36:5:1898:G:N2	36:5:2337:C:O2	2.19	0.70
36:5:2971:A:H3'	36:5:2971:A:OP2	1.91	0.70
36:5:3192:U:O4	87:5:3649:OHX:N2	2.24	0.70
53:m7:109:ALA:HA	53:m7:112:LEU:HD22	1.73	0.70
54:m8:158:HIS:H	54:m8:186:VAL:CG1	2.03	0.70
79:q3:73:THR:HB	79:q3:76:ALA:H	1.55	0.70
80:6:318:U:O4	87:6:2019:OHX:N4	2.25	0.70
80:6:1097:U:H4'	80:6:1098:U:H5'	1.71	0.70
36:5:1235:U:H4'	36:5:1236:G:H5'	1.73	0.70
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.26	0.70
36:5:900:G:H1'	36:5:1589:A:N6	2.07	0.70
36:5:1510:G:H2'	36:5:1512:U:C5	2.27	0.70
36:5:2703:A:OP2	42:l5:23:ARG:NH2	2.25	0.70
39:l2:144:ASN:O	39:l2:160:SER:N	2.21	0.70
43:l6:55:LEU:HD11	43:l6:66:SER:HB2	1.74	0.70
52:m6:110:PRO:O	52:m6:112:TYR:N	2.25	0.70
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.72	0.70
36:1:718:G:C2	36:1:721:G:H1'	2.27	0.70
39:L2:48:ILE:HD11	79:Q3:54:ILE:HG23	1.73	0.70
67:O1:9:THR:HG22	67:O1:109:VAL:HB	1.72	0.70
3:s1:129:THR:OG1	3:s1:131:ASP:O	2.08	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:273:A:H2'	36:5:274:G:C8	2.26	0.70
36:5:437:G:H22	36:5:622:A:N6	1.89	0.70
39:l2:177:LYS:NZ	79:q3:33:GLN:OE1	2.25	0.70
41:l4:288:ARG:O	41:l4:291:ASN:N	2.18	0.70
18:C6:50:GLU:OE2	18:C6:82:ARG:NH2	2.25	0.70
36:1:2120:A:OP2	87:1:3547:OHX:N2	2.25	0.70
36:1:2254:U:H2'	36:1:2261:G:H22	1.54	0.70
36:5:2389:C:H42	36:5:2990:G:H1	1.39	0.70
36:5:2510:U:O2'	36:5:2511:A:H5''	1.90	0.70
36:5:3005:A:OP2	87:5:3608:OHX:N2	2.25	0.70
46:l9:8:GLN:HG2	46:l9:68:LEU:HD13	1.74	0.70
56:n0:42:TRP:O	56:n0:46:GLN:HG3	1.92	0.70
76:q0:78:ILE:HD11	76:q0:83:LYS:HA	1.73	0.70
3:S1:99:ASN:OD1	3:S1:100:PHE:N	2.24	0.70
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.73	0.70
33:E1:126:CYS:O	33:E1:128:ALA:N	2.23	0.70
36:1:425:G:O6	87:1:3411:OHX:N6	2.24	0.70
36:1:1658:G:H2'	36:1:1659:U:C6	2.27	0.70
36:1:3341:U:O2'	36:1:3342:A:H5'	1.92	0.70
37:3:75:G:OP1	87:3:201:OHX:N6	2.24	0.70
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.57	0.70
80:6:475:A:OP2	11:s9:126:ARG:NH1	2.25	0.70
81:c0:54:TYR:HE2	81:c0:75:TYR:HB2	1.56	0.70
19:c7:34:LEU:HD22	19:c7:38:ILE:HD13	1.72	0.70
36:5:1657:C:O2'	36:5:1797:A:OP2	2.10	0.70
33:E1:144:CYS:HB3	33:E1:147:VAL:HB	1.74	0.69
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.27	0.69
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.25	0.69
36:5:431:U:OP1	69:o3:53:TYR:OH	2.04	0.69
36:5:1171:G:OP2	44:l7:218:ARG:NH1	2.25	0.69
40:l3:56:ILE:HG12	40:l3:323:MET:HE1	1.74	0.69
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.27	0.69
36:1:377:A:O2'	36:1:391:A:N1	2.23	0.69
36:1:2751:G:O6	87:1:3649:OHX:N6	2.25	0.69
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.74	0.69
69:O3:6:ARG:HG3	69:O3:8:TYR:CE1	2.27	0.69
11:s9:60:LEU:HD21	11:s9:93:LEU:HB3	1.74	0.69
18:c6:37:THR:O	18:c6:45:ARG:NH1	2.25	0.69
36:5:419:G:N7	87:8:201:OHX:N3	2.41	0.69
36:5:725:G:H3'	36:5:726:G:H5''	1.74	0.69
36:5:2511:A:H2'	36:5:2512:C:H5''	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:48:ARG:HG3	59:n3:48:ARG:HH11	1.57	0.69
36:1:547:G:O2'	36:1:548:G:C8	2.44	0.69
36:1:2310:U:OP1	87:1:3691:OHX:N2	2.24	0.69
36:1:2317:A:OP2	87:1:3610:OHX:N6	2.25	0.69
71:O5:21:LEU:HD21	71:O5:51:ILE:HG23	1.73	0.69
80:6:149:C:H2'	80:6:150:U:H6	1.56	0.69
80:6:1280:C:H2'	80:6:1281:G:C8	2.27	0.69
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.73	0.69
1:2:442:C:H2'	1:2:443:C:H6	1.58	0.69
1:2:880:C:OP2	87:2:2004:OHX:N1	2.25	0.69
1:2:1385:G:N7	87:2:2017:OHX:N3	2.41	0.69
1:2:1507:G:O6	87:2:2035:OHX:N5	2.26	0.69
36:1:1594:A:OP1	70:O4:36:LYS:NZ	2.20	0.69
36:1:1941:C:O2'	36:1:3344:A:N6	2.25	0.69
36:1:2812:C:H2'	36:1:2813:A:C8	2.27	0.69
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.73	0.69
53:m7:147:GLU:O	53:m7:147:GLU:HG3	1.92	0.69
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.73	0.69
1:2:108:A:H2'	1:2:109:G:C8	2.28	0.69
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.26	0.69
1:2:1784:C:H2'	1:2:1785:U:H6	1.56	0.69
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.26	0.69
36:1:317:A:OP2	72:O6:30:LYS:NZ	2.26	0.69
36:1:2802:A:N6	78:Q2:53:GLN:O	2.23	0.69
36:1:2892:A:H61	36:1:2909:U:H3	1.40	0.69
22:d0:24:ILE:HD13	22:d0:41:ILE:HD13	1.74	0.69
36:5:273:A:N7	87:5:3567:OHX:N3	2.40	0.69
36:5:1940:G:H21	36:5:3362:A:H8	1.39	0.69
40:l3:291:GLU:OE1	40:l3:302:LYS:NZ	2.17	0.69
45:l8:33:ASN:O	45:l8:35:GLY:N	2.26	0.69
52:m6:112:TYR:HA	52:m6:115:LYS:HB2	1.73	0.69
1:2:700:C:H42	1:2:738:G:H1	1.40	0.69
1:2:926:A:H2	16:C4:125:SER:HB3	1.58	0.69
36:1:412:G:H1'	53:M7:120:ASN:HD22	1.57	0.69
36:1:1390:A:H5'	36:1:1390:A:N3	2.08	0.69
36:1:1723:A:N1	36:1:1788:C:O2'	2.24	0.69
36:1:1815:U:O2'	36:1:1816:A:OP2	2.11	0.69
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.73	0.69
2:s0:88:LYS:NZ	19:c7:82:ASP:OD1	2.26	0.69
7:s5:90:ILE:O	7:s5:94:THR:HG23	1.92	0.69
36:5:2608:G:OP1	39:l2:2:GLY:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:11:C:OP2	87:8:215:OHX:N2	2.25	0.69
38:8:27:U:H4'	41:14:51:ALA:HB3	1.73	0.69
72:o6:62:ARG:NH1	72:o6:94:ILE:HD11	2.08	0.69
1:2:761:G:OP1	11:S9:54:ARG:NH1	2.25	0.69
3:S1:36:SER:HB3	3:S1:231:LEU:HD22	1.74	0.69
10:S8:120:THR:O	87:S8:301:OHX:N5	2.26	0.69
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.07	0.69
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.26	0.69
38:4:135:G:OP1	61:N5:49:LYS:NZ	2.22	0.69
80:6:1776:A:H2'	80:6:1777:G:H8	1.57	0.69
14:c2:81:ASP:O	14:c2:83:GLU:N	2.26	0.69
16:c4:92:LYS:HD2	16:c4:121:VAL:HG22	1.73	0.69
17:c5:123:TYR:OH	20:c8:126:ARG:NH1	2.25	0.69
36:5:2147:A:OP1	39:l2:200:ARG:HG3	1.93	0.69
36:5:3139:A:OP2	40:l3:30:LYS:NZ	2.26	0.69
37:7:3:U:H2'	37:7:4:U:H6	1.58	0.69
72:o6:63:ASN:O	72:o6:65:GLY:N	2.25	0.69
74:o8:18:ALA:O	74:o8:20:VAL:N	2.24	0.69
1:2:511:A:N6	1:2:539:G:O6	2.24	0.69
1:2:1774:G:N7	77:Q1:4:LYS:NZ	2.39	0.69
87:2:1914:OHX:N2	10:S8:17:LYS:O	2.25	0.69
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.74	0.69
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.23	0.69
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	1.72	0.69
15:C3:114:ARG:HH11	15:C3:114:ARG:HG2	1.58	0.69
36:1:2221:G:N2	36:1:2224:A:OP2	2.24	0.69
36:1:2376:G:H2'	36:1:2377:G:C8	2.28	0.69
36:1:3308:C:O2	53:M7:69:ARG:HD3	1.92	0.69
36:1:3375:A:O2'	36:1:3378:C:OP2	2.11	0.69
47:M0:218:ALA:HB3	87:M0:303:OHX:N4	2.08	0.69
53:M7:16:SER:HB3	53:M7:149:VAL:HB	1.72	0.69
80:6:55:A:H3'	80:6:403:G:H22	1.57	0.69
80:6:1561:U:H2'	80:6:1562:G:H8	1.57	0.69
13:c1:125:VAL:HG13	13:c1:137:PHE:HB3	1.74	0.69
36:5:790:U:H5'	41:l4:112:LYS:HD2	1.74	0.69
36:5:1605:A:O2'	36:5:1607:U:OP2	2.10	0.69
38:8:141:C:OP1	51:m5:109:ARG:NH1	2.26	0.69
42:l5:22:ARG:HA	42:l5:25:GLU:HG3	1.73	0.69
45:l8:24:ASN:O	45:l8:26:LEU:N	2.26	0.69
67:o1:13:THR:HG22	67:o1:72:ARG:HH21	1.56	0.69
1:2:25:C:O2	87:2:1963:OHX:N1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.73	0.69
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.08	0.69
13:C1:75:VAL:HA	13:C1:86:ILE:HG22	1.75	0.69
48:M1:10:ARG:HB2	48:M1:133:ARG:HD3	1.74	0.69
62:N6:23:PRO:HD2	62:N6:26:GLN:HB2	1.75	0.69
65:N9:23:LYS:HD2	65:N9:24:PRO:HD3	1.74	0.69
16:c4:128:LYS:HD2	28:d6:22:ARG:HB3	1.73	0.69
62:n6:45:ILE:HD11	62:n6:122:LYS:HB2	1.73	0.69
36:1:776:U:H5	36:1:2719:U:O2	1.76	0.69
36:1:1409:G:N7	87:1:3607:OHX:N3	2.41	0.69
48:M1:107:ASP:OD1	48:M1:107:ASP:N	2.24	0.69
55:M9:70:LYS:O	55:M9:73:GLY:N	2.24	0.69
24:d2:55:ASP:O	24:d2:57:ARG:N	2.24	0.69
36:5:1097:G:H4'	57:n1:129:LYS:HE3	1.73	0.69
36:5:1440:G:H2'	36:5:1441:G:H8	1.58	0.69
36:5:2179:C:O3'	39:l2:174:ARG:NH2	2.26	0.69
63:n7:110:ALA:O	63:n7:114:VAL:HG23	1.93	0.69
1:2:1550:A:P	17:C5:42:ARG:HH22	2.16	0.68
2:S0:10:THR:OG1	2:S0:13:ASP:OD2	2.11	0.68
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.28	0.68
36:1:883:A:H5'	53:M7:133:HIS:HA	1.76	0.68
36:1:2767:U:OP1	87:1:3684:OHX:N2	2.26	0.68
48:M1:37:LEU:O	48:M1:41:SER:OG	2.10	0.68
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.74	0.68
5:s3:53:THR:HG22	5:s3:91:VAL:HG11	1.75	0.68
36:5:810:A:H2'	36:5:811:U:C6	2.28	0.68
54:m8:23:ASN:HB3	54:m8:26:LEU:HB2	1.74	0.68
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.26	0.68
36:1:1727:G:OP1	79:Q3:44:LYS:NZ	2.24	0.68
36:1:2707:C:H2'	36:1:2708:C:H6	1.58	0.68
63:N7:3:LYS:HE3	66:O0:36:GLN:HA	1.74	0.68
8:s6:163:THR:HG22	8:s6:168:THR:HG22	1.75	0.68
26:d4:15:ASN:OD1	26:d4:18:LEU:N	2.26	0.68
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.75	0.68
68:o2:16:LYS:HD3	68:o2:18:LYS:HE2	1.75	0.68
4:S2:133:LYS:O	4:S2:136:VAL:HG13	1.92	0.68
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	1.75	0.68
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.75	0.68
36:1:735:A:H2'	36:1:736:A:C8	2.29	0.68
38:4:107:G:OP2	87:4:213:OHX:N2	2.27	0.68
17:c5:65:LEU:O	87:c5:201:OHX:N2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:156:LEU:C	41:l4:158:SER:H	2.01	0.68
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.26	0.68
1:2:1381:U:OP1	87:2:2071:OHX:N3	2.26	0.68
5:S3:65:ARG:HA	5:S3:68:GLU:HG3	1.75	0.68
17:C5:69:GLU:OE1	87:C5:201:OHX:N6	2.26	0.68
40:L3:171:LEU:O	87:L3:402:OHX:N6	2.26	0.68
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.58	0.68
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.25	0.68
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	1.73	0.68
80:6:1595:U:N3	80:6:1600:A:H2	1.92	0.68
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.58	0.68
19:c7:104:ASN:H	19:c7:106:THR:HG22	1.58	0.68
34:sR:128:ASP:OD1	34:sR:130:THR:OG1	2.10	0.68
36:5:766:U:H4'	36:5:767:U:O5'	1.94	0.68
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.28	0.68
62:n6:36:SER:HB2	62:n6:37:LYS:HE2	1.74	0.68
36:1:1496:C:C2	36:1:1521:G:N2	2.62	0.68
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.29	0.68
36:1:2953:U:H1'	86:A:3403:8AN:N3	2.08	0.68
41:L4:295:ILE:O	41:L4:299:ILE:HG12	1.93	0.68
42:L5:119:TYR:OH	42:L5:135:VAL:N	2.22	0.68
80:6:824:G:N7	87:6:2098:OHX:N5	2.41	0.68
24:d2:16:ASN:O	24:d2:20:THR:HG23	1.93	0.68
1:2:142:G:H22	1:2:173:A:H2	1.39	0.68
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.23	0.68
21:C9:85:SER:C	21:C9:87:GLY:H	2.02	0.68
36:1:115:A:OP1	51:M5:49:ARG:NE	2.26	0.68
36:1:796:U:H2'	36:1:797:U:C6	2.28	0.68
36:1:815:G:OP2	73:O7:31:LYS:NZ	2.26	0.68
36:1:3335:A:H2'	36:1:3336:A:C8	2.27	0.68
37:3:97:A:OP1	56:N0:40:ARG:NH1	2.26	0.68
45:L8:101:THR:HG23	45:L8:104:GLU:H	1.59	0.68
2:s0:71:GLU:O	2:s0:96:THR:HG22	1.93	0.68
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.27	0.68
36:5:990:U:O4	87:5:3701:OHX:N6	2.26	0.68
36:5:2960:C:OP1	87:5:3473:OHX:N5	2.26	0.68
41:l4:295:ILE:HD12	54:m8:132:PRO:HG3	1.74	0.68
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.75	0.68
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.09	0.68
1:2:458:G:OP2	26:D4:105:ARG:NH2	2.26	0.68
3:S1:110:LEU:HD21	3:S1:213:ARG:HD2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1864:A:OP1	55:M9:88:ARG:NH1	2.26	0.68
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.22	0.68
80:6:248:U:H4'	13:c1:36:LYS:HD2	1.76	0.68
80:6:333:A:OP1	10:s8:31:ARG:NH2	2.26	0.68
80:6:1558:U:H3	17:c5:122:THR:CG2	2.07	0.68
22:d0:69:LYS:HG2	31:d9:44:ARG:HH12	1.59	0.68
22:d0:95:ALA:HB1	22:d0:99:ILE:HG13	1.76	0.68
36:5:595:G:H1	36:5:609:G:H5''	1.58	0.68
41:l4:16:THR:HG23	41:l4:18:ASN:H	1.58	0.68
1:2:1784:C:H2'	1:2:1785:U:C6	2.29	0.68
6:S4:176:ASP:HB2	6:S4:179:LYS:NZ	2.09	0.68
36:1:770:G:O6	87:1:3771:OHX:N3	2.27	0.68
36:1:2233:A:OP2	87:1:3583:OHX:N5	2.27	0.68
36:1:2572:C:O2'	36:1:2573:G:O4'	2.11	0.68
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.42	0.68
40:L3:4:ARG:HD2	40:L3:7:GLU:HG3	1.75	0.68
81:c0:1:MET:HE2	81:c0:41:TYR:HE1	1.59	0.68
20:c8:12:GLN:NE2	20:c8:13:HIS:O	2.26	0.68
34:sR:42:LEU:HD21	34:sR:82:SER:HB3	1.74	0.68
36:5:1161:G:N2	36:5:1338:C:O2	2.18	0.68
46:l9:36:LYS:NZ	46:l9:152:GLU:OE1	2.27	0.68
47:m0:47:PRO:HB3	47:m0:171:TRP:CE2	2.29	0.68
69:o3:106:ASN:O	69:o3:106:ASN:ND2	2.27	0.68
80:6:79:C:H1'	8:s6:174:LYS:HG3	1.75	0.68
80:6:1646:C:H2'	80:6:1647:U:H6	1.59	0.68
36:5:132:C:H2'	36:5:133:U:H5''	1.75	0.68
36:5:173:G:HO2'	36:5:174:C:H6	1.40	0.68
36:5:1329:U:H4'	36:5:1330:A:OP1	1.93	0.68
48:m1:151:SER:O	48:m1:152:HIS:HB2	1.94	0.68
1:2:579:A:H2	5:S3:143:ARG:HG3	1.59	0.68
1:2:738:G:O6	87:2:1977:OHX:N1	2.27	0.68
1:2:1148:C:H2'	1:2:1149:G:H8	1.59	0.68
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.23	0.68
27:D5:43:ASP:O	27:D5:46:LYS:N	2.26	0.68
36:1:189:G:OP2	62:N6:46:LYS:NZ	2.27	0.68
50:M4:113:THR:HB	50:M4:116:GLU:HB2	1.74	0.68
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.76	0.68
58:n2:50:LEU:HB3	58:n2:54:VAL:HG23	1.75	0.68
1:2:1334:U:H2'	1:2:1335:U:H6	1.58	0.67
36:1:2228:A:H2'	36:1:2229:A:C8	2.29	0.67
33:e1:119:ARG:O	33:e1:132:LEU:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:1:G:N3	42:15:269:SER:OG	2.26	0.67
1:2:1482:C:OP2	1:2:1521:G:N2	2.23	0.67
36:1:2923:U:H3	86:A:3401:C:H5	1.41	0.67
76:Q0:99:CYS:SG	89:Q0:201:ZN:ZN	1.83	0.67
80:6:1000:C:N4	80:6:1003:A:OP2	2.25	0.67
80:6:1795:U:H5'	28:d6:79:ILE:HD11	1.77	0.67
4:s2:161:LYS:HG3	4:s2:166:THR:HG22	1.75	0.67
7:s5:35:GLN:O	7:s5:37:GLN:N	2.27	0.67
26:d4:19:ALA:HB1	26:d4:81:GLU:OE2	1.95	0.67
41:l4:304:GLN:O	41:l4:306:THR:N	2.26	0.67
42:15:110:LEU:HA	42:15:113:LEU:HB2	1.76	0.67
1:2:66:U:C5	8:S6:173:PRO:HG3	2.29	0.67
1:2:918:U:H2'	1:2:919:A:C8	2.29	0.67
13:C1:80:MET:HB2	13:C1:83:THR:HG23	1.75	0.67
36:1:2108:C:H1'	36:1:3344:A:C8	2.28	0.67
87:1:3406:OHX:N4	73:O7:46:SER:OG	2.27	0.67
31:d9:21:CYS:HB2	31:d9:39:CYS:H	1.59	0.67
36:5:1366:A:C2	36:5:1367:G:C4	2.82	0.67
28:D6:38:ARG:NH2	28:D6:83:ILE:HG13	2.09	0.67
36:1:626:U:O4	87:1:3537:OHX:N5	2.27	0.67
36:1:1103:A:N6	36:1:1363:A:H1'	2.08	0.67
36:1:1393:A:N3	36:1:1419:A:O2'	2.27	0.67
36:1:1919:G:N7	87:1:3552:OHX:N5	2.43	0.67
36:1:2948:C:O2'	40:L3:242:THR:HG22	1.95	0.67
36:1:3155:U:H3'	36:1:3156:U:H4'	1.75	0.67
41:L4:140:HIS:H	41:L4:180:LYS:HE2	1.59	0.67
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.76	0.67
80:6:1035:G:OP1	15:c3:2:GLY:N	2.28	0.67
80:6:1330:G:H21	19:c7:8:THR:HG21	1.60	0.67
36:5:701:G:H2'	36:5:702:C:C6	2.29	0.67
36:5:1310:G:O6	87:5:3528:OHX:N4	2.27	0.67
36:5:1853:U:H5'	73:o7:10:LYS:HZ2	1.59	0.67
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.27	0.67
36:5:2970:C:H4'	36:5:2971:A:N1	2.09	0.67
36:5:2985:C:H2'	36:5:2986:U:C6	2.30	0.67
43:l6:3:ALA:HB1	68:o2:75:LEU:HD13	1.76	0.67
49:m3:6:ASN:O	54:m8:164:ARG:NH1	2.27	0.67
9:S7:144:VAL:HG13	24:D2:49:GLU:HB3	1.75	0.67
20:C8:94:ASP:OD1	20:C8:98:TYR:OH	2.12	0.67
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.77	0.67
36:1:2340:U:OP1	40:L3:236:LYS:HE3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:24:GLU:O	44:L7:26:VAL:N	2.28	0.67
44:L7:108:LEU:HD21	44:L7:115:THR:HG23	1.77	0.67
45:L8:75:ILE:O	45:L8:77:GLN:N	2.26	0.67
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	1.76	0.67
80:6:753:A:N7	6:s4:187:ARG:NH1	2.36	0.67
80:6:1726:G:N7	87:6:2002:OHX:N5	2.43	0.67
6:s4:86:PHE:HE2	6:s4:102:VAL:HG23	1.60	0.67
36:5:3287:U:H2'	36:5:3288:G:H5'	1.75	0.67
42:l5:208:MET:HE1	42:l5:226:TYR:CD1	2.30	0.67
45:l8:151:VAL:HG13	45:l8:199:ALA:HB2	1.76	0.67
47:m0:12:GLN:NE2	47:m0:128:ARG:HB3	2.08	0.67
65:n9:58:LYS:HA	65:n9:58:LYS:NZ	2.10	0.67
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.60	0.67
3:S1:51:SER:HB3	3:S1:56:SER:HB2	1.76	0.67
36:1:1733:G:OP2	87:1:3805:OHX:N4	2.28	0.67
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.22	0.67
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	1.76	0.67
80:6:1584:G:N2	80:6:1611:A:OP2	2.17	0.67
5:s3:222:VAL:HG11	34:sR:229:LYS:HA	1.76	0.67
10:s8:44:HIS:O	10:s8:56:ARG:N	2.27	0.67
36:5:2991:A:OP1	40:l3:21:ARG:HG3	1.93	0.67
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.27	0.67
56:n0:71:LYS:HG2	56:n0:73:LYS:HD3	1.76	0.67
61:n5:92:LYS:HE2	61:n5:112:THR:HG23	1.77	0.67
66:o0:40:LYS:HB3	66:o0:101:LEU:HD11	1.77	0.67
1:2:145:A:O2'	1:2:146:U:O5'	2.11	0.67
1:2:271:A:H61	8:S6:185:GLN:HE22	1.42	0.67
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.75	0.67
36:1:2947:G:OP2	36:1:2947:G:H4'	1.93	0.67
36:1:3155:U:H3'	36:1:3156:U:C4'	2.23	0.67
43:L6:7:PRO:HG2	43:L6:10:TYR:CZ	2.30	0.67
80:6:565:C:N3	87:6:2054:OHX:N1	2.43	0.67
80:6:1479:A:OP1	21:c9:57:ARG:NH1	2.27	0.67
2:s0:142:PRO:HB3	23:d1:34:ILE:HD13	1.75	0.67
36:5:3194:C:N3	36:5:3197:G:N1	2.42	0.67
41:l4:98:ARG:HG2	41:l4:99:MET:H	1.59	0.67
44:l7:80:GLN:HG3	57:n1:136:ARG:HB2	1.76	0.67
1:2:418:G:O2'	8:S6:59:GLN:NE2	2.27	0.67
1:2:959:U:C6	15:C3:61:THR:HB	2.30	0.67
10:S8:66:SER:HA	10:S8:73:SER:HA	1.77	0.67
21:C9:73:VAL:HG21	21:C9:102:ARG:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.75	0.67
36:1:314:U:H2'	36:1:315:C:C6	2.29	0.67
36:1:542:G:H2'	36:1:543:C:C6	2.30	0.67
36:1:1564:U:H2'	36:1:1565:G:H8	1.59	0.67
36:1:2579:G:O6	87:1:3463:OHX:N2	2.26	0.67
38:4:79:A:H2'	38:4:80:A:C1'	2.24	0.67
47:M0:193:ASP:OD1	47:M0:198:LYS:HE3	1.95	0.67
49:M3:28:GLN:OE1	51:M5:201:ARG:NH1	2.27	0.67
80:6:1600:A:H4'	80:6:1601:G:OP1	1.93	0.67
36:5:718:G:OP1	64:n8:117:ARG:NH2	2.28	0.67
36:5:1169:A:OP1	87:5:3504:OHX:N6	2.27	0.67
40:l3:166:ILE:O	40:l3:169:THR:HG22	1.95	0.67
1:2:591:A:H5''	11:S9:24:LEU:HD22	1.77	0.67
1:2:693:U:H5'	1:2:694:U:H5'	1.75	0.67
1:2:1280:C:H2'	1:2:1281:G:C8	2.30	0.67
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.76	0.67
14:C2:54:ARG:O	14:C2:56:GLU:N	2.24	0.67
87:1:3685:OHX:N5	86:A:3401:C:O2	2.27	0.67
56:N0:89:ASN:HD21	57:N1:156:TYR:H	1.43	0.67
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.76	0.67
36:5:1364:C:OP1	44:l7:110:ARG:NH2	2.22	0.67
36:5:1412:G:OP1	68:o2:105:ARG:NH2	2.26	0.67
36:5:2770:G:N7	87:5:3667:OHX:N5	2.43	0.67
36:5:2988:C:P	52:m6:68:ARG:HH12	2.18	0.67
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.27	0.67
58:n2:92:TRP:O	58:n2:108:TYR:N	2.25	0.67
36:1:1939:G:OP1	55:M9:77:GLY:HA3	1.95	0.67
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.30	0.67
48:M1:109:HIS:CE1	48:M1:122:ILE:HA	2.30	0.67
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.60	0.67
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.60	0.67
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	1.95	0.67
72:O6:58:ILE:HG22	72:O6:90:MET:HB3	1.76	0.67
80:6:523:G:OP2	26:d4:37:LYS:NZ	2.27	0.67
80:6:653:C:N3	80:6:677:G:N2	2.40	0.67
80:6:1680:G:O6	87:6:2069:OHX:N1	2.27	0.67
17:c5:86:VAL:HG22	17:c5:89:MET:HE3	1.77	0.67
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	1.76	0.67
32:e0:55:ARG:HH11	32:e0:55:ARG:HB3	1.59	0.67
49:m3:2:ALA:N	64:n8:33:GLY:O	2.28	0.67
49:m3:89:TYR:O	49:m3:92:THR:OG1	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:224:C:H42	1:2:837:G:H1	1.43	0.66
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.78	0.66
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	1.76	0.66
36:1:701:G:H2'	36:1:702:C:C6	2.30	0.66
36:1:796:U:H2'	36:1:797:U:H6	1.61	0.66
42:L5:60:ILE:HB	42:L5:80:SER:HB3	1.77	0.66
43:L6:137:ASP:O	43:L6:141:VAL:HG23	1.95	0.66
51:M5:185:ALA:HB3	51:M5:190:THR:HG22	1.77	0.66
80:6:207:U:H3	80:6:258:C:H42	1.44	0.66
80:6:991:G:OP2	87:6:2032:OHX:N2	2.28	0.66
80:6:1514:U:H5''	80:6:1515:A:N3	2.09	0.66
2:s0:116:LYS:HB2	2:s0:118:PRO:HD3	1.76	0.66
11:s9:36:LEU:HD11	11:s9:105:LEU:HD21	1.77	0.66
36:5:3097:C:OP1	40:l3:349:LYS:NZ	2.28	0.66
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.25	0.66
63:n7:46:ILE:HG12	63:n7:49:TYR:CE1	2.30	0.66
13:C1:99:ARG:HB3	25:D3:9:LEU:O	1.95	0.66
27:D5:96:SER:O	27:D5:98:GLN:N	2.26	0.66
35:SM:79:SER:O	35:SM:82:THR:OG1	2.13	0.66
36:1:2108:C:H1'	36:1:3344:A:H8	1.60	0.66
36:1:3147:G:O2'	40:L3:104:THR:OG1	2.13	0.66
36:1:3306:U:H2'	36:1:3307:A:H5''	1.77	0.66
38:4:122:U:H2'	38:4:123:G:C8	2.28	0.66
41:L4:311:HIS:HE1	41:L4:314:LYS:HB2	1.58	0.66
68:O2:71:HIS:HB3	68:O2:93:ALA:H	1.60	0.66
72:O6:97:SER:O	72:O6:99:ARG:N	2.27	0.66
80:6:804:A:N3	24:d2:105:THR:HG22	2.10	0.66
2:s0:184:LEU:O	2:s0:186:GLY:N	2.29	0.66
33:e1:108:VAL:HG22	33:e1:114:VAL:HG22	1.77	0.66
36:5:110:G:OP2	49:m3:73:ARG:NH1	2.28	0.66
41:l4:351:PRO:HA	44:l7:71:ALA:HA	1.77	0.66
41:l4:361:HIS:CG	41:l4:362:ASP:H	2.13	0.66
46:l9:162:GLN:HB2	46:l9:179:ILE:O	1.95	0.66
46:l9:166:ARG:HH21	46:l9:168:ARG:NH1	1.94	0.66
62:n6:106:ILE:HG21	62:n6:109:LEU:HD23	1.77	0.66
1:2:151:G:O6	26:D4:124:ARG:NH2	2.24	0.66
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.61	0.66
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	1.77	0.66
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.31	0.66
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.77	0.66
73:O7:60:GLY:O	87:O7:103:OHX:N6	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c0:50:THR:HG22	81:c0:55:VAL:HG22	1.77	0.66
13:c1:75:VAL:HG12	13:c1:119:VAL:HA	1.75	0.66
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.27	0.66
58:n2:98:THR:HG23	58:n2:104:ARG:HH21	1.60	0.66
84:p0:81:LYS:HD3	84:p0:82:GLY:H	1.59	0.66
15:C3:62:GLN:HB2	15:C3:65:VAL:HG23	1.78	0.66
36:1:562:C:H2'	36:1:563:U:H6	1.57	0.66
67:O1:53:PRO:O	67:O1:57:GLN:HG3	1.95	0.66
68:O2:101:SER:O	68:O2:105:ARG:HG3	1.95	0.66
10:s8:61:GLU:HG2	10:s8:62:THR:HG23	1.77	0.66
13:c1:8:GLN:NE2	13:c1:14:GLN:O	2.25	0.66
36:5:1538:G:O6	87:5:3757:OHX:N4	2.28	0.66
37:7:47:C:H2'	37:7:48:U:H6	1.60	0.66
16:C4:57:PRO:HB3	16:C4:100:ALA:HB2	1.76	0.66
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.77	0.66
36:1:528:U:H2'	36:1:529:A:H8	1.59	0.66
36:1:2986:U:H2'	36:1:2987:A:C8	2.31	0.66
40:L3:220:VAL:O	40:L3:334:ARG:NH1	2.25	0.66
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.08	0.66
70:O4:31:ARG:HH11	70:O4:31:ARG:HG2	1.61	0.66
80:6:901:G:H22	16:c4:54:GLU:CD	2.03	0.66
9:s7:7:LYS:NZ	55:m9:188:ASP:OD2	2.26	0.66
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	1.77	0.66
36:5:80:G:H2'	36:5:81:C:H6	1.59	0.66
36:5:1661:G:H2'	36:5:1662:G:C8	2.30	0.66
42:l5:5:LYS:HA	42:l5:5:LYS:HZ2	1.61	0.66
1:2:632:U:OP1	13:C1:102:LYS:HG3	1.95	0.66
1:2:915:A:OP1	87:2:1974:OHX:N3	2.29	0.66
36:1:1389:G:OP2	87:1:3509:OHX:N4	2.29	0.66
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.96	0.66
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.28	0.66
46:L9:50:ASN:HD21	50:M4:4:ASP:HB3	1.60	0.66
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.78	0.66
10:s8:76:THR:HG22	10:s8:105:ASP:HB3	1.76	0.66
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.59	0.66
36:5:2180:G:H2'	36:5:2181:C:C6	2.31	0.66
48:m1:92:ARG:HH12	48:m1:94:ARG:HH11	1.42	0.66
83:m2:126:UNK:O	83:m2:130:UNK:N	2.29	0.66
59:n3:39:VAL:O	59:n3:42:SER:OG	2.12	0.66
75:o9:10:LYS:HA	75:o9:13:MET:HE3	1.76	0.66
1:2:1087:A:H2'	1:2:1088:A:C8	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:55:GLU:HG2	23:D1:79:LEU:HD23	1.78	0.66
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	1.77	0.66
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.29	0.66
44:L7:33:ARG:O	44:L7:36:ALA:N	2.28	0.66
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.29	0.66
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	1.78	0.66
80:6:17:C:H2'	80:6:18:C:C6	2.31	0.66
80:6:1115:U:H5''	77:q1:14:LYS:HD2	1.77	0.66
36:5:2155:G:OP1	39:l2:241:ARG:HG2	1.95	0.66
46:l9:86:TYR:CG	46:l9:151:VAL:HG13	2.30	0.66
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.77	0.66
22:D0:48:HIS:ND1	22:D0:48:HIS:O	2.28	0.66
34:SR:20:VAL:O	34:SR:291:SER:OG	2.13	0.66
36:1:1740:U:H1'	36:1:1741:A:H2	1.60	0.66
46:L9:20:ILE:HG13	50:M4:7:VAL:HG13	1.78	0.66
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.77	0.66
80:6:660:G:H2'	80:6:661:A:H4'	1.78	0.66
80:6:759:U:OP2	87:6:2090:OHX:N3	2.29	0.66
80:6:1305:U:H4'	80:6:1306:C:OP2	1.96	0.66
2:s0:140:ASN:ND2	4:s2:62:PRO:HD3	2.11	0.66
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.60	0.66
36:5:430:U:OP2	87:5:3485:OHX:N5	2.28	0.66
36:5:810:A:H2'	36:5:811:U:H6	1.60	0.66
36:5:2985:C:H2'	36:5:2986:U:H6	1.61	0.66
41:l4:26:PHE:CD1	41:l4:130:ALA:HB2	2.28	0.66
62:n6:81:GLN:NE2	62:n6:98:ASN:OD1	2.28	0.66
63:n7:88:ASP:O	63:n7:121:ARG:NH2	2.29	0.66
1:2:656:G:O2'	1:2:657:U:O4'	2.14	0.66
34:SR:93:ASP:HB2	34:SR:100:TYR:HE1	1.59	0.66
36:1:132:C:H2'	36:1:133:U:H5''	1.78	0.66
36:1:953:G:OP2	65:N9:11:ASN:ND2	2.28	0.66
36:1:2860:U:H5'	36:1:2860:U:H6	1.59	0.66
80:6:1392:U:H2'	80:6:1393:C:C6	2.31	0.66
80:6:1653:C:O3'	77:q1:21:ARG:HD2	1.95	0.66
21:c9:16:ASN:HA	21:c9:56:LYS:NZ	2.11	0.66
26:d4:62:THR:HA	26:d4:69:SER:HA	1.77	0.66
36:5:1596:C:H2'	36:5:1597:C:C6	2.30	0.66
36:5:1831:U:H2'	36:5:1832:C:C6	2.31	0.66
38:8:155:A:H2'	38:8:156:U:O4'	1.96	0.66
41:l4:60:THR:HG22	41:l4:62:ALA:H	1.60	0.66
41:l4:347:THR:HB	41:l4:349:THR:HG23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:12:ARG:HD2	57:n1:13:TYR:CE2	2.30	0.66
84:p0:51:VAL:HB	84:p0:87:VAL:HG22	1.77	0.66
1:2:637:C:O2	9:S7:114:ARG:NH2	2.28	0.66
1:2:732:G:O6	87:2:2013:OHX:N5	2.29	0.66
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	1.78	0.66
11:S9:34:PHE:CE1	11:S9:105:LEU:HB3	2.30	0.66
18:C6:73:GLY:H	18:C6:76:SER:HB3	1.61	0.66
26:D4:94:TYR:HD2	26:D4:96:LEU:HD11	1.61	0.66
36:1:239:G:O2'	36:1:240:U:OP1	2.14	0.66
36:1:1789:G:O6	87:1:3726:OHX:N4	2.28	0.66
36:1:2953:U:O4	87:1:3764:OHX:N6	2.29	0.66
46:L9:89:LYS:HG2	46:L9:145:VAL:HG22	1.77	0.66
74:O8:46:ARG:HH21	74:O8:51:LEU:HB2	1.61	0.66
80:6:936:G:N7	28:d6:15:ARG:NH1	2.43	0.66
80:6:1230:A:H8	80:6:1258:U:C4	2.14	0.66
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.29	0.66
40:l3:76:VAL:HG21	40:l3:323:MET:HE3	1.78	0.66
42:l5:68:THR:HG22	42:l5:70:THR:H	1.60	0.66
46:l9:88:TYR:CZ	46:l9:184:LYS:HD3	2.30	0.66
46:l9:166:ARG:NH2	46:l9:168:ARG:HH12	1.94	0.66
54:m8:178:ARG:HD3	64:n8:50:PRO:HB2	1.77	0.66
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.78	0.65
36:1:1866:C:OP1	87:1:3643:OHX:N6	2.29	0.65
36:1:1887:A:OP1	87:1:3627:OHX:N3	2.29	0.65
36:1:2116:G:C2	36:1:3064:U:H5'	2.29	0.65
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	1.77	0.65
52:M6:171:LYS:O	52:M6:175:THR:HG23	1.96	0.65
63:N7:16:GLY:O	63:N7:18:TYR:N	2.29	0.65
80:6:700:C:O2	80:6:738:G:N2	2.29	0.65
80:6:1087:A:H2'	80:6:1088:A:H8	1.54	0.65
80:6:1427:A:O2'	80:6:1428:G:OP1	2.12	0.65
80:6:1795:U:OP2	28:d6:5:ARG:NH2	2.28	0.65
6:s4:54:TYR:CD1	26:d4:17:LEU:HD12	2.31	0.65
11:s9:129:ILE:HA	11:s9:134:ILE:HG12	1.78	0.65
36:5:2661:G:H2'	36:5:2662:G:H8	1.61	0.65
36:5:2836:C:H5	36:5:2852:C:H42	1.43	0.65
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.29	0.65
42:l5:41:LYS:HB2	57:n1:68:THR:O	1.96	0.65
42:l5:111:GLN:HA	42:l5:116:ASP:HB3	1.78	0.65
58:n2:89:LEU:HB3	58:n2:93:ILE:HD12	1.77	0.65
68:o2:4:LEU:HD13	68:o2:90:LYS:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:739:G:O6	87:2:1977:OHX:N4	2.29	0.65
7:S5:42:LEU:HB2	7:S5:46:TRP:O	1.96	0.65
11:S9:108:ARG:HG2	11:S9:147:MET:HE2	1.77	0.65
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.77	0.65
36:1:3361:G:O6	87:1:3717:OHX:N6	2.30	0.65
87:1:3453:OHX:N5	51:M5:204:LYS:O	2.29	0.65
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.31	0.65
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.28	0.65
64:N8:88:ASP:O	64:N8:92:LYS:HG3	1.95	0.65
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.78	0.65
80:6:654:C:H2'	80:6:655:G:C8	2.30	0.65
80:6:1370:U:H4'	80:6:1371:A:H4'	1.78	0.65
6:s4:251:GLU:O	6:s4:255:ARG:HG2	1.95	0.65
17:c5:85:ILE:HG22	17:c5:112:LEU:HD23	1.77	0.65
23:d1:85:TYR:CD1	29:d7:6:ASP:HB2	2.30	0.65
36:5:956:U:H2'	36:5:957:C:C6	2.31	0.65
36:5:2509:U:H2'	36:5:2510:U:H5''	1.77	0.65
36:5:2696:A:H2'	36:5:2697:A:C8	2.32	0.65
46:l9:111:PHE:HD1	46:l9:127:PRO:HA	1.60	0.65
1:2:136:C:H4'	1:2:137:U:OP1	1.94	0.65
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.60	0.65
8:S6:25:ARG:HG3	8:S6:28:PHE:CD1	2.32	0.65
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.78	0.65
62:N6:37:LYS:HD3	62:N6:37:LYS:H	1.60	0.65
20:c8:46:VAL:HG11	20:c8:73:MET:HE3	1.78	0.65
24:d2:11:LEU:HD22	24:d2:72:CYS:HB2	1.77	0.65
36:5:844:G:OP2	87:5:3725:OHX:N4	2.30	0.65
36:5:1176:C:H2'	36:5:1177:G:N2	2.11	0.65
36:5:1308:A:OP2	36:5:1308:A:C8	2.49	0.65
36:5:2433:U:H1'	51:m5:125:SER:HB3	1.79	0.65
36:5:2763:U:H5'	54:m8:176:ARG:HG3	1.77	0.65
37:7:46:A:OP1	42:l5:158:ARG:HD3	1.97	0.65
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.21	0.65
42:l5:33:ARG:NH2	42:l5:72:ASP:OD1	2.26	0.65
47:m0:81:GLY:C	47:m0:83:ASP:H	2.05	0.65
69:o3:16:TYR:CD2	69:o3:25:PRO:HA	2.31	0.65
1:2:16:G:H2'	1:2:17:C:C6	2.32	0.65
1:2:109:G:O2'	1:2:796:A:N1	2.27	0.65
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.14	0.65
19:C7:37:GLU:HG3	34:SR:150:TRP:HE1	1.61	0.65
21:C9:86:ARG:HH11	21:C9:86:ARG:HG3	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1652:G:O2'	70:O4:45:GLY:HA3	1.96	0.65
37:3:11:A:N1	37:3:67:G:O2'	2.28	0.65
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.31	0.65
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.32	0.65
46:L9:189:GLU:O	46:L9:191:LEU:N	2.30	0.65
63:N7:88:ASP:HB3	63:N7:121:ARG:NH2	2.11	0.65
80:6:149:C:H2'	80:6:150:U:C6	2.31	0.65
80:6:500:C:O2'	80:6:501:U:O4'	2.15	0.65
9:s7:49:ILE:HG22	9:s7:175:LYS:HD2	1.78	0.65
22:d0:21:LYS:HA	22:d0:94:GLU:HG2	1.77	0.65
36:5:96:G:OP1	49:m3:15:ARG:NH2	2.30	0.65
36:5:1012:G:O6	87:5:3732:OHX:N3	2.29	0.65
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.29	0.65
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.29	0.65
41:l4:170:LYS:HE3	41:l4:175:HIS:ND1	2.11	0.65
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.30	0.65
46:l9:166:ARG:HD2	46:l9:168:ARG:HH11	1.61	0.65
46:l9:166:ARG:HH21	46:l9:168:ARG:HH12	1.45	0.65
58:n2:80:THR:HG21	58:n2:95:PHE:HD2	1.62	0.65
71:o5:67:ARG:HG2	71:o5:80:LEU:HD13	1.77	0.65
1:2:856:A:H62	9:S7:97:ARG:H	1.43	0.65
1:2:1171:A:O2'	1:2:1570:A:O2'	2.03	0.65
36:1:1765:U:H5''	55:M9:43:LYS:HE2	1.79	0.65
36:1:2426:U:H2'	36:1:2427:U:C6	2.30	0.65
37:3:4:U:H2'	37:3:5:G:C8	2.31	0.65
42:L5:39:GLN:HE21	42:L5:46:THR:HG22	1.60	0.65
45:L8:152:LEU:HB3	45:L8:180:VAL:HG21	1.79	0.65
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.79	0.65
47:M0:23:ASN:HD21	47:M0:96:VAL:HG21	1.62	0.65
67:O1:23:VAL:O	67:O1:28:ARG:NH1	2.29	0.65
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.79	0.65
74:O8:9:LYS:NZ	74:O8:13:GLU:OE2	2.27	0.65
80:6:448:C:OP2	6:s4:49:ARG:NH1	2.20	0.65
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.30	0.65
36:5:2661:G:H2'	36:5:2662:G:C8	2.32	0.65
36:5:2921:U:H2'	36:5:2923:U:OP2	1.96	0.65
47:m0:4:ARG:HD3	47:m0:8:CYS:SG	2.37	0.65
49:m3:68:LYS:HZ2	49:m3:149:GLN:HG2	1.61	0.65
53:m7:67:ILE:HB	53:m7:80:LYS:HG2	1.78	0.65
54:m8:71:LEU:HD13	54:m8:99:THR:HG21	1.77	0.65
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:6:VAL:HG13	21:C9:66:TYR:CE1	2.31	0.65
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.30	0.65
30:D8:52:ASP:OD1	30:D8:52:ASP:N	2.25	0.65
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.30	0.65
36:1:2373:A:O2'	36:1:2823:G:N2	2.29	0.65
70:O4:71:THR:HG22	70:O4:77:GLY:HA3	1.78	0.65
80:6:1521:G:O6	21:c9:68:ARG:NH1	2.30	0.65
8:s6:67:VAL:HG23	8:s6:68:LEU:O	1.95	0.65
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.78	0.65
36:5:2707:C:H2'	36:5:2708:C:C6	2.32	0.65
36:5:2722:U:OP1	65:n9:33:LYS:NZ	2.29	0.65
36:5:2894:C:OP1	46:l9:168:ARG:NH2	2.27	0.65
41:l4:122:THR:HG22	41:l4:235:LEU:HB2	1.77	0.65
44:l7:88:ARG:HD2	44:l7:90:LYS:O	1.96	0.65
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.78	0.65
54:m8:86:THR:HB	54:m8:105:ARG:HB2	1.78	0.65
62:n6:11:ASP:HB3	62:n6:14:LYS:HG3	1.79	0.65
33:E1:144:CYS:O	33:E1:146:SER:N	2.30	0.65
36:1:1937:U:O4	87:1:3787:OHX:N5	2.30	0.65
36:1:2683:U:H2'	36:1:2684:C:C6	2.31	0.65
36:1:2871:G:H5'	36:1:2872:A:H5'	1.79	0.65
42:L5:40:HIS:CD2	42:L5:42:ALA:HB3	2.32	0.65
57:N1:138:SER:C	57:N1:139:ARG:HG2	2.21	0.65
68:O2:11:LYS:O	68:O2:12:LYS:HB2	1.96	0.65
80:6:1383:G:OP1	22:d0:87:HIS:ND1	2.26	0.65
2:s0:172:LEU:HD13	2:s0:176:LEU:HD11	1.79	0.65
34:sR:18:GLY:HA3	34:sR:38:ARG:HB2	1.76	0.65
36:5:770:G:OP1	49:m3:171:ARG:HD3	1.97	0.65
36:5:2997:G:N7	87:5:3700:OHX:N4	2.45	0.65
38:8:83:C:H4'	38:8:85:G:N3	2.11	0.65
38:8:113:U:H5''	75:o9:7:PHE:HB3	1.78	0.65
40:l3:81:THR:HG21	40:l3:205:VAL:HG11	1.78	0.65
10:S8:152:ILE:HD13	10:S8:157:GLU:OE1	1.97	0.65
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.61	0.65
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.30	0.65
36:1:3223:A:H2'	36:1:3224:G:O4'	1.96	0.65
36:1:3353:G:O2'	36:1:3356:G:H5'	1.97	0.65
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.11	0.65
46:L9:90:MET:HE3	46:L9:181:VAL:HG23	1.79	0.65
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.78	0.65
80:6:127:G:N7	8:s6:202:ARG:NH2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:18:ASN:N	41:l4:18:ASN:OD1	2.29	0.65
44:l7:173:LEU:HB3	44:l7:178:ILE:HB	1.79	0.65
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.27	0.65
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.78	0.65
13:C1:57:LYS:HB2	13:C1:110:HIS:CE1	2.32	0.65
36:1:77:A:H5'	49:M3:100:ARG:CZ	2.27	0.65
36:1:978:G:O2'	36:1:979:U:O2	2.13	0.65
36:1:1222:G:O6	87:1:3656:OHX:N2	2.30	0.65
36:1:1721:U:OP2	55:M9:124:TYR:OH	2.13	0.65
36:1:2953:U:C1'	86:A:3403:8AN:N3	2.60	0.65
38:4:83:C:H1'	38:4:85:G:N2	2.12	0.65
49:M3:175:SER:O	49:M3:178:LYS:N	2.30	0.65
59:N3:40:LYS:HG3	59:N3:57:MET:HE2	1.78	0.65
67:O1:82:GLU:OE2	87:O1:201:OHX:N1	2.29	0.65
80:6:770:A:OP2	87:6:1992:OHX:N3	2.29	0.65
19:c7:41:ILE:HD12	19:c7:47:ARG:HG2	1.77	0.65
32:e0:59:GLY:O	32:e0:61:SER:N	2.30	0.65
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.29	0.65
36:5:2518:C:H2'	36:5:2519:A:H8	1.61	0.65
87:5:3455:OHX:N4	45:l8:54:GLU:OE2	2.30	0.65
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	1.79	0.65
60:n4:58:HIS:ND1	60:n4:58:HIS:O	2.29	0.65
63:n7:124:ALA:O	63:n7:126:LYS:N	2.26	0.65
1:2:489:C:H42	1:2:497:G:H22	1.43	0.65
6:S4:246:LEU:HB2	6:S4:251:GLU:HG2	1.79	0.65
25:D3:137:LYS:O	25:D3:138:GLU:HB2	1.95	0.65
36:1:155:G:H5''	36:1:156:G:C8	2.31	0.65
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.30	0.65
36:1:668:G:OP1	87:1:3666:OHX:N2	2.29	0.65
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.32	0.65
55:M9:102:LEU:HD22	55:M9:138:LEU:HD12	1.78	0.65
80:6:428:A:N3	80:6:440:U:O2'	2.29	0.65
80:6:813:U:OP2	15:c3:76:LYS:NZ	2.29	0.65
80:6:917:U:O2	16:c4:41:ARG:NH1	2.29	0.65
2:s0:13:ASP:OD1	2:s0:179:ARG:NH2	2.25	0.65
36:5:437:G:N2	36:5:622:A:H61	1.95	0.65
36:5:560:G:H5'	50:m4:80:THR:HG21	1.78	0.65
36:5:1752:A:OP2	87:5:3582:OHX:N4	2.30	0.65
40:l3:21:ARG:HG2	40:l3:269:GLN:HG2	1.78	0.65
70:o4:99:LYS:O	70:o4:103:LYS:HG2	1.97	0.65
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:245:U:O4	87:2:1973:OHX:N5	2.30	0.64
1:2:1745:G:O6	87:2:1966:OHX:N6	2.30	0.64
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	1.79	0.64
8:s6:155:ASP:OD2	8:s6:155:ASP:N	2.30	0.64
10:s8:10:LYS:HG2	13:c1:133:LYS:HE3	1.79	0.64
36:5:314:U:H2'	36:5:315:C:C6	2.32	0.64
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.30	0.64
36:5:1601:U:OP2	55:m9:42:ARG:NH2	2.27	0.64
40:l3:159:ARG:HG2	40:l3:182:GLN:HA	1.79	0.64
44:l7:151:ARG:HD2	44:l7:244:ASN:OD1	1.96	0.64
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	1.79	0.64
64:n8:91:LEU:HA	64:n8:121:VAL:HG21	1.78	0.64
71:o5:47:VAL:O	71:o5:51:ILE:HG13	1.96	0.64
78:q2:4:VAL:O	78:q2:94:GLY:N	2.24	0.64
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.61	0.64
36:1:915:A:C5	36:1:917:A:H1'	2.32	0.64
36:1:3275:U:H5'	69:O3:68:TRP:HZ2	1.61	0.64
45:L8:33:ASN:ND2	45:L8:38:GLN:OE1	2.31	0.64
49:M3:50:PRO:O	49:M3:52:ASP:N	2.30	0.64
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	1.97	0.64
55:M9:8:LYS:HD2	55:M9:22:VAL:HG23	1.79	0.64
64:N8:64:GLN:HB2	64:N8:67:HIS:CD2	2.32	0.64
65:N9:59:LYS:HD3	65:N9:59:LYS:H	1.61	0.64
80:6:21:U:H2'	80:6:22:A:C8	2.32	0.64
80:6:491:C:H42	80:6:497:G:H21	1.43	0.64
80:6:1552:U:O4	17:c5:40:ARG:NH2	2.30	0.64
2:s0:185:ARG:H	23:d1:45:ALA:H	1.46	0.64
26:d4:3:ASP:HB2	26:d4:31:ASN:HB2	1.78	0.64
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.79	0.64
36:5:1831:U:H2'	36:5:1832:C:H6	1.62	0.64
36:5:2662:G:H2'	36:5:2663:G:C8	2.32	0.64
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.27	0.64
41:l4:283:THR:HB	41:l4:285:ASP:H	1.63	0.64
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.80	0.64
10:S8:164:ARG:NH1	36:1:3354:U:O2'	2.29	0.64
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.79	0.64
36:1:839:C:N4	36:1:854:G:O6	2.18	0.64
36:1:863:C:H2'	36:1:864:G:O4'	1.98	0.64
36:1:2675:C:N4	48:M1:22:SER:HB2	2.13	0.64
44:L7:142:SER:O	44:L7:146:GLN:HG3	1.98	0.64
51:M5:186:GLY:O	51:M5:190:THR:HG23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1229:G:O2'	80:6:1255:G:N2	2.26	0.64
2:s0:110:TYR:CE2	4:s2:64:LYS:HB3	2.32	0.64
25:d3:69:ARG:NH1	25:d3:116:ASP:OD1	2.30	0.64
36:5:839:C:O2'	36:5:1724:U:OP1	2.05	0.64
36:5:2647:A:H4'	47:m0:22:TYR:HB3	1.80	0.64
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.78	0.64
43:l6:65:ILE:O	43:l6:76:LEU:HA	1.97	0.64
68:o2:119:VAL:HG12	68:o2:122:PRO:HD3	1.80	0.64
3:S1:147:ALA:O	3:S1:148:ASN:ND2	2.31	0.64
36:1:831:G:OP2	87:1:3804:OHX:N4	2.30	0.64
36:1:980:A:H2'	36:1:981:U:C1'	2.28	0.64
36:1:1015:U:O2'	36:1:1017:C:OP2	2.11	0.64
41:L4:274:TYR:HE1	41:L4:276:LEU:HG	1.63	0.64
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.27	0.64
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.85	0.64
2:s0:175:TYR:OH	2:s0:197:ILE:O	2.15	0.64
2:s0:200:ASP:HB2	19:c7:85:VAL:HG12	1.78	0.64
7:s5:35:GLN:C	7:s5:37:GLN:H	2.05	0.64
20:c8:28:ILE:HD11	20:c8:56:LYS:HB2	1.80	0.64
36:5:1637:A:OP2	63:m7:73:LYS:NZ	2.30	0.64
36:5:2810:C:OP1	87:5:3581:OHX:N3	2.30	0.64
49:m3:36:ARG:HH11	49:m3:36:ARG:HG2	1.63	0.64
51:m5:35:VAL:HG13	51:m5:65:ARG:HB2	1.79	0.64
6:S4:71:LYS:HA	6:S4:76:VAL:O	1.98	0.64
24:D2:83:ILE:O	24:D2:86:ILE:HG13	1.98	0.64
30:D8:7:VAL:HG13	30:D8:55:VAL:HG13	1.80	0.64
30:D8:36:THR:HG1	30:D8:37:SER:H	1.45	0.64
36:1:274:G:H2'	36:1:275:U:O4'	1.98	0.64
36:1:1584:U:H2'	36:1:1585:C:C6	2.32	0.64
36:1:2319:U:O4	87:1:3579:OHX:N2	2.30	0.64
43:L6:80:ASN:OD1	43:L6:81:ALA:N	2.30	0.64
54:M8:50:LYS:O	54:M8:53:PHE:N	2.27	0.64
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.25	0.64
36:5:844:G:OP2	87:5:3725:OHX:N1	2.31	0.64
44:l7:157:ASN:O	44:l7:159:GLN:N	2.30	0.64
46:l9:75:VAL:HA	46:l9:78:MET:HG3	1.80	0.64
68:o2:19:ARG:NH1	68:o2:28:VAL:HG13	2.11	0.64
1:2:523:G:H5''	26:D4:59:GLY:O	1.97	0.64
1:2:1535:U:O2'	1:2:1536:G:N3	2.26	0.64
36:1:1230:G:H2'	36:1:1231:A:H8	1.63	0.64
36:1:1733:G:P	87:1:3805:OHX:N2	2.71	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.31	0.64
38:4:131:A:H5'	61:N5:93:TYR:CE2	2.33	0.64
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.31	0.64
80:6:116:U:H2'	80:6:117:U:C6	2.32	0.64
36:5:1114:U:OP2	87:5:3510:OHX:N5	2.31	0.64
36:5:2568:C:N4	36:5:2574:G:O6	2.30	0.64
36:5:3258:U:O4	87:5:3718:OHX:N6	2.30	0.64
64:n8:122:PRO:HB3	64:n8:142:GLY:O	1.97	0.64
67:o1:74:ARG:HH12	67:o1:109:VAL:HG11	1.63	0.64
71:o5:47:VAL:HA	71:o5:50:SER:HB2	1.79	0.64
1:2:87:C:O2'	1:2:169:A:N1	2.30	0.64
1:2:978:A:OP1	87:2:2063:OHX:N5	2.31	0.64
1:2:1623:C:H2'	1:2:1624:C:C6	2.32	0.64
3:S1:181:LEU:H	3:S1:181:LEU:HD13	1.62	0.64
5:S3:28:GLU:OE2	12:C0:56:LYS:NZ	2.16	0.64
6:S4:176:ASP:HB2	6:S4:179:LYS:HZ3	1.63	0.64
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.80	0.64
9:S7:153:LEU:HD22	9:S7:184:GLU:HB2	1.80	0.64
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.30	0.64
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.62	0.64
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.33	0.64
34:SR:116:ASP:HB3	34:SR:121:MET:HB3	1.80	0.64
41:L4:140:HIS:CD2	41:L4:247:PHE:H	2.15	0.64
41:L4:261:VAL:HG22	41:L4:262:TRP:CD1	2.33	0.64
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.30	0.64
63:N7:33:SER:HB2	63:N7:40:HIS:HE1	1.63	0.64
68:O2:102:ALA:HB2	68:O2:125:ARG:HB3	1.79	0.64
80:6:219:A:H2'	80:6:831:U:O2	1.97	0.64
3:s1:113:MET:HE2	3:s1:142:PHE:CE2	2.33	0.64
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	1.80	0.64
27:d5:43:ASP:O	27:d5:45:GLU:N	2.30	0.64
36:5:598:A:OP1	44:l7:41:ARG:NH1	2.31	0.64
36:5:1779:C:N4	55:m9:88:ARG:O	2.30	0.64
1:2:158:U:O2'	1:2:159:U:H3'	1.96	0.64
1:2:706:A:N1	1:2:734:A:N6	2.46	0.64
2:S0:172:LEU:O	2:S0:176:LEU:HG	1.98	0.64
7:S5:23:VAL:O	7:S5:34:GLN:NE2	2.31	0.64
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.27	0.64
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.79	0.64
80:6:1776:A:H2'	80:6:1777:G:C8	2.32	0.64
36:5:269:G:N2	36:5:295:A:OP2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:47:LEU:HG	40:l3:335:ILE:HD11	1.78	0.64
41:l4:33:ASP:O	41:l4:37:THR:HG23	1.98	0.64
49:m3:157:ARG:HH12	64:n8:146:GLU:CD	2.06	0.64
78:q2:74:CYS:SG	78:q2:77:CYS:SG	2.95	0.64
86:B:3403:8AN:H8	86:B:3403:8AN:O5'	1.97	0.64
1:2:741:C:O2	9:S7:107:ARG:NH1	2.27	0.64
1:2:1595:U:N3	1:2:1600:A:H2	1.96	0.64
2:S0:41:ARG:HD2	2:S0:42:PRO:O	1.97	0.64
6:S4:214:LEU:HD13	6:S4:244:ILE:HG21	1.78	0.64
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.33	0.64
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.30	0.64
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.28	0.64
2:s0:139:VAL:HG12	4:s2:62:PRO:HG3	1.79	0.64
28:d6:44:ILE:HD12	28:d6:67:THR:HG22	1.79	0.64
30:d8:32:PHE:O	30:d8:34:GLU:N	2.31	0.64
40:l3:19:ARG:HB3	40:l3:232:ARG:NH1	2.13	0.64
1:2:829:A:O2'	1:2:830:U:OP2	2.12	0.64
1:2:1114:G:O6	87:2:1953:OHX:N5	2.31	0.64
1:2:1449:U:H2'	1:2:1450:U:C6	2.33	0.64
1:2:1589:C:OP1	87:2:2067:OHX:N1	2.30	0.64
3:S1:35:PRO:HB2	3:S1:38:PHE:HE2	1.63	0.64
36:1:2357:A:OP2	87:1:3796:OHX:N2	2.30	0.64
36:1:2960:C:H2'	36:1:2961:G:C8	2.32	0.64
38:4:135:G:H5''	61:N5:49:LYS:HD2	1.79	0.64
4:s2:139:ILE:HG22	4:s2:141:ARG:HD2	1.78	0.64
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.31	0.64
36:5:2947:G:OP2	36:5:2947:G:H4'	1.97	0.64
62:n6:36:SER:O	62:n6:40:ARG:N	2.26	0.64
68:o2:82:LEU:HD11	68:o2:112:ALA:HB2	1.79	0.64
70:o4:20:ILE:HD13	70:o4:32:ALA:HB1	1.80	0.64
84:p0:190:VAL:HB	84:p0:197:PHE:HB2	1.78	0.64
12:C0:46:LEU:O	12:C0:50:THR:HG23	1.98	0.63
18:C6:115:THR:HG22	18:C6:118:ILE:HG23	1.78	0.63
36:1:92:G:OP2	36:1:93:C:H5''	1.99	0.63
36:1:383:G:O6	87:1:3602:OHX:N2	2.31	0.63
36:1:685:G:P	49:M3:35:ARG:HH11	2.21	0.63
36:1:874:U:H3	36:1:2978:U:H5''	1.62	0.63
38:4:133:G:H4'	61:N5:55:ASN:ND2	2.13	0.63
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.64	0.63
80:6:658:C:N4	80:6:673:A:N1	2.46	0.63
80:6:696:C:H4'	80:6:697:C:H6	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1738:U:H2'	80:6:1739:C:C6	2.33	0.63
36:5:864:G:OP2	87:5:3417:OHX:N2	2.31	0.63
36:5:1334:U:O2'	44:l7:151:ARG:NH2	2.31	0.63
36:5:3006:A:H2'	36:5:3007:U:O4'	1.98	0.63
63:n7:5:LEU:HD22	63:n7:77:TYR:CE2	2.33	0.63
1:2:560:U:H2'	1:2:561:G:C8	2.31	0.63
1:2:839:U:C2'	1:2:840:U:H5'	2.27	0.63
1:2:1370:U:O4	87:2:2003:OHX:N1	2.31	0.63
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.34	0.63
18:C6:46:PHE:O	18:C6:50:GLU:HG3	1.98	0.63
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	1.79	0.63
36:1:778:U:O4	87:1:3544:OHX:N2	2.31	0.63
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.32	0.63
36:1:1798:A:H2'	36:1:1799:A:C8	2.33	0.63
36:1:2404:A:OP1	87:1:3733:OHX:N5	2.30	0.63
41:L4:232:SER:OG	41:L4:233:LEU:N	2.28	0.63
80:6:628:G:N1	80:6:970:A:OP2	2.27	0.63
5:s3:11:LEU:HD12	22:d0:86:ILE:HG23	1.80	0.63
81:c0:32:HIS:CD2	81:c0:33:GLU:H	2.15	0.63
26:d4:38:ASP:OD1	26:d4:52:LYS:NZ	2.26	0.63
36:5:1258:U:H4'	84:p0:42:ARG:HH12	1.62	0.63
36:5:1606:U:O4	70:o4:9:ARG:NH2	2.20	0.63
36:5:2373:A:N7	36:5:2867:C:H1'	2.13	0.63
36:5:2427:U:H3	36:5:2602:G:H1	1.46	0.63
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.32	0.63
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.81	0.63
47:m0:45:GLU:O	47:m0:47:PRO:HD3	1.98	0.63
70:o4:80:ARG:HG3	70:o4:88:ARG:HH21	1.63	0.63
1:2:176:C:OP1	87:2:1952:OHX:N3	2.31	0.63
1:2:512:A:OP2	11:S9:172:VAL:HB	1.98	0.63
1:2:734:A:H5''	1:2:735:C:OP1	1.96	0.63
36:1:1763:U:H5'	36:1:1764:U:OP2	1.98	0.63
36:1:2307:G:O2'	36:1:2310:U:OP2	2.17	0.63
36:1:3095:U:H2'	36:1:3096:C:H6	1.64	0.63
40:L3:347:SER:O	40:L3:349:LYS:N	2.32	0.63
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.13	0.63
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.80	0.63
80:6:152:U:C2	80:6:163:G:N2	2.66	0.63
2:s0:126:PRO:HA	2:s0:133:ILE:HD11	1.78	0.63
6:s4:150:PRO:HB2	6:s4:154:ILE:HD12	1.81	0.63
34:sR:82:SER:OG	34:sR:92:TRP:NE1	2.25	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:304:G:H5'	36:5:304:G:N3	2.12	0.63
36:5:1330:A:OP1	69:o3:19:SER:HB3	1.97	0.63
41:l4:135:VAL:O	41:l4:140:HIS:HB2	1.98	0.63
62:n6:39:LEU:HD13	62:n6:43:TYR:CE2	2.30	0.63
86:A:3402:C:C4	86:A:3403:8AN:N6	2.67	0.63
1:2:1274:C:H41	35:SM:95:SER:HA	1.62	0.63
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.81	0.63
36:1:519:A:OP2	44:L7:70:LYS:NZ	2.30	0.63
36:1:563:U:OP1	56:N0:71:LYS:NZ	2.32	0.63
36:1:660:A:H5''	41:L4:100:PHE:CD1	2.34	0.63
36:1:1695:U:O2'	36:1:1749:A:N1	2.26	0.63
36:1:3166:C:H42	36:1:3284:G:H1	1.46	0.63
41:L4:158:SER:HA	41:L4:213:ASN:O	1.97	0.63
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.27	0.63
49:M3:126:PHE:HD2	71:O5:115:LYS:HD2	1.63	0.63
70:O4:41:ARG:NH2	70:O4:52:GLN:HA	2.13	0.63
71:O5:67:ARG:HG2	71:O5:80:LEU:HD22	1.80	0.63
23:d1:71:ARG:HG3	23:d1:83:TRP:CZ2	2.33	0.63
26:d4:122:GLY:O	26:d4:125:LEU:N	2.31	0.63
82:sM:64:LYS:O	82:sM:66:ALA:N	2.29	0.63
36:5:1085:A:H5''	36:5:1085:A:H8	1.63	0.63
36:5:2588:U:OP1	45:l8:48:ARG:NH2	2.32	0.63
36:5:2603:G:H2'	36:5:2604:U:O4'	1.99	0.63
63:n7:128:GLN:O	63:n7:130:PHE:N	2.32	0.63
79:q3:49:ARG:HD3	79:q3:51:ALA:O	1.98	0.63
1:2:1357:A:H2'	1:2:1358:G:C8	2.33	0.63
1:2:1542:G:H22	1:2:1568:C:H1'	1.64	0.63
4:S2:230:TRP:NE1	24:D2:68:ARG:HB3	2.13	0.63
6:S4:122:LYS:HB3	6:S4:164:LEU:HD21	1.81	0.63
36:1:64:G:OP2	51:M5:169:LYS:NZ	2.30	0.63
36:1:185:C:H2'	36:1:186:U:C6	2.33	0.63
36:1:503:C:OP1	43:L6:26:ARG:NH1	2.31	0.63
36:1:1211:U:H2'	36:1:1212:A:C8	2.33	0.63
36:1:2900:A:N3	36:1:3025:C:O2'	2.29	0.63
41:L4:181:VAL:HG21	41:L4:224:GLY:HA3	1.81	0.63
42:L5:232:ASP:O	42:L5:235:SER:OG	2.12	0.63
52:M6:27:LEU:HD22	52:M6:101:ARG:HB2	1.80	0.63
56:N0:71:LYS:O	56:N0:73:LYS:NZ	2.22	0.63
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.33	0.63
4:s2:38:VAL:N	4:s2:65:GLU:OE1	2.31	0.63
36:5:1748:G:OP1	74:o8:44:LYS:HE2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2178:A:H3'	39:l2:132:ASN:HD21	1.63	0.63
36:5:3164:C:H1'	36:5:3165:A:H5'	1.81	0.63
46:l9:92:TYR:CD2	46:l9:92:TYR:N	2.66	0.63
47:m0:177:ASP:HB2	47:m0:179:PRO:HG2	1.81	0.63
51:m5:143:ARG:HH21	71:o5:92:LEU:HD23	1.64	0.63
72:o6:58:ILE:HG22	72:o6:90:MET:HG3	1.80	0.63
1:2:1553:G:N2	1:2:1555:A:H3'	2.13	0.63
4:S2:53:ILE:O	4:S2:56:ILE:N	2.32	0.63
5:S3:178:ARG:H	5:S3:178:ARG:NE	1.96	0.63
7:S5:144:GLU:OE1	7:S5:225:ARG:NH2	2.26	0.63
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.81	0.63
36:1:844:G:N7	87:1:3459:OHX:N5	2.46	0.63
36:1:2818:U:H5'	36:1:2818:U:H6	1.64	0.63
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.81	0.63
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.79	0.63
80:6:775:G:N7	26:d4:11:LYS:NZ	2.47	0.63
80:6:1504:G:H2'	80:6:1505:A:C8	2.34	0.63
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	1.79	0.63
24:d2:53:ILE:HD13	29:d7:24:LEU:HD11	1.79	0.63
36:5:1062:A:H4'	57:n1:105:PHE:CE2	2.34	0.63
36:5:1466:G:O6	87:5:3413:OHX:N5	2.32	0.63
36:5:1944:U:H2'	36:5:1945:A:H8	1.61	0.63
36:5:2201:G:H21	39:l2:224:THR:HG21	1.63	0.63
49:m3:168:ARG:NH1	49:m3:172:LEU:HD11	2.13	0.63
72:o6:66:GLU:OE1	72:o6:70:ARG:NH2	2.31	0.63
75:o9:9:ILE:HG22	75:o9:13:MET:HE2	1.79	0.63
1:2:612:U:OP2	25:D3:5:LYS:NZ	2.32	0.63
1:2:827:C:H2'	1:2:828:U:C6	2.33	0.63
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.79	0.63
28:D6:79:ILE:HG12	28:D6:84:VAL:HG13	1.81	0.63
36:1:955:U:H2'	36:1:956:U:C6	2.33	0.63
36:1:2261:G:H21	36:1:2262:A:N6	1.96	0.63
36:1:2638:C:C2	36:1:2639:G:C8	2.87	0.63
36:1:2687:G:N7	87:1:3436:OHX:N2	2.47	0.63
46:L9:47:LYS:NZ	50:M4:5:SER:H	1.96	0.63
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.79	0.63
24:d2:55:ASP:OD2	24:d2:57:ARG:HB2	1.98	0.63
36:5:3214:U:H1'	43:l6:166:LYS:NZ	2.14	0.63
41:l4:30:ILE:HG21	41:l4:128:ALA:HB2	1.81	0.63
53:m7:128:ARG:HG2	53:m7:136:ILE:HG21	1.80	0.63
69:o3:52:VAL:HG22	69:o3:66:VAL:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:54:ILE:HD11	70:o4:78:GLY:HA2	1.80	0.63
4:S2:162:CYS:HA	87:S2:301:OHX:N5	2.14	0.63
6:S4:179:LYS:N	6:S4:194:THR:O	2.31	0.63
13:C1:101:GLU:OE2	25:D3:16:ARG:NH2	2.31	0.63
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.31	0.63
36:1:86:G:O2'	49:M3:11:LYS:HD3	1.98	0.63
36:1:1103:A:N7	44:L7:158:LYS:NZ	2.43	0.63
45:L8:78:PHE:O	45:L8:80:TYR:N	2.31	0.63
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.81	0.63
80:6:1614:A:O2'	80:6:1615:C:H5'	1.99	0.63
80:6:1767:G:OP1	80:6:1770:U:H4'	1.99	0.63
2:s0:41:ARG:N	2:s0:45:VAL:O	2.31	0.63
34:sR:297:ASP:O	34:sR:299:GLN:N	2.32	0.63
36:5:306:A:C2	36:5:2784:G:H1'	2.32	0.63
36:5:3066:U:O4	87:5:3607:OHX:N4	2.32	0.63
43:l6:78:ARG:HG3	43:l6:78:ARG:HH11	1.63	0.63
45:l8:41:GLN:HG3	45:l8:44:ARG:HH22	1.64	0.63
47:m0:168:SER:O	47:m0:170:LYS:N	2.32	0.63
72:o6:56:ARG:HH22	72:o6:76:ARG:NH1	1.97	0.63
1:2:1160:A:H2'	1:2:1161:C:C6	2.33	0.63
2:S0:47:VAL:HG21	19:C7:105:GLN:HB2	1.81	0.63
8:S6:160:ARG:HG3	60:N4:84:GLY:HA3	1.80	0.63
11:S9:126:ARG:O	11:S9:130:THR:HG22	1.98	0.63
36:1:23:A:H2'	36:1:24:G:O4'	1.98	0.63
36:1:385:A:H2'	36:1:386:A:H8	1.62	0.63
56:N0:155:ARG:HD3	56:N0:172:TYR:CD1	2.34	0.63
80:6:1564:U:H2'	80:6:1565:C:C6	2.34	0.63
36:5:22:G:O2'	38:8:40:A:N1	2.28	0.63
36:5:65:A:H4'	36:5:66:A:O5'	1.99	0.63
36:5:80:G:H2'	36:5:81:C:C6	2.33	0.63
36:5:209:A:H4'	36:5:211:A:C8	2.33	0.63
36:5:1236:G:N2	36:5:1244:A:OP1	2.31	0.63
36:5:1288:U:H2'	36:5:1289:G:H8	1.63	0.63
39:l2:54:ARG:HG2	39:l2:55:GLY:O	1.98	0.63
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.32	0.62
7:S5:29:ILE:HG21	18:C6:57:LEU:HD11	1.81	0.62
29:D7:50:ALA:O	29:D7:52:THR:N	2.32	0.62
36:1:3095:U:H2'	36:1:3096:C:C6	2.34	0.62
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.34	0.62
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.14	0.62
80:6:1561:U:H2'	80:6:1562:G:C8	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1698:G:N2	80:6:1699:G:N7	2.46	0.62
7:s5:203:LYS:O	7:s5:205:SER:N	2.32	0.62
9:s7:143:LEU:C	9:s7:145:GLY:H	2.07	0.62
13:c1:132:SER:O	13:c1:135:VAL:N	2.29	0.62
15:c3:84:ILE:HD13	15:c3:84:ILE:H	1.63	0.62
21:c9:6:VAL:HG13	21:c9:66:TYR:CZ	2.34	0.62
36:5:595:G:N1	36:5:609:G:H5''	2.14	0.62
36:5:1232:C:O2'	84:p0:36:GLN:OE1	2.14	0.62
36:5:3237:U:H2'	36:5:3238:G:O4'	1.98	0.62
52:m6:36:VAL:HB	52:m6:108:ILE:HG22	1.82	0.62
65:n9:16:ALA:O	65:n9:20:GLY:HA3	1.98	0.62
68:o2:12:LYS:HD3	68:o2:57:TYR:O	1.99	0.62
1:2:499:U:O2'	1:2:500:C:H5''	1.99	0.62
1:2:702:G:HO2'	1:2:703:G:H8	1.45	0.62
1:2:1302:U:OP1	4:S2:88:LYS:NZ	2.30	0.62
36:1:129:U:H2'	36:1:130:A:C8	2.34	0.62
36:1:158:G:H2'	36:1:159:A:H8	1.63	0.62
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.32	0.62
36:1:820:A:OP1	87:1:3479:OHX:N5	2.33	0.62
36:1:2834:G:OP1	87:1:3770:OHX:N3	2.32	0.62
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.81	0.62
80:6:621:A:N3	80:6:1107:G:H1'	2.13	0.62
80:6:1495:C:OP1	87:6:2083:OHX:N6	2.31	0.62
6:s4:87:MET:SD	6:s4:123:LEU:HB2	2.39	0.62
34:sR:25:THR:HG21	34:sR:295:SER:HA	1.81	0.62
36:5:1295:G:O2'	56:n0:115:ARG:NH1	2.30	0.62
36:5:1946:A:H61	36:5:2102:U:H3	1.47	0.62
39:l2:107:VAL:HG11	39:l2:111:THR:HG21	1.81	0.62
42:l5:270:LYS:HG3	42:l5:273:ARG:HB3	1.81	0.62
79:q3:49:ARG:HD2	79:q3:50:GLY:H	1.62	0.62
1:2:776:G:N2	1:2:785:U:H1'	2.14	0.62
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.62	0.62
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.81	0.62
26:D4:104:SER:HB3	26:D4:107:GLN:HG3	1.80	0.62
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.31	0.62
36:1:1505:C:OP1	53:M7:127:ARG:HD2	1.99	0.62
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.33	0.62
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.34	0.62
61:N5:86:VAL:HG21	61:N5:95:ILE:HG12	1.81	0.62
80:6:1234:A:H4'	33:e1:146:SER:HB3	1.81	0.62
5:s3:202:LEU:H	5:s3:202:LEU:HD22	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.31	0.62
79:q3:58:SER:O	79:q3:61:LYS:NZ	2.32	0.62
79:q3:59:CYS:SG	79:q3:60:CYS:N	2.72	0.62
1:2:323:A:OP2	10:S8:10:LYS:HG3	1.98	0.62
2:S0:179:ARG:O	2:S0:183:ARG:HG3	1.99	0.62
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.80	0.62
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.82	0.62
14:C2:129:GLU:HA	14:C2:133:LEU:HD22	1.81	0.62
24:D2:104:LEU:HB2	24:D2:124:LYS:O	1.99	0.62
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.33	0.62
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.35	0.62
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.99	0.62
80:6:151:G:N2	8:s6:13:GLN:OE1	2.31	0.62
80:6:255:U:H2'	80:6:256:A:H8	1.64	0.62
80:6:992:A:O2'	80:6:1785:U:O2	2.18	0.62
6:s4:45:ILE:HG13	6:s4:61:VAL:HG21	1.80	0.62
6:s4:252:ARG:NH2	6:s4:252:ARG:HB3	2.14	0.62
9:s7:48:GLU:OE1	9:s7:56:LYS:NZ	2.25	0.62
24:d2:66:ASN:OD1	24:d2:68:ARG:HG2	1.99	0.62
25:d3:70:LYS:HB3	25:d3:93:LEU:HD22	1.81	0.62
25:d3:141:GLU:OE1	25:d3:144:ARG:NH1	2.32	0.62
34:sR:22:SER:OG	34:sR:70:ASP:HA	1.99	0.62
36:5:1616:U:H2'	36:5:1617:G:C8	2.34	0.62
36:5:2881:C:H2'	36:5:2882:U:H6	1.64	0.62
36:5:3295:A:H2'	36:5:3296:A:C8	2.34	0.62
38:8:72:A:N3	38:8:88:A:O2'	2.32	0.62
45:l8:160:ILE:HD12	45:l8:164:VAL:HG13	1.79	0.62
14:C2:50:LYS:NZ	33:E1:106:TYR:OH	2.31	0.62
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.32	0.62
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.80	0.62
53:M7:29:THR:HG22	53:M7:87:SER:OG	1.99	0.62
58:N2:56:VAL:HG22	58:N2:65:VAL:HG22	1.81	0.62
69:O3:42:GLN:HA	69:O3:45:LEU:HG	1.80	0.62
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.63	0.62
80:6:230:C:H42	80:6:235:G:H1	1.46	0.62
80:6:452:A:OP2	87:6:1916:OHX:N4	2.31	0.62
80:6:488:G:H21	80:6:499:U:H3	1.46	0.62
80:6:1305:U:H5'	80:6:1305:U:C6	2.34	0.62
6:s4:120:SER:O	6:s4:164:LEU:HB2	1.99	0.62
18:c6:107:LYS:O	18:c6:111:SER:OG	2.17	0.62
36:5:2717:U:OP1	87:5:3570:OHX:N3	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:74:ILE:HG13	41:l4:75:PRO:HD2	1.80	0.62
63:n7:33:SER:OG	63:n7:34:LYS:N	2.32	0.62
1:2:103:A:H2	1:2:308:C:H2'	1.64	0.62
3:S1:137:ILE:HG13	3:S1:172:LEU:HD13	1.82	0.62
20:C8:69:ILE:HG22	20:C8:73:MET:HE2	1.82	0.62
34:SR:224:ASN:HB2	34:SR:231:MET:HE3	1.81	0.62
36:1:185:C:H2'	36:1:186:U:H6	1.64	0.62
36:1:409:A:H61	38:4:15:G:H1'	1.63	0.62
36:1:1688:U:H2'	36:1:1689:U:C6	2.35	0.62
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.80	0.62
36:1:3278:C:H2'	36:1:3278:C:O2	2.00	0.62
54:M8:86:THR:HG22	54:M8:105:ARG:HD2	1.82	0.62
80:6:292:U:H2'	80:6:293:U:C6	2.34	0.62
23:d1:36:VAL:O	23:d1:51:VAL:N	2.31	0.62
32:e0:30:PRO:O	32:e0:35:TYR:HB2	1.99	0.62
34:sR:89:LEU:HB2	34:sR:103:PHE:HB2	1.82	0.62
36:5:1611:G:H2'	36:5:1612:A:C8	2.28	0.62
36:5:3043:C:P	59:n3:48:ARG:HH22	2.22	0.62
36:5:3276:G:H2'	36:5:3276:G:OP2	1.98	0.62
51:m5:184:LYS:HG2	51:m5:185:ALA:N	2.14	0.62
57:n1:32:LYS:NZ	57:n1:98:HIS:H	1.97	0.62
71:o5:54:VAL:O	71:o5:58:ILE:HG13	1.99	0.62
1:2:800:U:H2'	1:2:801:G:H8	1.64	0.62
1:2:1550:A:H2'	1:2:1551:U:H6	1.63	0.62
1:2:1606:C:H2'	1:2:1607:G:C8	2.34	0.62
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.80	0.62
36:1:440:A:OP1	36:1:494:G:H1'	1.99	0.62
36:1:621:A:H8	36:1:623:U:O4	1.80	0.62
44:L7:144:ILE:HD12	44:L7:189:ILE:HG13	1.82	0.62
68:O2:8:LYS:HA	68:O2:8:LYS:HE3	1.82	0.62
4:s2:56:ILE:HA	4:s2:61:LEU:HD12	1.80	0.62
13:c1:5:LEU:HD23	13:c1:7:VAL:HA	1.82	0.62
30:d8:49:ARG:HG2	30:d8:52:ASP:OD1	2.00	0.62
34:sR:182:ASN:ND2	34:sR:184:ASN:OD1	2.32	0.62
36:5:353:G:O6	73:o7:55:ARG:NH1	2.32	0.62
36:5:1390:A:H5'	36:5:1390:A:N3	2.15	0.62
36:5:3063:C:H2'	36:5:3064:U:H6	1.63	0.62
40:l3:283:TYR:HB3	40:l3:323:MET:HE2	1.82	0.62
43:l6:13:GLU:OE1	68:o2:90:LYS:HB2	1.99	0.62
51:m5:8:GLU:HG3	51:m5:50:ARG:NH1	2.15	0.62
62:n6:120:GLN:CD	62:n6:126:LEU:HA	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:o1:44:MET:HB3	67:o1:77:ARG:NH1	2.14	0.62
8:S6:148:SER:C	8:S6:150:GLU:H	2.08	0.62
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.15	0.62
29:D7:36:LYS:HG2	29:D7:43:ILE:HG22	1.82	0.62
36:1:744:A:H1'	54:M8:141:ARG:HD3	1.81	0.62
36:1:829:U:H3	36:1:895:A:H62	1.47	0.62
36:1:3094:A:H2'	36:1:3095:U:C6	2.35	0.62
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.64	0.62
46:L9:49:ASN:C	46:L9:51:GLN:H	2.04	0.62
72:O6:5:THR:HG23	72:O6:12:ASN:C	2.23	0.62
72:O6:74:LYS:HG3	72:O6:80:PHE:N	2.14	0.62
80:6:380:U:O3'	11:s9:2:PRO:HA	2.00	0.62
4:s2:140:ARG:NH1	23:d1:10:GLU:OE1	2.33	0.62
18:c6:89:LEU:HG	18:c6:105:LEU:HD23	1.80	0.62
21:c9:33:TYR:C	21:c9:35:ASP:H	2.08	0.62
28:d6:22:ARG:NH2	28:d6:27:SER:O	2.33	0.62
36:5:915:A:H8	36:5:2136:C:HO2'	1.48	0.62
53:m7:30:ARG:HA	53:m7:119:VAL:HG21	1.81	0.62
84:p0:44:GLU:CD	84:p0:99:VAL:HG13	2.25	0.62
1:2:776:G:H22	1:2:785:U:H1'	1.65	0.62
1:2:1588:G:H1	1:2:1608:U:H3	1.47	0.62
11:S9:90:LYS:HB2	11:S9:95:TYR:CD1	2.35	0.62
11:S9:92:LYS:O	11:S9:94:ASP:N	2.31	0.62
11:S9:105:LEU:O	11:S9:107:ARG:N	2.33	0.62
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.34	0.62
20:C8:46:VAL:HG22	20:C8:72:ILE:HG22	1.81	0.62
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.82	0.62
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.82	0.62
36:1:85:A:O2'	87:1:3695:OHX:N6	2.31	0.62
36:1:1433:A:P	68:O2:19:ARG:HH22	2.23	0.62
36:1:1863:G:O6	87:1:3490:OHX:N4	2.33	0.62
36:1:1951:C:N4	36:1:2095:G:H1	1.95	0.62
36:1:2357:A:H2'	36:1:2358:A:C8	2.35	0.62
36:1:2810:C:OP1	87:1:3623:OHX:N6	2.33	0.62
36:1:3160:U:H2'	36:1:3161:C:C6	2.34	0.62
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.82	0.62
41:L4:5:GLN:HA	41:L4:20:LEU:O	1.99	0.62
44:L7:140:SER:O	44:L7:144:ILE:HG13	2.00	0.62
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.00	0.62
48:M1:47:GLN:HG2	48:M1:67:VAL:HG12	1.81	0.62
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1595:U:H3'	80:6:1596:C:O2	1.99	0.62
80:6:1769:U:O2	16:c4:136:ARG:HD2	1.99	0.62
14:c2:60:VAL:HG22	14:c2:122:VAL:HG22	1.81	0.62
24:d2:89:TRP:O	24:d2:92:ASN:N	2.32	0.62
33:e1:98:VAL:HG12	33:e1:99:LYS:H	1.64	0.62
36:5:186:U:OP2	87:5:3411:OHX:N4	2.33	0.62
36:5:2294:U:O2	36:5:2296:A:H8	1.83	0.62
36:5:3112:G:O2'	46:l9:70:THR:HB	2.00	0.62
36:5:3315:G:H2'	40:l3:123:TYR:CD1	2.34	0.62
36:5:3335:A:H5'	36:5:3335:A:H8	1.65	0.62
39:l2:83:HIS:NE2	39:l2:86:GLN:HB2	2.15	0.62
42:l5:282:ARG:O	42:l5:286:VAL:HG23	1.99	0.62
60:n4:23:ARG:HG2	60:n4:24:GLY:H	1.64	0.62
75:o9:24:PRO:HB2	75:o9:27:ILE:HD12	1.82	0.62
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.30	0.62
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.39	0.62
36:1:3258:U:O2'	36:1:3260:G:OP1	2.15	0.62
37:3:77:G:N2	37:3:102:A:OP2	2.29	0.62
46:L9:37:ASN:HD21	46:L9:39:LYS:HG3	1.65	0.62
62:N6:91:ASN:O	62:N6:93:ALA:N	2.32	0.62
80:6:330:G:H2'	80:6:331:A:C8	2.35	0.62
80:6:1280:C:H2'	80:6:1281:G:H8	1.64	0.62
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.81	0.62
4:s2:133:LYS:O	4:s2:136:VAL:HG13	1.98	0.62
6:s4:126:VAL:HG13	6:s4:158:ASP:O	1.99	0.62
9:s7:51:VAL:HB	9:s7:55:LYS:O	1.99	0.62
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.15	0.62
26:d4:57:VAL:HB	26:d4:60:PHE:HE2	1.65	0.62
32:e0:28:LYS:HZ2	32:e0:31:LYS:HE2	1.65	0.62
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.32	0.62
36:5:937:G:OP2	64:n8:26:ARG:HB3	1.99	0.62
36:5:1888:U:OP1	40:l3:247:ARG:HD3	2.00	0.62
36:5:2993:G:H2'	36:5:3142:A:N6	2.15	0.62
39:l2:105:GLY:HA3	39:l2:160:SER:HB3	1.82	0.62
51:m5:54:LYS:O	51:m5:56:LYS:N	2.32	0.62
53:m7:64:ASN:O	53:m7:80:LYS:NZ	2.18	0.62
53:m7:112:LEU:HA	53:m7:151:THR:O	2.00	0.62
54:m8:64:VAL:HG11	54:m8:113:LYS:HD2	1.81	0.62
78:q2:17:CYS:SG	78:q2:77:CYS:CB	2.88	0.62
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.32	0.61
1:2:1550:A:H2'	1:2:1551:U:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:674:G:O6	54:M8:56:LYS:NZ	2.33	0.61
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.35	0.61
37:3:49:G:N7	42:L5:58:LYS:HG3	2.15	0.61
42:L5:251:PRO:O	42:L5:253:PHE:N	2.32	0.61
46:L9:9:GLN:HG2	46:L9:52:LEU:HD21	1.81	0.61
57:N1:40:VAL:O	57:N1:61:THR:HG23	2.00	0.61
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	1.81	0.61
80:6:894:U:H2'	80:6:895:G:C8	2.34	0.61
80:6:1175:U:OP2	20:c8:137:HIS:ND1	2.32	0.61
14:c2:36:LEU:HG	14:c2:41:LEU:HD12	1.82	0.61
17:c5:108:ARG:NH2	20:c8:119:ILE:HD12	2.13	0.61
36:5:95:A:H5''	64:n8:34:MET:HB2	1.81	0.61
36:5:2416:U:O4	87:5:3689:OHX:N5	2.33	0.61
36:5:3089:C:H2'	36:5:3090:U:O4'	2.00	0.61
36:5:3243:A:N7	52:m6:156:LEU:HB3	2.14	0.61
39:l2:90:ALA:HA	39:l2:101:VAL:HG13	1.82	0.61
20:C8:27:LYS:O	20:C8:29:VAL:N	2.34	0.61
36:1:279:U:H2'	36:1:280:U:H6	1.63	0.61
36:1:977:C:OP1	54:M8:141:ARG:NH2	2.28	0.61
36:1:2707:C:H2'	36:1:2708:C:C6	2.35	0.61
41:L4:157:GLU:HG3	41:L4:251:THR:HG21	1.82	0.61
55:M9:28:GLU:OE2	87:M9:203:OHX:N5	2.33	0.61
56:N0:106:LEU:HD23	56:N0:110:MET:HG2	1.80	0.61
61:N5:92:LYS:HD2	61:N5:112:THR:HG23	1.81	0.61
75:O9:27:ILE:HG12	75:O9:30:ARG:NH1	2.14	0.61
80:6:16:G:H2'	80:6:17:C:C6	2.36	0.61
80:6:1255:G:O2'	80:6:1256:A:O5'	2.18	0.61
3:s1:109:LYS:O	3:s1:112:SER:OG	2.12	0.61
4:s2:118:ALA:HB3	4:s2:124:ALA:HB2	1.82	0.61
81:c0:21:VAL:HG12	81:c0:66:TYR:HB2	1.81	0.61
31:d9:19:ARG:HD3	31:d9:32:ARG:CD	2.30	0.61
36:5:156:G:OP2	72:o6:25:LYS:HB3	2.00	0.61
36:5:1232:C:O2	84:p0:39:HIS:NE2	2.33	0.61
36:5:1440:G:H2'	36:5:1441:G:C8	2.34	0.61
36:5:3159:C:H2'	36:5:3160:U:C6	2.35	0.61
46:l9:172:ILE:HD12	76:q0:90:ASN:HB3	1.80	0.61
47:m0:30:LYS:H	47:m0:62:SER:HB2	1.65	0.61
57:n1:78:LYS:HG2	57:n1:87:LYS:HD3	1.80	0.61
74:o8:65:LEU:HD23	74:o8:68:SER:HB2	1.82	0.61
1:2:320:U:H3'	1:2:321:C:C5'	2.26	0.61
1:2:1435:G:N7	12:C0:25:LYS:NZ	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1683:C:O2'	1:2:1684:U:O5'	2.16	0.61
11:S9:49:LEU:HD22	11:S9:53:ARG:HG3	1.82	0.61
11:S9:55:ALA:O	11:S9:59:LEU:HG	1.99	0.61
18:C6:38:LEU:O	18:C6:40:GLU:N	2.34	0.61
36:1:1369:A:H5'	64:N8:21:ARG:HD2	1.82	0.61
37:3:71:G:H2'	37:3:72:A:C8	2.35	0.61
44:L7:175:LYS:HD2	44:L7:176:TYR:CZ	2.35	0.61
80:6:329:G:H2'	80:6:330:G:H8	1.65	0.61
80:6:1297:G:N2	80:6:1300:A:OP2	2.31	0.61
80:6:1533:C:H4'	80:6:1539:G:C6	2.35	0.61
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	1.82	0.61
25:d3:23:ARG:HB3	25:d3:29:TYR:CE1	2.35	0.61
36:5:123:A:C6	36:5:150:A:C5	2.88	0.61
36:5:673:U:OP1	54:m8:21:SER:OG	2.17	0.61
36:5:1097:G:OP1	57:n1:129:LYS:NZ	2.32	0.61
36:5:2415:C:OP1	39:l2:2:GLY:HA2	2.00	0.61
36:5:2556:C:O2'	63:n7:135:ARG:NH2	2.33	0.61
39:l2:28:LYS:HB3	39:l2:123:ARG:HB3	1.82	0.61
70:o4:16:ARG:HH21	70:o4:37:LYS:HD2	1.65	0.61
1:2:740:A:H2'	1:2:741:C:H5''	1.80	0.61
1:2:823:G:H2'	1:2:824:G:C8	2.36	0.61
1:2:1239:U:O2	1:2:1246:C:N4	2.32	0.61
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	1.83	0.61
36:1:394:G:N1	36:1:397:A:OP2	2.33	0.61
36:1:551:A:O2'	36:1:552:G:O5'	2.16	0.61
36:1:1812:G:O3'	36:1:1817:G:O2'	2.17	0.61
36:1:2169:G:O6	87:1:3449:OHX:N2	2.33	0.61
36:1:2793:G:O6	87:1:3471:OHX:N5	2.34	0.61
36:1:3192:U:H2'	36:1:3193:C:H6	1.64	0.61
11:s9:134:ILE:HD13	11:s9:141:VAL:O	2.00	0.61
21:c9:28:LEU:O	21:c9:29:GLU:HB2	2.01	0.61
22:d0:69:LYS:HG2	31:d9:44:ARG:NH1	2.16	0.61
36:5:1634:G:N7	63:n7:17:ARG:NH2	2.43	0.61
39:l2:172:GLY:HA3	79:q3:68:ALA:H	1.64	0.61
44:l7:121:LYS:O	44:l7:121:LYS:HD3	1.99	0.61
66:o0:75:ASN:HA	66:o0:86:ARG:HB2	1.80	0.61
72:o6:59:ASP:O	72:o6:63:ASN:HB2	2.00	0.61
1:2:649:U:O2'	1:2:650:U:O5'	2.18	0.61
7:S5:188:LYS:NZ	27:D5:67:ASP:OD2	2.33	0.61
36:1:79:U:OP2	87:1:3456:OHX:N5	2.34	0.61
36:1:1460:A:H2'	36:1:1461:A:C8	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3253:G:N7	87:1:3594:OHX:N2	2.49	0.61
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	1.81	0.61
53:M7:29:THR:O	53:M7:32:THR:N	2.33	0.61
57:N1:40:VAL:HB	57:N1:96:ILE:HG13	1.80	0.61
80:6:325:G:H5'	13:c1:80:MET:HE3	1.82	0.61
80:6:489:C:O2'	80:6:490:C:O4'	2.18	0.61
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.31	0.61
3:s1:145:LYS:HG2	3:s1:149:GLN:CD	2.25	0.61
81:c0:1:MET:HE3	81:c0:2:LEU:H	1.65	0.61
15:c3:72:MET:HA	15:c3:75:LEU:HD12	1.83	0.61
34:sR:24:ALA:HB3	34:sR:34:LEU:HB3	1.83	0.61
36:5:600:G:N7	87:5:3627:OHX:N2	2.49	0.61
36:5:2274:U:OP2	87:5:3486:OHX:N5	2.33	0.61
36:5:2741:C:H4'	78:q2:19:LYS:HA	1.81	0.61
44:l7:135:ALA:HB2	44:l7:229:PHE:H	1.66	0.61
45:l8:148:ALA:HA	45:l8:201:THR:HG22	1.82	0.61
84:p0:189:GLN:OE1	84:p0:196:VAL:HG22	2.00	0.61
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.81	0.61
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.82	0.61
13:C1:21:ASN:HD22	13:C1:31:THR:HA	1.66	0.61
36:1:370:U:OP1	87:1:3661:OHX:N2	2.34	0.61
36:1:2533:G:C6	87:1:3747:OHX:N4	2.69	0.61
40:L3:21:ARG:HG2	40:L3:269:GLN:HG2	1.83	0.61
52:M6:54:TYR:CE2	52:M6:58:LEU:HD22	2.36	0.61
68:O2:111:ARG:NH2	68:O2:115:LEU:HD21	2.15	0.61
79:Q3:36:ARG:HD3	79:Q3:45:LYS:O	2.00	0.61
8:s6:7:TYR:CD1	8:s6:125:THR:HA	2.35	0.61
47:m0:76:MET:CE	47:m0:148:VAL:HA	2.28	0.61
54:m8:85:GLY:O	54:m8:104:LEU:HB2	2.00	0.61
1:2:488:G:OP1	1:2:488:G:H4'	1.99	0.61
1:2:992:A:H2'	1:2:993:A:H5'	1.83	0.61
1:2:1290:U:H2'	1:2:1291:G:C8	2.35	0.61
1:2:1536:G:N1	1:2:1538:U:O2	2.33	0.61
24:D2:39:GLN:O	24:D2:43:LYS:HB3	1.99	0.61
27:D5:40:VAL:HA	27:D5:75:LEU:HD11	1.81	0.61
36:1:1456:A:N6	36:1:1477:A:H4'	2.15	0.61
36:1:2174:G:OP2	39:L2:193:ARG:NH1	2.32	0.61
42:L5:25:GLU:O	42:L5:27:LYS:HG3	2.01	0.61
79:Q3:33:GLN:HG3	79:Q3:34:HIS:CD2	2.36	0.61
80:6:385:A:H2'	80:6:386:G:C8	2.36	0.61
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:76:LEU:HD21	4:s2:104:VAL:HB	1.82	0.61
4:s2:140:ARG:HB3	4:s2:221:THR:HB	1.82	0.61
11:s9:133:HIS:HD2	11:s9:162:SER:HB2	1.65	0.61
11:s9:146:PHE:O	11:s9:147:MET:HB2	2.01	0.61
81:c0:1:MET:HE2	81:c0:41:TYR:CE1	2.36	0.61
17:c5:108:ARG:HH21	20:c8:119:ILE:HD12	1.63	0.61
19:c7:105:GLN:O	19:c7:109:LEU:N	2.33	0.61
36:5:223:U:O4	87:5:3795:OHX:N4	2.33	0.61
36:5:353:G:N7	73:o7:55:ARG:HD3	2.16	0.61
36:5:1783:U:H2'	36:5:1784:G:C8	2.35	0.61
37:7:2:G:O2'	37:7:23:A:N1	2.34	0.61
38:8:79:A:H3'	38:8:80:A:C8	2.36	0.61
41:l4:301:PRO:O	54:m8:39:ARG:NH1	2.17	0.61
59:n3:67:PRO:C	59:n3:69:LEU:H	2.09	0.61
1:2:565:C:O2	87:2:1917:OHX:N5	2.33	0.61
9:S7:157:LYS:O	9:S7:159:VAL:N	2.34	0.61
14:C2:28:LEU:HD13	14:C2:32:LEU:HD11	1.81	0.61
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.81	0.61
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.16	0.61
27:D5:56:THR:HA	27:D5:103:ARG:HH11	1.65	0.61
36:1:419:G:N7	87:1:3409:OHX:N6	2.49	0.61
36:1:608:A:O3'	41:L4:326:ARG:NH1	2.33	0.61
36:1:1491:A:N7	75:O9:2:ALA:HB3	2.15	0.61
36:1:2616:C:C2'	36:1:2617:U:H5'	2.30	0.61
36:1:3034:C:H1'	46:L9:120:ASP:OD1	2.00	0.61
53:M7:30:ARG:C	53:M7:30:ARG:HD3	2.26	0.61
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.83	0.61
80:6:123:G:H21	6:s4:146:THR:HG21	1.65	0.61
80:6:1241:G:H2'	80:6:1242:A:O4'	2.01	0.61
3:s1:197:ILE:HG22	3:s1:210:ILE:HD13	1.83	0.61
25:d3:30:LYS:HE2	25:d3:34:LEU:HD11	1.81	0.61
32:e0:41:THR:HA	32:e0:45:VAL:HB	1.83	0.61
36:5:1409:G:N7	87:5:3675:OHX:N6	2.49	0.61
36:5:2812:C:H2'	36:5:2813:A:H8	1.64	0.61
36:5:3343:G:O6	87:5:3716:OHX:N5	2.34	0.61
47:m0:12:GLN:HA	47:m0:59:GLN:OE1	2.00	0.61
59:n3:33:ASN:OD1	59:n3:64:LYS:HB2	2.01	0.61
72:o6:53:TYR:HD1	72:o6:57:LEU:HD23	1.66	0.61
77:q1:8:LYS:HD3	77:q1:12:ARG:NH2	2.16	0.61
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.83	0.61
1:2:67:A:C2	1:2:69:G:H1'	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.01	0.61
1:2:936:G:N7	28:D6:15:ARG:NH1	2.49	0.61
1:2:1357:A:H2'	1:2:1358:G:H8	1.66	0.61
1:2:1644:C:O2'	36:1:2255:A:N1	2.32	0.61
1:2:1746:A:H2'	1:2:1747:G:O4'	2.00	0.61
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.36	0.61
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	1.82	0.61
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.82	0.61
17:C5:80:MET:HB2	17:C5:83:MET:HE2	1.83	0.61
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.00	0.61
36:1:2129:U:O4	87:1:3694:OHX:N3	2.34	0.61
36:1:2229:A:H2'	36:1:2230:C:C6	2.36	0.61
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.36	0.61
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.00	0.61
80:6:488:G:N2	80:6:499:U:H3	1.98	0.61
80:6:976:G:O6	87:6:1934:OHX:N6	2.34	0.61
3:s1:33:LYS:HE2	3:s1:41:ARG:HH12	1.65	0.61
7:s5:143:ARG:HD3	30:d8:55:VAL:HG11	1.83	0.61
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.82	0.61
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	1.83	0.61
22:d0:68:ARG:NH1	22:d0:77:LYS:HG3	2.15	0.61
36:5:44:U:OP1	51:m5:84:PRO:HD2	2.00	0.61
36:5:1347:U:OP2	54:m8:38:ARG:NE	2.26	0.61
36:5:1659:U:OP1	87:5:3789:OHX:N3	2.33	0.61
36:5:1796:G:O6	87:5:3771:OHX:N5	2.33	0.61
38:8:53:A:C2	75:o9:35:ILE:HD11	2.35	0.61
38:8:155:A:H5'	45:l8:185:ARG:HD2	1.82	0.61
42:l5:40:HIS:CE1	57:n1:69:LYS:HA	2.36	0.61
56:n0:155:ARG:HH21	56:n0:172:TYR:H	1.49	0.61
61:n5:101:GLU:HG2	61:n5:102:LEU:HD23	1.82	0.61
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.38	0.61
1:2:1617:U:H1'	30:D8:22:ARG:O	1.99	0.61
4:S2:168:ARG:HD3	4:S2:170:ILE:HD11	1.81	0.61
5:S3:64:ARG:O	5:S3:67:ASN:N	2.31	0.61
9:S7:173:TYR:HE1	9:S7:179:LYS:HB2	1.65	0.61
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.83	0.61
17:C5:60:LEU:HD21	17:C5:92:SER:HB3	1.81	0.61
18:C6:35:PRO:HG2	18:C6:38:LEU:HG	1.82	0.61
18:C6:47:LYS:NZ	18:C6:114:ARG:HG2	2.15	0.61
36:1:352:A:N6	36:1:365:A:H5''	2.16	0.61
36:1:677:A:C8	36:1:786:A:C6	2.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1148:G:O6	87:1:3724:OHX:N6	2.34	0.61
36:1:2898:G:H5''	36:1:2899:C:H5'	1.81	0.61
80:6:1:U:O2	80:6:369:A:H2'	2.00	0.61
80:6:992:A:H2'	80:6:993:A:H5'	1.82	0.61
3:s1:103:MET:HE1	3:s1:212:VAL:HG22	1.83	0.61
4:s2:88:LYS:HG2	4:s2:89:GLN:H	1.65	0.61
6:s4:49:ARG:NH2	6:s4:50:ASN:OD1	2.32	0.61
14:c2:97:LEU:HD11	14:c2:121:VAL:HG22	1.83	0.61
20:c8:26:ILE:HG13	20:c8:31:ALA:HB2	1.81	0.61
36:5:72:C:C2	36:5:74:G:H1'	2.36	0.61
36:5:126:U:H2'	36:5:127:G:O4'	2.01	0.61
36:5:1145:G:H5'	68:o2:46:PHE:CE1	2.36	0.61
36:5:1491:A:HO2'	36:5:1843:C:HO2'	1.40	0.61
36:5:1765:U:OP1	36:5:1765:U:H4'	2.01	0.61
36:5:1944:U:H2'	36:5:1945:A:C8	2.35	0.61
36:5:2818:U:H5'	36:5:2818:U:H6	1.64	0.61
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.66	0.61
46:l9:137:SER:HB3	46:l9:140:VAL:HG13	1.82	0.61
47:m0:68:ALA:HB2	47:m0:158:LYS:HB2	1.82	0.61
48:m1:166:LYS:C	48:m1:168:ASP:H	2.09	0.61
83:m2:79:UNK:O	83:m2:83:UNK:N	2.34	0.61
52:m6:171:LYS:O	52:m6:175:THR:HG22	2.00	0.61
56:n0:10:ILE:HG12	56:n0:26:ARG:HB2	1.83	0.61
56:n0:26:ARG:HH11	57:n1:150:THR:HG21	1.65	0.61
68:o2:24:ARG:HG2	68:o2:25:TYR:CZ	2.36	0.61
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.34	0.60
3:S1:109:LYS:HE3	3:S1:113:MET:HE2	1.83	0.60
13:C1:125:VAL:HG13	13:C1:137:PHE:HB3	1.82	0.60
36:1:809:G:N1	36:1:932:U:O4	2.34	0.60
36:1:840:C:H4'	55:M9:128:LYS:HD3	1.83	0.60
36:1:1492:G:N7	75:O9:2:ALA:HB2	2.16	0.60
38:4:68:G:OP2	87:O7:102:OHX:N6	2.34	0.60
41:L4:4:PRO:HG2	41:L4:22:LEU:HD12	1.81	0.60
41:L4:198:ARG:HH12	62:N6:12:ARG:HD2	1.66	0.60
50:M4:72:LEU:HD22	50:M4:73:PRO:HD2	1.83	0.60
52:M6:119:VAL:HG12	56:N0:164:SER:HB3	1.83	0.60
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.36	0.60
59:N3:93:LEU:HD23	59:N3:93:LEU:H	1.65	0.60
80:6:1391:A:H2'	80:6:1392:U:C6	2.36	0.60
2:s0:147:THR:O	2:s0:161:PRO:HA	2.01	0.60
5:s3:168:ILE:HG22	5:s3:189:MET:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:d4:54:ALA:HB2	26:d4:79:VAL:HA	1.83	0.60
26:d4:84:LYS:HB3	26:d4:85:PHE:HD2	1.66	0.60
36:5:142:C:H2'	36:5:143:G:O4'	2.01	0.60
36:5:2157:G:N7	39:l2:152:SER:OG	2.30	0.60
36:5:3165:A:H2'	36:5:3166:C:C6	2.36	0.60
40:l3:37:ARG:HA	40:l3:186:GLY:HA2	1.83	0.60
56:n0:78:TRP:CE3	56:n0:125:LYS:HG2	2.36	0.60
71:o5:45:LYS:O	71:o5:49:LYS:HG2	1.99	0.60
1:2:75:U:H2'	1:2:76:A:O4'	2.00	0.60
1:2:256:A:H2'	1:2:257:A:O4'	2.01	0.60
1:2:855:A:C2	1:2:857:U:H1'	2.35	0.60
2:S0:193:GLN:O	2:S0:195:TRP:N	2.34	0.60
10:S8:89:GLU:O	10:S8:93:THR:OG1	2.18	0.60
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.13	0.60
33:E1:102:VAL:HG13	33:E1:103:LEU:H	1.66	0.60
36:1:1949:G:OP1	55:M9:104:ARG:NH1	2.34	0.60
38:4:142:C:H2'	38:4:143:U:C6	2.36	0.60
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.82	0.60
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	1.83	0.60
62:N6:74:TYR:CD1	62:N6:77:LYS:HG3	2.36	0.60
63:N7:88:ASP:HB3	63:N7:121:ARG:HH21	1.65	0.60
71:O5:24:LEU:HD13	71:O5:50:SER:HB3	1.81	0.60
80:6:828:U:H2'	80:6:829:A:H5''	1.83	0.60
80:6:1133:A:H2'	80:6:1134:C:O4'	2.01	0.60
80:6:1491:U:H5'	80:6:1492:A:OP1	2.01	0.60
80:6:1654:G:P	77:q1:21:ARG:HH11	2.23	0.60
82:sM:58:GLU:OE2	82:sM:62:ARG:HD2	2.01	0.60
36:5:1921:A:H2'	36:5:1922:A:H8	1.66	0.60
1:2:1381:U:H1'	1:2:1516:A:N6	2.16	0.60
3:S1:154:SER:O	3:S1:154:SER:OG	2.19	0.60
18:C6:7:VAL:HG22	18:C6:22:VAL:HB	1.83	0.60
34:SR:221:MET:HG2	34:SR:233:THR:HG23	1.82	0.60
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.34	0.60
36:1:1712:G:O6	66:O0:28:LYS:NZ	2.30	0.60
36:1:2123:G:N7	87:1:3648:OHX:N2	2.49	0.60
36:1:3148:U:O4	87:1:3652:OHX:N2	2.34	0.60
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	1.83	0.60
48:M1:34:SER:HB2	48:M1:67:VAL:HG11	1.82	0.60
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.21	0.60
53:M7:62:ARG:HG2	53:M7:63:PHE:CD1	2.37	0.60
60:N4:4:GLU:HG2	60:N4:30:ARG:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:97:SER:C	72:O6:99:ARG:H	2.09	0.60
78:Q2:48:SER:O	87:Q2:502:OHX:N6	2.33	0.60
80:6:169:A:H5''	8:s6:176:GLN:HG2	1.83	0.60
8:s6:48:TYR:CZ	8:s6:121:LEU:HD22	2.36	0.60
36:5:776:U:H5	36:5:2719:U:O2	1.84	0.60
41:l4:144:LYS:CG	41:l4:145:ILE:H	2.14	0.60
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.26	0.60
52:m6:125:ARG:HG3	52:m6:129:LEU:HD22	1.82	0.60
62:n6:52:ARG:HH11	62:n6:52:ARG:HB3	1.65	0.60
74:o8:16:ARG:O	74:o8:18:ALA:N	2.34	0.60
1:2:5:U:H2'	1:2:6:G:H8	1.66	0.60
1:2:1332:C:H6	1:2:1332:C:O5'	1.85	0.60
4:S2:242:ILE:HG22	4:S2:243:TYR:CE2	2.35	0.60
36:1:1230:G:H2'	36:1:1231:A:C8	2.36	0.60
41:L4:177:ASP:OD1	41:L4:180:LYS:HE3	2.00	0.60
41:L4:362:ASP:C	57:N1:150:THR:HG21	2.27	0.60
80:6:383:G:N7	87:6:2004:OHX:N5	2.50	0.60
80:6:1098:U:OP2	4:s2:168:ARG:NE	2.34	0.60
80:6:1638:G:C2	80:6:1639:C:H1'	2.36	0.60
3:s1:142:PHE:O	3:s1:207:LEU:HA	2.01	0.60
5:s3:116:ARG:HG3	5:s3:152:PHE:HE1	1.65	0.60
19:c7:104:ASN:O	19:c7:106:THR:N	2.34	0.60
36:5:213:A:H5''	62:n6:2:ALA:N	2.17	0.60
36:5:1566:A:N6	36:5:1571:A:N1	2.50	0.60
36:5:1901:A:H5''	36:5:1902:G:OP2	2.02	0.60
36:5:2207:A:H2'	36:5:2208:A:O4'	2.01	0.60
36:5:2360:C:OP1	87:5:3684:OHX:N1	2.34	0.60
37:7:13:A:OP1	37:7:111:U:O2'	2.18	0.60
38:8:107:G:H1'	38:8:116:G:H22	1.66	0.60
40:l3:19:ARG:HB3	40:l3:232:ARG:HH12	1.65	0.60
52:m6:62:THR:H	52:m6:69:GLY:HA3	1.66	0.60
54:m8:178:ARG:HG2	64:n8:51:GLY:HA3	1.83	0.60
63:n7:87:LEU:HD13	63:n7:127:ASN:OD1	1.99	0.60
66:o0:42:ILE:HG13	66:o0:67:VAL:HG13	1.83	0.60
84:p0:105:VAL:HG23	84:p0:184:GLY:N	2.16	0.60
13:C1:98:ASN:O	13:C1:98:ASN:ND2	2.34	0.60
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	1.83	0.60
36:1:1472:U:H5'	55:M9:4:LEU:HB2	1.83	0.60
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.84	0.60
52:M6:94:ARG:O	52:M6:97:ALA:HB3	2.00	0.60
71:O5:101:THR:CG2	71:O5:104:GLN:HB2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:27:U:H2'	80:6:28:A:C8	2.32	0.60
80:6:66:U:O2'	80:6:67:A:H5''	2.01	0.60
80:6:538:A:C8	80:6:543:C:N4	2.69	0.60
80:6:1381:U:OP1	87:6:2043:OHX:N6	2.35	0.60
80:6:1452:U:H2'	80:6:1453:G:H8	1.66	0.60
9:s7:103:SER:N	9:s7:106:SER:O	2.34	0.60
9:s7:143:LEU:O	9:s7:145:GLY:N	2.34	0.60
21:c9:97:SER:O	21:c9:101:ASN:ND2	2.34	0.60
36:5:439:C:H4'	36:5:440:A:H5'	1.82	0.60
36:5:860:G:C5	39:l2:181:LYS:HB2	2.37	0.60
36:5:2653:C:P	78:q2:89:LYS:HB2	2.41	0.60
36:5:3047:U:O2'	40:l3:53:MET:HE1	2.01	0.60
39:l2:227:ARG:HB2	39:l2:239:ALA:HB2	1.84	0.60
40:l3:227:GLU:HG3	40:l3:270:ARG:HE	1.66	0.60
46:l9:13:PRO:HG2	46:l9:16:VAL:HG21	1.81	0.60
59:n3:18:PRO:HA	59:n3:51:ALA:HA	1.82	0.60
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.00	0.60
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.82	0.60
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.84	0.60
34:SR:305:TYR:HB2	34:SR:309:VAL:O	2.02	0.60
36:1:285:A:H1'	78:Q2:45:ARG:HH21	1.66	0.60
36:1:1389:G:O2'	36:1:1418:A:N1	2.32	0.60
36:1:1895:A:O2'	36:1:3053:G:H4'	2.00	0.60
36:1:2895:G:H5''	76:Q0:102:ARG:NH2	2.17	0.60
36:1:3320:A:N6	36:1:3386:G:O6	2.34	0.60
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.66	0.60
56:N0:10:ILE:O	56:N0:59:VAL:N	2.25	0.60
69:O3:59:VAL:C	69:O3:61:GLY:H	2.08	0.60
80:6:800:U:H2'	80:6:801:G:C8	2.32	0.60
80:6:1007:C:H5''	16:c4:135:ARG:HG3	1.83	0.60
80:6:1238:A:OP2	87:6:1951:OHX:N1	2.35	0.60
26:d4:32:ARG:NH2	26:d4:39:GLU:OE2	2.33	0.60
36:5:3255:U:O4	87:5:3804:OHX:N2	2.35	0.60
1:2:751:G:H2'	1:2:752:A:H8	1.67	0.60
1:2:1684:U:O2	1:2:1718:G:N2	2.34	0.60
15:C3:91:LEU:HB3	15:C3:122:ILE:HG12	1.84	0.60
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.19	0.60
35:SM:39:PRO:HB2	35:SM:40:PRO:HD2	1.83	0.60
36:1:2992:U:H1'	53:M7:69:ARG:NH2	2.17	0.60
36:1:3345:G:O6	87:1:3750:OHX:N3	2.35	0.60
87:1:3774:OHX:N3	53:M7:53:ASP:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	1.83	0.60
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.65	0.60
80:6:180:A:H2'	80:6:181:A:O4'	2.02	0.60
80:6:700:C:H2'	80:6:701:U:C6	2.36	0.60
80:6:837:G:O6	87:6:1955:OHX:N1	2.35	0.60
4:s2:163:GLY:O	4:s2:165:VAL:N	2.34	0.60
7:s5:94:THR:CG2	7:s5:114:ILE:HG13	2.29	0.60
36:5:2418:G:O6	87:5:3779:OHX:N2	2.35	0.60
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.37	0.60
52:m6:16:VAL:HG23	52:m6:42:ASN:O	2.02	0.60
61:n5:86:VAL:HG11	61:n5:95:ILE:HD11	1.82	0.60
65:n9:14:ARG:HH12	65:n9:18:ARG:NH1	1.99	0.60
1:2:1795:U:H3'	28:D6:5:ARG:HH12	1.67	0.60
24:D2:12:ASN:O	24:D2:15:ASN:N	2.35	0.60
36:1:507:U:H2'	36:1:508:U:C6	2.37	0.60
36:1:706:A:H4'	36:1:781:G:O2'	2.01	0.60
37:3:71:G:H2'	37:3:72:A:H8	1.67	0.60
39:L2:202:VAL:HG23	39:L2:211:HIS:HB3	1.84	0.60
52:M6:51:LYS:HE2	52:M6:144:SER:OG	2.01	0.60
53:M7:102:ALA:HB1	53:M7:107:LEU:HB2	1.84	0.60
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.26	0.60
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.02	0.60
80:6:753:A:N6	6:s4:187:ARG:HH22	1.99	0.60
80:6:1368:G:O6	87:6:1939:OHX:N3	2.33	0.60
80:6:1405:G:H2'	80:6:1406:A:C8	2.36	0.60
10:s8:76:THR:HG23	10:s8:108:PRO:HG2	1.84	0.60
16:c4:61:MET:O	16:c4:65:GLN:HG2	2.01	0.60
36:5:175:C:H2'	36:5:176:G:H8	1.65	0.60
36:5:996:A:H2'	36:5:997:A:O4'	2.01	0.60
36:5:2268:U:H2'	36:5:2269:U:H2'	1.84	0.60
42:l5:22:ARG:NH1	42:l5:28:THR:OG1	2.34	0.60
43:l6:97:ASN:O	43:l6:99:GLU:N	2.33	0.60
76:q0:90:ASN:OD1	76:q0:90:ASN:N	2.34	0.60
1:2:1353:U:O4	87:2:2030:OHX:N5	2.35	0.60
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.37	0.60
36:1:898:U:H2'	36:1:899:U:O4'	2.01	0.60
36:1:1081:U:O5'	87:1:3742:OHX:N6	2.35	0.60
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.35	0.60
45:L8:109:LEU:O	45:L8:113:ALA:N	2.34	0.60
65:N9:16:ALA:HB1	65:N9:21:ILE:HD11	1.84	0.60
78:Q2:2:VAL:N	78:Q2:90:HIS:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2211:U:H5	36:5:2234:G:O6	1.85	0.60
36:5:2245:C:H4'	39:12:221:LYS:O	2.01	0.60
40:13:44:THR:CG2	40:13:184:ASN:HB2	2.32	0.60
41:14:44:LYS:HB3	41:14:47:ARG:NH1	2.16	0.60
50:m4:99:TRP:O	50:m4:103:ILE:HG13	2.02	0.60
59:n3:79:VAL:HG12	59:n3:122:CYS:SG	2.41	0.60
79:q3:36:ARG:HD3	79:q3:45:LYS:O	2.01	0.60
1:2:1451:C:H2'	1:2:1452:U:H6	1.66	0.60
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.33	0.60
13:C1:3:THR:HG1	13:C1:82:ARG:HE	1.43	0.60
26:D4:91:LEU:HA	26:D4:96:LEU:HD12	1.84	0.60
28:D6:18:VAL:HG23	28:D6:19:LYS:H	1.66	0.60
34:SR:74:THR:HG23	34:SR:79:TYR:HB2	1.84	0.60
34:SR:90:ARG:NH1	34:SR:99:THR:OG1	2.35	0.60
36:1:976:U:OP1	54:M8:144:ARG:NH2	2.35	0.60
36:1:1038:C:H4'	42:L5:5:LYS:NZ	2.17	0.60
36:1:1074:U:O2'	36:1:1075:A:H2'	2.02	0.60
36:1:1141:C:H2'	36:1:1142:G:O4'	2.01	0.60
36:1:1564:U:H2'	36:1:1565:G:C8	2.37	0.60
36:1:2217:U:H2'	36:1:2218:G:H8	1.67	0.60
36:1:2599:U:H2'	36:1:2600:C:H6	1.67	0.60
51:M5:63:ARG:NH2	51:M5:131:GLU:OE2	2.32	0.60
80:6:1573:A:H4'	80:6:1574:G:H5'	1.84	0.60
36:5:2298:U:OP1	87:5:3447:OHX:N1	2.35	0.60
43:l6:45:GLY:O	43:l6:48:ARG:HD3	2.01	0.60
49:m3:105:ASN:OD1	49:m3:107:GLU:HG2	2.02	0.60
64:n8:7:LYS:O	64:n8:9:ARG:N	2.34	0.60
1:2:343:C:H2'	1:2:344:A:C8	2.37	0.59
6:S4:159:THR:HG22	6:S4:173:ILE:HB	1.84	0.59
6:S4:240:LYS:HE2	6:S4:240:LYS:H	1.67	0.59
36:1:549:U:O4	87:1:3598:OHX:N5	2.35	0.59
36:1:655:C:H2'	36:1:656:A:C8	2.37	0.59
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.34	0.59
41:L4:29:PRO:HG3	41:L4:279:HIS:CD2	2.36	0.59
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.84	0.59
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.84	0.59
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.84	0.59
47:M0:191:LYS:HB3	47:M0:213:PHE:CE2	2.36	0.59
52:M6:42:ASN:OD1	52:M6:125:ARG:NH1	2.34	0.59
80:6:639:U:H5''	9:s7:101:LYS:HD3	1.84	0.59
2:s0:9:LEU:HD11	2:s0:14:ALA:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:72:HIS:CD2	7:s5:107:LYS:HG2	2.37	0.59
11:s9:163:PRO:HB3	11:s9:169:PRO:HA	1.83	0.59
16:c4:30:VAL:HG12	16:c4:39:ILE:HB	1.83	0.59
21:c9:84:LYS:HD2	21:c9:94:ILE:HG13	1.84	0.59
36:5:507:U:H2'	36:5:508:U:C6	2.37	0.59
36:5:1110:U:O4	87:5:3492:OHX:N4	2.35	0.59
36:5:1213:G:H4'	56:m0:90:MET:CG	2.26	0.59
36:5:1592:G:OP1	70:o4:58:ARG:NH1	2.35	0.59
36:5:2854:U:P	47:m0:3:ARG:HH22	2.25	0.59
36:5:3288:G:O2'	36:5:3289:G:H8	1.85	0.59
39:l2:68:LYS:HG2	39:l2:70:ARG:HE	1.66	0.59
46:l9:188:THR:HG22	46:l9:189:GLU:HG2	1.83	0.59
1:2:142:G:O6	8:S6:177:ARG:NH1	2.27	0.59
1:2:1591:C:H2'	1:2:1592:A:C8	2.36	0.59
4:S2:218:ILE:O	4:S2:221:THR:OG1	2.18	0.59
36:1:2339:C:P	59:N3:48:ARG:HG2	2.41	0.59
37:3:50:U:H2'	37:3:51:A:H5'	1.84	0.59
38:4:85:G:H3'	38:4:85:G:C8	2.37	0.59
80:6:16:G:H1'	80:6:1138:A:H61	1.67	0.59
80:6:1251:U:H4'	33:e1:134:ASN:H	1.68	0.59
80:6:1542:G:N2	80:6:1569:A:OP2	2.21	0.59
2:s0:163:ASN:C	2:s0:165:ARG:H	2.10	0.59
4:s2:176:SER:HB2	4:s2:195:ASP:HB3	1.83	0.59
10:s8:8:ARG:NH2	10:s8:28:GLU:OE1	2.35	0.59
82:sM:58:GLU:O	82:sM:62:ARG:HB2	2.02	0.59
36:5:2988:C:P	52:m6:68:ARG:NH1	2.75	0.59
37:7:62:U:O3'	42:l5:285:ARG:NH1	2.36	0.59
45:l8:149:LYS:HD3	45:l8:201:THR:O	2.02	0.59
1:2:653:C:H2'	1:2:654:C:O4'	2.02	0.59
1:2:1241:G:H5'	17:C5:102:PHE:CZ	2.38	0.59
1:2:1570:A:OP1	87:2:2050:OHX:N5	2.34	0.59
26:D4:35:VAL:HG11	26:D4:40:LEU:HD21	1.82	0.59
26:D4:57:VAL:HG13	26:D4:60:PHE:HE2	1.67	0.59
36:1:786:A:H4'	36:1:787:G:H5'	1.84	0.59
36:1:1098:A:O2'	57:N1:130:ARG:O	2.19	0.59
36:1:1108:U:H2'	36:1:1109:U:H6	1.67	0.59
36:1:1165:A:H2'	36:1:1166:G:O4'	2.03	0.59
36:1:1170:A:H2'	36:1:1171:G:O4'	2.02	0.59
36:1:1256:G:O6	36:1:1261:G:N2	2.34	0.59
36:1:1675:G:H2'	36:1:1676:A:H8	1.67	0.59
36:1:2165:G:H5''	36:1:2166:A:OP2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2418:G:O6	87:1:3662:OHX:N1	2.35	0.59
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.37	0.59
59:N3:74:MET:HE3	59:N3:102:ILE:HD13	1.83	0.59
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.84	0.59
69:O3:105:SER:OG	69:O3:106:ASN:N	2.35	0.59
80:6:76:A:H3'	87:6:2074:OHX:N1	2.17	0.59
3:s1:47:LEU:H	3:s1:47:LEU:HD12	1.67	0.59
3:s1:103:MET:HE2	3:s1:215:VAL:HG12	1.83	0.59
7:s5:156:ARG:HA	7:s5:157:ARG:HH21	1.67	0.59
13:c1:22:ASN:HB3	13:c1:25:VAL:HG23	1.84	0.59
15:c3:83:GLU:HG3	15:c3:84:ILE:H	1.67	0.59
23:d1:32:VAL:HG12	23:d1:55:LEU:HB2	1.83	0.59
25:d3:79:ASN:HB3	25:d3:81:LYS:HG3	1.84	0.59
36:5:2255:A:OP2	36:5:2261:G:N1	2.30	0.59
36:5:3215:A:OP2	50:m4:125:LYS:NZ	2.34	0.59
40:l3:284:ARG:HG2	40:l3:321:PHE:HE1	1.66	0.59
41:l4:186:LYS:N	41:l4:200:THR:O	2.34	0.59
66:o0:13:LYS:O	66:o0:17:VAL:HG23	2.02	0.59
68:o2:105:ARG:O	68:o2:109:LEU:HB2	2.02	0.59
1:2:413:U:H2'	1:2:414:C:C6	2.38	0.59
1:2:542:A:H5''	1:2:544:A:C8	2.37	0.59
1:2:1207:C:H42	1:2:1456:C:H5	1.51	0.59
1:2:1340:U:C2	1:2:1378:U:H4'	2.37	0.59
10:S8:11:ARG:HD3	10:S8:15:GLY:O	2.02	0.59
15:C3:127:ARG:O	15:C3:131:THR:OG1	2.18	0.59
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.68	0.59
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.28	0.59
36:1:13:A:OP2	87:1:3783:OHX:N5	2.35	0.59
36:1:431:U:O4	87:1:3537:OHX:N2	2.36	0.59
36:1:2986:U:H2'	36:1:2987:A:H8	1.66	0.59
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.35	0.59
36:1:3366:G:H2'	36:1:3367:C:C6	2.37	0.59
36:1:3380:U:H2'	36:1:3381:U:C6	2.37	0.59
39:L2:204:MET:HB3	39:L2:208:ASP:HB2	1.85	0.59
42:L5:114:GLY:C	42:L5:116:ASP:H	2.10	0.59
66:O0:98:SER:OG	66:O0:99:ASP:N	2.28	0.59
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.37	0.59
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.01	0.59
80:6:417:A:H4'	80:6:418:G:O5'	2.01	0.59
80:6:1309:C:O2'	80:6:1401:A:N1	2.34	0.59
80:6:1529:C:H2'	80:6:1530:C:C6	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:55:GLU:HG2	23:d1:79:LEU:HD22	1.82	0.59
42:l5:279:LYS:NZ	42:l5:282:ARG:HH22	2.01	0.59
44:l7:134:VAL:O	44:l7:229:PHE:HA	2.03	0.59
48:m1:107:ASP:OD1	48:m1:107:ASP:N	2.35	0.59
1:2:652:G:H1	1:2:682:C:N4	2.00	0.59
1:2:767:U:C6	11:S9:141:VAL:HA	2.38	0.59
1:2:803:A:N3	9:S7:104:ARG:NH1	2.51	0.59
1:2:1156:C:C2'	1:2:1157:A:H5'	2.33	0.59
1:2:1528:U:OP1	7:S5:109:LYS:HG2	2.02	0.59
2:S0:57:LEU:HD11	2:S0:173:ILE:HG23	1.85	0.59
3:S1:27:LYS:NZ	3:S1:48:VAL:O	2.31	0.59
36:1:501:A:H2'	36:1:502:U:C6	2.37	0.59
36:1:952:A:N3	36:1:1114:U:O2'	2.29	0.59
36:1:1517:G:P	75:O9:41:ARG:HH22	2.25	0.59
36:1:1952:G:H3'	36:1:1953:G:H5''	1.84	0.59
39:L2:57:PRO:HB3	79:Q3:54:ILE:HD11	1.84	0.59
40:L3:3:HIS:O	40:L3:3:HIS:CG	2.55	0.59
41:L4:138:ARG:HE	41:L4:240:PRO:HD2	1.67	0.59
45:L8:116:VAL:HG23	45:L8:125:ALA:HB3	1.83	0.59
48:M1:34:SER:HA	48:M1:67:VAL:HG21	1.84	0.59
48:M1:139:THR:HG22	48:M1:147:THR:HA	1.84	0.59
57:N1:56:PHE:CE1	57:N1:78:LYS:HD3	2.37	0.59
2:s0:74:VAL:HG22	2:s0:96:THR:HG23	1.84	0.59
3:s1:154:SER:O	3:s1:154:SER:OG	2.17	0.59
8:s6:7:TYR:CE1	8:s6:125:THR:HA	2.36	0.59
13:c1:16:GLN:HE22	13:c1:33:ARG:HA	1.67	0.59
34:sR:12:THR:OG1	34:sR:14:GLU:OE2	2.18	0.59
36:5:1093:A:OP1	36:5:1093:A:H4'	2.02	0.59
36:5:2440:G:O2'	36:5:2441:A:OP1	2.20	0.59
62:n6:37:LYS:CD	62:n6:37:LYS:H	2.14	0.59
74:o8:44:LYS:HG2	74:o8:53:THR:HB	1.84	0.59
6:S4:206:ASP:HB2	6:S4:222:LEU:HD12	1.84	0.59
13:C1:67:ARG:NH2	13:C1:128:CYS:O	2.36	0.59
41:L4:219:LEU:O	41:L4:222:VAL:HG12	2.02	0.59
46:L9:67:ALA:HA	46:L9:70:THR:HG23	1.84	0.59
62:N6:37:LYS:H	62:N6:37:LYS:CD	2.14	0.59
67:O1:21:HIS:ND1	67:O1:21:HIS:O	2.36	0.59
71:O5:40:SER:OG	71:O5:42:PRO:HD3	2.02	0.59
80:6:568:G:N7	25:d3:69:ARG:NH2	2.51	0.59
80:6:814:A:H2'	55:m9:170:ARG:HH12	1.66	0.59
80:6:1654:G:OP1	77:q1:21:ARG:NH1	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:62:ARG:HH11	2:s0:62:ARG:HG3	1.67	0.59
4:s2:95:ARG:HD3	4:s2:97:ARG:HD2	1.83	0.59
36:5:92:G:H5''	36:5:94:G:N7	2.17	0.59
36:5:1564:U:H2'	36:5:1565:G:C8	2.38	0.59
36:5:2615:G:H2'	36:5:2616:C:C6	2.37	0.59
36:5:3334:U:H4'	36:5:3335:A:H5''	1.84	0.59
72:o6:54:GLU:HG2	72:o6:90:MET:HE1	1.84	0.59
86:A:3403:8AN:H8	86:A:3403:8AN:O5'	2.02	0.59
1:2:350:U:H5''	1:2:352:A:H5'	1.84	0.59
1:2:604:A:OP2	87:2:1992:OHX:N5	2.35	0.59
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.84	0.59
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.38	0.59
36:1:331:G:O6	87:1:3582:OHX:N5	2.35	0.59
36:1:422:A:C2	36:1:2363:A:H4'	2.38	0.59
36:1:2960:C:OP1	87:1:3540:OHX:N4	2.35	0.59
49:M3:186:ARG:O	49:M3:190:LYS:HB3	2.03	0.59
80:6:878:G:N7	87:6:1968:OHX:N1	2.51	0.59
80:6:1081:A:O2'	80:6:1082:C:H6	1.85	0.59
80:6:1760:G:O2'	80:6:1781:A:N1	2.30	0.59
33:e1:80:ARG:NH1	33:e1:80:ARG:HB2	2.18	0.59
36:5:720:A:C2	36:5:784:A:H5'	2.38	0.59
45:l8:133:LYS:HB2	45:l8:199:ALA:O	2.02	0.59
1:2:38:C:C2'	1:2:39:A:H5'	2.32	0.59
3:S1:180:THR:HG22	3:S1:181:LEU:HD13	1.84	0.59
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.83	0.59
9:S7:10:SER:HB2	9:S7:42:GLN:CD	2.28	0.59
13:C1:91:LEU:HB3	13:C1:100:TYR:HB3	1.83	0.59
36:1:124:U:H2'	36:1:125:C:H6	1.67	0.59
36:1:1355:A:H4'	36:1:1356:U:O5'	2.02	0.59
36:1:2284:C:H5''	36:1:2285:C:OP2	2.02	0.59
36:1:2675:C:H42	48:M1:22:SER:HB2	1.65	0.59
36:1:2957:G:OP2	87:1:3414:OHX:N1	2.35	0.59
36:1:2960:C:H2'	36:1:2961:G:H8	1.68	0.59
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.02	0.59
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.38	0.59
41:L4:143:GLU:O	87:L4:401:OHX:N2	2.36	0.59
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.84	0.59
65:N9:14:ARG:HH12	65:N9:18:ARG:NH1	2.00	0.59
67:O1:14:ILE:HG13	67:O1:19:ARG:NH1	2.18	0.59
67:O1:84:ASP:OD1	67:O1:84:ASP:N	2.35	0.59
80:6:329:G:H2'	80:6:330:G:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:567:A:C2	80:6:583:C:H1'	2.38	0.59
80:6:771:A:OP1	11:s9:9:SER:OG	2.18	0.59
80:6:1191:U:OP2	18:c6:143:ARG:NH2	2.29	0.59
80:6:1714:A:H2'	80:6:1715:G:O4'	2.02	0.59
80:6:1773:C:OP1	77:q1:3:ALA:HB3	2.02	0.59
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.17	0.59
36:5:92:G:H5''	36:5:94:G:C8	2.38	0.59
36:5:1096:U:H4'	36:5:1097:G:O5'	2.03	0.59
36:5:1724:U:H4'	36:5:1725:C:OP1	2.02	0.59
36:5:1875:G:H2'	36:5:1876:U:H5''	1.85	0.59
43:l6:44:ALA:O	43:l6:48:ARG:HB3	2.03	0.59
64:n8:73:LEU:HD12	64:n8:112:ILE:HD12	1.85	0.59
1:2:591:A:H2'	1:2:592:A:C8	2.36	0.59
1:2:858:G:H4'	9:S7:113:PRO:HG3	1.85	0.59
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.02	0.59
28:D6:12:LYS:HE2	28:D6:16:GLY:H	1.67	0.59
36:1:118:U:O2	36:1:121:A:H5'	2.02	0.59
36:1:954:U:O4	36:1:1115:G:H1'	2.02	0.59
36:1:1580:A:H1'	36:1:1581:C:H5	1.68	0.59
36:1:2278:C:C2'	36:1:2279:A:H5''	2.32	0.59
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.84	0.59
36:1:2510:U:O2'	36:1:2511:A:H5''	2.03	0.59
36:1:2659:G:O6	87:1:3416:OHX:N3	2.36	0.59
36:1:2808:A:N7	36:1:2955:U:H4'	2.18	0.59
36:1:3190:C:OP1	52:M6:168:TYR:OH	2.18	0.59
54:M8:155:MET:HG3	54:M8:156:GLY:N	2.18	0.59
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.03	0.59
65:N9:14:ARG:CZ	65:N9:18:ARG:HD3	2.33	0.59
78:Q2:61:LYS:HB3	78:Q2:61:LYS:HZ2	1.66	0.59
80:6:829:A:O2'	80:6:830:U:O5'	2.21	0.59
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.84	0.59
18:c6:97:VAL:CG2	18:c6:98:ASP:N	2.66	0.59
34:sR:76:ASP:OD1	34:sR:76:ASP:N	2.26	0.59
34:sR:267:PRO:HD2	34:sR:269:TYR:HE1	1.68	0.59
36:5:94:G:H2'	36:5:95:A:C8	2.38	0.59
36:5:2852:C:N3	47:m0:158:LYS:NZ	2.50	0.59
36:5:3015:G:OP1	87:5:3629:OHX:N6	2.36	0.59
56:n0:12:ARG:HB3	56:n0:24:LEU:HD23	1.84	0.59
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.01	0.59
1:2:343:C:H2'	1:2:344:A:H8	1.67	0.59
1:2:704:C:H3'	1:2:704:C:OP2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.85	0.59
36:1:307:A:O2'	36:1:2223:A:N3	2.35	0.59
36:1:364:G:OP1	41:L4:60:THR:HG22	2.03	0.59
40:L3:46:PHE:CZ	40:L3:84:VAL:HG13	2.38	0.59
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.37	0.59
80:6:121:U:O2'	6:s4:33:ALA:O	2.12	0.59
80:6:1699:G:H22	80:6:1701:A:H3'	1.68	0.59
3:s1:72:ASP:OD1	16:c4:114:ARG:NH1	2.36	0.59
6:s4:95:THR:HG23	6:s4:97:GLU:HG3	1.85	0.59
41:l4:181:VAL:HG11	41:l4:224:GLY:HA3	1.84	0.59
42:l5:21:ARG:O	42:l5:24:ARG:N	2.36	0.59
42:l5:200:PHE:O	42:l5:240:TYR:HD2	1.85	0.59
47:m0:208:ASN:O	47:m0:212:GLU:HB2	2.03	0.59
55:m9:105:LEU:HG	55:m9:138:LEU:HD12	1.84	0.59
72:o6:67:LYS:O	72:o6:70:ARG:N	2.32	0.59
1:2:1473:U:O2'	7:S5:103:ASN:ND2	2.34	0.58
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.03	0.58
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	1.85	0.58
36:1:643:U:O2'	36:1:1153:A:N1	2.31	0.58
36:1:1556:C:O2'	87:1:3449:OHX:N2	2.36	0.58
36:1:2102:U:H2'	36:1:2103:U:C6	2.38	0.58
37:3:37:G:O6	87:3:212:OHX:N1	2.36	0.58
40:L3:92:TYR:OH	40:L3:180:GLU:OE1	2.21	0.58
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.85	0.58
40:L3:286:GLY:HA3	40:L3:321:PHE:CE2	2.38	0.58
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.38	0.58
80:6:779:U:O2'	87:6:2056:OHX:N3	2.36	0.58
80:6:1244:A:H3'	80:6:1244:A:N3	2.18	0.58
2:s0:179:ARG:HD3	2:s0:183:ARG:CZ	2.32	0.58
9:s7:73:VAL:O	9:s7:75:THR:N	2.35	0.58
11:s9:60:LEU:HD21	11:s9:93:LEU:CB	2.33	0.58
18:c6:131:GLY:HA2	18:c6:138:PHE:CD1	2.38	0.58
33:e1:86:THR:C	33:e1:87:THR:HG1	2.09	0.58
36:5:651:G:O2'	36:5:1435:A:OP1	2.21	0.58
36:5:1841:A:C6	36:5:1848:G:C2	2.91	0.58
44:l7:88:ARG:HA	44:l7:134:VAL:HG12	1.85	0.58
46:l9:95:ALA:O	76:q0:77:ILE:HG12	2.03	0.58
56:n0:9:VAL:HG22	56:n0:61:ILE:HD13	1.83	0.58
68:o2:40:SER:O	68:o2:44:ARG:HG3	2.02	0.58
1:2:25:C:H4'	1:2:25:C:OP2	2.03	0.58
1:2:558:U:O2'	1:2:559:C:O5'	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1352:G:H2'	1:2:1353:U:O4'	2.03	0.58
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.84	0.58
24:D2:23:ARG:NH1	24:D2:66:ASN:HA	2.18	0.58
36:1:544:C:H1'	36:1:548:G:H22	1.68	0.58
36:1:1073:U:H2'	36:1:1074:U:C6	2.38	0.58
36:1:1668:G:H1	36:1:1781:C:H42	1.49	0.58
36:1:1794:G:O2'	36:1:1795:U:H5'	2.03	0.58
63:N7:9:LYS:HD2	63:N7:83:THR:O	2.03	0.58
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	2.36	0.58
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.02	0.58
80:6:1795:U:OP1	28:d6:86:VAL:HG12	2.02	0.58
13:c1:67:ARG:NH1	13:c1:128:CYS:HA	2.18	0.58
36:5:670:C:OP1	54:m8:147:ARG:NH2	2.37	0.58
36:5:1024:G:N2	36:5:1026:A:OP2	2.36	0.58
36:5:2697:A:H2'	36:5:2698:G:C8	2.38	0.58
36:5:2796:G:H5''	36:5:2798:C:O4'	2.04	0.58
41:l4:98:ARG:HG2	41:l4:99:MET:N	2.18	0.58
47:m0:174:THR:OG1	47:m0:175:ASN:O	2.20	0.58
53:m7:95:LEU:HD23	53:m7:148:LEU:HD13	1.85	0.58
1:2:720:G:H1'	1:2:721:U:H5''	1.86	0.58
1:2:1317:C:HO2'	1:2:1400:A:HO2'	1.51	0.58
1:2:1453:G:H2'	1:2:1454:G:H8	1.68	0.58
87:2:1976:OHX:N6	13:C1:18:HIS:O	2.35	0.58
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.68	0.58
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.49	0.58
36:1:2258:U:OP1	87:1:3470:OHX:N5	2.35	0.58
39:L2:79:ASN:ND2	39:L2:165:VAL:HG22	2.18	0.58
40:L3:230:THR:HA	40:L3:235:THR:HG22	1.85	0.58
44:L7:168:ILE:O	44:L7:172:ASN:ND2	2.36	0.58
45:L8:63:LYS:O	45:L8:67:ILE:HG13	2.03	0.58
49:M3:57:VAL:HG12	49:M3:69:VAL:HG22	1.84	0.58
52:M6:7:VAL:HB	52:M6:33:ILE:HD13	1.85	0.58
58:N2:89:LEU:O	58:N2:93:ILE:HG13	2.03	0.58
80:6:1171:A:H2'	80:6:1172:G:C8	2.38	0.58
80:6:1680:G:O6	87:6:2069:OHX:N4	2.37	0.58
4:s2:89:GLN:HG3	4:s2:93:GLY:O	2.03	0.58
11:s9:117:GLY:C	11:s9:119:ALA:H	2.10	0.58
18:c6:6:SER:HA	18:c6:23:LYS:HA	1.84	0.58
22:d0:70:THR:HG21	22:d0:74:GLU:O	2.03	0.58
23:d1:30:ALA:O	23:d1:60:ARG:HD3	2.03	0.58
36:5:239:G:O6	87:5:3635:OHX:N6	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:770:G:N7	87:5:3597:OHX:N6	2.51	0.58
36:5:1313:G:O6	87:5:3676:OHX:N6	2.36	0.58
36:5:1677:G:N7	58:n2:74:LYS:HE3	2.18	0.58
36:5:3062:G:C6	36:5:3063:C:C4	2.92	0.58
38:8:130:C:H2'	38:8:131:A:C8	2.38	0.58
47:m0:103:LEU:H	47:m0:103:LEU:HD12	1.68	0.58
78:q2:12:CYS:SG	78:q2:17:CYS:CB	2.91	0.58
1:2:751:G:H2'	1:2:752:A:C8	2.39	0.58
1:2:819:G:O2'	1:2:821:U:OP2	2.19	0.58
1:2:838:G:H2'	1:2:839:U:C6	2.39	0.58
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.85	0.58
5:S3:142:LEU:O	5:S3:144:ALA:N	2.33	0.58
6:S4:103:TYR:O	6:S4:182:TYR:OH	2.20	0.58
19:C7:44:LYS:O	19:C7:48:ASN:ND2	2.37	0.58
27:D5:59:TYR:HE2	27:D5:61:SER:HG	1.51	0.58
36:1:2403:G:N7	36:1:2870:C:H4'	2.18	0.58
38:4:124:G:H1	38:4:129:C:N4	1.99	0.58
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.03	0.58
41:L4:13:GLY:O	41:L4:14:GLU:HB2	2.03	0.58
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.86	0.58
47:M0:219:ALA:N	87:M0:303:OHX:N4	2.52	0.58
52:M6:8:VAL:HA	52:M6:34:VAL:HG13	1.85	0.58
69:O3:13:HIS:O	69:O3:95:GLY:N	2.32	0.58
80:6:1766:A:H5''	87:6:1980:OHX:N6	2.19	0.58
4:s2:116:LYS:HG2	4:s2:127:ALA:HB3	1.86	0.58
7:s5:41:LYS:HG2	7:s5:69:PHE:CZ	2.38	0.58
7:s5:128:ASN:O	7:s5:132:VAL:HG23	2.03	0.58
21:c9:93:HIS:NE2	21:c9:95:ASP:OD1	2.35	0.58
27:d5:85:LYS:HG3	27:d5:86:GLU:H	1.68	0.58
29:d7:2:VAL:O	29:d7:3:LEU:HB2	2.01	0.58
36:5:196:G:N1	36:5:199:A:OP2	2.36	0.58
36:5:297:G:OP2	36:5:297:G:N2	2.31	0.58
36:5:368:G:OP1	87:5:3425:OHX:N4	2.37	0.58
36:5:1370:G:OP1	64:n8:20:GLY:N	2.30	0.58
36:5:1686:U:OP1	58:n2:42:LYS:NZ	2.23	0.58
36:5:2103:U:H2'	36:5:2104:A:C8	2.38	0.58
36:5:2192:C:H2'	36:5:2193:U:O4'	2.03	0.58
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.37	0.58
1:2:356:G:OP2	87:2:1914:OHX:N6	2.36	0.58
1:2:1064:G:O2'	3:S1:204:ILE:O	2.21	0.58
3:S1:176:VAL:C	3:S1:178:GLY:H	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:105:LEU:HA	16:C4:108:SER:HB3	1.86	0.58
17:C5:24:LYS:O	17:C5:28:MET:HB2	2.04	0.58
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.68	0.58
36:1:1818:U:H3'	36:1:1819:U:H5''	1.85	0.58
87:1:3480:OHX:N5	38:4:112:U:O2	2.36	0.58
87:1:3659:OHX:N6	47:M0:112:GLN:O	2.37	0.58
44:L7:222:HIS:ND1	44:L7:224:ILE:HG13	2.19	0.58
47:M0:174:THR:HG23	47:M0:176:LEU:N	2.15	0.58
51:M5:199:LEU:HB3	51:M5:203:ARG:NE	2.18	0.58
58:N2:50:LEU:O	58:N2:52:ASN:N	2.37	0.58
80:6:1230:A:H2	80:6:1255:G:H21	1.50	0.58
80:6:1762:A:O2'	80:6:1783:C:H5'	2.02	0.58
2:s0:172:LEU:O	2:s0:176:LEU:HG	2.04	0.58
9:s7:30:SER:HB2	9:s7:34:LEU:HB2	1.85	0.58
9:s7:173:TYR:HE1	9:s7:179:LYS:HB2	1.68	0.58
20:c8:26:ILE:O	20:c8:31:ALA:HB2	2.03	0.58
21:c9:70:GLN:HE22	21:c9:119:LYS:HD3	1.68	0.58
26:d4:57:VAL:HB	26:d4:60:PHE:CE2	2.38	0.58
82:sM:39:PRO:HD3	48:m1:52:TYR:CE1	2.38	0.58
36:5:1329:U:O2'	36:5:1330:A:H5''	2.04	0.58
36:5:1810:A:H2'	36:5:1811:G:C8	2.39	0.58
36:5:2259:A:OP2	87:5:3449:OHX:N1	2.36	0.58
39:l2:48:ILE:HD12	79:q3:65:ALA:HB2	1.85	0.58
40:l3:171:LEU:O	87:l3:401:OHX:N3	2.36	0.58
42:l5:181:PRO:HD2	42:l5:195:LEU:HD13	1.86	0.58
42:l5:197:SER:OG	42:l5:202:GLY:HA3	2.02	0.58
47:m0:86:HIS:O	47:m0:138:VAL:HA	2.04	0.58
1:2:732:G:O2'	1:2:733:A:O4'	2.21	0.58
2:S0:9:LEU:HD23	2:S0:54:TRP:CD2	2.39	0.58
3:S1:34:ALA:HB2	3:S1:43:VAL:HG23	1.85	0.58
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.86	0.58
13:C1:58:CYS:HB3	13:C1:62:GLY:N	2.19	0.58
14:C2:76:GLU:OE2	14:C2:90:LYS:NZ	2.37	0.58
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.02	0.58
16:C4:112:ILE:HG21	28:D6:53:LEU:HD21	1.85	0.58
36:1:147:U:OP2	45:L8:136:LEU:N	2.33	0.58
43:L6:18:LEU:N	43:L6:18:LEU:HD22	2.18	0.58
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.39	0.58
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.04	0.58
46:L9:140:VAL:HG22	46:L9:143:GLU:HB2	1.85	0.58
78:Q2:71:ARG:HH21	78:Q2:80:ARG:HH11	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:53:G:H2'	80:6:54:C:C6	2.39	0.58
80:6:1592:A:H2'	80:6:1593:A:H8	1.68	0.58
3:s1:113:MET:HE3	3:s1:209:ASN:ND2	2.19	0.58
21:c9:73:VAL:HG21	21:c9:102:ARG:HG3	1.84	0.58
21:c9:114:VAL:HG12	21:c9:124:ILE:HD12	1.84	0.58
36:5:41:G:H4'	36:5:2410:U:H2'	1.85	0.58
36:5:385:A:H2'	36:5:386:A:C8	2.38	0.58
36:5:3152:U:O2	87:5:3766:OHX:N5	2.36	0.58
41:l4:10:SER:C	41:l4:12:THR:H	2.12	0.58
42:l5:85:ARG:NH1	42:l5:254:LYS:H	2.00	0.58
45:l8:82:LEU:HD13	45:l8:222:PHE:HE2	1.68	0.58
61:n5:103:TYR:O	61:n5:138:ARG:NH1	2.35	0.58
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.37	0.58
1:2:702:G:O2'	1:2:703:G:H8	1.86	0.58
1:2:882:U:H2'	1:2:883:C:C6	2.38	0.58
1:2:1183:A:C6	1:2:1184:A:N1	2.71	0.58
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.36	0.58
9:S7:51:VAL:HG12	9:S7:53:GLY:H	1.69	0.58
19:C7:15:ALA:O	19:C7:19:ARG:HG2	2.02	0.58
20:C8:125:ILE:HD11	35:SM:57:ASN:HB3	1.85	0.58
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.36	0.58
36:1:158:G:N2	36:1:264:G:H1'	2.18	0.58
36:1:1607:U:O2'	36:1:1608:C:H5'	2.03	0.58
36:1:3077:A:N6	36:1:3080:G:C5	2.72	0.58
36:1:3139:A:H5''	36:1:3139:A:H8	1.69	0.58
36:1:3233:C:H2'	36:1:3234:A:C8	2.38	0.58
38:4:18:U:OP1	87:4:209:OHX:N2	2.35	0.58
38:4:19:C:H2'	38:4:20:U:O4'	2.03	0.58
44:L7:96:PRO:HD2	44:L7:99:PRO:HG2	1.85	0.58
51:M5:56:LYS:NZ	51:M5:145:ASP:OD2	2.37	0.58
56:N0:5:LYS:HD2	56:N0:7:TYR:OH	2.02	0.58
67:O1:86:LYS:H	67:O1:86:LYS:HD2	1.68	0.58
80:6:331:A:H5'	10:s8:33:PRO:HA	1.86	0.58
3:s1:82:ARG:NH1	3:s1:191:GLU:OE2	2.36	0.58
36:5:73:C:O2'	49:m3:59:ARG:HG2	2.03	0.58
36:5:892:U:OP2	87:5:3417:OHX:N6	2.36	0.58
36:5:1072:G:H2'	36:5:1073:U:C6	2.38	0.58
36:5:2424:A:N1	39:l2:230:VAL:HG21	2.19	0.58
36:5:2601:A:H2'	36:5:2602:G:C8	2.38	0.58
41:l4:186:LYS:O	41:l4:200:THR:N	2.37	0.58
42:l5:187:THR:HG22	42:l5:189:GLU:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:n2:58:GLU:HB2	58:n2:63:VAL:HG13	1.86	0.58
60:n4:87:LEU:O	60:n4:91:LYS:HG3	2.04	0.58
71:o5:76:GLN:O	71:o5:81:ARG:NH1	2.36	0.58
78:q2:8:ARG:HB2	78:q2:8:ARG:HH11	1.69	0.58
78:q2:37:ALA:O	78:q2:39:GLY:N	2.37	0.58
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.33	0.58
1:2:972:G:O2'	36:1:847:A:N1	2.35	0.58
1:2:1085:G:N2	1:2:1088:A:OP2	2.36	0.58
2:S0:198:MET:SD	19:C7:88:VAL:HG13	2.43	0.58
4:S2:241:ASP:HA	4:S2:244:SER:HB2	1.85	0.58
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.85	0.58
36:1:75:G:H5''	49:M3:58:VAL:CG1	2.34	0.58
36:1:3227:A:H2'	36:1:3228:C:H5'	1.84	0.58
41:L4:140:HIS:N	41:L4:180:LYS:HE2	2.18	0.58
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.39	0.58
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.03	0.58
59:N3:23:MET:HB2	59:N3:99:ALA:HA	1.86	0.58
64:N8:88:ASP:HA	64:N8:91:LEU:HD23	1.86	0.58
80:6:86:A:OP2	87:6:2066:OHX:N1	2.36	0.58
80:6:323:A:OP2	10:s8:10:LYS:HG3	2.03	0.58
80:6:472:U:H5''	11:s9:11:THR:HG23	1.84	0.58
80:6:667:U:H4'	80:6:668:C:OP1	2.03	0.58
80:6:709:C:O2	80:6:730:G:N2	2.37	0.58
80:6:1331:A:OP1	19:c7:45:ARG:NH2	2.36	0.58
80:6:1478:G:OP1	21:c9:43:ASN:ND2	2.36	0.58
3:s1:47:LEU:O	16:c4:37:GLU:HG3	2.04	0.58
13:c1:5:LEU:C	13:c1:7:VAL:H	2.11	0.58
23:d1:3:ASN:ND2	23:d1:7:GLN:O	2.37	0.58
36:5:826:G:O6	87:5:3464:OHX:N2	2.37	0.58
41:l4:35:VAL:HG21	41:l4:244:LEU:HD21	1.84	0.58
41:l4:290:ILE:HG23	54:m8:35:PHE:CE2	2.39	0.58
1:2:83:G:OP2	87:2:1945:OHX:N5	2.36	0.58
1:2:494:U:O2'	1:2:495:C:O5'	2.15	0.58
1:2:717:C:H42	1:2:720:G:H22	1.52	0.58
1:2:839:U:H2'	1:2:840:U:H5'	1.85	0.58
1:2:901:G:H22	16:C4:54:GLU:CD	2.12	0.58
1:2:1769:U:OP2	87:2:2034:OHX:N1	2.36	0.58
8:S6:116:LYS:HD2	8:S6:125:THR:HG21	1.85	0.58
36:1:139:G:H2'	36:1:140:C:C6	2.39	0.58
36:1:279:U:H2'	36:1:280:U:C6	2.39	0.58
36:1:2651:G:C4	36:1:2796:G:C2	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.86	0.58
37:3:85:G:O6	87:3:202:OHX:N4	2.37	0.58
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.86	0.58
42:L5:55:PHE:CZ	42:L5:158:ARG:HG3	2.39	0.58
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.86	0.58
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	1.85	0.58
80:6:1340:U:O4	18:c6:9:THR:HA	2.04	0.58
2:s0:158:VAL:H	23:d1:69:LEU:HD12	1.69	0.58
26:d4:58:PHE:CE2	26:d4:72:PHE:HB3	2.39	0.58
27:d5:66:VAL:HA	27:d5:71:ILE:HG22	1.85	0.58
34:sR:5:GLU:HA	34:sR:317:THR:HA	1.86	0.58
36:5:249:U:O2'	36:5:250:U:H5''	2.04	0.58
36:5:252:U:H4'	36:5:253:A:C5'	2.33	0.58
36:5:1534:A:H62	36:5:1586:G:H2'	1.69	0.58
36:5:2573:G:OP1	63:n7:61:LYS:HE3	2.03	0.58
52:m6:110:PRO:O	52:m6:111:PRO:C	2.46	0.58
64:n8:44:ASN:ND2	64:n8:44:ASN:O	2.37	0.58
69:o3:39:GLN:CD	69:o3:39:GLN:H	2.11	0.58
76:q0:96:CYS:HB2	76:q0:110:CYS:HB2	1.86	0.58
1:2:122:U:O4	87:2:1927:OHX:N3	2.37	0.58
1:2:143:G:H2'	1:2:144:U:H5''	1.86	0.58
1:2:1291:G:N2	1:2:1325:A:N3	2.52	0.58
4:S2:89:GLN:OE1	4:S2:94:GLN:NE2	2.23	0.58
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.77	0.58
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.39	0.58
5:S3:127:MET:HE2	5:S3:155:GLY:HA3	1.86	0.58
26:D4:36:SER:O	26:D4:40:LEU:HG	2.04	0.58
36:1:341:G:O2'	38:4:22:U:O4	2.20	0.58
36:1:662:U:OP1	64:N8:8:THR:HG21	2.04	0.58
36:1:829:U:H3	36:1:895:A:N6	2.02	0.58
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.19	0.58
36:1:2213:A:N1	36:1:2429:G:H1'	2.18	0.58
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.85	0.58
57:N1:82:ASN:OD1	57:N1:82:ASN:N	2.37	0.58
71:O5:28:LEU:HD23	71:O5:47:VAL:HG13	1.86	0.58
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.86	0.58
80:6:1773:C:OP2	77:q1:2:ARG:NH1	2.34	0.58
2:s0:163:ASN:O	2:s0:165:ARG:N	2.35	0.58
5:s3:220:PRO:O	5:s3:221:SER:OG	2.16	0.58
11:s9:3:ARG:HH21	11:s9:3:ARG:HG2	1.69	0.58
20:c8:31:ALA:O	20:c8:34:THR:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:213:A:OP1	62:n6:2:ALA:N	2.37	0.58
36:5:1349:G:OP2	41:l4:287:THR:HG22	2.03	0.58
36:5:2277:C:H5'	36:5:2317:A:H4'	1.84	0.58
36:5:2730:G:H4'	54:m8:184:PHE:CD1	2.39	0.58
36:5:2968:G:N7	39:l2:215:ASN:HB2	2.19	0.58
44:l7:86:VAL:HG13	44:l7:136:TYR:HB3	1.84	0.58
62:n6:100:HIS:CD2	62:n6:101:PRO:HD2	2.39	0.58
84:p0:198:PRO:HG2	84:p0:201:ILE:H	1.69	0.58
1:2:861:U:O2'	24:D2:56:HIS:O	2.21	0.57
1:2:1682:U:O2'	1:2:1683:C:H5'	2.04	0.57
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.85	0.57
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.39	0.57
7:S5:20:PHE:HB3	7:S5:39:GLU:OE2	2.04	0.57
15:C3:103:GLU:HA	15:C3:106:ARG:NH2	2.19	0.57
24:D2:11:LEU:HD21	24:D2:37:PHE:CE1	2.39	0.57
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.86	0.57
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.86	0.57
36:1:726:G:H5''	36:1:726:G:H8	1.69	0.57
36:1:2683:U:H2'	36:1:2684:C:H6	1.68	0.57
41:L4:212:ASP:CG	41:L4:216:VAL:HB	2.28	0.57
49:M3:91:ARG:NH1	49:M3:97:VAL:HB	2.19	0.57
55:M9:104:ARG:HH22	55:M9:135:LYS:HE2	1.69	0.57
69:O3:59:VAL:O	69:O3:61:GLY:N	2.34	0.57
80:6:300:A:C2'	80:6:301:A:H5'	2.34	0.57
80:6:350:U:H5''	80:6:352:A:H5'	1.84	0.57
80:6:555:A:H3'	80:6:555:A:C8	2.39	0.57
80:6:1609:U:O2'	7:s5:105:GLY:O	2.13	0.57
4:s2:67:GLN:HA	4:s2:70:ASP:HB2	1.86	0.57
6:s4:31:PRO:HD2	6:s4:38:LEU:HD22	1.86	0.57
25:d3:97:ASP:O	25:d3:100:ASP:HB2	2.02	0.57
36:5:528:U:H2'	36:5:529:A:H8	1.69	0.57
36:5:1680:G:H2'	36:5:1681:U:H6	1.69	0.57
36:5:2555:G:H5'	36:5:2556:C:OP2	2.04	0.57
36:5:3287:U:N3	36:5:3288:G:N7	2.52	0.57
37:7:3:U:H2'	37:7:4:U:C6	2.38	0.57
40:l3:117:ARG:CZ	40:l3:175:LYS:HD2	2.34	0.57
40:l3:230:THR:HB	40:l3:247:ARG:NH1	2.19	0.57
42:l5:155:THR:HG22	42:l5:179:ARG:NH1	2.19	0.57
42:l5:258:LYS:HG2	42:l5:258:LYS:O	2.04	0.57
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.19	0.57
58:n2:36:TYR:O	58:n2:40:HIS:ND1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:102:GLU:H	63:n7:107:ARG:HH21	1.50	0.57
67:o1:70:ARG:HE	67:o1:102:LYS:NZ	2.02	0.57
68:o2:82:LEU:HD22	68:o2:117:ILE:HD12	1.85	0.57
70:o4:8:ARG:HH21	70:o4:31:ARG:HD2	1.68	0.57
1:2:7:G:N7	4:S2:205:ARG:NH1	2.49	0.57
1:2:515:A:OP2	87:2:1949:OHX:N3	2.37	0.57
1:2:630:A:H5''	1:2:631:G:OP2	2.03	0.57
1:2:843:U:H2'	1:2:844:A:C8	2.39	0.57
1:2:1119:G:O6	87:2:2037:OHX:N4	2.37	0.57
1:2:1498:G:H5''	21:C9:72:GLY:HA3	1.85	0.57
3:S1:23:PRO:O	3:S1:27:LYS:HG2	2.05	0.57
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.85	0.57
36:1:871:U:H2'	36:1:872:U:C6	2.39	0.57
36:1:1094:U:H4'	36:1:1096:U:OP1	2.03	0.57
40:L3:252:ILE:O	40:L3:264:VAL:HG21	2.04	0.57
40:L3:284:ARG:HB3	40:L3:323:MET:HB3	1.85	0.57
41:L4:200:THR:HG23	41:L4:201:GLN:N	2.19	0.57
48:M1:49:LYS:HD3	48:M1:62:ASN:HB3	1.86	0.57
51:M5:15:GLN:O	51:M5:20:ARG:HD3	2.04	0.57
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	1.86	0.57
80:6:477:A:OP1	32:e0:31:LYS:HG2	2.05	0.57
80:6:647:G:N2	80:6:687:G:H22	2.01	0.57
80:6:845:G:H2'	80:6:846:G:H8	1.68	0.57
3:s1:125:VAL:HG11	3:s1:173:THR:HG23	1.86	0.57
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.86	0.57
8:s6:98:ARG:HH11	8:s6:105:ASP:CG	2.12	0.57
11:s9:119:ALA:O	11:s9:124:HIS:ND1	2.37	0.57
36:5:210:U:C2	36:5:230:U:H4'	2.39	0.57
36:5:1369:A:O3'	64:n8:20:GLY:HA2	2.04	0.57
36:5:3111:U:OP1	46:l9:184:LYS:NZ	2.37	0.57
40:l3:17:LEU:HD11	40:l3:233:TRP:HH2	1.69	0.57
55:m9:109:TYR:HB3	55:m9:115:ILE:HG12	1.85	0.57
1:2:730:G:H21	1:2:731:C:H5''	1.69	0.57
1:2:1420:C:P	31:D9:54:LYS:HZ1	2.26	0.57
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.03	0.57
2:S0:134:LYS:NZ	2:S0:138:TYR:OH	2.37	0.57
11:S9:105:LEU:C	11:S9:107:ARG:H	2.11	0.57
21:C9:45:MET:HE3	21:C9:46:PRO:HD2	1.84	0.57
29:D7:20:LYS:HG2	29:D7:21:LEU:HD23	1.86	0.57
36:1:1448:U:C5	36:1:2355:G:C2	2.93	0.57
36:1:1745:C:H2'	36:1:1746:U:H6	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1789:G:O6	87:1:3726:OHX:N2	2.38	0.57
42:L5:148:ILE:HD11	42:L5:160:PHE:CZ	2.39	0.57
45:L8:116:VAL:HG13	45:L8:121:SER:O	2.04	0.57
46:L9:13:PRO:HG2	46:L9:16:VAL:HB	1.86	0.57
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.04	0.57
80:6:973:A:H2'	80:6:974:A:C8	2.40	0.57
80:6:1469:A:OP2	87:6:2035:OHX:N1	2.36	0.57
80:6:1529:C:H2'	80:6:1530:C:H6	1.69	0.57
2:s0:119:ARG:HB3	2:s0:119:ARG:NH1	2.18	0.57
9:s7:63:PRO:O	9:s7:64:VAL:HB	2.03	0.57
16:c4:84:ARG:HG3	16:c4:85:ALA:O	2.05	0.57
22:d0:68:ARG:NH2	22:d0:70:THR:OG1	2.35	0.57
36:5:1281:G:H5''	84:p0:55:LYS:HG3	1.86	0.57
36:5:1741:A:C6	36:5:1742:U:C2	2.92	0.57
36:5:1938:U:O4	87:5:3451:OHX:N1	2.37	0.57
36:5:2725:U:O4	87:5:3460:OHX:N1	2.38	0.57
39:l2:187:HIS:ND1	39:l2:190:ARG:NH1	2.53	0.57
84:p0:43:LYS:HA	84:p0:46:ARG:HG2	1.85	0.57
1:2:273:G:H1	1:2:283:U:H3	1.52	0.57
1:2:964:U:OP1	15:C3:128:TYR:OH	2.17	0.57
12:C0:12:HIS:CD2	12:C0:79:TYR:HD2	2.23	0.57
16:C4:25:ASP:OD1	16:C4:26:THR:N	2.35	0.57
31:D9:5:ASN:O	31:D9:7:TRP:N	2.33	0.57
36:1:378:A:N7	36:1:391:A:H2	2.03	0.57
36:1:520:U:O4	41:L4:349:THR:HG23	2.04	0.57
36:1:685:G:OP2	49:M3:35:ARG:NH1	2.37	0.57
36:1:2865:U:OP1	47:M0:115:MET:HB3	2.05	0.57
36:1:3091:A:C4	36:1:3094:A:C8	2.91	0.57
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	2.39	0.57
41:L4:25:VAL:HG22	41:L4:262:TRP:HB2	1.86	0.57
42:L5:40:HIS:HD2	42:L5:42:ALA:H	1.53	0.57
43:L6:54:TYR:CE2	43:L6:63:LEU:HD22	2.39	0.57
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.04	0.57
57:N1:78:LYS:HG3	57:N1:80:VAL:HG12	1.86	0.57
63:N7:51:LEU:HB2	63:N7:65:ARG:HD2	1.86	0.57
70:O4:46:ASP:HB2	70:O4:80:ARG:HD2	1.85	0.57
80:6:1565:C:OP1	20:c8:41:ARG:HD3	2.04	0.57
3:s1:70:LEU:HB2	3:s1:82:ARG:O	2.04	0.57
4:s2:233:GLN:HG3	4:s2:234:PRO:HD3	1.87	0.57
16:c4:99:GLN:NE2	28:d6:46:GLU:HB3	2.18	0.57
25:d3:76:LEU:O	25:d3:80:GLY:N	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:242:C:H2'	36:5:243:G:H8	1.69	0.57
36:5:290:G:H4'	51:m5:69:GLY:O	2.04	0.57
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.38	0.57
36:5:920:A:H5''	36:5:922:U:H5	1.70	0.57
36:5:1591:G:OP1	70:o4:37:LYS:NZ	2.37	0.57
36:5:1691:U:H2'	36:5:1692:U:C6	2.40	0.57
36:5:2662:G:H1	36:5:2708:C:N4	2.02	0.57
36:5:2965:U:O2	39:l2:221:LYS:NZ	2.38	0.57
36:5:3347:A:H61	36:5:3358:U:H3	1.50	0.57
39:l2:70:ARG:HD2	39:l2:72:ARG:HE	1.69	0.57
40:l3:293:ASN:HB2	40:l3:305:ILE:H	1.70	0.57
42:l5:25:GLU:HB2	42:l5:27:LYS:HG3	1.87	0.57
47:m0:100:ASN:OD1	87:m0:302:OHX:N2	2.37	0.57
49:m3:54:LEU:HD22	49:m3:55:ARG:H	1.69	0.57
53:m7:113:TYR:CE1	53:m7:115:SER:HB3	2.39	0.57
58:n2:43:VAL:C	58:n2:45:GLY:H	2.12	0.57
71:o5:101:THR:HG22	71:o5:104:GLN:HB2	1.86	0.57
75:o9:3:ALA:O	75:o9:5:LYS:HE3	2.05	0.57
85:p1:34:UNK:O	85:p1:36:UNK:N	2.38	0.57
5:S3:8:LYS:HE2	22:D0:61:LYS:HD3	1.86	0.57
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.04	0.57
11:S9:38:ASN:HB3	11:S9:40:LYS:N	2.19	0.57
36:1:353:G:N7	73:O7:55:ARG:HD3	2.19	0.57
36:1:863:C:OP1	87:1:3419:OHX:N5	2.37	0.57
36:1:1482:A:N7	36:1:1866:C:O2'	2.34	0.57
36:1:1577:G:H2'	36:1:1578:C:O4'	2.03	0.57
36:1:2534:G:N7	87:1:3747:OHX:N2	2.52	0.57
36:1:2801:A:O2'	36:1:2802:A:H2'	2.05	0.57
36:1:2808:A:H4'	36:1:2809:C:O5'	2.04	0.57
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.33	0.57
41:L4:3:ARG:HH11	41:L4:22:LEU:HB3	1.70	0.57
51:M5:68:ARG:NE	51:M5:124:ASP:O	2.38	0.57
60:N4:6:ASP:HB3	60:N4:10:GLY:H	1.69	0.57
62:N6:90:VAL:HG23	62:N6:91:ASN:H	1.70	0.57
69:O3:8:TYR:HB2	69:O3:100:ILE:O	2.04	0.57
80:6:381:C:H5''	6:s4:10:LYS:HD3	1.86	0.57
2:s0:184:LEU:HD12	23:d1:45:ALA:HB2	1.86	0.57
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.86	0.57
6:s4:121:TYR:HA	6:s4:163:ASP:O	2.05	0.57
6:s4:230:GLU:HB2	6:s4:233:LYS:HZ2	1.69	0.57
7:s5:96:SER:O	7:s5:180:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:63:PRO:C	9:s7:65:PRO:HD2	2.29	0.57
9:s7:164:TYR:CE1	9:s7:165:LYS:HG3	2.40	0.57
81:c0:54:TYR:HD2	81:c0:72:GLY:HA2	1.70	0.57
13:c1:57:LYS:HD3	13:c1:131:ILE:HG23	1.85	0.57
15:c3:107:LYS:O	15:c3:109:LYS:N	2.37	0.57
16:c4:80:HIS:ND1	16:c4:113:GLY:O	2.38	0.57
36:5:1638:A:N1	36:5:1736:G:O2'	2.31	0.57
36:5:1718:G:H4'	55:m9:117:LYS:HD2	1.86	0.57
40:l3:68:HIS:NE2	40:l3:69:LYS:HG3	2.20	0.57
52:m6:143:THR:OG1	52:m6:150:GLU:HB2	2.05	0.57
57:n1:79:MET:HA	57:n1:84:TYR:HA	1.86	0.57
63:n7:135:ARG:HB3	63:n7:135:ARG:NH2	2.18	0.57
74:o8:46:ARG:NH1	74:o8:47:GLY:O	2.37	0.57
1:2:633:U:O2'	1:2:1102:G:H4'	2.04	0.57
1:2:1280:C:H2'	1:2:1281:G:H8	1.66	0.57
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.29	0.57
2:S0:131:GLN:O	2:S0:135:GLU:HB2	2.05	0.57
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.87	0.57
15:C3:26:PHE:HE2	15:C3:66:ILE:HD13	1.69	0.57
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.85	0.57
36:1:1808:G:O6	87:1:3519:OHX:N3	2.38	0.57
36:1:2680:A:C2	48:M1:57:PHE:HB3	2.39	0.57
39:L2:83:HIS:HB3	79:Q3:64:VAL:HG22	1.86	0.57
39:L2:230:VAL:O	39:L2:233:GLN:HB2	2.05	0.57
43:L6:12:SER:OG	43:L6:14:ASP:HB2	2.04	0.57
49:M3:17:HIS:O	49:M3:20:GLU:HB2	2.05	0.57
67:O1:29:ALA:HA	67:O1:67:VAL:HG21	1.85	0.57
80:6:4:C:O2'	11:s9:17:ARG:NH1	2.34	0.57
80:6:619:A:N3	80:6:1141:G:H1'	2.19	0.57
80:6:793:A:C3'	80:6:794:U:H5'	2.32	0.57
15:c3:98:VAL:O	15:c3:100:LYS:N	2.37	0.57
36:5:539:C:H42	36:5:552:G:H1	1.53	0.57
36:5:986:U:OP2	87:5:3658:OHX:N2	2.38	0.57
36:5:1611:G:C4	36:5:1612:A:C8	2.93	0.57
36:5:2924:U:O4	87:5:3561:OHX:N2	2.38	0.57
40:l3:347:SER:HB3	40:l3:350:ALA:N	2.19	0.57
41:l4:118:LYS:O	41:l4:122:THR:HG23	2.04	0.57
51:m5:182:ASN:O	51:m5:183:THR:HG22	2.04	0.57
56:n0:166:LYS:HD2	56:n0:167:ARG:H	1.70	0.57
64:n8:7:LYS:C	64:n8:9:ARG:H	2.13	0.57
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:501:U:O2'	1:2:502:U:H6	1.87	0.57
1:2:1349:G:H1	1:2:1376:C:H42	1.53	0.57
2:S0:35:PRO:O	2:S0:37:VAL:N	2.35	0.57
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.87	0.57
12:C0:31:LYS:HA	12:C0:37:THR:O	2.05	0.57
36:1:612:U:H2'	36:1:613:G:H8	1.69	0.57
36:1:1565:G:N2	36:1:1574:C:C2	2.72	0.57
36:1:2505:U:H2'	36:1:2506:U:H6	1.70	0.57
36:1:2712:U:HO2'	36:1:2743:A:HO2'	1.52	0.57
40:L3:280:HIS:HB3	40:L3:324:VAL:HG13	1.87	0.57
45:L8:155:ASN:OD1	45:L8:181:LYS:HA	2.04	0.57
51:M5:143:ARG:NH2	71:O5:92:LEU:HD23	2.15	0.57
56:N0:109:ASP:OD1	56:N0:113:ARG:NH1	2.37	0.57
57:N1:82:ASN:HA	65:N9:21:ILE:HD13	1.85	0.57
68:O2:24:ARG:NH1	68:O2:25:TYR:OH	2.36	0.57
80:6:193:U:C2	80:6:195:G:H1'	2.40	0.57
80:6:929:A:O4'	16:c4:124:ASP:HB2	2.04	0.57
80:6:1529:C:OP1	7:s5:112:ARG:HD3	2.05	0.57
2:s0:179:ARG:HD3	2:s0:183:ARG:NE	2.19	0.57
9:s7:50:ASP:N	9:s7:50:ASP:OD1	2.38	0.57
13:c1:21:ASN:HD22	13:c1:31:THR:HA	1.67	0.57
15:c3:25:TRP:HA	15:c3:27:LYS:HE2	1.87	0.57
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.52	0.57
23:d1:5:LYS:NZ	23:d1:5:LYS:HB3	2.19	0.57
25:d3:73:ARG:HE	25:d3:84:THR:HG22	1.68	0.57
27:d5:46:LYS:O	27:d5:50:ILE:HG13	2.05	0.57
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.32	0.57
36:5:3366:G:H2'	36:5:3367:C:C6	2.39	0.57
37:7:40:C:H5''	37:7:41:G:OP2	2.05	0.57
41:l4:323:VAL:HG13	41:l4:326:ARG:NH2	2.20	0.57
48:m1:101:ASN:HB3	48:m1:130:VAL:HA	1.86	0.57
55:m9:35:ALA:O	55:m9:36:ASN:ND2	2.27	0.57
55:m9:167:ARG:HB3	55:m9:167:ARG:NH1	2.18	0.57
57:n1:7:TYR:OH	57:n1:54:HIS:HB2	2.05	0.57
74:o8:18:ALA:C	74:o8:20:VAL:H	2.11	0.57
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.04	0.57
5:S3:64:ARG:O	5:S3:66:ILE:N	2.38	0.57
17:C5:65:LEU:C	17:C5:67:ALA:H	2.12	0.57
33:E1:102:VAL:O	33:E1:104:SER:N	2.33	0.57
36:1:210:U:C2	36:1:230:U:H4'	2.40	0.57
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.40	0.57
60:N4:56:ARG:O	60:N4:59:HIS:N	2.36	0.57
63:N7:24:VAL:HG11	63:N7:87:LEU:HD23	1.87	0.57
68:O2:26:HIS:O	68:O2:28:VAL:N	2.38	0.57
80:6:914:G:H8	80:6:914:G:OP2	1.87	0.57
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.87	0.57
33:e1:78:LYS:O	33:e1:80:ARG:N	2.33	0.57
36:5:750:G:O2'	36:5:751:A:H5'	2.04	0.57
36:5:1148:G:N7	87:5:3741:OHX:N5	2.53	0.57
36:5:1308:A:OP2	36:5:1308:A:H8	1.87	0.57
36:5:1315:U:OP1	52:m6:18:ARG:NH1	2.37	0.57
36:5:1912:U:N3	36:5:2122:G:OP2	2.36	0.57
36:5:2103:U:H2'	36:5:2104:A:H8	1.69	0.57
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	1.87	0.57
44:l7:40:LYS:HE2	44:l7:170:GLU:OE1	2.05	0.57
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.05	0.57
47:m0:177:ASP:N	47:m0:177:ASP:OD2	2.38	0.57
48:m1:107:ASP:O	48:m1:108:GLU:HG2	2.04	0.57
54:m8:91:ALA:HB3	64:n8:77:LYS:HE3	1.86	0.57
66:o0:42:ILE:HA	66:o0:90:VAL:O	2.05	0.57
1:2:17:C:O2'	1:2:1137:A:N6	2.37	0.57
1:2:66:U:H1'	8:S6:160:ARG:HH21	1.70	0.57
1:2:297:U:H5''	6:S4:37:LYS:HD3	1.86	0.57
1:2:909:U:H2'	1:2:910:C:H6	1.70	0.57
24:D2:42:GLN:O	24:D2:45:GLY:N	2.32	0.57
36:1:1386:A:C8	41:L4:183:LYS:HB3	2.40	0.57
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	1.87	0.57
74:O8:36:LYS:HG2	74:O8:37:PRO:HD2	1.87	0.57
80:6:604:A:OP2	87:6:2006:OHX:N4	2.38	0.57
80:6:1178:G:H4'	82:sM:83:LYS:HE2	1.86	0.57
9:s7:15:GLU:O	9:s7:19:GLN:HG3	2.04	0.57
16:c4:17:ALA:N	16:c4:80:HIS:O	2.33	0.57
20:c8:108:LYS:HA	20:c8:111:ASP:HB2	1.86	0.57
34:sR:21:THR:HG23	34:sR:37:SER:HA	1.86	0.57
36:5:83:U:H2'	36:5:84:U:O4'	2.04	0.57
36:5:562:C:H2'	36:5:563:U:H6	1.69	0.57
36:5:1162:U:OP1	68:o2:54:LYS:NZ	2.37	0.57
36:5:2658:G:C6	36:5:2659:G:N7	2.73	0.57
36:5:3245:A:H2	36:5:3246:G:N1	2.03	0.57
45:l8:244:ALA:O	45:l8:248:LYS:N	2.34	0.57
72:o6:62:ARG:HH12	72:o6:94:ILE:HD11	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:120:SER:HA	34:SR:136:ILE:HD12	1.87	0.57
36:1:223:U:O4	87:1:3798:OHX:N5	2.38	0.57
36:1:3050:U:O2'	60:N4:16:GLY:O	2.23	0.57
41:L4:285:ASP:OD2	41:L4:288:ARG:HB2	2.05	0.57
47:M0:34:TYR:HB3	47:M0:89:VAL:HB	1.86	0.57
55:M9:105:LEU:HD12	55:M9:135:LYS:HD2	1.86	0.57
68:O2:41:VAL:HG12	68:O2:46:PHE:CD2	2.40	0.57
69:O3:8:TYR:HB3	69:O3:101:PHE:CD1	2.40	0.57
71:O5:6:ALA:HB1	71:O5:10:ARG:NH2	2.19	0.57
80:6:138:A:H2'	80:6:139:C:H5'	1.87	0.57
80:6:330:G:H2'	80:6:331:A:H8	1.70	0.57
13:c1:92:HIS:O	13:c1:100:TYR:HA	2.05	0.57
21:c9:53:TRP:HH2	21:c9:100:ILE:HD12	1.69	0.57
26:d4:37:LYS:O	26:d4:41:ARG:N	2.36	0.57
36:5:1815:U:O2'	36:5:1816:A:OP2	2.22	0.57
36:5:2440:G:H5''	36:5:2440:G:H8	1.69	0.57
44:l7:22:THR:HA	44:l7:25:GLN:OE1	2.04	0.57
53:m7:78:VAL:HG13	53:m7:79:THR:N	2.20	0.57
56:n0:25:PHE:CE1	57:n1:149:GLN:HB3	2.40	0.57
72:o6:56:ARG:HH22	72:o6:76:ARG:HH11	1.52	0.57
1:2:1203:A:OP2	87:2:1993:OHX:N5	2.38	0.56
1:2:1410:A:H2'	1:2:1411:A:O4'	2.05	0.56
1:2:1515:A:H1'	1:2:1518:C:N4	2.20	0.56
8:S6:31:ARG:HD2	8:S6:34:GLN:HE21	1.70	0.56
22:D0:67:THR:HG22	22:D0:68:ARG:O	2.05	0.56
34:SR:171:SER:OG	34:SR:179:LYS:HB2	2.05	0.56
36:1:1010:G:OP1	47:M0:39:LYS:NZ	2.38	0.56
36:1:1108:U:H2'	36:1:1109:U:C6	2.40	0.56
36:1:1501:U:O5'	36:1:1501:U:H6	1.88	0.56
36:1:1921:A:H61	36:1:1929:G:H2'	1.70	0.56
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.21	0.56
43:L6:146:ILE:HG22	43:L6:150:LYS:HE3	1.87	0.56
44:L7:159:GLN:O	44:L7:160:ARG:C	2.48	0.56
45:L8:246:MET:HA	45:L8:249:ARG:HB3	1.87	0.56
51:M5:62:TYR:O	51:M5:131:GLU:HA	2.04	0.56
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.05	0.56
54:M8:44:PHE:HD1	54:M8:139:ILE:HD11	1.69	0.56
61:N5:62:VAL:HG11	61:N5:94:GLN:O	2.05	0.56
69:O3:103:TYR:HA	69:O3:104:PRO:C	2.29	0.56
80:6:139:C:H4'	80:6:140:A:O5'	2.05	0.56
80:6:511:A:P	11:s9:176:ASN:HD22	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1081:A:N3	80:6:1082:C:H5	2.02	0.56
80:6:1316:G:OP1	19:c7:7:LYS:N	2.35	0.56
80:6:1439:C:H2'	80:6:1440:C:C6	2.39	0.56
2:s0:13:ASP:O	2:s0:16:LEU:N	2.38	0.56
5:s3:209:ILE:HD12	5:s3:210:GLU:H	1.70	0.56
34:sR:249:ARG:NH2	34:sR:315:VAL:HG11	2.20	0.56
82:sM:39:PRO:HD3	48:m1:52:TYR:CZ	2.40	0.56
36:5:334:A:H2'	36:5:335:G:H8	1.70	0.56
36:5:1613:A:H2'	36:5:1614:C:C6	2.40	0.56
38:8:67:U:H5''	73:o7:85:LYS:HB2	1.87	0.56
41:l4:30:ILE:HA	41:l4:124:SER:HB3	1.86	0.56
54:m8:54:LEU:HD13	54:m8:58:ASN:HB3	1.87	0.56
56:n0:46:GLN:HG2	56:n0:51:VAL:O	2.05	0.56
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.05	0.56
1:2:97:C:H2'	1:2:98:U:C6	2.40	0.56
1:2:978:A:H2'	1:2:979:A:O4'	2.05	0.56
1:2:1165:G:O6	1:2:1166:A:N6	2.38	0.56
1:2:1266:U:H2'	1:2:1267:G:C8	2.40	0.56
1:2:1801:U:H2'	1:2:1802:A:C8	2.40	0.56
3:S1:36:SER:O	3:S1:38:PHE:N	2.37	0.56
6:S4:194:THR:O	6:S4:195:ILE:HB	2.04	0.56
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.20	0.56
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.37	0.56
21:C9:125:SER:OG	21:C9:128:GLY:N	2.36	0.56
36:1:355:A:H2'	36:1:356:C:O4'	2.05	0.56
36:1:810:A:H2'	36:1:811:U:H6	1.69	0.56
36:1:924:G:N7	36:1:2809:C:H1'	2.20	0.56
36:1:1238:C:N4	36:1:1245:A:OP2	2.35	0.56
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.33	0.56
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.87	0.56
36:1:3215:A:O5'	50:M4:121:MET:HE1	2.05	0.56
40:L3:122:TRP:O	40:L3:125:SER:N	2.35	0.56
44:L7:100:ARG:HD3	54:M8:4:ASP:OD2	2.05	0.56
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.71	0.56
80:6:780:A:N3	26:d4:10:ARG:HD3	2.20	0.56
80:6:1087:A:H5'	80:6:1298:U:O4	2.05	0.56
80:6:1646:C:H2'	80:6:1647:U:C6	2.40	0.56
4:s2:56:ILE:HG12	4:s2:61:LEU:HD12	1.86	0.56
28:d6:30:ILE:HD11	28:d6:34:LYS:HD3	1.88	0.56
36:5:408:A:H61	38:8:15:G:H1'	1.70	0.56
36:5:1064:A:H4'	36:5:1065:A:O5'	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2821:C:N3	87:5:3705:OHX:N3	2.54	0.56
36:5:3085:G:OP1	60:n4:34:SER:OG	2.20	0.56
38:8:70:G:N7	87:8:212:OHX:N5	2.52	0.56
38:8:150:G:N7	87:8:206:OHX:N5	2.54	0.56
40:l3:53:MET:HG2	40:l3:77:THR:HG22	1.86	0.56
46:l9:94:TYR:HB3	46:l9:99:ILE:HG13	1.86	0.56
66:o0:99:ASP:OD2	66:o0:99:ASP:N	2.28	0.56
84:p0:67:LEU:HD21	84:p0:74:GLU:HB2	1.87	0.56
1:2:782:U:H4'	1:2:783:G:OP2	2.04	0.56
1:2:1182:U:O2	1:2:1184:A:H8	1.88	0.56
1:2:1239:U:O4	87:2:1925:OHX:N2	2.38	0.56
11:S9:105:LEU:O	11:S9:108:ARG:HG3	2.04	0.56
13:C1:94:ILE:HD13	25:D3:16:ARG:HD2	1.87	0.56
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.05	0.56
24:D2:47:ILE:HG22	24:D2:65:LEU:HB3	1.87	0.56
29:D7:14:SER:HA	29:D7:17:ARG:HG2	1.88	0.56
36:1:864:G:O6	36:1:893:C:H3'	2.05	0.56
36:1:1431:G:OP2	64:N8:12:ARG:NH1	2.39	0.56
36:1:1472:U:H2'	36:1:1473:G:H8	1.70	0.56
36:1:2229:A:H2'	36:1:2230:C:H6	1.69	0.56
36:1:2614:G:O5'	87:1:3738:OHX:N6	2.39	0.56
36:1:2616:C:H2'	36:1:2617:U:H5'	1.87	0.56
36:1:2775:U:H2'	36:1:2776:C:H6	1.70	0.56
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.05	0.56
36:1:2895:G:H5''	76:Q0:102:ARG:HH21	1.68	0.56
36:1:3084:C:H2'	36:1:3085:G:O4'	2.05	0.56
87:1:3496:OHX:N4	44:L7:217:PRO:HA	2.20	0.56
37:3:50:U:C2'	37:3:51:A:H5'	2.35	0.56
45:L8:45:ASN:OD1	45:L8:47:SER:HB3	2.06	0.56
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.87	0.56
53:M7:108:ASP:OD1	53:M7:111:LYS:HE2	2.06	0.56
59:N3:68:GLU:H	59:N3:68:GLU:CD	2.10	0.56
62:N6:87:LYS:HB2	62:N6:97:ILE:HD11	1.87	0.56
71:O5:21:LEU:HD22	71:O5:25:LYS:HE3	1.87	0.56
72:O6:53:TYR:HB2	72:O6:76:ARG:HD2	1.87	0.56
80:6:958:U:OP2	29:d7:20:LYS:NZ	2.28	0.56
80:6:1567:U:H2'	80:6:1568:C:H5'	1.87	0.56
6:s4:137:PRO:HG2	6:s4:150:PRO:HD2	1.87	0.56
8:s6:4:ASN:HB3	8:s6:110:ALA:HB2	1.87	0.56
15:c3:130:ARG:HD3	15:c3:137:PRO:O	2.05	0.56
17:c5:126:VAL:HG22	17:c5:127:ARG:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d0:50:LEU:HD22	22:d0:95:ALA:HB2	1.87	0.56
29:d7:19:HIS:HE1	29:d7:21:LEU:HG	1.70	0.56
34:sR:305:TYR:CE2	34:sR:311:ARG:HD2	2.40	0.56
36:5:237:G:C2	36:5:238:A:C8	2.93	0.56
36:5:781:G:N7	87:5:3494:OHX:N4	2.53	0.56
36:5:1597:C:H2'	36:5:1598:G:H8	1.71	0.56
36:5:2425:G:H2'	36:5:2426:U:O4'	2.05	0.56
36:5:2615:G:H2'	36:5:2616:C:H6	1.69	0.56
36:5:2663:G:N2	36:5:2708:C:N3	2.53	0.56
36:5:2988:C:O2	40:l3:266:ARG:NH1	2.38	0.56
36:5:3155:U:H4'	36:5:3156:U:OP2	2.04	0.56
36:5:3159:C:H4'	36:5:3395:G:C5	2.40	0.56
40:l3:85:VAL:HG22	40:l3:87:VAL:HG13	1.86	0.56
41:l4:120:TYR:HD1	41:l4:120:TYR:O	1.89	0.56
42:l5:206:GLN:O	42:l5:210:GLU:HG3	2.05	0.56
49:m3:56:PRO:HG3	49:m3:74:GLY:O	2.05	0.56
49:m3:122:LYS:HG3	71:o5:119:LYS:O	2.04	0.56
54:m8:36:LEU:O	54:m8:40:THR:OG1	2.21	0.56
57:n1:17:ARG:HE	57:n1:22:HIS:HA	1.70	0.56
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.05	0.56
58:n2:12:ALA:HB2	58:n2:68:THR:HG23	1.88	0.56
64:n8:120:ASN:HA	64:n8:141:ALA:HB1	1.86	0.56
69:o3:90:PRO:O	69:o3:92:LYS:N	2.38	0.56
78:q2:17:CYS:SG	78:q2:77:CYS:HB3	2.46	0.56
1:2:1579:U:O2'	18:C6:139:GLN:HA	2.04	0.56
3:S1:70:LEU:HD21	3:S1:79:HIS:CD2	2.41	0.56
6:S4:71:LYS:HG3	6:S4:91:THR:HB	1.86	0.56
33:E1:108:VAL:HG22	33:E1:114:VAL:HG22	1.86	0.56
36:1:72:C:H5'	49:M3:63:VAL:HG22	1.86	0.56
36:1:601:U:H2'	36:1:602:A:O4'	2.05	0.56
36:1:846:A:H2'	36:1:847:A:O4'	2.06	0.56
36:1:979:U:H1'	36:1:980:A:N7	2.20	0.56
36:1:1222:G:O2'	36:1:1285:G:N1	2.13	0.56
87:1:3420:OHX:N4	38:4:17:A:OP1	2.38	0.56
40:L3:294:GLY:H	40:L3:304:THR:HA	1.69	0.56
46:L9:148:GLY:H	46:L9:187:ILE:HD11	1.71	0.56
57:N1:9:SER:OG	57:N1:10:ARG:HG3	2.05	0.56
61:N5:63:ILE:HA	61:N5:86:VAL:HG23	1.86	0.56
70:O4:44:CYS:HB2	70:O4:81:CYS:HB3	1.87	0.56
80:6:1054:U:H2'	80:6:1055:U:H6	1.69	0.56
2:s0:56:LYS:HZ2	2:s0:158:VAL:HA	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:102:VAL:O	4:s2:114:GLY:N	2.25	0.56
4:s2:203:LYS:O	4:s2:206:THR:HG22	2.04	0.56
6:s4:204:GLY:HA2	87:s4:301:OHX:N6	2.20	0.56
11:s9:33:GLU:OE1	32:e0:40:TYR:OH	2.14	0.56
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.87	0.56
20:c8:88:ARG:NH2	20:c8:91:ASP:OD2	2.38	0.56
21:c9:6:VAL:HB	21:c9:14:PHE:CE1	2.39	0.56
36:5:29:C:H1'	51:m5:162:ARG:HB3	1.87	0.56
36:5:345:G:H1'	38:8:24:G:N2	2.20	0.56
36:5:547:G:C5	36:5:548:G:H1'	2.41	0.56
36:5:622:A:H2'	36:5:623:U:O4'	2.06	0.56
36:5:689:U:N3	41:l4:227:THR:O	2.39	0.56
36:5:2264:U:OP2	87:5:3457:OHX:N4	2.39	0.56
40:l3:331:ASN:OD1	40:l3:331:ASN:N	2.38	0.56
1:2:43:A:H1'	1:2:378:A:N3	2.21	0.56
1:2:226:A:H2'	1:2:227:U:H5'	1.86	0.56
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.41	0.56
8:S6:176:GLN:C	8:S6:178:LEU:H	2.13	0.56
10:S8:122:GLY:O	87:S8:301:OHX:N6	2.39	0.56
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.88	0.56
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.87	0.56
28:D6:20:PRO:HA	28:D6:31:PRO:HA	1.87	0.56
36:1:1834:U:H3'	36:1:1835:A:H5'	1.88	0.56
36:1:2533:G:O6	87:1:3747:OHX:N4	2.37	0.56
36:1:2884:C:H2'	36:1:2885:C:H6	1.71	0.56
36:1:3224:G:O6	87:1:3430:OHX:N4	2.38	0.56
36:1:3298:C:OP1	87:1:3433:OHX:N3	2.38	0.56
36:1:3316:A:N6	40:L3:124:LYS:HG2	2.20	0.56
40:L3:150:ARG:HH11	40:L3:150:ARG:HG2	1.71	0.56
44:L7:26:VAL:HG13	44:L7:27:ALA:H	1.70	0.56
48:M1:132:ASN:HA	48:M1:154:THR:HG21	1.86	0.56
49:M3:140:SER:OG	49:M3:141:ALA:N	2.37	0.56
52:M6:54:TYR:HE2	52:M6:58:LEU:HD22	1.70	0.56
67:O1:14:ILE:HG12	67:O1:16:LEU:HD13	1.86	0.56
68:O2:72:LYS:HD3	68:O2:92:TYR:CE2	2.41	0.56
80:6:767:U:C5	26:d4:64:PHE:CE1	2.93	0.56
80:6:901:G:N2	16:c4:54:GLU:OE1	2.38	0.56
80:6:950:C:H2'	80:6:951:A:C8	2.41	0.56
9:s7:168:SER:O	9:s7:172:VAL:HG23	2.04	0.56
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.05	0.56
36:5:3:U:H3	38:8:156:U:H3	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:815:G:OP2	73:o7:31:LYS:NZ	2.37	0.56
36:5:1932:A:H5'	36:5:1933:A:OP2	2.06	0.56
37:7:106:U:H2'	37:7:107:C:C6	2.40	0.56
40:l3:68:HIS:CD2	40:l3:69:LYS:HG3	2.41	0.56
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.04	0.56
46:l9:175:PHE:HD2	46:l9:175:PHE:H	1.52	0.56
59:n3:5:GLY:O	59:n3:7:GLN:NE2	2.35	0.56
68:o2:41:VAL:HG12	68:o2:46:PHE:CD2	2.40	0.56
72:o6:33:ALA:O	72:o6:34:SER:HB3	2.04	0.56
1:2:1002:G:H2'	1:2:1003:A:H5'	1.87	0.56
1:2:1191:U:H5'	18:C6:143:ARG:CZ	2.35	0.56
1:2:1199:G:H8	22:D0:68:ARG:HG3	1.69	0.56
1:2:1300:A:OP1	4:S2:99:LYS:NZ	2.38	0.56
1:2:1334:U:H2'	1:2:1335:U:C6	2.41	0.56
1:2:1354:G:C2	1:2:1372:U:C4	2.93	0.56
8:S6:148:SER:O	8:S6:150:GLU:N	2.35	0.56
17:C5:125:PRO:HG3	20:C8:129:TRP:CH2	2.41	0.56
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.41	0.56
36:1:1234:G:O6	87:1:3647:OHX:N3	2.39	0.56
36:1:1948:G:C2	36:1:2099:A:C2	2.94	0.56
36:1:2107:A:H2	36:1:3344:A:C8	2.23	0.56
41:L4:269:SER:C	41:L4:271:LYS:H	2.14	0.56
45:L8:78:PHE:C	45:L8:80:TYR:N	2.64	0.56
79:Q3:59:CYS:O	79:Q3:60:CYS:HB3	2.06	0.56
80:6:1280:C:O2'	22:d0:70:THR:HG23	2.06	0.56
80:6:1688:U:H2'	80:6:1689:A:C8	2.40	0.56
6:s4:159:THR:OG1	6:s4:160:VAL:N	2.37	0.56
81:c0:3:MET:HE1	81:c0:45:ALA:HB2	1.86	0.56
36:5:52:A:H2'	36:5:53:G:H8	1.70	0.56
36:5:151:A:H2'	36:5:152:U:H6	1.71	0.56
36:5:287:G:OP1	51:m5:179:LYS:HD3	2.06	0.56
36:5:1076:C:O3'	65:n9:38:LYS:HE2	2.05	0.56
36:5:1594:A:H1'	36:5:1615:C:H1'	1.87	0.56
36:5:1783:U:H2'	36:5:1784:G:H8	1.68	0.56
36:5:3284:G:H8	36:5:3284:G:OP2	1.89	0.56
38:8:84:C:H5'	38:8:85:G:H5'	1.86	0.56
39:l2:214:GLY:C	39:l2:216:HIS:H	2.12	0.56
1:2:738:G:O6	87:2:1977:OHX:N4	2.39	0.56
1:2:1622:G:H2'	1:2:1623:C:C6	2.41	0.56
2:S0:172:LEU:HD13	2:S0:176:LEU:HD11	1.86	0.56
10:S8:185:GLU:HG2	13:C1:23:PRO:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:113:ASP:CG	18:C6:115:THR:H	2.14	0.56
25:D3:71:CYS:HB3	25:D3:85:ALA:O	2.04	0.56
36:1:285:A:H1'	78:Q2:45:ARG:NH2	2.20	0.56
36:1:2897:A:H2'	36:1:2899:C:H5''	1.86	0.56
42:L5:208:MET:HG3	42:L5:223:PHE:CZ	2.41	0.56
47:M0:148:VAL:O	47:M0:151:GLY:N	2.32	0.56
80:6:397:A:H5''	10:s8:51:GLY:N	2.21	0.56
80:6:1172:G:OP1	20:c8:144:ARG:HD2	2.05	0.56
80:6:1254:U:OP1	33:e1:143:LYS:HD3	2.05	0.56
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.71	0.56
6:s4:166:SER:O	6:s4:168:LYS:HG2	2.06	0.56
9:s7:89:HIS:CG	9:s7:165:LYS:HG2	2.41	0.56
36:5:388:G:N2	53:m7:101:ASN:OD1	2.36	0.56
36:5:595:G:C8	36:5:609:G:C6	2.93	0.56
36:5:729:C:P	54:m8:43:PRO:HB2	2.46	0.56
36:5:1444:G:H2'	36:5:1445:U:O4'	2.06	0.56
36:5:2586:G:N7	45:l8:241:LYS:HB2	2.21	0.56
36:5:2724:U:H3	36:5:2732:G:H1	1.53	0.56
51:m5:42:PRO:HG3	51:m5:61:ILE:HG13	1.88	0.56
54:m8:135:GLN:CD	54:m8:135:GLN:H	2.14	0.56
56:n0:7:TYR:CE1	56:n0:34:GLU:HG2	2.41	0.56
56:n0:17:GLU:O	56:n0:20:PRO:HD3	2.06	0.56
56:n0:95:ARG:NH1	56:n0:144:LEU:HD21	2.20	0.56
60:n4:46:PRO:HB2	60:n4:54:LEU:HD23	1.87	0.56
1:2:435:C:H5'	25:D3:50:LYS:HB2	1.87	0.56
1:2:579:A:C2	5:S3:143:ARG:HG3	2.40	0.56
1:2:579:A:N7	5:S3:178:ARG:HD2	2.20	0.56
1:2:767:U:H5	11:S9:142:ASN:H	1.54	0.56
1:2:1754:A:O2'	87:2:1936:OHX:N5	2.39	0.56
9:S7:74:GLN:O	9:S7:78:THR:OG1	2.19	0.56
20:C8:26:ILE:O	20:C8:28:ILE:N	2.39	0.56
28:D6:60:PRO:C	28:D6:62:TYR:H	2.14	0.56
31:D9:25:SER:HB3	87:D9:102:OHX:N3	2.21	0.56
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.22	0.56
36:1:69:C:N4	36:1:314:U:H4'	2.20	0.56
36:1:79:U:H2'	36:1:80:G:C8	2.40	0.56
36:1:564:G:H2'	36:1:565:U:C6	2.41	0.56
36:1:1493:G:O6	75:O9:2:ALA:HA	2.06	0.56
36:1:1686:U:O2	36:1:1688:U:H1'	2.06	0.56
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.35	0.56
48:M1:82:ARG:CG	48:M1:112:LEU:HB2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:89:ASN:ND2	57:N1:156:TYR:H	2.02	0.56
71:O5:13:SER:OG	71:O5:15:GLU:HG3	2.06	0.56
80:6:74:U:C4	80:6:76:A:H5'	2.41	0.56
80:6:647:G:H8	80:6:647:G:O5'	1.87	0.56
6:s4:23:LEU:O	6:s4:24:SER:HB2	2.06	0.56
24:d2:37:PHE:CZ	24:d2:103:ILE:HD11	2.41	0.56
31:d9:33:LYS:HE2	31:d9:34:TYR:CZ	2.41	0.56
34:sR:149:ASP:HB2	34:sR:175:ASP:HB3	1.86	0.56
36:5:2294:U:O2	36:5:2296:A:C8	2.58	0.56
36:5:2775:U:H2'	36:5:2776:C:H6	1.71	0.56
36:5:3078:U:H4'	36:5:3079:U:O5'	2.05	0.56
38:8:147:U:H5'	61:n5:38:LEU:HD12	1.88	0.56
41:l4:264:SER:C	41:l4:266:THR:H	2.13	0.56
47:m0:193:ASP:OD2	47:m0:198:LYS:NZ	2.38	0.56
49:m3:3:ILE:HG12	64:n8:34:MET:HE2	1.86	0.56
55:m9:28:GLU:HG3	55:m9:49:THR:HG22	1.88	0.56
1:2:23:G:OP1	11:S9:14:THR:HG21	2.05	0.56
1:2:1258:U:H4'	12:C0:2:LEU:HD13	1.88	0.56
2:S0:123:VAL:HG11	2:S0:133:ILE:HD11	1.88	0.56
3:S1:176:VAL:O	3:S1:178:GLY:N	2.38	0.56
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.87	0.56
36:1:119:U:O2'	45:L8:133:LYS:NZ	2.25	0.56
36:1:595:G:N1	36:1:609:G:H5''	2.20	0.56
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.71	0.56
50:M4:40:ASP:OD1	50:M4:41:GLN:N	2.38	0.56
51:M5:35:VAL:HG22	51:M5:65:ARG:NH2	2.20	0.56
52:M6:27:LEU:CD2	52:M6:101:ARG:HB2	2.34	0.56
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.41	0.56
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	1.88	0.56
71:O5:71:LYS:HD3	71:O5:72:GLY:N	2.21	0.56
80:6:331:A:O3'	10:s8:31:ARG:HB2	2.06	0.56
80:6:913:G:O6	36:5:2205:U:H1'	2.06	0.56
80:6:1373:C:H2'	80:6:1374:C:C6	2.40	0.56
80:6:1592:A:H2'	80:6:1593:A:C8	2.41	0.56
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.87	0.56
11:s9:135:ALA:HA	11:s9:139:GLN:O	2.06	0.56
18:c6:77:GLN:O	18:c6:81:ILE:HG23	2.06	0.56
20:c8:15:LEU:H	20:c8:15:LEU:HD22	1.70	0.56
20:c8:33:THR:HA	20:c8:38:VAL:HG23	1.86	0.56
36:5:1536:G:N2	36:5:1537:A:H1'	2.21	0.56
36:5:1625:A:OP2	87:5:3755:OHX:N5	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1840:U:OP2	87:5:3541:OHX:N4	2.39	0.56
36:5:2304:C:C5	36:5:2305:G:C6	2.94	0.56
36:5:3041:U:H2'	36:5:3042:U:C6	2.41	0.56
36:5:3272:C:O2	43:16:80:ASN:HB2	2.06	0.56
38:8:130:C:H2'	38:8:131:A:H8	1.71	0.56
46:19:49:ASN:C	46:19:51:GLN:H	2.14	0.56
46:19:90:MET:HE2	46:19:179:ILE:HG22	1.87	0.56
49:m3:177:LYS:HA	72:o6:11:LEU:HD22	1.88	0.56
59:n3:27:ASP:O	87:n3:201:OHX:N4	2.39	0.56
1:2:823:G:O2'	1:2:824:G:O5'	2.24	0.56
1:2:1401:A:OP1	19:C7:60:ARG:NH1	2.39	0.56
5:S3:220:PRO:HG3	34:SR:221:MET:HE1	1.89	0.56
17:C5:50:THR:O	17:C5:50:THR:OG1	2.23	0.56
20:C8:91:ASP:OD1	20:C8:92:ILE:N	2.39	0.56
36:1:500:C:H2'	36:1:501:A:H8	1.71	0.56
36:1:656:A:H2'	36:1:657:A:C8	2.41	0.56
36:1:743:C:O2	54:M8:141:ARG:HD2	2.05	0.56
36:1:744:A:H4'	54:M8:142:GLY:O	2.05	0.56
36:1:1240:A:H3'	36:1:1241:U:H5'	1.87	0.56
36:1:2534:G:H2'	36:1:2535:A:H8	1.71	0.56
36:1:3169:U:H2'	36:1:3170:A:O4'	2.06	0.56
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.88	0.56
40:L3:255:TRP:HD1	40:L3:255:TRP:O	1.89	0.56
49:M3:83:ALA:HB2	49:M3:113:VAL:HG13	1.87	0.56
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.06	0.56
67:O1:13:THR:CG2	67:O1:72:ARG:HH11	2.20	0.56
80:6:82:U:OP2	87:6:1952:OHX:N2	2.39	0.56
80:6:1146:G:O2'	4:s2:89:GLN:HG2	2.05	0.56
2:s0:175:TYR:HE1	2:s0:197:ILE:HG22	1.71	0.56
2:s0:187:ALA:O	2:s0:188:LEU:HD23	2.05	0.56
6:s4:192:ILE:HG13	6:s4:243:GLY:HA3	1.87	0.56
24:d2:67:GLY:O	24:d2:69:LEU:N	2.39	0.56
36:5:115:A:N6	36:5:154:U:C2	2.74	0.56
36:5:420:G:O6	87:5:3434:OHX:N3	2.38	0.56
36:5:1141:C:O2'	36:5:1153:A:N3	2.37	0.56
36:5:2167:A:H2'	36:5:2168:A:C8	2.41	0.56
36:5:2611:U:H2'	36:5:2612:U:C6	2.41	0.56
36:5:2894:C:H2'	36:5:2895:G:H8	1.71	0.56
37:7:91:G:H2'	37:7:92:A:H8	1.67	0.56
67:o1:27:LYS:O	67:o1:31:ARG:HB2	2.06	0.56
68:o2:100:ILE:HG22	68:o2:105:ARG:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:o5:31:LEU:HB3	71:o5:44:ILE:HD12	1.88	0.56
1:2:711:U:H1'	1:2:712:G:H5'	1.88	0.55
6:S4:124:GLY:HA2	6:S4:142:HIS:HE1	1.71	0.55
6:S4:191:ARG:HH11	6:S4:245:LYS:HB3	1.71	0.55
17:C5:98:ASN:HB3	17:C5:120:SER:OG	2.07	0.55
36:1:1107:C:H2'	36:1:1108:U:C6	2.41	0.55
36:1:1298:C:O3'	76:Q0:113:ARG:NH1	2.39	0.55
36:1:1733:G:P	87:1:3805:OHX:N6	2.78	0.55
36:1:2314:U:O2'	36:1:2315:G:OP1	2.24	0.55
38:4:124:G:OP2	87:4:210:OHX:N4	2.39	0.55
41:L4:234:ASN:OD1	41:L4:236:LEU:N	2.28	0.55
46:L9:37:ASN:ND2	46:L9:39:LYS:HG3	2.20	0.55
59:N3:25:CYS:SG	59:N3:31:ALA:HB3	2.47	0.55
80:6:228:G:H1	80:6:236:A:H61	1.54	0.55
80:6:479:C:O2	80:6:510:G:N2	2.39	0.55
80:6:1229:G:O6	14:c2:47:GLU:HG2	2.06	0.55
80:6:1270:G:H21	33:e1:79:LYS:HD2	1.69	0.55
8:s6:176:GLN:HG3	8:s6:177:ARG:H	1.72	0.55
10:s8:152:ILE:H	10:s8:152:ILE:HD13	1.71	0.55
20:c8:129:TRP:O	82:sM:68:ARG:HB2	2.06	0.55
36:5:198:A:N3	36:5:218:G:O2'	2.39	0.55
36:5:252:U:H4'	36:5:253:A:H5''	1.88	0.55
36:5:1074:U:H1'	65:n9:46:ALA:HB2	1.87	0.55
36:5:3165:A:H2'	36:5:3166:C:H6	1.71	0.55
36:5:3232:G:O6	87:5:3804:OHX:N4	2.39	0.55
36:5:3335:A:H5'	36:5:3335:A:C8	2.40	0.55
36:5:3341:U:H5''	36:5:3342:A:OP2	2.06	0.55
41:l4:5:GLN:HA	41:l4:20:LEU:O	2.06	0.55
74:o8:11:PHE:HD1	74:o8:12:LEU:HD22	1.71	0.55
1:2:338:C:H1'	10:S8:5:ARG:HB3	1.88	0.55
1:2:924:A:H2'	1:2:925:G:C8	2.42	0.55
5:S3:7:LYS:HA	5:S3:7:LYS:HE3	1.87	0.55
5:S3:167:PHE:CE1	5:S3:192:PRO:HB3	2.41	0.55
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.88	0.55
21:C9:30:VAL:O	21:C9:32:GLY:N	2.39	0.55
36:1:170:G:H1	36:1:248:U:H3	1.54	0.55
36:1:303:G:C2	36:1:313:A:C2	2.95	0.55
36:1:1073:U:H1'	65:N9:50:THR:HG22	1.88	0.55
36:1:2331:C:H2'	36:1:2332:A:H8	1.71	0.55
36:1:2615:G:OP1	87:1:3738:OHX:N4	2.39	0.55
36:1:2638:C:H2'	36:1:2639:G:H8	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:106:C:O2'	87:4:213:OHX:N4	2.39	0.55
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.38	0.55
38:4:145:U:H2'	38:4:146:U:O4'	2.05	0.55
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.05	0.55
49:M3:192:GLU:O	49:M3:194:GLU:N	2.39	0.55
61:N5:132:ALA:HA	61:N5:135:ILE:HG22	1.88	0.55
64:N8:104:THR:HG21	64:N8:112:ILE:HD11	1.89	0.55
64:N8:147:LEU:HB3	72:O6:7:ILE:HG22	1.88	0.55
66:O0:15:ALA:O	66:O0:19:LYS:HG2	2.06	0.55
80:6:955:A:OP1	15:c3:3:ARG:NH1	2.37	0.55
80:6:1382:A:H5''	22:d0:60:THR:HG22	1.88	0.55
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.88	0.55
4:s2:54:GLU:O	4:s2:58:LEU:HB2	2.07	0.55
4:s2:73:LEU:HG	4:s2:76:LEU:HD12	1.88	0.55
28:d6:41:ILE:HD12	28:d6:68:TYR:HD1	1.69	0.55
34:sR:106:HIS:CD2	34:sR:110:VAL:HG22	2.40	0.55
34:sR:297:ASP:C	34:sR:299:GLN:H	2.14	0.55
36:5:144:A:N6	36:5:145:G:C2	2.74	0.55
36:5:787:G:H2'	36:5:788:C:C6	2.41	0.55
36:5:1253:U:O2	36:5:1263:A:H5'	2.06	0.55
36:5:1499:C:H2'	36:5:1500:G:H8	1.71	0.55
36:5:3268:A:O2'	36:5:3269:U:H2'	2.06	0.55
42:l5:95:TRP:CZ3	42:l5:181:PRO:HG3	2.41	0.55
48:m1:24:GLY:HA2	48:m1:65:ILE:HG23	1.88	0.55
54:m8:72:LYS:NZ	54:m8:72:LYS:HB3	2.21	0.55
55:m9:7:GLN:CD	55:m9:7:GLN:H	2.13	0.55
1:2:652:G:H1	1:2:682:C:H42	1.54	0.55
1:2:886:U:H2'	1:2:887:A:O4'	2.06	0.55
1:2:934:C:N3	1:2:1077:C:H4'	2.22	0.55
1:2:1155:G:O2'	87:2:1943:OHX:N4	2.39	0.55
1:2:1597:A:C8	31:D9:14:TYR:CD2	2.93	0.55
1:2:1618:C:O2'	87:2:2078:OHX:N3	2.39	0.55
1:2:1655:A:OP1	87:2:1969:OHX:N5	2.39	0.55
2:S0:30:GLN:NE2	2:S0:149:LEU:HD13	2.21	0.55
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.89	0.55
7:S5:98:MET:HB2	7:S5:105:GLY:O	2.06	0.55
19:C7:46:LEU:HD22	19:C7:50:ILE:HG13	1.88	0.55
21:C9:77:ASN:HB3	21:C9:95:ASP:HB3	1.87	0.55
34:SR:244:ALA:O	34:SR:294:TRP:NE1	2.37	0.55
36:1:2391:G:C6	36:1:2392:C:C4	2.95	0.55
36:1:2427:U:H2'	36:1:2428:U:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:26:C:H2'	37:3:57:G:H22	1.71	0.55
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.41	0.55
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.20	0.55
68:O2:105:ARG:NH1	68:O2:125:ARG:HH11	2.04	0.55
71:O5:51:ILE:HG22	71:O5:55:LEU:HD12	1.87	0.55
80:6:348:U:O4	87:6:2021:OHX:N4	2.39	0.55
80:6:827:C:H2'	80:6:828:U:H6	1.71	0.55
80:6:1514:U:O5'	80:6:1515:A:H5'	2.06	0.55
80:6:1699:G:H22	80:6:1702:A:H5''	1.70	0.55
2:s0:172:LEU:HD22	2:s0:176:LEU:HG	1.88	0.55
5:s3:53:THR:O	5:s3:53:THR:OG1	2.15	0.55
9:s7:49:ILE:HD12	9:s7:172:VAL:HA	1.89	0.55
9:s7:102:PRO:HD3	9:s7:112:ARG:HD3	1.88	0.55
15:c3:55:ARG:NH1	15:c3:56:ASP:OD1	2.38	0.55
17:c5:96:ILE:O	17:c5:103:ASN:N	2.37	0.55
27:d5:93:SER:HB3	27:d5:100:ILE:HB	1.89	0.55
36:5:1192:C:C5	87:5:3593:OHX:N5	2.71	0.55
36:5:1389:G:H21	36:5:1390:A:H61	1.53	0.55
36:5:1495:U:H4'	36:5:1514:G:H4'	1.87	0.55
36:5:1898:G:H1'	59:n3:18:PRO:HG2	1.87	0.55
36:5:2202:C:H5''	39:l2:226:SER:N	2.20	0.55
36:5:2712:U:O2'	36:5:2743:A:O2'	2.06	0.55
36:5:2730:G:OP2	87:5:3460:OHX:N4	2.39	0.55
40:l3:117:ARG:HA	40:l3:175:LYS:HD3	1.89	0.55
43:l6:97:ASN:C	43:l6:99:GLU:H	2.14	0.55
47:m0:85:PHE:CA	47:m0:140:THR:HG22	2.36	0.55
62:n6:58:VAL:O	62:n6:65:GLY:N	2.29	0.55
86:B:3403:8AN:C3'	90:B:3501:PRO:C	2.78	0.55
1:2:757:A:H4'	6:S4:22:LYS:HD3	1.88	0.55
1:2:1294:G:O6	87:2:1956:OHX:N4	2.40	0.55
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.07	0.55
3:S1:183:GLN:HG2	3:S1:187:LYS:HE3	1.89	0.55
4:S2:40:LYS:HA	4:S2:43:ARG:NH1	2.22	0.55
4:S2:73:LEU:HG	4:S2:76:LEU:HD13	1.89	0.55
4:S2:98:PHE:CE1	35:SM:116:GLU:HG3	2.41	0.55
28:D6:54:SER:HA	28:D6:57:SER:HB2	1.87	0.55
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.87	0.55
36:1:804:C:OP1	41:L4:98:ARG:NH2	2.29	0.55
36:1:835:G:N2	36:1:857:G:O2'	2.39	0.55
36:1:1278:A:O2'	36:1:1279:C:O5'	2.25	0.55
36:1:1724:U:H1'	36:1:1725:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.88	0.55
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.88	0.55
54:M8:170:ARG:O	54:M8:171:LYS:HB2	2.06	0.55
63:N7:36:HIS:CE1	63:N7:74:VAL:HG11	2.41	0.55
80:6:87:C:O2'	80:6:169:A:N1	2.38	0.55
80:6:322:G:OP1	87:6:1961:OHX:N5	2.40	0.55
80:6:819:G:O2'	80:6:821:U:OP2	2.24	0.55
80:6:1182:U:O4	87:c5:202:OHX:N4	2.40	0.55
5:s3:34:TYR:CE2	5:s3:37:VAL:HG13	2.41	0.55
13:c1:20:PHE:CZ	13:c1:22:ASN:HA	2.42	0.55
16:c4:29:HIS:CD2	16:c4:41:ARG:HB2	2.42	0.55
22:d0:99:ILE:O	22:d0:103:ILE:HB	2.06	0.55
25:d3:92:CYS:HA	25:d3:95:PHE:CD2	2.42	0.55
27:d5:88:ILE:HG22	27:d5:89:ILE:HG23	1.88	0.55
36:5:270:U:H2'	36:5:271:C:H6	1.72	0.55
36:5:1336:U:H2'	36:5:1337:A:H8	1.69	0.55
38:8:149:A:H2'	38:8:150:G:C8	2.42	0.55
40:l3:224:HIS:HB2	40:l3:270:ARG:O	2.06	0.55
41:l4:329:PRO:C	41:l4:331:ALA:N	2.65	0.55
52:m6:119:VAL:HG21	56:n0:167:ARG:HD2	1.89	0.55
55:m9:84:THR:O	55:m9:88:ARG:HG2	2.06	0.55
61:n5:54:TYR:O	61:n5:56:ARG:N	2.39	0.55
62:n6:102:SER:O	62:n6:103:LYS:HD3	2.06	0.55
63:n7:23:VAL:HG12	63:n7:45:GLY:HA3	1.89	0.55
1:2:687:G:N7	87:2:2044:OHX:N5	2.54	0.55
1:2:1339:C:H4'	1:2:1340:U:OP2	2.05	0.55
5:S3:29:LEU:HD21	5:S3:69:LEU:HD11	1.89	0.55
18:C6:39:VAL:HG21	18:C6:48:VAL:HG11	1.89	0.55
35:SM:46:LYS:HB3	36:1:2678:A:O4'	2.06	0.55
36:1:1344:G:H1	36:1:1360:C:H42	1.54	0.55
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.06	0.55
39:L2:209:HIS:HD2	39:L2:211:HIS:N	2.01	0.55
45:L8:75:ILE:HD11	51:M5:22:LEU:HD13	1.88	0.55
48:M1:80:LEU:HD13	48:M1:167:TYR:OH	2.06	0.55
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.42	0.55
80:6:18:C:H2'	80:6:19:A:H8	1.69	0.55
80:6:213:A:OP2	87:6:2005:OHX:N1	2.40	0.55
80:6:1229:G:O6	14:c2:47:GLU:N	2.40	0.55
5:s3:161:GLY:O	5:s3:164:VAL:HG12	2.06	0.55
7:s5:59:VAL:C	7:s5:61:TYR:H	2.15	0.55
9:s7:40:PRO:HG2	9:s7:41:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:79:HIS:O	17:c5:81:ARG:N	2.37	0.55
36:5:823:C:H2'	36:5:824:C:H6	1.71	0.55
36:5:1239:C:H42	36:5:1249:G:H1	1.53	0.55
36:5:2512:C:H5'	36:5:2512:C:H6	1.72	0.55
37:7:1:G:H21	42:l5:269:SER:CB	2.20	0.55
45:l8:174:GLY:O	45:l8:176:PRO:HD3	2.06	0.55
52:m6:119:VAL:HG12	56:n0:164:SER:HB3	1.87	0.55
53:m7:16:SER:HB2	53:m7:149:VAL:HG12	1.88	0.55
60:n4:63:ILE:O	60:n4:65:GLU:N	2.40	0.55
76:q0:94:SER:OG	76:q0:104:PRO:O	2.24	0.55
1:2:201:G:H2'	1:2:202:A:C8	2.42	0.55
1:2:280:U:O2'	1:2:281:G:OP2	2.22	0.55
1:2:312:A:C2	1:2:314:C:H2'	2.42	0.55
1:2:1382:A:O2'	1:2:1383:G:H5''	2.07	0.55
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.42	0.55
2:S0:119:ARG:HD2	4:S2:241:ASP:OD1	2.07	0.55
11:S9:122:VAL:HG23	11:S9:123:HIS:CD2	2.42	0.55
21:C9:57:ARG:HB2	21:C9:57:ARG:HH11	1.72	0.55
23:D1:83:TRP:CH2	23:D1:85:TYR:HD2	2.25	0.55
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.88	0.55
26:D4:55:VAL:HG22	26:D4:75:VAL:HG23	1.88	0.55
27:D5:55:PRO:C	27:D5:57:TYR:H	2.15	0.55
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.71	0.55
36:1:742:G:N7	87:1:3512:OHX:N1	2.54	0.55
36:1:770:G:N7	87:1:3635:OHX:N3	2.55	0.55
36:1:828:A:H2'	36:1:829:U:C6	2.41	0.55
36:1:1501:U:O2'	36:1:1502:C:H5'	2.06	0.55
36:1:1750:A:H4'	36:1:1751:G:H5'	1.87	0.55
36:1:2137:U:OP2	36:1:2142:A:N6	2.34	0.55
36:1:3057:U:H5'	36:1:3086:A:H61	1.72	0.55
36:1:3155:U:O4	87:1:3699:OHX:N6	2.39	0.55
37:3:40:C:H5''	37:3:41:G:OP2	2.06	0.55
46:L9:171:ASP:OD1	46:L9:173:ARG:HD2	2.07	0.55
51:M5:58:GLY:HA3	51:M5:142:ILE:HD13	1.89	0.55
53:M7:105:LYS:HB2	53:M7:107:LEU:HD22	1.89	0.55
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.89	0.55
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.42	0.55
80:6:1150:G:H5''	80:6:1151:A:O5'	2.07	0.55
80:6:1315:U:P	80:6:1328:G:H22	2.30	0.55
80:6:1492:A:O2'	80:6:1493:A:H8	1.88	0.55
80:6:1635:A:O5'	80:6:1635:A:H8	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:173:TYR:CE1	9:s7:181:ILE:HD11	2.42	0.55
10:s8:38:ILE:HG12	10:s8:96:LEU:HD11	1.87	0.55
30:d8:26:THR:HB	30:d8:44:VAL:HG22	1.89	0.55
36:5:208:C:C2'	36:5:209:A:H5'	2.36	0.55
36:5:1070:U:O4	87:5:3613:OHX:N6	2.40	0.55
36:5:1336:U:H2'	36:5:1337:A:C8	2.41	0.55
38:8:68:G:H1	38:8:91:C:N4	2.01	0.55
40:l3:150:ARG:HG2	40:l3:150:ARG:NH1	2.18	0.55
41:l4:39:PHE:CD2	41:l4:242:ALA:HB2	2.42	0.55
43:l6:35:VAL:HB	43:l6:90:LYS:HD3	1.89	0.55
43:l6:55:LEU:HB2	43:l6:64:LEU:HB3	1.87	0.55
48:m1:92:ARG:NH1	48:m1:94:ARG:HH11	2.05	0.55
53:m7:131:ARG:HG3	53:m7:137:ASN:OD1	2.07	0.55
55:m9:92:GLN:HG2	55:m9:96:ILE:HD11	1.89	0.55
59:n3:120:LYS:HB2	59:n3:137:VAL:HG23	1.89	0.55
1:2:23:G:O2'	1:2:368:U:OP1	2.23	0.55
1:2:796:A:OP2	87:2:1935:OHX:N6	2.39	0.55
1:2:1585:U:N3	1:2:1611:A:H2	1.96	0.55
28:D6:35:ALA:HB3	28:D6:37:LYS:HE3	1.88	0.55
34:SR:224:ASN:HD22	34:SR:231:MET:HE3	1.71	0.55
36:1:1667:A:H2'	36:1:1668:G:C8	2.41	0.55
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.22	0.55
41:L4:141:ARG:CZ	41:L4:180:LYS:HD3	2.37	0.55
41:L4:359:LEU:O	56:N0:26:ARG:NH2	2.40	0.55
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	1.89	0.55
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	1.89	0.55
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.40	0.55
64:N8:28:HIS:CD2	64:N8:32:ARG:HG3	2.42	0.55
78:Q2:99:GLN:OE1	78:Q2:102:GLN:NE2	2.39	0.55
80:6:381:C:P	11:s9:2:PRO:HA	2.47	0.55
80:6:461:G:H2'	80:6:462:G:C8	2.42	0.55
80:6:1180:C:O2'	17:c5:128:HIS:HA	2.06	0.55
10:s8:120:THR:O	87:s8:301:OHX:N4	2.40	0.55
15:c3:46:THR:OG1	15:c3:49:GLN:HG2	2.07	0.55
36:5:30:G:O5'	51:m5:172:ARG:HD2	2.07	0.55
36:5:92:G:H5'	36:5:93:C:H5''	1.88	0.55
36:5:242:C:H2'	36:5:243:G:C8	2.41	0.55
36:5:920:A:H5''	36:5:922:U:C5	2.42	0.55
36:5:944:C:H2'	36:5:945:C:H6	1.72	0.55
36:5:1389:G:H2'	36:5:1390:A:H2	1.72	0.55
36:5:3378:C:H2'	36:5:3379:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:28:C:H1'	37:7:55:A:H61	1.72	0.55
41:l4:3:ARG:NH2	41:l4:259:ASP:OD2	2.40	0.55
42:l5:52:VAL:HA	42:l5:147:ASP:HB3	1.88	0.55
44:l7:68:ASP:O	44:l7:71:ALA:N	2.39	0.55
48:m1:28:ASP:HA	48:m1:31:THR:HG23	1.88	0.55
57:n1:68:THR:HG22	57:n1:71:SER:O	2.07	0.55
75:o9:28:ARG:HA	75:o9:33:ASN:ND2	2.22	0.55
1:2:38:C:H2'	1:2:39:A:H5'	1.87	0.55
1:2:197:A:H61	10:S8:138:ASN:ND2	2.03	0.55
1:2:775:G:O6	26:D4:11:LYS:NZ	2.39	0.55
1:2:1762:A:H1'	1:2:1783:C:H5'	1.89	0.55
14:C2:36:LEU:HD11	14:C2:101:ALA:O	2.06	0.55
14:C2:60:VAL:HG13	14:C2:122:VAL:HG22	1.88	0.55
16:C4:106:ALA:HB1	28:D6:56:ALA:HB3	1.89	0.55
26:D4:127:LYS:HE3	26:D4:127:LYS:C	2.32	0.55
36:1:709:A:H1'	36:1:2787:G:O2'	2.07	0.55
36:1:2245:C:H4'	39:L2:221:LYS:O	2.06	0.55
36:1:3081:C:OP1	87:1:3809:OHX:N5	2.40	0.55
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.89	0.55
42:L5:294:ALA:O	42:L5:296:GLN:N	2.39	0.55
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.39	0.55
51:M5:199:LEU:HB3	51:M5:203:ARG:HE	1.70	0.55
80:6:235:G:H2'	80:6:236:A:C8	2.32	0.55
80:6:524:U:H2'	80:6:526:A:OP2	2.07	0.55
80:6:729:G:O2'	80:6:730:G:O5'	2.25	0.55
80:6:1081:A:H2	80:6:1082:C:H41	1.54	0.55
3:s1:104:ASP:OD1	3:s1:214:LYS:HG3	2.06	0.55
3:s1:126:THR:HG22	3:s1:136:ARG:HE	1.72	0.55
6:s4:122:LYS:HG3	6:s4:123:LEU:O	2.07	0.55
9:s7:141:ARG:NH2	9:s7:143:LEU:HD21	2.21	0.55
11:s9:113:VAL:HG12	11:s9:119:ALA:HB2	1.87	0.55
24:d2:24:GLN:NE2	29:d7:4:VAL:HA	2.20	0.55
34:sR:251:TRP:NE1	34:sR:271:VAL:HG21	2.21	0.55
36:5:149:U:P	51:m5:49:ARG:HH11	2.30	0.55
36:5:422:A:C2	36:5:2363:A:H4'	2.42	0.55
36:5:1691:U:H2'	36:5:1692:U:H6	1.71	0.55
36:5:2121:G:H2'	36:5:2122:G:O5'	2.07	0.55
36:5:3081:C:H2'	36:5:3082:C:H6	1.70	0.55
36:5:3302:U:H3	36:5:3312:U:H3	1.55	0.55
40:l3:77:THR:HG23	40:l3:326:GLY:O	2.06	0.55
42:l5:88:ILE:HD12	42:l5:240:TYR:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:83:LEU:HD22	44:l7:84:VAL:N	2.21	0.55
63:n7:5:LEU:HD22	63:n7:77:TYR:CZ	2.42	0.55
1:2:694:U:H3	9:S7:98:ILE:HD12	1.72	0.55
1:2:768:C:C2	11:S9:143:ILE:HG12	2.42	0.55
1:2:1486:G:N7	1:2:1487:A:C8	2.75	0.55
1:2:1783:C:H2'	1:2:1784:C:C6	2.41	0.55
4:S2:118:ALA:HB3	4:S2:124:ALA:HB2	1.89	0.55
9:S7:35:LYS:O	9:S7:37:GLU:HG2	2.07	0.55
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.89	0.55
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.38	0.55
27:D5:71:ILE:HG22	27:D5:75:LEU:HB2	1.89	0.55
36:1:73:C:O2	49:M3:59:ARG:HD3	2.07	0.55
36:1:282:G:H3'	36:1:282:G:C8	2.41	0.55
36:1:784:A:C8	54:M8:69:ARG:HG3	2.42	0.55
36:1:789:A:H2'	36:1:790:U:C6	2.42	0.55
36:1:1230:G:H1	36:1:1279:C:H42	1.54	0.55
36:1:2358:A:H2'	36:1:2359:C:O4'	2.07	0.55
36:1:2443:A:N6	36:1:2504:U:C4	2.75	0.55
36:1:2633:U:H2'	36:1:2634:U:O4'	2.05	0.55
36:1:2831:G:H2'	36:1:2832:C:H6	1.72	0.55
36:1:3029:A:C5	36:1:3030:G:H1'	2.42	0.55
36:1:3313:U:H4'	40:L3:173:GLN:OE1	2.07	0.55
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.89	0.55
39:L2:178:PRO:HD2	79:Q3:26:VAL:HG22	1.87	0.55
42:L5:286:VAL:HG13	47:M0:206:LEU:HD22	1.89	0.55
80:6:197:A:H2'	80:6:198:A:C8	2.42	0.55
80:6:486:G:O6	80:6:488:G:N2	2.40	0.55
80:6:753:A:H62	6:s4:187:ARG:NH2	1.99	0.55
80:6:1239:U:O4	87:6:1951:OHX:N5	2.40	0.55
80:6:1696:G:H5''	80:6:1696:G:H8	1.72	0.55
2:s0:7:PHE:HA	2:s0:191:ARG:HH12	1.71	0.55
20:c8:23:ASP:HB3	20:c8:26:ILE:HG12	1.88	0.55
20:c8:140:THR:HA	20:c8:143:ARG:HH11	1.72	0.55
26:d4:84:LYS:HB3	26:d4:85:PHE:CD2	2.42	0.55
30:d8:26:THR:HB	30:d8:44:VAL:CG2	2.37	0.55
36:5:259:C:H2'	36:5:260:C:H6	1.72	0.55
36:5:804:C:O2'	41:l4:74:ILE:HD12	2.06	0.55
36:5:1103:A:H3'	36:5:1104:G:H5'	1.89	0.55
36:5:1408:G:P	68:o2:31:ASN:HD22	2.30	0.55
36:5:1764:U:H3'	36:5:1765:U:H5''	1.89	0.55
36:5:1822:C:H2'	36:5:1823:A:H8	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2148:U:O2'	39:l2:182:ALA:HB2	2.07	0.55
36:5:2240:G:H2'	36:5:2241:U:O4'	2.06	0.55
36:5:2530:G:H2'	36:5:2531:C:H5'	1.89	0.55
36:5:2533:G:H1	36:5:2546:C:H42	1.54	0.55
36:5:3153:U:H4'	36:5:3154:C:H5'	1.88	0.55
37:7:121:U:H5''	42:l5:265:TYR:HE1	1.71	0.55
57:n1:9:SER:O	57:n1:11:THR:HG23	2.07	0.55
73:o7:28:HIS:ND1	73:o7:31:LYS:HB2	2.21	0.55
1:2:304:U:H2'	1:2:305:C:H6	1.72	0.55
1:2:703:G:H2'	1:2:704:C:H5'	1.89	0.55
1:2:980:G:H4'	1:2:1776:A:H4'	1.88	0.55
34:SR:69:GLN:HG2	34:SR:111:MET:SD	2.46	0.55
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.37	0.55
36:1:952:A:H1'	36:1:1114:U:H1'	1.87	0.55
36:1:1483:G:C8	36:1:1485:G:C8	2.96	0.55
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.21	0.55
36:1:2309:A:H4'	87:1:3691:OHX:N4	2.23	0.55
36:1:3267:A:O2'	43:L6:73:GLY:O	2.25	0.55
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	1.88	0.55
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	1.88	0.55
47:M0:33:ILE:HD11	47:M0:36:LEU:HG	1.88	0.55
48:M1:110:ILE:HG22	48:M1:115:LYS:O	2.07	0.55
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.42	0.55
80:6:14:C:OP2	4:s2:206:THR:HG21	2.07	0.55
80:6:825:U:O2'	80:6:826:U:OP2	2.19	0.55
80:6:1330:G:H2'	80:6:1331:A:O4'	2.07	0.55
80:6:1654:G:H2'	80:6:1745:G:N2	2.22	0.55
13:c1:55:ASP:C	13:c1:57:LYS:H	2.14	0.55
21:c9:25:GLN:C	21:c9:27:LYS:H	2.15	0.55
24:d2:20:THR:OG1	24:d2:22:LYS:HD3	2.07	0.55
36:5:177:U:OP2	87:5:3519:OHX:N6	2.40	0.55
36:5:536:U:H1'	36:5:559:A:C8	2.42	0.55
36:5:783:A:OP2	87:5:3713:OHX:N3	2.40	0.55
36:5:2413:A:H2'	36:5:2414:G:C8	2.43	0.55
36:5:3241:G:H2'	36:5:3245:A:C8	2.41	0.55
36:5:3350:C:H2'	36:5:3351:U:C2	2.42	0.55
39:l2:52:SER:HB3	39:l2:191:LEU:CD1	2.35	0.55
40:l3:167:ARG:O	87:l3:401:OHX:N5	2.40	0.55
49:m3:46:ILE:CG2	49:m3:49:ARG:HB2	2.36	0.55
53:m7:31:GLU:HG2	53:m7:60:PHE:HA	1.88	0.55
63:n7:17:ARG:C	63:n7:19:ALA:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:14:ARG:NH2	65:n9:18:ARG:HD3	2.21	0.55
1:2:67:A:O3'	1:2:68:A:H3'	2.07	0.54
1:2:79:C:H4'	8:S6:173:PRO:O	2.08	0.54
1:2:900:A:H4'	1:2:916:U:H1'	1.87	0.54
1:2:1018:U:H2'	1:2:1019:A:C8	2.42	0.54
1:2:1277:G:H2'	1:2:1278:G:O4'	2.07	0.54
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.07	0.54
4:S2:159:THR:OG1	4:S2:168:ARG:HG3	2.07	0.54
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.70	0.54
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.88	0.54
36:1:966:U:N3	36:1:967:A:N7	2.55	0.54
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.33	0.54
36:1:1240:A:H2	36:1:1248:C:H41	1.53	0.54
36:1:1609:C:H5''	61:N5:125:ARG:HH11	1.72	0.54
36:1:3159:C:H2'	36:1:3160:U:C6	2.42	0.54
41:L4:20:LEU:HD13	41:L4:256:THR:HG23	1.90	0.54
42:L5:99:TYR:CD2	42:L5:199:ILE:HG12	2.42	0.54
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.89	0.54
49:M3:6:ASN:O	49:M3:7:LEU:HD23	2.07	0.54
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.07	0.54
68:O2:105:ARG:HH12	68:O2:125:ARG:HH11	1.55	0.54
80:6:1235:C:H5'	33:e1:146:SER:HB2	1.87	0.54
80:6:1421:A:H8	80:6:1421:A:O5'	1.90	0.54
80:6:1482:C:OP2	80:6:1521:G:N2	2.39	0.54
80:6:1533:C:OP2	27:d5:77:ARG:NH1	2.24	0.54
80:6:1699:G:N1	80:6:1701:A:H5''	2.22	0.54
6:s4:10:LYS:NZ	11:s9:2:PRO:HB3	2.22	0.54
6:s4:128:LYS:HD3	6:s4:130:GLN:NE2	2.22	0.54
7:s5:203:LYS:HE2	7:s5:203:LYS:HA	1.89	0.54
11:s9:106:GLU:O	11:s9:111:THR:OG1	2.23	0.54
81:c0:44:LYS:HA	81:c0:47:GLN:HB3	1.90	0.54
14:c2:103:LEU:HD23	14:c2:115:VAL:HA	1.90	0.54
25:d3:73:ARG:NH1	25:d3:82:LYS:HB3	2.22	0.54
36:5:239:G:N7	87:5:3635:OHX:N5	2.56	0.54
36:5:641:C:OP1	64:n8:21:ARG:HB3	2.07	0.54
36:5:871:U:H2'	36:5:872:U:C6	2.41	0.54
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.88	0.54
36:5:1517:G:C6	36:5:1518:U:C4	2.95	0.54
36:5:2261:G:O6	87:5:3449:OHX:N5	2.40	0.54
38:8:40:A:H2'	38:8:41:A:C8	2.42	0.54
39:l2:116:VAL:HA	39:l2:163:ARG:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:229:PHE:C	44:l7:229:PHE:CD1	2.85	0.54
46:l9:109:ALA:O	46:l9:110:LYS:HB2	2.07	0.54
49:m3:6:ASN:O	49:m3:7:LEU:HD23	2.06	0.54
51:m5:4:TYR:CE1	51:m5:49:ARG:HD3	2.42	0.54
51:m5:114:ARG:HG2	51:m5:137:PRO:HG3	1.88	0.54
1:2:484:C:H42	1:2:503:G:H22	1.55	0.54
1:2:1498:G:C2'	1:2:1499:G:H5'	2.38	0.54
1:2:1811:G:H22	1:2:1816:C:H42	1.54	0.54
3:S1:124:ASN:N	3:S1:124:ASN:OD1	2.39	0.54
12:C0:7:ASP:O	12:C0:11:ILE:HG12	2.07	0.54
31:D9:24:CYS:O	31:D9:25:SER:HB2	2.06	0.54
36:1:54:C:O2'	36:1:1547:G:H1'	2.06	0.54
36:1:534:U:O2	56:N0:146:LYS:HA	2.06	0.54
36:1:553:U:H5''	36:1:554:A:OP2	2.07	0.54
36:1:1305:U:N1	40:L3:257:PRO:HG3	2.22	0.54
36:1:1853:U:OP2	87:1:3572:OHX:N3	2.40	0.54
36:1:2827:U:O4	87:1:3403:OHX:N4	2.40	0.54
36:1:2836:C:H5	36:1:2852:C:N4	1.99	0.54
36:1:3243:A:O2'	36:1:3244:A:H8	1.90	0.54
37:3:36:C:H2'	37:3:37:G:C8	2.42	0.54
38:4:79:A:H5''	71:O5:43:LYS:NZ	2.22	0.54
40:L3:160:VAL:HG23	40:L3:183:LEU:HD22	1.87	0.54
42:L5:233:ALA:O	42:L5:235:SER:N	2.40	0.54
44:L7:160:ARG:HG3	44:L7:203:TRP:CD2	2.42	0.54
50:M4:3:THR:O	50:M4:3:THR:OG1	2.22	0.54
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.89	0.54
58:N2:43:VAL:HG21	58:N2:50:LEU:HD23	1.89	0.54
64:N8:125:VAL:HG21	64:N8:138:ILE:HD13	1.89	0.54
64:N8:130:VAL:HG21	64:N8:135:GLU:HG3	1.88	0.54
66:O0:32:LYS:HG3	66:O0:35:ARG:HH21	1.72	0.54
80:6:461:G:H5''	6:s4:26:CYS:SG	2.47	0.54
80:6:990:C:O2'	16:c4:127:ARG:HD3	2.08	0.54
80:6:1237:G:H2'	80:6:1238:A:C8	2.41	0.54
6:s4:49:ARG:HG3	6:s4:50:ASN:N	2.20	0.54
7:s5:197:GLU:OE1	7:s5:208:SER:HB2	2.07	0.54
19:c7:7:LYS:HD2	19:c7:11:ARG:HH21	1.71	0.54
20:c8:145:ARG:HB3	82:sM:68:ARG:HH12	1.72	0.54
21:c9:61:VAL:O	21:c9:65:ILE:HG13	2.07	0.54
34:sR:167:VAL:HG23	34:sR:183:LEU:HB2	1.88	0.54
36:5:148:G:N7	45:l8:137:ASN:ND2	2.54	0.54
36:5:1334:U:H5'	44:l7:207:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1514:G:H2'	36:5:1514:G:N3	2.22	0.54
36:5:1581:C:OP2	36:5:1581:C:H4'	2.07	0.54
36:5:1728:G:H5''	36:5:1730:G:O4'	2.08	0.54
36:5:1873:U:OP1	55:m9:56:THR:HG23	2.07	0.54
36:5:2209:U:H4'	36:5:2210:G:OP1	2.06	0.54
36:5:3057:U:H5'	36:5:3086:A:H61	1.72	0.54
39:l2:3:ARG:HB3	39:l2:207:VAL:O	2.08	0.54
42:l5:208:MET:HE3	42:l5:223:PHE:CD2	2.42	0.54
43:l6:30:LEU:HD21	43:l6:57:HIS:CD2	2.43	0.54
47:m0:89:VAL:HG22	47:m0:136:PHE:CE1	2.42	0.54
50:m4:77:ARG:O	50:m4:81:VAL:HG23	2.07	0.54
51:m5:168:GLY:O	51:m5:172:ARG:HB2	2.07	0.54
70:o4:5:VAL:HG21	70:o4:32:ALA:H	1.71	0.54
84:p0:93:LEU:HD13	84:p0:94:THR:HG23	1.89	0.54
1:2:558:U:O2	1:2:558:U:H2'	2.08	0.54
1:2:1133:A:N3	1:2:1650:U:O2'	2.38	0.54
1:2:1335:U:H3	1:2:1416:G:H1	1.54	0.54
1:2:1812:G:N2	1:2:1814:A:H5''	2.23	0.54
14:C2:67:THR:C	14:C2:69:ALA:H	2.15	0.54
36:1:158:G:H2'	36:1:159:A:C8	2.43	0.54
36:1:1192:C:H4'	36:1:1193:A:OP2	2.08	0.54
36:1:1634:G:O6	63:N7:17:ARG:HG3	2.07	0.54
36:1:2533:G:C5	87:1:3747:OHX:N4	2.75	0.54
39:L2:116:VAL:HG13	39:L2:126:LEU:HB2	1.88	0.54
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.88	0.54
41:L4:89:ALA:C	41:L4:91:GLY:H	2.14	0.54
41:L4:181:VAL:O	41:L4:182:LEU:HB2	2.06	0.54
43:L6:22:ARG:C	43:L6:23:LYS:HG2	2.31	0.54
45:L8:136:LEU:HD22	51:M5:3:ALA:HB2	1.90	0.54
46:L9:124:ARG:HG2	46:L9:164:ILE:HD12	1.89	0.54
47:M0:55:ASN:ND2	47:M0:162:GLN:OE1	2.31	0.54
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.08	0.54
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	1.89	0.54
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.38	0.54
66:O0:9:SER:OG	66:O0:10:ILE:N	2.36	0.54
67:O1:41:LYS:NZ	67:O1:47:ASP:OD1	2.28	0.54
77:Q1:13:LEU:HD11	77:Q1:17:ARG:NH1	2.22	0.54
80:6:55:A:H3'	80:6:403:G:N2	2.22	0.54
3:s1:219:LYS:NZ	79:q3:89:MET:O	2.30	0.54
11:s9:133:HIS:CD2	11:s9:162:SER:HB2	2.41	0.54
15:c3:42:ARG:C	15:c3:44:GLY:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:78:ASN:HB3	15:c3:80:LEU:HD22	1.89	0.54
15:c3:101:HIS:HA	15:c3:104:ARG:HH11	1.72	0.54
17:c5:25:LEU:HA	17:c5:28:MET:HE2	1.89	0.54
23:d1:79:LEU:HD13	23:d1:82:VAL:HG21	1.89	0.54
24:d2:7:LEU:HD22	24:d2:11:LEU:HG	1.89	0.54
82:sM:129:UNK:O	82:sM:133:UNK:N	2.40	0.54
36:5:1221:A:H3'	36:5:1222:G:H5'	1.89	0.54
36:5:1258:U:O2	36:5:1260:A:H8	1.90	0.54
36:5:1309:U:H5''	36:5:1311:G:OP1	2.08	0.54
36:5:2178:A:H3'	39:l2:132:ASN:ND2	2.23	0.54
36:5:2249:G:N7	36:5:2272:G:C8	2.75	0.54
36:5:3362:A:C2	36:5:3363:U:C2	2.95	0.54
43:l6:171:PRO:C	43:l6:173:MET:H	2.15	0.54
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.42	0.54
51:m5:46:ASP:OD1	51:m5:50:ARG:NH2	2.40	0.54
52:m6:58:LEU:HA	52:m6:72:HIS:CD2	2.43	0.54
54:m8:109:GLY:O	54:m8:113:LYS:HB2	2.07	0.54
62:n6:60:ARG:HB2	62:n6:103:LYS:HB3	1.89	0.54
70:o4:42:PRO:HD3	70:o4:56:THR:HG22	1.89	0.54
73:o7:2:GLY:O	73:o7:7:SER:HB3	2.08	0.54
76:q0:103:LEU:HD21	76:q0:111:ARG:H	1.72	0.54
1:2:1460:A:H5'	1:2:1461:C:OP2	2.07	0.54
11:S9:175:ARG:HD3	11:S9:179:ARG:CZ	2.38	0.54
20:C8:127:HIS:NE2	20:C8:133:VAL:HG21	2.23	0.54
36:1:213:A:OP1	62:N6:2:ALA:N	2.41	0.54
36:1:290:G:H4'	51:M5:69:GLY:O	2.07	0.54
36:1:906:A:OP1	87:1:3538:OHX:N1	2.40	0.54
36:1:994:G:H3'	57:N1:13:TYR:CD2	2.43	0.54
36:1:1307:G:H1'	36:1:1308:A:C8	2.42	0.54
36:1:1580:A:OP1	39:L2:68:LYS:NZ	2.40	0.54
36:1:1807:G:C6	36:1:1808:G:N1	2.75	0.54
45:L8:245:LYS:HZ3	45:L8:249:ARG:NH2	2.06	0.54
63:N7:15:ARG:NH2	70:O4:83:ASN:OD1	2.40	0.54
80:6:194:U:O2	80:6:195:G:O2'	2.23	0.54
8:s6:116:LYS:NZ	8:s6:125:THR:HG21	2.22	0.54
9:s7:46:ILE:HG12	9:s7:60:ILE:HG23	1.89	0.54
25:d3:53:VAL:HG12	25:d3:98:GLU:HA	1.88	0.54
36:5:334:A:H2'	36:5:335:G:C8	2.42	0.54
36:5:567:G:H2'	36:5:568:G:C8	2.42	0.54
36:5:663:C:H2'	36:5:664:U:C6	2.42	0.54
36:5:1070:U:C4	36:5:1071:U:C4	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1443:G:O6	87:5:3511:OHX:N5	2.41	0.54
36:5:1751:G:O6	74:o8:44:LYS:NZ	2.27	0.54
36:5:2609:A:H2'	36:5:2610:G:H8	1.72	0.54
36:5:3274:A:H3'	36:5:3275:U:C5'	2.36	0.54
39:l2:82:VAL:HA	39:l2:86:GLN:OE1	2.07	0.54
44:l7:191:VAL:HG12	44:l7:192:GLY:H	1.72	0.54
51:m5:99:ARG:HG3	51:m5:130:PHE:CE1	2.43	0.54
53:m7:29:THR:HG22	53:m7:87:SER:OG	2.08	0.54
56:n0:51:VAL:HG12	56:n0:52:LYS:O	2.08	0.54
1:2:556:A:N3	1:2:590:C:H1'	2.22	0.54
1:2:1294:G:O2'	1:2:1321:A:N1	2.39	0.54
9:S7:46:ILE:HD13	9:S7:59:ALA:O	2.08	0.54
36:1:343:U:O2	36:1:1439:U:H1'	2.07	0.54
36:1:2892:A:N6	36:1:2909:U:H3	2.06	0.54
36:1:2997:G:O6	87:1:3714:OHX:N5	2.40	0.54
87:1:4509:OHX:N6	38:4:43:A:OP1	2.41	0.54
38:4:86:U:H2'	71:O5:7:TYR:HE2	1.72	0.54
42:L5:34:LYS:O	42:L5:38:THR:HG23	2.08	0.54
44:L7:84:VAL:HG11	44:L7:127:LEU:HD11	1.90	0.54
44:L7:160:ARG:HG3	44:L7:203:TRP:CG	2.42	0.54
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.88	0.54
67:O1:30:PRO:HD3	67:O1:60:TRP:CH2	2.42	0.54
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.07	0.54
72:O6:5:THR:HG23	72:O6:12:ASN:O	2.07	0.54
72:O6:25:LYS:HB2	72:O6:28:TYR:CD2	2.34	0.54
75:O9:30:ARG:HB2	75:O9:33:ASN:HB2	1.90	0.54
80:6:698:U:O4	87:6:1928:OHX:N3	2.41	0.54
80:6:793:A:OP2	80:6:793:A:C8	2.60	0.54
80:6:959:U:OP2	29:d7:20:LYS:NZ	2.39	0.54
80:6:1304:G:H5'	80:6:1322:A:OP2	2.07	0.54
80:6:1481:C:O2'	80:6:1482:C:O5'	2.23	0.54
80:6:1700:C:O2'	80:6:1701:A:OP1	2.26	0.54
80:6:1785:U:OP1	16:c4:136:ARG:NH1	2.41	0.54
7:s5:146:THR:HG23	7:s5:157:ARG:HB3	1.89	0.54
11:s9:88:GLU:O	11:s9:91:LYS:HD2	2.08	0.54
18:c6:133:GLY:HA3	18:c6:136:SER:HB3	1.90	0.54
31:d9:19:ARG:HD3	31:d9:32:ARG:HD2	1.90	0.54
36:5:215:G:OP1	62:n6:12:ARG:HG2	2.08	0.54
36:5:352:A:H4'	36:5:353:G:OP1	2.05	0.54
36:5:851:C:H2'	36:5:852:U:H6	1.72	0.54
36:5:1334:U:H5''	44:l7:206:LYS:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1825:G:OP1	74:o8:49:SER:OG	2.25	0.54
36:5:2586:G:C5	45:l8:241:LYS:HB2	2.43	0.54
36:5:2938:G:N7	40:l3:3:HIS:HB2	2.22	0.54
50:m4:55:ARG:HD3	56:n0:70:THR:OG1	2.08	0.54
58:n2:43:VAL:O	58:n2:45:GLY:N	2.40	0.54
61:n5:103:TYR:O	61:n5:105:VAL:HG23	2.08	0.54
64:n8:7:LYS:C	64:n8:9:ARG:N	2.65	0.54
73:o7:25:ARG:HG3	75:o9:51:ILE:HG13	1.90	0.54
75:o9:42:ARG:HG2	75:o9:42:ARG:NH1	2.22	0.54
1:2:399:A:N3	6:S4:3:ARG:NH1	2.56	0.54
1:2:816:G:N2	9:S7:110:GLN:OE1	2.27	0.54
1:2:1229:G:O2'	1:2:1255:G:N2	2.41	0.54
1:2:1536:G:C2	1:2:1538:U:C2	2.95	0.54
1:2:1591:C:H2'	1:2:1592:A:H8	1.73	0.54
1:2:1637:C:OP2	87:2:1995:OHX:N5	2.40	0.54
1:2:1645:G:H2'	1:2:1646:C:H6	1.73	0.54
1:2:1657:U:H4'	1:2:1658:G:O5'	2.08	0.54
2:S0:69:ASN:HB3	2:S0:71:GLU:OE2	2.08	0.54
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.90	0.54
4:S2:90:THR:O	4:S2:92:ALA:N	2.40	0.54
6:S4:240:LYS:HE2	6:S4:240:LYS:N	2.23	0.54
24:D2:105:THR:OG1	24:D2:126:LEU:HG	2.08	0.54
29:D7:2:VAL:O	29:D7:3:LEU:HB2	2.08	0.54
36:1:359:U:HO2'	73:O7:16:HIS:CE1	2.25	0.54
36:1:2736:A:O3'	57:N1:71:SER:OG	2.26	0.54
36:1:3128:G:OP2	87:1:3725:OHX:N6	2.40	0.54
41:L4:264:SER:C	41:L4:266:THR:H	2.16	0.54
55:M9:27:ASN:O	87:M9:203:OHX:N6	2.41	0.54
58:N2:22:PRO:HG3	58:N2:93:ILE:HG21	1.88	0.54
61:N5:115:ARG:O	61:N5:117:ASN:N	2.37	0.54
80:6:138:A:H5''	80:6:138:A:N3	2.22	0.54
80:6:325:G:O2'	80:6:326:G:H5'	2.07	0.54
80:6:959:U:H4'	15:c3:16:ILE:HD12	1.90	0.54
6:s4:121:TYR:CE2	6:s4:161:LYS:HE3	2.43	0.54
9:s7:185:ILE:HG22	9:s7:186:PRO:HD2	1.89	0.54
11:s9:129:ILE:HA	11:s9:134:ILE:CG1	2.37	0.54
13:c1:131:ILE:HG22	13:c1:132:SER:HB3	1.90	0.54
23:d1:58:TYR:OH	24:d2:20:THR:HA	2.08	0.54
26:d4:27:VAL:HG21	26:d4:40:LEU:HD21	1.89	0.54
36:5:1262:G:H5''	36:5:1263:A:OP2	2.07	0.54
36:5:2518:C:H2'	36:5:2519:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2894:C:H2'	36:5:2895:G:C8	2.43	0.54
40:l3:76:VAL:HG11	40:l3:323:MET:HE3	1.90	0.54
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	1.89	0.54
52:m6:12:LYS:HB3	56:n0:167:ARG:HH22	1.71	0.54
1:2:1371:A:OP1	1:2:1371:A:H8	1.90	0.54
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.07	0.54
7:S5:51:VAL:HA	7:S5:131:GLN:OE1	2.07	0.54
8:S6:24:ILE:C	8:S6:26:VAL:H	2.15	0.54
34:SR:67:ILE:HB	34:SR:85:TRP:CD1	2.42	0.54
36:1:395:A:H2'	36:1:396:A:C8	2.43	0.54
36:1:532:A:H2	36:1:560:G:H22	1.53	0.54
36:1:835:G:O2'	36:1:857:G:N2	2.32	0.54
36:1:980:A:H2'	36:1:981:U:N1	2.22	0.54
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.56	0.54
36:1:1235:U:H4'	36:1:1236:G:H5'	1.90	0.54
36:1:1888:U:OP1	40:L3:247:ARG:NH1	2.40	0.54
36:1:2842:U:C5	36:1:2843:U:C4	2.95	0.54
36:1:3033:A:H2'	36:1:3034:C:H6	1.73	0.54
36:1:3276:G:H1	69:O3:60:ARG:NH2	2.05	0.54
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.43	0.54
47:M0:82:ARG:NH1	47:M0:83:ASP:OD1	2.41	0.54
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.08	0.54
80:6:219:A:N6	80:6:843:U:C2	2.76	0.54
80:6:404:G:H2'	80:6:405:C:C6	2.42	0.54
3:s1:163:ALA:O	3:s1:167:VAL:HG23	2.08	0.54
4:s2:178:ILE:HG21	4:s2:185:LYS:HA	1.90	0.54
8:s6:20:ASP:OD2	8:s6:23:ARG:HG3	2.08	0.54
8:s6:102:VAL:HG13	8:s6:106:LEU:HD12	1.88	0.54
16:c4:81:VAL:HG13	16:c4:115:ILE:HG23	1.89	0.54
18:c6:129:PHE:CE1	22:d0:78:THR:HA	2.43	0.54
22:d0:32:LYS:HA	22:d0:35:GLU:HB2	1.89	0.54
26:d4:29:HIS:HB2	26:d4:32:ARG:HB2	1.89	0.54
28:d6:11:ASN:O	28:d6:33:ASP:HB2	2.08	0.54
33:e1:100:LEU:HD12	33:e1:102:VAL:HA	1.89	0.54
34:sR:19:TRP:HB2	34:sR:38:ARG:HG3	1.88	0.54
36:5:247:C:C2	36:5:248:U:H1'	2.42	0.54
36:5:627:U:H4'	36:5:1399:A:O2'	2.08	0.54
36:5:860:G:O5'	39:l2:181:LYS:NZ	2.40	0.54
36:5:1036:A:H2'	36:5:1037:C:O4'	2.08	0.54
36:5:1716:U:H5'	36:5:1716:U:H6	1.71	0.54
36:5:2222:A:O5'	36:5:2222:A:H8	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2777:G:H5''	36:5:2778:G:OP1	2.08	0.54
36:5:3263:G:O6	87:5:3622:OHX:N2	2.40	0.54
87:5:3608:OHX:N1	40:l3:30:LYS:O	2.41	0.54
38:8:72:A:H4'	62:n6:75:ARG:NH2	2.23	0.54
39:l2:149:ARG:HH22	39:l2:253:GLN:HA	1.73	0.54
41:l4:10:SER:OG	41:l4:14:GLU:HG2	2.08	0.54
41:l4:141:ARG:CZ	41:l4:180:LYS:HD3	2.38	0.54
48:m1:9:MET:O	48:m1:11:ASP:N	2.41	0.54
53:m7:67:ILE:HD12	53:m7:82:ARG:CZ	2.38	0.54
67:o1:80:ASN:HD21	67:o1:85:ALA:HB3	1.72	0.54
76:q0:78:ILE:HD11	76:q0:83:LYS:CA	2.38	0.54
1:2:218:A:O2'	1:2:219:A:OP1	2.24	0.54
1:2:501:U:HO2'	1:2:502:U:H6	1.54	0.54
1:2:1354:G:H5'	1:2:1355:C:OP2	2.07	0.54
1:2:1433:G:H2'	1:2:1434:U:C6	2.42	0.54
1:2:1487:A:OP1	31:D9:34:TYR:OH	2.23	0.54
5:S3:38:GLU:OE1	5:S3:40:ARG:NE	2.41	0.54
11:S9:114:TYR:HD1	11:S9:121:SER:H	1.55	0.54
17:C5:110:GLU:HB2	20:C8:119:ILE:HD11	1.89	0.54
28:D6:36:ILE:HG21	28:D6:78:ALA:HB2	1.89	0.54
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.26	0.54
36:1:424:G:O2'	68:O2:23:ASP:OD2	2.22	0.54
36:1:715:A:H5''	64:N8:114:GLY:O	2.08	0.54
36:1:1680:G:H2'	36:1:1681:U:C6	2.43	0.54
36:1:2352:A:OP1	53:M7:82:ARG:HG2	2.08	0.54
40:L3:41:VAL:HG22	40:L3:194:TRP:CD1	2.43	0.54
41:L4:41:SER:HA	41:L4:44:LYS:HD2	1.90	0.54
41:L4:138:ARG:HH11	41:L4:138:ARG:HB3	1.71	0.54
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.43	0.54
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.89	0.54
80:6:1405:G:H2'	80:6:1406:A:H8	1.72	0.54
7:s5:57:SER:HA	30:d8:53:ILE:HB	1.90	0.54
13:c1:66:ILE:HD13	13:c1:128:CYS:HB3	1.90	0.54
22:d0:33:GLN:O	22:d0:37:VAL:HG23	2.08	0.54
34:sR:184:ASN:HD22	34:sR:185:GLN:N	2.04	0.54
36:5:184:U:H2'	36:5:185:C:H6	1.73	0.54
36:5:742:G:O6	87:5:3792:OHX:N2	2.41	0.54
36:5:1334:U:H1'	44:l7:208:SER:HB2	1.88	0.54
36:5:1846:C:N4	53:m7:134:GLY:O	2.39	0.54
36:5:1873:U:P	55:m9:56:THR:HG23	2.48	0.54
36:5:3238:G:N2	36:5:3250:U:H1'	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:110:G:C6	37:7:111:U:C4	2.96	0.54
38:8:42:G:OP1	73:o7:60:GLY:N	2.40	0.54
52:m6:121:PRO:O	52:m6:124:LEU:HB2	2.08	0.54
62:n6:50:ILE:HD12	62:n6:70:ILE:HG12	1.89	0.54
1:2:577:G:H3'	1:2:577:G:C8	2.43	0.54
1:2:1370:U:O4	87:2:2003:OHX:N3	2.41	0.54
1:2:1469:A:H2'	1:2:1470:C:C6	2.43	0.54
3:S1:129:THR:HB	3:S1:180:THR:HA	1.89	0.54
6:S4:130:GLN:HB2	6:S4:138:TYR:CZ	2.42	0.54
6:S4:163:ASP:HB3	6:S4:166:SER:O	2.08	0.54
36:1:735:A:H2'	36:1:736:A:H8	1.73	0.54
36:1:1565:G:H1'	36:1:1575:A:C2	2.43	0.54
36:1:1832:C:H2'	36:1:1833:G:H8	1.73	0.54
36:1:1878:G:OP1	87:1:3464:OHX:N4	2.40	0.54
36:1:2343:C:H2'	36:1:2344:U:H6	1.72	0.54
36:1:2582:C:H2'	36:1:2583:C:C6	2.43	0.54
36:1:3018:C:H2'	36:1:3019:U:O4'	2.08	0.54
36:1:3228:C:H4'	36:1:3229:G:O5'	2.07	0.54
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	1.89	0.54
40:L3:62:ARG:O	40:L3:64:GLY:N	2.40	0.54
43:L6:80:ASN:HB3	43:L6:83:TYR:HD2	1.73	0.54
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.41	0.54
66:O0:56:LEU:O	66:O0:60:ALA:N	2.39	0.54
72:O6:51:SER:O	72:O6:54:GLU:N	2.38	0.54
80:6:1369:U:O4	87:6:1939:OHX:N4	2.41	0.54
5:s3:209:ILE:HG22	19:c7:38:ILE:O	2.08	0.54
15:c3:119:GLU:HG2	15:c3:141:TYR:CE2	2.43	0.54
16:c4:85:ALA:HB2	16:c4:94:PRO:HA	1.89	0.54
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.43	0.54
36:5:283:G:O6	36:5:304:G:H1'	2.08	0.54
36:5:1086:C:H1'	65:n9:47:LEU:HD21	1.89	0.54
38:8:145:U:H2'	38:8:146:U:H6	1.71	0.54
40:l3:117:ARG:NH2	40:l3:176:ALA:O	2.35	0.54
43:l6:31:ARG:HH11	69:o3:107:ILE:C	2.16	0.54
45:l8:73:PRO:HA	45:l8:76:ALA:HB3	1.90	0.54
53:m7:23:ARG:HE	53:m7:125:GLN:HG3	1.73	0.54
53:m7:41:LEU:HD11	53:m7:99:ALA:HB2	1.89	0.54
59:n3:89:ASP:OD1	59:n3:89:ASP:C	2.51	0.54
64:n8:126:LYS:HA	64:n8:146:GLU:O	2.07	0.54
66:o0:9:SER:OG	66:o0:12:GLN:HB3	2.07	0.54
1:2:194:U:O2'	1:2:195:G:O4'	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:393:C:H2'	1:2:394:C:C6	2.43	0.54
1:2:1151:A:H4'	1:2:1766:A:N7	2.22	0.54
10:S8:58:LEU:O	10:S8:59:ARG:HB2	2.07	0.54
36:1:249:U:O2	36:1:250:U:N3	2.31	0.54
36:1:830:A:H2'	36:1:831:G:O4'	2.08	0.54
36:1:2782:U:H2'	36:1:2783:U:H6	1.73	0.54
36:1:2950:G:N7	87:1:3753:OHX:N2	2.56	0.54
38:4:62:C:H4'	38:4:63:G:O5'	2.08	0.54
41:L4:23:PRO:O	41:L4:25:VAL:HG23	2.07	0.54
43:L6:76:LEU:HD11	43:L6:141:VAL:HG21	1.90	0.54
54:M8:151:ARG:O	54:M8:161:LYS:HD2	2.07	0.54
60:N4:23:ARG:NH2	60:N4:27:LYS:HD3	2.23	0.54
80:6:186:C:OP1	10:s8:146:ARG:NH2	2.33	0.54
80:6:560:U:H2'	80:6:561:G:C8	2.42	0.54
80:6:584:C:H1'	32:e0:18:THR:HG21	1.89	0.54
80:6:729:G:C8	87:6:2058:OHX:N5	2.77	0.54
80:6:825:U:O2'	80:6:826:U:P	2.66	0.54
80:6:1696:G:H2'	80:6:1698:G:O6	2.08	0.54
6:s4:181:VAL:HG21	6:s4:195:ILE:HD11	1.90	0.54
20:c8:4:VAL:HG12	27:d5:42:LEU:HD11	1.89	0.54
36:5:73:C:O2	49:m3:59:ARG:HD3	2.08	0.54
36:5:391:A:OP2	87:5:3806:OHX:N2	2.41	0.54
36:5:2662:G:H2'	36:5:2663:G:H8	1.71	0.54
36:5:2992:U:H1'	53:m7:69:ARG:NH2	2.23	0.54
36:5:3155:U:H3'	36:5:3156:U:H5''	1.89	0.54
42:l5:155:THR:HA	42:l5:179:ARG:HA	1.90	0.54
65:n9:14:ARG:HH12	65:n9:18:ARG:HH11	1.56	0.54
72:o6:79:SER:OG	72:o6:82:ARG:HG3	2.08	0.54
36:1:29:C:H4'	36:1:62:A:H4'	1.89	0.53
36:1:270:U:O2'	36:1:318:A:H1'	2.08	0.53
36:1:830:A:OP2	87:1:3549:OHX:N4	2.41	0.53
36:1:993:G:C5	36:1:2637:A:C2	2.96	0.53
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.33	0.53
36:1:1556:C:H5''	36:1:2169:G:H22	1.72	0.53
36:1:2199:G:H2'	36:1:2200:U:H6	1.73	0.53
36:1:2225:U:H2'	36:1:2226:U:C6	2.43	0.53
36:1:2898:G:H5''	36:1:2899:C:C5'	2.37	0.53
36:1:3049:A:C4	40:L3:75:ALA:HB2	2.43	0.53
37:3:9:C:H2'	37:3:10:C:H5'	1.90	0.53
46:L9:4:ILE:HG22	56:N0:142:GLN:CD	2.34	0.53
70:O4:19:LYS:NZ	70:O4:37:LYS:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:567:A:H4'	32:e0:13:LYS:HB2	1.90	0.53
80:6:1230:A:H2'	80:6:1258:U:C5	2.43	0.53
80:6:1358:G:H2'	80:6:1359:C:C6	2.43	0.53
3:s1:135:LEU:HD22	3:s1:215:VAL:HG23	1.88	0.53
6:s4:141:THR:OG1	6:s4:145:ARG:HB2	2.08	0.53
8:s6:174:LYS:O	8:s6:175:ILE:C	2.51	0.53
8:s6:175:ILE:HB	8:s6:178:LEU:HD22	1.90	0.53
10:s8:8:ARG:HE	10:s8:22:ARG:NH1	2.05	0.53
24:d2:7:LEU:HD11	24:d2:37:PHE:CD2	2.43	0.53
36:5:2249:G:C8	36:5:2272:G:C8	2.96	0.53
36:5:2550:U:C6	45:l8:37:GLY:HA3	2.44	0.53
36:5:2651:G:H4'	36:5:2652:U:OP2	2.07	0.53
36:5:2656:A:H4'	36:5:2657:A:OP1	2.07	0.53
36:5:2704:A:OP2	87:5:3401:OHX:N2	2.41	0.53
38:8:16:G:O6	87:8:202:OHX:N6	2.41	0.53
46:l9:86:TYR:CE2	46:l9:151:VAL:HG22	2.43	0.53
49:m3:131:LYS:HD3	49:m3:131:LYS:H	1.72	0.53
62:n6:118:LEU:O	62:n6:122:LYS:HG3	2.07	0.53
67:o1:8:VAL:HG12	67:o1:9:THR:H	1.73	0.53
69:o3:6:ARG:HG3	69:o3:8:TYR:CE1	2.43	0.53
79:q3:84:ARG:HG3	79:q3:87:ARG:NH2	2.23	0.53
1:2:598:U:H2'	1:2:599:A:C8	2.43	0.53
1:2:916:U:H3	16:C4:41:ARG:NH2	2.06	0.53
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.38	0.53
22:D0:22:ILE:HD12	22:D0:118:VAL:HA	1.89	0.53
28:D6:37:LYS:O	28:D6:38:ARG:HD2	2.08	0.53
36:1:225:C:H5'	62:N6:34:PRO:HD3	1.91	0.53
36:1:357:A:H1'	41:L4:80:GLY:O	2.08	0.53
36:1:816:A:H1'	36:1:819:U:O4	2.08	0.53
36:1:973:A:P	54:M8:12:ARG:HH12	2.31	0.53
36:1:1107:C:H2'	36:1:1108:U:H6	1.72	0.53
36:1:1181:U:H2'	52:M6:122:GLN:NE2	2.23	0.53
36:1:1429:G:C6	41:L4:99:MET:HE2	2.44	0.53
36:1:1593:A:N3	36:1:1615:C:O2'	2.40	0.53
36:1:2400:G:H5''	36:1:2401:A:OP2	2.09	0.53
36:1:2522:G:O6	39:L2:70:ARG:NH2	2.41	0.53
39:L2:187:HIS:ND1	39:L2:190:ARG:NH2	2.56	0.53
44:L7:222:HIS:CE1	44:L7:224:ILE:HG13	2.43	0.53
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.08	0.53
47:M0:218:ALA:N	87:M0:303:OHX:N3	2.55	0.53
73:O7:14:LYS:HE2	75:O9:51:ILE:HG13	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:310:C:OP1	25:d3:20:ARG:HD2	2.08	0.53
80:6:325:G:H4'	13:c1:83:THR:HG21	1.89	0.53
80:6:776:G:N2	80:6:785:U:H1'	2.23	0.53
80:6:868:G:H1	80:6:960:U:H3	1.57	0.53
80:6:1332:C:H4'	5:s3:203:PRO:CB	2.38	0.53
80:6:1382:A:O2'	80:6:1383:G:H5''	2.07	0.53
3:s1:169:SER:O	3:s1:173:THR:OG1	2.26	0.53
6:s4:35:PRO:HB3	6:s4:143:ASP:O	2.08	0.53
9:s7:184:GLU:HG2	9:s7:185:ILE:H	1.72	0.53
11:s9:54:ARG:HD2	11:s9:55:ALA:N	2.23	0.53
13:c1:34:TRP:CZ2	13:c1:36:LYS:HB3	2.42	0.53
36:5:2809:C:N3	36:5:2810:C:H1'	2.23	0.53
36:5:3279:A:N6	36:5:3280:U:O4	2.41	0.53
37:7:99:G:OP1	56:n0:53:LYS:HD3	2.09	0.53
41:l4:10:SER:OG	41:l4:13:GLY:O	2.21	0.53
47:m0:42:THR:HG23	47:m0:45:GLU:HG3	1.90	0.53
49:m3:85:LEU:HD13	49:m3:120:GLN:NE2	2.23	0.53
55:m9:43:LYS:HA	55:m9:43:LYS:HE3	1.89	0.53
57:n1:56:PHE:CZ	57:n1:78:LYS:HD3	2.43	0.53
68:o2:111:ARG:HG3	68:o2:115:LEU:HD12	1.89	0.53
1:2:45:U:O2'	1:2:46:A:H2'	2.07	0.53
1:2:46:A:N6	1:2:433:C:H4'	2.24	0.53
1:2:491:C:H42	1:2:496:G:H1	1.54	0.53
1:2:1469:A:H4'	1:2:1541:G:H4'	1.89	0.53
1:2:1795:U:O2	28:D6:10:ARG:HD2	2.09	0.53
2:S0:9:LEU:HD22	2:S0:10:THR:H	1.71	0.53
2:S0:35:PRO:C	2:S0:37:VAL:H	2.15	0.53
11:S9:13:SER:HB3	11:S9:47:PHE:CD1	2.44	0.53
13:C1:6:THR:O	13:C1:8:GLN:N	2.38	0.53
22:D0:117:VAL:HG13	22:D0:118:VAL:H	1.73	0.53
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	1.90	0.53
27:D5:57:TYR:HB3	27:D5:60:VAL:HG12	1.89	0.53
36:1:651:G:O2'	36:1:1435:A:OP1	2.23	0.53
36:1:953:G:C8	36:1:1117:G:C8	2.96	0.53
36:1:1478:C:N3	36:1:1875:G:N1	2.41	0.53
36:1:1700:G:H2'	36:1:1701:C:C6	2.43	0.53
36:1:2656:A:C8	36:1:2658:G:C8	2.96	0.53
36:1:2814:G:N7	87:1:3733:OHX:N4	2.56	0.53
36:1:2921:U:C2	36:1:2923:U:H5''	2.44	0.53
36:1:3181:C:O2'	52:M6:164:SER:OG	2.25	0.53
46:L9:41:ILE:O	46:L9:42:ASP:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.38	0.53
51:M5:15:GLN:HB3	72:O6:51:SER:HB2	1.90	0.53
58:N2:43:VAL:HB	58:N2:49:ASN:HB3	1.90	0.53
59:N3:17:LEU:HD13	59:N3:36:ILE:HD11	1.89	0.53
61:N5:91:ASN:OD1	61:N5:91:ASN:N	2.41	0.53
61:N5:100:LYS:NZ	61:N5:107:VAL:H	2.07	0.53
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.91	0.53
80:6:263:C:H4'	80:6:292:U:H5'	1.89	0.53
80:6:445:A:H61	80:6:462:G:H1'	1.74	0.53
80:6:1620:C:H2'	80:6:1621:U:H6	1.72	0.53
2:s0:74:VAL:HG12	2:s0:76:ILE:HG13	1.89	0.53
3:s1:101:HIS:HA	3:s1:217:LEU:HD22	1.90	0.53
5:s3:202:LEU:O	5:s3:204:ASP:N	2.40	0.53
22:d0:58:LEU:CD1	22:d0:88:LYS:HD2	2.39	0.53
30:d8:19:THR:HG21	30:d8:66:LEU:H	1.73	0.53
36:5:398:A:N7	53:m7:3:ARG:NH2	2.57	0.53
36:5:938:C:C5	64:n8:26:ARG:HD2	2.44	0.53
36:5:1076:C:H4'	65:n9:38:LYS:HD3	1.90	0.53
36:5:1456:A:H4'	36:5:1457:U:O5'	2.09	0.53
37:7:92:A:H5''	37:7:93:C:OP2	2.08	0.53
41:l4:8:VAL:HB	41:l4:16:THR:HG21	1.91	0.53
48:m1:82:ARG:HB3	48:m1:112:LEU:HB2	1.91	0.53
48:m1:92:ARG:HH22	48:m1:94:ARG:NH1	2.06	0.53
49:m3:80:VAL:HG12	49:m3:85:LEU:O	2.08	0.53
51:m5:73:ARG:O	51:m5:75:VAL:N	2.38	0.53
61:n5:132:ALA:HA	61:n5:135:ILE:HG22	1.90	0.53
64:n8:133:LEU:HD13	64:n8:137:LYS:HE2	1.90	0.53
68:o2:19:ARG:HB2	68:o2:31:ASN:O	2.08	0.53
75:o9:23:LEU:HD11	75:o9:35:ILE:HG22	1.90	0.53
84:p0:81:LYS:H	84:p0:84:VAL:HG21	1.73	0.53
1:2:17:C:H2'	1:2:18:C:H6	1.71	0.53
1:2:319:U:H1'	1:2:323:A:C4	2.43	0.53
1:2:633:U:HO2'	1:2:1102:G:H4'	1.73	0.53
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.08	0.53
4:S2:177:GLY:N	4:S2:195:ASP:OD1	2.38	0.53
5:S3:168:ILE:HA	5:S3:188:ILE:O	2.08	0.53
7:S5:152:GLY:O	7:S5:154:ALA:N	2.42	0.53
20:C8:99:HIS:O	20:C8:101:LEU:HG	2.08	0.53
25:D3:107:PHE:CE1	25:D3:123:LYS:HB3	2.44	0.53
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.91	0.53
36:1:107:A:H1'	36:1:325:A:N3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:223:U:OP1	36:1:225:C:N4	2.37	0.53
36:1:415:G:H2'	36:1:416:A:C8	2.43	0.53
36:1:685:G:P	49:M3:35:ARG:NH1	2.81	0.53
36:1:2697:A:H2'	36:1:2698:G:C8	2.43	0.53
37:3:93:C:C2'	37:3:94:C:H5'	2.39	0.53
47:M0:169:LYS:NZ	57:N1:159:PHE:H	2.05	0.53
56:N0:12:ARG:O	56:N0:13:ARG:C	2.51	0.53
59:N3:123:ALA:C	59:N3:125:LEU:H	2.16	0.53
60:N4:4:GLU:HG2	60:N4:30:ARG:CD	2.39	0.53
80:6:1263:G:H2'	80:6:1264:G:O4'	2.07	0.53
80:6:1389:C:O2'	19:c7:52:GLY:HA3	2.08	0.53
80:6:1699:G:N2	80:6:1702:A:O4'	2.41	0.53
7:s5:156:ARG:HA	7:s5:157:ARG:NH2	2.22	0.53
15:c3:137:PRO:HB2	15:c3:138:ASN:OD1	2.08	0.53
17:c5:22:LEU:HD23	17:c5:23:GLU:H	1.73	0.53
19:c7:29:GLN:HG2	34:sR:67:ILE:HD11	1.88	0.53
36:5:54:C:O2'	36:5:1547:G:O2'	2.22	0.53
36:5:741:U:O4	87:5:3753:OHX:N4	2.42	0.53
36:5:1080:A:OP1	42:l5:140:ARG:NH2	2.42	0.53
36:5:1138:U:H2'	36:5:1139:G:O4'	2.08	0.53
36:5:1238:C:H2'	36:5:1239:C:O4'	2.08	0.53
36:5:2317:A:OP2	87:5:3704:OHX:N6	2.41	0.53
36:5:2376:G:H2'	36:5:2377:G:C8	2.44	0.53
36:5:2785:A:O2'	78:q2:41:ARG:NH2	2.41	0.53
36:5:2984:C:H2'	36:5:2985:C:C6	2.44	0.53
37:7:47:C:H2'	37:7:48:U:C6	2.41	0.53
41:l4:144:LYS:HD2	41:l4:144:LYS:H	1.73	0.53
48:m1:18:VAL:HG22	48:m1:70:THR:HG23	1.89	0.53
83:m2:80:UNK:O	83:m2:84:UNK:N	2.41	0.53
49:m3:123:ILE:HG22	71:o5:118:ILE:HG12	1.90	0.53
52:m6:8:VAL:HG13	52:m6:34:VAL:HG22	1.91	0.53
63:n7:95:VAL:HG21	63:n7:113:VAL:HG11	1.90	0.53
74:o8:8:ILE:H	74:o8:8:ILE:HD12	1.73	0.53
1:2:1142:A:H2'	1:2:1143:A:C8	2.43	0.53
1:2:1547:A:H5'	20:C8:112:ASP:OD2	2.09	0.53
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.43	0.53
8:S6:163:THR:HA	8:S6:168:THR:HA	1.91	0.53
12:C0:30:ALA:O	12:C0:38:LYS:HA	2.09	0.53
17:C5:84:ILE:HG23	17:C5:113:GLY:HA2	1.91	0.53
22:D0:28:SER:OG	22:D0:29:THR:N	2.35	0.53
23:D1:41:GLU:CD	23:D1:41:GLU:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:79:ILE:HG23	28:D6:84:VAL:HG11	1.90	0.53
36:1:900:G:H1'	36:1:1589:A:N6	2.22	0.53
36:1:1109:U:H2'	36:1:1110:U:C6	2.43	0.53
36:1:3159:C:H2'	36:1:3160:U:H6	1.72	0.53
37:3:58:C:H2'	37:3:59:U:H6	1.72	0.53
40:L3:348:ARG:N	40:L3:350:ALA:O	2.41	0.53
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.08	0.53
42:L5:40:HIS:CE1	57:N1:69:LYS:HB2	2.43	0.53
44:L7:191:VAL:O	44:L7:191:VAL:HG12	2.08	0.53
46:L9:47:LYS:HZ2	50:M4:5:SER:H	1.55	0.53
50:M4:89:ALA:O	50:M4:93:LYS:HE3	2.09	0.53
62:N6:36:SER:HB2	62:N6:37:LYS:HE2	1.89	0.53
80:6:413:U:H2'	80:6:414:C:C6	2.44	0.53
80:6:868:G:O6	87:6:1912:OHX:N5	2.41	0.53
80:6:1031:U:H4'	80:6:1032:G:OP2	2.09	0.53
3:s1:82:ARG:HH12	3:s1:191:GLU:HG2	1.73	0.53
7:s5:75:GLY:O	18:c6:122:ARG:NH2	2.42	0.53
16:c4:13:VAL:HG23	16:c4:77:THR:H	1.72	0.53
36:5:1616:U:H2'	36:5:1617:G:H8	1.73	0.53
36:5:2812:C:H2'	36:5:2813:A:C8	2.43	0.53
36:5:2984:C:H2'	36:5:2985:C:H6	1.72	0.53
37:7:79:A:C2	37:7:102:A:C4	2.96	0.53
40:l3:142:ALA:O	40:l3:146:ARG:N	2.42	0.53
44:l7:145:ARG:HA	44:l7:185:ILE:HD13	1.90	0.53
45:l8:53:PRO:HD2	45:l8:56:VAL:HG21	1.90	0.53
49:m3:106:GLN:HA	72:o6:20:MET:SD	2.49	0.53
1:2:1002:G:C2'	1:2:1003:A:H5'	2.38	0.53
1:2:1135:U:O4	25:D3:112:LYS:NZ	2.41	0.53
1:2:1139:A:H5''	1:2:1140:G:OP2	2.09	0.53
1:2:1235:C:O2	33:E1:138:ARG:NE	2.41	0.53
1:2:1291:G:H8	1:2:1291:G:O5'	1.91	0.53
1:2:1291:G:H2'	1:2:1292:G:H8	1.73	0.53
2:S0:193:GLN:C	2:S0:195:TRP:H	2.16	0.53
3:S1:48:VAL:CG1	3:S1:61:LEU:HD21	2.37	0.53
5:S3:94:ARG:NE	5:S3:125:TYR:OH	2.35	0.53
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.41	0.53
14:C2:62:LEU:HB2	14:C2:120:VAL:HG22	1.89	0.53
22:D0:96:PRO:HG2	22:D0:99:ILE:HG22	1.91	0.53
25:D3:23:ARG:HB3	25:D3:29:TYR:CD1	2.43	0.53
36:1:55:G:N2	51:M5:161:ALA:O	2.28	0.53
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.90	0.53
45:L8:162:LEU:HA	51:M5:7:LEU:HD11	1.91	0.53
49:M3:2:ALA:HB3	64:N8:33:GLY:O	2.09	0.53
53:M7:27:LYS:HA	53:M7:63:PHE:CD2	2.43	0.53
63:N7:11:ALA:HB1	63:N7:80:LEU:HB3	1.89	0.53
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.22	0.53
80:6:206:A:H1'	80:6:262:U:C2	2.44	0.53
80:6:1067:C:H5''	3:s1:150:VAL:HG12	1.91	0.53
80:6:1277:G:C4	80:6:1436:A:C2	2.96	0.53
80:6:1278:G:H2'	80:6:1279:C:O4'	2.09	0.53
2:s0:157:ASP:OD2	23:d1:32:VAL:HG11	2.08	0.53
26:d4:11:LYS:HB2	26:d4:24:VAL:HG23	1.90	0.53
28:d6:71:LEU:HD13	28:d6:73:TYR:OH	2.07	0.53
36:5:938:C:H3'	64:n8:26:ARG:HH12	1.72	0.53
36:5:2750:U:H2'	36:5:2751:G:C8	2.44	0.53
43:l6:69:PHE:O	43:l6:73:GLY:N	2.36	0.53
45:l8:101:THR:HG23	45:l8:104:GLU:CD	2.33	0.53
73:o7:76:ASN:O	73:o7:79:GLN:HG3	2.08	0.53
1:2:1169:G:N1	1:2:1575:G:OP2	2.36	0.53
1:2:1248:C:H2'	1:2:1249:U:C6	2.43	0.53
1:2:1533:C:H4'	1:2:1539:G:N1	2.24	0.53
2:S0:58:VAL:O	2:S0:62:ARG:HB2	2.09	0.53
4:S2:230:TRP:CE2	24:D2:68:ARG:HB3	2.44	0.53
9:S7:126:LEU:HD11	9:S7:181:ILE:HG12	1.91	0.53
36:1:65:A:H4'	36:1:66:A:O5'	2.07	0.53
36:1:1047:A:N3	36:1:2633:U:O2'	2.42	0.53
36:1:1103:A:H62	36:1:1363:A:H1'	1.73	0.53
36:1:1127:G:N2	36:1:1130:A:OP2	2.32	0.53
36:1:1243:G:N2	36:1:1244:A:N7	2.56	0.53
36:1:1317:A:C4	36:1:1319:G:C8	2.97	0.53
87:1:3433:OHX:N2	87:1:3772:OHX:N5	2.57	0.53
40:L3:23:ALA:O	87:L3:401:OHX:N6	2.42	0.53
53:M7:48:LEU:HD12	53:M7:92:GLN:HB3	1.91	0.53
61:N5:81:ILE:HA	61:N5:124:VAL:O	2.09	0.53
80:6:470:A:H8	80:6:470:A:H5''	1.74	0.53
80:6:478:A:O2'	11:s9:124:HIS:HD2	1.92	0.53
80:6:486:G:H22	80:6:501:U:H3	1.57	0.53
80:6:1014:G:OP1	87:6:1903:OHX:N4	2.42	0.53
80:6:1243:G:H2'	17:c5:52:LYS:NZ	2.22	0.53
80:6:1670:G:N7	87:6:2071:OHX:N4	2.57	0.53
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:44:GLY:O	16:c4:59:ALA:HB1	2.09	0.53
20:c8:82:PRO:HG3	21:c9:36:ILE:HD12	1.90	0.53
26:d4:44:LEU:HA	26:d4:47:VAL:HG13	1.90	0.53
34:sR:107:LYS:HB2	34:sR:128:ASP:HB3	1.89	0.53
36:5:759:U:O4	36:5:760:G:N1	2.42	0.53
36:5:822:G:C6	36:5:823:C:C4	2.96	0.53
36:5:1095:U:H3	57:n1:127:GLN:HG3	1.74	0.53
36:5:1614:C:H2'	36:5:1615:C:C6	2.37	0.53
38:8:31:G:OP1	49:m3:34:SER:OG	2.24	0.53
40:l3:14:LEU:HD13	40:l3:262:TRP:CH2	2.44	0.53
43:l6:31:ARG:NH1	69:o3:107:ILE:C	2.66	0.53
47:m0:17:TYR:CE1	47:m0:98:ARG:HD3	2.43	0.53
56:n0:23:LYS:HD2	56:n0:23:LYS:N	2.23	0.53
61:n5:105:VAL:HG13	61:n5:130:TYR:CD2	2.43	0.53
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.09	0.53
78:q2:14:GLY:O	78:q2:18:ARG:HG3	2.08	0.53
1:2:919:A:H5'	16:C4:18:ARG:HH12	1.74	0.53
1:2:1236:A:H1'	33:E1:138:ARG:HH12	1.74	0.53
1:2:1535:U:OP1	1:2:1535:U:H4'	2.09	0.53
4:S2:235:LEU:HD22	23:D1:33:GLN:HE22	1.73	0.53
5:S3:29:LEU:HA	5:S3:32:GLU:OE1	2.09	0.53
6:S4:88:ASP:HA	6:S4:122:LYS:HZ1	1.74	0.53
24:D2:18:GLU:OE2	24:D2:69:LEU:HB3	2.09	0.53
36:1:263:C:H2'	36:1:264:G:O4'	2.08	0.53
36:1:314:U:H2'	36:1:315:C:H6	1.73	0.53
36:1:924:G:OP1	87:1:3698:OHX:N5	2.42	0.53
36:1:944:C:H4'	68:O2:33:ARG:HH11	1.72	0.53
36:1:2395:G:C4'	40:L3:258:ALA:HB1	2.38	0.53
36:1:2609:A:C6	36:1:2610:G:C6	2.96	0.53
36:1:2667:A:C2	36:1:2668:U:H1'	2.44	0.53
37:3:93:C:O2'	37:3:94:C:H5'	2.09	0.53
40:L3:122:TRP:CZ2	40:L3:127:LYS:HD3	2.43	0.53
40:L3:167:ARG:O	87:L3:402:OHX:N4	2.41	0.53
40:L3:169:THR:HG23	40:L3:170:PRO:HD2	1.89	0.53
40:L3:292:ALA:HA	40:L3:303:LYS:O	2.09	0.53
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.89	0.53
42:L5:56:THR:O	42:L5:58:LYS:N	2.37	0.53
47:M0:23:ASN:ND2	47:M0:96:VAL:HG21	2.24	0.53
48:M1:86:VAL:HG22	48:M1:111:ASP:O	2.08	0.53
48:M1:92:ARG:HB2	48:M1:94:ARG:HG2	1.91	0.53
50:M4:15:VAL:HG12	50:M4:38:ILE:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.09	0.53
58:N2:77:LYS:HG2	58:N2:81:LYS:HE2	1.90	0.53
62:N6:34:PRO:HA	62:N6:47:ALA:HB2	1.90	0.53
64:N8:71:PRO:HB2	64:N8:109:TYR:HA	1.91	0.53
80:6:206:A:H1'	80:6:262:U:O2	2.08	0.53
80:6:398:G:H8	80:6:398:G:O5'	1.91	0.53
80:6:563:U:H4'	32:e0:17:GLN:NE2	2.23	0.53
80:6:918:U:H2'	80:6:919:A:C8	2.44	0.53
80:6:996:U:H2'	80:6:997:G:H8	1.74	0.53
80:6:1565:C:H2'	80:6:1566:U:O4'	2.09	0.53
3:s1:23:PRO:HB3	3:s1:26:ARG:CZ	2.39	0.53
5:s3:37:VAL:HG12	5:s3:50:ILE:HA	1.90	0.53
10:s8:106:ALA:O	10:s8:110:ARG:N	2.39	0.53
11:s9:74:ASN:O	11:s9:78:ARG:HB3	2.09	0.53
17:c5:111:MET:HG2	20:c8:119:ILE:HG13	1.90	0.53
32:e0:14:VAL:O	32:e0:18:THR:HG23	2.08	0.53
34:sR:54:PHE:CE2	34:sR:312:VAL:HG11	2.43	0.53
34:sR:148:ASN:O	34:sR:149:ASP:HB2	2.07	0.53
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.42	0.53
36:5:1638:A:H5''	36:5:1639:C:OP2	2.08	0.53
36:5:1786:G:H2'	36:5:1787:A:C8	2.44	0.53
36:5:2896:A:H5'	36:5:2896:A:H8	1.74	0.53
36:5:3195:U:H1'	36:5:3196:U:OP1	2.09	0.53
37:7:29:C:OP2	48:m1:137:ARG:HD2	2.09	0.53
37:7:79:A:OP2	87:7:210:OHX:N5	2.42	0.53
44:l7:228:SER:HA	44:l7:232:ARG:HH21	1.74	0.53
45:l8:143:ILE:HG23	45:l8:175:VAL:HG21	1.90	0.53
48:m1:108:GLU:HA	48:m1:122:ILE:HG23	1.90	0.53
51:m5:75:VAL:HG22	51:m5:76:PRO:HD2	1.91	0.53
63:n7:36:HIS:CD2	63:n7:74:VAL:HG11	2.44	0.53
65:n9:46:ALA:O	65:n9:50:THR:HG23	2.09	0.53
1:2:883:C:H2'	1:2:884:A:H8	1.74	0.53
1:2:894:U:H3	1:2:918:U:H3	1.57	0.53
1:2:1590:G:H2'	1:2:1591:C:H6	1.73	0.53
1:2:1660:A:H2'	1:2:1661:U:C6	2.44	0.53
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.73	0.53
6:S4:44:LEU:HG	6:S4:82:TYR:HB3	1.90	0.53
19:C7:27:ASP:O	19:C7:31:ASN:ND2	2.41	0.53
20:C8:53:ASP:HB3	20:C8:56:LYS:HG3	1.91	0.53
36:1:75:G:O4'	49:M3:61:PRO:HG3	2.09	0.53
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2599:U:H2'	36:1:2600:C:C6	2.44	0.53
36:1:3334:U:O4	36:1:3369:G:H1'	2.09	0.53
42:L5:287:ALA:HA	42:L5:290:ILE:HD11	1.91	0.53
48:M1:40:LEU:HD22	48:M1:40:LEU:O	2.08	0.53
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.74	0.53
56:N0:135:VAL:O	56:N0:141:LYS:HE3	2.08	0.53
57:N1:45:ASN:H	57:N1:95:HIS:CE1	2.26	0.53
71:O5:21:LEU:HD22	71:O5:25:LYS:HG3	1.90	0.53
79:Q3:37:TYR:HH	79:Q3:70:THR:HG1	1.54	0.53
80:6:717:C:O2'	80:6:718:U:OP1	2.26	0.53
80:6:755:A:O2'	80:6:756:A:H5''	2.09	0.53
80:6:900:A:OP1	16:c4:43:THR:OG1	2.16	0.53
2:s0:24:LEU:HD11	2:s0:41:ARG:HH22	1.73	0.53
3:s1:51:SER:HB3	3:s1:57:ALA:H	1.74	0.53
5:s3:68:GLU:OE2	81:c0:67:THR:OG1	2.27	0.53
18:c6:49:TYR:HB3	18:c6:53:LEU:HD21	1.91	0.53
36:5:259:C:O2'	36:5:260:C:H5'	2.09	0.53
36:5:955:U:H2'	36:5:956:U:C6	2.44	0.53
36:5:1024:G:N7	36:5:1027:A:N6	2.57	0.53
36:5:1429:G:C6	41:l4:99:MET:HE2	2.43	0.53
36:5:1483:G:C8	36:5:1485:G:C8	2.97	0.53
36:5:1680:G:H2'	36:5:1681:U:C6	2.44	0.53
36:5:2299:A:OP2	87:5:3461:OHX:N1	2.41	0.53
36:5:2308:C:O2	87:5:3807:OHX:N1	2.41	0.53
36:5:2746:A:H2'	36:5:2747:A:O4'	2.08	0.53
36:5:2946:A:H5''	36:5:2947:G:H5'	1.91	0.53
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.91	0.53
37:7:92:A:C5	37:7:93:C:H1'	2.44	0.53
39:l2:72:ARG:HH11	39:l2:72:ARG:HG3	1.72	0.53
40:l3:303:LYS:NZ	40:l3:359:ILE:O	2.41	0.53
41:l4:339:LEU:HA	41:l4:342:LYS:HB2	1.90	0.53
48:m1:160:VAL:O	48:m1:163:PHE:N	2.41	0.53
51:m5:98:LEU:HD23	51:m5:128:LYS:HD2	1.91	0.53
53:m7:94:LEU:HB2	53:m7:148:LEU:HD21	1.91	0.53
54:m8:80:THR:O	54:m8:137:THR:HA	2.07	0.53
1:2:150:U:P	26:D4:123:LYS:HZ1	2.32	0.53
1:2:542:A:H2'	1:2:543:C:H3'	1.91	0.53
1:2:1483:A:C6	1:2:1484:G:C6	2.97	0.53
2:S0:6:THR:C	2:S0:8:ASP:H	2.17	0.53
4:S2:238:SER:C	4:S2:240:LEU:H	2.16	0.53
14:C2:129:GLU:O	14:C2:133:LEU:HD13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1112:A:H2'	36:1:1113:G:O4'	2.08	0.53
36:1:1383:G:O3'	41:L4:138:ARG:NH2	2.42	0.53
36:1:1560:G:N1	36:1:1580:A:N1	2.57	0.53
36:1:2186:U:H5'	36:1:2314:U:OP2	2.08	0.53
36:1:2533:G:N7	87:1:3747:OHX:N4	2.57	0.53
36:1:2757:U:H4'	57:N1:8:ARG:HG3	1.91	0.53
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.90	0.53
58:N2:33:TYR:O	58:N2:36:TYR:N	2.42	0.53
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	1.89	0.53
66:O0:52:ARG:O	66:O0:56:LEU:HG	2.09	0.53
73:O7:31:LYS:O	73:O7:33:THR:HG22	2.09	0.53
80:6:406:U:O3'	8:s6:94:ARG:NH2	2.40	0.53
80:6:515:A:H2'	80:6:516:G:O4'	2.09	0.53
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.43	0.53
13:c1:67:ARG:HH12	13:c1:128:CYS:HA	1.73	0.53
23:d1:25:LYS:HB2	23:d1:28:ASP:HB2	1.91	0.53
24:d2:101:TYR:O	24:d2:129:VAL:HG12	2.08	0.53
36:5:656:A:H2'	36:5:657:A:C8	2.44	0.53
36:5:798:G:OP1	64:n8:33:GLY:N	2.40	0.53
36:5:1800:A:H2'	36:5:1801:U:O4'	2.09	0.53
36:5:1895:A:O2'	36:5:3053:G:H4'	2.08	0.53
36:5:2263:C:OP1	87:5:3457:OHX:N2	2.41	0.53
36:5:2428:U:O2	36:5:2602:G:C2	2.61	0.53
36:5:2555:G:N2	63:n7:135:ARG:O	2.33	0.53
38:8:151:C:H5''	38:8:152:G:OP1	2.09	0.53
41:l4:140:HIS:CD2	41:l4:247:PHE:H	2.27	0.53
41:l4:311:HIS:CE1	41:l4:314:LYS:HA	2.43	0.53
42:l5:270:LYS:O	42:l5:273:ARG:HB3	2.07	0.53
44:l7:111:ILE:HG13	44:l7:112:ASN:N	2.24	0.53
46:l9:87:LYS:HD3	46:l9:89:LYS:HE2	1.90	0.53
48:m1:37:LEU:HD13	48:m1:69:VAL:HG12	1.90	0.53
49:m3:107:GLU:OE1	72:o6:18:THR:OG1	2.17	0.53
55:m9:96:ILE:HG22	55:m9:100:ARG:HD2	1.91	0.53
63:n7:70:PRO:HG3	63:n7:115:LYS:HB2	1.91	0.53
66:o0:51:LEU:HD11	70:o4:90:ILE:HG22	1.91	0.53
1:2:71:A:H2'	1:2:72:A:O4'	2.10	0.52
1:2:258:C:O2'	1:2:259:U:H5'	2.10	0.52
1:2:269:G:N7	8:S6:186:ARG:NH2	2.53	0.52
1:2:539:G:H8	1:2:539:G:OP2	1.91	0.52
1:2:1141:G:H2'	1:2:1142:A:C8	2.44	0.52
1:2:1148:C:H2'	1:2:1149:G:C8	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1531:G:N2	21:C9:48:GLN:HE22	2.07	0.52
9:S7:21:ALA:O	9:S7:25:VAL:HG23	2.08	0.52
11:S9:123:HIS:CE1	32:E0:37:ARG:HB2	2.45	0.52
15:C3:132:VAL:HG23	15:C3:134:VAL:CG1	2.38	0.52
20:C8:34:THR:O	20:C8:34:THR:OG1	2.25	0.52
24:D2:8:ALA:HA	24:D2:74:VAL:HG11	1.91	0.52
36:1:160:G:H2'	36:1:161:G:H5''	1.91	0.52
36:1:277:G:OP1	87:1:3413:OHX:N3	2.42	0.52
36:1:603:A:H2'	36:1:604:G:O4'	2.10	0.52
36:1:1164:G:H2'	36:1:1165:A:H8	1.74	0.52
36:1:1792:C:H2'	36:1:1795:U:C5	2.44	0.52
36:1:1877:U:H5''	36:1:1878:G:O5'	2.08	0.52
36:1:2651:G:C2	36:1:2796:G:C4	2.97	0.52
37:3:43:U:H4'	48:M1:140:ARG:O	2.09	0.52
38:4:107:G:C2	38:4:116:G:C5	2.97	0.52
39:L2:95:SER:OG	39:L2:97:ASN:OD1	2.27	0.52
48:M1:9:MET:O	48:M1:9:MET:HG3	2.09	0.52
80:6:399:A:P	10:s8:49:ARG:HH22	2.32	0.52
80:6:918:U:H2'	80:6:919:A:H8	1.74	0.52
80:6:1058:U:H4'	80:6:1059:U:OP1	2.07	0.52
80:6:1439:C:H2'	80:6:1440:C:H6	1.74	0.52
5:s3:61:GLU:HB2	5:s3:64:ARG:HE	1.75	0.52
14:c2:53:THR:HG21	33:e1:106:TYR:OH	2.09	0.52
15:c3:27:LYS:O	15:c3:28:LEU:HG	2.09	0.52
19:c7:31:ASN:ND2	19:c7:31:ASN:H	2.06	0.52
21:c9:57:ARG:O	21:c9:61:VAL:HG23	2.09	0.52
36:5:1764:U:H3'	36:5:1765:U:C5'	2.39	0.52
36:5:2430:A:H2'	36:5:2431:C:C6	2.44	0.52
36:5:3269:U:O2	36:5:3271:G:N1	2.42	0.52
38:8:82:U:OP1	87:8:219:OHX:N1	2.42	0.52
41:l4:140:HIS:NE2	41:l4:246:ARG:HG2	2.24	0.52
41:l4:341:SER:O	41:l4:342:LYS:HB3	2.09	0.52
42:l5:295:GLY:HA3	87:l5:302:OHX:N2	2.25	0.52
47:m0:192:ASP:HA	47:m0:197:VAL:HG12	1.91	0.52
61:n5:46:TYR:HB3	71:o5:75:TYR:HB3	1.91	0.52
67:o1:44:MET:O	67:o1:46:THR:N	2.42	0.52
1:2:514:G:N1	1:2:543:C:H5	2.08	0.52
1:2:876:G:H1'	1:2:944:A:O4'	2.09	0.52
1:2:932:U:O2	28:D6:32:LYS:HE2	2.09	0.52
1:2:1097:U:O2'	4:S2:159:THR:OG1	2.13	0.52
1:2:1147:A:H2'	1:2:1148:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:4:PRO:HB2	2:S0:7:PHE:HB2	1.91	0.52
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.44	0.52
10:S8:168:CYS:HB2	10:S8:184:LEU:HD11	1.92	0.52
10:S8:184:LEU:HB3	10:S8:189:LEU:HB2	1.90	0.52
12:C0:80:LEU:C	12:C0:82:LEU:H	2.17	0.52
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.09	0.52
36:1:194:U:H2'	36:1:195:U:H6	1.74	0.52
36:1:519:A:N6	56:N0:65:ASN:O	2.38	0.52
36:1:1495:U:H5	36:1:1835:A:N1	2.07	0.52
36:1:1540:U:OP1	87:1:3558:OHX:N1	2.41	0.52
36:1:2394:G:N3	40:L3:259:HIS:HA	2.23	0.52
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	1.91	0.52
44:L7:136:TYR:CE2	44:L7:231:ASN:HB2	2.44	0.52
47:M0:193:ASP:OD2	47:M0:194:GLY:N	2.42	0.52
50:M4:54:PRO:O	50:M4:56:GLN:HG2	2.09	0.52
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.09	0.52
58:N2:54:VAL:HG12	58:N2:67:SER:HB2	1.89	0.52
63:N7:10:VAL:HB	63:N7:83:THR:HG21	1.92	0.52
64:N8:36:GLY:HA3	64:N8:40:HIS:CE1	2.44	0.52
80:6:454:U:C4	6:s4:66:MET:HB3	2.44	0.52
80:6:1132:A:H2'	80:6:1133:A:H8	1.74	0.52
80:6:1160:A:H2'	80:6:1161:C:C6	2.44	0.52
80:6:1562:G:C2	80:6:1563:C:C2	2.97	0.52
80:6:1628:U:H2'	80:6:1629:G:C8	2.44	0.52
3:s1:40:ASN:OD1	3:s1:40:ASN:N	2.41	0.52
11:s9:141:VAL:HG21	11:s9:146:PHE:CD2	2.45	0.52
21:c9:33:TYR:O	21:c9:35:ASP:N	2.40	0.52
36:5:1010:G:H5''	36:5:1010:G:H8	1.74	0.52
36:5:2101:C:H2'	36:5:2102:U:H6	1.72	0.52
40:l3:152:LYS:HD3	40:l3:189:SER:HA	1.90	0.52
41:l4:299:ILE:HG23	54:m8:39:ARG:HB3	1.91	0.52
44:l7:40:LYS:HA	44:l7:43:ILE:HD12	1.90	0.52
46:l9:122:LYS:HG2	46:l9:123:ILE:N	2.24	0.52
67:o1:46:THR:HG23	67:o1:47:ASP:H	1.73	0.52
68:o2:124:GLY:O	68:o2:126:LEU:N	2.42	0.52
70:o4:74:ARG:HG2	70:o4:75:ALA:N	2.24	0.52
71:o5:24:LEU:HB3	71:o5:51:ILE:HG12	1.90	0.52
73:o7:39:TYR:CD2	73:o7:40:PRO:HA	2.44	0.52
1:2:129:U:O2	87:2:1912:OHX:N1	2.43	0.52
1:2:209:U:H2'	1:2:210:A:C8	2.44	0.52
1:2:249:U:H3'	1:2:250:C:H5'	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:416:A:H4'	1:2:417:A:OP2	2.08	0.52
1:2:792:U:H3'	1:2:793:A:H8	1.74	0.52
1:2:853:G:O6	55:M9:173:ARG:NH2	2.42	0.52
1:2:871:G:O2'	29:D7:66:PRO:HB2	2.09	0.52
1:2:896:U:O4'	16:C4:38:THR:HG21	2.09	0.52
1:2:1308:G:C2	1:2:1309:C:C2	2.97	0.52
5:S3:99:VAL:HG13	5:S3:173:ARG:NH2	2.25	0.52
6:S4:100:ARG:NH2	6:S4:122:LYS:HA	2.24	0.52
9:S7:138:LYS:O	9:S7:139:ARG:NE	2.36	0.52
12:C0:32:HIS:CD2	12:C0:35:ILE:HB	2.44	0.52
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.09	0.52
20:C8:54:LEU:HD22	20:C8:54:LEU:H	1.73	0.52
36:1:805:G:H1'	41:L4:73:ARG:NH1	2.24	0.52
36:1:1618:G:H4'	38:4:129:C:H1'	1.91	0.52
36:1:1921:A:C5	36:1:1929:G:N2	2.77	0.52
36:1:2102:U:H2'	36:1:2103:U:H6	1.74	0.52
36:1:2194:G:H1'	36:1:2274:U:O2	2.09	0.52
36:1:2403:G:P	87:1:3733:OHX:N5	2.81	0.52
36:1:2881:C:H2'	36:1:2882:U:H6	1.75	0.52
39:L2:229:ALA:HB3	39:L2:234:LYS:HG2	1.90	0.52
41:L4:23:PRO:O	41:L4:25:VAL:N	2.41	0.52
43:L6:18:LEU:HD22	43:L6:18:LEU:H	1.75	0.52
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.43	0.52
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.91	0.52
48:M1:19:LEU:HD12	48:M1:69:VAL:HG13	1.89	0.52
53:M7:23:ARG:O	53:M7:86:LYS:HE2	2.10	0.52
57:N1:44:ALA:HB2	57:N1:53:PRO:HG2	1.91	0.52
73:O7:73:ARG:HH11	73:O7:73:ARG:HB3	1.74	0.52
80:6:140:A:N6	80:6:281:G:OP1	2.42	0.52
80:6:273:G:O5'	80:6:273:G:H8	1.93	0.52
80:6:836:U:H2'	80:6:837:G:H8	1.74	0.52
80:6:931:C:H1'	3:s1:120:LEU:HB2	1.89	0.52
80:6:1191:U:H5'	18:c6:143:ARG:NH1	2.24	0.52
80:6:1402:G:OP1	19:c7:4:VAL:HA	2.09	0.52
80:6:1490:C:OP1	80:6:1514:U:H5	1.92	0.52
8:s6:2:LYS:HE2	8:s6:17:GLU:OE2	2.09	0.52
18:c6:57:LEU:H	18:c6:57:LEU:HD12	1.74	0.52
20:c8:44:ASN:O	20:c8:48:LYS:HG3	2.10	0.52
36:5:364:G:OP2	73:o7:52:LYS:HE3	2.08	0.52
36:5:1095:U:N3	57:n1:127:GLN:HG3	2.24	0.52
36:5:2355:G:H5'	53:m7:139:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2552:C:N4	66:o0:57:GLU:OE2	2.42	0.52
38:8:59:A:H4'	38:8:60:U:H5''	1.90	0.52
38:8:83:C:H4'	38:8:85:G:C2	2.44	0.52
39:l2:5:ILE:CG1	39:l2:8:GLN:HG3	2.35	0.52
39:l2:171:GLY:O	79:q3:68:ALA:HB2	2.10	0.52
41:l4:233:LEU:HD22	41:l4:238:LEU:HD11	1.90	0.52
47:m0:48:LEU:O	47:m0:139:ARG:HA	2.09	0.52
48:m1:34:SER:O	48:m1:37:LEU:N	2.42	0.52
57:n1:88:ARG:CZ	65:n9:33:LYS:HD2	2.39	0.52
63:n7:2:ALA:O	63:n7:4:PHE:HD2	1.92	0.52
65:n9:23:LYS:HB3	65:n9:24:PRO:HD3	1.92	0.52
1:2:1102:G:OP1	24:D2:76:SER:OG	2.27	0.52
1:2:1105:C:H41	25:D3:4:GLY:HA2	1.74	0.52
1:2:1139:A:OP2	87:2:1944:OHX:N5	2.42	0.52
1:2:1311:U:O4	87:2:2085:OHX:N3	2.42	0.52
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	1.90	0.52
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	2.39	0.52
27:D5:65:LEU:HB3	27:D5:71:ILE:HD13	1.91	0.52
36:1:398:A:C5	53:M7:3:ARG:NH2	2.78	0.52
36:1:507:U:H5	41:L4:319:LYS:NZ	2.07	0.52
36:1:964:G:O5'	64:N8:29:PRO:HB3	2.08	0.52
36:1:1754:G:C6	36:1:1755:C:C4	2.97	0.52
36:1:2534:G:C6	87:1:3747:OHX:N4	2.77	0.52
36:1:2932:U:H1'	36:1:2935:U:C4	2.44	0.52
36:1:2953:U:O4'	86:A:3403:8AN:N3	2.42	0.52
36:1:3192:U:H2'	36:1:3193:C:C6	2.44	0.52
37:3:112:G:OP2	87:3:206:OHX:N1	2.43	0.52
39:L2:227:ARG:HD3	39:L2:227:ARG:O	2.10	0.52
41:L4:257:LYS:HG2	41:L4:260:GLN:HB2	1.90	0.52
50:M4:120:VAL:HG22	52:M6:197:LEU:HD13	1.91	0.52
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.09	0.52
59:N3:120:LYS:N	59:N3:137:VAL:HG23	2.25	0.52
67:O1:21:HIS:O	67:O1:21:HIS:CG	2.62	0.52
71:O5:44:ILE:HA	71:O5:47:VAL:CG1	2.40	0.52
80:6:196:G:O2'	80:6:197:A:OP2	2.27	0.52
80:6:1524:A:H2'	80:6:1525:A:C8	2.44	0.52
80:6:1562:G:OP1	21:c9:89:ARG:NH2	2.42	0.52
5:s3:53:THR:HB	5:s3:90:ARG:NH2	2.24	0.52
9:s7:164:TYR:CZ	9:s7:165:LYS:HE2	2.45	0.52
10:s8:84:HIS:NE2	10:s8:97:THR:OG1	2.41	0.52
20:c8:5:VAL:O	27:d5:42:LEU:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:41:MET:HG2	24:d2:129:VAL:HG21	1.90	0.52
82:sM:75:ASP:OD1	82:sM:75:ASP:N	2.28	0.52
36:5:438:A:C8	36:5:439:C:H5	2.27	0.52
36:5:686:G:H2'	36:5:687:U:O4'	2.10	0.52
36:5:1080:A:OP1	42:l5:140:ARG:HB2	2.08	0.52
36:5:1192:C:C5	87:5:3593:OHX:N6	2.77	0.52
36:5:1202:A:O2'	36:5:1203:A:H5'	2.10	0.52
36:5:1556:C:H2'	36:5:2169:G:N1	2.24	0.52
87:5:3561:OHX:N6	86:B:3401:C:H5'	2.24	0.52
37:7:98:C:OP1	56:n0:39:SER:OG	2.19	0.52
39:l2:109:GLU:HA	39:l2:136:ILE:HG22	1.91	0.52
42:l5:129:TYR:CD2	42:l5:177:GLU:HG3	2.45	0.52
45:l8:166:LEU:HB2	45:l8:167:PRO:HD3	1.92	0.52
48:m1:166:LYS:O	48:m1:168:ASP:N	2.42	0.52
51:m5:67:ARG:HG2	51:m5:127:TYR:HE1	1.75	0.52
1:2:858:G:O3'	9:S7:113:PRO:HB3	2.10	0.52
1:2:901:G:N2	16:C4:54:GLU:OE1	2.42	0.52
1:2:1379:C:H5'	18:C6:10:PHE:CD2	2.45	0.52
13:C1:97:TYR:O	13:C1:99:ARG:HG3	2.09	0.52
22:D0:42:VAL:HG21	22:D0:55:PRO:HD3	1.91	0.52
26:D4:29:HIS:CE1	26:D4:34:ASN:H	2.27	0.52
36:1:1145:G:H5'	68:O2:46:PHE:CE1	2.45	0.52
36:1:1820:U:H1'	36:1:1821:U:OP2	2.09	0.52
36:1:3178:A:C2	52:M6:115:LYS:HG2	2.45	0.52
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.44	0.52
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.91	0.52
41:L4:269:SER:O	41:L4:271:LYS:N	2.40	0.52
45:L8:36:ILE:O	45:L8:38:GLN:N	2.43	0.52
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.45	0.52
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.44	0.52
54:M8:23:ASN:HB3	54:M8:26:LEU:HB2	1.90	0.52
68:O2:121:ASN:OD1	68:O2:121:ASN:N	2.41	0.52
70:O4:64:THR:OG1	70:O4:64:THR:O	2.27	0.52
80:6:79:C:H4'	8:s6:173:PRO:O	2.09	0.52
80:6:190:C:OP2	80:6:190:C:H6	1.92	0.52
80:6:587:C:H2'	80:6:588:U:C6	2.45	0.52
80:6:1320:U:O2	80:6:1322:A:H5'	2.09	0.52
80:6:1452:U:H2'	80:6:1453:G:C8	2.45	0.52
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.10	0.52
14:c2:132:GLU:O	14:c2:136:ILE:HD13	2.08	0.52
20:c8:145:ARG:HB3	82:sM:68:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:35:ASN:OD1	23:d1:52:THR:HB	2.09	0.52
29:d7:34:ASP:O	29:d7:79:PHE:HA	2.09	0.52
34:sR:37:SER:OG	34:sR:38:ARG:N	2.43	0.52
36:5:779:G:OP1	54:m8:185:LYS:NZ	2.39	0.52
36:5:1720:U:C4	55:m9:124:TYR:CE2	2.98	0.52
36:5:2350:C:H4'	36:5:3308:C:O2'	2.09	0.52
41:l4:99:MET:SD	41:l4:102:PRO:HA	2.49	0.52
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.08	0.52
54:m8:94:PHE:CZ	64:n8:119:PRO:HD3	2.45	0.52
56:n0:81:TYR:HA	56:n0:120:SER:O	2.09	0.52
78:q2:38:GLN:HA	78:q2:38:GLN:NE2	2.20	0.52
1:2:220:A:H5''	1:2:832:U:H1'	1.92	0.52
1:2:614:C:H2'	1:2:615:A:H8	1.75	0.52
1:2:1051:G:C8	87:2:2064:OHX:N1	2.78	0.52
17:C5:130:ARG:HD3	35:SM:74:LYS:HG2	1.90	0.52
31:D9:5:ASN:HB3	31:D9:7:TRP:CD1	2.44	0.52
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	1.90	0.52
35:SM:25:ILE:HG12	37:3:39:C:H5'	1.90	0.52
36:1:68:C:OP2	36:1:315:C:O2'	2.26	0.52
36:1:174:C:H2'	36:1:175:C:C6	2.44	0.52
36:1:269:G:N2	36:1:295:A:OP2	2.37	0.52
36:1:874:U:N3	36:1:2978:U:H5''	2.25	0.52
36:1:1865:A:O2'	36:1:1866:C:H5'	2.10	0.52
36:1:2209:U:OP2	36:1:2209:U:C6	2.59	0.52
36:1:3294:A:H2'	36:1:3295:A:O4'	2.10	0.52
36:1:3380:U:O4	87:1:3472:OHX:N4	2.43	0.52
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.37	0.52
38:4:150:G:N2	45:L8:59:GLN:OE1	2.40	0.52
41:L4:334:PHE:CD1	41:L4:339:LEU:HD12	2.44	0.52
52:M6:140:LYS:NZ	52:M6:150:GLU:OE1	2.36	0.52
66:O0:16:LEU:HD11	66:O0:97:ASP:OD1	2.09	0.52
80:6:207:U:H2'	80:6:208:U:C6	2.45	0.52
80:6:355:G:P	87:6:1921:OHX:N5	2.83	0.52
80:6:765:G:N2	11:s9:146:PHE:HZ	2.06	0.52
80:6:1144:U:H2'	80:6:1145:U:O4'	2.09	0.52
3:s1:206:PRO:O	3:s1:207:LEU:HB2	2.10	0.52
21:c9:70:GLN:HG3	21:c9:120:GLY:O	2.10	0.52
22:d0:69:LYS:HB2	22:d0:78:THR:OG1	2.10	0.52
26:d4:89:TYR:O	26:d4:92:VAL:HG22	2.10	0.52
36:5:304:G:C6	51:m5:178:HIS:HD2	2.28	0.52
36:5:795:G:O2'	36:5:1111:U:H5''	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:979:U:H1'	36:5:980:A:C4	2.44	0.52
36:5:1725:C:H2'	36:5:1726:C:H6	1.74	0.52
36:5:2228:A:H2'	36:5:2229:A:C8	2.44	0.52
36:5:2514:U:H6	36:5:2514:U:OP1	1.93	0.52
36:5:3225:C:H2'	36:5:3226:A:O4'	2.09	0.52
42:15:67:SER:HA	42:15:72:ASP:HA	1.91	0.52
1:2:1087:A:H2'	1:2:1088:A:H8	1.74	0.52
25:D3:75:GLN:HB2	25:D3:82:LYS:HG3	1.91	0.52
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.92	0.52
36:1:143:G:H4'	38:4:145:U:OP1	2.09	0.52
36:1:209:A:H4'	36:1:211:A:C8	2.44	0.52
36:1:655:C:H2'	36:1:656:A:H8	1.73	0.52
36:1:787:G:H2'	36:1:788:C:C6	2.45	0.52
36:1:1508:C:C6	36:1:1880:U:H1'	2.44	0.52
36:1:1537:A:OP2	87:1:3707:OHX:N2	2.43	0.52
36:1:2561:A:N1	45:L8:32:LYS:HB2	2.25	0.52
36:1:3055:U:H1'	36:1:3057:U:OP2	2.10	0.52
36:1:3087:A:C2	36:1:3088:G:C4	2.98	0.52
38:4:69:U:OP2	87:O7:102:OHX:N3	2.42	0.52
42:L5:58:LYS:HB3	42:L5:93:THR:HG21	1.91	0.52
44:L7:47:ARG:NH2	44:L7:179:LEU:HD11	2.25	0.52
44:L7:216:VAL:HG21	44:L7:219:LYS:HA	1.92	0.52
53:M7:17:ALA:HB2	53:M7:98:ALA:HB2	1.91	0.52
53:M7:64:ASN:O	53:M7:67:ILE:HB	2.10	0.52
54:M8:115:VAL:O	54:M8:118:GLY:N	2.38	0.52
55:M9:23:TRP:CE3	55:M9:51:VAL:HG22	2.43	0.52
56:N0:30:PHE:CD2	56:N0:103:VAL:HG21	2.45	0.52
62:N6:23:PRO:O	62:N6:27:ARG:HG3	2.10	0.52
70:O4:65:VAL:HG13	70:O4:69:HIS:HB2	1.91	0.52
71:O5:9:LEU:HB3	71:O5:17:LEU:HD21	1.91	0.52
73:O7:21:ARG:HH11	73:O7:44:THR:HG23	1.74	0.52
74:O8:8:ILE:H	74:O8:8:ILE:CD1	2.21	0.52
78:Q2:6:LYS:O	78:Q2:7:THR:HG23	2.10	0.52
80:6:411:C:N4	80:6:412:A:C2	2.78	0.52
80:6:413:U:H2'	80:6:414:C:H6	1.73	0.52
80:6:811:A:C2	80:6:858:G:H1'	2.45	0.52
80:6:982:U:O4	80:6:983:A:N6	2.43	0.52
80:6:1695:G:H21	80:6:1706:C:N4	2.08	0.52
80:6:1798:U:OP2	28:d6:38:ARG:NH2	2.43	0.52
3:s1:180:THR:HG23	3:s1:183:GLN:HE22	1.74	0.52
5:s3:60:GLY:O	5:s3:62:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:86:PHE:CE2	6:s4:102:VAL:HG23	2.41	0.52
9:s7:98:ILE:HD13	9:s7:118:LEU:HA	1.91	0.52
20:c8:114:GLU:HA	20:c8:117:LYS:HB2	1.92	0.52
24:d2:5:SER:OG	24:d2:8:ALA:N	2.37	0.52
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.91	0.52
36:5:29:C:O2'	51:m5:162:ARG:O	2.20	0.52
36:5:1595:U:C2	36:5:1596:C:C5	2.97	0.52
36:5:2115:G:H22	36:5:2120:A:H1'	1.74	0.52
36:5:2977:G:H8	36:5:2977:G:H5''	1.75	0.52
36:5:3047:U:H5'	40:l3:329:PRO:HA	1.91	0.52
38:8:1:A:OP1	87:8:201:OHX:N2	2.43	0.52
39:l2:211:HIS:CD2	39:l2:219:ILE:HG23	2.45	0.52
40:l3:74:GLU:OE1	40:l3:283:TYR:OH	2.21	0.52
41:l4:60:THR:HG21	41:l4:77:VAL:HG22	1.92	0.52
47:m0:129:VAL:HG13	47:m0:133:GLN:HG2	1.90	0.52
50:m4:48:GLY:HA3	50:m4:53:VAL:HB	1.90	0.52
61:n5:58:ASP:O	61:n5:62:VAL:HG23	2.10	0.52
86:B:3402:C:H2'	86:B:3403:8AN:C8	2.40	0.52
1:2:621:A:N3	1:2:1107:G:H1'	2.25	0.52
1:2:1006:C:OP1	87:2:1913:OHX:N5	2.42	0.52
1:2:1240:U:O4	17:C5:59:LYS:NZ	2.39	0.52
1:2:1586:A:H2'	1:2:1587:A:O4'	2.09	0.52
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.10	0.52
9:S7:49:ILE:O	9:S7:57:ALA:N	2.31	0.52
18:C6:11:GLY:O	18:C6:80:ALA:HB1	2.10	0.52
19:C7:100:LEU:H	19:C7:118:PRO:HB2	1.75	0.52
36:1:118:U:N3	36:1:122:A:OP2	2.26	0.52
36:1:627:U:H4'	36:1:1399:A:O2'	2.10	0.52
36:1:1336:U:H2'	36:1:1337:A:H8	1.73	0.52
36:1:1547:G:H2'	36:1:1548:C:C6	2.44	0.52
36:1:1823:A:H2'	36:1:1824:U:C6	2.44	0.52
36:1:1922:A:H2'	36:1:1923:C:O4'	2.10	0.52
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.43	0.52
36:1:2530:G:N2	36:1:2581:U:C2	2.78	0.52
36:1:2860:U:H2'	36:1:2861:U:H5'	1.91	0.52
37:3:56:A:O2'	48:M1:148:VAL:HG22	2.09	0.52
38:4:79:A:H5''	71:O5:43:LYS:HZ1	1.74	0.52
38:4:142:C:H2'	38:4:143:U:H6	1.74	0.52
47:M0:53:VAL:O	47:M0:163:GLN:HB2	2.09	0.52
48:M1:52:TYR:HA	48:M1:61:ARG:HG3	1.92	0.52
64:N8:66:ALA:O	64:N8:67:HIS:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:8:THR:OG1	65:N9:9:ALA:N	2.40	0.52
80:6:6:G:N7	4:s2:205:ARG:NH1	2.58	0.52
80:6:189:C:H2'	80:6:190:C:H5'	1.91	0.52
80:6:825:U:HO2'	80:6:826:U:P	2.33	0.52
80:6:1304:G:C5	80:6:1305:U:C5	2.98	0.52
4:s2:81:MET:HG3	4:s2:103:VAL:HG23	1.92	0.52
6:s4:201:HIS:N	6:s4:206:ASP:OD1	2.30	0.52
11:s9:149:ARG:HG3	11:s9:149:ARG:HH11	1.73	0.52
16:c4:115:ILE:HG21	28:d6:44:ILE:HG21	1.90	0.52
20:c8:88:ARG:NH1	20:c8:112:ASP:OD2	2.43	0.52
36:5:513:G:C5	36:5:579:G:C6	2.97	0.52
36:5:671:U:OP2	54:m8:57:ILE:HD12	2.09	0.52
36:5:1654:A:H2'	36:5:1655:G:H5'	1.91	0.52
36:5:1747:G:O3'	74:o8:53:THR:HG21	2.10	0.52
36:5:1908:A:H2'	36:5:1909:A:C8	2.45	0.52
36:5:1946:A:N6	36:5:2102:U:H3	2.08	0.52
36:5:2137:U:C6	36:5:2141:U:C4	2.98	0.52
36:5:2213:A:N1	36:5:2429:G:H1'	2.24	0.52
36:5:2954:U:N3	86:B:3403:8AN:O2'	2.43	0.52
36:5:3107:U:H2'	36:5:3108:G:C8	2.45	0.52
47:m0:50:VAL:HG13	47:m0:167:LEU:HD13	1.92	0.52
84:p0:45:LEU:HD22	84:p0:49:ALA:HB3	1.92	0.52
1:2:197:A:H2'	1:2:198:A:C8	2.45	0.52
1:2:237:C:H5''	1:2:238:U:H5'	1.91	0.52
1:2:1149:G:H5''	1:2:1150:G:OP1	2.09	0.52
1:2:1170:G:C6	1:2:1574:G:C5	2.97	0.52
1:2:1653:C:N4	1:2:1654:G:C6	2.78	0.52
1:2:1681:A:H1'	8:S6:66:GLY:HA2	1.91	0.52
9:S7:58:LEU:N	9:S7:89:HIS:O	2.40	0.52
10:S8:103:GLN:HB3	10:S8:164:ARG:HG2	1.91	0.52
11:S9:83:VAL:HG23	11:S9:85:VAL:HG23	1.92	0.52
18:C6:113:ASP:OD2	18:C6:115:THR:N	2.42	0.52
18:C6:125:GLU:HG2	18:C6:126:PRO:HD2	1.92	0.52
21:C9:38:LYS:O	21:C9:40:SER:N	2.38	0.52
24:D2:23:ARG:HH12	24:D2:66:ASN:HA	1.74	0.52
29:D7:21:LEU:HD22	29:D7:26:GLN:OE1	2.10	0.52
36:1:13:A:H5''	36:1:13:A:H8	1.75	0.52
36:1:37:U:N3	36:1:47:C:O2	2.42	0.52
36:1:390:G:H2'	36:1:391:A:O4'	2.10	0.52
36:1:815:G:C2	36:1:926:A:C2	2.98	0.52
36:1:945:C:H2'	36:1:946:U:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1541:G:H2'	36:1:1542:G:O4'	2.10	0.52
36:1:1752:A:OP2	87:1:3586:OHX:N3	2.43	0.52
36:1:2557:A:H2	45:L8:38:GLN:HA	1.74	0.52
39:L2:14:SER:C	39:L2:16:PHE:H	2.17	0.52
44:L7:237:ASN:O	44:L7:240:VAL:N	2.42	0.52
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.92	0.52
46:L9:86:TYR:CD1	46:L9:151:VAL:HG13	2.44	0.52
48:M1:110:ILE:O	48:M1:112:LEU:N	2.42	0.52
55:M9:171:ASP:OD1	55:M9:171:ASP:N	2.43	0.52
71:O5:54:VAL:O	71:O5:58:ILE:HG13	2.09	0.52
80:6:27:U:C2	80:6:28:A:C8	2.98	0.52
80:6:274:G:N2	80:6:283:U:H1'	2.24	0.52
80:6:703:G:H2'	80:6:704:C:C6	2.45	0.52
7:s5:117:THR:OG1	7:s5:191:ALA:HA	2.10	0.52
11:s9:29:LYS:O	11:s9:33:GLU:HG2	2.10	0.52
14:c2:58:LEU:HG	14:c2:126:TRP:CZ3	2.45	0.52
26:d4:37:LYS:HA	26:d4:40:LEU:HB2	1.91	0.52
36:5:47:C:OP2	36:5:48:A:O2'	2.26	0.52
36:5:68:C:O3'	51:m5:177:GLY:HA2	2.10	0.52
36:5:677:A:C8	36:5:786:A:C6	2.97	0.52
36:5:1070:U:C2'	36:5:1071:U:H5'	2.40	0.52
36:5:2393:G:OP1	40:l3:248:LYS:HE2	2.10	0.52
37:7:8:G:O6	42:l5:21:ARG:NH2	2.32	0.52
39:l2:25:GLY:HA3	39:l2:75:ILE:HD13	1.90	0.52
41:l4:185:LYS:HE3	41:l4:201:GLN:OE1	2.10	0.52
42:l5:90:HIS:NE2	42:l5:229:ASP:OD2	2.42	0.52
51:m5:120:TRP:HZ2	51:m5:123:GLN:HG2	1.75	0.52
63:n7:92:PHE:HA	63:n7:95:VAL:HG23	1.92	0.52
65:n9:21:ILE:HG22	65:n9:22:LYS:O	2.10	0.52
70:o4:16:ARG:NH2	70:o4:37:LYS:HD2	2.24	0.52
71:o5:4:VAL:HG11	71:o5:9:LEU:HD11	1.91	0.52
72:o6:53:TYR:O	72:o6:57:LEU:N	2.39	0.52
1:2:1079:U:H2'	1:2:1080:U:C6	2.45	0.52
1:2:1092:A:C8	1:2:1094:G:C8	2.98	0.52
1:2:1162:C:O2	1:2:1616:G:C2	2.63	0.52
1:2:1281:G:H2'	1:2:1282:U:H6	1.75	0.52
6:S4:209:HIS:C	6:S4:210:ILE:HG12	2.35	0.52
7:S5:206:SER:H	7:S5:211:ILE:HG21	1.75	0.52
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.10	0.52
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.10	0.52
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:29:ARG:HH11	29:D7:29:ARG:HG3	1.74	0.52
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	1.92	0.52
36:1:361:A:O3'	73:O7:45:ARG:NH2	2.43	0.52
36:1:1593:A:O4'	70:O4:60:ARG:HD3	2.10	0.52
36:1:2767:U:H2'	36:1:2768:U:C6	2.45	0.52
40:L3:295:ALA:HB2	40:L3:301:THR:O	2.10	0.52
40:L3:334:ARG:O	40:L3:336:VAL:HG23	2.10	0.52
41:L4:262:TRP:HB3	41:L4:276:LEU:HD21	1.90	0.52
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.43	0.52
43:L6:2:SER:HB3	68:O2:81:ASP:OD1	2.10	0.52
43:L6:145:LEU:O	43:L6:148:GLU:N	2.42	0.52
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	1.91	0.52
50:M4:115:PHE:O	50:M4:119:GLN:HG3	2.10	0.52
64:N8:76:ASP:HB2	64:N8:115:LYS:HB2	1.92	0.52
70:O4:57:LEU:HD12	70:O4:62:TYR:CD1	2.45	0.52
80:6:169:A:C5'	8:s6:176:GLN:HG2	2.39	0.52
80:6:760:A:H2'	80:6:761:G:O4'	2.10	0.52
80:6:1067:C:H5''	3:s1:150:VAL:CG1	2.40	0.52
80:6:1623:C:H2'	80:6:1624:C:C6	2.45	0.52
2:s0:28:ASN:O	2:s0:150:ASP:HB3	2.09	0.52
5:s3:90:ARG:HD3	5:s3:91:VAL:HG22	1.92	0.52
7:s5:159:ALA:HB3	7:s5:225:ARG:HB3	1.92	0.52
9:s7:98:ILE:HD11	9:s7:121:VAL:HB	1.91	0.52
11:s9:60:LEU:HD12	11:s9:97:LEU:HD11	1.92	0.52
16:c4:18:ARG:HG3	16:c4:82:LYS:HB3	1.92	0.52
16:c4:107:ARG:HB2	16:c4:107:ARG:NH2	2.22	0.52
19:c7:71:PHE:CE1	19:c7:74:GLN:HB2	2.45	0.52
21:c9:20:SER:O	21:c9:23:GLN:N	2.41	0.52
34:sR:19:TRP:CD2	34:sR:306:THR:HG22	2.45	0.52
36:5:304:G:C6	51:m5:178:HIS:CD2	2.98	0.52
36:5:1205:A:H4'	36:5:2835:U:O2'	2.10	0.52
36:5:1598:G:H2'	36:5:1599:G:H8	1.74	0.52
36:5:1647:A:C2	36:5:1809:A:H1'	2.45	0.52
36:5:1701:C:H2'	36:5:1702:U:O4'	2.09	0.52
36:5:2413:A:H2'	36:5:2414:G:H8	1.73	0.52
36:5:3194:C:H2'	36:5:3195:U:H3'	1.92	0.52
45:l8:97:TYR:OH	45:l8:203:VAL:HG13	2.10	0.52
51:m5:187:ARG:O	51:m5:190:THR:HG23	2.09	0.52
53:m7:24:VAL:HG12	53:m7:86:LYS:HB3	1.92	0.52
61:n5:73:MET:O	61:n5:76:VAL:N	2.43	0.52
68:o2:85:LEU:HB2	68:o2:117:ILE:HD13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:111:ARG:O	68:o2:114:ALA:HB3	2.09	0.52
74:o8:27:ILE:HD12	74:o8:39:ARG:NH2	2.25	0.52
1:2:9:U:O4	87:2:2051:OHX:N6	2.42	0.51
1:2:276:C:O2'	1:2:277:U:H5''	2.10	0.51
1:2:814:A:H5''	55:M9:170:ARG:HH22	1.75	0.51
1:2:1610:G:O3'	7:S5:98:MET:HE1	2.10	0.51
3:S1:105:PHE:CE2	3:S1:213:ARG:HA	2.45	0.51
4:S2:162:CYS:SG	4:S2:212:LYS:HE2	2.50	0.51
7:S5:29:ILE:HG22	7:S5:34:GLN:HG3	1.92	0.51
11:S9:149:ARG:O	11:S9:151:ASP:N	2.42	0.51
13:C1:87:ARG:HH21	13:C1:104:HIS:CD2	2.27	0.51
15:C3:88:LEU:HG	15:C3:125:LEU:HD13	1.91	0.51
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.91	0.51
21:C9:5:SER:N	21:C9:8:ASP:OD1	2.30	0.51
22:D0:24:ILE:HG12	22:D0:116:VAL:HG22	1.91	0.51
22:D0:82:TYR:HB3	31:D9:52:PHE:HB3	1.92	0.51
28:D6:37:LYS:C	28:D6:38:ARG:HD2	2.35	0.51
35:SM:34:LYS:HE3	36:1:2692:A:O3'	2.09	0.51
36:1:73:C:C2	49:M3:59:ARG:HD3	2.45	0.51
36:1:650:C:H6	36:1:650:C:O5'	1.93	0.51
36:1:1139:G:O2'	44:L7:94:LYS:HG2	2.09	0.51
36:1:1450:G:OP1	87:1:3776:OHX:N1	2.43	0.51
36:1:1804:A:H2'	36:1:1805:C:C6	2.46	0.51
36:1:1909:A:O2'	36:1:1910:A:H5'	2.10	0.51
36:1:2389:C:O2'	36:1:2390:A:H5'	2.10	0.51
36:1:2539:C:H5'	36:1:2541:U:O4	2.10	0.51
36:1:2713:U:H3'	78:Q2:9:LYS:O	2.10	0.51
37:3:55:A:H2'	37:3:56:A:O4'	2.09	0.51
41:L4:351:PRO:HB3	44:L7:70:LYS:HB3	1.91	0.51
48:M1:54:VAL:O	48:M1:55:ARG:HB3	2.10	0.51
48:M1:91:LEU:HB3	48:M1:95:ASN:HD22	1.75	0.51
70:O4:16:ARG:HD2	70:O4:37:LYS:HD2	1.92	0.51
80:6:127:G:H21	80:6:178:U:H1'	1.75	0.51
80:6:325:G:H2'	80:6:326:G:H8	1.74	0.51
80:6:748:U:OP1	24:d2:82:LYS:HE3	2.10	0.51
80:6:778:G:N2	80:6:780:A:H5'	2.25	0.51
80:6:1064:G:H2'	80:6:1065:A:C8	2.45	0.51
3:s1:157:GLN:HB2	3:s1:160:HIS:ND1	2.25	0.51
4:s2:143:TYR:OH	4:s2:150:GLN:N	2.43	0.51
6:s4:50:ASN:O	6:s4:51:ARG:NH2	2.43	0.51
7:s5:94:THR:HG22	7:s5:114:ILE:CG1	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:40:ALA:O	10:s8:59:ARG:HB3	2.10	0.51
13:c1:81:HIS:NE2	13:c1:82:ARG:HD2	2.24	0.51
34:sR:156:VAL:HA	34:sR:169:ILE:HG22	1.92	0.51
36:5:73:C:N3	49:m3:59:ARG:NH1	2.58	0.51
36:5:101:G:OP2	36:5:101:G:N2	2.36	0.51
36:5:591:G:N2	36:5:612:U:OP1	2.40	0.51
36:5:948:C:H2'	36:5:949:C:C6	2.45	0.51
36:5:1365:G:OP2	87:5:3531:OHX:N3	2.43	0.51
36:5:1599:G:OP1	87:5:3641:OHX:N4	2.43	0.51
36:5:1659:U:H2'	36:5:1660:C:C6	2.45	0.51
36:5:1816:A:C2'	36:5:1817:G:H5''	2.39	0.51
36:5:2767:U:O3'	78:q2:31:GLY:HA3	2.10	0.51
36:5:3068:U:OP1	55:m9:59:SER:N	2.40	0.51
36:5:3135:U:OP1	52:m6:148:LYS:HE2	2.10	0.51
40:l3:261:MET:C	40:l3:263:SER:H	2.18	0.51
40:l3:312:VAL:O	40:l3:314:TYR:N	2.44	0.51
59:n3:24:ASN:O	59:n3:99:ALA:HA	2.11	0.51
63:n7:108:GLU:O	63:n7:112:LYS:HG3	2.10	0.51
72:o6:40:VAL:O	72:o6:44:VAL:HG23	2.11	0.51
1:2:189:C:N4	1:2:197:A:H2	2.08	0.51
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.25	0.51
1:2:1235:C:H5'	33:E1:146:SER:HB2	1.91	0.51
87:2:1975:OHX:N6	87:2:1990:OHX:N2	2.59	0.51
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.92	0.51
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.10	0.51
4:S2:147:ASN:O	23:D1:4:ASP:N	2.43	0.51
6:S4:122:LYS:HG2	6:S4:162:ILE:HB	1.92	0.51
10:S8:48:THR:HG21	10:S8:54:LYS:HB2	1.92	0.51
16:C4:84:ARG:HA	16:C4:119:THR:HG22	1.92	0.51
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.11	0.51
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.91	0.51
18:C6:113:ASP:CG	18:C6:114:ARG:H	2.17	0.51
33:E1:144:CYS:CB	33:E1:147:VAL:HB	2.39	0.51
36:1:121:A:C2	45:L8:129:PRO:HB3	2.46	0.51
36:1:591:G:N2	43:L6:19:LYS:O	2.36	0.51
36:1:1348:U:O2'	41:L4:287:THR:HG22	2.11	0.51
36:1:1414:G:H2'	36:1:1415:U:H6	1.75	0.51
36:1:1414:G:O6	87:1:3668:OHX:N2	2.43	0.51
36:1:2631:U:C4	36:1:2648:G:N1	2.79	0.51
36:1:2746:A:H2	42:L5:146:LEU:HB3	1.75	0.51
36:1:3021:A:H5'	36:1:3023:U:H1'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:67:U:H5''	73:O7:84:SER:O	2.10	0.51
39:L2:94:ALA:HB3	39:L2:102:LEU:HG	1.90	0.51
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.45	0.51
40:L3:255:TRP:CD1	40:L3:256:HIS:CE1	2.98	0.51
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.11	0.51
44:L7:140:SER:OG	44:L7:143:THR:HG23	2.10	0.51
49:M3:131:LYS:HE2	49:M3:131:LYS:H	1.74	0.51
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.11	0.51
57:N1:56:PHE:CZ	57:N1:60:LYS:HE2	2.45	0.51
64:N8:85:ASP:OD1	64:N8:86:LYS:HG2	2.11	0.51
69:O3:39:GLN:CD	69:O3:39:GLN:H	2.17	0.51
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH2	2.32	0.51
80:6:325:G:C2	80:6:344:A:C2	2.97	0.51
80:6:475:A:H2'	80:6:476:U:O4'	2.10	0.51
80:6:778:G:O6	26:d4:10:ARG:HD2	2.10	0.51
80:6:906:A:C6	80:6:907:A:C6	2.98	0.51
80:6:1579:U:O2'	18:c6:139:GLN:HA	2.10	0.51
4:s2:139:ILE:HD12	4:s2:191:ALA:HB1	1.91	0.51
4:s2:242:ILE:HG22	4:s2:243:TYR:CD2	2.45	0.51
5:s3:48:VAL:HB	5:s3:86:LEU:HD12	1.93	0.51
6:s4:248:ILE:HG13	6:s4:249:ALA:N	2.25	0.51
16:c4:128:LYS:HD3	28:d6:27:SER:HA	1.92	0.51
18:c6:127:LYS:HE2	18:c6:132:LYS:O	2.10	0.51
26:d4:55:VAL:HG12	26:d4:75:VAL:HG22	1.92	0.51
27:d5:53:GLU:O	27:d5:56:THR:N	2.24	0.51
36:5:330:G:OP2	87:5:3551:OHX:N1	2.43	0.51
36:5:620:U:H6	36:5:620:U:OP2	1.93	0.51
36:5:665:A:H1'	49:m3:14:PHE:CE1	2.44	0.51
36:5:908:G:N1	36:5:2414:G:OP1	2.39	0.51
36:5:1063:G:C6	57:n1:109:VAL:HG13	2.45	0.51
36:5:1601:U:P	55:m9:42:ARG:HH22	2.32	0.51
36:5:3304:U:O2'	40:l3:334:ARG:NH2	2.39	0.51
39:l2:180:LEU:HD23	79:q3:22:LEU:HD12	1.92	0.51
42:l5:270:LYS:HG3	42:l5:273:ARG:HB2	1.92	0.51
44:l7:173:LEU:HD23	44:l7:178:ILE:HG21	1.92	0.51
46:l9:190:ASP:O	46:l9:191:LEU:HD22	2.11	0.51
49:m3:162:ASN:HD21	49:m3:164:GLU:CD	2.17	0.51
53:m7:116:HIS:O	53:m7:148:LEU:HA	2.10	0.51
54:m8:131:ALA:HB1	54:m8:135:GLN:HG2	1.93	0.51
59:n3:26:ALA:HB1	59:n3:115:THR:O	2.10	0.51
68:o2:7:PRO:HG2	68:o2:63:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:116:U:H2'	1:2:117:U:C6	2.45	0.51
1:2:591:A:H2'	1:2:592:A:H8	1.75	0.51
1:2:802:G:O6	87:2:1932:OHX:N3	2.44	0.51
1:2:1274:C:N4	35:SM:95:SER:HA	2.26	0.51
1:2:1542:G:N2	1:2:1568:C:H1'	2.24	0.51
1:2:1723:U:O4	87:2:1941:OHX:N2	2.43	0.51
1:2:1814:A:H3'	1:2:1815:A:H5''	1.92	0.51
3:S1:41:ARG:HH22	3:S1:97:LEU:HD21	1.75	0.51
7:S5:26:ALA:HB3	18:C6:28:LEU:HA	1.92	0.51
10:S8:26:LYS:HD2	10:S8:29:LEU:HD13	1.92	0.51
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.10	0.51
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.46	0.51
20:C8:146:ALA:CB	35:SM:68:ARG:HH21	2.22	0.51
36:1:543:C:H3'	36:1:544:C:C6	2.45	0.51
36:1:2217:U:H2'	36:1:2218:G:C8	2.45	0.51
36:1:2534:G:C2	36:1:2535:A:N7	2.78	0.51
36:1:2655:U:H4'	36:1:2656:A:O4'	2.11	0.51
39:L2:77:ILE:CD1	39:L2:128:ARG:HB3	2.40	0.51
39:L2:96:LEU:O	79:Q3:87:ARG:NH1	2.40	0.51
45:L8:101:THR:HG23	45:L8:103:ALA:HB3	1.93	0.51
46:L9:26:LYS:HG3	46:L9:35:THR:HG22	1.92	0.51
55:M9:171:ASP:HA	55:M9:174:ALA:HB3	1.92	0.51
80:6:206:A:OP2	87:6:1985:OHX:N4	2.43	0.51
80:6:332:U:P	10:s8:56:ARG:HH22	2.33	0.51
80:6:1429:G:H2'	80:6:1430:U:C6	2.46	0.51
8:s6:139:ASN:OD1	8:s6:142:ARG:NH1	2.42	0.51
20:c8:3:LEU:HD23	20:c8:5:VAL:HG23	1.91	0.51
26:d4:129:VAL:O	26:d4:132:ARG:HB3	2.10	0.51
34:sR:274:LEU:HD22	34:sR:313:TRP:CD1	2.45	0.51
36:5:14:U:H1'	61:n5:42:ARG:HD2	1.93	0.51
36:5:617:G:H2'	36:5:618:C:H6	1.75	0.51
36:5:824:C:H5''	39:l2:21:ARG:HD3	1.92	0.51
36:5:1163:A:H2'	36:5:1164:G:H8	1.74	0.51
36:5:1176:C:H2'	36:5:1177:G:H21	1.73	0.51
36:5:1313:G:H2'	36:5:1314:C:C6	2.46	0.51
36:5:1343:A:H61	36:5:1361:U:H3	1.57	0.51
36:5:1389:G:OP2	87:5:3513:OHX:N5	2.43	0.51
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.29	0.51
36:5:1936:A:H2'	36:5:1937:U:O4'	2.10	0.51
36:5:2844:C:H5''	36:5:2845:A:OP2	2.10	0.51
38:8:65:A:H2'	38:8:66:A:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:67:U:O4	87:8:213:OHX:N3	2.43	0.51
51:m5:143:ARG:NH2	71:o5:92:LEU:HD23	2.25	0.51
52:m6:182:ASN:O	52:m6:185:ALA:N	2.43	0.51
57:n1:138:SER:C	57:n1:139:ARG:HG3	2.36	0.51
60:n4:38:SER:O	60:n4:42:GLN:HG3	2.10	0.51
1:2:1064:G:H2'	1:2:1065:A:C8	2.45	0.51
1:2:1793:G:H1'	1:2:1794:A:H2'	1.93	0.51
1:2:1808:G:H21	1:2:1819:C:H41	1.58	0.51
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.11	0.51
22:D0:42:VAL:HG23	22:D0:91:ILE:HD13	1.92	0.51
29:D7:67:THR:OG1	29:D7:70:LYS:O	2.28	0.51
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.91	0.51
36:1:1650:G:H2'	36:1:1651:U:C6	2.46	0.51
36:1:2415:C:OP1	39:L2:2:GLY:HA3	2.11	0.51
38:4:46:G:OP2	75:O9:15:LYS:HD2	2.11	0.51
38:4:91:C:H2'	38:4:92:A:C8	2.44	0.51
39:L2:79:ASN:HD21	39:L2:114:SER:HB3	1.75	0.51
46:L9:47:LYS:HZ2	50:M4:5:SER:N	2.09	0.51
47:M0:46:PHE:CD1	47:M0:140:THR:HA	2.45	0.51
47:M0:138:VAL:HG21	47:M0:152:LEU:HD11	1.92	0.51
61:N5:139:ILE:O	61:N5:139:ILE:HG13	2.10	0.51
80:6:485:A:C5	80:6:486:G:H1'	2.46	0.51
80:6:823:G:H2'	80:6:824:G:O4'	2.11	0.51
80:6:916:U:OP2	87:6:2008:OHX:N3	2.44	0.51
80:6:1274:C:H4'	80:6:1275:A:O5'	2.09	0.51
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.45	0.51
11:s9:85:VAL:HG12	11:s9:99:LEU:HD21	1.93	0.51
15:c3:36:GLN:OE1	15:c3:39:LYS:HD3	2.10	0.51
17:c5:90:ILE:HG21	17:c5:109:PRO:HG3	1.92	0.51
19:c7:84:TYR:OH	19:c7:86:PRO:HB3	2.10	0.51
36:5:354:U:OP1	87:o7:503:OHX:N5	2.44	0.51
36:5:534:U:H1'	56:n0:146:LYS:HD3	1.92	0.51
36:5:1013:G:N7	87:5:3605:OHX:N3	2.58	0.51
36:5:1181:U:O4	52:m6:18:ARG:HA	2.10	0.51
36:5:1288:U:H2'	36:5:1289:G:C8	2.45	0.51
36:5:1556:C:H2'	36:5:2169:G:C6	2.46	0.51
36:5:2623:G:H2'	36:5:2624:G:O4'	2.10	0.51
36:5:2944:U:H1'	40:l3:251:CYS:SG	2.51	0.51
42:l5:236:LEU:O	42:l5:239:ILE:N	2.44	0.51
44:l7:132:PRO:HA	44:l7:229:PHE:CG	2.45	0.51
44:l7:157:ASN:O	44:l7:159:GLN:HG2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:205:ALA:C	45:l8:207:ASP:H	2.19	0.51
46:l9:94:TYR:CG	46:l9:98:PRO:HA	2.46	0.51
49:m3:56:PRO:HB2	49:m3:57:VAL:O	2.09	0.51
51:m5:173:GLY:O	51:m5:183:THR:HG23	2.11	0.51
60:n4:82:ILE:HG22	60:n4:82:ILE:O	2.10	0.51
67:o1:54:GLU:HA	67:o1:57:GLN:HG3	1.91	0.51
70:o4:81:CYS:SG	70:o4:84:CYS:SG	3.08	0.51
1:2:95:G:P	6:S4:6:LYS:HD2	2.50	0.51
1:2:123:G:OP1	6:S4:77:ARG:NH2	2.42	0.51
1:2:127:G:N7	8:S6:202:ARG:NH2	2.58	0.51
1:2:420:A:H2'	1:2:421:A:O4'	2.10	0.51
1:2:717:C:H2'	1:2:718:U:H5''	1.91	0.51
1:2:1039:A:H5''	23:D1:62:ARG:NH2	2.25	0.51
1:2:1402:G:H2'	1:2:1403:C:C6	2.45	0.51
1:2:1525:A:H2'	1:2:1526:A:C8	2.45	0.51
3:S1:120:LEU:HD23	3:S1:121:ILE:N	2.24	0.51
3:S1:128:LYS:HE3	3:S1:132:ASP:CB	2.37	0.51
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.93	0.51
9:S7:159:VAL:HG13	9:S7:163:ASP:OD1	2.09	0.51
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.10	0.51
13:C1:75:VAL:CG1	13:C1:119:VAL:HA	2.41	0.51
19:C7:84:TYR:C	19:C7:85:VAL:HG13	2.36	0.51
25:D3:57:LEU:HD22	32:E0:4:VAL:HG12	1.92	0.51
25:D3:63:GLN:HA	25:D3:65:ASN:H	1.75	0.51
36:1:1094:U:O2	36:1:1096:U:O2'	2.16	0.51
36:1:1507:G:H2'	36:1:1507:G:N3	2.25	0.51
36:1:2172:A:H2'	36:1:2173:U:H6	1.75	0.51
36:1:2404:A:P	87:1:3733:OHX:N5	2.83	0.51
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.93	0.51
36:1:3358:U:H2'	36:1:3359:A:O4'	2.10	0.51
39:L2:143:GLU:O	39:L2:145:LYS:N	2.43	0.51
40:L3:86:VAL:HG13	40:L3:160:VAL:HG13	1.93	0.51
40:L3:126:LYS:O	40:L3:128:LYS:HG2	2.10	0.51
45:L8:195:SER:O	45:L8:197:VAL:N	2.42	0.51
49:M3:76:THR:HG23	49:M3:101:ARG:NH1	2.25	0.51
53:M7:51:VAL:C	53:M7:53:ASP:H	2.18	0.51
55:M9:130:ASN:C	55:M9:132:PHE:H	2.18	0.51
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.45	0.51
72:O6:5:THR:OG1	72:O6:7:ILE:HG12	2.11	0.51
80:6:142:G:C2	80:6:266:A:C5	2.99	0.51
80:6:712:G:H2'	80:6:713:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:794:U:H2'	80:6:794:U:OP2	2.11	0.51
80:6:1065:A:N3	3:s1:146:GLN:NE2	2.58	0.51
80:6:1398:U:H3'	80:6:1399:C:H4'	1.93	0.51
4:s2:212:LYS:O	4:s2:216:VAL:HG23	2.11	0.51
7:s5:79:ASN:HB2	7:s5:83:ARG:NH2	2.26	0.51
11:s9:92:LYS:HB2	11:s9:95:TYR:HD2	1.76	0.51
11:s9:122:VAL:HG23	11:s9:123:HIS:CD2	2.45	0.51
11:s9:171:ARG:NE	11:s9:171:ARG:HA	2.25	0.51
13:c1:109:VAL:HG11	13:c1:125:VAL:HG21	1.93	0.51
18:c6:129:PHE:HE1	22:d0:78:THR:HA	1.75	0.51
26:d4:51:GLU:O	26:d4:53:ASP:N	2.43	0.51
34:sR:195:HIS:NE2	34:sR:213:SER:OG	2.38	0.51
36:5:261:U:H2'	36:5:262:U:C6	2.45	0.51
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.11	0.51
36:5:1232:C:H2'	36:5:1233:G:H8	1.74	0.51
36:5:2108:C:H1'	36:5:3344:A:N3	2.26	0.51
36:5:2245:C:O4'	39:12:222:ALA:HA	2.11	0.51
37:7:112:G:H2'	37:7:113:C:C6	2.45	0.51
38:8:78:G:H2'	38:8:79:A:O4'	2.10	0.51
40:l3:123:TYR:CE2	40:l3:124:LYS:HG2	2.46	0.51
42:l5:229:ASP:HB3	42:l5:231:ILE:HG12	1.93	0.51
48:m1:91:LEU:O	48:m1:171:VAL:HA	2.11	0.51
59:n3:87:ARG:HH12	59:n3:137:VAL:HG21	1.76	0.51
71:o5:114:ARG:O	71:o5:116:TYR:HD2	1.94	0.51
74:o8:64:LYS:HE2	74:o8:65:LEU:HA	1.91	0.51
1:2:1497:U:OP2	87:2:1909:OHX:N1	2.43	0.51
1:2:1742:U:H2'	1:2:1743:U:O4'	2.10	0.51
14:C2:89:ILE:HG12	14:C2:90:LYS:H	1.74	0.51
16:C4:128:LYS:NZ	28:D6:27:SER:OG	2.44	0.51
36:1:542:G:H1	36:1:549:U:H3	1.58	0.51
36:1:685:G:OP1	49:M3:35:ARG:HD2	2.11	0.51
36:1:873:C:O3'	36:1:875:G:H5'	2.10	0.51
36:1:1246:G:H2'	36:1:1247:U:O4'	2.11	0.51
36:1:1711:C:H2'	36:1:1712:G:O4'	2.11	0.51
36:1:2714:G:H4'	36:1:2715:A:O5'	2.11	0.51
36:1:2853:A:O3'	47:M0:64:ALA:HB2	2.10	0.51
44:L7:224:ILE:HD13	56:N0:39:SER:HB2	1.93	0.51
48:M1:60:ARG:HB2	48:M1:60:ARG:NH1	2.26	0.51
50:M4:85:TRP:NE1	50:M4:90:VAL:HB	2.26	0.51
57:N1:40:VAL:HA	57:N1:97:LYS:O	2.10	0.51
68:O2:22:SER:HA	68:O2:28:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:68:A:H5'	8:s6:160:ARG:HH12	1.74	0.51
80:6:386:G:H2'	80:6:387:A:C8	2.45	0.51
80:6:891:A:H2'	80:6:892:A:C8	2.45	0.51
80:6:1060:U:H4'	80:6:1061:A:H5''	1.92	0.51
80:6:1383:G:H1'	22:d0:57:ARG:NH1	2.26	0.51
80:6:1489:U:H5'	80:6:1494:C:H1'	1.92	0.51
80:6:1546:G:OP1	20:c8:123:ARG:NH1	2.42	0.51
80:6:1735:U:O4	87:6:1978:OHX:N3	2.43	0.51
2:s0:180:GLU:HA	2:s0:183:ARG:HB2	1.91	0.51
6:s4:105:VAL:HG21	6:s4:245:LYS:H	1.76	0.51
9:s7:9:LEU:O	9:s7:10:SER:OG	2.21	0.51
11:s9:93:LEU:HA	11:s9:96:VAL:HG22	1.93	0.51
36:5:278:U:OP2	78:q2:49:GLY:HA3	2.11	0.51
36:5:1094:U:O3'	36:5:1095:U:H3'	2.11	0.51
36:5:1750:A:H4'	36:5:1751:G:H5'	1.92	0.51
36:5:1834:U:OP1	75:o9:5:LYS:HD2	2.11	0.51
36:5:2171:G:H2'	36:5:2172:A:H8	1.76	0.51
44:l7:228:SER:HA	44:l7:232:ARG:NH2	2.25	0.51
45:l8:161:GLU:N	45:l8:161:GLU:OE2	2.43	0.51
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.45	0.51
47:m0:208:ASN:HB3	47:m0:211:ARG:HD2	1.92	0.51
50:m4:120:VAL:O	50:m4:124:ARG:HB2	2.10	0.51
53:m7:69:ARG:HG2	53:m7:79:THR:CG2	2.38	0.51
53:m7:128:ARG:HG2	53:m7:136:ILE:CG2	2.40	0.51
64:n8:128:ARG:HB2	72:o6:8:ALA:HB2	1.91	0.51
84:p0:40:GLU:OE1	84:p0:104:ARG:NH1	2.44	0.51
1:2:14:C:H5''	4:S2:203:LYS:HD2	1.93	0.51
1:2:218:A:N6	1:2:844:A:H1'	2.26	0.51
1:2:760:A:H2'	1:2:761:G:O4'	2.11	0.51
3:S1:107:THR:HG21	16:C4:117:ASP:O	2.11	0.51
6:S4:208:VAL:HG11	6:S4:225:VAL:HG21	1.92	0.51
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.21	0.51
25:D3:52:ILE:O	25:D3:74:VAL:HA	2.11	0.51
34:SR:300:THR:HG23	34:SR:314:GLN:HG3	1.92	0.51
36:1:33:G:H1'	36:1:52:A:H61	1.76	0.51
36:1:541:U:H2'	36:1:542:G:C8	2.46	0.51
36:1:2432:A:C5	36:1:2433:U:C5	2.98	0.51
36:1:3212:C:H2'	36:1:3213:A:O4'	2.11	0.51
38:4:104:A:H3'	38:4:105:A:H5''	1.93	0.51
41:L4:33:ASP:O	41:L4:36:HIS:N	2.44	0.51
42:L5:208:MET:HE2	42:L5:233:ALA:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.93	0.51
50:M4:121:MET:O	50:M4:125:LYS:HG2	2.10	0.51
54:M8:30:VAL:O	54:M8:34:THR:HG23	2.10	0.51
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.76	0.51
78:Q2:71:ARG:HH21	78:Q2:80:ARG:NH1	2.08	0.51
80:6:214:G:N7	87:6:2005:OHX:N4	2.59	0.51
80:6:357:G:N7	87:6:1929:OHX:N6	2.58	0.51
80:6:1754:A:O2'	87:6:1915:OHX:N4	2.44	0.51
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.44	0.51
7:s5:90:ILE:HD11	7:s5:130:ILE:HG13	1.92	0.51
7:s5:166:ARG:HA	7:s5:169:ASN:HB2	1.93	0.51
10:s8:76:THR:HG21	10:s8:105:ASP:O	2.10	0.51
31:d9:30:LEU:HD13	31:d9:32:ARG:HD3	1.93	0.51
36:5:394:G:N2	36:5:396:A:H3'	2.25	0.51
36:5:618:C:H2'	36:5:619:A:C8	2.45	0.51
36:5:999:G:C6	36:5:1000:C:N4	2.79	0.51
36:5:1259:A:H5'	84:p0:53:MET:O	2.11	0.51
36:5:2687:G:N7	87:5:3419:OHX:N1	2.59	0.51
87:5:3713:OHX:N2	54:m8:146:SER:OG	2.43	0.51
42:l5:122:VAL:HG11	42:l5:168:ASP:HB3	1.92	0.51
42:l5:295:GLY:O	87:l5:302:OHX:N4	2.44	0.51
46:l9:176:LEU:HB3	76:q0:86:ALA:HB1	1.92	0.51
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.43	0.51
51:m5:118:SER:HB3	51:m5:132:VAL:HG22	1.91	0.51
52:m6:110:PRO:HB2	52:m6:111:PRO:CD	2.41	0.51
54:m8:111:ARG:O	54:m8:115:VAL:HG23	2.10	0.51
60:n4:20:LEU:HD23	60:n4:20:LEU:C	2.35	0.51
78:q2:38:GLN:HE21	78:q2:38:GLN:CA	2.22	0.51
78:q2:73:GLU:HA	78:q2:80:ARG:HA	1.93	0.51
1:2:217:A:H2'	1:2:217:A:OP1	2.10	0.51
1:2:540:G:O3'	1:2:541:A:H3'	2.11	0.51
1:2:1217:A:H5''	12:C0:1:MET:HG3	1.92	0.51
1:2:1433:G:C4	31:D9:41:GLN:HB3	2.46	0.51
1:2:1470:C:OP1	1:2:1540:G:O2'	2.25	0.51
2:S0:155:PHE:O	23:D1:60:ARG:NH2	2.42	0.51
7:S5:149:VAL:O	7:S5:155:ALA:HB1	2.11	0.51
12:C0:24:LYS:HB2	12:C0:63:TYR:CE1	2.46	0.51
20:C8:26:ILE:HD12	20:C8:27:LYS:N	2.25	0.51
27:D5:50:ILE:O	27:D5:54:VAL:HG23	2.11	0.51
36:1:1316:C:C4	52:M6:131:PRO:HD3	2.46	0.51
36:1:1733:G:O5'	87:1:3805:OHX:N2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:90:U:C4	37:3:91:G:C5	2.99	0.51
43:L6:30:LEU:HD13	43:L6:34:LEU:HD13	1.92	0.51
44:L7:163:LEU:O	44:L7:165:ASP:N	2.42	0.51
49:M3:159:VAL:HG11	64:N8:142:GLY:O	2.11	0.51
50:M4:108:ARG:NH2	52:M6:196:ALA:O	2.43	0.51
53:M7:52:LEU:HD13	53:M7:88:VAL:HG11	1.93	0.51
73:O7:74:PHE:HA	73:O7:78:PHE:CE2	2.45	0.51
80:6:386:G:C6	80:6:387:A:N6	2.79	0.51
80:6:775:G:C2	80:6:786:C:C4	2.99	0.51
80:6:1766:A:O4'	80:6:1794:A:C5	2.63	0.51
21:c9:25:GLN:O	21:c9:27:LYS:HG3	2.11	0.51
26:d4:132:ARG:HG2	26:d4:133:ASN:N	2.25	0.51
36:5:23:A:OP1	87:5:3408:OHX:N4	2.43	0.51
36:5:260:C:H2'	36:5:261:U:O4'	2.11	0.51
36:5:272:G:OP2	87:5:3576:OHX:N6	2.44	0.51
36:5:743:C:N3	54:m8:141:ARG:NH1	2.58	0.51
36:5:1018:G:H2'	36:5:1019:G:O4'	2.10	0.51
36:5:1141:C:OP2	87:5:3615:OHX:N1	2.44	0.51
36:5:1814:A:OP1	87:5:3697:OHX:N1	2.44	0.51
36:5:2661:G:O2'	36:5:2662:G:H5'	2.10	0.51
36:5:3178:A:C2	52:m6:115:LYS:HG2	2.46	0.51
40:l3:92:TYR:CE2	40:l3:101:SER:HB3	2.45	0.51
40:l3:227:GLU:HG3	40:l3:270:ARG:NE	2.25	0.51
40:l3:252:ILE:HG12	40:l3:266:ARG:NH2	2.25	0.51
41:l4:209:TYR:CE2	41:l4:229:ASN:HB2	2.46	0.51
45:l8:134:TYR:CG	45:l8:190:VAL:HG11	2.46	0.51
52:m6:7:VAL:HG23	52:m6:31:GLN:NE2	2.26	0.51
52:m6:109:PRO:O	52:m6:110:PRO:O	2.28	0.51
53:m7:67:ILE:HA	53:m7:82:ARG:NH2	2.26	0.51
58:n2:36:TYR:CD2	58:n2:83:TYR:HB2	2.46	0.51
60:n4:132:GLY:O	60:n4:134:GLN:HG2	2.10	0.51
66:o0:84:LEU:HD12	66:o0:84:LEU:N	2.22	0.51
79:q3:49:ARG:CD	79:q3:50:GLY:H	2.24	0.51
86:B:3401:C:H2'	86:B:3402:C:H5'	1.93	0.51
1:2:327:U:H2'	1:2:328:A:C8	2.46	0.51
1:2:502:U:H2'	1:2:503:G:O4'	2.11	0.51
1:2:706:A:C6	1:2:734:A:N6	2.79	0.51
1:2:1018:U:H2'	1:2:1019:A:H8	1.75	0.51
1:2:1145:U:O2'	4:S2:89:GLN:O	2.22	0.51
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.92	0.51
2:S0:200:ASP:OD1	2:S0:200:ASP:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:18:TYR:HE1	5:S3:37:VAL:HG23	1.75	0.51
11:S9:122:VAL:HG23	11:S9:123:HIS:HD2	1.74	0.51
14:C2:62:LEU:HA	14:C2:120:VAL:HA	1.91	0.51
15:C3:123:HIS:CE1	15:C3:141:TYR:HD2	2.28	0.51
26:D4:35:VAL:HG21	26:D4:40:LEU:HD11	1.92	0.51
34:SR:184:ASN:OD1	34:SR:184:ASN:N	2.44	0.51
36:1:439:C:H3'	36:1:440:A:O4'	2.11	0.51
36:1:1549:U:H2'	36:1:1550:C:C6	2.45	0.51
36:1:2518:C:OP1	87:1:3672:OHX:N5	2.43	0.51
36:1:2869:U:H5''	36:1:2870:C:OP2	2.11	0.51
36:1:3393:U:H2'	36:1:3394:U:C6	2.45	0.51
41:L4:38:VAL:O	41:L4:42:VAL:HG23	2.10	0.51
47:M0:49:CYS:HB3	47:M0:168:SER:HB3	1.92	0.51
51:M5:106:VAL:O	51:M5:109:ARG:N	2.43	0.51
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.92	0.51
74:O8:54:LEU:HD21	74:O8:56:ILE:HD11	1.93	0.51
80:6:37:U:O2'	80:6:770:A:N1	2.44	0.51
80:6:86:A:O2'	80:6:87:C:H5'	2.10	0.51
80:6:93:A:H1'	6:s4:3:ARG:HB3	1.92	0.51
80:6:208:U:H4'	10:s8:176:SER:HB3	1.92	0.51
80:6:846:G:H2'	80:6:847:A:C8	2.46	0.51
80:6:939:A:H2'	80:6:940:A:C8	2.46	0.51
80:6:1336:A:OP1	87:6:2043:OHX:N1	2.43	0.51
80:6:1680:G:O6	87:6:2069:OHX:N3	2.44	0.51
4:s2:88:LYS:HD2	4:s2:95:ARG:CZ	2.41	0.51
4:s2:180:ALA:HB1	4:s2:184:VAL:HB	1.93	0.51
18:c6:100:GLN:O	18:c6:104:GLU:HG3	2.11	0.51
24:d2:112:ASP:OD1	24:d2:114:GLU:HB3	2.10	0.51
33:e1:123:ASN:O	33:e1:125:THR:N	2.43	0.51
36:5:124:U:H1'	36:5:149:U:O2	2.11	0.51
36:5:585:A:H2'	36:5:586:C:C6	2.46	0.51
36:5:650:C:H2'	36:5:651:G:C8	2.46	0.51
36:5:2157:G:N1	36:5:2178:A:OP2	2.35	0.51
36:5:3195:U:O2	36:5:3195:U:H2'	2.11	0.51
37:7:7:G:OP1	42:l5:33:ARG:NH1	2.44	0.51
38:8:76:C:H2'	38:8:77:A:O4'	2.11	0.51
39:l2:83:HIS:CE1	39:l2:86:GLN:HB2	2.46	0.51
40:l3:50:LYS:HE2	40:l3:328:ILE:HG22	1.92	0.51
42:l5:88:ILE:HD12	42:l5:240:TYR:HE1	1.76	0.51
51:m5:143:ARG:HH21	71:o5:92:LEU:HA	1.76	0.51
52:m6:12:LYS:HA	52:m6:40:GLU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:n4:126:GLU:OE2	60:n4:129:LYS:NZ	2.44	0.51
61:n5:38:LEU:HD13	61:n5:40:LEU:HD21	1.93	0.51
67:o1:80:ASN:ND2	67:o1:85:ALA:HB3	2.25	0.51
86:A:3401:C:H2'	86:A:3402:C:H5'	1.93	0.51
1:2:577:G:H3'	1:2:577:G:H8	1.76	0.51
1:2:982:U:O2'	1:2:983:A:H5'	2.11	0.51
1:2:1144:U:O2'	1:2:1301:U:H4'	2.10	0.51
1:2:1238:A:H2'	1:2:1239:U:O4'	2.11	0.51
1:2:1253:U:H4'	33:E1:143:LYS:N	2.26	0.51
1:2:1288:G:C2	1:2:1289:U:C6	2.99	0.51
1:2:1450:U:H2'	1:2:1451:C:C6	2.46	0.51
1:2:1520:U:O2	87:2:1937:OHX:N6	2.44	0.51
87:2:1909:OHX:N6	87:2:2035:OHX:N5	2.59	0.51
87:2:1909:OHX:N3	87:2:2035:OHX:N5	2.58	0.51
8:S6:77:LEU:HB3	8:S6:81:VAL:HG11	1.92	0.51
15:C3:50:ILE:HG22	15:C3:71:ILE:HD13	1.92	0.51
25:D3:107:PHE:CE2	25:D3:114:LYS:HB2	2.46	0.51
33:E1:121:CYS:SG	33:E1:141:CYS:HB2	2.51	0.51
36:1:380:U:H2'	36:1:381:U:H6	1.76	0.51
36:1:391:A:OP2	87:1:3701:OHX:N1	2.45	0.51
36:1:2316:G:C6	36:1:2317:A:C5	2.99	0.51
36:1:2719:U:O4	87:1:3706:OHX:N3	2.44	0.51
87:1:3535:OHX:N4	87:1:3747:OHX:N3	2.58	0.51
42:L5:96:ALA:HB2	42:L5:198:TYR:O	2.11	0.51
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.93	0.51
51:M5:75:VAL:HG22	51:M5:79:ALA:O	2.11	0.51
61:N5:100:LYS:NZ	61:N5:106:ASP:HA	2.26	0.51
70:O4:10:ARG:HD2	75:O9:4:GLN:NE2	2.26	0.51
72:O6:25:LYS:O	72:O6:28:TYR:HB2	2.11	0.51
80:6:1754:A:H4'	80:6:1755:A:O5'	2.11	0.51
5:s3:80:ALA:O	5:s3:83:THR:OG1	2.29	0.51
6:s4:208:VAL:HG12	6:s4:210:ILE:HD11	1.92	0.51
23:d1:5:LYS:O	23:d1:7:GLN:N	2.43	0.51
23:d1:40:ASP:HB3	23:d1:46:ILE:HD11	1.92	0.51
36:5:196:G:C2	36:5:199:A:C8	2.99	0.51
36:5:604:G:N7	87:5:3681:OHX:N2	2.58	0.51
36:5:663:C:H2'	36:5:664:U:H6	1.76	0.51
36:5:750:G:H2'	36:5:751:A:H8	1.76	0.51
36:5:2129:U:H2'	36:5:2130:G:C8	2.46	0.51
36:5:2193:U:H5''	36:5:2194:G:H5'	1.93	0.51
36:5:3177:G:O2'	36:5:3179:U:OP1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:116:VAL:HG13	39:l2:126:LEU:HD12	1.93	0.51
41:l4:13:GLY:O	41:l4:14:GLU:HG2	2.11	0.51
50:m4:135:LEU:HD13	50:m4:135:LEU:O	2.11	0.51
64:n8:47:LYS:HE3	64:n8:48:TYR:CZ	2.46	0.51
64:n8:128:ARG:HB2	72:o6:8:ALA:CB	2.41	0.51
72:o6:58:ILE:HG22	72:o6:90:MET:CG	2.41	0.51
1:2:474:A:OP2	11:S9:44:ARG:NH1	2.43	0.50
1:2:487:G:C6	1:2:488:G:C8	3.00	0.50
1:2:1111:G:C2	1:2:1112:G:H1'	2.46	0.50
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.46	0.50
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.93	0.50
3:S1:121:ILE:HG12	3:S1:161:ILE:HG23	1.93	0.50
5:S3:168:ILE:O	5:S3:168:ILE:HD12	2.11	0.50
6:S4:185:GLY:N	6:S4:189:LEU:HD13	2.26	0.50
6:S4:206:ASP:OD1	6:S4:206:ASP:N	2.44	0.50
10:S8:26:LYS:O	10:S8:29:LEU:HB3	2.11	0.50
16:C4:42:VAL:HA	16:C4:46:MET:SD	2.51	0.50
19:C7:13:SER:HA	19:C7:54:THR:HG23	1.92	0.50
20:C8:88:ARG:NH1	20:C8:112:ASP:OD1	2.44	0.50
21:C9:57:ARG:NH2	21:C9:80:TYR:HB3	2.19	0.50
24:D2:104:LEU:HA	24:D2:126:LEU:H	1.77	0.50
34:SR:249:ARG:NH1	34:SR:298:GLY:O	2.44	0.50
36:1:208:C:C2'	36:1:209:A:H5'	2.40	0.50
36:1:776:U:C5	36:1:2719:U:O2	2.60	0.50
36:1:845:G:O6	87:1:3459:OHX:N3	2.44	0.50
36:1:905:U:O2'	36:1:910:G:O3'	2.27	0.50
36:1:1233:G:H1	36:1:1255:C:N4	1.98	0.50
36:1:1245:A:N6	36:1:1272:C:O2'	2.44	0.50
36:1:2855:U:OP2	47:M0:6:ALA:HB3	2.12	0.50
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.10	0.50
36:1:3277:U:H2'	53:M7:175:ARG:HH22	1.77	0.50
40:L3:187:SER:HB3	40:L3:190:GLU:OE1	2.11	0.50
41:L4:99:MET:HG3	41:L4:102:PRO:HB3	1.93	0.50
42:L5:40:HIS:CD2	42:L5:42:ALA:H	2.29	0.50
46:L9:94:TYR:CZ	46:L9:98:PRO:HA	2.45	0.50
47:M0:116:ARG:O	47:M0:116:ARG:HG3	2.10	0.50
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.41	0.50
52:M6:73:PHE:CD1	52:M6:78:ARG:HG2	2.46	0.50
64:N8:74:ASN:HB2	64:N8:76:ASP:CB	2.41	0.50
80:6:51:A:OP1	87:6:1922:OHX:N3	2.43	0.50
80:6:990:C:H2'	80:6:991:G:O4'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1783:C:H2'	80:6:1784:C:H6	1.75	0.50
2:s0:60:ALA:O	2:s0:64:ILE:HG13	2.11	0.50
2:s0:71:GLU:HA	2:s0:95:ALA:N	2.26	0.50
2:s0:105:GLY:N	2:s0:135:GLU:OE2	2.38	0.50
9:s7:172:VAL:HG12	9:s7:176:LEU:HD12	1.92	0.50
15:c3:112:LYS:O	15:c3:116:ILE:HD12	2.11	0.50
34:sR:33:LEU:O	34:sR:45:TRP:HD1	1.94	0.50
34:sR:123:ILE:HD12	34:sR:154:VAL:HG23	1.92	0.50
36:5:8:C:H2'	36:5:9:U:O4'	2.11	0.50
36:5:1062:A:OP2	87:5:3758:OHX:N5	2.44	0.50
36:5:1499:C:H2'	36:5:1500:G:C8	2.46	0.50
36:5:2124:G:O2'	36:5:2125:A:H5'	2.11	0.50
36:5:2620:G:O6	87:5:3632:OHX:N4	2.44	0.50
36:5:2649:A:C2	36:5:2650:U:C5	2.99	0.50
36:5:2658:G:C5	36:5:2659:G:N7	2.79	0.50
36:5:2761:G:N7	78:q2:63:LYS:NZ	2.53	0.50
41:l4:187:LEU:HD21	41:l4:198:ARG:NH2	2.26	0.50
42:l5:53:VAL:O	42:l5:54:ARG:HD3	2.10	0.50
43:l6:2:SER:HB2	68:o2:81:ASP:CG	2.36	0.50
44:l7:144:ILE:O	44:l7:148:VAL:HG23	2.11	0.50
45:l8:122:LYS:C	45:l8:124:ASP:H	2.19	0.50
53:m7:47:TYR:OH	53:m7:58:ILE:HD13	2.11	0.50
53:m7:146:ILE:HG22	53:m7:147:GLU:H	1.75	0.50
62:n6:5:SER:C	62:n6:7:ASP:H	2.18	0.50
64:n8:46:ASP:OD1	64:n8:46:ASP:N	2.43	0.50
65:n9:58:LYS:HA	65:n9:58:LYS:HZ3	1.75	0.50
1:2:805:U:H2'	1:2:806:A:H5''	1.94	0.50
1:2:858:G:OP1	9:S7:116:ARG:NH2	2.43	0.50
1:2:1320:U:O2	1:2:1322:A:H5'	2.10	0.50
1:2:1452:U:N3	1:2:1453:G:N7	2.59	0.50
1:2:1794:A:H1'	28:D6:79:ILE:HD12	1.94	0.50
2:S0:50:VAL:O	2:S0:53:THR:HB	2.11	0.50
2:S0:133:ILE:H	2:S0:133:ILE:HD12	1.75	0.50
2:S0:185:ARG:NH1	23:D1:47:PRO:HG3	2.26	0.50
6:S4:42:LEU:CD2	6:S4:46:VAL:HB	2.41	0.50
6:S4:234:PRO:O	6:S4:235:TYR:CD2	2.65	0.50
14:C2:58:LEU:HD12	14:C2:126:TRP:CD2	2.45	0.50
18:C6:40:GLU:HG3	18:C6:42:GLU:HB2	1.93	0.50
20:C8:146:ALA:H	35:SM:68:ARG:NH2	2.09	0.50
36:1:65:A:H2'	36:1:110:G:N7	2.26	0.50
36:1:380:U:H2'	36:1:381:U:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:508:U:H2'	36:1:509:U:H6	1.76	0.50
36:1:572:A:H2'	36:1:573:C:C6	2.46	0.50
36:1:807:A:H2	36:1:808:A:C8	2.28	0.50
36:1:956:U:H2'	36:1:957:C:C6	2.46	0.50
36:1:1236:G:N2	36:1:1244:A:H4'	2.26	0.50
36:1:1569:U:H5''	36:1:1570:U:C6	2.46	0.50
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.44	0.50
36:1:2117:A:H4'	36:1:3081:C:O4'	2.12	0.50
36:1:2164:A:N6	36:1:2165:G:C6	2.79	0.50
36:1:2337:C:H2'	36:1:2338:C:C6	2.46	0.50
36:1:2812:C:O2'	36:1:2813:A:H5'	2.11	0.50
37:3:85:G:O3'	44:L7:218:ARG:NH2	2.45	0.50
38:4:71:A:O2'	62:N6:52:ARG:NH2	2.44	0.50
41:L4:60:THR:HG21	41:L4:77:VAL:HG22	1.93	0.50
45:L8:71:VAL:HG22	51:M5:21:PHE:CZ	2.46	0.50
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.24	0.50
74:O8:20:VAL:HG11	74:O8:45:VAL:HG12	1.93	0.50
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.93	0.50
80:6:751:G:H2'	80:6:752:A:H8	1.76	0.50
80:6:1153:G:H2'	80:6:1154:G:O4'	2.11	0.50
80:6:1163:A:N3	80:6:1613:U:O2'	2.38	0.50
80:6:1460:A:OP2	82:sM:68:ARG:HD3	2.11	0.50
3:s1:121:ILE:HD13	3:s1:161:ILE:HG23	1.92	0.50
7:s5:63:GLN:HB3	7:s5:88:PRO:HA	1.93	0.50
19:c7:30:THR:HG22	34:sR:127:ARG:NH2	2.27	0.50
22:d0:97:VAL:HG13	22:d0:98:GLN:H	1.75	0.50
22:d0:100:VAL:O	22:d0:104:THR:HG23	2.10	0.50
23:d1:73:ALA:HB1	23:d1:79:LEU:HG	1.93	0.50
34:sR:101:GLN:HG2	34:sR:137:LYS:C	2.36	0.50
36:5:25:U:H4'	36:5:26:A:N7	2.26	0.50
36:5:44:U:H4'	78:q2:54:THR:HG22	1.92	0.50
36:5:1656:A:H4'	36:5:1657:C:O4'	2.10	0.50
36:5:2113:A:N7	36:5:2114:C:C4	2.80	0.50
36:5:2537:U:O2'	36:5:2538:U:O5'	2.27	0.50
36:5:2726:C:O2'	36:5:2727:A:H2'	2.11	0.50
42:l5:178:ASN:HA	42:l5:183:TRP:CD1	2.46	0.50
42:l5:197:SER:O	42:l5:202:GLY:N	2.37	0.50
42:l5:261:THR:OG1	42:l5:264:GLN:HG3	2.11	0.50
44:l7:52:GLN:O	44:l7:56:GLU:HB2	2.11	0.50
48:m1:34:SER:HB2	48:m1:67:VAL:HG21	1.92	0.50
56:n0:125:LYS:HG3	56:n0:126:VAL:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:54:THR:OG1	63:n7:55:LYS:N	2.44	0.50
1:2:6:G:OP2	4:S2:205:ARG:HD2	2.10	0.50
1:2:196:G:O2'	1:2:197:A:OP2	2.28	0.50
1:2:705:U:OP1	1:2:705:U:H4'	2.12	0.50
1:2:812:A:OP1	1:2:814:A:C8	2.64	0.50
1:2:1089:U:O2'	1:2:1090:C:H5'	2.10	0.50
1:2:1338:C:H1'	1:2:1410:A:C4	2.46	0.50
1:2:1535:U:H5''	7:S5:187:ILE:HD11	1.93	0.50
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.12	0.50
3:S1:111:ARG:HG3	28:D6:68:TYR:HB2	1.94	0.50
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.94	0.50
18:C6:58:ASP:OD2	18:C6:59:LYS:N	2.44	0.50
18:C6:115:THR:HA	18:C6:118:ILE:HG23	1.93	0.50
22:D0:117:VAL:HG13	22:D0:118:VAL:N	2.26	0.50
36:1:81:C:H2'	36:1:82:C:H6	1.76	0.50
36:1:128:G:O6	87:1:3793:OHX:N5	2.44	0.50
36:1:192:C:H2'	36:1:193:C:C6	2.47	0.50
36:1:567:G:O6	87:1:3541:OHX:N1	2.44	0.50
36:1:612:U:O5'	43:L6:21:THR:HG21	2.11	0.50
36:1:1668:G:H1	36:1:1781:C:N4	2.08	0.50
36:1:2124:G:C2	36:1:2330:C:C2	2.99	0.50
36:1:2174:G:H8	36:1:2174:G:OP1	1.94	0.50
36:1:2659:G:C2	36:1:2712:U:O2	2.65	0.50
36:1:2746:A:H2'	36:1:2747:A:O4'	2.11	0.50
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.93	0.50
41:L4:292:SER:HB3	41:L4:295:ILE:HB	1.93	0.50
44:L7:96:PRO:O	44:L7:100:ARG:HB2	2.12	0.50
44:L7:113:SER:HB2	44:L7:205:PHE:O	2.11	0.50
46:L9:27:VAL:HG11	46:L9:79:ILE:HA	1.93	0.50
46:L9:47:LYS:HZ2	50:M4:5:SER:HB2	1.76	0.50
49:M3:46:ILE:O	49:M3:49:ARG:HB2	2.10	0.50
55:M9:7:GLN:O	55:M9:11:ALA:N	2.43	0.50
56:N0:87:THR:C	56:N0:88:HIS:ND1	2.69	0.50
60:N4:3:VAL:HG11	60:N4:12:LYS:HD3	1.92	0.50
63:N7:105:SER:HA	63:N7:108:GLU:OE2	2.11	0.50
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.46	0.50
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	1.93	0.50
73:O7:17:THR:O	73:O7:25:ARG:HA	2.11	0.50
80:6:271:A:C2	80:6:285:G:C6	2.99	0.50
80:6:329:G:H5''	10:s8:98:LYS:HB3	1.93	0.50
80:6:756:A:H1'	6:s4:12:LEU:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:64:ILE:HG23	2:s0:73:VAL:HG11	1.92	0.50
11:s9:34:PHE:HD1	11:s9:111:THR:HG21	1.76	0.50
11:s9:66:ASP:HB3	11:s9:69:ARG:HB3	1.93	0.50
18:c6:115:THR:HG23	18:c6:118:ILE:O	2.10	0.50
19:c7:88:VAL:HG22	19:c7:89:SER:O	2.11	0.50
36:5:184:U:H2'	36:5:185:C:C6	2.46	0.50
36:5:1565:G:N2	36:5:1566:A:H1'	2.27	0.50
36:5:2102:U:H2'	36:5:2103:U:C6	2.46	0.50
38:8:59:A:OP1	38:8:98:U:O2'	2.12	0.50
40:l3:344:THR:HG22	40:l3:344:THR:O	2.09	0.50
44:l7:87:VAL:HA	44:l7:114:GLY:HA2	1.94	0.50
44:l7:203:TRP:CD1	44:l7:204:PRO:HD2	2.46	0.50
53:m7:32:THR:HG21	53:m7:87:SER:CB	2.36	0.50
59:n3:114:ILE:HD12	59:n3:132:ASN:C	2.37	0.50
61:n5:31:THR:HG22	61:n5:33:ARG:HD2	1.92	0.50
66:o0:100:ILE:HG13	66:o0:101:LEU:HD22	1.93	0.50
84:p0:12:PHE:CE2	84:p0:62:ALA:HB2	2.46	0.50
1:2:969:C:H5''	1:2:969:C:H6	1.76	0.50
1:2:1589:C:H2'	1:2:1590:G:C8	2.46	0.50
8:S6:19:ASP:O	8:S6:20:ASP:HB2	2.11	0.50
14:C2:119:SER:OG	14:C2:120:VAL:N	2.44	0.50
21:C9:76:LEU:O	21:C9:80:TYR:HD2	1.94	0.50
22:D0:84:MET:HB2	31:D9:51:GLY:O	2.12	0.50
29:D7:34:ASP:OD1	29:D7:34:ASP:N	2.43	0.50
36:1:1668:G:C5	36:1:1669:C:C5	2.99	0.50
36:1:1861:G:O6	87:1:3534:OHX:N2	2.45	0.50
36:1:2444:C:H3'	36:1:2445:A:H5''	1.93	0.50
36:1:2552:C:C5	66:O0:53:LYS:HE3	2.47	0.50
36:1:2850:G:O6	87:1:3616:OHX:N6	2.45	0.50
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.44	0.50
37:3:58:C:OP2	87:3:205:OHX:N6	2.44	0.50
40:L3:60:LEU:HD11	40:L3:62:ARG:HB2	1.93	0.50
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.11	0.50
42:L5:160:PHE:HA	42:L5:163:LEU:HB2	1.94	0.50
44:L7:158:LYS:CE	44:L7:159:GLN:H	2.25	0.50
46:L9:155:SER:O	46:L9:158:ALA:HB3	2.11	0.50
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.46	0.50
62:N6:45:ILE:CD1	62:N6:119:ILE:HG23	2.39	0.50
72:O6:2:THR:HG1	72:O6:3:VAL:H	1.51	0.50
73:O7:21:ARG:HH12	73:O7:44:THR:HA	1.77	0.50
75:O9:23:LEU:HD22	75:O9:24:PRO:CD	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:532:U:OP1	11:s9:132:ARG:NH2	2.44	0.50
80:6:741:C:O2	9:s7:107:ARG:NH2	2.44	0.50
80:6:872:G:H2'	80:6:873:U:O4'	2.12	0.50
80:6:1039:A:H61	80:6:1079:U:H3	1.59	0.50
3:s1:103:MET:H	3:s1:215:VAL:HG13	1.76	0.50
8:s6:78:THR:HG23	8:s6:92:ARG:HG2	1.92	0.50
11:s9:44:ARG:HG2	11:s9:45:ILE:HG12	1.94	0.50
13:c1:80:MET:HB3	13:c1:83:THR:HG23	1.94	0.50
19:c7:77:GLU:HG2	19:c7:80:ARG:HH21	1.77	0.50
20:c8:145:ARG:HG3	82:sM:68:ARG:HH22	1.76	0.50
27:d5:47:TYR:CE2	27:d5:51:LEU:HD11	2.46	0.50
34:sR:52:GLN:O	34:sR:54:PHE:N	2.44	0.50
34:sR:183:LEU:HD12	34:sR:186:PHE:HD1	1.76	0.50
36:5:528:U:H2'	36:5:529:A:C8	2.47	0.50
36:5:942:U:N3	64:n8:16:SER:HA	2.26	0.50
36:5:1081:U:O2'	36:5:1082:U:O5'	2.25	0.50
36:5:1816:A:O2'	36:5:1817:G:H5''	2.12	0.50
36:5:1846:C:H5'	36:5:1849:C:N4	2.26	0.50
36:5:2419:A:H1'	36:5:2804:A:O4'	2.11	0.50
36:5:2611:U:H2'	36:5:2612:U:H6	1.75	0.50
36:5:2883:U:OP2	87:5:3563:OHX:N4	2.45	0.50
36:5:2947:G:N2	36:5:2948:C:C2	2.80	0.50
36:5:3160:U:H3	36:5:3290:G:H1	1.59	0.50
36:5:3320:A:H4'	40:l3:174:LYS:NZ	2.25	0.50
45:l8:30:THR:O	45:l8:30:THR:OG1	2.27	0.50
45:l8:93:LEU:HD21	45:l8:211:LEU:HD23	1.93	0.50
47:m0:152:LEU:O	47:m0:155:ALA:N	2.44	0.50
70:o4:8:ARG:NH2	70:o4:31:ARG:HD2	2.26	0.50
71:o5:5:LYS:O	71:o5:9:LEU:HG	2.12	0.50
1:2:1157:A:H3'	1:2:1157:A:C8	2.47	0.50
1:2:1340:U:N3	1:2:1378:U:H4'	2.26	0.50
1:2:1435:G:O6	12:C0:64:TYR:OH	2.17	0.50
1:2:1629:G:H2'	1:2:1630:U:C6	2.47	0.50
1:2:1769:U:O2	16:C4:136:ARG:HD2	2.12	0.50
1:2:1777:G:H2'	1:2:1778:G:H8	1.77	0.50
3:S1:129:THR:HG22	3:S1:176:VAL:HG12	1.93	0.50
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.11	0.50
18:C6:12:LYS:HD2	18:C6:17:THR:HG22	1.94	0.50
32:E0:41:THR:HA	32:E0:45:VAL:HB	1.94	0.50
33:E1:109:ASP:HB2	33:E1:113:LYS:HG2	1.92	0.50
36:1:1064:A:H5''	36:1:1066:G:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1464:G:N2	36:1:1466:G:H3'	2.27	0.50
36:1:1728:G:H5''	36:1:1730:G:O4'	2.12	0.50
36:1:2185:G:C5	36:1:2186:U:C5	3.00	0.50
36:1:2337:C:H2'	36:1:2338:C:H6	1.77	0.50
36:1:2703:A:H5''	36:1:2704:A:C5'	2.41	0.50
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.45	0.50
38:4:121:U:H2'	38:4:122:U:C6	2.47	0.50
39:L2:130:SER:HA	39:L2:169:ILE:HG22	1.93	0.50
41:L4:52:VAL:CG1	41:L4:99:MET:HE3	2.42	0.50
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.45	0.50
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.47	0.50
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.44	0.50
57:N1:102:ARG:O	57:N1:106:LEU:HD22	2.12	0.50
80:6:337:G:H5''	80:6:337:G:C8	2.46	0.50
80:6:886:U:O2'	16:c4:121:VAL:O	2.28	0.50
80:6:1229:G:C6	14:c2:47:GLU:HG2	2.46	0.50
80:6:1241:G:H5''	17:c5:102:PHE:CZ	2.46	0.50
80:6:1287:A:H4'	80:6:1288:G:OP1	2.11	0.50
80:6:1372:U:H2'	80:6:1373:C:C6	2.47	0.50
87:6:1920:OHX:N6	87:6:2098:OHX:N2	2.59	0.50
6:s4:159:THR:HG22	6:s4:227:VAL:HB	1.94	0.50
26:d4:60:PHE:HA	26:d4:70:VAL:O	2.12	0.50
33:e1:130:VAL:HG22	33:e1:143:LYS:HG2	1.93	0.50
36:5:1168:U:O4	36:5:1329:U:H2'	2.12	0.50
36:5:1252:A:C5	36:5:1253:U:C5	3.00	0.50
36:5:1490:A:H5''	36:5:1491:A:OP2	2.12	0.50
36:5:1948:G:C2	36:5:1949:G:C8	2.99	0.50
36:5:2276:G:C5	36:5:2277:C:C5	3.00	0.50
36:5:3208:G:O3'	56:n0:161:LYS:NZ	2.44	0.50
42:l5:52:VAL:HG21	42:l5:65:ILE:HG13	1.94	0.50
42:l5:279:LYS:HZ3	42:l5:282:ARG:HH22	1.57	0.50
43:l6:58:LEU:HD12	43:l6:78:ARG:HD3	1.94	0.50
45:l8:130:TYR:CD1	45:l8:202:GLU:HB3	2.47	0.50
51:m5:184:LYS:H	51:m5:186:GLY:H	1.58	0.50
55:m9:94:VAL:O	55:m9:97:ARG:HB2	2.11	0.50
68:o2:3:SER:HB3	68:o2:71:HIS:NE2	2.26	0.50
68:o2:103:LYS:O	68:o2:106:VAL:HG22	2.12	0.50
73:o7:48:ASN:OD1	73:o7:54:LYS:NZ	2.45	0.50
78:q2:12:CYS:SG	78:q2:17:CYS:HB2	2.51	0.50
1:2:315:A:H4'	1:2:316:A:H4'	1.94	0.50
1:2:1281:G:O2'	1:2:1282:U:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1499:G:H2'	1:2:1500:C:C6	2.47	0.50
1:2:1722:A:H1'	8:S6:66:GLY:O	2.12	0.50
7:S5:124:LEU:O	7:S5:125:THR:OG1	2.29	0.50
11:S9:89:ASP:HB2	11:S9:90:LYS:HD3	1.92	0.50
14:C2:52:LEU:HD13	14:C2:85:LYS:HZ1	1.76	0.50
21:C9:85:SER:C	21:C9:87:GLY:N	2.69	0.50
24:D2:37:PHE:CE2	24:D2:103:ILE:HD12	2.46	0.50
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	1.93	0.50
33:E1:106:TYR:HE2	33:E1:116:LYS:HG2	1.77	0.50
36:1:689:U:O4	41:L4:209:TYR:HE1	1.94	0.50
36:1:926:A:H2'	36:1:927:C:C6	2.46	0.50
36:1:1080:A:P	42:L5:140:ARG:HB2	2.52	0.50
36:1:1155:C:O2'	36:1:1197:A:N1	2.40	0.50
36:1:1273:A:HO2'	36:1:1274:A:P	2.35	0.50
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.12	0.50
36:1:2767:U:H2'	36:1:2768:U:H6	1.75	0.50
36:1:2775:U:H2'	36:1:2776:C:C6	2.47	0.50
39:L2:96:LEU:HD22	79:Q3:83:ILE:HG23	1.94	0.50
40:L3:10:ARG:NH1	40:L3:12:GLY:O	2.43	0.50
40:L3:19:ARG:HB3	40:L3:232:ARG:HH12	1.76	0.50
40:L3:380:MET:HE3	40:L3:383:LEU:HD11	1.93	0.50
52:M6:32:LYS:HG2	52:M6:101:ARG:HB3	1.93	0.50
54:M8:152:HIS:CD2	54:M8:152:HIS:H	2.29	0.50
80:6:66:U:C5	8:s6:173:PRO:HG3	2.38	0.50
80:6:767:U:H5	11:s9:142:ASN:OD1	1.95	0.50
80:6:1642:G:N2	80:6:1781:A:N3	2.60	0.50
80:6:1657:U:H4'	80:6:1658:G:OP2	2.12	0.50
2:s0:62:ARG:HG3	2:s0:62:ARG:NH1	2.27	0.50
2:s0:190:ASP:C	2:s0:192:THR:H	2.20	0.50
15:c3:18:TYR:CZ	24:d2:56:HIS:CE1	3.00	0.50
18:c6:30:LYS:HE3	18:c6:35:PRO:HG3	1.93	0.50
20:c8:145:ARG:HE	82:sM:68:ARG:CZ	2.24	0.50
22:d0:61:LYS:HB2	22:d0:86:ILE:HB	1.94	0.50
36:5:750:G:C2	36:5:751:A:C8	3.00	0.50
36:5:817:A:C2	73:o7:11:ARG:HB3	2.47	0.50
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.24	0.50
36:5:1157:G:C2	36:5:1158:A:H1'	2.45	0.50
36:5:1519:G:H2'	36:5:1520:G:H8	1.75	0.50
36:5:1639:C:O2'	36:5:1640:G:H5'	2.12	0.50
36:5:1803:C:O3'	70:o4:70:LYS:NZ	2.41	0.50
36:5:2174:G:H8	36:5:2174:G:OP1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2924:U:H5''	36:5:2925:C:OP2	2.12	0.50
36:5:3046:A:H2'	36:5:3047:U:O4'	2.12	0.50
37:7:11:A:H4'	37:7:13:A:C8	2.47	0.50
38:8:38:U:C4	71:o5:89:ARG:HD2	2.47	0.50
39:l2:112:ILE:HD11	79:q3:79:VAL:CG1	2.42	0.50
40:l3:112:ASP:HA	40:l3:115:LYS:HB2	1.93	0.50
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	1.93	0.50
44:l7:84:VAL:HG11	44:l7:127:LEU:HD11	1.92	0.50
44:l7:132:PRO:HA	44:l7:229:PHE:CD1	2.46	0.50
44:l7:162:PRO:O	44:l7:164:SER:N	2.45	0.50
46:l9:49:ASN:O	46:l9:51:GLN:N	2.45	0.50
49:m3:47:ALA:CB	49:m3:48:PRO:HD2	2.39	0.50
59:n3:2:SER:HA	59:n3:56:ASP:OD1	2.11	0.50
1:2:180:A:H2'	1:2:181:A:O4'	2.11	0.50
1:2:206:A:OP1	6:S4:133:LYS:NZ	2.45	0.50
1:2:688:G:O6	87:2:2044:OHX:N1	2.45	0.50
1:2:918:U:H2'	1:2:919:A:H8	1.71	0.50
1:2:1098:U:C5	4:S2:224:PHE:HE2	2.29	0.50
1:2:1390:U:O2	1:2:1412:G:H1'	2.12	0.50
1:2:1735:U:O4	87:2:2023:OHX:N6	2.45	0.50
3:S1:81:PHE:CE1	3:S1:109:LYS:HE2	2.46	0.50
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	1.93	0.50
10:S8:138:ASN:HA	10:S8:141:ARG:HG3	1.94	0.50
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.77	0.50
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.47	0.50
26:D4:104:SER:HB3	26:D4:107:GLN:CG	2.41	0.50
34:SR:164:ASP:C	34:SR:166:SER:H	2.20	0.50
34:SR:227:ALA:HB1	34:SR:229:LYS:HD2	1.94	0.50
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.44	0.50
36:1:1517:G:C6	36:1:1518:U:C4	3.00	0.50
36:1:3166:C:H2'	36:1:3167:A:O4'	2.11	0.50
36:1:3306:U:H5''	40:L3:21:ARG:NH1	2.27	0.50
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.27	0.50
48:M1:15:GLU:N	48:M1:130:VAL:O	2.43	0.50
48:M1:106:ILE:O	48:M1:106:ILE:HG12	2.09	0.50
49:M3:42:ARG:O	49:M3:46:ILE:N	2.43	0.50
64:N8:47:LYS:C	64:N8:49:HIS:H	2.19	0.50
80:6:243:G:N2	80:6:251:A:C4	2.80	0.50
80:6:602:U:H2'	80:6:603:U:C6	2.46	0.50
80:6:648:G:C2	80:6:687:G:C2	2.99	0.50
80:6:924:A:H2'	80:6:925:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1349:G:C2	80:6:1350:U:C2	3.00	0.50
2:s0:185:ARG:HG2	23:d1:45:ALA:O	2.11	0.50
3:s1:144:ARG:HB3	3:s1:208:GLN:HG2	1.93	0.50
4:s2:83:ILE:HA	4:s2:99:LYS:O	2.11	0.50
4:s2:125:ILE:O	4:s2:129:ILE:HG13	2.12	0.50
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.92	0.50
10:s8:25:ARG:O	10:s8:28:GLU:HG2	2.12	0.50
10:s8:36:THR:HA	10:s8:58:LEU:HA	1.92	0.50
21:c9:105:LEU:HB3	21:c9:122:ARG:HE	1.76	0.50
34:sR:240:VAL:HA	34:sR:256:THR:HA	1.93	0.50
36:5:660:A:N1	36:5:941:G:O2'	2.44	0.50
36:5:916:G:H4'	36:5:917:A:O5'	2.11	0.50
36:5:1019:G:H22	36:5:1033:U:H3	1.59	0.50
36:5:1131:G:C4	36:5:2373:A:C2	3.00	0.50
36:5:1240:A:H2'	36:5:1241:U:H5'	1.92	0.50
36:5:1561:G:H1	36:5:1578:C:N4	2.09	0.50
36:5:2211:U:H5	36:5:2234:G:C6	2.29	0.50
36:5:2949:U:O2'	36:5:2950:G:H5'	2.11	0.50
36:5:3044:G:O2'	36:5:3045:G:H5'	2.12	0.50
87:8:203:OHX:N6	73:o7:87:SER:O	2.44	0.50
59:n3:71:LYS:C	59:n3:72:LYS:HG2	2.36	0.50
78:q2:59:HIS:O	78:q2:61:LYS:NZ	2.32	0.50
1:2:207:U:H2'	1:2:208:U:C6	2.47	0.50
1:2:372:G:H1'	1:2:612:U:O2	2.12	0.50
1:2:1172:G:C5	1:2:1173:C:C4	3.00	0.50
1:2:1649:G:H2'	1:2:1650:U:C6	2.47	0.50
1:2:1760:G:O2'	1:2:1781:A:N1	2.38	0.50
4:S2:74:PRO:C	4:S2:76:LEU:H	2.19	0.50
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.20	0.50
5:S3:106:LYS:O	5:S3:110:LEU:HB2	2.12	0.50
8:S6:8:PRO:HG3	8:S6:112:VAL:HG13	1.92	0.50
12:C0:24:LYS:HB2	12:C0:63:TYR:CZ	2.46	0.50
26:D4:94:TYR:HB2	26:D4:96:LEU:HG	1.93	0.50
34:SR:295:SER:OG	34:SR:297:ASP:OD1	2.25	0.50
35:SM:88:ARG:HG2	35:SM:91:THR:CG2	2.42	0.50
36:1:390:G:C2	36:1:391:A:H1'	2.47	0.50
36:1:1651:U:H2'	36:1:1652:G:H8	1.77	0.50
36:1:1713:G:O6	66:O0:28:LYS:HD3	2.12	0.50
36:1:2554:A:H5'	36:1:2554:A:C8	2.46	0.50
36:1:2899:C:C5	46:L9:171:ASP:HA	2.47	0.50
39:L2:42:ARG:HD2	39:L2:87:PHE:CD1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:129:ALA:HB3	39:L2:132:ASN:OD1	2.11	0.50
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.12	0.50
45:L8:161:GLU:OE2	51:M5:26:ARG:NH2	2.38	0.50
47:M0:92:HIS:HB2	47:M0:94:PHE:CE2	2.46	0.50
48:M1:32:ARG:HD3	48:M1:119:SER:O	2.11	0.50
50:M4:85:TRP:O	50:M4:90:VAL:HG23	2.11	0.50
55:M9:156:ASN:OD1	55:M9:156:ASN:N	2.45	0.50
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.47	0.50
63:N7:22:LYS:NZ	63:N7:129:TRP:O	2.40	0.50
73:O7:2:GLY:O	73:O7:7:SER:HB3	2.12	0.50
80:6:163:G:H8	80:6:163:G:O5'	1.94	0.50
80:6:407:A:C6	80:6:408:C:N4	2.80	0.50
80:6:1579:U:OP1	87:6:2053:OHX:N4	2.45	0.50
3:s1:30:PHE:CD1	3:s1:94:LYS:HA	2.46	0.50
3:s1:157:GLN:OE1	87:s1:301:OHX:N3	2.45	0.50
3:s1:178:GLY:O	3:s1:179:SER:HB2	2.10	0.50
4:s2:106:ASP:OD1	4:s2:108:ASN:N	2.29	0.50
4:s2:230:TRP:NE1	24:d2:68:ARG:HB2	2.27	0.50
6:s4:57:ASN:HB2	6:s4:60:GLU:H	1.75	0.50
6:s4:71:LYS:O	6:s4:90:ILE:HA	2.10	0.50
6:s4:252:ARG:HB3	6:s4:252:ARG:HH21	1.75	0.50
7:s5:119:ASP:HB3	27:d5:100:ILE:HD13	1.93	0.50
20:c8:140:THR:HA	20:c8:143:ARG:NH1	2.26	0.50
32:e0:48:THR:OG1	32:e0:49:LEU:N	2.44	0.50
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	1.92	0.50
36:5:398:A:C5	53:m7:3:ARG:NH2	2.80	0.50
36:5:662:U:OP1	64:n8:8:THR:HG21	2.10	0.50
36:5:743:C:O2	54:m8:141:ARG:HD3	2.11	0.50
36:5:1455:U:O2	67:o1:26:LYS:NZ	2.44	0.50
36:5:1481:A:H2'	36:5:1858:A:H1'	1.92	0.50
36:5:1765:U:OP2	55:m9:39:ASN:ND2	2.45	0.50
36:5:2239:G:N7	87:5:3712:OHX:N5	2.60	0.50
36:5:2660:G:H2'	36:5:2661:G:H8	1.76	0.50
36:5:2952:G:N3	86:B:3403:8AN:H2	2.27	0.50
36:5:3267:A:O2'	43:l6:73:GLY:O	2.26	0.50
39:l2:43:GLY:O	39:l2:87:PHE:HA	2.11	0.50
40:l3:116:ARG:HG2	40:l3:175:LYS:CB	2.38	0.50
40:l3:199:PHE:C	40:l3:201:LYS:H	2.19	0.50
40:l3:296:THR:HG21	40:l3:357:LYS:HA	1.93	0.50
44:l7:102:VAL:HG12	44:l7:130:ILE:HD12	1.94	0.50
50:m4:129:TYR:CE2	50:m4:133:LYS:HD3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:160:GLU:OE1	51:m5:160:GLU:N	2.35	0.50
62:n6:106:ILE:HG21	62:n6:109:LEU:CD2	2.42	0.50
71:o5:10:ARG:HG2	71:o5:57:VAL:HG21	1.94	0.50
71:o5:78:LYS:HA	71:o5:81:ARG:HB2	1.94	0.50
8:S6:219:ARG:O	8:S6:223:LYS:HB2	2.12	0.50
13:C1:109:VAL:HG21	13:C1:125:VAL:HG22	1.93	0.50
20:C8:35:ILE:O	20:C8:38:VAL:HG23	2.12	0.50
28:D6:11:ASN:O	28:D6:33:ASP:HB2	2.12	0.50
36:1:29:C:O2'	51:M5:162:ARG:O	2.28	0.50
36:1:873:C:H4'	36:1:874:U:OP2	2.12	0.50
36:1:1696:A:H2'	36:1:1697:A:C8	2.47	0.50
36:1:2207:A:H2'	36:1:2208:A:H5'	1.92	0.50
36:1:3143:C:O2	87:1:3749:OHX:N2	2.44	0.50
38:4:14:C:OP1	53:M7:123:PRO:HD3	2.12	0.50
47:M0:87:LEU:HD23	47:M0:138:VAL:HG13	1.93	0.50
57:N1:64:VAL:HA	57:N1:73:GLY:O	2.12	0.50
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.11	0.50
80:6:76:A:H2'	80:6:76:A:N3	2.27	0.50
80:6:291:G:H2'	80:6:292:U:C6	2.47	0.50
80:6:973:A:H5'	36:5:848:A:C2	2.47	0.50
80:6:1438:G:O2'	5:s3:179:GLN:NE2	2.45	0.50
80:6:1783:C:H2'	80:6:1784:C:C6	2.47	0.50
10:s8:79:ALA:HB3	10:s8:103:GLN:HB2	1.94	0.50
81:c0:52:LYS:HG3	81:c0:54:TYR:CD1	2.47	0.50
15:c3:70:LYS:O	15:c3:74:ILE:HG13	2.12	0.50
16:c4:16:VAL:HG11	16:c4:18:ARG:CZ	2.42	0.50
25:d3:43:PHE:CE1	25:d3:49:ALA:HB3	2.47	0.50
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.45	0.50
36:5:151:A:O2'	36:5:152:U:OP1	2.29	0.50
36:5:391:A:C5	36:5:392:G:C8	3.00	0.50
36:5:936:A:OP2	64:n8:27:LYS:HG2	2.12	0.50
36:5:1530:U:OP2	36:5:1531:C:N4	2.36	0.50
36:5:2093:A:N6	55:m9:114:LYS:HD3	2.27	0.50
36:5:2801:A:O2'	36:5:2802:A:H2'	2.11	0.50
36:5:3216:G:OP2	69:o3:2:ALA:HB2	2.12	0.50
37:7:77:G:H3'	56:n0:46:GLN:O	2.12	0.50
41:l4:26:PHE:HE2	41:l4:258:LEU:HD23	1.76	0.50
41:l4:327:LEU:HA	44:l7:166:ASN:ND2	2.26	0.50
43:l6:2:SER:HB2	68:o2:81:ASP:OD2	2.12	0.50
43:l6:97:ASN:HD21	43:l6:99:GLU:HB2	1.76	0.50
44:l7:166:ASN:OD1	44:l7:180:SER:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:86:HIS:ND1	47:m0:139:ARG:NH1	2.60	0.50
51:m5:35:VAL:HA	51:m5:65:ARG:HD3	1.94	0.50
54:m8:22:ASP:HA	54:m8:27:LYS:HE3	1.93	0.50
60:n4:5:ILE:O	60:n4:5:ILE:HG13	2.11	0.50
65:n9:20:GLY:O	65:n9:21:ILE:HB	2.12	0.50
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.93	0.50
79:q3:21:SER:HA	79:q3:24:ARG:HB2	1.94	0.50
1:2:330:G:H2'	1:2:331:A:C8	2.46	0.49
1:2:495:C:H3'	1:2:496:G:O4'	2.12	0.49
1:2:1558:U:OP2	1:2:1559:A:H1'	2.12	0.49
7:S5:53:VAL:O	7:S5:55:ASP:N	2.43	0.49
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.45	0.49
21:C9:118:PRO:O	21:C9:120:GLY:N	2.43	0.49
36:1:216:G:H4'	62:N6:19:TYR:CE2	2.47	0.49
36:1:250:U:H3'	36:1:251:G:C5'	2.42	0.49
36:1:1162:U:H4'	68:O2:57:TYR:CE1	2.47	0.49
36:1:1596:C:H2'	36:1:1597:C:C6	2.47	0.49
36:1:2403:G:C2'	87:1:3733:OHX:N2	2.75	0.49
36:1:2412:G:H2'	36:1:2413:A:C8	2.47	0.49
36:1:2556:C:H5'	63:N7:136:PHE:C	2.37	0.49
36:1:2698:G:O2'	57:N1:12:ARG:HG3	2.12	0.49
36:1:2730:G:OP2	87:1:3446:OHX:N5	2.45	0.49
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.45	0.49
36:1:3335:A:N7	36:1:3370:A:O2'	2.31	0.49
40:L3:122:TRP:CE2	40:L3:127:LYS:HE2	2.46	0.49
42:L5:104:LEU:HD21	42:L5:108:ARG:NH2	2.27	0.49
43:L6:175:LYS:HE2	50:M4:111:ALA:O	2.12	0.49
47:M0:153:ARG:O	47:M0:156:ARG:HB2	2.12	0.49
48:M1:116:TYR:HD2	48:M1:122:ILE:HD11	1.77	0.49
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.12	0.49
54:M8:165:ILE:HG12	54:M8:167:SER:O	2.11	0.49
60:N4:4:GLU:O	60:N4:13:ILE:N	2.35	0.49
63:N7:13:VAL:HG23	63:N7:21:LYS:O	2.12	0.49
68:O2:9:ILE:HG12	68:O2:63:THR:HB	1.92	0.49
70:O4:84:CYS:O	70:O4:88:ARG:HG2	2.11	0.49
80:6:919:A:H5'	16:c4:35:GLY:HA3	1.93	0.49
80:6:1208:A:H5''	80:6:1209:C:OP2	2.12	0.49
80:6:1275:A:H8	80:6:1275:A:OP2	1.94	0.49
80:6:1345:A:H2'	80:6:1348:A:H62	1.76	0.49
3:s1:77:GLU:OE1	16:c4:114:ARG:NH2	2.45	0.49
9:s7:91:ILE:HD12	9:s7:92:PHE:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:88:LEU:HG	15:c3:125:LEU:HD13	1.94	0.49
16:c4:48:VAL:HG22	16:c4:49:LYS:H	1.77	0.49
23:d1:56:SER:OG	23:d1:59:VAL:HG23	2.11	0.49
34:sR:184:ASN:ND2	34:sR:185:GLN:H	2.06	0.49
36:5:73:C:C2	49:m3:59:ARG:HD3	2.47	0.49
36:5:372:A:C6	36:5:373:A:C6	3.00	0.49
36:5:701:G:H2'	36:5:702:C:H6	1.72	0.49
36:5:3051:U:C2	36:5:3052:G:C8	2.99	0.49
36:5:3289:G:H2'	36:5:3290:G:C8	2.47	0.49
36:5:3314:A:OP1	40:l3:174:LYS:N	2.45	0.49
39:l2:112:ILE:HD11	79:q3:79:VAL:HG11	1.94	0.49
42:l5:257:GLU:C	42:l5:258:LYS:HD3	2.37	0.49
50:m4:97:SER:O	50:m4:101:LYS:HG3	2.12	0.49
55:m9:105:LEU:HD21	55:m9:139:VAL:HG13	1.94	0.49
62:n6:30:LEU:O	62:n6:32:SER:N	2.41	0.49
1:2:884:A:H61	1:2:927:C:H42	1.59	0.49
1:2:1299:G:H2'	1:2:1300:A:C8	2.46	0.49
1:2:1379:C:H5'	18:C6:10:PHE:CE2	2.46	0.49
1:2:1636:C:C2	1:2:1638:G:C5	3.01	0.49
1:2:1638:G:C2	1:2:1639:C:H1'	2.46	0.49
1:2:1657:U:N3	87:2:1969:OHX:N1	2.59	0.49
1:2:1727:G:H2'	1:2:1728:A:C8	2.47	0.49
2:S0:81:PHE:HB3	2:S0:170:ILE:HD13	1.94	0.49
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.12	0.49
8:S6:28:PHE:CE1	8:S6:104:PRO:HG3	2.46	0.49
18:C6:47:LYS:NZ	18:C6:50:GLU:OE2	2.45	0.49
21:C9:113:ILE:O	21:C9:124:ILE:HD12	2.12	0.49
34:SR:91:LEU:O	34:SR:100:TYR:N	2.28	0.49
34:SR:264:SER:O	34:SR:265:LEU:HD13	2.11	0.49
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.47	0.49
36:1:496:C:H2'	36:1:497:C:O4'	2.12	0.49
36:1:595:G:C8	36:1:609:G:C6	3.00	0.49
36:1:945:C:H2'	36:1:946:U:C6	2.47	0.49
36:1:1222:G:N2	36:1:1285:G:O2'	2.44	0.49
36:1:1317:A:C2	36:1:1319:G:C5	3.00	0.49
36:1:1478:C:H2'	36:1:1479:U:C6	2.47	0.49
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.46	0.49
41:L4:174:ALA:O	41:L4:177:ASP:N	2.45	0.49
44:L7:207:LEU:HB3	44:L7:243:MET:HB3	1.94	0.49
47:M0:51:HIS:ND1	47:M0:134:ILE:HD13	2.26	0.49
54:M8:156:GLY:HA2	64:N8:47:LYS:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.12	0.49
67:O1:15:ASN:HB3	67:O1:18:LYS:HE2	1.93	0.49
80:6:445:A:H2'	80:6:445:A:N3	2.27	0.49
80:6:678:A:N7	87:6:2034:OHX:N2	2.59	0.49
80:6:845:G:H2'	80:6:846:G:C8	2.46	0.49
11:s9:171:ARG:HA	11:s9:171:ARG:HE	1.77	0.49
11:s9:179:ARG:C	11:s9:181:ALA:H	2.20	0.49
15:c3:140:LYS:HE3	36:5:847:A:OP1	2.12	0.49
36:5:1080:A:P	42:l5:140:ARG:NH2	2.85	0.49
36:5:1602:A:C6	36:5:1603:A:C6	3.01	0.49
36:5:2133:U:O4	36:5:2147:A:H2	1.95	0.49
36:5:3113:A:H2'	36:5:3114:A:O4'	2.12	0.49
39:l2:137:ILE:HG23	39:l2:147:ARG:O	2.11	0.49
44:l7:80:GLN:CG	57:n1:136:ARG:HB2	2.42	0.49
45:l8:136:LEU:HD13	51:m5:3:ALA:CB	2.42	0.49
51:m5:138:GLN:HA	51:m5:143:ARG:HD2	1.94	0.49
59:n3:109:MET:SD	59:n3:114:ILE:HD11	2.51	0.49
67:o1:31:ARG:O	67:o1:35:GLU:HB2	2.13	0.49
76:q0:91:CYS:O	76:q0:126:LYS:HE3	2.12	0.49
1:2:144:U:C2	1:2:145:A:C8	3.00	0.49
1:2:1163:A:H2'	1:2:1164:G:O4'	2.11	0.49
1:2:1486:G:C8	1:2:1487:A:C8	3.00	0.49
1:2:1525:A:N1	1:2:1608:U:H1'	2.28	0.49
1:2:1578:U:O2'	1:2:1579:U:H5'	2.12	0.49
6:S4:100:ARG:HB2	6:S4:114:ILE:HD13	1.93	0.49
6:S4:191:ARG:NH2	6:S4:218:PHE:CD2	2.80	0.49
8:S6:30:LYS:NZ	8:S6:34:GLN:OE1	2.25	0.49
10:S8:138:ASN:OD1	10:S8:138:ASN:N	2.37	0.49
11:S9:77:ILE:CG2	11:S9:91:LYS:HG2	2.42	0.49
24:D2:89:TRP:O	24:D2:92:ASN:N	2.45	0.49
26:D4:14:SER:HB2	26:D4:21:LYS:HE3	1.94	0.49
36:1:18:G:O6	87:1:3539:OHX:N3	2.45	0.49
36:1:930:U:H2'	36:1:931:C:C6	2.48	0.49
36:1:938:C:OP2	64:N8:26:ARG:NH1	2.45	0.49
36:1:1131:G:C4	36:1:2373:A:C2	3.00	0.49
36:1:2196:C:N4	36:1:2242:A:C8	2.81	0.49
36:1:2703:A:H5''	36:1:2704:A:H5'	1.94	0.49
36:1:3057:U:O2	36:1:3086:A:N6	2.45	0.49
38:4:97:A:P	71:O5:67:ARG:HH22	2.34	0.49
40:L3:92:TYR:CE2	40:L3:101:SER:HB3	2.46	0.49
46:L9:73:SER:O	46:L9:76:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:106:LYS:H	46:L9:109:ALA:HB3	1.77	0.49
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.12	0.49
62:N6:3:LYS:HE2	62:N6:8:VAL:O	2.13	0.49
67:O1:98:VAL:HG21	67:O1:104:LEU:HD11	1.93	0.49
72:O6:34:SER:OG	72:O6:37:THR:HG23	2.12	0.49
72:O6:51:SER:O	72:O6:52:PRO:C	2.55	0.49
80:6:377:G:O6	87:6:1966:OHX:N4	2.45	0.49
80:6:558:U:O2	80:6:558:U:H2'	2.12	0.49
80:6:831:U:O2'	80:6:832:U:H5'	2.13	0.49
80:6:956:C:O5'	15:c3:12:SER:HB3	2.12	0.49
80:6:1338:C:H1'	80:6:1410:A:C4	2.48	0.49
80:6:1541:G:C6	80:6:1542:G:N1	2.80	0.49
2:s0:110:TYR:HE2	4:s2:64:LYS:HB3	1.76	0.49
3:s1:35:PRO:HG3	3:s1:98:THR:O	2.11	0.49
4:s2:121:VAL:HG12	4:s2:125:ILE:HD11	1.95	0.49
10:s8:147:ALA:C	10:s8:149:SER:H	2.20	0.49
32:e0:55:ARG:HB3	32:e0:55:ARG:NH1	2.27	0.49
34:sR:106:HIS:ND1	34:sR:128:ASP:OD2	2.44	0.49
36:5:138:U:H2'	36:5:139:G:C8	2.47	0.49
36:5:1643:A:H4'	36:5:1822:C:H5'	1.94	0.49
36:5:3127:A:H2'	36:5:3128:G:O4'	2.12	0.49
36:5:3272:C:H5'	43:l6:78:ARG:HB2	1.94	0.49
38:8:125:U:O2'	38:8:126:A:H5'	2.12	0.49
40:l3:183:LEU:HB3	40:l3:191:LYS:HG2	1.93	0.49
41:l4:281:ILE:HG13	54:m8:125:ASP:CG	2.37	0.49
43:l6:50:LYS:HE2	43:l6:72:ASN:HB2	1.94	0.49
45:l8:155:ASN:ND2	45:l8:181:LYS:HA	2.27	0.49
47:m0:91:VAL:HG13	47:m0:127:ALA:HB1	1.93	0.49
47:m0:142:ASP:OD1	47:m0:178:ARG:NH2	2.33	0.49
51:m5:174:ILE:HA	51:m5:184:LYS:HA	1.93	0.49
56:n0:25:PHE:CD1	57:n1:149:GLN:HB3	2.46	0.49
56:n0:74:ASN:OD1	56:n0:95:ARG:NH1	2.45	0.49
56:n0:83:SER:C	56:n0:85:SER:H	2.19	0.49
65:n9:14:ARG:CZ	65:n9:18:ARG:HD3	2.42	0.49
1:2:281:G:H2'	1:2:282:C:C6	2.47	0.49
1:2:982:U:OP1	87:2:2021:OHX:N1	2.45	0.49
1:2:987:G:C2	39:L2:249:SER:HB2	2.47	0.49
1:2:1410:A:H5''	18:C6:118:ILE:CD1	2.43	0.49
87:2:1915:OHX:N4	87:2:2076:OHX:N1	2.60	0.49
5:S3:69:LEU:O	5:S3:73:VAL:HG23	2.12	0.49
17:C5:77:ARG:HB3	17:C5:102:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.77	0.49
25:D3:13:ARG:HA	25:D3:16:ARG:HD3	1.93	0.49
27:D5:44:GLN:NE2	27:D5:48:ASP:OD2	2.46	0.49
28:D6:30:ILE:HD13	28:D6:74:CYS:HA	1.94	0.49
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.11	0.49
36:1:144:A:H2'	36:1:145:G:O4'	2.12	0.49
36:1:772:U:H2'	36:1:773:G:C8	2.48	0.49
36:1:966:U:C2	36:1:967:A:C8	3.00	0.49
36:1:1322:U:P	56:N0:117:ARG:HH21	2.35	0.49
36:1:1716:U:O2'	36:1:1717:U:H4'	2.12	0.49
37:3:76:A:C8	37:3:78:U:C2	3.00	0.49
38:4:136:G:OP1	61:N5:48:SER:OG	2.20	0.49
41:L4:3:ARG:O	41:L4:5:GLN:N	2.44	0.49
45:L8:222:PHE:O	45:L8:226:TYR:N	2.45	0.49
48:M1:13:LYS:O	48:M1:131:MET:HE3	2.12	0.49
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.95	0.49
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	1.94	0.49
56:N0:77:VAL:HG11	56:N0:106:LEU:CD1	2.43	0.49
63:N7:87:LEU:HD12	63:N7:88:ASP:H	1.78	0.49
71:O5:26:LYS:O	71:O5:30:GLU:HG3	2.12	0.49
80:6:198:A:C2'	80:6:199:G:H5'	2.42	0.49
80:6:407:A:H2'	80:6:408:C:C6	2.47	0.49
80:6:745:U:C2	80:6:807:A:C2	2.99	0.49
80:6:1018:U:H2'	80:6:1019:A:C8	2.48	0.49
80:6:1132:A:H2'	80:6:1133:A:C8	2.48	0.49
80:6:1455:G:OP1	17:c5:122:THR:HG21	2.11	0.49
2:s0:157:ASP:O	2:s0:158:VAL:C	2.55	0.49
5:s3:158:ILE:H	5:s3:158:ILE:HD13	1.77	0.49
9:s7:20:VAL:O	9:s7:24:PHE:N	2.46	0.49
81:c0:23:ALA:O	81:c0:24:LYS:HB3	2.11	0.49
19:c7:6:THR:OG1	19:c7:8:THR:HG23	2.13	0.49
20:c8:145:ARG:HE	82:sM:68:ARG:NH1	2.10	0.49
36:5:353:G:O2'	36:5:364:G:O6	2.21	0.49
36:5:498:A:H2'	36:5:499:G:H8	1.77	0.49
36:5:541:U:H2'	36:5:542:G:C8	2.47	0.49
36:5:678:G:C6	36:5:679:U:C4	3.01	0.49
36:5:1355:A:H4'	36:5:1356:U:O5'	2.12	0.49
36:5:2608:G:C2	36:5:2609:A:C8	3.01	0.49
36:5:2746:A:H2	42:l5:146:LEU:HB3	1.76	0.49
36:5:2945:G:H8	36:5:2950:G:O6	1.95	0.49
36:5:2953:U:C6	36:5:2953:U:H3'	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3094:A:H2'	36:5:3095:U:C6	2.48	0.49
36:5:3333:G:N2	36:5:3369:G:O2'	2.45	0.49
37:7:13:A:N3	42:15:24:ARG:NH2	2.49	0.49
45:18:41:GLN:HG3	45:18:44:ARG:NH2	2.27	0.49
45:18:238:LEU:HB3	45:18:242:ALA:HB3	1.93	0.49
46:19:163:GLN:O	46:19:166:ARG:HG3	2.12	0.49
47:m0:81:GLY:C	47:m0:83:ASP:N	2.69	0.49
57:n1:40:VAL:HA	57:n1:97:LYS:O	2.13	0.49
60:n4:9:SER:HB2	60:n4:51:TRP:CZ3	2.47	0.49
1:2:5:U:C2	1:2:20:G:N2	2.81	0.49
1:2:381:C:H1'	1:2:756:A:C2	2.47	0.49
1:2:700:C:N4	1:2:738:G:H1	2.07	0.49
1:2:1172:G:H21	21:C9:88:VAL:CG2	2.24	0.49
1:2:1429:G:C1'	22:D0:74:GLU:HG2	2.41	0.49
3:S1:91:VAL:HG23	3:S1:96:LEU:HB3	1.93	0.49
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.47	0.49
7:S5:94:THR:HG22	7:S5:114:ILE:HD12	1.95	0.49
15:C3:142:GLU:HG3	15:C3:145:THR:HG23	1.93	0.49
21:C9:37:VAL:HG22	21:C9:38:LYS:H	1.76	0.49
21:C9:58:ALA:HB1	21:C9:108:LEU:HD21	1.94	0.49
22:D0:58:LEU:CD1	22:D0:88:LYS:HD2	2.41	0.49
22:D0:83:GLU:HG3	31:D9:55:PHE:HD2	1.78	0.49
22:D0:95:ALA:HB1	22:D0:99:ILE:HG21	1.93	0.49
23:D1:74:GLN:HE22	23:D1:83:TRP:H	1.60	0.49
24:D2:24:GLN:HB3	24:D2:64:GLN:OE1	2.12	0.49
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.48	0.49
27:D5:46:LYS:HD3	27:D5:70:LYS:HD2	1.94	0.49
27:D5:59:TYR:HE2	27:D5:61:SER:CB	2.26	0.49
30:D8:27:GLN:NE2	30:D8:64:ARG:O	2.46	0.49
33:E1:141:CYS:SG	33:E1:144:CYS:HB2	2.52	0.49
34:SR:16:HIS:CE1	34:SR:43:ILE:HG12	2.47	0.49
34:SR:160:GLU:O	34:SR:162:ALA:N	2.42	0.49
34:SR:281:TYR:CD2	34:SR:285:ALA:O	2.65	0.49
35:SM:84:LYS:O	35:SM:85:SER:HB3	2.11	0.49
36:1:21:G:H3'	36:1:22:G:H8	1.78	0.49
36:1:250:U:C5	36:1:251:G:C8	3.00	0.49
36:1:500:C:O2'	36:1:501:A:H5'	2.12	0.49
36:1:664:U:H5'	41:L4:107:ARG:HA	1.94	0.49
36:1:816:A:H5''	36:1:920:A:H62	1.76	0.49
36:1:1245:A:H3'	36:1:1246:G:H5''	1.94	0.49
36:1:1587:A:OP1	87:1:3480:OHX:N6	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1721:U:O4	55:M9:128:LYS:NZ	2.34	0.49
36:1:2259:A:OP2	87:1:3470:OHX:N2	2.45	0.49
36:1:2544:U:H2'	36:1:2545:C:H6	1.77	0.49
36:1:2782:U:H2'	36:1:2783:U:C6	2.48	0.49
36:1:3126:C:H1'	46:L9:156:GLN:OE1	2.12	0.49
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.60	0.49
36:1:3279:A:C5	36:1:3280:U:C4	3.01	0.49
38:4:56:G:H2'	38:4:57:C:C6	2.47	0.49
38:4:103:G:OP2	38:4:105:A:O2'	2.27	0.49
40:L3:46:PHE:CD1	40:L3:208:VAL:HG21	2.48	0.49
41:L4:118:LYS:O	41:L4:122:THR:HG23	2.12	0.49
43:L6:96:VAL:HG22	43:L6:144:ALA:HB3	1.95	0.49
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.13	0.49
46:L9:73:SER:O	46:L9:75:VAL:N	2.46	0.49
46:L9:84:LYS:NZ	46:L9:191:LEU:HD13	2.27	0.49
47:M0:52:LEU:HB2	47:M0:136:PHE:HB2	1.94	0.49
49:M3:16:LYS:O	49:M3:18:TRP:N	2.44	0.49
53:M7:41:LEU:O	53:M7:41:LEU:HD22	2.13	0.49
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.46	0.49
62:N6:109:LEU:HD22	62:N6:115:ARG:CZ	2.43	0.49
63:N7:3:LYS:HE2	63:N7:30:ASP:OD1	2.13	0.49
80:6:678:A:H2'	80:6:679:U:O4'	2.12	0.49
80:6:961:U:H2'	80:6:962:C:H6	1.78	0.49
80:6:1081:A:H8	80:6:1081:A:OP2	1.95	0.49
80:6:1227:A:O2'	80:6:1228:G:OP2	2.28	0.49
80:6:1688:U:H3	80:6:1713:G:H1	1.60	0.49
20:c8:61:LEU:HD22	20:c8:65:GLU:OE1	2.12	0.49
20:c8:125:ILE:HD11	82:sM:57:ASN:HB3	1.94	0.49
27:d5:49:ARG:HD2	27:d5:53:GLU:OE1	2.12	0.49
36:5:324:A:H2'	36:5:325:A:C8	2.48	0.49
36:5:844:G:N7	87:5:3725:OHX:N3	2.60	0.49
36:5:1876:U:H5''	36:5:1876:U:H6	1.78	0.49
36:5:2409:G:C5	36:5:2411:U:C5	3.00	0.49
36:5:2585:G:O6	45:l8:47:SER:HB2	2.12	0.49
36:5:2731:U:H2'	36:5:2732:G:C8	2.47	0.49
37:7:11:A:N6	42:l5:16:PHE:O	2.45	0.49
37:7:27:A:H2'	37:7:28:C:C6	2.48	0.49
37:7:28:C:OP1	48:m1:137:ARG:HD3	2.12	0.49
40:l3:56:ILE:HD11	40:l3:359:ILE:HG12	1.94	0.49
40:l3:239:PRO:O	40:l3:242:THR:HG23	2.12	0.49
41:l4:141:ARG:NH1	41:l4:180:LYS:HD3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:33:ARG:HH22	42:l5:72:ASP:CG	2.18	0.49
42:l5:204:VAL:O	42:l5:208:MET:HG3	2.13	0.49
43:l6:28:GLN:HG2	43:l6:29:LYS:N	2.28	0.49
43:l6:145:LEU:O	43:l6:149:ILE:HG13	2.12	0.49
46:l9:140:VAL:HG22	46:l9:143:GLU:HB2	1.94	0.49
59:n3:17:LEU:HD11	59:n3:98:ASN:HB3	1.94	0.49
64:n8:70:LYS:N	64:n8:71:PRO:HD3	2.27	0.49
85:p1:38:UNK:O	85:p1:42:UNK:N	2.46	0.49
1:2:473:A:H5'	1:2:769:A:H1'	1.95	0.49
1:2:748:U:O2'	1:2:749:U:H5'	2.13	0.49
1:2:773:C:OP1	6:S4:21:ASP:HB2	2.13	0.49
1:2:1009:U:H2'	1:2:1010:C:H6	1.77	0.49
1:2:1125:A:C5	1:2:1126:G:H1'	2.47	0.49
1:2:1784:C:C2	1:2:1785:U:C5	3.01	0.49
3:S1:212:VAL:O	3:S1:214:LYS:N	2.45	0.49
12:C0:58:GLN:O	12:C0:64:TYR:HA	2.13	0.49
35:SM:89:ARG:C	35:SM:91:THR:H	2.21	0.49
36:1:77:A:H2'	36:1:78:U:O4'	2.12	0.49
36:1:654:C:OP1	68:O2:27:ARG:NH2	2.45	0.49
36:1:824:C:C5'	39:L2:21:ARG:HD3	2.39	0.49
36:1:911:C:N4	39:L2:3:ARG:HD3	2.28	0.49
36:1:1887:A:H5'	40:L3:226:PHE:O	2.12	0.49
36:1:2391:G:C6	36:1:2392:C:N3	2.80	0.49
36:1:2979:U:N3	87:1:3753:OHX:N2	2.51	0.49
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.47	0.49
36:1:3317:U:H6	87:1:3562:OHX:N3	2.10	0.49
37:3:7:G:O3'	42:L5:33:ARG:NH2	2.46	0.49
37:3:92:A:C5	37:3:93:C:H1'	2.46	0.49
42:L5:49:TYR:CE1	42:L5:66:SER:HB3	2.47	0.49
42:L5:113:LEU:HB3	42:L5:115:LEU:HD22	1.93	0.49
42:L5:206:GLN:O	42:L5:210:GLU:HG3	2.12	0.49
43:L6:130:ILE:HG21	43:L6:135:VAL:HG23	1.94	0.49
44:L7:158:LYS:HG2	44:L7:203:TRP:CZ3	2.47	0.49
44:L7:170:GLU:HG3	44:L7:179:LEU:HB3	1.94	0.49
44:L7:233:GLU:OE2	56:N0:35:VAL:HG13	2.12	0.49
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.94	0.49
52:M6:12:LYS:HD3	52:M6:37:ARG:NH2	2.27	0.49
59:N3:40:LYS:HD3	59:N3:59:MET:HE2	1.94	0.49
66:O0:57:GLU:OE1	66:O0:69:TYR:HE2	1.96	0.49
71:O5:41:LEU:HD12	71:O5:43:LYS:HB2	1.95	0.49
72:O6:66:GLU:HA	72:O6:69:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:461:G:H2'	80:6:462:G:H8	1.77	0.49
80:6:525:A:H2'	80:6:526:A:C8	2.47	0.49
80:6:710:U:O2	80:6:729:G:N1	2.45	0.49
80:6:815:G:H5'	80:6:815:G:H8	1.77	0.49
80:6:1373:C:H2'	80:6:1374:C:H6	1.77	0.49
80:6:1483:A:C4	80:6:1524:A:C6	3.01	0.49
80:6:1597:A:C8	31:d9:14:TYR:CD2	3.00	0.49
80:6:1795:U:O2'	80:6:1797:A:N7	2.40	0.49
4:s2:140:ARG:NH1	4:s2:229:LEU:HD11	2.27	0.49
5:s3:90:ARG:HH21	5:s3:91:VAL:CG2	2.26	0.49
10:s8:34:ALA:HB2	10:s8:56:ARG:CD	2.39	0.49
11:s9:119:ALA:HA	11:s9:124:HIS:HD1	1.78	0.49
17:c5:20:VAL:HB	17:c5:25:LEU:HD21	1.94	0.49
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.43	0.49
26:d4:12:VAL:HG22	26:d4:23:PHE:HB3	1.94	0.49
36:5:240:U:O2'	36:5:241:G:H8	1.96	0.49
36:5:811:U:H2'	36:5:812:G:C8	2.48	0.49
36:5:1080:A:OP2	42:l5:140:ARG:NH2	2.45	0.49
36:5:1239:C:H6	36:5:1239:C:H5''	1.77	0.49
36:5:1256:G:O6	36:5:1261:G:N2	2.46	0.49
39:l2:149:ARG:NH2	39:l2:155:LYS:HD2	2.28	0.49
47:m0:142:ASP:CG	47:m0:178:ARG:HH22	2.20	0.49
48:m1:100:GLY:HA2	48:m1:155:THR:O	2.11	0.49
54:m8:18:ALA:HB1	54:m8:19:PRO:HD2	1.93	0.49
55:m9:154:ALA:O	55:m9:158:GLU:HG2	2.13	0.49
56:n0:155:ARG:HD3	56:n0:172:TYR:CG	2.48	0.49
61:n5:105:VAL:HA	61:n5:130:TYR:CE2	2.47	0.49
63:n7:11:ALA:HB3	63:n7:80:LEU:HD22	1.93	0.49
66:o0:68:TYR:HD2	66:o0:68:TYR:C	2.20	0.49
78:q2:17:CYS:SG	78:q2:76:LYS:HB2	2.53	0.49
84:p0:4:ILE:H	84:p0:4:ILE:HD13	1.76	0.49
1:2:684:A:H2'	1:2:685:A:H5'	1.94	0.49
1:2:881:A:H2'	1:2:882:U:O4'	2.13	0.49
1:2:912:U:O5'	1:2:913:G:H2'	2.12	0.49
1:2:1165:G:C6	1:2:1166:A:N6	2.80	0.49
1:2:1253:U:O2'	33:E1:143:LYS:HA	2.13	0.49
1:2:1452:U:C2	1:2:1453:G:C8	3.01	0.49
1:2:1489:U:OP2	5:S3:9:ARG:NH2	2.46	0.49
1:2:1504:G:OP1	21:C9:97:SER:HB2	2.12	0.49
5:S3:85:VAL:O	5:S3:86:LEU:HD12	2.13	0.49
7:S5:64:VAL:O	7:S5:65:ARG:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:120:LYS:O	11:S9:121:SER:HB2	2.12	0.49
18:C6:95:LYS:HE2	18:C6:96:TYR:CZ	2.48	0.49
19:C7:84:TYR:O	19:C7:85:VAL:HG22	2.11	0.49
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.95	0.49
21:C9:28:LEU:HD22	21:C9:30:VAL:HG13	1.94	0.49
26:D4:15:ASN:OD1	26:D4:17:LEU:HD12	2.13	0.49
36:1:345:G:OP1	36:1:1429:G:N1	2.38	0.49
36:1:600:G:C2	36:1:604:G:C6	3.01	0.49
36:1:627:U:H2'	36:1:628:A:C8	2.48	0.49
36:1:1220:U:H4'	36:1:1221:A:H5''	1.94	0.49
36:1:1383:G:H2'	36:1:1384:U:O4'	2.12	0.49
36:1:3151:U:H4'	36:1:3294:A:C1'	2.43	0.49
36:1:3340:G:O6	87:1:3591:OHX:N4	2.46	0.49
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.27	0.49
45:L8:140:VAL:HG21	51:M5:3:ALA:HB2	1.93	0.49
48:M1:52:TYR:N	48:M1:52:TYR:CD1	2.81	0.49
51:M5:63:ARG:HA	51:M5:130:PHE:O	2.12	0.49
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.27	0.49
61:N5:69:SER:OG	61:N5:72:ALA:N	2.42	0.49
68:O2:71:HIS:CE1	68:O2:118:LYS:HD3	2.48	0.49
80:6:539:G:H8	80:6:539:G:OP2	1.95	0.49
80:6:594:A:H4'	80:6:595:G:H5'	1.94	0.49
80:6:773:C:OP1	6:s4:21:ASP:HB2	2.12	0.49
80:6:970:A:H2'	80:6:971:A:H5'	1.95	0.49
80:6:1643:U:C5	80:6:1644:C:C5	3.00	0.49
80:6:1657:U:O2	80:6:1657:U:H2'	2.13	0.49
80:6:1734:U:H2'	80:6:1735:U:O4'	2.12	0.49
4:s2:44:LEU:HD11	4:s2:247:ALA:HB2	1.93	0.49
4:s2:50:ILE:HD11	4:s2:239:PRO:HB2	1.93	0.49
7:s5:63:GLN:HG3	7:s5:86:GLN:C	2.38	0.49
7:s5:68:ILE:HD13	7:s5:69:PHE:H	1.78	0.49
10:s8:67:TRP:HA	10:s8:183:ILE:HG23	1.94	0.49
29:d7:67:THR:OG1	29:d7:70:LYS:O	2.30	0.49
36:5:956:U:H2'	36:5:957:C:H6	1.78	0.49
36:5:1012:G:H2'	36:5:1013:G:O4'	2.11	0.49
36:5:1058:U:O4	87:5:3701:OHX:N4	2.46	0.49
36:5:1193:A:N6	36:5:1194:G:C2	2.81	0.49
36:5:1229:G:O2'	84:p0:32:ASN:HA	2.12	0.49
36:5:3212:C:OP2	50:m4:124:ARG:NH2	2.45	0.49
41:l4:141:ARG:N	41:l4:177:ASP:OD1	2.33	0.49
41:l4:269:SER:C	41:l4:271:LYS:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.20	0.49
47:m0:210:ILE:HA	47:m0:217:PHE:HE2	1.72	0.49
59:n3:33:ASN:O	59:n3:34:LEU:HD23	2.12	0.49
61:n5:49:LYS:HA	71:o5:79:ASP:OD1	2.13	0.49
64:n8:2:PRO:HG2	64:n8:5:PHE:CD2	2.48	0.49
64:n8:147:LEU:HD12	72:o6:7:ILE:HD11	1.95	0.49
66:o0:68:TYR:C	66:o0:68:TYR:CD2	2.90	0.49
1:2:5:U:H2'	1:2:6:G:C8	2.45	0.49
1:2:367:A:C6	1:2:368:U:C4	3.00	0.49
1:2:800:U:N3	1:2:801:G:N7	2.61	0.49
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.12	0.49
1:2:1101:G:OP1	25:D3:7:ARG:NH2	2.45	0.49
1:2:1655:A:N1	36:1:2291:A:O2'	2.40	0.49
3:S1:104:ASP:HA	3:S1:214:LYS:HE2	1.94	0.49
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.95	0.49
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	1.95	0.49
10:S8:170:SER:OG	10:S8:181:GLY:HA2	2.13	0.49
19:C7:35:CYS:HA	19:C7:38:ILE:HG22	1.95	0.49
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.66	0.49
26:D4:20:ARG:NH1	26:D4:22:GLN:OE1	2.43	0.49
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.46	0.49
28:D6:23:CYS:HB2	28:D6:74:CYS:HB3	1.94	0.49
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.78	0.49
36:1:1567:U:H5	36:1:1568:U:C2	2.31	0.49
36:1:1921:A:N6	36:1:1929:G:N3	2.60	0.49
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.13	0.49
36:1:2667:A:H2'	36:1:2668:U:O4'	2.13	0.49
36:1:2688:U:H4'	36:1:2689:A:O4'	2.12	0.49
36:1:2831:G:H2'	36:1:2832:C:C6	2.47	0.49
38:4:63:G:O2'	71:O5:49:LYS:HE2	2.12	0.49
40:L3:10:ARG:NH1	40:L3:11:HIS:O	2.45	0.49
40:L3:72:VAL:HA	59:N3:88:ARG:O	2.13	0.49
40:L3:291:GLU:OE1	40:L3:292:ALA:N	2.42	0.49
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.76	0.49
46:L9:38:LEU:HD13	46:L9:71:VAL:HG13	1.94	0.49
47:M0:51:HIS:CE1	47:M0:134:ILE:HD13	2.47	0.49
48:M1:117:ASP:OD2	48:M1:119:SER:OG	2.26	0.49
61:N5:115:ARG:C	61:N5:117:ASN:H	2.20	0.49
80:6:244:A:OP1	6:s4:155:LYS:NZ	2.40	0.49
80:6:696:C:H4'	80:6:697:C:C6	2.46	0.49
80:6:830:U:H2'	80:6:831:U:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:994:G:C2'	80:6:995:A:H5'	2.43	0.49
80:6:1638:G:H2'	80:6:1639:C:O4'	2.12	0.49
2:s0:81:PHE:HB3	2:s0:170:ILE:HD12	1.94	0.49
4:s2:230:TRP:CE2	24:d2:68:ARG:HD3	2.47	0.49
5:s3:25:PHE:CD2	5:s3:37:VAL:HG11	2.48	0.49
13:c1:34:TRP:HH2	13:c1:36:LYS:HD3	1.78	0.49
25:d3:111:GLY:O	25:d3:121:ARG:HD2	2.13	0.49
27:d5:43:ASP:HB2	27:d5:46:LYS:HB2	1.94	0.49
27:d5:79:ALA:O	27:d5:83:LEU:HG	2.12	0.49
82:sM:64:LYS:C	82:sM:66:ALA:H	2.18	0.49
36:5:289:A:H2'	36:5:290:G:C8	2.38	0.49
36:5:436:A:C2	36:5:624:G:C2	3.01	0.49
36:5:498:A:H2'	36:5:499:G:C8	2.48	0.49
36:5:1306:G:C6	52:m6:62:THR:HA	2.48	0.49
36:5:2609:A:H2'	36:5:2610:G:C8	2.48	0.49
36:5:2619:G:O6	87:5:3632:OHX:N4	2.45	0.49
36:5:2945:G:N7	87:5:3656:OHX:N2	2.61	0.49
36:5:2988:C:O2'	40:l3:266:ARG:HD3	2.13	0.49
87:8:212:OHX:N6	73:o7:88:ALA:O	2.46	0.49
39:l2:113:VAL:O	39:l2:134:VAL:HG13	2.13	0.49
39:l2:205:ASN:HB2	39:l2:208:ASP:OD1	2.13	0.49
41:l4:125:ALA:O	41:l4:129:THR:HG23	2.13	0.49
41:l4:274:TYR:CG	41:l4:275:THR:N	2.81	0.49
46:l9:94:TYR:CD2	46:l9:98:PRO:HA	2.48	0.49
47:m0:46:PHE:CD2	47:m0:139:ARG:HG3	2.48	0.49
47:m0:100:ASN:ND2	47:m0:118:ALA:HB1	2.27	0.49
48:m1:139:THR:O	48:m1:140:ARG:HD2	2.12	0.49
51:m5:85:THR:C	51:m5:87:GLN:H	2.21	0.49
54:m8:67:ILE:HG23	54:m8:81:VAL:HG11	1.94	0.49
59:n3:39:VAL:HG22	59:n3:52:ALA:HB2	1.94	0.49
61:n5:91:ASN:ND2	61:n5:94:GLN:OE1	2.45	0.49
63:n7:25:ILE:HA	63:n7:43:VAL:HG12	1.95	0.49
68:o2:19:ARG:HD2	68:o2:29:ALA:O	2.13	0.49
70:o4:44:CYS:HA	70:o4:51:LEU:HD21	1.93	0.49
1:2:354:C:C2	1:2:355:G:C8	3.01	0.49
1:2:887:A:O2'	16:C4:122:PRO:HB3	2.12	0.49
1:2:1059:U:O2'	1:2:1060:U:N3	2.46	0.49
1:2:1480:G:C2	1:2:1528:U:C2	3.01	0.49
1:2:1564:U:H2'	1:2:1565:C:H6	1.76	0.49
1:2:1622:G:C6	1:2:1623:C:C4	3.01	0.49
1:2:1757:G:H4'	36:1:2256:A:N7	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.94	0.49
18:C6:41:PRO:O	18:C6:43:ILE:HG12	2.13	0.49
27:D5:70:LYS:HG3	27:D5:71:ILE:H	1.78	0.49
27:D5:93:SER:HB3	27:D5:100:ILE:HB	1.95	0.49
36:1:508:U:H2'	36:1:509:U:C6	2.47	0.49
36:1:914:A:C8	39:L2:199:THR:HG21	2.48	0.49
36:1:1898:G:O2'	59:N3:18:PRO:HG2	2.13	0.49
36:1:1908:A:H2'	36:1:1909:A:C8	2.47	0.49
36:1:1952:G:H8	36:1:1952:G:OP2	1.96	0.49
36:1:3266:G:H2'	36:1:3267:A:C8	2.48	0.49
37:3:53:U:H2'	37:3:54:U:C6	2.47	0.49
37:3:112:G:H2'	37:3:113:C:C6	2.48	0.49
38:4:45:C:H2'	38:4:46:G:O4'	2.12	0.49
39:L2:29:LEU:HB2	39:L2:123:ARG:HA	1.93	0.49
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	2.47	0.49
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.95	0.49
45:L8:118:GLU:C	45:L8:120:LYS:H	2.20	0.49
49:M3:48:PRO:HB2	71:O5:117:ALA:HB2	1.95	0.49
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.93	0.49
66:O0:99:ASP:O	66:O0:103:THR:HG23	2.13	0.49
67:O1:48:ASP:HB3	67:O1:90:PHE:CB	2.43	0.49
68:O2:109:LEU:O	68:O2:112:ALA:HB3	2.13	0.49
70:O4:58:ARG:O	70:O4:61:GLN:N	2.34	0.49
73:O7:18:LEU:HD21	75:O9:51:ILE:HG22	1.95	0.49
73:O7:55:ARG:HG2	73:O7:56:ARG:N	2.27	0.49
80:6:532:U:H4'	26:d4:66:GLY:HA2	1.94	0.49
80:6:839:U:OP1	13:c1:27:THR:HG22	2.13	0.49
80:6:845:G:O6	87:6:1920:OHX:N4	2.46	0.49
80:6:1797:A:C6	28:d6:87:ARG:HD2	2.48	0.49
5:s3:108:LYS:O	5:s3:113:LEU:HB2	2.13	0.49
13:c1:128:CYS:O	13:c1:129:ARG:O	2.31	0.49
18:c6:79:TYR:HA	18:c6:82:ARG:HG2	1.95	0.49
24:d2:86:ILE:HB	24:d2:117:ARG:HH22	1.76	0.49
28:d6:88:SER:OG	28:d6:91:ASP:OD2	2.27	0.49
36:5:263:C:H2'	36:5:264:G:O4'	2.13	0.49
36:5:291:C:OP1	51:m5:68:ARG:HG3	2.13	0.49
36:5:1716:U:H5'	36:5:1716:U:C6	2.47	0.49
36:5:2154:U:H5''	39:l2:242:ARG:O	2.12	0.49
37:7:71:G:O2'	37:7:72:A:H5'	2.12	0.49
40:l3:289:ASP:OD2	40:l3:290:ASP:N	2.46	0.49
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:191:LYS:HG3	41:l4:194:TYR:CZ	2.48	0.49
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.94	0.49
46:l9:188:THR:O	46:l9:189:GLU:HB2	2.13	0.49
47:m0:4:ARG:NH2	47:m0:99:ILE:HG22	2.27	0.49
47:m0:38:LYS:CG	47:m0:41:ALA:HB2	2.40	0.49
74:o8:30:LYS:HD2	74:o8:40:GLN:NE2	2.27	0.49
78:q2:8:ARG:HH21	78:q2:83:LEU:HD13	1.78	0.49
1:2:5:U:C2	1:2:20:G:C2	3.01	0.49
1:2:58:U:O2'	1:2:451:A:N3	2.45	0.49
1:2:445:A:H1'	1:2:525:A:OP1	2.12	0.49
1:2:567:A:H1'	32:E0:14:VAL:HG23	1.95	0.49
1:2:1234:A:H1'	33:E1:140:TYR:OH	2.12	0.49
1:2:1559:A:H4'	1:2:1559:A:OP1	2.11	0.49
1:2:1640:C:H1'	1:2:1763:A:N1	2.28	0.49
1:2:1744:A:C2'	1:2:1745:G:H5'	2.43	0.49
2:S0:187:ALA:O	2:S0:188:LEU:HD22	2.12	0.49
5:S3:132:LYS:HB3	5:S3:189:MET:HG3	1.95	0.49
5:S3:144:ALA:HB2	35:SM:106:VAL:HG22	1.94	0.49
27:D5:71:ILE:HB	27:D5:76:ALA:HB2	1.95	0.49
34:SR:245:PHE:O	34:SR:294:TRP:CD1	2.65	0.49
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.76	0.49
36:1:701:G:H2'	36:1:702:C:H6	1.77	0.49
36:1:1231:A:H2	36:1:1278:A:N7	2.11	0.49
36:1:1507:G:N7	53:M7:129:THR:HG22	2.28	0.49
36:1:1632:A:C2	36:1:1633:C:C2	3.01	0.49
36:1:2572:C:O2'	36:1:2573:G:C8	2.66	0.49
36:1:2653:C:H2'	36:1:2654:C:H6	1.77	0.49
36:1:3317:U:H4'	36:1:3318:G:O5'	2.13	0.49
39:L2:142:ASP:N	39:L2:142:ASP:OD2	2.43	0.49
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.28	0.49
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.31	0.49
45:L8:71:VAL:HG22	51:M5:21:PHE:CE1	2.47	0.49
50:M4:12:TRP:CZ2	56:N0:153:PRO:HB3	2.48	0.49
59:N3:75:PRO:HB2	59:N3:103:ALA:O	2.13	0.49
80:6:138:A:C2'	80:6:139:C:H5'	2.43	0.49
80:6:151:G:H2'	80:6:152:U:H6	1.78	0.49
80:6:852:C:P	55:m9:172:ARG:HH11	2.36	0.49
80:6:1315:U:O2	19:c7:4:VAL:HG11	2.12	0.49
80:6:1382:A:HO2'	80:6:1383:G:H5''	1.78	0.49
80:6:1391:A:H2'	80:6:1392:U:H6	1.76	0.49
80:6:1525:A:H2'	80:6:1526:A:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1544:U:OP1	20:c8:136:GLN:NE2	2.46	0.49
2:s0:121:VAL:HG12	2:s0:123:VAL:HG23	1.94	0.49
3:s1:226:GLY:HA2	36:5:2536:A:H4'	1.94	0.49
5:s3:107:PHE:O	5:s3:111:ASN:N	2.26	0.49
6:s4:238:LEU:HD12	6:s4:242:LYS:HD3	1.95	0.49
21:c9:7:ARG:NH2	21:c9:67:MET:HB3	2.28	0.49
34:sR:261:LYS:HG2	34:sR:273:ASP:CG	2.38	0.49
82:sM:57:ASN:O	82:sM:61:ILE:HG22	2.13	0.49
36:5:87:U:H2'	36:5:88:A:H8	1.78	0.49
36:5:186:U:H5''	36:5:187:A:OP2	2.13	0.49
36:5:600:G:H5'	36:5:601:U:OP2	2.12	0.49
36:5:629:U:H2'	36:5:630:A:C8	2.47	0.49
36:5:1313:G:H5'	52:m6:83:ALA:CB	2.43	0.49
36:5:2394:G:H5'	40:l3:252:ILE:HG22	1.94	0.49
36:5:2630:C:O2'	36:5:2631:U:H5'	2.12	0.49
36:5:2898:G:N7	76:q0:125:LYS:NZ	2.52	0.49
36:5:3045:G:H4'	40:l3:16:PHE:CE1	2.47	0.49
36:5:3047:U:C4	36:5:3048:A:N1	2.81	0.49
37:7:39:C:O2'	48:m1:44:THR:O	2.26	0.49
38:8:72:A:H4'	62:n6:75:ARG:HH21	1.75	0.49
44:l7:121:LYS:HB2	57:n1:133:ALA:HB3	1.95	0.49
49:m3:141:ALA:O	49:m3:145:PHE:HD2	1.96	0.49
59:n3:125:LEU:HD12	59:n3:125:LEU:HA	1.62	0.49
64:n8:128:ARG:CB	72:o6:8:ALA:HB2	2.43	0.49
86:B:3402:C:N3	86:B:3403:8AN:N6	2.61	0.49
1:2:959:U:C4	29:D7:32:PHE:HE2	2.31	0.48
1:2:1051:G:N7	87:2:2064:OHX:N1	2.61	0.48
1:2:1066:C:O2'	3:S1:148:ASN:OD1	2.20	0.48
1:2:1339:C:O2'	1:2:1341:A:C5	2.65	0.48
1:2:1595:U:N3	1:2:1600:A:C2	2.80	0.48
8:S6:2:LYS:O	8:S6:108:VAL:HA	2.12	0.48
8:S6:7:TYR:HB2	8:S6:124:LEU:HG	1.93	0.48
20:C8:31:ALA:O	20:C8:34:THR:HG23	2.13	0.48
36:1:47:C:OP2	36:1:48:A:O2'	2.30	0.48
36:1:282:G:H2'	36:1:286:U:H5'	1.93	0.48
36:1:345:G:O2'	38:4:25:G:N3	2.45	0.48
36:1:717:C:H3'	36:1:718:G:C8	2.48	0.48
36:1:937:G:C6	36:1:2410:U:H5''	2.47	0.48
36:1:1273:A:O2'	36:1:1274:A:OP1	2.28	0.48
36:1:1596:C:O2'	36:1:1696:A:N3	2.42	0.48
36:1:1680:G:H2'	36:1:1681:U:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2163:C:O2'	39:L2:11:GLY:HA3	2.13	0.48
36:1:2890:A:N1	36:1:2913:C:N3	2.61	0.48
36:1:3131:U:H2'	36:1:3132:C:C6	2.48	0.48
36:1:3343:G:H2'	36:1:3361:G:H21	1.76	0.48
87:1:3433:OHX:N6	87:1:3772:OHX:N6	2.61	0.48
39:L2:219:ILE:HG22	39:L2:221:LYS:O	2.13	0.48
41:L4:74:ILE:HG21	41:L4:94:CYS:SG	2.53	0.48
41:L4:150:LEU:HD21	41:L4:172:VAL:HG22	1.94	0.48
46:L9:84:LYS:HA	46:L9:188:THR:HG23	1.95	0.48
47:M0:144:ASN:ND2	47:M0:147:VAL:HG21	2.28	0.48
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.43	0.48
49:M3:91:ARG:HG2	49:M3:97:VAL:HG23	1.95	0.48
51:M5:140:LYS:HD3	51:M5:143:ARG:HD3	1.94	0.48
58:N2:49:ASN:C	58:N2:51:GLY:H	2.21	0.48
59:N3:104:ASN:OD1	59:N3:107:GLY:N	2.46	0.48
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	2.48	0.48
68:O2:21:HIS:ND1	68:O2:24:ARG:HD2	2.28	0.48
69:O3:59:VAL:C	69:O3:61:GLY:N	2.70	0.48
73:O7:87:SER:O	87:O7:102:OHX:N1	2.46	0.48
79:Q3:17:ARG:HB3	79:Q3:18:TYR:CD2	2.48	0.48
80:6:192:U:O2'	80:6:193:U:O5'	2.28	0.48
80:6:293:U:H2'	80:6:294:C:H6	1.77	0.48
80:6:548:G:H2'	80:6:549:G:O4'	2.13	0.48
80:6:726:C:C4	80:6:727:U:C4	3.01	0.48
80:6:913:G:H3'	80:6:914:G:H5'	1.95	0.48
80:6:952:A:H5''	15:c3:94:LYS:HE3	1.94	0.48
80:6:1268:G:H1'	80:6:1448:G:H5''	1.95	0.48
80:6:1305:U:H6	80:6:1305:U:H2'	1.39	0.48
80:6:1553:G:O6	17:c5:43:ARG:HD3	2.12	0.48
3:s1:110:LEU:O	3:s1:114:VAL:HG23	2.12	0.48
5:s3:32:GLU:HG2	5:s3:58:VAL:HG23	1.95	0.48
10:s8:184:LEU:HB3	10:s8:189:LEU:HD13	1.95	0.48
14:c2:61:VAL:HG13	14:c2:121:VAL:HG23	1.95	0.48
23:d1:32:VAL:HB	23:d1:60:ARG:HD2	1.94	0.48
24:d2:18:GLU:HG2	24:d2:65:LEU:HG	1.94	0.48
28:d6:41:ILE:HG23	28:d6:68:TYR:CD1	2.49	0.48
34:sR:248:ASN:HD21	34:sR:298:GLY:HA3	1.78	0.48
36:5:274:G:H1	36:5:291:C:H42	1.60	0.48
36:5:2147:A:H2'	36:5:2148:U:O4'	2.13	0.48
36:5:2206:G:O2'	36:5:2207:A:H5'	2.12	0.48
36:5:2409:G:C6	36:5:2411:U:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2546:C:H2'	36:5:2547:A:H8	1.78	0.48
36:5:3255:U:O5'	36:5:3255:U:H6	1.96	0.48
41:l4:84:ARG:HA	41:l4:87:GLN:OE1	2.13	0.48
49:m3:64:LYS:HG3	64:n8:69:TRP:CD1	2.48	0.48
50:m4:20:VAL:HG13	50:m4:68:LEU:O	2.12	0.48
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	1.95	0.48
59:n3:67:PRO:O	59:n3:69:LEU:N	2.46	0.48
63:n7:101:PHE:HA	63:n7:107:ARG:HE	1.77	0.48
67:o1:46:THR:HG23	67:o1:47:ASP:N	2.28	0.48
74:o8:11:PHE:O	74:o8:15:THR:HG23	2.13	0.48
74:o8:12:LEU:HD13	74:o8:12:LEU:HA	1.69	0.48
1:2:76:A:H5''	87:2:2043:OHX:N1	2.28	0.48
1:2:817:A:O4'	9:S7:110:GLN:NE2	2.46	0.48
1:2:1207:C:N4	1:2:1456:C:H5	2.10	0.48
1:2:1451:C:H2'	1:2:1452:U:C6	2.48	0.48
1:2:1783:C:H2'	1:2:1784:C:H6	1.78	0.48
3:S1:104:ASP:OD1	3:S1:214:LYS:HD3	2.13	0.48
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.95	0.48
11:S9:53:ARG:O	11:S9:57:ARG:HG3	2.12	0.48
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.79	0.48
34:SR:83:ALA:HB2	34:SR:89:LEU:HD23	1.94	0.48
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.13	0.48
36:1:59:G:H2'	38:4:33:A:O2'	2.13	0.48
36:1:573:C:H2'	36:1:574:U:C6	2.48	0.48
36:1:764:U:H4'	36:1:765:C:OP2	2.12	0.48
36:1:1072:G:O2'	36:1:1073:U:H5'	2.13	0.48
36:1:1073:U:O2'	65:N9:49:GLY:HA3	2.13	0.48
36:1:1894:U:O2'	36:1:3054:U:OP1	2.27	0.48
36:1:2202:C:O2'	39:L2:240:ALA:O	2.19	0.48
36:1:2505:U:H2'	36:1:2506:U:C6	2.48	0.48
36:1:3348:G:H1	36:1:3357:U:H3	1.61	0.48
41:L4:22:LEU:HD23	41:L4:23:PRO:HD2	1.95	0.48
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.48	0.48
44:L7:169:ILE:CD1	44:L7:181:ILE:HA	2.43	0.48
46:L9:86:TYR:CD2	46:L9:151:VAL:HG22	2.48	0.48
55:M9:99:LEU:O	55:M9:103:ARG:HB2	2.12	0.48
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.12	0.48
56:N0:52:LYS:HG3	56:N0:54:ALA:HB3	1.95	0.48
60:N4:21:PHE:CZ	60:N4:23:ARG:HG3	2.49	0.48
67:O1:55:LEU:HD23	67:O1:95:PRO:HB3	1.94	0.48
68:O2:123:LYS:O	68:O2:126:LEU:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:31:LEU:HB3	71:O5:44:ILE:HD12	1.95	0.48
73:O7:38:GLY:O	73:O7:41:ALA:N	2.39	0.48
75:O9:5:LYS:HE3	75:O9:13:MET:HE1	1.95	0.48
80:6:93:A:H4'	80:6:94:U:OP2	2.13	0.48
80:6:694:U:H3'	80:6:695:U:O2	2.13	0.48
80:6:836:U:C2	80:6:837:G:C8	3.01	0.48
80:6:1237:G:H2'	80:6:1238:A:H8	1.76	0.48
80:6:1537:C:O2'	80:6:1540:G:O6	2.31	0.48
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.53	0.48
4:s2:144:TRP:CE2	4:s2:173:PRO:HG3	2.47	0.48
6:s4:100:ARG:NH2	6:s4:121:TYR:O	2.45	0.48
6:s4:235:TYR:N	6:s4:235:TYR:CD2	2.81	0.48
7:s5:37:GLN:OE1	18:c6:53:LEU:HD22	2.13	0.48
17:c5:129:GLY:O	17:c5:130:ARG:HB2	2.13	0.48
27:d5:54:VAL:HA	27:d5:57:TYR:CE1	2.49	0.48
28:d6:41:ILE:HD12	28:d6:68:TYR:CD1	2.47	0.48
36:5:248:U:H2'	36:5:249:U:H5'	1.95	0.48
36:5:634:C:H5'	69:o3:21:ARG:O	2.13	0.48
36:5:1785:U:H2'	36:5:1786:G:H8	1.76	0.48
36:5:2183:A:C6	36:5:2184:U:C4	3.01	0.48
36:5:2659:G:H4'	36:5:2751:G:O2'	2.12	0.48
37:7:22:A:C6	37:7:23:A:C6	3.01	0.48
38:8:2:A:H3'	38:8:3:A:H8	1.78	0.48
42:l5:51:LEU:HB2	42:l5:144:VAL:CG1	2.43	0.48
48:m1:80:LEU:HD12	48:m1:167:TYR:OH	2.13	0.48
53:m7:67:ILE:HG23	53:m7:82:ARG:NE	2.28	0.48
55:m9:26:PRO:O	55:m9:29:THR:HG22	2.14	0.48
56:n0:8:GLN:NE2	56:n0:10:ILE:HD11	2.29	0.48
1:2:47:A:N1	1:2:386:G:H1'	2.28	0.48
1:2:153:G:H2'	1:2:154:G:C8	2.48	0.48
1:2:265:A:C2	1:2:267:U:C4	3.01	0.48
1:2:287:G:O2'	1:2:288:A:OP2	2.29	0.48
1:2:558:U:OP1	32:E0:58:PRO:HA	2.13	0.48
1:2:1101:G:N3	24:D2:4:SER:OG	2.46	0.48
1:2:1165:G:C6	1:2:1166:A:C6	3.01	0.48
1:2:1562:G:C6	1:2:1563:C:C4	3.01	0.48
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.95	0.48
5:S3:209:ILE:O	19:C7:20:TYR:OH	2.31	0.48
7:S5:73:THR:HG23	18:C6:114:ARG:CD	2.39	0.48
9:S7:124:LYS:O	9:S7:128:ASP:N	2.46	0.48
13:C1:64:VAL:HG12	13:C1:129:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:14:LYS:O	30:D8:28:VAL:HG22	2.13	0.48
34:SR:61:PHE:HD1	34:SR:92:TRP:CE3	2.30	0.48
36:1:22:G:H1'	38:4:104:A:N3	2.28	0.48
36:1:587:U:C2'	36:1:588:G:H5'	2.43	0.48
36:1:606:C:O2'	36:1:607:A:N3	2.46	0.48
36:1:621:A:C8	36:1:623:U:O4	2.64	0.48
36:1:1103:A:OP2	36:1:1103:A:H4'	2.12	0.48
36:1:1237:G:H2'	36:1:1237:G:N3	2.28	0.48
36:1:1306:G:C6	52:M6:62:THR:HA	2.48	0.48
36:1:1814:A:H4'	36:1:1815:U:H5'	1.95	0.48
39:L2:80:GLU:HG3	79:Q3:66:GLY:HA2	1.95	0.48
42:L5:3:PHE:HB2	42:L5:6:ASP:HB2	1.93	0.48
46:L9:79:ILE:O	46:L9:82:VAL:HG12	2.12	0.48
46:L9:94:TYR:HD1	46:L9:99:ILE:HD12	1.78	0.48
47:M0:115:MET:O	47:M0:115:MET:HG3	2.13	0.48
49:M3:126:PHE:HZ	49:M3:135:ALA:HB3	1.78	0.48
51:M5:9:GLU:HG2	72:O6:44:VAL:HG21	1.95	0.48
52:M6:78:ARG:NH1	52:M6:78:ARG:HG3	2.27	0.48
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.77	0.48
68:O2:64:LYS:O	68:O2:65:PHE:HB2	2.14	0.48
79:Q3:45:LYS:O	79:Q3:45:LYS:HG3	2.13	0.48
80:6:219:A:C6	80:6:843:U:H1'	2.48	0.48
80:6:477:A:N7	80:6:538:A:N1	2.61	0.48
80:6:814:A:C8	80:6:816:G:C8	3.02	0.48
80:6:888:U:H1'	16:c4:126:THR:HG21	1.94	0.48
80:6:1136:U:O2'	80:6:1137:A:H5'	2.13	0.48
80:6:1366:U:O2'	21:c9:7:ARG:HD2	2.13	0.48
80:6:1513:G:H1'	80:6:1518:C:C2	2.48	0.48
2:s0:144:ILE:HG23	2:s0:158:VAL:HG13	1.95	0.48
6:s4:11:ARG:O	6:s4:12:LEU:HB2	2.14	0.48
6:s4:159:THR:HG23	6:s4:173:ILE:HD13	1.95	0.48
7:s5:56:ALA:O	7:s5:58:LEU:N	2.44	0.48
7:s5:109:LYS:O	7:s5:113:ILE:HG13	2.13	0.48
36:5:562:C:H2'	36:5:563:U:C6	2.46	0.48
36:5:1000:C:OP1	87:5:3527:OHX:N4	2.45	0.48
36:5:1376:C:H1'	36:5:1407:A:C4	2.48	0.48
36:5:1919:G:H1'	36:5:1934:G:N2	2.28	0.48
36:5:2793:G:H5''	78:q2:66:LYS:HG2	1.95	0.48
41:l4:76:ARG:HB3	41:l4:86:GLY:O	2.13	0.48
50:m4:113:THR:HG22	50:m4:115:PHE:N	2.27	0.48
51:m5:115:VAL:HG22	51:m5:134:LEU:CD2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:108:ASP:N	53:m7:152:GLU:OE2	2.43	0.48
53:m7:132:ALA:O	53:m7:133:HIS:HB2	2.13	0.48
57:n1:91:LEU:HD12	57:n1:96:ILE:HD11	1.94	0.48
59:n3:19:VAL:HG23	59:n3:50:PRO:O	2.13	0.48
66:o0:84:LEU:H	66:o0:84:LEU:CD1	2.23	0.48
73:o7:64:MET:O	73:o7:65:ARG:C	2.56	0.48
78:q2:9:LYS:HG3	78:q2:22:GLN:OE1	2.14	0.48
1:2:762:A:OP1	11:S9:79:ARG:NH2	2.42	0.48
1:2:952:A:OP1	15:C3:94:LYS:HE2	2.14	0.48
1:2:1111:G:C6	1:2:1112:G:C4	3.02	0.48
1:2:1494:C:H2'	1:2:1495:C:H6	1.77	0.48
3:S1:142:PHE:O	3:S1:207:LEU:HA	2.13	0.48
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.94	0.48
8:S6:122:GLU:O	8:S6:126:ASP:HB3	2.13	0.48
12:C0:46:LEU:HG	12:C0:66:TYR:CD2	2.48	0.48
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.48	0.48
35:SM:46:LYS:HZ3	35:SM:46:LYS:HB2	1.78	0.48
36:1:317:A:C2	36:1:318:A:C4	3.02	0.48
36:1:370:U:C4	36:1:371:G:C6	3.02	0.48
36:1:612:U:H2'	36:1:613:G:C8	2.48	0.48
36:1:730:C:H2'	36:1:731:U:H6	1.77	0.48
36:1:801:A:O2'	87:1:3518:OHX:N2	2.46	0.48
36:1:1767:C:H2'	36:1:1768:U:H6	1.79	0.48
36:1:2178:A:H3'	39:L2:132:ASN:HD21	1.78	0.48
36:1:3316:A:C2	36:1:3389:U:H5'	2.49	0.48
37:3:37:G:C6	37:3:41:G:C2	3.01	0.48
37:3:42:A:C5	37:3:43:U:C5	3.00	0.48
39:L2:201:GLY:O	39:L2:204:MET:HG3	2.13	0.48
40:L3:4:ARG:CD	40:L3:7:GLU:HA	2.44	0.48
45:L8:245:LYS:NZ	45:L8:249:ARG:NH2	2.60	0.48
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.49	0.48
53:M7:50:GLN:OE1	53:M7:56:ARG:NH2	2.40	0.48
59:N3:120:LYS:H	59:N3:137:VAL:HG23	1.79	0.48
62:N6:42:GLN:O	62:N6:125:LYS:HE3	2.13	0.48
68:O2:22:SER:CB	68:O2:30:GLU:HA	2.43	0.48
70:O4:47:CYS:HB3	70:O4:84:CYS:SG	2.53	0.48
71:O5:101:THR:HG23	71:O5:104:GLN:HB2	1.93	0.48
80:6:152:U:O2'	8:s6:15:THR:HG23	2.13	0.48
80:6:234:G:H2'	80:6:235:G:O4'	2.13	0.48
80:6:560:U:H2'	80:6:561:G:H8	1.78	0.48
80:6:639:U:H1'	80:6:640:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:648:G:C4	80:6:687:G:N2	2.81	0.48
80:6:1330:G:N2	5:s3:204:ASP:OD1	2.41	0.48
80:6:1589:C:OP1	87:6:2035:OHX:N2	2.47	0.48
80:6:1594:G:C6	80:6:1595:U:N3	2.82	0.48
2:s0:198:MET:SD	2:s0:199:PRO:HD2	2.53	0.48
5:s3:195:SER:O	5:s3:196:ARG:HB3	2.12	0.48
7:s5:59:VAL:O	7:s5:60:ASP:HB2	2.12	0.48
10:s8:82:VAL:HG13	10:s8:196:LEU:HD21	1.95	0.48
18:c6:64:ASP:O	18:c6:65:ILE:HD13	2.14	0.48
34:sR:183:LEU:HD12	34:sR:186:PHE:CD1	2.49	0.48
36:5:283:G:N9	64:n8:61:PHE:HE1	2.11	0.48
36:5:1157:G:H2'	36:5:1158:A:O4'	2.13	0.48
36:5:1193:A:C6	36:5:1194:G:C2	3.02	0.48
36:5:1469:C:H4'	36:5:1470:U:OP2	2.13	0.48
36:5:1508:C:O2'	36:5:2353:G:O2'	2.14	0.48
36:5:2957:G:H8	36:5:2957:G:H5'	1.77	0.48
36:5:3022:G:O2'	36:5:3023:U:OP2	2.31	0.48
36:5:3238:G:C2	36:5:3250:U:O2	2.66	0.48
38:8:104:A:C8	38:8:105:A:C8	3.02	0.48
39:l2:14:SER:C	39:l2:16:PHE:H	2.21	0.48
39:l2:72:ARG:HG3	39:l2:72:ARG:NH1	2.28	0.48
40:l3:37:ARG:CA	40:l3:186:GLY:HA2	2.42	0.48
41:l4:192:GLY:O	41:l4:195:ARG:N	2.32	0.48
49:m3:153:ASP:OD2	49:m3:154:VAL:N	2.38	0.48
52:m6:121:PRO:HA	52:m6:124:LEU:CD2	2.36	0.48
67:o1:94:GLU:HB2	67:o1:95:PRO:HD2	1.95	0.48
78:q2:105:GLN:HB2	78:q2:106:PHE:CD1	2.48	0.48
1:2:505:A:H2'	1:2:505:A:N3	2.29	0.48
1:2:629:U:C2	1:2:630:A:C8	3.01	0.48
1:2:651:G:C2	1:2:684:A:C6	3.02	0.48
1:2:1570:A:H2'	1:2:1571:C:O4'	2.14	0.48
3:S1:33:LYS:HZ3	3:S1:95:ASN:HD21	1.61	0.48
13:C1:109:VAL:HA	13:C1:135:VAL:HG13	1.95	0.48
36:1:590:G:C2	36:1:610:G:H2'	2.49	0.48
36:1:750:G:H2'	36:1:751:A:H8	1.78	0.48
36:1:1307:G:H1'	36:1:1308:A:N7	2.29	0.48
36:1:1595:U:H1'	36:1:1596:C:C6	2.49	0.48
36:1:2419:A:H1'	36:1:2804:A:O4'	2.14	0.48
36:1:3152:U:O2'	36:1:3153:U:H5'	2.13	0.48
42:L5:261:THR:N	42:L5:264:GLN:HG3	2.24	0.48
50:M4:21:VAL:HG23	50:M4:65:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:23:ILE:CA	50:M4:63:VAL:HG23	2.37	0.48
61:N5:129:ASP:HB2	61:N5:130:TYR:CD1	2.49	0.48
67:O1:44:MET:HG3	67:O1:77:ARG:HB2	1.95	0.48
80:6:453:U:O4	87:6:1916:OHX:N4	2.46	0.48
80:6:713:A:H2'	80:6:714:G:H5''	1.96	0.48
80:6:1589:C:H2'	80:6:1590:G:C8	2.48	0.48
80:6:1696:G:N2	80:6:1704:U:H3	2.10	0.48
2:s0:59:LEU:HD12	23:d1:79:LEU:HD21	1.96	0.48
2:s0:148:ASP:OD1	2:s0:149:LEU:N	2.42	0.48
5:s3:8:LYS:HG2	22:d0:63:LEU:HD21	1.95	0.48
5:s3:11:LEU:HD13	22:d0:29:THR:HG23	1.95	0.48
5:s3:217:ILE:C	5:s3:219:ALA:H	2.22	0.48
16:c4:122:PRO:C	16:c4:124:ASP:H	2.22	0.48
26:d4:103:ALA:O	26:d4:108:ARG:HG3	2.14	0.48
29:d7:19:HIS:HB3	29:d7:22:LYS:HD2	1.96	0.48
31:d9:21:CYS:HB2	31:d9:39:CYS:HB3	1.95	0.48
36:5:394:G:N1	36:5:397:A:OP2	2.46	0.48
36:5:532:A:H2	36:5:560:G:H22	1.61	0.48
36:5:1341:U:O2	54:m8:10:HIS:HD2	1.96	0.48
36:5:1687:U:H1'	58:n2:75:TYR:CD2	2.49	0.48
36:5:1716:U:P	36:5:1716:U:H3'	2.53	0.48
36:5:2380:U:H2'	36:5:2381:G:O4'	2.12	0.48
36:5:3243:A:C5	52:m6:156:LEU:HB3	2.48	0.48
38:8:66:A:H2'	38:8:67:U:H6	1.78	0.48
39:l2:70:ARG:HG3	39:l2:71:LEU:N	2.28	0.48
40:l3:67:PHE:CD1	40:l3:72:VAL:HG12	2.49	0.48
40:l3:67:PHE:HD1	40:l3:72:VAL:HG12	1.78	0.48
40:l3:105:VAL:HG21	40:l3:148:LEU:HD13	1.95	0.48
40:l3:311:PHE:CE2	40:l3:317:ILE:HG13	2.49	0.48
41:l4:187:LEU:HD21	41:l4:198:ARG:HH21	1.78	0.48
47:m0:30:LYS:H	47:m0:62:SER:CB	2.24	0.48
49:m3:123:ILE:HB	71:o5:117:ALA:O	2.14	0.48
56:n0:8:GLN:HB2	56:n0:64:ILE:HD11	1.96	0.48
56:n0:25:PHE:HA	57:n1:149:GLN:O	2.14	0.48
66:o0:99:ASP:O	66:o0:101:LEU:N	2.47	0.48
72:o6:45:ARG:NH2	72:o6:49:GLY:O	2.38	0.48
1:2:106:U:H2'	1:2:107:C:O4'	2.13	0.48
1:2:292:U:H2'	1:2:293:U:C6	2.48	0.48
1:2:448:C:H2'	1:2:449:C:H6	1.79	0.48
3:S1:61:LEU:O	3:S1:63:GLY:N	2.46	0.48
3:S1:110:LEU:H	3:S1:110:LEU:HD12	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:176:VAL:HA	3:S1:184:LEU:HD23	1.95	0.48
7:S5:132:VAL:HG13	7:S5:202:ALA:HB2	1.96	0.48
18:C6:113:ASP:CG	18:C6:114:ARG:N	2.72	0.48
20:C8:29:VAL:O	20:C8:43:SER:OG	2.21	0.48
21:C9:69:LYS:HB3	21:C9:70:GLN:NE2	2.28	0.48
29:D7:62:ILE:HG13	29:D7:63:LEU:N	2.28	0.48
36:1:381:U:O4	87:1:3602:OHX:N4	2.46	0.48
36:1:595:G:H1	36:1:609:G:H5''	1.77	0.48
36:1:1029:G:H2'	36:1:1030:A:C8	2.48	0.48
36:1:1366:A:C2	36:1:1367:G:C4	3.00	0.48
36:1:1517:G:O2'	36:1:1518:U:H5'	2.13	0.48
36:1:2167:A:C6	36:1:2168:A:N1	2.81	0.48
38:4:24:G:N2	38:4:25:G:H1'	2.27	0.48
38:4:70:G:O6	87:O7:102:OHX:N4	2.46	0.48
38:4:133:G:H4'	61:N5:55:ASN:HD21	1.77	0.48
45:L8:121:SER:O	45:L8:123:GLN:N	2.45	0.48
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.28	0.48
61:N5:67:ILE:HD12	61:N5:83:VAL:HG12	1.94	0.48
70:O4:82:ALA:O	70:O4:86:LYS:N	2.34	0.48
71:O5:92:LEU:HB3	71:O5:96:GLU:O	2.14	0.48
80:6:820:U:O2'	80:6:821:U:H5''	2.13	0.48
80:6:1013:A:H2'	80:6:1014:G:O4'	2.12	0.48
2:s0:157:ASP:OD2	23:d1:34:ILE:HD11	2.14	0.48
3:s1:59:ASP:O	87:s1:302:OHX:N6	2.46	0.48
6:s4:87:MET:HE3	6:s4:226:PHE:CE1	2.48	0.48
6:s4:142:HIS:CD2	6:s4:142:HIS:C	2.92	0.48
17:c5:68:PRO:HG2	17:c5:71:GLU:OE2	2.14	0.48
22:d0:27:THR:O	22:d0:113:ASP:HB3	2.12	0.48
23:d1:74:GLN:HG2	23:d1:79:LEU:HB2	1.96	0.48
24:d2:67:GLY:C	24:d2:69:LEU:H	2.22	0.48
36:5:76:G:OP1	49:m3:70:ARG:NH1	2.46	0.48
36:5:114:A:N1	36:5:266:A:O2'	2.42	0.48
36:5:655:C:H2'	36:5:656:A:H8	1.79	0.48
36:5:712:G:H2'	36:5:713:U:H6	1.70	0.48
36:5:926:A:H2'	36:5:927:C:C6	2.49	0.48
36:5:1692:U:O4	36:5:1693:C:N4	2.47	0.48
39:l2:27:ALA:O	39:l2:128:ARG:NH2	2.46	0.48
40:l3:139:GLN:O	40:l3:141:GLY:N	2.46	0.48
40:l3:292:ALA:HB1	40:l3:295:ALA:CB	2.44	0.48
40:l3:308:MET:HE2	40:l3:372:THR:C	2.38	0.48
42:l5:129:TYR:HE1	42:l5:175:HIS:NE2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:137:SER:HB2	46:l9:143:GLU:HB3	1.94	0.48
48:m1:82:ARG:O	48:m1:86:VAL:HG23	2.14	0.48
54:m8:44:PHE:CE1	54:m8:82:VAL:HG21	2.49	0.48
59:n3:45:ARG:HD3	59:n3:46:LEU:N	2.28	0.48
61:n5:72:ALA:HB1	61:n5:83:VAL:HG21	1.95	0.48
62:n6:37:LYS:HA	62:n6:40:ARG:HB3	1.94	0.48
62:n6:75:ARG:C	62:n6:77:LYS:H	2.21	0.48
1:2:20:G:H5'	1:2:571:G:C5	2.48	0.48
1:2:74:U:H1'	1:2:75:U:O5'	2.14	0.48
1:2:987:G:O6	39:L2:251:LYS:HE3	2.14	0.48
1:2:1044:U:H2'	1:2:1045:C:C6	2.48	0.48
1:2:1057:U:H1'	1:2:1058:U:H2'	1.95	0.48
1:2:1180:C:O2	17:C5:128:HIS:HE1	1.97	0.48
1:2:1402:G:H2'	1:2:1403:C:H6	1.78	0.48
1:2:1420:C:OP1	31:D9:54:LYS:NZ	2.46	0.48
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.49	0.48
15:C3:99:ARG:CZ	15:C3:143:SER:HB3	2.43	0.48
20:C8:46:VAL:O	20:C8:50:ALA:N	2.47	0.48
25:D3:48:HIS:HB3	25:D3:104:LEU:O	2.13	0.48
33:E1:143:LYS:O	33:E1:145:HIS:N	2.47	0.48
36:1:108:A:O2'	36:1:109:A:H2'	2.13	0.48
36:1:138:U:H2'	36:1:139:G:C8	2.49	0.48
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.02	0.48
36:1:1362:G:H21	44:L7:158:LYS:NZ	2.12	0.48
36:1:1632:A:H2'	36:1:1633:C:C6	2.49	0.48
36:1:1642:A:O2'	36:1:1643:A:C8	2.67	0.48
36:1:2127:U:C4	36:1:2128:C:C5	3.02	0.48
36:1:2845:A:C2	36:1:2846:U:C2	3.02	0.48
37:3:36:C:O2'	37:3:37:G:H5'	2.14	0.48
41:L4:120:TYR:CE2	41:L4:277:PRO:HB3	2.49	0.48
46:L9:4:ILE:HG22	56:N0:142:GLN:OE1	2.13	0.48
47:M0:99:ILE:CG2	47:M0:123:HIS:HB2	2.40	0.48
47:M0:169:LYS:HZ2	57:N1:159:PHE:H	1.62	0.48
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	1.95	0.48
54:M8:152:HIS:CD2	54:M8:152:HIS:N	2.80	0.48
76:Q0:78:ILE:HG12	76:Q0:83:LYS:HG3	1.95	0.48
80:6:94:U:H2'	80:6:95:G:O4'	2.13	0.48
80:6:307:G:OP1	13:c1:90:TYR:OH	2.27	0.48
87:6:1920:OHX:N5	87:6:2098:OHX:N1	2.61	0.48
2:s0:55:GLU:OE2	23:d1:80:LYS:N	2.46	0.48
3:s1:77:GLU:O	3:s1:80:SER:OG	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:109:GLY:HA3	23:d1:11:LEU:HD21	1.95	0.48
10:s8:106:ALA:HB2	10:s8:165:LEU:HG	1.96	0.48
13:c1:42:PHE:CD1	13:c1:140:VAL:HG13	2.49	0.48
16:c4:42:VAL:HG11	16:c4:66:ASP:HB2	1.96	0.48
17:c5:18:ARG:NH2	17:c5:38:PRO:HG3	2.28	0.48
24:d2:106:THR:HG22	24:d2:122:SER:C	2.38	0.48
36:5:30:G:P	51:m5:172:ARG:HH11	2.35	0.48
36:5:1339:C:OP1	68:o2:61:LYS:HG3	2.13	0.48
36:5:1498:A:H5'	36:5:1602:A:H1'	1.96	0.48
36:5:1654:A:H2'	36:5:1655:G:C5'	2.43	0.48
36:5:2219:A:H61	36:5:2226:U:H3	1.60	0.48
36:5:2697:A:H2'	36:5:2698:G:H8	1.79	0.48
36:5:3245:A:H2	36:5:3246:G:C6	2.31	0.48
36:5:3317:U:H6	87:5:3644:OHX:N6	2.12	0.48
38:8:83:C:H3'	38:8:83:C:P	2.53	0.48
41:l4:206:LEU:HB2	41:l4:246:ARG:HD2	1.95	0.48
42:l5:95:TRP:CH2	42:l5:181:PRO:HG3	2.48	0.48
52:m6:61:ALA:HA	52:m6:70:PRO:HD2	1.96	0.48
56:n0:75:PHE:CE1	56:n0:99:ARG:HG3	2.49	0.48
56:n0:137:ARG:HG2	56:n0:139:TYR:CE1	2.49	0.48
62:n6:37:LYS:HE2	62:n6:37:LYS:H	1.77	0.48
66:o0:54:SER:HA	66:o0:57:GLU:OE2	2.12	0.48
68:o2:119:VAL:HG12	68:o2:122:PRO:CD	2.44	0.48
71:o5:63:ARG:O	71:o5:67:ARG:HG3	2.14	0.48
73:o7:4:GLY:O	73:o7:7:SER:N	2.44	0.48
73:o7:54:LYS:O	73:o7:58:THR:N	2.47	0.48
78:q2:40:LYS:O	78:q2:44:ASP:HB2	2.14	0.48
1:2:190:C:H1'	1:2:191:C:H5'	1.95	0.48
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.45	0.48
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.13	0.48
1:2:737:A:OP2	1:2:737:A:H2'	2.13	0.48
1:2:783:G:O2'	1:2:784:C:H6	1.97	0.48
1:2:1199:G:C5	31:D9:40:ARG:HD3	2.49	0.48
1:2:1274:C:H4'	1:2:1275:A:O5'	2.14	0.48
1:2:1474:G:H2'	1:2:1475:A:C8	2.49	0.48
1:2:1583:A:N1	1:2:1611:A:H5''	2.29	0.48
2:S0:76:ILE:O	2:S0:124:THR:HG23	2.14	0.48
4:S2:228:ASN:ND2	23:D1:1:MET:HB3	2.29	0.48
5:S3:211:PRO:HG3	19:C7:20:TYR:CE1	2.48	0.48
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.12	0.48
11:S9:125:ALA:O	11:S9:129:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:61:THR:HG22	29:D7:32:PHE:CZ	2.48	0.48
21:C9:89:ARG:HH11	21:C9:89:ARG:HG3	1.78	0.48
36:1:543:C:H3'	36:1:544:C:C5	2.49	0.48
36:1:1556:C:H2'	36:1:2169:G:N1	2.29	0.48
36:1:1668:G:C6	36:1:1669:C:C4	3.01	0.48
36:1:2257:C:H2'	36:1:2258:U:O4'	2.13	0.48
36:1:2507:C:H2'	36:1:2508:U:C6	2.49	0.48
36:1:3205:G:OP2	36:1:3206:C:N4	2.43	0.48
36:1:3235:C:C4	36:1:3236:U:C4	3.01	0.48
38:4:78:G:H2'	38:4:79:A:C8	2.48	0.48
41:L4:122:THR:HA	41:L4:235:LEU:HD13	1.95	0.48
41:L4:169:LEU:O	41:L4:172:VAL:HG12	2.14	0.48
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.13	0.48
51:M5:144:ARG:O	51:M5:145:ASP:C	2.55	0.48
76:Q0:79:GLU:CG	76:Q0:82:LEU:HG	2.44	0.48
80:6:214:G:O6	87:6:2005:OHX:N4	2.46	0.48
80:6:255:U:H2'	80:6:256:A:C8	2.48	0.48
80:6:658:C:H5'	80:6:659:C:OP2	2.13	0.48
80:6:805:U:C2'	80:6:806:A:H5'	2.44	0.48
80:6:1255:G:H4'	80:6:1256:A:OP1	2.14	0.48
80:6:1435:G:N7	81:c0:25:LYS:NZ	2.51	0.48
80:6:1525:A:H2'	80:6:1526:A:C8	2.48	0.48
2:s0:109:ASN:O	2:s0:112:THR:HG22	2.13	0.48
2:s0:131:GLN:OE1	2:s0:135:GLU:HG3	2.13	0.48
3:s1:70:LEU:HD13	3:s1:79:HIS:CG	2.49	0.48
6:s4:130:GLN:HG2	6:s4:131:LEU:N	2.29	0.48
7:s5:27:THR:OG1	18:c6:28:LEU:HA	2.13	0.48
14:c2:41:LEU:O	14:c2:43:ARG:HD3	2.14	0.48
18:c6:52:LEU:HB2	18:c6:53:LEU:HD23	1.95	0.48
36:5:174:C:H2'	36:5:175:C:O4'	2.13	0.48
36:5:240:U:O2'	36:5:241:G:O5'	2.29	0.48
36:5:1556:C:H5''	36:5:2169:G:H22	1.79	0.48
36:5:1915:A:H2'	36:5:1916:U:C6	2.49	0.48
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.48	0.48
36:5:2897:A:H2'	36:5:2899:C:C5'	2.43	0.48
39:l2:40:TYR:HA	39:l2:90:ALA:O	2.14	0.48
40:l3:35:ASP:OD2	40:l3:191:LYS:NZ	2.32	0.48
42:l5:120:LYS:HD3	42:l5:123:GLU:OE1	2.14	0.48
47:m0:95:HIS:C	47:m0:95:HIS:CD2	2.91	0.48
49:m3:128:ARG:HH21	71:o5:114:ARG:NH1	2.12	0.48
50:m4:40:ASP:OD1	50:m4:43:LYS:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:47:LYS:HE3	51:m5:51:LEU:HD11	1.95	0.48
56:n0:16:THR:OG1	56:n0:19:VAL:N	2.42	0.48
57:n1:39:ILE:HD12	57:n1:102:ARG:HB2	1.95	0.48
58:n2:50:LEU:HB3	58:n2:54:VAL:CG2	2.44	0.48
68:o2:64:LYS:O	68:o2:65:PHE:HB2	2.14	0.48
74:o8:27:ILE:HD13	74:o8:41:THR:HB	1.96	0.48
79:q3:86:LEU:O	79:q3:90:VAL:HG23	2.14	0.48
84:p0:69:ASP:HB2	84:p0:70:LEU:HD23	1.95	0.48
1:2:616:G:N2	1:2:622:A:C8	2.82	0.48
1:2:783:G:O2'	1:2:784:C:O5'	2.32	0.48
1:2:838:G:H2'	1:2:839:U:H6	1.76	0.48
1:2:1086:A:C6	1:2:1087:A:C6	3.01	0.48
1:2:1158:C:OP2	87:2:2016:OHX:N5	2.46	0.48
1:2:1314:U:OP1	87:2:2085:OHX:N5	2.47	0.48
1:2:1351:G:C2	1:2:1375:A:C2	3.02	0.48
1:2:1458:G:H3'	1:2:1459:C:C6	2.49	0.48
1:2:1576:A:H2'	1:2:1577:A:O4'	2.14	0.48
1:2:1800:U:H1'	1:2:1828:G:N2	2.29	0.48
1:2:1828:G:OP2	1:2:1828:G:H8	1.97	0.48
3:S1:61:LEU:CD2	3:S1:62:LYS:H	2.26	0.48
6:S4:212:ASP:OD1	6:S4:214:LEU:N	2.47	0.48
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	1.96	0.48
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.95	0.48
14:C2:28:LEU:HD22	14:C2:32:LEU:HG	1.95	0.48
17:C5:34:VAL:HG11	17:C5:45:PHE:CD1	2.49	0.48
26:D4:127:LYS:HE3	26:D4:127:LYS:O	2.12	0.48
35:SM:120:GLU:O	35:SM:124:GLN:N	2.35	0.48
36:1:1246:G:OP1	36:1:1246:G:H8	1.97	0.48
36:1:1488:G:H5''	36:1:1838:G:O6	2.13	0.48
36:1:1528:G:O2'	36:1:1588:A:N3	2.39	0.48
36:1:1560:G:C2'	36:1:1561:G:H5'	2.44	0.48
36:1:2503:G:H1'	36:1:2504:U:C5	2.44	0.48
36:1:2726:C:O2'	36:1:2727:A:H2'	2.13	0.48
36:1:3017:A:C2	36:1:3038:U:C2	3.02	0.48
36:1:3199:G:H5''	50:M4:6:ILE:HG21	1.95	0.48
36:1:3227:A:C2'	36:1:3228:C:H5'	2.43	0.48
37:3:48:U:O4	42:L5:58:LYS:HE2	2.14	0.48
38:4:91:C:H2'	38:4:92:A:H8	1.79	0.48
39:L2:204:MET:HE2	39:L2:209:HIS:ND1	2.28	0.48
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.95	0.48
44:L7:24:GLU:CD	44:L7:25:GLN:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:106:LEU:HB3	55:M9:120:TYR:CD1	2.48	0.48
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.46	0.48
63:N7:2:ALA:O	63:N7:4:PHE:N	2.47	0.48
66:O0:34:LEU:HA	66:O0:34:LEU:HD12	1.78	0.48
67:O1:12:TYR:HD2	67:O1:75:ILE:HG13	1.79	0.48
67:O1:15:ASN:ND2	67:O1:18:LYS:HB3	2.28	0.48
68:O2:105:ARG:O	68:O2:109:LEU:HB2	2.14	0.48
70:O4:30:LEU:HA	70:O4:30:LEU:HD23	1.51	0.48
75:O9:8:ARG:O	75:O9:12:LYS:HG3	2.14	0.48
80:6:151:G:H21	8:s6:13:GLN:CD	2.20	0.48
80:6:407:A:H5'	8:s6:94:ARG:HH21	1.77	0.48
80:6:609:U:H1'	25:d3:19:ARG:HD3	1.96	0.48
80:6:1092:A:C8	80:6:1094:G:C8	3.02	0.48
80:6:1217:A:H4'	81:c0:44:LYS:HE3	1.96	0.48
80:6:1373:C:O5'	80:6:1373:C:H6	1.96	0.48
80:6:1620:C:H2'	80:6:1621:U:C6	2.48	0.48
9:s7:33:GLU:C	9:s7:35:LYS:H	2.22	0.48
9:s7:51:VAL:HG12	9:s7:53:GLY:H	1.78	0.48
9:s7:104:ARG:O	9:s7:107:ARG:NH2	2.47	0.48
10:s8:172:ARG:O	10:s8:175:GLN:N	2.41	0.48
14:c2:30:VAL:HB	14:c2:132:GLU:HG3	1.95	0.48
18:c6:43:ILE:H	18:c6:43:ILE:HD13	1.78	0.48
18:c6:60:PHE:CE2	18:c6:89:LEU:HD22	2.49	0.48
26:d4:87:PRO:HG2	26:d4:90:ARG:CZ	2.43	0.48
33:e1:103:LEU:HD23	33:e1:105:TYR:HB2	1.96	0.48
36:5:436:A:H5''	87:5:3802:OHX:N4	2.28	0.48
36:5:1846:C:C4	53:m7:136:ILE:HG13	2.48	0.48
36:5:1921:A:H2'	36:5:1922:A:C8	2.47	0.48
36:5:1927:G:N2	36:5:1928:G:C8	2.81	0.48
36:5:2180:G:H2'	36:5:2181:C:H6	1.77	0.48
36:5:2180:G:P	39:l2:174:ARG:HH22	2.37	0.48
36:5:2908:G:O2'	76:q0:114:LYS:NZ	2.44	0.48
36:5:3140:G:N7	40:l3:28:ARG:NH2	2.61	0.48
36:5:3218:A:H5''	36:5:3219:G:N7	2.28	0.48
37:7:96:U:OP1	56:n0:43:TYR:OH	2.26	0.48
38:8:152:G:OP2	45:l8:60:ARG:HG2	2.14	0.48
47:m0:35:ASP:OD1	47:m0:86:HIS:NE2	2.47	0.48
49:m3:164:GLU:O	64:n8:139:ARG:NH2	2.47	0.48
54:m8:139:ILE:O	54:m8:140:LEU:HD23	2.13	0.48
58:n2:17:VAL:HA	58:n2:103:TYR:O	2.13	0.48
58:n2:54:VAL:HG13	58:n2:67:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:24:PRO:HD2	65:n9:25:LYS:H	1.78	0.48
66:o0:13:LYS:HB3	66:o0:100:ILE:HG23	1.96	0.48
68:o2:21:HIS:CD2	68:o2:24:ARG:HD2	2.49	0.48
68:o2:111:ARG:CZ	68:o2:115:LEU:HD11	2.43	0.48
75:o9:21:ARG:HD3	75:o9:22:PRO:O	2.14	0.48
1:2:279:G:N7	1:2:281:G:C8	2.82	0.48
1:2:1349:G:H1	1:2:1376:C:N4	2.12	0.48
1:2:1511:U:H2'	1:2:1512:G:C8	2.49	0.48
3:S1:140:ILE:HG21	3:S1:213:ARG:HD3	1.95	0.48
8:S6:64:LYS:NZ	8:S6:81:VAL:HG22	2.29	0.48
11:S9:95:TYR:O	11:S9:99:LEU:N	2.47	0.48
13:C1:71:LEU:HB3	13:C1:88:ARG:NH1	2.29	0.48
27:D5:92:ILE:HG12	27:D5:100:ILE:HG22	1.95	0.48
28:D6:86:VAL:O	28:D6:87:ARG:HG3	2.13	0.48
34:SR:128:ASP:O	34:SR:130:THR:HG23	2.13	0.48
34:SR:222:LEU:O	34:SR:231:MET:HB2	2.14	0.48
36:1:269:G:H5''	51:M5:14:LYS:HE2	1.96	0.48
36:1:437:G:H2'	36:1:438:A:C8	2.48	0.48
36:1:1352:A:H4'	36:1:1353:U:OP1	2.14	0.48
36:1:1865:A:O5'	36:1:1865:A:H8	1.97	0.48
36:1:1915:A:H2'	36:1:1916:U:C6	2.49	0.48
36:1:2177:G:O6	87:1:3461:OHX:N4	2.47	0.48
36:1:2577:C:H2'	36:1:2578:U:O4'	2.14	0.48
36:1:3183:A:H2	36:1:3188:G:H4'	1.79	0.48
39:L2:103:PRO:HA	39:L2:162:ALA:O	2.13	0.48
41:L4:44:LYS:HB3	41:L4:47:ARG:HD2	1.95	0.48
42:L5:129:TYR:OH	42:L5:175:HIS:O	2.25	0.48
43:L6:142:ASP:O	43:L6:146:ILE:HG13	2.14	0.48
44:L7:175:LYS:HD2	44:L7:176:TYR:CE1	2.49	0.48
49:M3:144:THR:HB	49:M3:145:PHE:CD2	2.49	0.48
57:N1:57:TYR:HD1	57:N1:76:ILE:HG21	1.79	0.48
57:N1:91:LEU:HD12	57:N1:96:ILE:HD13	1.95	0.48
63:N7:7:ALA:HB1	63:N7:89:VAL:HG11	1.96	0.48
63:N7:17:ARG:HA	70:O4:74:ARG:HA	1.96	0.48
71:O5:67:ARG:O	71:O5:71:LYS:N	2.47	0.48
80:6:209:U:H2'	80:6:210:A:C8	2.49	0.48
80:6:337:G:H5''	80:6:337:G:H8	1.78	0.48
80:6:506:A:OP1	80:6:506:A:H3'	2.14	0.48
80:6:567:A:H1'	32:e0:14:VAL:HG23	1.96	0.48
80:6:675:U:H2'	80:6:676:G:C8	2.48	0.48
80:6:978:A:H2'	80:6:979:A:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:50:PHE:HB3	8:s6:111:LEU:HB3	1.95	0.48
11:s9:47:PHE:CZ	11:s9:51:LYS:HE2	2.49	0.48
11:s9:149:ARG:O	11:s9:150:LEU:C	2.56	0.48
14:c2:35:ALA:HA	14:c2:126:TRP:HA	1.96	0.48
14:c2:75:VAL:O	14:c2:79:ALA:N	2.40	0.48
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.49	0.48
16:c4:125:SER:OG	16:c4:126:THR:N	2.47	0.48
17:c5:77:ARG:HB3	17:c5:102:PHE:CD1	2.48	0.48
20:c8:23:ASP:OD1	20:c8:24:GLY:N	2.47	0.48
34:sR:85:TRP:C	34:sR:87:LYS:H	2.21	0.48
36:5:632:G:OP1	52:m6:94:ARG:N	2.44	0.48
36:5:1462:A:C6	36:5:1463:U:C4	3.01	0.48
36:5:1692:U:C4	36:5:1693:C:N4	2.82	0.48
36:5:1729:A:H4'	36:5:1730:G:OP2	2.13	0.48
36:5:2384:A:H8	36:5:2384:A:O5'	1.97	0.48
36:5:2954:U:H3	86:B:3403:8AN:HO2'	1.59	0.48
36:5:3043:C:P	59:n3:48:ARG:NH2	2.87	0.48
38:8:142:C:OP1	51:m5:38:ARG:NH1	2.44	0.48
43:l6:78:ARG:NH1	43:l6:78:ARG:HG3	2.26	0.48
47:m0:87:LEU:HD23	47:m0:138:VAL:CG2	2.37	0.48
47:m0:96:VAL:HG11	47:m0:122:PRO:HB3	1.96	0.48
49:m3:46:ILE:HD13	49:m3:46:ILE:HA	1.57	0.48
55:m9:23:TRP:CH2	55:m9:25:ASP:HA	2.49	0.48
64:n8:60:TYR:CG	64:n8:63:LYS:HB2	2.49	0.48
68:o2:24:ARG:HD3	68:o2:25:TYR:OH	2.14	0.48
76:q0:77:ILE:O	76:q0:78:ILE:HG23	2.13	0.48
1:2:122:U:H5''	6:S4:77:ARG:HH21	1.78	0.47
1:2:201:G:H2'	1:2:202:A:H8	1.78	0.47
1:2:549:G:C2	1:2:550:A:C8	3.01	0.47
1:2:795:U:C5	1:2:796:A:C5	3.02	0.47
1:2:1201:G:N2	1:2:1600:A:H5''	2.29	0.47
1:2:1758:U:H2'	1:2:1759:C:C6	2.48	0.47
3:S1:70:LEU:HD11	3:S1:79:HIS:HB3	1.95	0.47
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	1.95	0.47
9:S7:73:VAL:O	9:S7:75:THR:N	2.41	0.47
14:C2:50:LYS:HE2	33:E1:103:LEU:HD11	1.96	0.47
21:C9:115:GLU:O	21:C9:117:SER:N	2.47	0.47
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.49	0.47
34:SR:83:ALA:HB2	34:SR:113:VAL:HB	1.97	0.47
36:1:501:A:H2'	36:1:502:U:H6	1.79	0.47
36:1:1252:A:H2'	36:1:1253:U:C5	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1581:C:C2	36:1:1582:C:H5'	2.48	0.47
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	1.95	0.47
44:L7:83:LEU:HD22	44:L7:84:VAL:H	1.79	0.47
45:L8:75:ILE:HG22	45:L8:76:ALA:N	2.19	0.47
45:L8:184:ALA:O	45:L8:188:THR:HG23	2.14	0.47
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.96	0.47
61:N5:121:LYS:HD3	61:N5:123:TYR:CE1	2.48	0.47
65:N9:28:LYS:HD2	65:N9:29:TYR:CE1	2.48	0.47
68:O2:2:ALA:O	68:O2:90:LYS:HE3	2.14	0.47
69:O3:73:ARG:CD	69:O3:82:ARG:HD2	2.44	0.47
80:6:76:A:H2'	87:6:2074:OHX:N2	2.29	0.47
80:6:517:U:O4	87:6:1956:OHX:N4	2.48	0.47
80:6:662:U:O4	80:6:664:U:N3	2.47	0.47
80:6:1650:U:H2'	80:6:1651:A:C8	2.48	0.47
80:6:1662:G:H1	80:6:1739:C:H42	1.62	0.47
2:s0:31:VAL:HA	2:s0:34:GLU:OE2	2.14	0.47
2:s0:66:ALA:HB1	23:d1:50:TYR:CE1	2.49	0.47
6:s4:179:LYS:O	6:s4:194:THR:HA	2.14	0.47
8:s6:5:ILE:HA	8:s6:111:LEU:O	2.13	0.47
13:c1:76:VAL:HG12	13:c1:85:VAL:O	2.14	0.47
13:c1:86:ILE:HD12	13:c1:109:VAL:HG11	1.96	0.47
23:d1:9:VAL:O	23:d1:10:GLU:HB3	2.13	0.47
25:d3:29:TYR:O	25:d3:32:ARG:N	2.47	0.47
32:e0:13:LYS:HE3	32:e0:17:GLN:HE22	1.78	0.47
36:5:308:A:H5'	36:5:2223:A:O2'	2.14	0.47
36:5:1010:G:H5''	36:5:1010:G:C8	2.48	0.47
36:5:1063:G:N1	57:n1:109:VAL:HG13	2.29	0.47
36:5:2315:G:C2	36:5:2316:G:N7	2.81	0.47
36:5:2404:A:H2'	36:5:2405:C:H5'	1.95	0.47
36:5:2537:U:O2'	36:5:2538:U:O4'	2.32	0.47
36:5:3287:U:N3	36:5:3288:G:C8	2.82	0.47
87:5:3709:OHX:N2	72:o6:28:TYR:O	2.47	0.47
38:8:9:A:O2'	38:8:10:A:H5'	2.14	0.47
40:l3:151:ILE:O	40:l3:155:ALA:HB3	2.14	0.47
41:l4:138:ARG:NE	41:l4:240:PRO:HD2	2.22	0.47
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.49	0.47
51:m5:96:ARG:HH11	51:m5:96:ARG:HG2	1.79	0.47
53:m7:96:GLN:O	53:m7:97:ASN:C	2.57	0.47
56:n0:171:PHE:O	56:n0:172:TYR:C	2.57	0.47
57:n1:101:CYS:SG	57:n1:102:ARG:N	2.87	0.47
62:n6:54:ASP:OD2	62:n6:115:ARG:NH2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:p0:25:LEU:HD13	84:p0:88:PHE:CE2	2.49	0.47
1:2:134:U:OP1	1:2:136:C:N4	2.47	0.47
1:2:639:U:OP1	9:S7:118:LEU:N	2.47	0.47
1:2:648:G:N3	1:2:648:G:H2'	2.29	0.47
1:2:702:G:C6	1:2:737:A:N6	2.82	0.47
1:2:1169:G:O2'	1:2:1576:A:N6	2.47	0.47
1:2:1458:G:H5''	1:2:1459:C:OP2	2.14	0.47
1:2:1509:C:H2'	1:2:1510:U:O4'	2.14	0.47
2:S0:142:PRO:HB3	23:D1:34:ILE:HD13	1.95	0.47
5:S3:113:LEU:HD23	5:S3:113:LEU:HA	1.71	0.47
6:S4:106:LYS:O	6:S4:187:ARG:NH2	2.47	0.47
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.95	0.47
10:S8:117:TYR:O	10:S8:119:GLN:HG2	2.14	0.47
18:C6:5:PRO:HG2	18:C6:24:ALA:CB	2.42	0.47
23:D1:83:TRP:HH2	23:D1:85:TYR:HD2	1.61	0.47
36:1:874:U:OP1	40:L3:241:LYS:HG3	2.14	0.47
36:1:1009:A:OP2	87:1:3632:OHX:N1	2.46	0.47
36:1:1431:G:OP2	64:N8:9:ARG:NH2	2.39	0.47
36:1:2617:U:H5	36:1:2621:G:OP2	1.96	0.47
36:1:2676:A:N1	48:M1:22:SER:HB3	2.29	0.47
36:1:2814:G:OP1	41:L4:73:ARG:NH2	2.47	0.47
38:4:58:G:N2	38:4:100:U:C2	2.82	0.47
40:L3:79:VAL:HG11	40:L3:338:LEU:HD21	1.96	0.47
44:L7:106:LEU:O	44:L7:108:LEU:HG	2.13	0.47
46:L9:8:GLN:HG3	46:L9:69:ARG:HA	1.94	0.47
47:M0:138:VAL:CG2	47:M0:152:LEU:HD11	2.44	0.47
56:N0:73:LYS:HB2	56:N0:75:PHE:CE2	2.50	0.47
61:N5:69:SER:O	61:N5:73:MET:HG2	2.14	0.47
65:N9:18:ARG:O	87:N9:101:OHX:N5	2.47	0.47
66:O0:24:THR:HG23	66:O0:30:THR:HG22	1.96	0.47
74:O8:66:ILE:HA	74:O8:69:LEU:HD23	1.96	0.47
76:Q0:94:SER:OG	76:Q0:104:PRO:O	2.32	0.47
80:6:6:G:OP2	4:s2:205:ARG:HD2	2.14	0.47
80:6:491:C:N4	80:6:497:G:H21	2.11	0.47
80:6:832:U:H2'	80:6:833:U:O4'	2.13	0.47
80:6:1081:A:O2'	80:6:1082:C:C6	2.65	0.47
80:6:1198:G:O2'	22:d0:72:ASN:HA	2.14	0.47
80:6:1207:C:N4	80:6:1456:C:H5	2.05	0.47
80:6:1478:G:P	21:c9:43:ASN:HD21	2.38	0.47
80:6:1619:C:H2'	80:6:1620:C:H6	1.78	0.47
5:s3:70:THR:HG22	5:s3:86:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c0:70:GLU:O	81:c0:73:VAL:HG22	2.13	0.47
18:c6:102:LYS:HE2	18:c6:102:LYS:HB3	1.58	0.47
21:c9:14:PHE:CZ	21:c9:132:LEU:HD12	2.49	0.47
28:d6:88:SER:O	28:d6:92:ARG:HG3	2.13	0.47
34:sR:239:GLU:O	34:sR:257:ALA:N	2.47	0.47
82:sM:23:LYS:HE3	82:sM:24:GLU:H	1.78	0.47
36:5:316:U:O2'	72:o6:30:LYS:HD3	2.14	0.47
36:5:595:G:H2'	36:5:596:C:C6	2.49	0.47
36:5:789:A:H2'	36:5:790:U:C6	2.49	0.47
36:5:1610:G:P	61:n5:125:ARG:HH12	2.37	0.47
36:5:1676:A:OP2	58:n2:73:GLY:N	2.41	0.47
36:5:1785:U:H2'	36:5:1786:G:C8	2.49	0.47
36:5:2659:G:N7	87:5:3409:OHX:N6	2.62	0.47
37:7:100:C:OP2	56:n0:52:LYS:NZ	2.42	0.47
38:8:79:A:H2'	38:8:80:A:O4'	2.14	0.47
38:8:107:G:H1'	38:8:116:G:N2	2.29	0.47
41:l4:60:THR:HG22	41:l4:62:ALA:N	2.28	0.47
43:l6:109:GLU:CD	43:l6:109:GLU:H	2.15	0.47
44:l7:96:PRO:O	44:l7:99:PRO:HD2	2.14	0.47
44:l7:103:LEU:N	44:l7:130:ILE:HD11	2.29	0.47
46:l9:111:PHE:CD1	46:l9:127:PRO:HA	2.44	0.47
46:l9:175:PHE:CD2	46:l9:175:PHE:N	2.80	0.47
48:m1:26:SER:HB3	48:m1:63:GLU:HG2	1.96	0.47
49:m3:55:ARG:O	49:m3:115:ARG:NH2	2.47	0.47
53:m7:48:LEU:HB3	53:m7:88:VAL:HG13	1.96	0.47
54:m8:46:LYS:O	54:m8:50:LYS:HG3	2.14	0.47
61:n5:44:PRO:O	61:n5:45:LYS:HB2	2.13	0.47
62:n6:55:GLU:HB2	62:n6:108:LYS:HB2	1.96	0.47
73:o7:28:HIS:CE1	73:o7:31:LYS:H	2.32	0.47
1:2:76:A:H5'	1:2:77:U:OP2	2.13	0.47
1:2:119:A:H2'	1:2:120:U:O4'	2.14	0.47
1:2:1163:A:N6	1:2:1164:G:C6	2.82	0.47
1:2:1244:A:H3'	1:2:1244:A:N3	2.29	0.47
1:2:1256:A:H4'	1:2:1257:U:O5'	2.13	0.47
1:2:1388:A:C5	1:2:1411:A:C6	3.02	0.47
3:S1:164:ILE:HG22	3:S1:168:ILE:HD11	1.97	0.47
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.44	0.47
7:S5:44:ASN:O	7:S5:45:LYS:HG2	2.15	0.47
8:S6:39:GLU:HA	8:S6:42:GLY:O	2.14	0.47
8:S6:58:LYS:HE3	8:S6:105:ASP:C	2.39	0.47
9:S7:35:LYS:HZ2	9:S7:39:ARG:HD2	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:131:PHE:C	9:S7:133:THR:H	2.15	0.47
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.49	0.47
10:S8:166:TYR:HB3	10:S8:184:LEU:HD22	1.97	0.47
14:C2:33:ARG:O	14:C2:37:VAL:HG23	2.14	0.47
16:C4:124:ASP:O	16:C4:125:SER:HB2	2.12	0.47
25:D3:29:TYR:CZ	25:D3:33:LEU:HD12	2.50	0.47
32:E0:38:LEU:HD23	32:E0:42:ARG:HG3	1.95	0.47
36:1:681:U:C2	41:L4:115:HIS:ND1	2.81	0.47
36:1:789:A:H2'	36:1:790:U:H6	1.77	0.47
36:1:1056:U:O2'	37:3:82:G:H4'	2.14	0.47
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.13	0.47
36:1:1770:G:H5'	36:1:1771:C:OP2	2.14	0.47
36:1:2984:C:H2'	36:1:2985:C:C6	2.50	0.47
36:1:3200:G:H2'	36:1:3201:C:O4'	2.14	0.47
39:L2:32:LEU:HB2	39:L2:163:ARG:HH21	1.79	0.47
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.38	0.47
41:L4:58:HIS:CD2	41:L4:98:ARG:HB2	2.48	0.47
41:L4:79:GLY:O	41:L4:85:SER:HB2	2.14	0.47
43:L6:52:VAL:HG13	43:L6:65:ILE:HB	1.96	0.47
46:L9:2:LYS:HA	46:L9:60:GLY:O	2.14	0.47
50:M4:21:VAL:HG13	50:M4:63:VAL:CG2	2.43	0.47
50:M4:55:ARG:HB3	56:N0:70:THR:HG21	1.95	0.47
55:M9:45:VAL:HG22	55:M9:50:ILE:HB	1.96	0.47
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.49	0.47
80:6:207:U:H3	80:6:258:C:N4	2.09	0.47
80:6:542:A:O2'	80:6:543:C:O5'	2.24	0.47
80:6:1727:G:H2'	80:6:1728:A:C8	2.49	0.47
2:s0:63:ILE:HD13	23:d1:34:ILE:HG21	1.97	0.47
2:s0:142:PRO:HB3	23:d1:34:ILE:CD1	2.44	0.47
5:s3:119:ALA:O	5:s3:123:VAL:HG23	2.14	0.47
6:s4:160:VAL:HG12	6:s4:162:ILE:HD12	1.97	0.47
8:s6:158:ILE:HG23	60:n4:85:ALA:HB2	1.95	0.47
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.97	0.47
34:sR:198:ASN:O	34:sR:215:GLY:HA3	2.14	0.47
36:5:1729:A:N1	79:q3:42:CYS:HA	2.29	0.47
36:5:2239:G:O6	87:5:3712:OHX:N5	2.47	0.47
36:5:2389:C:N4	36:5:2990:G:H1	2.11	0.47
36:5:2549:G:C2	45:l8:33:ASN:HA	2.50	0.47
36:5:3015:G:H2'	36:5:3016:A:O4'	2.14	0.47
47:m0:72:ALA:O	47:m0:76:MET:HG2	2.14	0.47
50:m4:76:ALA:HB1	50:m4:80:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:62:VAL:O	54:m8:87:VAL:HA	2.13	0.47
54:m8:94:PHE:CE2	64:n8:119:PRO:HD3	2.49	0.47
57:n1:27:LEU:O	57:n1:28:SER:C	2.57	0.47
66:o0:30:THR:O	66:o0:34:LEU:N	2.44	0.47
68:o2:12:LYS:HD3	68:o2:57:TYR:C	2.39	0.47
69:o3:16:TYR:HB3	69:o3:24:ASN:O	2.14	0.47
1:2:1369:U:O4	87:2:2030:OHX:N6	2.47	0.47
1:2:1795:U:OP1	28:D6:86:VAL:HG23	2.15	0.47
3:S1:81:PHE:CD1	3:S1:109:LYS:HG2	2.50	0.47
5:S3:124:ARG:NH2	35:SM:124:GLN:HB2	2.29	0.47
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.15	0.47
6:S4:163:ASP:OD1	6:S4:165:ALA:HB3	2.14	0.47
9:S7:28:GLU:O	9:S7:30:SER:N	2.47	0.47
12:C0:61:TRP:HZ2	31:D9:46:LYS:HE3	1.79	0.47
15:C3:87:ASP:OD2	15:C3:125:LEU:HD11	2.13	0.47
25:D3:59:ILE:HG12	25:D3:71:CYS:SG	2.55	0.47
25:D3:93:LEU:HD21	32:E0:8:LEU:HD13	1.95	0.47
33:E1:127:GLY:O	33:E1:129:GLY:N	2.46	0.47
36:1:79:U:H2'	36:1:80:G:H8	1.79	0.47
36:1:340:C:O2	36:1:344:A:H2	1.97	0.47
36:1:1605:A:O2'	36:1:1607:U:OP2	2.15	0.47
36:1:1816:A:O2'	36:1:1817:G:OP1	2.26	0.47
36:1:2203:U:H4'	39:L2:241:ARG:HA	1.96	0.47
36:1:2357:A:H2'	36:1:2358:A:H8	1.79	0.47
36:1:3182:G:P	52:M6:117:ARG:HH21	2.36	0.47
87:1:3535:OHX:N1	87:1:3747:OHX:N3	2.62	0.47
40:L3:85:VAL:HG13	40:L3:163:HIS:CD2	2.50	0.47
41:L4:193:LYS:HA	41:L4:198:ARG:HA	1.96	0.47
44:L7:144:ILE:O	44:L7:148:VAL:HG23	2.15	0.47
48:M1:40:LEU:HD11	48:M1:79:ILE:HG21	1.97	0.47
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.46	0.47
61:N5:40:LEU:HA	61:N5:40:LEU:HD12	1.62	0.47
80:6:191:C:O2'	80:6:192:U:O5'	2.32	0.47
80:6:304:U:O2	13:c1:69:LYS:HE2	2.13	0.47
80:6:339:C:O2'	80:6:340:U:H5'	2.14	0.47
80:6:895:G:O2'	16:c4:37:GLU:HA	2.14	0.47
80:6:973:A:H2'	80:6:974:A:H8	1.76	0.47
80:6:1358:G:H1'	21:c9:129:GLN:NE2	2.29	0.47
2:s0:80:THR:HA	2:s0:83:GLN:OE1	2.14	0.47
2:s0:119:ARG:NE	4:s2:240:LEU:HD23	2.21	0.47
2:s0:142:PRO:HG3	23:d1:32:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:78:ARG:HG3	11:s9:79:ARG:N	2.29	0.47
17:c5:51:SER:C	17:c5:53:PRO:HD2	2.40	0.47
17:c5:85:ILE:CD1	17:c5:119:PHE:HE2	2.27	0.47
18:c6:43:ILE:H	18:c6:43:ILE:CD1	2.28	0.47
19:c7:10:LYS:HD3	19:c7:53:TYR:OH	2.14	0.47
20:c8:14:ILE:HD11	20:c8:21:ASN:HB3	1.95	0.47
21:c9:105:LEU:HB3	21:c9:122:ARG:NE	2.30	0.47
25:d3:51:GLY:O	25:d3:101:GLU:HA	2.14	0.47
36:5:144:A:H2'	36:5:145:G:O4'	2.13	0.47
36:5:972:A:OP1	54:m8:12:ARG:NH2	2.47	0.47
36:5:1356:U:H5''	36:5:1357:G:H8	1.80	0.47
36:5:1734:G:H2'	36:5:1735:G:C8	2.49	0.47
36:5:2154:U:OP1	39:l2:242:ARG:NH1	2.48	0.47
36:5:2507:C:O2'	36:5:2508:U:OP1	2.27	0.47
36:5:3006:A:C2	36:5:3141:A:C4	3.02	0.47
36:5:3051:U:H1'	59:n3:92:PHE:CZ	2.49	0.47
37:7:1:G:C2	37:7:2:G:C8	3.03	0.47
41:l4:11:LEU:HD13	41:l4:159:ILE:HD11	1.96	0.47
41:l4:30:ILE:HG23	41:l4:124:SER:O	2.13	0.47
49:m3:53:LEU:HD22	49:m3:94:GLY:O	2.14	0.47
54:m8:122:ILE:HG22	54:m8:123:THR:O	2.15	0.47
57:n1:68:THR:HG23	57:n1:69:LYS:N	2.29	0.47
60:n4:31:PHE:HZ	60:n4:40:PHE:CD1	2.32	0.47
61:n5:106:ASP:O	61:n5:127:THR:HG23	2.13	0.47
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.14	0.47
1:2:772:G:N2	1:2:774:A:H1'	2.29	0.47
1:2:909:U:H2'	1:2:910:C:C6	2.49	0.47
1:2:1002:G:N2	1:2:1760:G:O3'	2.39	0.47
1:2:1147:A:H2'	1:2:1148:C:H6	1.80	0.47
1:2:1535:U:H1'	1:2:1536:G:C2	2.50	0.47
3:S1:97:LEU:HD13	3:S1:98:THR:H	1.79	0.47
3:S1:157:GLN:HB2	3:S1:160:HIS:CG	2.49	0.47
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.97	0.47
6:S4:54:TYR:OH	6:S4:97:GLU:OE2	2.22	0.47
9:S7:14:THR:HG22	9:S7:17:GLU:CD	2.39	0.47
10:S8:172:ARG:HB3	10:S8:175:GLN:HG3	1.97	0.47
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.14	0.47
34:SR:48:THR:HB	34:SR:50:ASP:OD1	2.14	0.47
34:SR:134:TRP:N	34:SR:134:TRP:CD1	2.82	0.47
36:1:821:U:H2'	36:1:822:G:H8	1.77	0.47
36:1:2193:U:O4	36:1:2243:A:N6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2778:G:C2'	36:1:2779:A:H5'	2.45	0.47
36:1:3002:C:O2'	40:L3:180:GLU:OE2	2.19	0.47
36:1:3088:G:OP2	87:1:3754:OHX:N1	2.46	0.47
36:1:3104:U:O2'	36:1:3105:U:H5'	2.14	0.47
39:L2:60:LYS:HD3	39:L2:75:ILE:HG12	1.95	0.47
41:L4:150:LEU:HD13	41:L4:249:ILE:HG12	1.95	0.47
41:L4:264:SER:O	41:L4:266:THR:N	2.46	0.47
42:L5:95:TRP:O	42:L5:98:ALA:HB3	2.15	0.47
42:L5:208:MET:HG3	42:L5:223:PHE:CE2	2.49	0.47
42:L5:226:TYR:HB3	42:L5:231:ILE:O	2.15	0.47
44:L7:39:GLU:O	44:L7:43:ILE:HG13	2.14	0.47
48:M1:27:GLY:O	48:M1:31:THR:HG23	2.14	0.47
50:M4:21:VAL:CG2	50:M4:65:LEU:HD23	2.45	0.47
56:N0:8:GLN:OE1	56:N0:26:ARG:NE	2.28	0.47
59:N3:79:VAL:HG22	59:N3:100:GLY:HA2	1.95	0.47
65:N9:7:HIS:CD2	65:N9:7:HIS:C	2.88	0.47
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.40	0.47
69:O3:49:ILE:HA	69:O3:99:ARG:O	2.14	0.47
80:6:333:A:C6	80:6:334:G:C6	3.03	0.47
80:6:403:G:H8	80:6:403:G:O5'	1.96	0.47
80:6:470:A:H5''	80:6:470:A:C8	2.49	0.47
80:6:1553:G:N2	80:6:1555:A:H3'	2.28	0.47
2:s0:109:ASN:H	4:s2:64:LYS:HZ3	1.61	0.47
2:s0:202:TYR:O	2:s0:203:PHE:CD2	2.67	0.47
3:s1:113:MET:HE3	3:s1:209:ASN:HB3	1.96	0.47
5:s3:99:VAL:HG13	5:s3:173:ARG:NH2	2.30	0.47
8:s6:68:LEU:O	8:s6:69:LEU:HB2	2.14	0.47
10:s8:8:ARG:NH2	10:s8:22:ARG:HE	2.12	0.47
11:s9:121:SER:HB3	11:s9:124:HIS:HB2	1.97	0.47
15:c3:93:LYS:HA	15:c3:150:VAL:HG21	1.95	0.47
36:5:175:C:H2'	36:5:176:G:C8	2.47	0.47
36:5:181:U:O3'	73:o7:75:LYS:HD3	2.15	0.47
36:5:660:A:C2	36:5:1435:A:C2	3.02	0.47
36:5:1270:A:H2'	36:5:1271:A:C8	2.49	0.47
36:5:1611:G:C5	36:5:1612:A:N7	2.83	0.47
36:5:1725:C:H2'	36:5:1726:C:C6	2.49	0.47
36:5:1769:G:C6	36:5:1770:G:N7	2.83	0.47
36:5:1901:A:O3'	36:5:2918:G:H5'	2.14	0.47
36:5:2653:C:OP1	78:q2:89:LYS:HB2	2.14	0.47
36:5:2778:G:O2'	36:5:2779:A:H5'	2.14	0.47
36:5:3273:A:O2'	36:5:3274:A:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3275:U:C6	69:o3:60:ARG:HD2	2.49	0.47
36:5:3280:U:O2'	36:5:3281:U:H5''	2.14	0.47
38:8:10:A:H2'	38:8:11:C:C6	2.49	0.47
40:l3:59:ASP:HA	40:l3:70:ARG:O	2.15	0.47
41:l4:150:LEU:HD21	41:l4:172:VAL:HG13	1.96	0.47
41:l4:285:ASP:O	41:l4:289:ILE:HG13	2.13	0.47
42:l5:61:ILE:HG23	42:l5:79:TYR:HE1	1.78	0.47
46:l9:95:ALA:HA	76:q0:78:ILE:HG22	1.96	0.47
47:m0:82:ARG:HG2	47:m0:82:ARG:O	2.14	0.47
49:m3:180:ARG:NE	49:m3:184:GLU:OE1	2.42	0.47
72:o6:98:ARG:HB3	72:o6:99:ARG:H	1.60	0.47
1:2:1078:C:H2'	1:2:1079:U:C6	2.49	0.47
1:2:1117:U:N3	1:2:1118:G:N7	2.62	0.47
1:2:1478:G:H5'	1:2:1479:A:OP2	2.14	0.47
1:2:1642:G:O3'	77:Q1:9:ARG:NH2	2.47	0.47
5:S3:161:GLY:O	5:S3:164:VAL:HB	2.15	0.47
6:S4:247:SER:OG	6:S4:250:GLU:HG3	2.15	0.47
19:C7:84:TYR:CD1	19:C7:85:VAL:N	2.76	0.47
34:SR:132:LYS:HD3	34:SR:140:CYS:SG	2.55	0.47
36:1:52:A:N3	36:1:811:U:O2'	2.46	0.47
36:1:568:G:H2'	36:1:569:A:O4'	2.15	0.47
36:1:705:A:C6	36:1:715:A:N7	2.82	0.47
36:1:718:G:H8	36:1:718:G:OP2	1.98	0.47
36:1:980:A:H8	36:1:980:A:OP2	1.98	0.47
36:1:1113:G:O2'	36:1:1369:A:N3	2.40	0.47
36:1:1733:G:H3'	87:1:3805:OHX:N5	2.30	0.47
36:1:1811:G:H2'	36:1:1812:G:O4'	2.15	0.47
36:1:2128:C:H2'	36:1:2129:U:O4'	2.14	0.47
36:1:2208:A:H2	87:1:3583:OHX:N6	2.12	0.47
36:1:2229:A:OP1	87:1:3786:OHX:N3	2.48	0.47
36:1:3269:U:O2	36:1:3269:U:H5'	2.14	0.47
87:1:3433:OHX:N1	87:1:3772:OHX:N5	2.63	0.47
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.14	0.47
41:L4:31:ARG:NH1	41:L4:34:ILE:HD11	2.30	0.47
42:L5:188:GLU:O	42:L5:188:GLU:HG3	2.15	0.47
43:L6:90:LYS:HE3	43:L6:90:LYS:HB2	1.69	0.47
43:L6:148:GLU:HA	43:L6:151:LYS:HG3	1.95	0.47
44:L7:26:VAL:HG13	44:L7:27:ALA:N	2.30	0.47
49:M3:54:LEU:HD22	49:M3:55:ARG:N	2.30	0.47
49:M3:148:ALA:O	49:M3:150:PRO:HD3	2.14	0.47
53:M7:32:THR:O	53:M7:33:ALA:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:25:TYR:HA	54:M8:28:LEU:HD12	1.96	0.47
59:N3:120:LYS:H	59:N3:137:VAL:CG2	2.27	0.47
70:O4:74:ARG:HG2	70:O4:75:ALA:O	2.15	0.47
71:O5:68:GLN:C	71:O5:70:TYR:H	2.23	0.47
80:6:403:G:O5'	80:6:403:G:C8	2.68	0.47
80:6:518:A:O2'	80:6:519:C:H5''	2.14	0.47
80:6:543:C:O2	80:6:543:C:O4'	2.33	0.47
80:6:687:G:OP1	24:d2:118:ARG:NH1	2.47	0.47
80:6:690:G:H2'	80:6:690:G:N3	2.29	0.47
80:6:836:U:H2'	80:6:837:G:C8	2.48	0.47
80:6:959:U:O2	15:c3:61:THR:HB	2.15	0.47
80:6:1250:U:O2'	33:e1:135:HIS:HB3	2.15	0.47
2:s0:105:GLY:O	2:s0:109:ASN:HB3	2.14	0.47
5:s3:172:THR:HA	5:s3:184:ILE:O	2.15	0.47
8:s6:121:LEU:HD12	8:s6:121:LEU:HA	1.76	0.47
9:s7:96:ARG:NH2	9:s7:128:ASP:OD2	2.36	0.47
28:d6:60:PRO:O	28:d6:61:GLU:HB3	2.15	0.47
34:sR:24:ALA:O	34:sR:33:LEU:HD12	2.15	0.47
36:5:92:G:H5'	36:5:93:C:C5'	2.45	0.47
36:5:665:A:N6	36:5:666:A:N6	2.63	0.47
36:5:678:G:C5	36:5:679:U:C4	3.02	0.47
36:5:801:A:H4'	36:5:802:C:O5'	2.14	0.47
36:5:1155:C:H2'	36:5:1156:C:C6	2.49	0.47
36:5:1194:G:O2'	36:5:1319:G:O2'	2.31	0.47
36:5:1566:A:H2'	36:5:1567:U:H5'	1.96	0.47
36:5:1688:U:H2'	36:5:1689:U:C6	2.49	0.47
36:5:2842:U:C4	36:5:2843:U:C5	3.02	0.47
36:5:3170:A:C6	36:5:3171:U:C4	3.02	0.47
36:5:3170:A:N6	36:5:3171:U:O4	2.48	0.47
39:12:66:PRO:HB2	39:12:67:TYR:CE2	2.49	0.47
40:13:114:VAL:HG13	40:13:163:HIS:CG	2.49	0.47
48:m1:7:ASN:OD1	48:m1:7:ASN:N	2.47	0.47
50:m4:128:ARG:HD3	50:m4:132:LYS:HD2	1.97	0.47
61:n5:62:VAL:HG11	61:n5:94:GLN:O	2.14	0.47
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.96	0.47
69:o3:48:ARG:HH11	69:o3:70:LYS:HB3	1.79	0.47
69:o3:59:VAL:C	69:o3:61:GLY:N	2.73	0.47
1:2:271:A:H61	8:S6:185:GLN:NE2	2.10	0.47
1:2:552:G:C6	1:2:553:G:C6	3.02	0.47
1:2:701:U:H3	1:2:737:A:N6	2.00	0.47
1:2:978:A:O2'	1:2:1787:C:O2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1011:G:OP2	87:2:1970:OHX:N6	2.48	0.47
1:2:1031:U:H4'	1:2:1032:G:OP2	2.14	0.47
1:2:1600:A:H4'	1:2:1601:G:OP1	2.15	0.47
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.96	0.47
2:S0:167:LYS:HE3	2:S0:168:HIS:NE2	2.30	0.47
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	1.97	0.47
21:C9:66:TYR:HD1	21:C9:67:MET:CE	2.26	0.47
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.79	0.47
32:E0:33:ARG:HB3	32:E0:33:ARG:NH1	2.29	0.47
34:SR:136:ILE:H	34:SR:136:ILE:HD13	1.79	0.47
35:SM:88:ARG:HG2	35:SM:91:THR:HG21	1.97	0.47
36:1:391:A:C5	36:1:392:G:C8	3.03	0.47
36:1:396:A:C6	36:1:399:A:C6	3.03	0.47
36:1:587:U:H2'	36:1:588:G:H5'	1.95	0.47
36:1:827:A:H2'	36:1:828:A:H8	1.79	0.47
36:1:1017:C:O2'	36:1:1018:G:P	2.73	0.47
36:1:1366:A:H2'	36:1:1366:A:N3	2.29	0.47
36:1:1554:U:C2	36:1:1555:U:C4	3.02	0.47
36:1:1725:C:H2'	36:1:1726:C:H6	1.80	0.47
36:1:1807:G:C5'	63:N7:135:ARG:HH22	2.24	0.47
36:1:1832:C:H2'	36:1:1833:G:C8	2.49	0.47
36:1:1941:C:C5	55:M9:74:ARG:HD3	2.49	0.47
36:1:2343:C:H2'	36:1:2344:U:C6	2.48	0.47
36:1:2376:G:C6	36:1:2377:G:O6	2.68	0.47
36:1:2385:G:O6	87:1:3749:OHX:N6	2.48	0.47
36:1:2442:G:N2	36:1:2443:A:N7	2.62	0.47
36:1:2747:A:H5'	42:L5:175:HIS:HA	1.96	0.47
36:1:2885:C:C2'	36:1:2886:U:H5'	2.44	0.47
36:1:3067:C:OP2	55:M9:62:ARG:NH1	2.47	0.47
36:1:3207:U:H5	56:N0:159:SER:HA	1.80	0.47
87:1:3645:OHX:N1	54:M8:146:SER:OG	2.48	0.47
87:1:3740:OHX:N2	39:L2:124:GLY:O	2.48	0.47
38:4:10:A:C6	38:4:11:C:N4	2.83	0.47
39:L2:234:LYS:HB3	39:L2:238:ILE:HG12	1.96	0.47
40:L3:379:PHE:C	40:L3:379:PHE:CD1	2.92	0.47
41:L4:38:VAL:HG13	41:L4:113:VAL:HG11	1.97	0.47
42:L5:115:LEU:HD22	42:L5:115:LEU:H	1.78	0.47
44:L7:92:ILE:HD12	44:L7:92:ILE:HA	1.60	0.47
44:L7:173:LEU:HD21	44:L7:198:ALA:HA	1.97	0.47
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.28	0.47
49:M3:190:LYS:HE2	49:M3:190:LYS:HB2	1.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.29	0.47
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.49	0.47
60:N4:63:ILE:O	60:N4:65:GLU:N	2.47	0.47
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.15	0.47
67:O1:72:ARG:HH22	67:O1:107:VAL:HG23	1.80	0.47
67:O1:75:ILE:HG23	67:O1:93:VAL:HG22	1.95	0.47
71:O5:28:LEU:HD13	71:O5:32:LYS:HE2	1.97	0.47
72:O6:9:ILE:HA	72:O6:13:LYS:HD3	1.96	0.47
73:O7:37:CYS:C	73:O7:45:ARG:HB3	2.40	0.47
78:Q2:83:LEU:HD22	78:Q2:84:THR:N	2.29	0.47
80:6:127:G:O6	8:s6:199:GLN:NE2	2.43	0.47
80:6:199:G:HO2'	80:6:200:A:H8	1.63	0.47
80:6:536:C:N4	80:6:537:G:C6	2.82	0.47
80:6:822:U:C2'	80:6:823:G:H5''	2.44	0.47
80:6:979:A:H2'	80:6:980:G:O4'	2.15	0.47
80:6:1098:U:OP2	4:s2:168:ARG:CZ	2.63	0.47
80:6:1214:U:OP1	80:6:1246:C:H1'	2.15	0.47
80:6:1380:U:O2'	80:6:1516:A:N1	2.45	0.47
80:6:1535:U:O2'	80:6:1536:G:O5'	2.32	0.47
80:6:1546:G:P	20:c8:127:HIS:HE2	2.38	0.47
80:6:1619:C:O2'	80:6:1620:C:H5'	2.14	0.47
80:6:1757:G:C4	80:6:1758:U:C5	3.03	0.47
2:s0:122:ILE:HG12	2:s0:144:ILE:HG13	1.96	0.47
3:s1:194:ASN:ND2	3:s1:211:HIS:HA	2.29	0.47
4:s2:147:ASN:OD1	4:s2:147:ASN:N	2.47	0.47
4:s2:242:ILE:HD12	4:s2:242:ILE:HA	1.81	0.47
5:s3:72:LEU:HD22	81:c0:65:TYR:HD1	1.79	0.47
5:s3:110:LEU:C	5:s3:112:GLY:H	2.22	0.47
6:s4:235:TYR:N	6:s4:235:TYR:HD2	2.12	0.47
8:s6:84:TYR:OH	8:s6:91:GLU:OE1	2.28	0.47
11:s9:133:HIS:C	11:s9:134:ILE:HG13	2.40	0.47
20:c8:35:ILE:HB	20:c8:38:VAL:HG22	1.96	0.47
21:c9:77:ASN:OD1	21:c9:101:ASN:ND2	2.48	0.47
32:e0:56:MET:HB2	32:e0:56:MET:HE3	1.42	0.47
33:e1:126:CYS:CB	33:e1:130:VAL:HG21	2.44	0.47
82:sM:52:PRO:C	82:sM:54:PRO:HD3	2.40	0.47
36:5:115:A:H2'	36:5:265:A:N3	2.30	0.47
36:5:173:G:N1	36:5:246:U:C2	2.82	0.47
36:5:345:G:H2'	38:8:25:G:O2'	2.13	0.47
36:5:378:A:N7	36:5:391:A:H2	2.12	0.47
36:5:380:U:H2'	36:5:381:U:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:393:U:OP2	87:5:3453:OHX:N1	2.47	0.47
36:5:408:A:N6	38:8:15:G:H1'	2.27	0.47
36:5:546:C:O2	36:5:546:C:H2'	2.14	0.47
36:5:759:U:O4	36:5:760:G:C6	2.68	0.47
36:5:1302:A:OP1	87:5:3593:OHX:N3	2.47	0.47
36:5:1521:G:N2	36:5:1835:A:H1'	2.30	0.47
36:5:1658:G:H2'	36:5:1659:U:C6	2.49	0.47
36:5:1675:G:H2'	36:5:1676:A:C8	2.50	0.47
36:5:2249:G:C8	36:5:2249:G:H3'	2.49	0.47
36:5:2271:A:C2'	36:5:2272:G:H5'	2.44	0.47
36:5:2626:A:C4	36:5:2644:C:H5'	2.50	0.47
36:5:2904:U:H2'	36:5:2905:U:C6	2.49	0.47
36:5:3010:U:OP2	87:5:3665:OHX:N4	2.48	0.47
36:5:3101:G:C4	36:5:3134:A:C2	3.03	0.47
36:5:3153:U:H1'	36:5:3154:C:C6	2.50	0.47
36:5:3378:C:H2'	36:5:3379:C:C6	2.49	0.47
38:8:23:U:O5'	38:8:23:U:H6	1.98	0.47
39:12:47:GLN:HE21	39:12:60:LYS:HD2	1.79	0.47
40:13:332:ARG:O	40:13:333:LYS:HB2	2.14	0.47
40:13:345:ASN:OD1	40:13:346:THR:N	2.48	0.47
41:14:144:LYS:O	87:14:401:OHX:N4	2.48	0.47
41:14:315:LYS:HB2	41:14:323:VAL:HG21	1.95	0.47
42:15:226:TYR:CE1	42:15:236:LEU:HD11	2.40	0.47
43:16:56:LYS:HG2	43:16:57:HIS:N	2.30	0.47
46:19:92:TYR:N	46:19:92:TYR:HD2	2.12	0.47
46:19:176:LEU:HB3	76:q0:86:ALA:CB	2.44	0.47
52:m6:54:TYR:HD2	52:m6:58:LEU:HD22	1.79	0.47
55:m9:163:ARG:O	55:m9:167:ARG:HG2	2.15	0.47
57:n1:42:ILE:HG12	57:n1:91:LEU:CD1	2.45	0.47
57:n1:48:ILE:HG13	57:n1:94:GLU:HG2	1.97	0.47
58:n2:22:PRO:HB2	58:n2:28:PHE:HB2	1.95	0.47
61:n5:73:MET:HE1	61:n5:141:TYR:CE1	2.50	0.47
63:n7:46:ILE:HD12	63:n7:47:GLU:C	2.40	0.47
68:o2:32:TRP:CZ2	68:o2:53:PRO:HD2	2.50	0.47
70:o4:66:SER:HB3	70:o4:69:HIS:ND1	2.30	0.47
1:2:420:A:OP1	8:S6:96:SER:OG	2.22	0.47
1:2:792:U:H2'	1:2:793:A:O4'	2.15	0.47
1:2:793:A:H5''	1:2:794:U:C5	2.50	0.47
1:2:939:A:H2'	1:2:940:A:O4'	2.15	0.47
1:2:1278:G:C5	1:2:1279:C:C4	3.02	0.47
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:168:HIS:HB3	2:S0:203:PHE:CZ	2.50	0.47
5:S3:11:LEU:HD12	22:D0:86:ILE:HG12	1.97	0.47
5:S3:22:ASN:OD1	5:S3:34:TYR:OH	2.25	0.47
7:S5:166:ARG:HD2	30:D8:46:GLY:HA2	1.96	0.47
8:S6:79:LYS:HG2	8:S6:80:ASN:N	2.29	0.47
15:C3:27:LYS:HE2	15:C3:27:LYS:H	1.78	0.47
17:C5:34:VAL:HG21	17:C5:45:PHE:CB	2.44	0.47
24:D2:90:THR:HB	24:D2:94:LEU:HD12	1.97	0.47
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.48	0.47
36:1:566:G:N7	87:1:3541:OHX:N4	2.63	0.47
36:1:790:U:H2'	36:1:791:A:O4'	2.15	0.47
36:1:1148:G:O2'	36:1:1171:G:O2'	2.17	0.47
36:1:1170:A:H8	36:1:1170:A:O5'	1.98	0.47
36:1:1231:A:H5''	36:1:1232:C:H5'	1.96	0.47
36:1:1231:A:N1	36:1:1279:C:N4	2.62	0.47
36:1:1433:A:H2	68:O2:27:ARG:NH1	2.13	0.47
36:1:2163:C:H4'	39:L2:7:ASN:O	2.15	0.47
36:1:2544:U:H2'	36:1:2545:C:C6	2.49	0.47
36:1:2640:A:H2'	36:1:2641:U:C6	2.50	0.47
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.35	0.47
38:4:10:A:C5	38:4:11:C:C4	3.03	0.47
41:L4:291:ASN:O	41:L4:292:SER:C	2.57	0.47
44:L7:88:ARG:CZ	44:L7:103:LEU:HD13	2.45	0.47
45:L8:130:TYR:CE1	45:L8:202:GLU:HB3	2.49	0.47
50:M4:40:ASP:OD1	50:M4:42:LYS:N	2.43	0.47
51:M5:180:PHE:O	51:M5:181:ASN:C	2.58	0.47
54:M8:145:ASN:ND2	54:M8:150:VAL:HG11	2.26	0.47
58:N2:33:TYR:HE2	58:N2:63:VAL:HG21	1.80	0.47
64:N8:48:TYR:O	64:N8:49:HIS:ND1	2.48	0.47
71:O5:28:LEU:O	71:O5:32:LYS:HG3	2.15	0.47
80:6:219:A:C2	80:6:220:A:C4	3.03	0.47
80:6:485:A:N6	80:6:486:G:N3	2.63	0.47
80:6:486:G:OP1	80:6:486:G:H4'	2.14	0.47
80:6:606:A:C8	80:6:608:U:C6	3.03	0.47
80:6:757:A:O3'	6:s4:22:LYS:NZ	2.47	0.47
80:6:881:A:OP2	87:6:1963:OHX:N5	2.48	0.47
80:6:963:A:OP2	15:c3:70:LYS:NZ	2.45	0.47
80:6:1008:G:C6	80:6:1009:U:C4	3.02	0.47
80:6:1091:A:H4'	80:6:1092:A:O5'	2.15	0.47
80:6:1445:G:C6	33:e1:91:ILE:HB	2.49	0.47
80:6:1553:G:O6	17:c5:43:ARG:NH1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:168:HIS:ND1	2:s0:203:PHE:CZ	2.83	0.47
2:s0:200:ASP:HA	2:s0:203:PHE:CD1	2.50	0.47
4:s2:108:ASN:HA	4:s2:141:ARG:NH1	2.30	0.47
8:s6:72:ARG:HA	8:s6:97:VAL:O	2.15	0.47
13:c1:132:SER:O	13:c1:132:SER:OG	2.30	0.47
24:d2:55:ASP:C	24:d2:57:ARG:H	2.18	0.47
24:d2:55:ASP:HB2	24:d2:57:ARG:HD2	1.97	0.47
36:5:120:G:C6	45:l8:128:LYS:HB2	2.50	0.47
36:5:123:A:H5'	36:5:124:U:OP2	2.15	0.47
36:5:150:A:H2'	36:5:151:A:H5'	1.97	0.47
36:5:773:G:O6	87:5:3439:OHX:N3	2.47	0.47
36:5:775:A:N7	87:5:3588:OHX:N3	2.62	0.47
36:5:1388:U:O4	41:l4:186:LYS:NZ	2.45	0.47
36:5:1795:U:OP1	39:l2:191:LEU:HD11	2.14	0.47
36:5:2134:G:H2'	36:5:2135:U:H5'	1.97	0.47
36:5:2255:A:OP1	87:5:3449:OHX:N6	2.48	0.47
36:5:2732:G:H2'	36:5:2733:A:O4'	2.14	0.47
36:5:2997:G:O4'	36:5:3396:U:H5'	2.14	0.47
36:5:3227:A:C2'	36:5:3228:C:H5'	2.45	0.47
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.15	0.47
39:l2:30:ARG:HA	39:l2:74:GLU:OE2	2.15	0.47
43:l6:47:PHE:O	43:l6:50:LYS:HB2	2.15	0.47
47:m0:201:SER:OG	47:m0:203:LYS:N	2.46	0.47
83:m2:62:UNK:N	83:m2:73:UNK:O	2.48	0.47
52:m6:26:GLN:HB3	52:m6:31:GLN:HB3	1.97	0.47
52:m6:73:PHE:CD1	52:m6:78:ARG:HG2	2.50	0.47
53:m7:32:THR:O	53:m7:35:ALA:HB3	2.14	0.47
55:m9:144:GLN:HA	55:m9:144:GLN:NE2	2.30	0.47
58:n2:36:TYR:CD1	58:n2:40:HIS:CE1	3.03	0.47
59:n3:67:PRO:C	59:n3:69:LEU:N	2.72	0.47
69:o3:8:TYR:CG	69:o3:99:ARG:HB3	2.49	0.47
70:o4:46:ASP:CG	70:o4:80:ARG:HD2	2.40	0.47
78:q2:32:LYS:O	78:q2:33:ALA:HB3	2.15	0.47
1:2:135:A:H4'	1:2:136:C:OP1	2.14	0.47
1:2:646:C:H2'	1:2:647:G:C8	2.50	0.47
1:2:756:A:H5''	1:2:757:A:OP2	2.14	0.47
1:2:856:A:N6	9:S7:96:ARG:HB3	2.30	0.47
1:2:872:G:O6	87:2:2010:OHX:N3	2.48	0.47
1:2:1515:A:OP2	5:S3:7:LYS:HB2	2.14	0.47
1:2:1630:U:O2'	1:2:1764:C:O2'	2.32	0.47
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:69:SER:OG	10:S8:185:GLU:OE2	2.29	0.47
10:S8:172:ARG:O	10:S8:175:GLN:HB2	2.14	0.47
15:C3:93:LYS:O	15:C3:96:VAL:HB	2.14	0.47
25:D3:59:ILE:CD1	32:E0:4:VAL:HG13	2.45	0.47
25:D3:92:CYS:O	25:D3:95:PHE:N	2.45	0.47
26:D4:84:LYS:HG3	26:D4:85:PHE:N	2.30	0.47
26:D4:103:ALA:HB1	26:D4:107:GLN:NE2	2.30	0.47
36:1:411:U:C2	38:4:13:A:C2	3.03	0.47
36:1:806:A:C4	36:1:936:A:C2	3.03	0.47
36:1:1302:A:N7	36:1:2857:C:O2'	2.47	0.47
36:1:1336:U:H2'	36:1:1337:A:C8	2.50	0.47
36:1:1553:U:H4'	36:1:1554:U:H5'	1.97	0.47
36:1:1758:G:H1	36:1:1767:C:H42	1.62	0.47
36:1:1806:A:H2'	36:1:1807:G:O4'	2.15	0.47
36:1:1920:U:O2	36:1:1932:A:H5''	2.14	0.47
36:1:2318:U:O4	87:1:3579:OHX:N2	2.47	0.47
36:1:2338:C:O3'	59:N3:48:ARG:HG2	2.14	0.47
36:1:3016:A:H2'	36:1:3017:A:C8	2.50	0.47
36:1:3056:U:C2	67:O1:25:PHE:CE2	3.03	0.47
36:1:3185:U:C5	52:M6:126:VAL:HG21	2.49	0.47
36:1:3229:G:H1'	50:M4:133:LYS:HG2	1.96	0.47
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.48	0.47
44:L7:116:PHE:CZ	44:L7:144:ILE:HG23	2.50	0.47
47:M0:220:GLN:C	87:M0:304:OHX:N1	2.72	0.47
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.50	0.47
52:M6:56:ASP:O	52:M6:59:ARG:HG2	2.15	0.47
56:N0:5:LYS:HB2	56:N0:7:TYR:CE2	2.50	0.47
61:N5:56:ARG:O	61:N5:61:LYS:HD2	2.15	0.47
80:6:249:U:H3'	80:6:250:C:H5'	1.96	0.47
80:6:448:C:H4'	6:s4:28:ALA:O	2.14	0.47
80:6:625:C:H2'	80:6:626:U:C6	2.50	0.47
80:6:742:U:OP2	87:6:2051:OHX:N5	2.48	0.47
80:6:1042:G:N1	80:6:1043:A:C5	2.83	0.47
80:6:1334:U:H2'	80:6:1335:U:C6	2.50	0.47
80:6:1673:G:H8	80:6:1673:G:O5'	1.98	0.47
2:s0:50:VAL:HG23	19:c7:109:LEU:HD21	1.97	0.47
4:s2:242:ILE:HG22	4:s2:243:TYR:CE2	2.49	0.47
5:s3:21:LEU:HD23	5:s3:21:LEU:HA	1.82	0.47
5:s3:70:THR:CG2	5:s3:86:LEU:HB2	2.45	0.47
8:s6:67:VAL:CG2	8:s6:99:GLY:HA2	2.42	0.47
11:s9:133:HIS:HD2	11:s9:162:SER:CB	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:c0:58:GLN:O	81:c0:65:TYR:N	2.47	0.47
16:c4:113:GLY:CA	28:d6:59:TYR:HE2	2.28	0.47
19:c7:5:ARG:O	19:c7:10:LYS:HE2	2.15	0.47
24:d2:87:GLU:O	24:d2:90:THR:OG1	2.33	0.47
36:5:49:A:OP1	49:m3:16:LYS:NZ	2.31	0.47
36:5:267:G:H4'	51:m5:50:ARG:NH1	2.30	0.47
36:5:303:G:N2	36:5:2778:G:C5	2.82	0.47
36:5:438:A:C8	36:5:439:C:C5	3.03	0.47
36:5:950:G:H5'	36:5:971:G:OP1	2.15	0.47
36:5:1404:G:N2	36:5:1408:G:C4	2.83	0.47
36:5:1517:G:C5	36:5:1518:U:C5	3.02	0.47
36:5:2222:A:O5'	36:5:2222:A:C8	2.68	0.47
36:5:2660:G:OP1	36:5:2750:U:O2'	2.32	0.47
36:5:2892:A:C6	36:5:3130:A:N6	2.82	0.47
36:5:2971:A:H4'	36:5:2972:G:OP2	2.15	0.47
36:5:3213:A:H8	36:5:3213:A:O5'	1.98	0.47
37:7:33:U:C2	42:l5:207:TYR:CD2	3.03	0.47
40:l3:226:PHE:CE2	40:l3:267:ALA:HB1	2.42	0.47
40:l3:252:ILE:HD12	40:l3:252:ILE:HA	1.53	0.47
40:l3:312:VAL:C	40:l3:314:TYR:H	2.23	0.47
45:l8:150:LEU:HA	45:l8:176:PRO:O	2.15	0.47
54:m8:63:SER:O	54:m8:67:ILE:HG13	2.15	0.47
54:m8:185:LYS:HD3	54:m8:186:VAL:HG23	1.96	0.47
56:n0:7:TYR:HB3	56:n0:61:ILE:HD11	1.96	0.47
62:n6:69:LYS:O	62:n6:83:ASP:N	2.38	0.47
79:q3:36:ARG:HB2	79:q3:48:LYS:HD2	1.96	0.47
1:2:1:U:O4	11:S9:54:ARG:HD3	2.15	0.47
1:2:49:C:H2'	1:2:50:C:O4'	2.15	0.47
1:2:159:U:H5'	26:D4:117:LYS:HB3	1.96	0.47
1:2:912:U:H4'	1:2:913:G:O5'	2.15	0.47
1:2:984:G:H2'	1:2:985:G:O4'	2.15	0.47
2:S0:120:LEU:HD11	2:S0:144:ILE:HG13	1.96	0.47
5:S3:150:MET:HE1	35:SM:110:TRP:O	2.15	0.47
5:S3:191:ASP:HB3	5:S3:194:LYS:HG3	1.96	0.47
7:S5:53:VAL:C	7:S5:55:ASP:H	2.23	0.47
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.50	0.47
14:C2:29:LYS:HA	14:C2:32:LEU:HD12	1.97	0.47
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.15	0.47
25:D3:48:HIS:HD2	25:D3:105:ALA:HB2	1.80	0.47
25:D3:59:ILE:O	25:D3:69:ARG:N	2.37	0.47
28:D6:79:ILE:HA	28:D6:84:VAL:CG1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:58:G:H4'	51:M5:155:VAL:HG12	1.97	0.47
36:1:692:A:H2'	36:1:693:A:H8	1.80	0.47
36:1:1681:U:O2'	36:1:3069:G:O6	2.24	0.47
36:1:2218:G:H2'	36:1:2219:A:H8	1.79	0.47
36:1:2746:A:C5	42:L5:148:ILE:HD12	2.50	0.47
36:1:3006:A:H2'	36:1:3007:U:O4'	2.14	0.47
36:1:3174:A:O2'	36:1:3175:U:H5'	2.15	0.47
87:1:3496:OHX:N3	44:L7:217:PRO:O	2.48	0.47
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.14	0.47
40:L3:41:VAL:CB	40:L3:185:GLY:HA3	2.45	0.47
46:L9:31:ARG:NE	46:L9:84:LYS:O	2.49	0.47
47:M0:16:PRO:HG3	47:M0:128:ARG:NH1	2.30	0.47
47:M0:38:LYS:HB2	47:M0:83:ASP:HB3	1.97	0.47
49:M3:48:PRO:HG3	49:M3:126:PHE:HE2	1.78	0.47
56:N0:77:VAL:N	56:N0:92:LYS:O	2.44	0.47
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.15	0.47
61:N5:100:LYS:HZ2	61:N5:107:VAL:H	1.63	0.47
66:O0:25:LEU:HD11	66:O0:83:LYS:HD3	1.97	0.47
69:O3:17:GLN:O	69:O3:24:ASN:N	2.48	0.47
70:O4:20:ILE:HD13	70:O4:20:ILE:HA	1.77	0.47
80:6:187:G:H8	80:6:187:G:O5'	1.98	0.47
80:6:215:A:C2	80:6:216:U:C2	3.03	0.47
80:6:1106:U:O2'	80:6:1107:G:H5'	2.15	0.47
80:6:1371:A:H5'	80:6:1372:U:OP2	2.14	0.47
4:s2:162:CYS:O	4:s2:163:GLY:O	2.32	0.47
6:s4:57:ASN:HB2	6:s4:60:GLU:HG3	1.96	0.47
9:s7:9:LEU:HD21	9:s7:17:GLU:HB3	1.96	0.47
25:d3:43:PHE:C	25:d3:45:GLY:H	2.23	0.47
28:d6:24:VAL:O	28:d6:24:VAL:HG13	2.15	0.47
34:sR:32:LEU:HA	34:sR:45:TRP:O	2.15	0.47
36:5:620:U:H6	36:5:620:U:P	2.38	0.47
36:5:637:C:C2	36:5:638:C:C5	3.02	0.47
36:5:1373:A:H2'	36:5:1374:G:C8	2.50	0.47
36:5:1612:A:C2	36:5:1613:A:C8	3.03	0.47
36:5:1677:G:OP2	58:n2:103:TYR:OH	2.25	0.47
36:5:2612:U:H2'	36:5:2613:U:O4'	2.15	0.47
36:5:3107:U:H2'	36:5:3108:G:H8	1.79	0.47
38:8:145:U:H2'	38:8:146:U:C6	2.49	0.47
40:l3:45:SER:O	40:l3:181:ILE:HD13	2.14	0.47
40:l3:56:ILE:HA	40:l3:56:ILE:HD12	1.57	0.47
42:l5:132:THR:O	42:l5:132:THR:OG1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:m2:122:UNK:HA	84:p0:43:LYS:HD3	1.96	0.47
50:m4:36:VAL:HG11	50:m4:55:ARG:NH2	2.30	0.47
54:m8:138:LEU:HD13	54:m8:140:LEU:HD21	1.96	0.47
57:n1:75:ILE:HD13	57:n1:88:ARG:HD2	1.96	0.47
58:n2:43:VAL:C	58:n2:45:GLY:N	2.73	0.47
65:n9:8:THR:OG1	65:n9:9:ALA:N	2.47	0.47
78:q2:68:VAL:O	78:q2:85:LEU:HB2	2.15	0.47
1:2:735:C:H2'	1:2:735:C:OP2	2.15	0.46
1:2:1308:G:C6	1:2:1309:C:C4	3.04	0.46
1:2:1349:G:O2'	1:2:1379:C:N3	2.43	0.46
1:2:1366:U:O2'	21:C9:7:ARG:HD2	2.15	0.46
4:S2:115:ILE:HD13	4:S2:208:GLU:HG2	1.97	0.46
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	1.98	0.46
9:S7:16:LEU:HD13	9:S7:58:LEU:HD21	1.97	0.46
9:S7:142:TYR:HE1	24:D2:39:GLN:HE21	1.62	0.46
12:C0:33:GLU:O	12:C0:34:GLU:HB2	2.14	0.46
15:C3:118:ILE:O	15:C3:122:ILE:HG13	2.14	0.46
17:C5:44:ARG:O	17:C5:44:ARG:HD2	2.14	0.46
34:SR:98:GLU:HG3	34:SR:99:THR:O	2.15	0.46
36:1:62:A:H2'	36:1:63:A:C8	2.50	0.46
36:1:70:A:N1	36:1:313:A:O2'	2.38	0.46
36:1:198:A:C6	36:1:219:A:C6	3.03	0.46
36:1:742:G:O6	87:1:3512:OHX:N1	2.49	0.46
36:1:1162:U:H4'	68:O2:57:TYR:CD1	2.50	0.46
36:1:1792:C:H2'	36:1:1795:U:H5	1.79	0.46
36:1:3015:G:N2	36:1:3040:A:H1'	2.30	0.46
36:1:3048:A:O2'	87:1:3754:OHX:N3	2.48	0.46
36:1:3110:C:C2	36:1:3111:U:C6	3.03	0.46
37:3:113:C:H2'	37:3:114:U:O4'	2.15	0.46
40:L3:103:THR:HG21	40:L3:147:GLU:OE2	2.14	0.46
41:L4:201:GLN:HG3	41:L4:202:ARG:O	2.15	0.46
44:L7:89:ILE:HG22	44:L7:220:PHE:CE1	2.50	0.46
51:M5:115:VAL:HG22	51:M5:134:LEU:HD23	1.97	0.46
56:N0:66:GLU:OE2	56:N0:73:LYS:HE3	2.14	0.46
64:N8:63:LYS:HE3	64:N8:68:PHE:CE2	2.49	0.46
80:6:488:G:H2'	80:6:498:G:O6	2.15	0.46
80:6:540:G:O2'	80:6:542:A:H5'	2.14	0.46
80:6:638:U:H3'	80:6:639:U:H5'	1.97	0.46
80:6:710:U:H1'	80:6:729:G:H22	1.80	0.46
80:6:751:G:H2'	80:6:752:A:C8	2.50	0.46
80:6:1703:C:H2'	80:6:1704:U:H6	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:140:ASN:HD22	4:s2:62:PRO:HD3	1.79	0.46
4:s2:128:GLY:O	4:s2:131:ILE:N	2.48	0.46
5:s3:34:TYR:OH	5:s3:37:VAL:HG22	2.15	0.46
7:s5:37:GLN:CD	18:c6:53:LEU:HD22	2.40	0.46
8:s6:10:ASN:OD1	8:s6:10:ASN:N	2.48	0.46
11:s9:153:GLU:O	11:s9:156:ILE:HG13	2.15	0.46
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.47	0.46
17:c5:126:VAL:CG1	82:sM:71:ASN:HD21	2.29	0.46
19:c7:108:ASP:N	19:c7:108:ASP:OD1	2.48	0.46
24:d2:55:ASP:C	24:d2:57:ARG:N	2.73	0.46
24:d2:70:ASN:HB2	24:d2:130:TYR:O	2.16	0.46
25:d3:44:GLY:N	25:d3:78:LYS:HE3	2.29	0.46
26:d4:34:ASN:O	26:d4:35:VAL:HG13	2.14	0.46
28:d6:23:CYS:C	28:d6:25:ASN:H	2.23	0.46
33:e1:80:ARG:HB2	33:e1:80:ARG:CZ	2.45	0.46
82:sM:54:PRO:O	82:sM:59:ALA:HB2	2.14	0.46
36:5:342:A:C4	36:5:368:G:N7	2.83	0.46
36:5:661:G:C2	64:n8:17:ALA:HB2	2.50	0.46
36:5:936:A:OP1	64:n8:28:HIS:HD2	1.99	0.46
36:5:1048:A:H2'	47:m0:22:TYR:CZ	2.51	0.46
36:5:1573:G:C6	36:5:1574:C:H1'	2.51	0.46
36:5:2209:U:O4	87:5:3463:OHX:N6	2.48	0.46
36:5:3059:G:N2	36:5:3085:G:H1'	2.31	0.46
36:5:3218:A:H5''	36:5:3219:G:C8	2.50	0.46
41:l4:74:ILE:HG23	41:l4:75:PRO:O	2.16	0.46
43:l6:36:PRO:HB3	43:l6:55:LEU:O	2.15	0.46
45:l8:239:GLY:O	45:l8:240:ASN:C	2.58	0.46
46:l9:34:LEU:HD21	46:l9:149:ASN:HB3	1.98	0.46
46:l9:49:ASN:C	46:l9:51:GLN:N	2.73	0.46
46:l9:161:LEU:O	46:l9:164:ILE:HG22	2.15	0.46
52:m6:42:ASN:HA	52:m6:136:THR:O	2.16	0.46
55:m9:39:ASN:OD1	55:m9:42:ARG:NH1	2.48	0.46
57:n1:87:LYS:HE3	57:n1:87:LYS:HB3	1.37	0.46
59:n3:101:VAL:HG11	59:n3:114:ILE:HG12	1.96	0.46
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	1.96	0.46
61:n5:139:ILE:HG22	71:o5:33:VAL:HG11	1.97	0.46
64:n8:60:TYR:CD1	64:n8:63:LYS:HB2	2.50	0.46
78:q2:63:LYS:HG2	78:q2:87:ARG:NH1	2.30	0.46
78:q2:70:LEU:N	78:q2:83:LEU:O	2.48	0.46
79:q3:41:PHE:CD2	79:q3:41:PHE:N	2.82	0.46
84:p0:81:LYS:HD3	84:p0:82:GLY:N	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:229:U:H3	1:2:236:A:H61	1.63	0.46
1:2:395:U:H2'	1:2:396:G:O4'	2.15	0.46
1:2:398:G:P	10:S8:47:ARG:HH12	2.37	0.46
1:2:616:G:C2	1:2:622:A:N7	2.84	0.46
1:2:1002:G:N1	1:2:1761:U:OP1	2.28	0.46
2:S0:77:SER:HB2	2:S0:124:THR:HG21	1.96	0.46
5:S3:214:GLU:O	5:S3:216:PRO:HD3	2.16	0.46
8:S6:148:SER:OG	8:S6:150:GLU:HB2	2.15	0.46
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.72	0.46
10:S8:81:VAL:HG21	10:S8:95:THR:O	2.15	0.46
11:S9:88:GLU:O	11:S9:91:LYS:HB2	2.16	0.46
11:S9:114:TYR:HA	11:S9:119:ALA:HB3	1.97	0.46
20:C8:91:ASP:O	20:C8:92:ILE:HB	2.15	0.46
20:C8:145:ARG:HB2	35:SM:68:ARG:HH22	1.81	0.46
21:C9:14:PHE:CD2	21:C9:14:PHE:C	2.93	0.46
33:E1:136:LYS:O	33:E1:138:ARG:N	2.48	0.46
34:SR:228:LYS:O	34:SR:229:LYS:HG3	2.15	0.46
35:SM:104:LYS:O	35:SM:108:GLN:HG2	2.16	0.46
36:1:681:U:C6	41:L4:115:HIS:HB2	2.50	0.46
36:1:784:A:C8	54:M8:69:ARG:CZ	2.99	0.46
36:1:873:C:H2'	36:1:875:G:O4'	2.15	0.46
36:1:1128:U:OP1	47:M0:4:ARG:NH2	2.43	0.46
36:1:1401:A:H2'	36:1:1402:C:C6	2.51	0.46
36:1:1808:G:OP2	63:N7:133:LYS:NZ	2.47	0.46
36:1:1897:G:H2'	36:1:1898:G:O4'	2.15	0.46
36:1:1941:C:OP2	55:M9:74:ARG:HG2	2.15	0.46
36:1:2630:C:H1'	36:1:2758:A:N3	2.30	0.46
36:1:3119:U:H5''	36:1:3120:C:OP2	2.15	0.46
36:1:3121:U:H1'	36:1:3122:A:H5''	1.97	0.46
36:1:3290:G:N7	87:1:3682:OHX:N4	2.63	0.46
37:3:11:A:C8	42:L5:18:THR:HG23	2.51	0.46
39:L2:132:ASN:HD22	39:L2:151:PRO:HB3	1.80	0.46
43:L6:108:LYS:C	43:L6:109:GLU:HG2	2.40	0.46
43:L6:144:ALA:O	43:L6:147:ALA:HB3	2.16	0.46
45:L8:160:ILE:O	45:L8:164:VAL:HG13	2.16	0.46
46:L9:67:ALA:O	46:L9:71:VAL:HG23	2.15	0.46
49:M3:50:PRO:HB2	49:M3:140:SER:O	2.16	0.46
50:M4:65:LEU:HD11	56:N0:152:LEU:HD12	1.96	0.46
51:M5:143:ARG:HE	71:O5:92:LEU:HD23	1.80	0.46
65:N9:58:LYS:HD2	65:N9:58:LYS:HA	1.58	0.46
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:25:C:OP2	80:6:25:C:H4'	2.15	0.46
80:6:57:G:OP2	26:d4:116:LYS:HE2	2.15	0.46
80:6:137:U:H6	80:6:137:U:H2'	1.52	0.46
80:6:516:G:C5	80:6:517:U:C5	3.04	0.46
4:s2:78:ASP:HB3	4:s2:104:VAL:HG12	1.96	0.46
5:s3:154:ASP:OD1	5:s3:155:GLY:N	2.48	0.46
5:s3:176:LEU:HA	5:s3:181:VAL:HG22	1.98	0.46
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.51	0.46
14:c2:42:ALA:HB1	14:c2:47:GLU:HB3	1.97	0.46
22:d0:20:ILE:HG22	22:d0:21:LYS:H	1.81	0.46
22:d0:37:VAL:HG21	22:d0:112:VAL:HG11	1.95	0.46
22:d0:63:LEU:HB3	31:d9:34:TYR:CE2	2.51	0.46
23:d1:55:LEU:HD13	23:d1:65:SER:OG	2.16	0.46
24:d2:8:ALA:HB2	24:d2:74:VAL:HG11	1.97	0.46
26:d4:121:THR:HB	26:d4:124:ARG:H	1.80	0.46
26:d4:125:LEU:HA	26:d4:128:LYS:HG3	1.97	0.46
28:d6:10:ARG:CB	28:d6:34:LYS:HA	2.40	0.46
36:5:72:C:H5''	49:m3:63:VAL:HG13	1.97	0.46
36:5:316:U:H4'	36:5:317:A:H5'	1.97	0.46
36:5:316:U:O2	72:o6:30:LYS:HG2	2.16	0.46
36:5:992:A:O2'	36:5:993:G:H5'	2.15	0.46
36:5:1190:A:C5	36:5:1193:A:H1'	2.51	0.46
36:5:1250:G:H2'	36:5:1251:A:C8	2.51	0.46
36:5:1313:G:H2'	36:5:1314:C:H6	1.80	0.46
36:5:1549:U:H2'	36:5:1550:C:C6	2.50	0.46
36:5:1559:A:H4'	36:5:1560:G:OP2	2.15	0.46
36:5:2533:G:O6	87:5:3543:OHX:N1	2.44	0.46
36:5:2724:U:OP1	57:n1:57:TYR:OH	2.24	0.46
36:5:2948:C:H2'	36:5:2949:U:H6	1.79	0.46
36:5:3220:G:C6	36:5:3221:C:C5	3.03	0.46
40:l3:4:ARG:HG3	40:l3:4:ARG:HH11	1.79	0.46
43:l6:40:LEU:HD12	43:l6:65:ILE:HD11	1.98	0.46
49:m3:57:VAL:HG12	49:m3:108:ILE:HG23	1.95	0.46
49:m3:170:LEU:HD22	72:o6:9:ILE:CG2	2.46	0.46
53:m7:113:TYR:CD1	53:m7:113:TYR:C	2.93	0.46
66:o0:61:MET:SD	66:o0:62:LEU:N	2.88	0.46
70:o4:41:ARG:HE	70:o4:41:ARG:HB3	1.48	0.46
74:o8:5:ILE:HG22	74:o8:54:LEU:HB2	1.96	0.46
1:2:107:C:H1'	1:2:362:G:O2'	2.15	0.46
1:2:161:U:O3'	8:S6:83:CYS:HA	2.16	0.46
1:2:959:U:O2'	15:C3:55:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:990:C:O2'	16:C4:127:ARG:HD3	2.16	0.46
1:2:1260:U:H2'	1:2:1261:G:C8	2.50	0.46
1:2:1366:U:OP1	18:C6:30:LYS:HD2	2.14	0.46
1:2:1540:G:C6	1:2:1541:G:C4	3.04	0.46
2:S0:188:LEU:HB3	2:S0:189:VAL:H	1.56	0.46
3:S1:133:TYR:CD2	3:S1:181:LEU:HD11	2.50	0.46
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.16	0.46
6:S4:163:ASP:O	6:S4:164:LEU:HB2	2.15	0.46
6:S4:187:ARG:O	6:S4:187:ARG:HD3	2.15	0.46
7:S5:100:ASN:O	7:S5:102:ARG:N	2.49	0.46
12:C0:53:GLY:O	12:C0:55:VAL:N	2.48	0.46
18:C6:58:ASP:O	18:C6:60:PHE:N	2.48	0.46
19:C7:5:ARG:CB	19:C7:10:LYS:HE2	2.40	0.46
23:D1:32:VAL:HB	23:D1:60:ARG:HD3	1.98	0.46
25:D3:50:LYS:HD3	25:D3:101:GLU:HG2	1.97	0.46
29:D7:29:ARG:HG3	29:D7:29:ARG:NH1	2.31	0.46
36:1:196:G:N7	87:1:3442:OHX:N6	2.64	0.46
36:1:213:A:C2	62:N6:8:VAL:HG12	2.50	0.46
36:1:303:G:C2	36:1:2778:G:N7	2.83	0.46
36:1:1273:A:H2'	36:1:1274:A:H8	1.80	0.46
36:1:2190:U:C4	36:1:2191:U:C4	3.04	0.46
36:1:3393:U:H2'	36:1:3394:U:H6	1.81	0.46
41:L4:281:ILE:HG22	54:M8:25:TYR:HB3	1.97	0.46
42:L5:284:ALA:HA	42:L5:287:ALA:HB3	1.97	0.46
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.66	0.46
45:L8:40:VAL:HG12	45:L8:41:GLN:O	2.14	0.46
48:M1:53:THR:HG23	48:M1:59:ILE:O	2.15	0.46
49:M3:24:VAL:HG12	51:M5:199:LEU:HB2	1.98	0.46
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.48	0.46
51:M5:19:LEU:HD12	51:M5:19:LEU:HA	1.75	0.46
53:M7:75:GLU:HB3	53:M7:76:PHE:CD1	2.50	0.46
55:M9:4:LEU:HD13	55:M9:32:ILE:HG21	1.97	0.46
55:M9:77:GLY:O	55:M9:81:ARG:HD3	2.16	0.46
66:O0:39:SER:OG	66:O0:65:THR:HG21	2.14	0.46
66:O0:100:ILE:O	66:O0:105:ALA:HB3	2.15	0.46
68:O2:22:SER:HB2	68:O2:30:GLU:HA	1.97	0.46
80:6:142:G:C2	80:6:266:A:C4	3.03	0.46
80:6:422:G:OP1	87:6:1911:OHX:N1	2.49	0.46
80:6:1309:C:H2'	80:6:1310:U:O4'	2.15	0.46
80:6:1515:A:OP2	5:s3:7:LYS:HB2	2.15	0.46
9:s7:28:GLU:HG2	9:s7:35:LYS:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:130:VAL:O	9:s7:132:PRO:HD2	2.16	0.46
14:c2:108:ARG:O	14:c2:110:GLY:N	2.48	0.46
14:c2:129:GLU:OE2	14:c2:130:THR:N	2.30	0.46
16:c4:61:MET:HE3	16:c4:61:MET:HB3	1.63	0.46
17:c5:130:ARG:NH2	82:sM:65:THR:O	2.49	0.46
21:c9:28:LEU:HA	21:c9:111:ILE:HD11	1.98	0.46
26:d4:29:HIS:CD2	26:d4:29:HIS:N	2.83	0.46
30:d8:50:GLU:O	30:d8:51:ASN:HB2	2.15	0.46
31:d9:21:CYS:HB2	31:d9:39:CYS:N	2.28	0.46
36:5:121:A:C4	45:l8:108:ARG:NH1	2.83	0.46
36:5:173:G:H22	36:5:246:U:H1'	1.80	0.46
36:5:273:A:C2	36:5:293:C:C2	3.03	0.46
36:5:380:U:O4	87:5:3731:OHX:N5	2.48	0.46
36:5:655:C:H2'	36:5:656:A:C8	2.50	0.46
36:5:815:G:C6	36:5:906:A:C4	3.03	0.46
36:5:856:G:C6	36:5:857:G:N1	2.83	0.46
36:5:1013:G:H2'	36:5:1014:U:O4'	2.16	0.46
36:5:1283:C:OP1	84:p0:81:LYS:HD3	2.15	0.46
36:5:1807:G:H5''	63:n7:135:ARG:HH11	1.80	0.46
36:5:1940:G:N2	36:5:3362:A:H8	2.09	0.46
36:5:2093:A:H61	55:m9:114:LYS:HD3	1.80	0.46
36:5:3069:G:C6	36:5:3070:A:N7	2.84	0.46
36:5:3167:A:O2'	36:5:3168:A:OP1	2.33	0.46
37:7:22:A:C2	37:7:23:A:C4	3.03	0.46
40:l3:139:GLN:H	40:l3:139:GLN:HG3	1.51	0.46
41:l4:8:VAL:HG11	41:l4:252:GLU:OE1	2.15	0.46
41:l4:205:PRO:HD2	41:l4:225:VAL:HG22	1.96	0.46
44:l7:80:GLN:HB2	57:n1:135:PRO:HB3	1.97	0.46
45:l8:177:TYR:CD1	45:l8:177:TYR:C	2.92	0.46
48:m1:24:GLY:H	48:m1:65:ILE:HG23	1.80	0.46
48:m1:33:ALA:O	48:m1:36:VAL:HB	2.15	0.46
51:m5:114:ARG:HB2	51:m5:151:ILE:HD13	1.97	0.46
54:m8:30:VAL:O	54:m8:34:THR:HG22	2.15	0.46
84:p0:37:GLN:O	84:p0:41:VAL:HG23	2.14	0.46
1:2:516:G:OP2	87:2:1949:OHX:N6	2.49	0.46
1:2:710:U:H2'	1:2:711:U:H5'	1.96	0.46
1:2:762:A:C2	1:2:789:A:C8	3.04	0.46
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.38	0.46
4:S2:140:ARG:HA	23:D1:10:GLU:OE1	2.16	0.46
5:S3:204:ASP:O	5:S3:206:VAL:HG23	2.15	0.46
7:S5:144:GLU:HB2	7:S5:160:VAL:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:75:PRO:HG3	17:C5:93:VAL:HG11	1.98	0.46
20:C8:103:ASN:OD1	20:C8:103:ASN:N	2.46	0.46
27:D5:38:HIS:CE1	27:D5:39:ALA:HB2	2.50	0.46
36:1:132:C:C2'	36:1:133:U:H5''	2.45	0.46
36:1:190:U:N3	36:1:224:C:O4'	2.49	0.46
36:1:822:G:C6	36:1:823:C:C4	3.03	0.46
36:1:1840:U:OP2	87:1:3515:OHX:N1	2.49	0.46
36:1:2193:U:H5'	36:1:2194:G:H5'	1.98	0.46
36:1:2278:C:C2	36:1:2307:G:C2	3.03	0.46
36:1:2601:A:H2'	36:1:2602:G:C8	2.43	0.46
37:3:20:A:C4	37:3:60:G:N2	2.83	0.46
38:4:71:A:H2	38:4:82:U:O2	1.98	0.46
40:L3:122:TRP:CH2	40:L3:127:LYS:HD3	2.50	0.46
40:L3:370:PHE:CD2	40:L3:376:LYS:HG3	2.50	0.46
43:L6:166:LYS:N	43:L6:169:ASP:OD2	2.40	0.46
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.50	0.46
48:M1:37:LEU:HD23	48:M1:37:LEU:HA	1.69	0.46
49:M3:182:ILE:O	49:M3:185:LYS:N	2.47	0.46
64:N8:7:LYS:HA	64:N8:7:LYS:HD3	1.57	0.46
67:O1:48:ASP:HB3	67:O1:90:PHE:HB2	1.96	0.46
79:Q3:27:LYS:HG2	79:Q3:31:ILE:HD12	1.96	0.46
80:6:32:U:H2'	80:6:33:U:O4'	2.15	0.46
80:6:452:A:H3'	80:6:453:U:C5	2.49	0.46
80:6:592:A:H2'	80:6:593:U:O4'	2.15	0.46
80:6:717:C:H42	80:6:720:G:H1	1.62	0.46
80:6:838:G:C6	80:6:839:U:C4	3.03	0.46
80:6:1037:C:O2'	24:d2:16:ASN:ND2	2.43	0.46
80:6:1482:C:OP2	80:6:1521:G:N1	2.49	0.46
5:s3:111:ASN:O	5:s3:113:LEU:HD22	2.15	0.46
5:s3:157:LEU:CD2	5:s3:189:MET:HB3	2.44	0.46
8:s6:56:ASN:HB2	8:s6:108:VAL:HG23	1.96	0.46
11:s9:123:HIS:O	11:s9:127:VAL:HG23	2.15	0.46
19:c7:90:ALA:H	19:c7:95:ARG:CB	2.28	0.46
20:c8:76:PRO:O	20:c8:81:ILE:HB	2.16	0.46
29:d7:54:VAL:O	29:d7:63:LEU:N	2.49	0.46
34:sR:297:ASP:OD2	34:sR:297:ASP:N	2.33	0.46
36:5:30:G:OP1	51:m5:172:ARG:NH1	2.37	0.46
36:5:235:A:OP2	87:5:3768:OHX:N2	2.48	0.46
36:5:345:G:O2'	38:8:25:G:N3	2.47	0.46
36:5:429:U:H5'	69:o3:88:ASN:HB2	1.97	0.46
36:5:908:G:H8	36:5:908:G:O5'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1039:U:H2'	36:5:1040:A:C8	2.51	0.46
36:5:1338:C:H2'	36:5:1339:C:H6	1.80	0.46
36:5:2211:U:C5	36:5:2234:G:O6	2.67	0.46
36:5:2314:U:OP2	36:5:2314:U:H4'	2.14	0.46
36:5:2321:A:H1'	79:q3:16:VAL:HG11	1.98	0.46
36:5:2442:G:H22	36:5:2506:U:H3	1.63	0.46
36:5:2898:G:H5''	36:5:2899:C:H5'	1.98	0.46
40:l3:284:ARG:HG2	40:l3:321:PHE:CE1	2.48	0.46
40:l3:312:VAL:C	40:l3:314:TYR:N	2.74	0.46
41:l4:93:MET:HE2	41:l4:93:MET:N	2.23	0.46
83:m2:54:UNK:HA	83:m2:55:UNK:HA	1.72	0.46
58:n2:20:SER:O	58:n2:24:GLU:HG2	2.15	0.46
61:n5:96:LYS:O	61:n5:100:LYS:HB2	2.15	0.46
1:2:329:G:C2	1:2:330:G:C4	3.03	0.46
1:2:375:U:C4	1:2:376:C:C5	3.04	0.46
1:2:549:G:H1	1:2:589:C:H42	1.63	0.46
1:2:800:U:C2	1:2:801:G:N7	2.84	0.46
1:2:881:A:C6	1:2:882:U:C2	3.04	0.46
1:2:885:G:H2'	1:2:886:U:C6	2.50	0.46
1:2:1231:U:H4'	1:2:1258:U:H6	1.80	0.46
1:2:1273:G:N7	1:2:1431:C:H5'	2.30	0.46
1:2:1291:G:C2	1:2:1325:A:C2	3.03	0.46
1:2:1531:G:N2	21:C9:48:GLN:NE2	2.63	0.46
10:S8:98:LYS:C	10:S8:100:ALA:H	2.24	0.46
13:C1:92:HIS:O	13:C1:100:TYR:HA	2.15	0.46
15:C3:30:SER:HB3	15:C3:67:THR:HG22	1.97	0.46
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.16	0.46
27:D5:41:ILE:HG13	27:D5:42:LEU:HG	1.97	0.46
28:D6:12:LYS:O	28:D6:13:LYS:HG3	2.15	0.46
34:SR:245:PHE:O	34:SR:294:TRP:HD1	1.98	0.46
35:SM:41:SER:O	35:SM:43:ASP:N	2.45	0.46
35:SM:140:ASP:OD1	35:SM:140:ASP:N	2.48	0.46
36:1:798:G:H4'	49:M3:15:ARG:NH2	2.30	0.46
36:1:810:A:H2'	36:1:811:U:C6	2.49	0.46
36:1:1517:G:H2'	36:1:1518:U:H6	1.80	0.46
36:1:1767:C:H2'	36:1:1768:U:C6	2.50	0.46
36:1:2275:A:H2'	36:1:2276:G:O4'	2.14	0.46
36:1:2854:U:P	47:M0:3:ARG:HH22	2.38	0.46
36:1:3017:A:H8	36:1:3017:A:O5'	1.98	0.46
36:1:3275:U:H5'	69:O3:68:TRP:CZ2	2.47	0.46
38:4:58:G:O6	73:O7:63:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:140:ASN:ND2	39:L2:143:GLU:OE2	2.49	0.46
46:L9:52:LEU:HD22	46:L9:53:ILE:H	1.81	0.46
46:L9:189:GLU:OE2	46:L9:189:GLU:HA	2.13	0.46
48:M1:110:ILE:C	48:M1:112:LEU:H	2.24	0.46
63:N7:14:VAL:HG12	63:N7:79:HIS:HA	1.96	0.46
67:O1:16:LEU:HD12	67:O1:16:LEU:HA	1.48	0.46
70:O4:44:CYS:SG	70:O4:46:ASP:HB3	2.56	0.46
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.15	0.46
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.45	0.46
80:6:16:G:H1'	80:6:1138:A:N6	2.29	0.46
80:6:151:G:N2	80:6:164:A:C4	2.84	0.46
80:6:880:C:H2'	80:6:881:A:C8	2.50	0.46
80:6:1129:U:C2'	80:6:1130:G:H5'	2.45	0.46
80:6:1154:G:N2	80:6:1625:C:C2	2.83	0.46
80:6:1508:U:O4	87:6:1909:OHX:N4	2.49	0.46
3:s1:123:ALA:HB2	3:s1:165:ARG:HG2	1.97	0.46
4:s2:84:LYS:O	4:s2:84:LYS:HG3	2.15	0.46
4:s2:162:CYS:SG	4:s2:212:LYS:HE2	2.56	0.46
6:s4:114:ILE:HB	6:s4:118:GLU:OE2	2.15	0.46
6:s4:160:VAL:HG12	6:s4:162:ILE:CD1	2.46	0.46
7:s5:144:GLU:OE1	7:s5:225:ARG:NH1	2.48	0.46
9:s7:66:SER:C	9:s7:68:ALA:N	2.73	0.46
15:c3:76:LYS:HA	15:c3:81:ALA:HB2	1.96	0.46
15:c3:138:ASN:OD1	15:c3:138:ASN:N	2.48	0.46
19:c7:90:ALA:HB3	19:c7:95:ARG:N	2.30	0.46
20:c8:117:LYS:HB3	20:c8:117:LYS:NZ	2.30	0.46
21:c9:25:GLN:O	21:c9:27:LYS:N	2.49	0.46
26:d4:67:GLY:O	26:d4:68:LYS:HB2	2.14	0.46
36:5:317:A:H2'	36:5:318:A:C8	2.51	0.46
36:5:348:A:H1'	36:5:352:A:O2'	2.16	0.46
36:5:821:U:H2'	36:5:822:G:H8	1.81	0.46
36:5:851:C:H2'	36:5:852:U:C6	2.50	0.46
36:5:884:A:N7	36:5:2139:A:C4	2.84	0.46
36:5:1232:C:C5	36:5:1261:G:H2'	2.51	0.46
36:5:1235:U:C4'	36:5:1236:G:H5'	2.43	0.46
36:5:1609:C:H2'	36:5:1610:G:C8	2.51	0.46
36:5:1939:G:OP1	55:m9:77:GLY:HA3	2.16	0.46
36:5:2758:A:C8	36:5:2759:U:C5	3.03	0.46
36:5:2977:G:OP1	87:5:3663:OHX:N4	2.48	0.46
36:5:3158:G:N7	36:5:3159:C:C5	2.84	0.46
36:5:3270:U:O2'	43:l6:46:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:24:G:H2'	38:8:25:G:O4'	2.16	0.46
41:14:156:LEU:C	41:14:158:SER:N	2.67	0.46
49:m3:9:ILE:HD11	64:n8:45:MET:HE1	1.96	0.46
49:m3:165:SER:HB3	49:m3:168:ARG:HB3	1.96	0.46
54:m8:79:LYS:HG2	54:m8:136:ASN:OD1	2.16	0.46
56:n0:136:LYS:HE3	56:n0:136:LYS:HB3	1.58	0.46
63:n7:58:GLY:O	63:n7:62:VAL:HG23	2.15	0.46
64:n8:100:PRO:HG2	64:n8:123:VAL:HG13	1.98	0.46
68:o2:78:ASN:HA	68:o2:108:ILE:HD11	1.98	0.46
78:q2:105:GLN:HB2	78:q2:106:PHE:CE1	2.51	0.46
1:2:14:C:H2'	1:2:15:U:C6	2.51	0.46
1:2:694:U:N3	9:S7:98:ILE:HD12	2.30	0.46
1:2:811:A:C2	1:2:858:G:H1'	2.50	0.46
1:2:1525:A:O2'	1:2:1589:C:O2'	2.26	0.46
1:2:1570:A:H2'	1:2:1571:C:H6	1.80	0.46
1:2:1675:C:H1'	10:S8:32:GLN:NE2	2.31	0.46
2:S0:147:THR:OG1	2:S0:159:ALA:HB1	2.16	0.46
3:S1:189:ILE:HB	3:S1:190:PRO:HD3	1.98	0.46
6:S4:71:LYS:CG	6:S4:91:THR:HB	2.46	0.46
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	1.98	0.46
11:S9:115:LYS:HA	11:S9:115:LYS:HD2	1.58	0.46
13:C1:2:SER:HB2	13:C1:82:ARG:H	1.81	0.46
18:C6:99:GLU:OE2	18:C6:102:LYS:NZ	2.42	0.46
20:C8:22:VAL:HG13	20:C8:31:ALA:HB1	1.96	0.46
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.96	0.46
28:D6:87:ARG:NE	28:D6:91:ASP:O	2.48	0.46
36:1:317:A:O2'	36:1:318:A:H5'	2.14	0.46
36:1:671:U:OP2	54:M8:57:ILE:HD12	2.15	0.46
36:1:1072:G:C4	36:1:1087:G:C2	3.03	0.46
36:1:1097:G:H8	57:N1:128:LEU:HD13	1.80	0.46
36:1:1171:G:O6	87:1:3496:OHX:N2	2.48	0.46
36:1:1499:C:H2'	36:1:1500:G:H8	1.79	0.46
36:1:2127:U:O5'	36:1:2127:U:H6	1.98	0.46
36:1:2244:A:O2'	36:1:2245:C:H5'	2.16	0.46
36:1:2278:C:H2'	36:1:2279:A:H5''	1.97	0.46
36:1:2729:U:H2'	36:1:2730:G:O4'	2.16	0.46
36:1:3049:A:N3	40:L3:75:ALA:HB2	2.30	0.46
87:1:3574:OHX:N2	68:O2:14:THR:O	2.49	0.46
38:4:104:A:H3'	38:4:105:A:C5'	2.45	0.46
38:4:150:G:C8	87:4:206:OHX:N4	2.81	0.46
39:L2:98:VAL:HA	39:L2:166:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:200:THR:CG2	41:L4:201:GLN:N	2.78	0.46
45:L8:26:LEU:H	45:L8:26:LEU:HD12	1.80	0.46
45:L8:75:ILE:HD12	51:M5:21:PHE:CD2	2.51	0.46
47:M0:74:LYS:HB2	47:M0:74:LYS:HE3	1.67	0.46
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.98	0.46
54:M8:42:ALA:HA	54:M8:43:PRO:HD2	1.72	0.46
55:M9:59:SER:C	55:M9:61:SER:H	2.23	0.46
57:N1:19:PHE:CE1	57:N1:20:ARG:HG3	2.51	0.46
57:N1:74:VAL:HG21	57:N1:96:ILE:HD11	1.98	0.46
59:N3:89:ASP:OD1	59:N3:91:VAL:HG13	2.15	0.46
80:6:72:A:H2'	80:6:73:U:C1'	2.45	0.46
80:6:95:G:C6	80:6:96:G:C4	3.04	0.46
80:6:99:C:H1'	80:6:100:A:N7	2.31	0.46
80:6:138:A:N6	80:6:266:A:N6	2.61	0.46
80:6:449:C:OP1	6:s4:29:PRO:O	2.34	0.46
80:6:512:A:O2'	11:s9:133:HIS:CE1	2.68	0.46
80:6:1138:A:C4	80:6:1139:A:C8	3.04	0.46
80:6:1397:U:C4	80:6:1399:C:H1'	2.50	0.46
80:6:1460:A:N7	17:c5:128:HIS:HB3	2.30	0.46
5:s3:138:VAL:HA	5:s3:183:GLY:O	2.16	0.46
6:s4:136:VAL:HG12	6:s4:137:PRO:O	2.16	0.46
7:s5:61:TYR:CD2	7:s5:164:PRO:HB2	2.50	0.46
8:s6:24:ILE:O	8:s6:26:VAL:N	2.49	0.46
11:s9:172:VAL:HG13	11:s9:175:ARG:HH21	1.81	0.46
18:c6:99:GLU:HG2	34:sR:57:PRO:HB2	1.98	0.46
19:c7:109:LEU:O	19:c7:113:LEU:HB2	2.15	0.46
20:c8:11:PHE:HE2	20:c8:13:HIS:CD2	2.33	0.46
30:d8:10:ALA:HA	30:d8:33:LEU:HB2	1.96	0.46
34:sR:216:LYS:HA	34:sR:239:GLU:HG3	1.96	0.46
36:5:155:G:H1'	72:o6:26:ILE:HD13	1.97	0.46
36:5:341:G:N7	41:l4:195:ARG:NH2	2.49	0.46
36:5:977:C:OP1	54:m8:141:ARG:NH2	2.48	0.46
36:5:1072:G:H2'	36:5:1073:U:H6	1.81	0.46
36:5:1610:G:C6	36:5:1611:G:C6	3.04	0.46
36:5:3063:C:H2'	36:5:3064:U:C6	2.47	0.46
36:5:3163:A:O2'	36:5:3164:C:H5'	2.16	0.46
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.97	0.46
41:l4:26:PHE:HA	41:l4:127:ALA:HA	1.98	0.46
42:l5:155:THR:HA	42:l5:179:ARG:HD3	1.97	0.46
45:l8:147:LYS:O	45:l8:201:THR:HB	2.16	0.46
45:l8:186:LEU:HB3	45:l8:195:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:1:MET:HE3	56:n0:139:TYR:HA	1.97	0.46
46:l9:171:ASP:CG	46:l9:173:ARG:HH11	2.24	0.46
49:m3:101:ARG:HH22	49:m3:112:ASN:ND2	2.13	0.46
52:m6:14:HIS:CD2	52:m6:124:LEU:HD13	2.50	0.46
56:n0:9:VAL:O	56:n0:26:ARG:HA	2.16	0.46
73:o7:4:GLY:O	73:o7:5:THR:C	2.59	0.46
1:2:271:A:N6	8:S6:185:GLN:HE22	2.10	0.46
1:2:894:U:H2'	1:2:895:G:C8	2.51	0.46
1:2:1468:U:C2	1:2:1469:A:C8	3.03	0.46
1:2:1488:G:H5'	1:2:1489:U:OP1	2.15	0.46
1:2:1792:G:O5'	28:D6:3:LYS:HA	2.16	0.46
10:S8:159:GLN:OE1	10:S8:165:LEU:HA	2.16	0.46
13:C1:21:ASN:OD1	13:C1:21:ASN:N	2.37	0.46
19:C7:25:THR:O	19:C7:27:ASP:N	2.44	0.46
19:C7:27:ASP:OD2	19:C7:30:THR:HG23	2.15	0.46
22:D0:65:ILE:HD11	31:D9:36:LEU:HD21	1.98	0.46
26:D4:26:ASP:OD1	26:D4:68:LYS:HE3	2.16	0.46
28:D6:70:LYS:O	28:D6:71:LEU:HD22	2.16	0.46
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	1.97	0.46
36:1:440:A:H8	36:1:440:A:OP2	1.97	0.46
36:1:656:A:O2'	36:1:657:A:H5'	2.16	0.46
36:1:817:A:H8	73:O7:15:SER:HG	1.63	0.46
36:1:860:G:P	39:L2:181:LYS:HZ1	2.39	0.46
36:1:912:G:H5''	36:1:913:A:P	2.55	0.46
36:1:999:G:O2'	36:1:1000:C:H5'	2.16	0.46
36:1:1194:G:OP1	87:1:3775:OHX:N1	2.48	0.46
36:1:1344:G:H1	36:1:1360:C:N4	2.13	0.46
36:1:1593:A:C4'	70:O4:60:ARG:HD3	2.45	0.46
36:1:2115:G:H22	36:1:2120:A:H1'	1.81	0.46
36:1:2167:A:H2'	36:1:2168:A:C8	2.51	0.46
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.50	0.46
36:1:2597:U:C2	36:1:2598:G:C8	3.03	0.46
36:1:3174:A:H2'	36:1:3175:U:C5'	2.46	0.46
87:1:3407:OHX:N1	87:1:3806:OHX:N3	2.63	0.46
38:4:133:G:C4	38:4:134:G:C8	3.04	0.46
39:L2:58:LEU:HD13	39:L2:75:ILE:CG2	2.46	0.46
39:L2:86:GLN:HG2	39:L2:87:PHE:N	2.31	0.46
41:L4:315:LYS:HB2	41:L4:323:VAL:HG21	1.96	0.46
42:L5:83:LEU:O	42:L5:84:PRO:C	2.58	0.46
44:L7:150:LYS:HG2	44:L7:151:ARG:HG2	1.97	0.46
46:L9:36:LYS:HB3	46:L9:78:MET:SD	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:43:VAL:HG11	46:L9:68:LEU:HD23	1.98	0.46
47:M0:36:LEU:HD13	47:M0:87:LEU:HD12	1.98	0.46
49:M3:138:VAL:HB	71:O5:118:ILE:HB	1.96	0.46
50:M4:39:ILE:HB	50:M4:43:LYS:HB3	1.98	0.46
54:M8:19:PRO:HD3	54:M8:53:PHE:CD1	2.51	0.46
56:N0:81:TYR:CE1	56:N0:90:MET:HE3	2.51	0.46
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.29	0.46
63:N7:4:PHE:HE2	66:O0:34:LEU:O	1.98	0.46
68:O2:82:LEU:O	68:O2:82:LEU:HD22	2.16	0.46
72:O6:53:TYR:CD1	72:O6:76:ARG:HG2	2.51	0.46
76:Q0:79:GLU:HG2	76:Q0:82:LEU:HG	1.98	0.46
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.16	0.46
80:6:109:G:O2'	80:6:796:A:N1	2.38	0.46
80:6:485:A:C6	80:6:486:G:H1'	2.51	0.46
80:6:652:G:O5'	80:6:653:C:H5	1.98	0.46
80:6:867:G:N7	87:6:1912:OHX:N1	2.64	0.46
80:6:1490:C:O2	80:6:1491:U:H1'	2.15	0.46
80:6:1591:C:H2'	80:6:1592:A:C8	2.51	0.46
11:s9:63:ASP:O	11:s9:69:ARG:HD3	2.14	0.46
17:c5:33:PHE:O	17:c5:36:LEU:HD22	2.15	0.46
17:c5:119:PHE:CE1	20:c8:121:ALA:HB2	2.51	0.46
21:c9:14:PHE:C	21:c9:14:PHE:CD2	2.94	0.46
29:d7:41:LEU:H	29:d7:41:LEU:HD23	1.80	0.46
34:sR:45:TRP:CZ3	34:sR:57:PRO:HD3	2.50	0.46
34:sR:93:ASP:HB3	34:sR:96:THR:HG22	1.97	0.46
34:sR:107:LYS:HB2	34:sR:128:ASP:CB	2.45	0.46
36:5:106:A:C2	36:5:325:A:N3	2.84	0.46
36:5:249:U:OP2	36:5:249:U:H2'	2.16	0.46
36:5:984:G:OP1	87:n9:101:OHX:N5	2.49	0.46
36:5:1528:G:N2	36:5:1833:G:C4	2.83	0.46
36:5:1802:C:O2'	70:o4:60:ARG:HA	2.16	0.46
36:5:2376:G:C6	36:5:2377:G:O6	2.69	0.46
36:5:2515:A:H5''	51:m5:28:TRP:CD1	2.51	0.46
36:5:3060:C:H1'	36:5:3332:U:H1'	1.98	0.46
36:5:3351:U:H3'	36:5:3351:U:O2	2.15	0.46
43:l6:105:TYR:CD1	43:l6:105:TYR:C	2.93	0.46
54:m8:153:PHE:O	54:m8:161:LYS:HG2	2.16	0.46
55:m9:97:ARG:O	55:m9:101:VAL:HG23	2.16	0.46
59:n3:49:LEU:HD23	59:n3:49:LEU:HA	1.62	0.46
62:n6:43:TYR:HB3	62:n6:119:ILE:HG21	1.98	0.46
65:n9:58:LYS:O	65:n9:59:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:o6:25:LYS:HB2	72:o6:28:TYR:HD2	1.81	0.46
1:2:767:U:C5	11:S9:143:ILE:HD12	2.51	0.46
1:2:1777:G:H2'	1:2:1778:G:C8	2.51	0.46
2:S0:90:ALA:HB1	2:S0:95:ALA:O	2.16	0.46
3:S1:34:ALA:HB2	3:S1:43:VAL:CG2	2.45	0.46
5:S3:138:VAL:O	5:S3:149:ALA:HA	2.15	0.46
5:S3:194:LYS:O	5:S3:196:ARG:N	2.49	0.46
11:S9:107:ARG:NH1	11:S9:112:GLN:OE1	2.49	0.46
12:C0:80:LEU:O	12:C0:82:LEU:N	2.40	0.46
13:C1:112:SER:C	13:C1:114:ALA:H	2.23	0.46
17:C5:80:MET:C	17:C5:82:ASN:H	2.23	0.46
17:C5:86:VAL:HG22	17:C5:88:GLU:H	1.81	0.46
19:C7:24:LEU:O	19:C7:25:THR:HG23	2.16	0.46
20:C8:83:ALA:O	20:C8:86:LEU:HB2	2.16	0.46
27:D5:39:ALA:HB1	27:D5:70:LYS:C	2.40	0.46
33:E1:144:CYS:SG	33:E1:147:VAL:HB	2.56	0.46
34:SR:242:SER:HB3	34:SR:292:LEU:HD23	1.98	0.46
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.49	0.46
36:1:878:G:H2'	36:1:2980:U:O2'	2.16	0.46
36:1:1038:C:H4'	42:L5:5:LYS:HZ2	1.81	0.46
36:1:1560:G:H2'	36:1:1561:G:H5'	1.98	0.46
36:1:2659:G:H2'	36:1:2660:G:H8	1.80	0.46
41:L4:169:LEU:HD21	41:L4:219:LEU:HD11	1.97	0.46
42:L5:286:VAL:HG13	47:M0:206:LEU:CD2	2.45	0.46
43:L6:135:VAL:O	43:L6:139:LYS:HG3	2.16	0.46
44:L7:47:ARG:O	44:L7:50:ALA:N	2.35	0.46
44:L7:66:LYS:HG3	44:L7:76:TYR:HD2	1.81	0.46
45:L8:101:THR:HG22	45:L8:104:GLU:CD	2.41	0.46
51:M5:8:GLU:HB2	51:M5:50:ARG:HH22	1.81	0.46
52:M6:3:VAL:HG13	52:M6:4:GLU:N	2.31	0.46
62:N6:53:ASP:HB2	62:N6:110:HIS:HD2	1.81	0.46
70:O4:21:LYS:HE3	70:O4:21:LYS:HB3	1.46	0.46
71:O5:45:LYS:O	71:O5:48:ARG:HG2	2.16	0.46
71:O5:88:LEU:HD23	71:O5:88:LEU:HA	1.60	0.46
80:6:79:C:P	8:s6:159:ARG:HH22	2.34	0.46
80:6:105:A:H2'	80:6:106:U:O4'	2.16	0.46
80:6:221:A:C2'	80:6:222:A:H5'	2.46	0.46
80:6:585:A:H2'	80:6:586:G:C8	2.51	0.46
80:6:1082:C:H2'	80:6:1083:G:H5'	1.98	0.46
80:6:1641:C:H6	80:6:1641:C:O5'	1.99	0.46
80:6:1793:G:HO2'	28:d6:5:ARG:NH2	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:11:GLY:HA3	18:c6:83:GLN:HB3	1.96	0.46
21:c9:112:GLY:O	21:c9:125:SER:OG	2.31	0.46
22:d0:53:LYS:HB2	22:d0:92:ASP:HB2	1.96	0.46
25:d3:72:VAL:O	25:d3:84:THR:HA	2.16	0.46
25:d3:130:VAL:HG21	25:d3:135:LEU:HD21	1.98	0.46
28:d6:51:ARG:NH2	30:d8:60:GLU:OE1	2.49	0.46
34:sR:26:SER:OG	34:sR:75:ALA:O	2.34	0.46
36:5:78:U:H2'	36:5:79:U:H6	1.81	0.46
36:5:901:G:O2'	36:5:902:G:H5'	2.16	0.46
36:5:982:C:H42	36:5:1101:G:H1	1.63	0.46
36:5:1064:A:H5''	36:5:1066:G:O4'	2.16	0.46
36:5:1162:U:H4'	68:o2:57:TYR:CE1	2.50	0.46
36:5:1355:A:H1'	36:5:1356:U:OP2	2.16	0.46
36:5:1658:G:O6	87:5:3720:OHX:N3	2.48	0.46
36:5:1856:C:H2'	36:5:1857:C:C6	2.50	0.46
36:5:2298:U:O4	36:5:2923:U:H5	1.99	0.46
36:5:2561:A:O2'	36:5:2562:A:H5''	2.16	0.46
40:l3:41:VAL:HG22	40:l3:194:TRP:CD1	2.51	0.46
40:l3:53:MET:SD	40:l3:77:THR:HG22	2.56	0.46
40:l3:107:ALA:HB1	40:l3:200:GLU:HG3	1.98	0.46
41:l4:355:PHE:CD2	41:l4:355:PHE:C	2.93	0.46
50:m4:108:ARG:HD3	52:m6:197:LEU:HA	1.98	0.46
51:m5:150:TRP:O	51:m5:153:ASP:HB2	2.15	0.46
54:m8:58:ASN:C	54:m8:60:PRO:HD3	2.41	0.46
54:m8:100:THR:HG22	54:m8:120:GLU:HB2	1.98	0.46
56:n0:26:ARG:HB3	57:n1:150:THR:HG22	1.96	0.46
61:n5:136:ALA:HB1	61:n5:141:TYR:CE1	2.50	0.46
84:p0:41:VAL:HG12	84:p0:45:LEU:HD12	1.98	0.46
1:2:97:C:H2'	1:2:98:U:H6	1.81	0.46
1:2:485:A:H2'	1:2:486:G:O4'	2.15	0.46
1:2:498:G:O2'	1:2:499:U:O5'	2.25	0.46
1:2:1085:G:H2'	1:2:1087:A:OP2	2.16	0.46
1:2:1567:U:C5	1:2:1568:C:C4	3.04	0.46
2:S0:75:ALA:HB1	2:S0:86:VAL:HG12	1.98	0.46
9:S7:117:THR:HG22	9:S7:120:ALA:HB2	1.98	0.46
10:S8:42:ARG:HB3	10:S8:58:LEU:O	2.16	0.46
11:S9:90:LYS:HB2	11:S9:95:TYR:HD1	1.76	0.46
15:C3:24:ALA:C	15:C3:26:PHE:H	2.24	0.46
17:C5:119:PHE:HE1	20:C8:119:ILE:HG23	1.80	0.46
21:C9:28:LEU:CD1	21:C9:29:GLU:H	2.29	0.46
23:D1:16:LYS:HG2	23:D1:21:ASN:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:133:VAL:HB	34:SR:142:ALA:HB3	1.98	0.46
35:SM:39:PRO:HB2	35:SM:40:PRO:CD	2.45	0.46
36:1:224:C:O2	62:N6:103:LYS:NZ	2.49	0.46
36:1:242:C:O2'	36:1:243:G:H8	1.99	0.46
36:1:283:G:O6	36:1:304:G:H1'	2.16	0.46
36:1:535:G:C6	36:1:555:U:N3	2.84	0.46
36:1:627:U:O4	87:1:3537:OHX:N5	2.49	0.46
36:1:816:A:N1	36:1:919:U:H1'	2.31	0.46
36:1:1095:U:O2	57:N1:129:LYS:HB2	2.16	0.46
36:1:1120:A:H2'	36:1:1121:U:C6	2.50	0.46
36:1:2199:G:H2'	36:1:2200:U:C6	2.51	0.46
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.15	0.46
36:1:3242:G:N7	40:L3:150:ARG:HD2	2.31	0.46
87:1:3740:OHX:N5	39:L2:122:ASP:O	2.49	0.46
39:L2:246:LEU:HD23	39:L2:246:LEU:HA	1.67	0.46
40:L3:141:GLY:O	40:L3:143:GLY:N	2.49	0.46
41:L4:169:LEU:HD11	41:L4:219:LEU:HD21	1.98	0.46
42:L5:30:TYR:HA	42:L5:33:ARG:HB3	1.98	0.46
43:L6:158:TYR:OH	50:M4:114:ASP:OD2	2.25	0.46
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.97	0.46
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.45	0.46
61:N5:105:VAL:HG12	61:N5:106:ASP:H	1.81	0.46
63:N7:36:HIS:O	63:N7:38:PHE:N	2.45	0.46
72:O6:21:THR:O	72:O6:21:THR:OG1	2.27	0.46
75:O9:30:ARG:HB2	75:O9:30:ARG:HE	1.32	0.46
79:Q3:45:LYS:HB2	79:Q3:45:LYS:HE3	1.48	0.46
80:6:867:G:C4	80:6:868:G:C8	3.04	0.46
80:6:995:A:C2	80:6:1010:C:C2	3.04	0.46
80:6:1315:U:OP2	80:6:1328:G:N1	2.37	0.46
80:6:1402:G:P	19:c7:10:LYS:HZ1	2.38	0.46
80:6:1561:U:H4'	80:6:1599:C:H4'	1.97	0.46
3:s1:70:LEU:HA	3:s1:73:LEU:HB2	1.98	0.46
4:s2:54:GLU:H	4:s2:54:GLU:HG2	1.35	0.46
7:s5:56:ALA:O	7:s5:57:SER:OG	2.23	0.46
10:s8:84:HIS:NE2	10:s8:90:LEU:HD13	2.30	0.46
81:c0:46:LEU:O	81:c0:50:THR:HG23	2.16	0.46
18:c6:31:VAL:HG22	18:c6:67:VAL:HB	1.97	0.46
22:d0:43:LYS:O	22:d0:47:GLN:N	2.34	0.46
33:e1:96:LYS:O	33:e1:97:LYS:HB3	2.15	0.46
36:5:120:G:O6	45:l8:128:LYS:HB2	2.16	0.46
36:5:229:G:C6	36:5:230:U:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:503:C:H2'	36:5:504:A:H8	1.80	0.46
36:5:506:U:H2'	36:5:507:U:O4'	2.16	0.46
36:5:830:A:O2'	36:5:1866:C:H2'	2.16	0.46
36:5:985:U:H2'	36:5:986:U:H6	1.81	0.46
36:5:1251:A:H2'	36:5:1252:A:O4'	2.16	0.46
36:5:1307:G:C2	36:5:1308:A:C2	3.04	0.46
36:5:1602:A:O3'	55:m9:9:ARG:NH2	2.49	0.46
36:5:2340:U:OP1	40:l3:236:LYS:HD3	2.16	0.46
36:5:2397:A:C2	36:5:2873:U:H5'	2.51	0.46
36:5:2440:G:H2'	36:5:2441:A:C8	2.50	0.46
36:5:2636:A:H5''	36:5:2637:A:H5'	1.98	0.46
36:5:2683:U:O2	36:5:2683:U:H2'	2.16	0.46
36:5:2700:G:H5''	57:n1:17:ARG:HG3	1.98	0.46
36:5:2738:A:H4'	65:n9:37:PRO:HB2	1.97	0.46
36:5:3042:U:OP2	36:5:3092:C:N4	2.48	0.46
36:5:3069:G:C2	36:5:3070:A:C8	3.04	0.46
38:8:27:U:H6	38:8:27:U:O5'	1.99	0.46
38:8:142:C:C4	38:8:143:U:O4	2.69	0.46
40:l3:44:THR:HG23	40:l3:184:ASN:HB2	1.98	0.46
40:l3:61:ASP:OD1	40:l3:68:HIS:HE1	1.97	0.46
42:l5:195:LEU:O	42:l5:199:ILE:HG13	2.15	0.46
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.40	0.46
50:m4:13:ARG:HB2	50:m4:65:LEU:HD12	1.96	0.46
52:m6:157:GLU:OE2	52:m6:160:ARG:NH1	2.48	0.46
56:n0:83:SER:O	56:n0:85:SER:N	2.49	0.46
60:n4:1:MET:O	60:n4:1:MET:HG3	2.16	0.46
68:o2:41:VAL:HG12	68:o2:46:PHE:HD2	1.79	0.46
69:o3:6:ARG:HG2	69:o3:8:TYR:H	1.81	0.46
69:o3:103:TYR:HA	69:o3:105:SER:N	2.31	0.46
1:2:119:A:H1'	1:2:397:A:C4	2.51	0.46
1:2:138:A:N6	1:2:266:A:H61	2.13	0.46
1:2:730:G:H2'	1:2:730:G:N3	2.31	0.46
1:2:964:U:H4'	1:2:965:U:O4'	2.16	0.46
1:2:1266:U:H2'	1:2:1267:G:H8	1.79	0.46
1:2:1788:G:OP2	16:C4:127:ARG:NH2	2.49	0.46
2:S0:102:PHE:O	2:S0:103:THR:HG22	2.15	0.46
5:S3:101:GLN:O	5:S3:104:SER:HB3	2.16	0.46
6:S4:90:ILE:HD11	6:S4:101:LEU:HD11	1.98	0.46
6:S4:238:LEU:H	6:S4:238:LEU:HG	1.56	0.46
7:S5:120:ILE:O	7:S5:124:LEU:HD12	2.16	0.46
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:70:GLU:HG3	10:S8:112:TRP:CH2	2.51	0.46
13:C1:75:VAL:HG22	13:C1:84:ILE:HD12	1.98	0.46
14:C2:66:VAL:HG11	14:C2:71:ILE:HG21	1.98	0.46
15:C3:27:LYS:HD2	15:C3:28:LEU:H	1.81	0.46
17:C5:80:MET:HE2	17:C5:83:MET:HG3	1.98	0.46
21:C9:15:ILE:HD13	21:C9:60:SER:HA	1.97	0.46
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.50	0.46
28:D6:15:ARG:HD2	28:D6:18:VAL:HG12	1.96	0.46
30:D8:13:ILE:HG13	30:D8:29:ARG:O	2.16	0.46
34:SR:160:GLU:C	34:SR:162:ALA:H	2.23	0.46
36:1:189:G:C2	36:1:191:U:C4	3.04	0.46
36:1:359:U:O2'	73:O7:16:HIS:ND1	2.36	0.46
36:1:669:U:H1'	36:1:1110:U:H4'	1.97	0.46
36:1:1331:U:OP2	36:1:1332:A:N6	2.42	0.46
36:1:1334:U:OP1	44:L7:206:LYS:HE3	2.16	0.46
36:1:1556:C:N4	36:1:2169:G:C8	2.84	0.46
36:1:1863:G:O3'	55:M9:82:LYS:HB2	2.15	0.46
36:1:2213:A:H2'	36:1:2214:A:H8	1.75	0.46
36:1:2313:A:C8	36:1:2315:G:C5	3.04	0.46
36:1:2608:G:OP1	39:L2:2:GLY:N	2.49	0.46
36:1:2890:A:C2	36:1:2914:G:C4	3.03	0.46
36:1:2992:U:H1'	53:M7:69:ARG:HH21	1.79	0.46
36:1:3013:U:H2'	36:1:3014:U:C6	2.51	0.46
36:1:3027:A:H2'	36:1:3028:G:O4'	2.15	0.46
36:1:3202:G:C6	36:1:3203:U:C4	3.04	0.46
42:L5:218:ARG:HE	42:L5:218:ARG:HB3	1.57	0.46
48:M1:36:VAL:HG21	48:M1:123:PHE:HD2	1.80	0.46
49:M3:25:HIS:HE1	51:M5:198:SER:HB2	1.80	0.46
49:M3:176:GLU:HG2	72:O6:11:LEU:HD23	1.98	0.46
51:M5:143:ARG:HE	71:O5:92:LEU:CD2	2.29	0.46
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.98	0.46
65:N9:7:HIS:CG	65:N9:8:THR:N	2.83	0.46
73:O7:63:ARG:HB3	73:O7:65:ARG:HG2	1.98	0.46
79:Q3:74:ALA:O	79:Q3:78:THR:HG23	2.16	0.46
80:6:177:U:H1'	8:s6:191:ARG:HH11	1.81	0.46
80:6:312:A:C5	80:6:314:C:C4	3.04	0.46
80:6:761:G:O6	87:6:2090:OHX:N1	2.49	0.46
80:6:1466:G:O2'	80:6:1602:C:OP1	2.33	0.46
2:s0:175:TYR:CE1	2:s0:197:ILE:HG22	2.50	0.46
3:s1:36:SER:N	3:s1:41:ARG:HH21	2.14	0.46
9:s7:14:THR:HG22	9:s7:17:GLU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:9:THR:HG21	18:c6:87:LYS:O	2.15	0.46
19:c7:53:TYR:O	19:c7:56:HIS:HB3	2.16	0.46
19:c7:104:ASN:H	19:c7:106:THR:CG2	2.27	0.46
21:c9:57:ARG:HG3	21:c9:57:ARG:NH1	2.14	0.46
22:d0:98:GLN:O	22:d0:102:ARG:HB3	2.16	0.46
23:d1:2:GLU:HG3	23:d1:6:GLY:HA2	1.97	0.46
25:d3:92:CYS:HA	25:d3:95:PHE:HD2	1.80	0.46
36:5:17:G:C2	36:5:18:G:H1'	2.51	0.46
36:5:87:U:H2'	36:5:88:A:C8	2.51	0.46
36:5:1214:U:H2'	36:5:1215:U:C6	2.50	0.46
36:5:1587:A:OP1	87:5:3493:OHX:N3	2.49	0.46
36:5:3016:A:C2	36:5:3017:A:C4	3.03	0.46
36:5:3152:U:C5	36:5:3395:G:C6	3.04	0.46
45:l8:210:ALA:HA	45:l8:213:LYS:HB3	1.97	0.46
47:m0:174:THR:O	47:m0:175:ASN:HB2	2.16	0.46
49:m3:68:LYS:NZ	49:m3:149:GLN:HG2	2.29	0.46
56:n0:26:ARG:O	57:n1:150:THR:HA	2.15	0.46
67:o1:17:HIS:HB2	67:o1:69:TYR:HB3	1.98	0.46
73:o7:28:HIS:HE1	73:o7:30:GLN:HB2	1.81	0.46
74:o8:45:VAL:O	74:o8:47:GLY:N	2.49	0.46
1:2:443:C:OP2	26:D4:105:ARG:HB3	2.15	0.45
1:2:498:G:C4	1:2:499:U:N3	2.83	0.45
1:2:813:U:C5	55:M9:163:ARG:HD2	2.51	0.45
1:2:856:A:N7	9:S7:97:ARG:HB2	2.31	0.45
1:2:1204:A:C8	1:2:1555:A:N1	2.84	0.45
1:2:1354:G:C5	1:2:1355:C:C4	3.04	0.45
1:2:1453:G:H2'	1:2:1454:G:C8	2.49	0.45
1:2:1798:U:C5	28:D6:38:ARG:NH2	2.84	0.45
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	1.98	0.45
3:S1:117:TRP:HE1	3:S1:152:ARG:NH1	2.14	0.45
7:S5:37:GLN:HG2	18:C6:53:LEU:HD13	1.97	0.45
7:S5:89:ILE:HD12	7:S5:90:ILE:H	1.80	0.45
11:S9:91:LYS:O	11:S9:92:LYS:HG2	2.16	0.45
17:C5:103:ASN:HD21	35:SM:56:GLY:HA3	1.81	0.45
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.15	0.45
20:C8:26:ILE:O	20:C8:58:ALA:N	2.32	0.45
20:C8:45:LEU:HD11	21:C9:36:ILE:HG22	1.97	0.45
22:D0:48:HIS:NE2	22:D0:50:LEU:HD11	2.31	0.45
27:D5:92:ILE:HG12	27:D5:100:ILE:CG2	2.46	0.45
33:E1:144:CYS:C	33:E1:146:SER:N	2.71	0.45
34:SR:21:THR:OG1	34:SR:68:VAL:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:SM:61:ILE:HD12	35:SM:62:ARG:N	2.31	0.45
36:1:109:A:N6	36:1:323:A:H1'	2.30	0.45
36:1:147:U:H5'	45:L8:136:LEU:HB2	1.99	0.45
36:1:197:G:N2	36:1:372:A:C8	2.85	0.45
36:1:955:U:H2'	36:1:956:U:H6	1.81	0.45
36:1:1135:A:OP1	65:N9:6:ASN:HB2	2.16	0.45
36:1:1139:G:O6	65:N9:10:HIS:CE1	2.68	0.45
36:1:1191:U:OP2	52:M6:49:ARG:HD2	2.16	0.45
36:1:1717:U:H2'	36:1:1718:G:C8	2.52	0.45
36:1:2407:C:H1'	36:1:2818:U:O2	2.16	0.45
36:1:2761:G:H1	36:1:2795:U:H3'	1.81	0.45
36:1:2794:G:H1'	36:1:2795:U:C6	2.50	0.45
36:1:3053:G:N2	36:1:3090:U:H1'	2.32	0.45
36:1:3257:C:C4	36:1:3258:U:C5	3.04	0.45
36:1:3269:U:H4'	36:1:3270:U:O5'	2.16	0.45
38:4:122:U:C2	38:4:123:G:C8	3.04	0.45
40:L3:116:ARG:HG2	40:L3:175:LYS:HA	1.98	0.45
41:L4:35:VAL:HG11	41:L4:244:LEU:HD21	1.98	0.45
45:L8:156:ASP:HB2	45:L8:157:VAL:H	1.57	0.45
46:L9:171:ASP:OD1	46:L9:171:ASP:C	2.58	0.45
48:M1:73:GLY:O	48:M1:75:LYS:N	2.49	0.45
49:M3:3:ILE:CD1	64:N8:34:MET:HE2	2.46	0.45
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.16	0.45
53:M7:22:LEU:HD13	53:M7:90:PHE:HD2	1.81	0.45
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.51	0.45
57:N1:72:VAL:HG21	57:N1:96:ILE:HG12	1.97	0.45
62:N6:23:PRO:O	62:N6:24:SER:C	2.59	0.45
63:N7:104:PRO:O	63:N7:108:GLU:HG3	2.17	0.45
80:6:57:G:C6	80:6:58:U:C4	3.04	0.45
80:6:301:A:C6	80:6:302:U:C4	3.04	0.45
80:6:525:A:C6	80:6:526:A:C6	3.04	0.45
80:6:1085:G:N2	80:6:1088:A:OP2	2.35	0.45
80:6:1460:A:C5	17:c5:128:HIS:HB3	2.50	0.45
80:6:1691:A:H2'	80:6:1692:G:C8	2.52	0.45
5:s3:207:THR:HB	19:c7:40:THR:OG1	2.16	0.45
7:s5:38:THR:OG1	18:c6:57:LEU:HD11	2.15	0.45
7:s5:163:SER:HB2	30:d8:48:VAL:HG22	1.98	0.45
7:s5:208:SER:O	7:s5:212:LYS:HG3	2.16	0.45
9:s7:21:ALA:HA	9:s7:24:PHE:HB2	1.98	0.45
10:s8:29:LEU:HD23	10:s8:29:LEU:C	2.41	0.45
10:s8:29:LEU:HD23	10:s8:29:LEU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:c2:62:LEU:HD12	14:c2:63:VAL:H	1.81	0.45
15:c3:85:PRO:HG2	15:c3:129:TYR:CE2	2.50	0.45
25:d3:42:PRO:HG2	25:d3:122:PHE:CZ	2.51	0.45
32:e0:13:LYS:CE	32:e0:17:GLN:HE22	2.28	0.45
36:5:894:G:N2	36:5:1660:C:OP1	2.49	0.45
36:5:1250:G:O2'	36:5:1251:A:H5'	2.17	0.45
36:5:1326:A:O2'	36:5:1327:C:H5'	2.16	0.45
36:5:1526:U:C4	36:5:1595:U:C5	3.04	0.45
36:5:2098:C:H2'	36:5:2099:A:O4'	2.16	0.45
36:5:2158:A:O2'	39:l2:118:GLU:OE1	2.27	0.45
36:5:2610:G:O6	87:5:3689:OHX:N6	2.49	0.45
36:5:2663:G:C2	36:5:2664:C:C2	3.03	0.45
36:5:2731:U:OP2	87:5:3754:OHX:N2	2.49	0.45
38:8:4:C:H2'	38:8:5:U:C6	2.51	0.45
38:8:29:U:O2'	38:8:30:C:H5'	2.16	0.45
39:l2:104:LEU:O	39:l2:139:HIS:HE1	1.98	0.45
42:l5:29:ASP:C	42:l5:29:ASP:OD2	2.59	0.45
57:n1:14:MET:HE3	57:n1:15:PHE:CE2	2.52	0.45
67:o1:16:LEU:HD13	67:o1:16:LEU:HA	1.78	0.45
67:o1:23:VAL:HB	67:o1:28:ARG:HG2	1.98	0.45
68:o2:19:ARG:HD3	68:o2:28:VAL:HG13	1.98	0.45
72:o6:73:ALA:HA	72:o6:76:ARG:HB3	1.98	0.45
1:2:993:A:H2'	1:2:994:G:O4'	2.15	0.45
1:2:1192:C:H5'	18:C6:142:TYR:HA	1.97	0.45
1:2:1331:A:H2'	1:2:1332:C:H5'	1.98	0.45
1:2:1586:A:H1'	1:2:1611:A:N6	2.31	0.45
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.81	0.45
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.97	0.45
23:D1:54:ALA:O	23:D1:55:LEU:HD23	2.16	0.45
25:D3:86:PHE:CE1	25:D3:88:PRO:HA	2.51	0.45
27:D5:42:LEU:O	27:D5:46:LYS:HB2	2.17	0.45
27:D5:59:TYR:CD1	27:D5:100:ILE:HD11	2.52	0.45
27:D5:65:LEU:HB3	27:D5:71:ILE:CD1	2.46	0.45
29:D7:73:LEU:H	29:D7:73:LEU:HD12	1.80	0.45
34:SR:267:PRO:HG2	34:SR:269:TYR:CE1	2.51	0.45
36:1:677:A:H4'	36:1:678:G:O5'	2.15	0.45
36:1:1196:C:C2	87:1:3531:OHX:N2	2.83	0.45
36:1:1400:G:C2	36:1:1401:A:C8	3.04	0.45
36:1:1517:G:C5	36:1:1518:U:C5	3.04	0.45
36:1:1678:G:N7	58:N2:74:LYS:NZ	2.63	0.45
36:1:1805:C:H2'	36:1:1806:A:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2405:C:O2	36:1:2819:A:N1	2.49	0.45
36:1:2628:A:H1'	36:1:2798:C:C2	2.50	0.45
36:1:2768:U:H2'	36:1:2769:A:H8	1.81	0.45
36:1:2927:C:H2'	36:1:2928:C:C6	2.51	0.45
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.16	0.45
36:1:3075:G:C2	36:1:3076:C:C2	3.05	0.45
36:1:3099:C:O2'	36:1:3100:U:H5'	2.16	0.45
41:L4:264:SER:OG	41:L4:267:VAL:HG13	2.15	0.45
42:L5:99:TYR:CD1	42:L5:99:TYR:C	2.93	0.45
42:L5:111:GLN:O	42:L5:113:LEU:N	2.49	0.45
49:M3:55:ARG:HA	49:M3:55:ARG:HD2	1.80	0.45
49:M3:114:GLN:O	49:M3:118:GLU:HG3	2.15	0.45
56:N0:83:SER:HG	56:N0:88:HIS:CE1	2.31	0.45
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.81	0.45
59:N3:45:ARG:O	59:N3:46:LEU:C	2.60	0.45
59:N3:84:SER:CB	59:N3:94:TYR:HB3	2.46	0.45
61:N5:132:ALA:O	61:N5:136:ALA:N	2.48	0.45
62:N6:16:ARG:O	62:N6:20:PHE:HD2	2.00	0.45
80:6:188:A:H2'	80:6:189:C:O4'	2.15	0.45
80:6:470:A:OP2	87:6:1957:OHX:N3	2.49	0.45
80:6:478:A:C2	80:6:511:A:C2	3.04	0.45
80:6:871:G:O2'	29:d7:67:THR:O	2.33	0.45
80:6:1045:C:H2'	80:6:1046:G:H8	1.80	0.45
80:6:1160:A:H2'	80:6:1161:C:H6	1.80	0.45
80:6:1533:C:H4'	80:6:1539:G:N1	2.31	0.45
80:6:1557:U:O2'	80:6:1558:U:H2'	2.16	0.45
6:s4:208:VAL:HB	6:s4:225:VAL:HG21	1.97	0.45
7:s5:89:ILE:HD12	7:s5:90:ILE:H	1.81	0.45
13:c1:75:VAL:HG21	13:c1:117:VAL:HG13	1.99	0.45
24:d2:24:GLN:CD	24:d2:24:GLN:N	2.74	0.45
28:d6:30:ILE:HG12	28:d6:34:LYS:HB3	1.97	0.45
29:d7:31:TYR:CD2	29:d7:48:SER:HB3	2.51	0.45
32:e0:40:TYR:CD2	32:e0:44:PHE:HE1	2.33	0.45
34:sR:200:ASN:H	34:sR:215:GLY:HA2	1.81	0.45
36:5:14:U:O2	61:n5:42:ARG:HD2	2.16	0.45
36:5:947:G:C5	36:5:1373:A:C2	3.04	0.45
36:5:1114:U:O2'	36:5:1115:G:H5'	2.16	0.45
36:5:1481:A:C2	70:o4:4:ARG:CZ	2.99	0.45
36:5:1510:G:H8	36:5:1510:G:O5'	1.99	0.45
36:5:1521:G:H21	36:5:1835:A:H1'	1.80	0.45
36:5:1573:G:C5	36:5:1574:C:H1'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3279:A:C2'	36:5:3280:U:H5'	2.46	0.45
36:5:3347:A:N6	36:5:3358:U:H3	2.13	0.45
40:l3:17:LEU:HD11	40:l3:233:TRP:CH2	2.50	0.45
40:l3:209:PHE:HB3	40:l3:282:ILE:HD12	1.98	0.45
41:l4:138:ARG:HH21	41:l4:240:PRO:HB2	1.81	0.45
44:l7:186:HIS:O	44:l7:190:THR:OG1	2.31	0.45
45:l8:166:LEU:HD23	45:l8:166:LEU:HA	1.67	0.45
50:m4:48:GLY:CA	50:m4:53:VAL:HB	2.46	0.45
52:m6:54:TYR:CD2	52:m6:58:LEU:HD22	2.50	0.45
54:m8:170:ARG:O	54:m8:171:LYS:HB2	2.16	0.45
84:p0:202:LEU:O	84:p0:204:ILE:N	2.50	0.45
1:2:246:G:N2	13:C1:40:LEU:HD22	2.31	0.45
1:2:342:C:C4	1:2:343:C:C5	3.04	0.45
1:2:544:A:H5''	1:2:545:A:OP2	2.15	0.45
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.97	0.45
1:2:1162:C:H5''	1:2:1163:A:OP2	2.16	0.45
1:2:1767:G:H4'	1:2:1768:G:O4'	2.17	0.45
3:S1:180:THR:HG22	3:S1:181:LEU:N	2.31	0.45
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.52	0.45
14:C2:131:ASP:CG	14:C2:132:GLU:H	2.24	0.45
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.16	0.45
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.81	0.45
18:C6:22:VAL:HG13	18:C6:65:ILE:HD11	1.98	0.45
20:C8:24:GLY:O	20:C8:26:ILE:HG23	2.17	0.45
23:D1:36:VAL:HG11	23:D1:78:LEU:HD13	1.98	0.45
29:D7:64:CYS:SG	29:D7:71:ALA:HB1	2.56	0.45
34:SR:211:ILE:HG22	34:SR:223:TRP:CD1	2.52	0.45
36:1:540:U:H2'	36:1:541:U:C6	2.51	0.45
36:1:936:A:OP1	64:N8:28:HIS:ND1	2.49	0.45
36:1:1193:A:H2'	36:1:1194:G:O4'	2.16	0.45
36:1:1524:A:OP1	61:N5:92:LYS:NZ	2.43	0.45
36:1:1745:C:H2'	36:1:1746:U:C6	2.49	0.45
36:1:1750:A:OP2	74:O8:42:LYS:NZ	2.50	0.45
36:1:1823:A:H2'	36:1:1824:U:H6	1.81	0.45
36:1:2112:U:O5'	36:1:2112:U:H6	2.00	0.45
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.97	0.45
36:1:2331:C:H2'	36:1:2332:A:C8	2.50	0.45
36:1:2700:G:OP1	57:N1:17:ARG:HB2	2.17	0.45
36:1:3024:A:O2'	46:L9:97:PHE:HE2	1.98	0.45
36:1:3256:G:C6	36:1:3257:C:C4	3.04	0.45
38:4:35:C:H5''	73:O7:70:VAL:HG11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:281:LYS:HZ3	40:L3:350:ALA:HA	1.81	0.45
41:L4:255:PHE:O	41:L4:258:LEU:HB2	2.17	0.45
45:L8:153:ILE:O	45:L8:180:VAL:N	2.47	0.45
46:L9:117:PHE:HB3	46:L9:124:ARG:NH2	2.31	0.45
48:M1:73:GLY:O	48:M1:74:PRO:C	2.60	0.45
51:M5:151:ILE:HD13	51:M5:151:ILE:HA	1.80	0.45
57:N1:39:ILE:HD12	57:N1:102:ARG:HB2	1.99	0.45
59:N3:84:SER:HB2	59:N3:94:TYR:HB3	1.98	0.45
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.16	0.45
78:Q2:22:GLN:O	78:Q2:75:VAL:HG22	2.16	0.45
79:Q3:46:THR:O	79:Q3:58:SER:N	2.35	0.45
80:6:187:G:H4'	80:6:188:A:OP1	2.16	0.45
80:6:320:U:H2'	80:6:321:C:C2	2.52	0.45
80:6:329:G:H5'	10:s8:99:ALA:HB3	1.98	0.45
80:6:482:U:H6	80:6:482:U:O5'	1.99	0.45
80:6:771:A:O2'	11:s9:6:ARG:NE	2.47	0.45
80:6:1460:A:C8	17:c5:128:HIS:HB3	2.52	0.45
81:c0:34:GLU:O	81:c0:35:ILE:HB	2.16	0.45
17:c5:25:LEU:O	17:c5:28:MET:HE2	2.16	0.45
17:c5:90:ILE:HD13	17:c5:109:PRO:HA	1.98	0.45
18:c6:5:PRO:HB2	18:c6:96:TYR:CE2	2.51	0.45
20:c8:94:ASP:OD1	20:c8:96:LYS:HG3	2.15	0.45
26:d4:49:LYS:HD3	26:d4:49:LYS:N	2.31	0.45
27:d5:40:VAL:HA	27:d5:75:LEU:HD13	1.98	0.45
33:e1:82:LYS:O	33:e1:84:VAL:N	2.49	0.45
36:5:1055:A:H1'	37:7:81:U:O2'	2.17	0.45
36:5:1110:U:H2'	36:5:1111:U:C6	2.50	0.45
36:5:1495:U:H2'	36:5:1842:A:C2	2.51	0.45
36:5:1597:C:H2'	36:5:1598:G:C8	2.51	0.45
36:5:2176:U:C2'	36:5:2177:G:H5'	2.45	0.45
36:5:2667:A:H8	36:5:2667:A:H5'	1.81	0.45
36:5:2784:G:C2	36:5:2785:A:C4	3.04	0.45
37:7:57:G:C8	37:7:58:C:C5	3.04	0.45
40:l3:147:GLU:O	40:l3:150:ARG:HB3	2.16	0.45
40:l3:380:MET:HE2	40:l3:380:MET:HB3	1.52	0.45
41:l4:58:HIS:HD2	41:l4:98:ARG:HB2	1.81	0.45
43:l6:87:THR:OG1	43:l6:89:THR:HG23	2.17	0.45
45:l8:190:VAL:O	45:l8:190:VAL:HG12	2.17	0.45
48:m1:131:MET:HE3	48:m1:131:MET:HB3	1.81	0.45
50:m4:105:GLN:NE2	52:m6:198:GLY:O	2.45	0.45
55:m9:89:LEU:HD12	55:m9:90:PRO:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:n0:13:ARG:NH2	56:n0:50:LYS:O	2.50	0.45
58:n2:28:PHE:HE1	58:n2:83:TYR:HE2	1.64	0.45
59:n3:108:GLU:HB3	59:n3:128:ARG:HH11	1.82	0.45
62:n6:119:ILE:HG22	62:n6:124:GLY:HA3	1.98	0.45
64:n8:47:LYS:HG3	64:n8:48:TYR:N	2.31	0.45
78:q2:47:GLN:HE22	78:q2:54:THR:H	1.63	0.45
1:2:15:U:H2'	1:2:16:G:O4'	2.16	0.45
1:2:432:G:H2'	1:2:433:C:O4'	2.17	0.45
1:2:881:A:C2	1:2:882:U:H1'	2.52	0.45
1:2:1497:U:C4	1:2:1511:U:O2	2.70	0.45
87:2:1969:OHX:N6	77:Q1:25:LYS:O	2.50	0.45
3:S1:176:VAL:C	3:S1:178:GLY:N	2.73	0.45
9:S7:60:ILE:HD12	9:S7:92:PHE:CZ	2.52	0.45
11:S9:123:HIS:HE1	32:E0:37:ARG:HB2	1.81	0.45
17:C5:80:MET:CE	17:C5:83:MET:HG3	2.47	0.45
18:C6:54:LEU:HD12	18:C6:108:ALA:O	2.16	0.45
20:C8:33:THR:HG22	20:C8:38:VAL:O	2.16	0.45
23:D1:4:ASP:OD1	23:D1:5:LYS:HD3	2.16	0.45
26:D4:52:LYS:O	26:D4:54:ALA:N	2.49	0.45
36:1:270:U:C2	36:1:271:C:C5	3.04	0.45
36:1:304:G:H5'	36:1:304:G:N3	2.32	0.45
36:1:436:A:H2'	36:1:437:G:O4'	2.16	0.45
36:1:560:G:H4'	50:M4:73:PRO:HG2	1.98	0.45
36:1:1019:G:H2'	36:1:1020:G:O4'	2.16	0.45
36:1:1038:C:H4'	42:L5:5:LYS:HZ1	1.81	0.45
36:1:3018:C:C5	36:1:3019:U:C5	3.05	0.45
36:1:3030:G:C6	36:1:3031:G:C4	3.04	0.45
36:1:3153:U:H3	36:1:3293:U:H3	1.65	0.45
38:4:80:A:C2	38:4:82:U:O4	2.69	0.45
43:L6:129:GLU:CD	43:L6:130:ILE:H	2.25	0.45
47:M0:21:ARG:O	47:M0:24:ARG:NH2	2.49	0.45
49:M3:189:GLU:O	49:M3:192:GLU:HG2	2.17	0.45
51:M5:59:PHE:HD1	51:M5:133:ILE:HD11	1.82	0.45
58:N2:82:LYS:HE2	58:N2:82:LYS:HB2	1.54	0.45
68:O2:95:GLU:HA	68:O2:120:THR:OG1	2.16	0.45
69:O3:29:LEU:HD22	69:O3:75:HIS:CD2	2.52	0.45
74:O8:45:VAL:O	74:O8:51:LEU:HD12	2.17	0.45
78:Q2:7:THR:HB	78:Q2:22:GLN:HE21	1.82	0.45
79:Q3:51:ALA:O	79:Q3:52:ALA:C	2.59	0.45
79:Q3:73:THR:HG23	79:Q3:76:ALA:H	1.81	0.45
80:6:95:G:OP1	6:s4:6:LYS:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:219:A:N6	80:6:843:U:O2	2.49	0.45
80:6:404:G:H2'	80:6:405:C:H6	1.82	0.45
80:6:454:U:O2	6:s4:63:ALA:HA	2.16	0.45
80:6:564:G:O6	87:6:2068:OHX:N5	2.48	0.45
80:6:824:G:C8	87:6:2098:OHX:N5	2.85	0.45
80:6:1005:A:C5	80:6:1006:C:C4	3.05	0.45
80:6:1218:G:N2	80:6:1443:U:H2'	2.32	0.45
4:s2:139:ILE:CD1	4:s2:191:ALA:HB1	2.45	0.45
6:s4:32:SER:OG	6:s4:81:THR:OG1	2.33	0.45
6:s4:118:GLU:HA	6:s4:121:TYR:CD1	2.52	0.45
8:s6:25:ARG:HA	8:s6:28:PHE:CD2	2.51	0.45
8:s6:67:VAL:O	8:s6:68:LEU:HB2	2.17	0.45
11:s9:159:ALA:O	11:s9:165:GLY:HA3	2.16	0.45
26:d4:130:ALA:HA	26:d4:133:ASN:OD1	2.17	0.45
36:5:173:G:O2'	36:5:174:C:H6	1.96	0.45
36:5:344:A:C4	36:5:345:G:C8	3.04	0.45
36:5:412:G:H2'	36:5:413:U:C6	2.52	0.45
36:5:1049:C:H2'	36:5:1050:U:C6	2.52	0.45
36:5:1394:A:N3	38:8:19:C:O2'	2.45	0.45
36:5:1519:G:H2'	36:5:1520:G:C8	2.51	0.45
36:5:1554:U:H4'	36:5:1555:U:OP1	2.16	0.45
36:5:1610:G:H2'	36:5:1611:G:C8	2.51	0.45
36:5:1783:U:C2	36:5:1784:G:C8	3.04	0.45
36:5:2244:A:O2'	36:5:2245:C:H5'	2.17	0.45
36:5:2862:U:O4	87:5:3403:OHX:N3	2.50	0.45
36:5:2971:A:H3'	36:5:2971:A:N3	2.31	0.45
36:5:3000:A:H2'	36:5:3001:C:C6	2.51	0.45
36:5:3107:U:P	76:q0:112:LYS:HZ1	2.39	0.45
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.98	0.45
45:l8:221:ASN:HA	45:l8:225:LYS:HE3	1.97	0.45
49:m3:17:HIS:ND1	49:m3:20:GLU:OE1	2.42	0.45
49:m3:42:ARG:O	49:m3:46:ILE:HG12	2.16	0.45
56:n0:53:LYS:C	56:n0:55:SER:H	2.24	0.45
56:n0:96:ASP:OD1	56:n0:97:VAL:N	2.43	0.45
59:n3:125:LEU:HB3	59:n3:126:TRP:CD1	2.51	0.45
62:n6:57:LEU:HD23	62:n6:67:GLU:HG2	1.99	0.45
64:n8:25:HIS:C	64:n8:25:HIS:CD2	2.95	0.45
65:n9:23:LYS:CB	65:n9:24:PRO:HD3	2.47	0.45
66:o0:78:GLY:HA2	66:o0:87:VAL:HG13	1.98	0.45
76:q0:77:ILE:HD12	76:q0:78:ILE:H	1.82	0.45
1:2:156:A:C2	1:2:415:C:H1'	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:346:G:O2'	13:C1:80:MET:HG2	2.16	0.45
1:2:513:U:H2'	1:2:514:G:C8	2.52	0.45
1:2:1113:A:H8	1:2:1113:A:OP1	1.99	0.45
1:2:1146:G:C6	1:2:1147:A:C6	3.03	0.45
1:2:1234:A:H4'	33:E1:146:SER:HB3	1.98	0.45
1:2:1261:G:H2'	1:2:1262:U:C6	2.51	0.45
1:2:1498:G:OP1	21:C9:75:LYS:HD2	2.16	0.45
1:2:1808:G:N2	1:2:1819:C:H41	2.14	0.45
2:S0:52:LYS:H	2:S0:52:LYS:HG2	1.37	0.45
2:S0:119:ARG:NH2	4:S2:238:SER:OG	2.47	0.45
6:S4:37:LYS:HB2	6:S4:40:GLU:HG2	1.99	0.45
8:S6:5:ILE:HG21	8:S6:50:PHE:HE1	1.81	0.45
14:C2:56:GLU:HB3	14:C2:124:LYS:HG2	1.99	0.45
20:C8:26:ILE:HD11	20:C8:30:TYR:C	2.42	0.45
21:C9:76:LEU:O	21:C9:80:TYR:CD2	2.70	0.45
26:D4:18:LEU:HD23	26:D4:18:LEU:HA	1.85	0.45
27:D5:59:TYR:O	27:D5:64:VAL:HG11	2.16	0.45
29:D7:63:LEU:O	29:D7:74:SER:N	2.49	0.45
36:1:80:G:O2'	36:1:81:C:H5'	2.16	0.45
36:1:653:A:C2	36:1:1443:G:C4	3.04	0.45
36:1:916:G:C6	39:L2:207:VAL:HG11	2.51	0.45
36:1:1013:G:N2	36:1:1038:C:H1'	2.32	0.45
36:1:1286:A:O2'	36:1:1287:A:OP2	2.28	0.45
36:1:1316:C:C5	52:M6:130:LYS:HA	2.51	0.45
36:1:1881:A:N1	36:1:2352:A:C6	2.84	0.45
36:1:2278:C:O2'	36:1:2279:A:H5''	2.16	0.45
36:1:2402:A:OP2	87:1:3628:OHX:N5	2.50	0.45
36:1:2660:G:H1'	36:1:2744:U:H1'	1.97	0.45
36:1:2941:A:N7	40:L3:256:HIS:HE1	2.14	0.45
36:1:3276:G:OP1	36:1:3276:G:H4'	2.17	0.45
87:1:3407:OHX:N6	87:1:3806:OHX:N6	2.64	0.45
41:L4:52:VAL:HB	41:L4:99:MET:HE3	1.98	0.45
42:L5:108:ARG:NH1	42:L5:253:PHE:HB2	2.32	0.45
43:L6:43:LEU:HD21	43:L6:85:ILE:HG13	1.97	0.45
44:L7:128:LYS:O	44:L7:130:ILE:N	2.49	0.45
46:L9:91:ARG:HG3	46:L9:91:ARG:NH2	2.32	0.45
49:M3:35:ARG:HG2	49:M3:39:ARG:NH1	2.32	0.45
54:M8:11:LYS:HE3	54:M8:11:LYS:HB2	1.63	0.45
63:N7:3:LYS:O	63:N7:5:LEU:N	2.50	0.45
71:O5:93:THR:HG23	71:O5:96:GLU:OE1	2.16	0.45
74:O8:30:LYS:O	74:O8:38:PHE:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:536:C:N4	80:6:537:G:O6	2.49	0.45
80:6:885:G:H2'	80:6:886:U:C6	2.51	0.45
2:s0:144:ILE:H	2:s0:144:ILE:HG12	1.40	0.45
6:s4:230:GLU:HB2	6:s4:233:LYS:NZ	2.32	0.45
7:s5:184:PHE:CD1	7:s5:185:ARG:HG3	2.51	0.45
14:c2:30:VAL:HG11	14:c2:132:GLU:OE1	2.15	0.45
15:c3:110:ASP:OD2	15:c3:114:ARG:NH1	2.49	0.45
16:c4:50:ALA:C	16:c4:52:ARG:N	2.74	0.45
20:c8:54:LEU:H	20:c8:54:LEU:HD12	1.82	0.45
20:c8:118:LYS:O	20:c8:120:ARG:HG3	2.17	0.45
21:c9:23:GLN:HA	21:c9:55:TYR:CE1	2.52	0.45
22:d0:68:ARG:HG2	22:d0:79:TRP:CH2	2.51	0.45
25:d3:69:ARG:HD2	25:d3:116:ASP:OD2	2.17	0.45
31:d9:19:ARG:HD3	31:d9:32:ARG:NE	2.31	0.45
36:5:215:G:H5''	62:n6:12:ARG:HD3	1.98	0.45
36:5:409:A:H2	36:5:1441:G:N3	2.14	0.45
36:5:411:U:H2'	36:5:412:G:H8	1.81	0.45
36:5:683:U:H2'	36:5:684:G:O4'	2.17	0.45
36:5:1282:G:H2'	36:5:1283:C:O4'	2.16	0.45
36:5:1841:A:C5	36:5:1848:G:C2	3.05	0.45
36:5:2533:G:H2'	36:5:2534:G:C8	2.51	0.45
36:5:2652:U:C4	36:5:2759:U:O2	2.70	0.45
36:5:2743:A:C6	36:5:2744:U:C4	3.05	0.45
36:5:3254:G:O6	87:5:3804:OHX:N4	2.50	0.45
36:5:3308:C:O2	53:m7:69:ARG:HD3	2.16	0.45
38:8:106:C:O2'	87:8:216:OHX:N5	2.50	0.45
39:l2:105:GLY:HA2	39:l2:139:HIS:CE1	2.51	0.45
40:l3:188:ILE:H	40:l3:188:ILE:CD1	2.27	0.45
41:l4:356:THR:O	41:l4:360:LYS:HB2	2.16	0.45
43:l6:41:ILE:HB	43:l6:85:ILE:HB	1.97	0.45
46:l9:161:LEU:HD13	46:l9:179:ILE:HG21	1.98	0.45
51:m5:153:ASP:OD2	51:m5:154:PRO:HD2	2.16	0.45
55:m9:68:GLN:HA	55:m9:71:ARG:NH1	2.32	0.45
59:n3:95:PHE:HE1	59:n3:117:PRO:HB2	1.80	0.45
62:n6:70:ILE:HD12	62:n6:82:VAL:HG22	1.97	0.45
64:n8:73:LEU:HB2	64:n8:109:TYR:CE2	2.51	0.45
1:2:4:C:OP2	4:S2:200:SER:OG	2.34	0.45
1:2:163:G:P	1:2:163:G:H21	2.38	0.45
1:2:322:G:O4'	1:2:323:A:H8	1.99	0.45
1:2:583:C:OP1	87:2:1904:OHX:N6	2.49	0.45
1:2:1552:U:H2'	1:2:1553:G:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1657:U:C2	87:2:1969:OHX:N2	2.84	0.45
87:2:1962:OHX:N3	87:2:1964:OHX:N5	2.64	0.45
5:S3:49:ILE:HA	5:S3:87:TYR:O	2.17	0.45
13:C1:55:ASP:OD2	13:C1:110:HIS:HE1	1.99	0.45
21:C9:11:ALA:O	21:C9:15:ILE:HG13	2.17	0.45
36:1:583:G:O6	87:1:3542:OHX:N2	2.49	0.45
36:1:976:U:P	54:M8:144:ARG:HH22	2.40	0.45
36:1:1090:G:H2'	36:1:1091:A:H8	1.81	0.45
36:1:1445:U:H5''	36:1:1446:A:OP2	2.16	0.45
36:1:2359:C:H2'	36:1:2360:C:C6	2.51	0.45
36:1:2420:C:H2'	36:1:2421:U:H5'	1.99	0.45
36:1:2553:U:C4	70:O4:95:ILE:HG12	2.52	0.45
36:1:2892:A:C5	36:1:2893:C:C5	3.04	0.45
38:4:5:U:H2'	38:4:6:U:O4'	2.17	0.45
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.17	0.45
38:4:144:G:O2'	38:4:145:U:H5'	2.16	0.45
40:L3:150:ARG:O	40:L3:151:ILE:C	2.60	0.45
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.17	0.45
51:M5:121:VAL:O	51:M5:122:ASN:HB2	2.17	0.45
53:M7:65:SER:O	53:M7:66:SER:HB2	2.16	0.45
56:N0:132:THR:C	56:N0:134:ASP:H	2.24	0.45
69:O3:38:PRO:HD2	69:O3:39:GLN:NE2	2.31	0.45
73:O7:52:LYS:O	73:O7:55:ARG:N	2.50	0.45
80:6:250:C:H5'	80:6:250:C:H6	1.82	0.45
80:6:752:A:C6	80:6:753:A:C6	3.05	0.45
80:6:1118:G:C6	80:6:1119:G:C5	3.04	0.45
80:6:1523:G:O2'	80:6:1524:A:OP1	2.31	0.45
4:s2:177:GLY:C	4:s2:195:ASP:HA	2.42	0.45
6:s4:121:TYR:OH	6:s4:235:TYR:O	2.25	0.45
6:s4:230:GLU:O	6:s4:233:LYS:N	2.38	0.45
9:s7:126:LEU:HD13	9:s7:173:TYR:CD2	2.51	0.45
11:s9:84:GLY:O	11:s9:107:ARG:HD3	2.16	0.45
29:d7:51:GLN:HA	29:d7:66:PRO:HB3	1.99	0.45
34:sR:31:ASN:HA	34:sR:47:LEU:HB2	1.98	0.45
34:sR:106:HIS:CE1	34:sR:126:SER:HB3	2.52	0.45
36:5:46:U:O5'	36:5:46:U:H6	1.99	0.45
36:5:268:A:C5	51:m5:12:ARG:HG2	2.52	0.45
36:5:750:G:N3	36:5:751:A:C8	2.85	0.45
36:5:771:A:H2'	36:5:772:U:O4'	2.16	0.45
36:5:836:A:O2'	79:q3:9:GLY:O	2.29	0.45
36:5:951:A:OP2	36:5:1367:G:N2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1468:A:C6	36:5:1469:C:N4	2.85	0.45
36:5:1468:A:N1	36:5:1880:U:O2'	2.50	0.45
36:5:1738:C:H1'	70:o4:52:GLN:HG3	1.98	0.45
36:5:1874:A:OP2	55:m9:20:ARG:HD2	2.16	0.45
36:5:2180:G:C6	36:5:2181:C:N4	2.85	0.45
36:5:2573:G:O6	87:5:3714:OHX:N6	2.49	0.45
36:5:2793:G:H4'	78:q2:66:LYS:HE2	1.98	0.45
36:5:3012:A:OP2	36:5:3099:C:H5	1.99	0.45
36:5:3084:C:H2'	36:5:3085:G:O4'	2.17	0.45
36:5:3224:G:C2	36:5:3225:C:C6	3.05	0.45
36:5:3242:G:H5''	36:5:3245:A:H8	1.77	0.45
38:8:27:U:H2'	38:8:28:C:C6	2.51	0.45
39:l2:21:ARG:NH2	39:l2:22:LEU:HD11	2.31	0.45
39:l2:143:GLU:O	39:l2:145:LYS:N	2.49	0.45
40:l3:187:SER:HB3	40:l3:190:GLU:CD	2.42	0.45
41:l4:209:TYR:C	41:l4:254:ALA:HB2	2.41	0.45
45:l8:94:PHE:HB3	45:l8:189:LEU:HD21	1.99	0.45
56:n0:131:LYS:O	56:n0:134:ASP:HB2	2.17	0.45
63:n7:83:THR:HG23	63:n7:85:TYR:N	2.22	0.45
64:n8:48:TYR:O	64:n8:49:HIS:CG	2.70	0.45
65:n9:59:LYS:HE3	65:n9:59:LYS:HB2	1.77	0.45
66:o0:34:LEU:HD23	66:o0:59:TYR:HB3	1.98	0.45
69:o3:73:ARG:HD3	69:o3:82:ARG:HD2	1.98	0.45
70:o4:74:ARG:HD2	70:o4:85:VAL:HG21	1.99	0.45
72:o6:3:VAL:HG22	72:o6:3:VAL:O	2.16	0.45
72:o6:81:THR:HA	72:o6:84:LYS:NZ	2.32	0.45
1:2:164:A:O2'	1:2:165:G:H5'	2.16	0.45
1:2:190:C:C4	1:2:196:G:O6	2.70	0.45
1:2:539:G:H8	1:2:539:G:P	2.40	0.45
1:2:577:G:H2'	35:SM:99:LYS:HZ3	1.82	0.45
1:2:707:A:H2'	1:2:708:C:H5''	1.99	0.45
1:2:1482:C:OP2	1:2:1521:G:N1	2.46	0.45
1:2:1531:G:H21	21:C9:48:GLN:NE2	2.14	0.45
1:2:1553:G:O6	17:C5:43:ARG:HD3	2.17	0.45
1:2:1774:G:H2'	1:2:1775:U:O4'	2.17	0.45
1:2:1796:C:H5	28:D6:6:ALA:H	1.60	0.45
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.16	0.45
6:S4:54:TYR:CG	26:D4:17:LEU:HD11	2.51	0.45
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.32	0.45
20:C8:113:LEU:O	20:C8:117:LYS:HG3	2.16	0.45
24:D2:17:ALA:O	24:D2:20:THR:OG1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:55:PRO:O	27:D5:56:THR:OG1	2.25	0.45
28:D6:36:ILE:CG2	28:D6:73:TYR:HB2	2.46	0.45
36:1:20:A:H2'	36:1:21:G:C8	2.52	0.45
36:1:1711:C:OP1	63:N7:78:ASN:ND2	2.49	0.45
36:1:2603:G:H2'	36:1:2604:U:O4'	2.15	0.45
37:3:61:G:H2'	37:3:62:U:H6	1.80	0.45
37:3:95:A:C2	37:3:96:U:C2	3.04	0.45
39:L2:245:LEU:O	39:L2:247:ARG:N	2.50	0.45
44:L7:158:LYS:HG2	44:L7:203:TRP:HZ3	1.82	0.45
49:M3:46:ILE:HD13	49:M3:46:ILE:HA	1.57	0.45
51:M5:140:LYS:O	51:M5:144:ARG:HG3	2.17	0.45
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.52	0.45
58:N2:43:VAL:CG2	58:N2:50:LEU:HD23	2.46	0.45
73:O7:76:ASN:O	73:O7:79:GLN:HG3	2.17	0.45
78:Q2:4:VAL:HG22	78:Q2:93:LEU:HB3	1.99	0.45
80:6:78:A:H1'	8:s6:175:ILE:HG12	1.98	0.45
80:6:710:U:H5'	80:6:711:U:OP2	2.17	0.45
80:6:1363:U:O2'	80:6:1364:G:H5'	2.16	0.45
2:s0:195:TRP:CE2	2:s0:197:ILE:HD13	2.52	0.45
5:s3:127:MET:HE1	5:s3:133:GLY:N	2.32	0.45
8:s6:182:GLN:HE21	8:s6:185:GLN:HB3	1.82	0.45
17:c5:127:ARG:HG3	17:c5:130:ARG:HG2	1.99	0.45
18:c6:82:ARG:NH2	18:c6:114:ARG:HG3	2.25	0.45
18:c6:128:LYS:HE2	18:c6:134:ALA:O	2.16	0.45
19:c7:103:ASP:O	19:c7:104:ASN:HB3	2.17	0.45
19:c7:108:ASP:HA	19:c7:111:LYS:HB2	1.99	0.45
36:5:77:A:H5'	49:m3:100:ARG:NH1	2.31	0.45
36:5:123:A:C5	36:5:150:A:C6	3.05	0.45
36:5:706:A:H4'	36:5:781:G:O2'	2.17	0.45
36:5:1131:G:C2	36:5:2373:A:C4	3.04	0.45
36:5:1252:A:N7	36:5:1253:U:H5	2.14	0.45
36:5:1256:G:H2'	36:5:1257:C:C6	2.51	0.45
36:5:1438:U:H2'	36:5:1439:U:C6	2.52	0.45
36:5:1481:A:H2'	36:5:1481:A:N3	2.31	0.45
36:5:1488:G:O2'	70:o4:10:ARG:O	2.35	0.45
36:5:1822:C:H2'	36:5:1823:A:C8	2.52	0.45
36:5:2218:G:OP1	72:o6:68:ARG:NH2	2.49	0.45
36:5:2918:G:C2	36:5:2919:A:N7	2.85	0.45
36:5:3060:C:OP1	87:5:3621:OHX:N5	2.50	0.45
37:7:22:A:C6	42:l5:269:SER:O	2.70	0.45
40:l3:293:ASN:HB2	40:l3:305:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:123:GLN:C	45:l8:125:ALA:H	2.22	0.45
47:m0:174:THR:HG1	47:m0:175:ASN:N	2.09	0.45
50:m4:68:LEU:HD23	50:m4:68:LEU:HA	1.74	0.45
53:m7:59:PRO:HG3	53:m7:76:PHE:CG	2.51	0.45
54:m8:85:GLY:HA2	54:m8:104:LEU:HD12	1.99	0.45
54:m8:180:ARG:NH1	54:m8:185:LYS:HB3	2.26	0.45
57:n1:39:ILE:CD1	57:n1:102:ARG:HE	2.29	0.45
63:n7:25:ILE:HG23	63:n7:41:ALA:HB1	1.99	0.45
67:o1:50:ARG:CZ	67:o1:90:PHE:CE2	3.00	0.45
1:2:324:U:O2'	13:C1:80:MET:HE3	2.16	0.45
1:2:329:G:H2'	1:2:330:G:C8	2.51	0.45
1:2:330:G:C6	1:2:331:A:C6	3.05	0.45
1:2:576:G:OP2	35:SM:102:THR:HG21	2.16	0.45
1:2:1164:G:OP1	7:S5:166:ARG:NH2	2.49	0.45
3:S1:181:LEU:O	3:S1:182:ALA:C	2.59	0.45
5:S3:216:PRO:HB2	5:S3:217:ILE:H	1.60	0.45
8:S6:158:ILE:HD12	8:S6:158:ILE:HA	1.61	0.45
11:S9:130:THR:HA	11:S9:142:ASN:HB2	1.98	0.45
11:S9:146:PHE:O	11:S9:147:MET:HB2	2.17	0.45
11:S9:163:PRO:C	11:S9:165:GLY:H	2.24	0.45
14:C2:124:LYS:O	14:C2:126:TRP:N	2.50	0.45
17:C5:28:MET:HE1	17:C5:33:PHE:HA	1.99	0.45
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.71	0.45
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.98	0.45
34:SR:192:PHE:HB3	34:SR:223:TRP:CZ3	2.51	0.45
36:1:768:C:O3'	49:M3:179:PHE:HE2	1.99	0.45
36:1:975:C:H2'	36:1:976:U:H6	1.82	0.45
36:1:1240:A:H61	36:1:1244:A:H5''	1.82	0.45
36:1:1365:G:OP2	87:1:3505:OHX:N6	2.50	0.45
36:1:1447:G:H3'	53:M7:67:ILE:CD1	2.46	0.45
36:1:1689:U:N3	36:1:1690:C:C5	2.85	0.45
36:1:1814:A:C2	36:1:1816:A:C6	3.05	0.45
36:1:2103:U:H2'	36:1:2104:A:C8	2.51	0.45
36:1:2172:A:O3'	39:L2:17:THR:HG22	2.16	0.45
36:1:2369:G:H2'	36:1:2370:G:H8	1.80	0.45
36:1:2620:G:O6	87:1:3659:OHX:N5	2.50	0.45
36:1:2840:C:N4	36:1:2845:A:O2'	2.49	0.45
36:1:2943:G:C8	40:L3:2:SER:N	2.85	0.45
36:1:2996:U:H2'	36:1:2996:U:O2	2.17	0.45
36:1:3057:U:C2	36:1:3086:A:C6	3.04	0.45
36:1:3174:A:C2'	36:1:3175:U:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3308:C:H3'	36:1:3309:G:H21	1.82	0.45
36:1:3343:G:H21	36:1:3362:A:H2	1.65	0.45
41:L4:44:LYS:HB3	41:L4:47:ARG:HH11	1.82	0.45
41:L4:64:SER:HA	41:L4:75:PRO:HA	1.99	0.45
41:L4:212:ASP:OD1	41:L4:216:VAL:HB	2.17	0.45
49:M3:132:ALA:O	49:M3:134:GLU:N	2.49	0.45
52:M6:73:PHE:CB	52:M6:78:ARG:HG2	2.46	0.45
52:M6:98:ALA:HA	52:M6:101:ARG:HH11	1.80	0.45
53:M7:27:LYS:HE2	53:M7:63:PHE:CD1	2.51	0.45
54:M8:126:GLN:O	54:M8:130:ARG:HG3	2.17	0.45
55:M9:178:ALA:HA	55:M9:181:ARG:HB3	1.98	0.45
71:O5:4:VAL:HG11	71:O5:9:LEU:HD11	1.99	0.45
72:O6:98:ARG:HD2	72:O6:98:ARG:H	1.81	0.45
80:6:63:G:C6	80:6:64:U:C5	3.05	0.45
80:6:158:U:O2'	80:6:159:U:H3'	2.17	0.45
80:6:176:C:H2'	80:6:177:U:O4'	2.15	0.45
80:6:632:U:OP1	13:c1:102:LYS:HE2	2.17	0.45
80:6:709:C:O2	80:6:730:G:C2	2.69	0.45
80:6:1129:U:H2'	80:6:1130:G:H5'	1.98	0.45
80:6:1174:C:C2	80:6:1466:G:N2	2.85	0.45
80:6:1318:G:N7	87:6:2023:OHX:N3	2.65	0.45
6:s4:137:PRO:CG	6:s4:150:PRO:HD2	2.46	0.45
8:s6:7:TYR:HB2	8:s6:124:LEU:HG	1.99	0.45
11:s9:175:ARG:O	11:s9:179:ARG:HG2	2.17	0.45
81:c0:32:HIS:CG	81:c0:33:GLU:H	2.35	0.45
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.49	0.45
18:c6:7:VAL:N	18:c6:22:VAL:O	2.50	0.45
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.99	0.45
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.52	0.45
25:d3:42:PRO:HG2	25:d3:122:PHE:HZ	1.82	0.45
28:d6:26:CYS:HB2	28:d6:28:LYS:H	1.81	0.45
29:d7:18:LYS:HD3	29:d7:22:LYS:O	2.17	0.45
36:5:44:U:O2'	78:q2:46:LYS:NZ	2.49	0.45
36:5:304:G:N1	64:n8:62:HIS:CE1	2.85	0.45
36:5:703:G:O2'	36:5:787:G:H4'	2.17	0.45
36:5:992:A:C2'	36:5:993:G:H5'	2.47	0.45
36:5:2263:C:O5'	36:5:2263:C:H6	2.00	0.45
36:5:2610:G:H2'	36:5:2611:U:O4'	2.17	0.45
36:5:2651:G:C4	36:5:2796:G:C2	3.05	0.45
36:5:3025:C:H2'	36:5:3026:G:O4'	2.17	0.45
36:5:3279:A:N6	36:5:3280:U:C4	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:74:C:O2	37:7:105:C:N3	2.50	0.45
37:7:121:U:H5'	42:15:260:PHE:CE2	2.51	0.45
40:13:91:GLY:O	40:13:101:SER:HA	2.17	0.45
40:13:161:LEU:HB3	40:13:178:LEU:HD11	1.98	0.45
40:13:188:ILE:O	40:13:191:LYS:HB2	2.17	0.45
41:14:295:ILE:CD1	54:m8:129:VAL:HA	2.46	0.45
48:m1:24:GLY:CA	48:m1:65:ILE:HG23	2.47	0.45
54:m8:176:ARG:HB2	64:n8:53:PHE:O	2.17	0.45
58:n2:16:THR:HG22	58:n2:64:THR:OG1	2.17	0.45
63:n7:34:LYS:O	63:n7:37:PRO:HG3	2.17	0.45
63:n7:83:THR:HA	66:o0:58:TYR:HE2	1.82	0.45
67:o1:70:ARG:HD2	67:o1:102:LYS:HE2	1.98	0.45
69:o3:8:TYR:HB3	69:o3:101:PHE:CD1	2.51	0.45
74:o8:16:ARG:NH1	74:o8:70:PRO:HG3	2.31	0.45
1:2:417:A:H4'	1:2:418:G:O5'	2.16	0.45
1:2:601:A:H2'	1:2:602:U:O4'	2.16	0.45
1:2:823:G:H2'	1:2:824:G:H8	1.79	0.45
1:2:1138:A:H2'	1:2:1139:A:C8	2.42	0.45
1:2:1389:C:H5'	19:C7:49:LYS:HD2	1.99	0.45
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.16	0.45
1:2:1484:G:H1'	1:2:1606:C:O2'	2.17	0.45
1:2:1680:G:H8	1:2:1680:G:OP2	2.00	0.45
2:S0:49:ASN:HB3	2:S0:52:LYS:CG	2.37	0.45
3:S1:111:ARG:HB3	28:D6:68:TYR:HD2	1.80	0.45
3:S1:181:LEU:HA	3:S1:184:LEU:HB3	1.98	0.45
4:S2:140:ARG:HD3	4:S2:222:TYR:CE1	2.52	0.45
11:S9:129:ILE:HG12	11:S9:134:ILE:HD12	1.98	0.45
13:C1:39:GLY:C	13:C1:41:GLY:H	2.25	0.45
17:C5:18:ARG:O	20:C8:95:GLY:HA3	2.17	0.45
18:C6:40:GLU:CG	18:C6:42:GLU:HB2	2.47	0.45
20:C8:70:VAL:HG12	20:C8:74:GLN:OE1	2.16	0.45
20:C8:81:ILE:HG23	20:C8:82:PRO:HD2	1.99	0.45
26:D4:33:ALA:O	26:D4:34:ASN:HB3	2.17	0.45
34:SR:232:TYR:CE1	34:SR:234:LEU:HD11	2.52	0.45
34:SR:265:LEU:HA	34:SR:268:GLN:HG2	1.99	0.45
36:1:8:C:H2'	36:1:9:U:O4'	2.17	0.45
36:1:31:C:H2'	36:1:32:U:O4'	2.17	0.45
36:1:215:G:O2'	36:1:216:G:H5'	2.17	0.45
36:1:337:G:OP2	41:L4:196:ASN:ND2	2.50	0.45
36:1:600:G:O6	87:1:3636:OHX:N1	2.50	0.45
36:1:622:A:C5	36:1:623:U:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1003:A:C5	36:1:1004:U:C5	3.04	0.45
36:1:1413:G:H2'	36:1:1414:G:H8	1.80	0.45
36:1:1517:G:H2'	36:1:1518:U:C6	2.52	0.45
36:1:2127:U:O4	36:1:2128:C:N4	2.50	0.45
36:1:2376:G:O2'	36:1:2377:G:H5'	2.17	0.45
36:1:2541:U:H1'	36:1:2542:U:OP2	2.17	0.45
36:1:3210:A:H2'	36:1:3211:C:C6	2.52	0.45
37:3:52:G:N2	37:3:53:U:C2	2.85	0.45
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.31	0.45
40:L3:150:ARG:HH11	40:L3:150:ARG:CG	2.30	0.45
41:L4:125:ALA:O	41:L4:129:THR:HG23	2.17	0.45
42:L5:96:ALA:HB1	42:L5:199:ILE:O	2.17	0.45
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.52	0.45
51:M5:16:SER:O	51:M5:20:ARG:HG2	2.17	0.45
53:M7:62:ARG:HG2	53:M7:63:PHE:CE1	2.52	0.45
55:M9:96:ILE:O	55:M9:100:ARG:HG3	2.16	0.45
66:O0:13:LYS:NZ	66:O0:99:ASP:OD2	2.44	0.45
69:O3:13:HIS:HB3	69:O3:93:THR:O	2.17	0.45
76:Q0:90:ASN:N	76:Q0:90:ASN:OD1	2.48	0.45
80:6:591:A:H2'	80:6:592:A:C8	2.52	0.45
80:6:696:C:H3'	80:6:697:C:H5'	1.99	0.45
80:6:779:U:C2	87:6:2056:OHX:N4	2.85	0.45
80:6:1092:A:C5	80:6:1094:G:C8	3.05	0.45
3:s1:130:SER:OG	3:s1:180:THR:HG22	2.16	0.45
3:s1:193:ILE:H	3:s1:193:ILE:HG12	1.52	0.45
6:s4:26:CYS:SG	11:s9:3:ARG:HG3	2.57	0.45
6:s4:213:SER:O	6:s4:214:LEU:HD12	2.17	0.45
7:s5:170:GLN:O	7:s5:173:ALA:HB3	2.16	0.45
8:s6:176:GLN:HG3	8:s6:177:ARG:N	2.30	0.45
11:s9:65:LYS:H	11:s9:70:LEU:HD21	1.81	0.45
81:c0:23:ALA:CB	81:c0:64:TYR:HB2	2.47	0.45
18:c6:24:ALA:HB2	18:c6:92:TYR:OH	2.17	0.45
18:c6:110:THR:HA	18:c6:113:ASP:HB2	1.99	0.45
26:d4:51:GLU:O	26:d4:52:LYS:C	2.60	0.45
30:d8:19:THR:CG2	30:d8:66:LEU:H	2.29	0.45
32:e0:20:LYS:HD2	32:e0:20:LYS:HA	1.69	0.45
34:sR:161:LYS:HE3	34:sR:162:ALA:H	1.81	0.45
34:sR:225:LEU:O	34:sR:228:LYS:HG3	2.17	0.45
36:5:291:C:P	51:m5:68:ARG:HH11	2.40	0.45
36:5:342:A:N1	36:5:349:A:O2'	2.46	0.45
36:5:1283:C:H5''	84:p0:81:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1640:G:C6	36:5:1641:U:C4	3.05	0.45
36:5:2140:U:H2'	36:5:2977:G:O2'	2.17	0.45
36:5:2166:A:H2'	36:5:2167:A:C8	2.52	0.45
36:5:2409:G:C6	36:5:2411:U:C4	3.05	0.45
36:5:2706:G:C6	36:5:2707:C:C4	3.05	0.45
36:5:2832:C:C2	36:5:2833:A:C8	3.04	0.45
36:5:2895:G:C2'	36:5:2896:A:H5''	2.38	0.45
36:5:3159:C:H2'	36:5:3160:U:H6	1.79	0.45
36:5:3306:U:H6	36:5:3306:U:O5'	1.99	0.45
38:8:103:G:C6	38:8:105:A:N6	2.85	0.45
39:12:204:MET:HE2	39:12:209:HIS:HB2	1.99	0.45
41:14:181:VAL:HG11	41:14:224:GLY:CA	2.47	0.45
45:18:108:ARG:O	45:18:108:ARG:HG2	2.16	0.45
47:m0:156:ARG:O	47:m0:158:LYS:N	2.50	0.45
53:m7:4:TYR:CZ	53:m7:18:ARG:HG3	2.51	0.45
55:m9:41:ILE:HD13	55:m9:41:ILE:HA	1.79	0.45
59:n3:34:LEU:HD23	59:n3:34:LEU:HA	1.72	0.45
61:n5:67:ILE:HG13	61:n5:85:GLN:H	1.81	0.45
1:2:263:C:H4'	1:2:292:U:H5'	1.99	0.45
1:2:319:U:OP2	1:2:319:U:H6	2.00	0.45
1:2:414:C:H2'	1:2:415:C:C6	2.51	0.45
1:2:575:C:H5'	35:SM:104:LYS:HB3	1.98	0.45
1:2:1166:A:H2'	1:2:1167:G:O4'	2.17	0.45
1:2:1526:A:H5''	1:2:1527:C:OP2	2.17	0.45
1:2:1644:C:N3	1:2:1645:G:N7	2.65	0.45
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.63	0.45
6:S4:100:ARG:HH21	6:S4:122:LYS:HA	1.82	0.45
9:S7:157:LYS:C	9:S7:159:VAL:H	2.24	0.45
11:S9:85:VAL:HG12	11:S9:99:LEU:HD11	1.98	0.45
11:S9:137:GLY:C	11:S9:139:GLN:H	2.24	0.45
16:C4:81:VAL:HG22	16:C4:115:ILE:CB	2.46	0.45
20:C8:90:ASN:O	20:C8:91:ASP:C	2.59	0.45
20:C8:108:LYS:HA	20:C8:111:ASP:HB2	1.99	0.45
25:D3:92:CYS:HG	25:D3:136:TRP:CD1	2.35	0.45
34:SR:201:THR:CB	34:SR:242:SER:HA	2.47	0.45
36:1:343:U:O2	41:L4:95:ARG:HD2	2.17	0.45
36:1:712:G:H2'	36:1:713:U:C6	2.51	0.45
36:1:976:U:H5'	54:M8:144:ARG:HH12	1.82	0.45
36:1:1747:G:O2'	74:O8:3:ARG:O	2.35	0.45
36:1:2363:A:C2	36:1:2376:G:C6	3.05	0.45
36:1:2554:A:N7	79:Q3:62:LYS:NZ	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2938:G:C2	36:1:2939:G:C8	3.04	0.45
36:1:3043:C:P	59:N3:48:ARG:HH22	2.39	0.45
36:1:3113:A:OP1	46:L9:73:SER:OG	2.35	0.45
39:L2:14:SER:C	39:L2:16:PHE:N	2.74	0.45
40:L3:139:GLN:C	40:L3:141:GLY:H	2.24	0.45
48:M1:89:TYR:HB3	48:M1:169:ALA:HB2	1.98	0.45
50:M4:21:VAL:HG23	50:M4:65:LEU:HA	1.99	0.45
50:M4:123:LEU:HA	50:M4:123:LEU:HD23	1.60	0.45
52:M6:47:PHE:CD1	52:M6:47:PHE:C	2.95	0.45
56:N0:30:PHE:CE2	56:N0:103:VAL:HG21	2.51	0.45
57:N1:96:ILE:HD12	57:N1:96:ILE:HA	1.74	0.45
64:N8:130:VAL:HG11	64:N8:145:VAL:HG21	1.98	0.45
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	1.98	0.45
80:6:42:G:C8	87:6:2082:OHX:N6	2.82	0.45
80:6:230:C:N4	80:6:235:G:H1	2.14	0.45
80:6:246:G:H1'	13:c1:40:LEU:HD13	1.99	0.45
80:6:647:G:H22	80:6:687:G:H1	1.65	0.45
80:6:727:U:O2'	80:6:728:U:H5'	2.17	0.45
80:6:955:A:H4'	80:6:1073:G:O2'	2.16	0.45
80:6:1321:A:H4'	80:6:1322:A:O5'	2.16	0.45
80:6:1334:U:H2'	80:6:1335:U:O4'	2.17	0.45
80:6:1383:G:O2'	22:d0:35:GLU:OE2	2.34	0.45
80:6:1425:A:C6	80:6:1426:C:N4	2.85	0.45
80:6:1458:G:H5''	80:6:1459:C:OP2	2.17	0.45
2:s0:163:ASN:C	2:s0:165:ARG:N	2.75	0.45
3:s1:35:PRO:HB3	3:s1:231:LEU:CD1	2.44	0.45
7:s5:143:ARG:NH1	7:s5:218:GLU:OE2	2.50	0.45
11:s9:114:TYR:HA	11:s9:119:ALA:HB3	1.99	0.45
17:c5:86:VAL:O	17:c5:89:MET:HG2	2.17	0.45
19:c7:30:THR:HG22	34:sR:127:ARG:HH22	1.81	0.45
23:d1:58:TYR:HH	24:d2:20:THR:HA	1.82	0.45
26:d4:12:VAL:HG22	26:d4:23:PHE:CB	2.47	0.45
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.98	0.45
34:sR:154:VAL:HG12	34:sR:171:SER:HB3	1.99	0.45
82:sM:77:THR:O	82:sM:79:SER:N	2.50	0.45
36:5:211:A:OP1	41:l4:220:ARG:NH1	2.47	0.45
36:5:421:G:O6	36:5:2383:C:O2'	2.27	0.45
36:5:945:C:H2'	36:5:946:U:C6	2.52	0.45
36:5:1129:A:N6	36:5:2864:A:O2'	2.50	0.45
36:5:1836:C:O2'	36:5:1842:A:N1	2.43	0.45
36:5:2612:U:O2'	36:5:2613:U:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2632:G:C5	36:5:2633:U:C5	3.05	0.45
36:5:2925:C:H2'	36:5:2926:A:O4'	2.16	0.45
37:7:31:U:O2'	37:7:32:U:H5'	2.16	0.45
39:12:45:VAL:HG22	39:12:84:THR:HA	1.99	0.45
39:12:70:ARG:NH1	39:12:72:ARG:HH21	2.15	0.45
40:13:92:TYR:O	40:13:156:SER:N	2.49	0.45
41:14:321:LYS:HA	41:14:324:LEU:HB3	1.99	0.45
42:15:155:THR:N	42:15:179:ARG:HH11	2.15	0.45
43:16:109:GLU:OE1	43:16:109:GLU:N	2.48	0.45
44:17:103:LEU:HD23	44:17:103:LEU:HA	1.70	0.45
47:m0:171:TRP:O	47:m0:174:THR:HG23	2.17	0.45
83:m2:47:UNK:O	83:m2:51:UNK:N	2.50	0.45
57:n1:7:TYR:CZ	57:n1:54:HIS:HB2	2.52	0.45
64:n8:133:LEU:HD22	64:n8:133:LEU:O	2.16	0.45
66:o0:7:GLN:CD	66:o0:9:SER:H	2.24	0.45
69:o3:49:ILE:CG2	69:o3:100:ILE:HG13	2.41	0.45
71:o5:36:LEU:O	71:o5:36:LEU:HD12	2.16	0.45
72:o6:91:ASN:O	72:o6:95:ALA:N	2.30	0.45
1:2:156:A:H2'	1:2:157:A:O4'	2.16	0.44
1:2:865:A:C4	1:2:866:G:C8	3.05	0.44
1:2:1277:G:O6	1:2:1278:G:C2	2.71	0.44
1:2:1594:G:C6	1:2:1595:U:N3	2.84	0.44
1:2:1796:C:H4'	1:2:1797:A:OP2	2.17	0.44
3:S1:62:LYS:C	3:S1:64:ARG:H	2.15	0.44
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.47	0.44
3:S1:133:TYR:CD1	3:S1:220:GLN:HA	2.52	0.44
6:S4:9:LEU:O	6:S4:27:TYR:HB3	2.17	0.44
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	2.00	0.44
10:S8:25:ARG:O	10:S8:28:GLU:HG2	2.18	0.44
10:S8:68:ALA:C	10:S8:70:GLU:H	2.25	0.44
13:C1:53:TYR:CD1	13:C1:53:TYR:C	2.95	0.44
20:C8:99:HIS:CD2	20:C8:101:LEU:HD21	2.52	0.44
23:D1:15:ARG:HB3	23:D1:16:LYS:H	1.67	0.44
24:D2:10:ALA:CB	24:D2:27:ILE:HD12	2.45	0.44
27:D5:41:ILE:HD12	27:D5:41:ILE:HA	1.89	0.44
34:SR:131:ILE:HB	34:SR:144:LEU:HB2	1.98	0.44
36:1:232:G:C2	36:1:233:C:C2	3.05	0.44
36:1:801:A:H4'	36:1:802:C:O5'	2.17	0.44
36:1:981:U:O2'	36:1:982:C:P	2.75	0.44
36:1:1240:A:H3'	36:1:1241:U:C5'	2.48	0.44
36:1:1675:G:H2'	36:1:1676:A:C8	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1786:G:H2'	36:1:1787:A:C8	2.52	0.44
36:1:1791:C:H2'	36:1:1792:C:C6	2.52	0.44
36:1:2176:U:O4	87:1:3740:OHX:N4	2.50	0.44
36:1:2397:A:H3'	36:1:2397:A:N3	2.32	0.44
36:1:2982:A:C2	36:1:2984:C:N4	2.84	0.44
36:1:3138:U:H2'	36:1:3139:A:H5''	1.99	0.44
36:1:3281:U:H2'	36:1:3282:U:C6	2.52	0.44
37:3:19:C:H2'	37:3:20:A:H8	1.81	0.44
37:3:27:A:P	42:L5:57:ASN:HD22	2.39	0.44
37:3:36:C:O2	37:3:45:A:H1'	2.16	0.44
40:L3:36:ASP:OD1	40:L3:38:SER:OG	2.36	0.44
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.32	0.44
41:L4:152:VAL:HG11	41:L4:156:LEU:HD12	1.98	0.44
47:M0:150:GLU:OE1	47:M0:154:ARG:NE	2.41	0.44
49:M3:124:ILE:HD11	49:M3:126:PHE:HE1	1.82	0.44
55:M9:90:PRO:O	55:M9:93:VAL:N	2.50	0.44
61:N5:113:LEU:C	61:N5:113:LEU:HD12	2.42	0.44
64:N8:93:SER:O	64:N8:93:SER:OG	2.29	0.44
67:O1:36:ILE:HD12	67:O1:59:ILE:HD11	1.99	0.44
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	1.99	0.44
79:Q3:36:ARG:HG3	79:Q3:48:LYS:HG3	1.98	0.44
80:6:336:G:H5'	13:c1:130:PRO:O	2.17	0.44
80:6:689:G:N7	87:6:2094:OHX:N1	2.64	0.44
80:6:922:G:H2'	80:6:923:A:H8	1.82	0.44
80:6:1390:U:O2'	80:6:1391:A:N7	2.49	0.44
80:6:1596:C:OP1	31:d9:16:LYS:HE2	2.16	0.44
80:6:1681:A:H8	8:s6:65:GLN:HG3	1.83	0.44
3:s1:67:GLU:OE1	3:s1:83:LYS:HE2	2.17	0.44
3:s1:131:ASP:CG	3:s1:180:THR:HB	2.43	0.44
4:s2:108:ASN:ND2	4:s2:108:ASN:O	2.50	0.44
11:s9:145:SER:O	11:s9:146:PHE:C	2.60	0.44
11:s9:161:THR:O	11:s9:162:SER:OG	2.26	0.44
11:s9:176:ASN:O	11:s9:179:ARG:HG3	2.17	0.44
14:c2:63:VAL:HG13	14:c2:64:SER:N	2.31	0.44
15:c3:20:ARG:HH11	15:c3:20:ARG:CG	2.30	0.44
16:c4:13:VAL:HG21	16:c4:75:GLY:O	2.17	0.44
22:d0:57:ARG:HD2	22:d0:89:ARG:NH1	2.33	0.44
23:d1:78:LEU:O	23:d1:79:LEU:HD23	2.16	0.44
25:d3:68:ILE:HB	25:d3:70:LYS:HZ1	1.82	0.44
25:d3:76:LEU:HD23	25:d3:76:LEU:HA	1.74	0.44
34:sR:260:ILE:HB	34:sR:274:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:294:U:H4'	72:o6:77:LEU:HD23	1.98	0.44
36:5:409:A:H61	38:8:15:G:H1'	1.82	0.44
36:5:1121:U:C4	36:5:1122:U:C4	3.05	0.44
36:5:1139:G:O3'	44:l7:94:LYS:HA	2.17	0.44
36:5:1161:G:OP2	36:5:1365:G:O2'	2.24	0.44
36:5:1313:G:N3	36:5:1318:A:H2	2.15	0.44
36:5:2148:U:H2'	36:5:2149:A:C5	2.52	0.44
36:5:2183:A:H1'	39:l2:238:ILE:HD11	1.99	0.44
36:5:2204:C:H4'	36:5:2205:U:OP1	2.17	0.44
36:5:3214:U:C4	50:m4:121:MET:HG3	2.51	0.44
37:7:64:A:C8	47:m0:206:LEU:HD13	2.52	0.44
39:l2:43:GLY:N	39:l2:88:ILE:O	2.50	0.44
40:l3:261:MET:SD	52:m6:64:PHE:HA	2.57	0.44
42:l5:20:PHE:O	42:l5:23:ARG:HB3	2.17	0.44
42:l5:160:PHE:O	42:l5:163:LEU:HB3	2.16	0.44
43:l6:78:ARG:HH11	43:l6:78:ARG:CG	2.28	0.44
46:l9:52:LEU:HD23	46:l9:53:ILE:N	2.32	0.44
46:l9:86:TYR:CD2	46:l9:151:VAL:HG13	2.51	0.44
46:l9:91:ARG:HA	46:l9:91:ARG:HD2	1.40	0.44
50:m4:46:ILE:HD13	50:m4:58:ILE:HG21	1.98	0.44
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.99	0.44
61:n5:73:MET:HE1	61:n5:141:TYR:HE1	1.82	0.44
64:n8:60:TYR:CD2	64:n8:63:LYS:HD2	2.52	0.44
64:n8:132:LYS:O	64:n8:136:GLU:HG3	2.16	0.44
72:o6:51:SER:O	72:o6:55:ARG:HG3	2.17	0.44
1:2:246:G:N2	13:C1:38:ALA:O	2.48	0.44
1:2:711:U:H4'	1:2:712:G:OP1	2.17	0.44
1:2:748:U:H2'	1:2:749:U:H6	1.83	0.44
1:2:778:G:H22	26:D4:10:ARG:NH2	2.14	0.44
1:2:889:U:H2'	1:2:890:C:O4'	2.17	0.44
1:2:973:A:H2'	1:2:974:A:H8	1.82	0.44
1:2:1799:C:H2'	1:2:1800:U:C6	2.52	0.44
2:S0:29:VAL:HG13	2:S0:150:ASP:HB3	1.99	0.44
3:S1:58:SER:O	3:S1:62:LYS:HG3	2.17	0.44
3:S1:193:ILE:H	3:S1:193:ILE:HG12	1.58	0.44
6:S4:73:ASP:OD1	6:S4:89:VAL:N	2.49	0.44
9:S7:37:GLU:HG2	9:S7:37:GLU:H	1.37	0.44
11:S9:42:ILE:O	11:S9:46:SER:OG	2.35	0.44
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.47	0.44
20:C8:28:ILE:HG23	20:C8:29:VAL:H	1.81	0.44
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:108:GLY:O	25:D3:109:ARG:HG2	2.17	0.44
28:D6:10:ARG:HB3	28:D6:34:LYS:HA	1.98	0.44
28:D6:97:PRO:N	28:D6:98:PRO:HD2	2.32	0.44
29:D7:62:ILE:HG13	29:D7:63:LEU:H	1.82	0.44
33:E1:98:VAL:HB	33:E1:99:LYS:H	1.42	0.44
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	1.99	0.44
35:SM:51:ARG:O	35:SM:52:PRO:C	2.59	0.44
36:1:81:C:H2'	36:1:82:C:C6	2.52	0.44
36:1:249:U:H1'	36:1:250:U:C2	2.51	0.44
36:1:691:A:OP1	41:L4:46:LYS:HE3	2.17	0.44
36:1:915:A:N3	36:1:915:A:H2'	2.32	0.44
36:1:1201:C:C6	36:1:1201:C:H3'	2.53	0.44
36:1:1394:A:H2'	36:1:1395:G:O4'	2.18	0.44
36:1:1455:U:O2'	67:O1:26:LYS:NZ	2.50	0.44
36:1:1815:U:HO2'	36:1:1816:A:P	2.38	0.44
36:1:1821:U:N3	70:O4:67:LYS:HD3	2.32	0.44
36:1:2101:C:O2'	36:1:2102:U:O5'	2.32	0.44
36:1:2104:A:H2'	36:1:2105:G:H8	1.81	0.44
36:1:2420:C:C4	36:1:2421:U:C5	3.05	0.44
36:1:2972:G:N7	87:1:3638:OHX:N6	2.65	0.44
36:1:3276:G:N2	69:O3:60:ARG:HH22	2.06	0.44
37:3:119:U:OP1	42:L5:256:THR:HG23	2.16	0.44
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.98	0.44
44:L7:221:LYS:HB2	44:L7:227:GLY:HA3	1.98	0.44
47:M0:50:VAL:O	47:M0:138:VAL:HG23	2.17	0.44
48:M1:59:ILE:CG2	48:M1:65:ILE:HD11	2.47	0.44
52:M6:80:PHE:HD2	52:M6:104:VAL:HG11	1.82	0.44
52:M6:178:VAL:O	52:M6:182:ASN:HB2	2.17	0.44
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.16	0.44
54:M8:165:ILE:HD11	54:M8:172:PHE:HB3	1.98	0.44
57:N1:12:ARG:HD3	57:N1:13:TYR:CE1	2.52	0.44
63:N7:26:VAL:HA	63:N7:89:VAL:HG21	1.99	0.44
66:O0:100:ILE:HD12	66:O0:101:LEU:HD23	1.97	0.44
69:O3:49:ILE:HD11	69:O3:71:VAL:HG23	1.99	0.44
70:O4:99:LYS:HG2	70:O4:103:LYS:HE3	1.98	0.44
71:O5:38:ARG:HH11	71:O5:41:LEU:CD2	2.30	0.44
76:Q0:93:LYS:HA	76:Q0:105:PRO:HB3	1.99	0.44
80:6:90:C:C2	80:6:91:G:C8	3.06	0.44
80:6:139:C:C4	80:6:266:A:C2	3.05	0.44
80:6:506:A:H3'	80:6:506:A:P	2.57	0.44
80:6:567:A:N1	80:6:583:C:H1'	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:720:G:H5'	80:6:720:G:N3	2.31	0.44
80:6:1719:A:N6	80:6:1720:G:C2	2.86	0.44
80:6:1796:C:OP1	28:d6:87:ARG:HD3	2.17	0.44
4:s2:139:ILE:HD11	4:s2:218:ILE:HB	2.00	0.44
6:s4:134:LYS:O	6:s4:136:VAL:N	2.50	0.44
6:s4:170:THR:O	6:s4:170:THR:OG1	2.32	0.44
7:s5:41:LYS:HE2	7:s5:41:LYS:HB3	1.48	0.44
8:s6:68:LEU:HD13	8:s6:68:LEU:HA	1.72	0.44
9:s7:84:LYS:HD3	9:s7:84:LYS:HA	1.67	0.44
15:c3:65:VAL:C	15:c3:66:ILE:HG23	2.42	0.44
24:d2:79:PHE:O	24:d2:124:LYS:HA	2.16	0.44
27:d5:103:ARG:HG2	27:d5:104:ALA:H	1.82	0.44
36:5:420:G:OP2	36:5:420:G:O5'	2.31	0.44
36:5:678:G:C5	36:5:679:U:C5	3.05	0.44
36:5:901:G:H2'	36:5:902:G:H8	1.82	0.44
36:5:1213:G:OP1	56:n0:137:ARG:NH1	2.48	0.44
36:5:1439:U:H2'	36:5:1440:G:O4'	2.17	0.44
36:5:1507:G:H1'	53:m7:139:TYR:CE1	2.51	0.44
36:5:1648:A:H2'	36:5:1649:U:O4'	2.17	0.44
36:5:1760:A:N3	36:5:1766:G:C2	2.85	0.44
36:5:2386:A:OP1	87:5:3521:OHX:N2	2.50	0.44
36:5:2983:C:O2'	36:5:2984:C:H5'	2.17	0.44
36:5:3123:A:OP2	87:5:3782:OHX:N5	2.51	0.44
36:5:3200:G:O6	87:5:3649:OHX:N5	2.50	0.44
39:l2:149:ARG:HH21	39:l2:155:LYS:HD2	1.82	0.44
40:l3:198:HIS:O	40:l3:201:LYS:HB2	2.17	0.44
42:l5:99:TYR:CE2	42:l5:199:ILE:HD13	2.52	0.44
42:l5:122:VAL:C	42:l5:124:GLU:H	2.19	0.44
42:l5:129:TYR:CG	42:l5:177:GLU:HG3	2.52	0.44
45:l8:230:LYS:O	45:l8:230:LYS:HG3	2.16	0.44
46:l9:153:ASP:O	46:l9:157:ASN:HB2	2.18	0.44
83:m2:63:UNK:HA	83:m2:71:UNK:O	2.17	0.44
49:m3:59:ARG:HE	49:m3:69:VAL:HG23	1.81	0.44
59:n3:32:ARG:HG3	59:n3:32:ARG:HH11	1.82	0.44
61:n5:135:ILE:O	61:n5:139:ILE:HG13	2.17	0.44
63:n7:72:ILE:HD13	63:n7:72:ILE:H	1.83	0.44
66:o0:66:LYS:HD2	66:o0:66:LYS:N	2.29	0.44
67:o1:19:ARG:HD3	67:o1:35:GLU:OE2	2.17	0.44
67:o1:57:GLN:HE21	67:o1:57:GLN:HB3	1.50	0.44
78:q2:74:CYS:HB3	78:q2:77:CYS:SG	2.58	0.44
1:2:95:G:O2'	1:2:460:A:O2'	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:545:A:N6	1:2:594:A:O4'	2.51	0.44
1:2:734:A:H4'	1:2:735:C:H5'	1.97	0.44
1:2:1477:G:O2'	21:C9:47:PRO:HA	2.17	0.44
1:2:1731:A:H5''	1:2:1732:A:OP2	2.17	0.44
5:S3:35:SER:HB3	5:S3:51:ARG:O	2.18	0.44
6:S4:62:LYS:HE2	6:S4:62:LYS:HB2	1.68	0.44
7:S5:46:TRP:CD1	7:S5:129:PRO:HD2	2.52	0.44
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.32	0.44
9:S7:130:VAL:HG22	9:S7:162:ILE:HD12	2.00	0.44
12:C0:12:HIS:CD2	12:C0:79:TYR:CD2	3.03	0.44
12:C0:14:TYR:CD2	12:C0:14:TYR:C	2.95	0.44
12:C0:29:GLN:HB3	12:C0:39:ASN:HB2	2.00	0.44
13:C1:54:ILE:HG22	13:C1:55:ASP:N	2.33	0.44
18:C6:14:LYS:HB2	18:C6:76:SER:OG	2.17	0.44
18:C6:109:PHE:HB3	18:C6:117:LEU:HD21	1.99	0.44
23:D1:35:ASN:HB3	23:D1:50:TYR:CD1	2.52	0.44
24:D2:24:GLN:NE2	29:D7:5:GLN:HG3	2.33	0.44
26:D4:113:ASN:O	26:D4:116:LYS:HB2	2.17	0.44
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.88	0.44
30:D8:38:ARG:NH1	30:D8:40:ILE:HD11	2.31	0.44
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	2.00	0.44
36:1:199:A:C4	36:1:201:A:C8	3.05	0.44
36:1:266:A:P	51:M5:5:LYS:HZ1	2.40	0.44
36:1:921:A:OP1	36:1:921:A:H3'	2.18	0.44
36:1:1095:U:N3	57:N1:127:GLN:HG2	2.32	0.44
36:1:1095:U:C2	57:N1:127:GLN:HG2	2.52	0.44
36:1:2376:G:C6	36:1:2377:G:C6	3.05	0.44
36:1:2794:G:C2	36:1:2795:U:C2	3.05	0.44
36:1:2930:A:H2'	36:1:2931:C:C6	2.53	0.44
36:1:3166:C:N3	36:1:3284:G:N2	2.51	0.44
38:4:93:U:H2'	38:4:94:C:O4'	2.18	0.44
38:4:109:A:C2	38:4:114:G:C6	3.05	0.44
39:L2:136:ILE:HG21	39:L2:139:HIS:CE1	2.52	0.44
39:L2:206:PRO:HG3	39:L2:213:GLY:HA3	1.99	0.44
40:L3:85:VAL:HG22	40:L3:87:VAL:HG13	1.99	0.44
40:L3:261:MET:HG2	52:M6:64:PHE:HB3	1.99	0.44
41:L4:62:ALA:HB3	41:L4:90:PHE:CE2	2.51	0.44
44:L7:174:GLY:O	44:L7:175:LYS:C	2.59	0.44
45:L8:84:ARG:H	45:L8:84:ARG:HE	1.65	0.44
47:M0:188:GLY:HA3	47:M0:216:TYR:HD1	1.82	0.44
51:M5:58:GLY:HA3	51:M5:142:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:89:LYS:HA	53:M7:92:GLN:HG2	1.99	0.44
56:N0:71:LYS:HD3	56:N0:72:VAL:O	2.17	0.44
57:N1:83:ARG:HH11	57:N1:85:LEU:HD21	1.82	0.44
59:N3:93:LEU:HB2	60:N4:20:LEU:HD22	2.00	0.44
60:N4:39:LEU:HA	60:N4:39:LEU:HD12	1.64	0.44
68:O2:71:HIS:HB3	68:O2:93:ALA:N	2.31	0.44
80:6:18:C:C2	80:6:19:A:C8	3.05	0.44
80:6:158:U:O4	80:6:420:A:H4'	2.17	0.44
80:6:328:A:H2'	80:6:329:G:C8	2.52	0.44
80:6:388:G:C6	80:6:410:A:N1	2.85	0.44
80:6:427:C:H2'	80:6:428:A:O4'	2.17	0.44
80:6:780:A:H3'	80:6:781:U:H5'	1.98	0.44
80:6:1315:U:H2'	80:6:1316:G:O4'	2.17	0.44
80:6:1333:C:C4'	5:s3:162:GLN:HG3	2.48	0.44
80:6:1544:U:H5''	20:c8:132:ARG:CZ	2.47	0.44
3:s1:70:LEU:HA	3:s1:70:LEU:HD23	1.83	0.44
3:s1:134:VAL:HB	3:s1:219:LYS:H	1.81	0.44
6:s4:92:LEU:H	6:s4:92:LEU:HG	1.43	0.44
7:s5:158:GLN:HG2	30:d8:66:LEU:HD11	1.99	0.44
8:s6:21:GLU:HG3	8:s6:22:HIS:N	2.31	0.44
10:s8:89:GLU:HA	10:s8:92:ARG:NH1	2.32	0.44
10:s8:105:ASP:OD1	10:s8:106:ALA:N	2.50	0.44
11:s9:66:ASP:O	11:s9:69:ARG:N	2.51	0.44
14:c2:41:LEU:HD23	14:c2:41:LEU:HA	1.86	0.44
16:c4:42:VAL:CG1	16:c4:67:VAL:HG23	2.47	0.44
17:c5:127:ARG:HA	17:c5:127:ARG:HD2	1.75	0.44
20:c8:87:ASN:OD1	20:c8:99:HIS:HA	2.17	0.44
22:d0:67:THR:OG1	22:d0:68:ARG:N	2.49	0.44
26:d4:106:GLN:O	26:d4:110:GLN:HG3	2.17	0.44
27:d5:80:LEU:HD22	27:d5:101:TYR:CD2	2.52	0.44
36:5:200:C:H5'	36:5:221:A:C2	2.53	0.44
36:5:802:C:H2'	36:5:803:C:H6	1.82	0.44
36:5:997:A:O2'	37:7:79:A:N3	2.49	0.44
36:5:1073:U:H2'	36:5:1074:U:C6	2.52	0.44
36:5:1081:U:OP2	87:5:3655:OHX:N5	2.50	0.44
36:5:1375:G:N3	36:5:1407:A:H2	2.15	0.44
36:5:1606:U:C2	70:o4:8:ARG:NH1	2.85	0.44
36:5:1700:G:C5	36:5:1701:C:C4	3.05	0.44
36:5:2294:U:H2'	36:5:2296:A:OP2	2.18	0.44
36:5:2549:G:C8	36:5:2549:G:H5'	2.51	0.44
36:5:3269:U:H3'	36:5:3269:U:OP2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3288:G:O2'	36:5:3289:G:C8	2.69	0.44
37:7:64:A:N1	47:m0:202:LYS:HE3	2.33	0.44
40:l3:311:PHE:HB2	40:l3:315:GLY:O	2.17	0.44
41:l4:295:ILE:HG23	41:l4:299:ILE:HD11	1.98	0.44
43:l6:30:LEU:HD21	43:l6:57:HIS:NE2	2.32	0.44
46:l9:85:GLY:HA3	46:l9:187:ILE:HD12	1.99	0.44
49:m3:53:LEU:HD23	49:m3:53:LEU:HA	1.68	0.44
51:m5:175:ASN:H	51:m5:184:LYS:HB2	1.82	0.44
55:m9:151:ARG:O	55:m9:155:LEU:HG	2.17	0.44
58:n2:50:LEU:H	58:n2:50:LEU:HG	1.32	0.44
64:n8:14:HIS:ND1	64:n8:14:HIS:N	2.65	0.44
66:o0:10:ILE:HG12	66:o0:68:TYR:OH	2.17	0.44
69:o3:54:ARG:NH1	69:o3:64:ILE:HD11	2.32	0.44
1:2:288:A:H2'	1:2:289:U:C6	2.52	0.44
1:2:325:G:O2'	1:2:326:G:H5'	2.17	0.44
1:2:549:G:N3	1:2:550:A:C8	2.85	0.44
1:2:741:C:O2'	1:2:742:U:O4'	2.34	0.44
1:2:867:G:N2	1:2:868:G:H1'	2.33	0.44
1:2:986:G:OP2	39:L2:251:LYS:NZ	2.50	0.44
1:2:1202:A:N6	1:2:1457:C:H5''	2.32	0.44
1:2:1218:G:N2	1:2:1444:A:OP2	2.29	0.44
1:2:1270:G:N1	1:2:1271:G:C5	2.85	0.44
1:2:1291:G:H2'	1:2:1292:G:C8	2.53	0.44
1:2:1566:U:O2'	1:2:1567:U:H5'	2.17	0.44
1:2:1579:U:H4'	18:C6:140:LYS:O	2.18	0.44
1:2:1677:C:OP1	10:S8:42:ARG:NH1	2.50	0.44
2:S0:73:VAL:O	2:S0:95:ALA:HA	2.18	0.44
4:S2:35:TRP:CE2	4:S2:37:PRO:HB3	2.52	0.44
5:S3:21:LEU:HD22	5:S3:25:PHE:HE2	1.81	0.44
5:S3:98:ALA:HB2	5:S3:169:ASP:O	2.17	0.44
7:S5:116:HIS:NE2	27:D5:95:HIS:CE1	2.86	0.44
7:S5:158:GLN:HE21	30:D8:66:LEU:HD21	1.83	0.44
7:S5:213:LYS:HD3	7:S5:213:LYS:HA	1.83	0.44
10:S8:82:VAL:HG12	10:S8:196:LEU:HD11	1.99	0.44
10:S8:195:ARG:HD3	10:S8:195:ARG:HA	1.70	0.44
13:C1:80:MET:H	13:C1:80:MET:HG3	1.50	0.44
15:C3:130:ARG:HD3	15:C3:138:ASN:H	1.82	0.44
17:C5:115:TYR:N	17:C5:118:GLU:OE1	2.51	0.44
20:C8:129:TRP:HB3	35:SM:67:GLY:HA2	1.98	0.44
23:D1:3:ASN:O	23:D1:4:ASP:C	2.60	0.44
27:D5:59:TYR:CD2	27:D5:64:VAL:HG21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:E1:130:VAL:HG21	33:E1:143:LYS:HB3	1.99	0.44
35:SM:114:LYS:HE3	35:SM:114:LYS:HB2	1.61	0.44
36:1:80:G:H2'	36:1:81:C:H6	1.83	0.44
36:1:287:G:H5'	51:M5:179:LYS:O	2.18	0.44
36:1:290:G:H2'	36:1:291:C:C6	2.52	0.44
36:1:370:U:O4	36:1:371:G:C6	2.70	0.44
36:1:619:A:H4'	36:1:620:U:O4'	2.18	0.44
36:1:1941:C:O2'	36:1:1942:U:H5'	2.18	0.44
36:1:1948:G:C2	36:1:1949:G:C8	3.05	0.44
36:1:2154:U:H4'	39:L2:240:ALA:HB2	1.99	0.44
36:1:2590:A:C6	36:1:2591:A:C5	3.06	0.44
36:1:2694:A:H5''	36:1:2695:A:OP2	2.18	0.44
36:1:2853:A:H4'	47:M0:63:GLU:O	2.17	0.44
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.51	0.44
36:1:3121:U:H4'	36:1:3122:A:OP1	2.18	0.44
36:1:3382:U:H2'	36:1:3382:U:O2	2.17	0.44
37:3:40:C:O2	48:M1:72:ARG:NE	2.32	0.44
38:4:45:C:H4'	75:O9:11:GLN:OE1	2.17	0.44
38:4:56:G:C2	38:4:57:C:C2	3.05	0.44
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.42	0.44
41:L4:337:GLU:O	41:L4:339:LEU:N	2.48	0.44
42:L5:41:LYS:HA	42:L5:41:LYS:HD2	1.45	0.44
44:L7:180:SER:O	44:L7:183:ASP:HB2	2.17	0.44
46:L9:16:VAL:HA	46:L9:28:VAL:O	2.17	0.44
46:L9:150:SER:CB	46:L9:153:ASP:HB2	2.46	0.44
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.52	0.44
50:M4:88:ALA:O	50:M4:93:LYS:NZ	2.39	0.44
51:M5:135:VAL:HG13	51:M5:142:ILE:HG12	2.00	0.44
55:M9:44:LEU:HD12	55:M9:49:THR:CB	2.48	0.44
69:O3:60:ARG:NH2	69:O3:60:ARG:HB2	2.32	0.44
69:O3:71:VAL:HG13	69:O3:81:VAL:HG13	1.98	0.44
69:O3:73:ARG:HD3	69:O3:82:ARG:HD2	1.99	0.44
76:Q0:103:LEU:HD23	76:Q0:103:LEU:HA	1.67	0.44
79:Q3:22:LEU:HD23	79:Q3:22:LEU:HA	1.71	0.44
80:6:246:G:C6	80:6:247:A:C6	3.05	0.44
80:6:482:U:H3	80:6:505:A:H61	1.63	0.44
80:6:577:G:H3'	80:6:577:G:C8	2.53	0.44
80:6:1424:A:H2'	80:6:1425:A:O4'	2.18	0.44
80:6:1596:C:P	31:d9:19:ARG:HH12	2.40	0.44
80:6:1699:G:C2'	80:6:1700:C:H5'	2.48	0.44
80:6:1755:A:C2'	80:6:1756[A]:A:O5'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1758:U:H1'	36:5:2255:A:N3	2.32	0.44
2:s0:84:ARG:HD3	2:s0:203:PHE:O	2.17	0.44
4:s2:81:MET:O	4:s2:82:ASN:HB2	2.16	0.44
7:s5:45:LYS:HA	7:s5:45:LYS:HD3	1.73	0.44
9:s7:7:LYS:C	9:s7:9:LEU:H	2.26	0.44
9:s7:129:LEU:HD22	9:s7:169:PHE:CD1	2.52	0.44
14:c2:50:LYS:O	14:c2:54:ARG:HG2	2.18	0.44
14:c2:88:LEU:O	14:c2:89:ILE:HB	2.18	0.44
25:d3:3:LYS:HG2	25:d3:5:LYS:HE2	1.99	0.44
26:d4:20:ARG:HB3	26:d4:76:TYR:CD2	2.52	0.44
33:e1:88:PRO:HB2	33:e1:89:LYS:HD3	2.00	0.44
34:sR:127:ARG:HD3	34:sR:150:TRP:CE2	2.52	0.44
36:5:98:G:N7	49:m3:13:HIS:NE2	2.57	0.44
36:5:99:A:H5'	51:m5:194:GLN:OE1	2.17	0.44
36:5:281:G:C6	36:5:282:G:C6	3.05	0.44
36:5:620:U:OP2	36:5:620:U:C6	2.71	0.44
36:5:821:U:H2'	36:5:822:G:C8	2.52	0.44
36:5:1389:G:OP1	68:o2:101:SER:HB3	2.17	0.44
36:5:1514:G:C6	36:5:1841:A:C5	3.05	0.44
36:5:1598:G:O2'	36:5:1599:G:H5'	2.18	0.44
36:5:1674:G:N1	36:5:1774:C:N3	2.65	0.44
36:5:1794:G:C6	39:l2:187:HIS:CE1	3.06	0.44
36:5:2121:G:C2'	36:5:2122:G:O5'	2.64	0.44
36:5:2714:G:N2	36:5:2742:C:H1'	2.32	0.44
36:5:2813:A:C6	36:5:2814:G:C5	3.06	0.44
36:5:3238:G:H8	36:5:3238:G:H5''	1.82	0.44
36:5:3269:U:H4'	36:5:3270:U:O5'	2.17	0.44
37:7:106:U:H2'	37:7:107:C:H6	1.82	0.44
39:l2:3:ARG:HB2	39:l2:207:VAL:HG22	1.99	0.44
39:l2:132:ASN:HD22	39:l2:151:PRO:CB	2.30	0.44
40:l3:227:GLU:HG3	40:l3:270:ARG:CD	2.48	0.44
42:l5:211:LEU:O	42:l5:215:ASP:N	2.44	0.44
45:l8:34:PHE:CE1	45:l8:42:PRO:HG3	2.53	0.44
54:m8:65:SER:HB3	54:m8:93:ILE:HG13	1.98	0.44
55:m9:4:LEU:O	55:m9:7:GLN:HG2	2.18	0.44
55:m9:90:PRO:HG2	55:m9:93:VAL:CG2	2.47	0.44
59:n3:93:LEU:HA	60:n4:20:LEU:O	2.17	0.44
64:n8:9:ARG:HE	64:n8:9:ARG:HB3	1.41	0.44
70:o4:95:ILE:O	70:o4:99:LYS:N	2.47	0.44
84:p0:196:VAL:O	84:p0:196:VAL:HG13	2.17	0.44
1:2:463:U:O2'	1:2:527:A:N1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:514:G:H1	1:2:543:C:H5	1.58	0.44
1:2:1003:A:O2'	1:2:1005:A:N7	2.37	0.44
1:2:1079:U:C4	1:2:1080:U:C4	3.05	0.44
1:2:1147:A:C6	1:2:1148:C:C4	3.06	0.44
1:2:1175:U:H2'	1:2:1176:G:C8	2.52	0.44
5:S3:113:LEU:HD22	5:S3:117:ARG:HD2	1.99	0.44
7:S5:121:ILE:HA	7:S5:199:ILE:HD11	1.98	0.44
9:S7:99:LEU:HD12	9:S7:116:ARG:HG2	1.99	0.44
9:S7:140:VAL:HB	24:D2:52:TYR:HB3	1.99	0.44
11:S9:149:ARG:H	11:S9:149:ARG:HG2	1.47	0.44
12:C0:11:ILE:HD13	12:C0:35:ILE:HG21	2.00	0.44
14:C2:29:LYS:HE2	14:C2:100:TRP:NE1	2.32	0.44
16:C4:24:ASN:O	16:C4:54:GLU:HB3	2.18	0.44
16:C4:48:VAL:HG22	16:C4:49:LYS:H	1.83	0.44
17:C5:33:PHE:HA	17:C5:36:LEU:HD23	2.00	0.44
21:C9:33:TYR:O	21:C9:36:ILE:HG12	2.18	0.44
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.82	0.44
25:D3:51:GLY:HA3	25:D3:74:VAL:HG12	2.00	0.44
33:E1:149:LYS:HE2	33:E1:149:LYS:HB2	1.73	0.44
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.47	0.44
36:1:196:G:N1	36:1:199:A:OP2	2.51	0.44
36:1:221:A:C2	36:1:224:C:C5	3.05	0.44
36:1:284:A:OP2	78:Q2:41:ARG:HD2	2.17	0.44
36:1:299:G:N7	87:1:3621:OHX:N2	2.66	0.44
36:1:713:U:O2'	36:1:754:G:OP1	2.33	0.44
36:1:742:G:OP1	87:1:3777:OHX:N1	2.51	0.44
36:1:743:C:N3	54:M8:141:ARG:NH1	2.66	0.44
36:1:805:G:H1'	41:L4:73:ARG:HH11	1.83	0.44
36:1:908:G:H4'	36:1:909:G:O5'	2.18	0.44
36:1:974:G:H5'	54:M8:16:ARG:HG3	1.99	0.44
36:1:1055:A:H2'	36:1:1056:U:O4'	2.17	0.44
36:1:1081:U:P	87:1:3742:OHX:N6	2.91	0.44
36:1:1123:U:H2'	36:1:1124:U:H5'	2.00	0.44
36:1:1225:A:H1'	36:1:3116:G:N2	2.31	0.44
36:1:1307:G:C2	36:1:1308:A:C2	3.06	0.44
36:1:2117:A:N7	36:1:3064:U:O2'	2.40	0.44
36:1:2443:A:O2'	36:1:2444:C:H5'	2.17	0.44
36:1:2507:C:OP2	36:1:2507:C:H6	2.00	0.44
36:1:2952:G:H21	86:A:3403:8AN:C2	2.30	0.44
36:1:3249:C:O5'	36:1:3249:C:H6	2.01	0.44
38:4:84:C:O3'	62:N6:113:LYS:HE2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:117:ARG:NH2	40:L3:175:LYS:O	2.50	0.44
40:L3:265:ALA:C	40:L3:266:ARG:HG2	2.42	0.44
43:L6:129:GLU:CD	43:L6:130:ILE:N	2.76	0.44
45:L8:210:ALA:O	45:L8:214:LEU:HD13	2.18	0.44
47:M0:10:ARG:HG2	47:M0:11:TYR:CE1	2.53	0.44
49:M3:54:LEU:HD22	49:M3:55:ARG:H	1.82	0.44
53:M7:36:ILE:O	53:M7:37:ASN:C	2.60	0.44
55:M9:114:LYS:HE2	55:M9:114:LYS:HB3	1.78	0.44
58:N2:19:VAL:O	58:N2:22:PRO:HD2	2.18	0.44
62:N6:34:PRO:HA	62:N6:47:ALA:CB	2.48	0.44
78:Q2:23:HIS:HA	78:Q2:73:GLU:O	2.18	0.44
79:Q3:49:ARG:HD3	79:Q3:50:GLY:H	1.83	0.44
80:6:29:U:H2'	80:6:30:G:H8	1.82	0.44
80:6:138:A:H62	80:6:266:A:H61	1.60	0.44
80:6:143:G:C4	80:6:173:A:C2	3.05	0.44
80:6:511:A:H2'	80:6:512:A:H5'	1.99	0.44
80:6:913:G:O4'	80:6:913:G:N3	2.50	0.44
80:6:998:A:N1	80:6:1006:C:N4	2.66	0.44
80:6:1045:C:H2'	80:6:1046:G:C8	2.53	0.44
80:6:1230:A:H2	80:6:1255:G:N2	2.15	0.44
80:6:1263:G:C2	80:6:1264:G:H1'	2.53	0.44
80:6:1267:G:H2'	80:6:1268:G:H8	1.83	0.44
80:6:1270:G:O2'	33:e1:79:LYS:HB2	2.17	0.44
80:6:1604:U:C4	80:6:1605:G:N7	2.86	0.44
80:6:1795:U:C5'	28:d6:79:ILE:HD11	2.47	0.44
2:s0:60:ALA:CB	2:s0:160:ILE:HD11	2.47	0.44
7:s5:200:ASN:HB2	7:s5:208:SER:HB3	2.00	0.44
81:c0:76:LEU:HA	81:c0:79:TYR:HB3	2.00	0.44
13:c1:58:CYS:SG	13:c1:60:PHE:O	2.74	0.44
15:c3:15:ALA:HB2	29:d7:20:LYS:HD3	2.00	0.44
18:c6:103:ASN:HA	18:c6:106:LYS:HB2	2.00	0.44
21:c9:131:ASP:O	21:c9:135:ILE:HG23	2.17	0.44
25:d3:91:GLY:O	25:d3:94:ASN:ND2	2.51	0.44
26:d4:112:LYS:NZ	26:d4:113:ASN:OD1	2.41	0.44
27:d5:74:SER:HA	27:d5:77:ARG:NH2	2.33	0.44
36:5:123:A:C6	36:5:150:A:N7	2.86	0.44
36:5:147:U:OP2	45:l8:196:ALA:HB3	2.18	0.44
36:5:173:G:H1'	36:5:174:C:H5'	1.99	0.44
36:5:317:A:N6	36:5:318:A:N6	2.65	0.44
36:5:337:G:N2	36:5:339:C:C2	2.86	0.44
36:5:412:G:H2'	36:5:413:U:H6	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:437:G:C5	87:5:3802:OHX:N6	2.85	0.44
36:5:748:U:H2'	36:5:749:C:C6	2.52	0.44
36:5:789:A:H2'	36:5:790:U:H6	1.80	0.44
36:5:1085:A:H5''	36:5:1085:A:C8	2.49	0.44
36:5:1659:U:O4	87:5:3720:OHX:N1	2.50	0.44
36:5:1668:G:H2'	36:5:1669:C:O4'	2.17	0.44
36:5:1909:A:O2'	36:5:1910:A:H5'	2.17	0.44
36:5:2181:C:H2'	36:5:2182:A:O4'	2.16	0.44
36:5:2681:U:C2'	36:5:2682:C:H5'	2.47	0.44
36:5:2823:G:N7	87:5:3454:OHX:N2	2.65	0.44
39:12:4:VAL:HG13	39:12:8:GLN:HB2	2.00	0.44
42:15:131:LEU:HD13	42:15:131:LEU:HA	1.66	0.44
44:17:158:LYS:HD2	44:17:158:LYS:C	2.42	0.44
45:18:226:TYR:HD2	45:18:227:ASP:OD1	1.99	0.44
47:m0:60:LEU:HD11	47:m0:129:VAL:HG21	1.99	0.44
47:m0:74:LYS:O	47:m0:78:THR:HG23	2.18	0.44
48:m1:82:ARG:NH1	48:m1:112:LEU:O	2.50	0.44
49:m3:76:THR:O	49:m3:80:VAL:HG23	2.18	0.44
50:m4:133:LYS:O	50:m4:136:ALA:HB3	2.18	0.44
51:m5:99:ARG:O	51:m5:102:ALA:HB3	2.17	0.44
55:m9:14:VAL:HG12	55:m9:15:VAL:N	2.32	0.44
68:o2:72:LYS:O	68:o2:92:TYR:HA	2.17	0.44
72:o6:51:SER:H	72:o6:54:GLU:HB2	1.82	0.44
1:2:72:A:C3'	1:2:73:U:H5''	2.48	0.44
1:2:158:U:O2'	1:2:160:C:OP2	2.29	0.44
1:2:239:C:H2'	1:2:240:U:H6	1.83	0.44
1:2:639:U:OP2	1:2:639:U:H4'	2.18	0.44
1:2:901:G:H2'	1:2:902:G:C8	2.52	0.44
1:2:1145:U:C4	1:2:1146:G:N7	2.86	0.44
2:S0:31:VAL:HG12	2:S0:33:GLN:N	2.32	0.44
3:S1:109:LYS:HG3	3:S1:113:MET:CE	2.48	0.44
3:S1:128:LYS:CE	3:S1:132:ASP:HB3	2.42	0.44
10:S8:85:PRO:O	13:C1:11:ARG:HD3	2.18	0.44
15:C3:115:LEU:O	15:C3:119:GLU:HG3	2.17	0.44
18:C6:39:VAL:HG12	18:C6:40:GLU:N	2.33	0.44
19:C7:47:ARG:NH1	19:C7:48:ASN:OD1	2.51	0.44
25:D3:66:SER:O	25:D3:66:SER:OG	2.32	0.44
25:D3:104:LEU:HD23	25:D3:104:LEU:HA	1.75	0.44
26:D4:61:ARG:O	26:D4:61:ARG:HG3	2.17	0.44
32:E0:53:LYS:HG3	32:E0:54:ARG:H	1.82	0.44
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:268:A:OP1	51:M5:47:LYS:NZ	2.41	0.44
36:1:289:A:C2	51:M5:93:LYS:HG3	2.52	0.44
36:1:1227:C:H6	36:1:1227:C:H5'	1.83	0.44
36:1:1464:G:O6	87:1:3476:OHX:N6	2.51	0.44
36:1:2162:U:C5	36:1:2163:C:C5	3.06	0.44
36:1:2416:U:C2	36:1:2805:G:C2	3.06	0.44
36:1:3279:A:N7	36:1:3280:U:C5	2.85	0.44
36:1:3333:G:N2	36:1:3369:G:O2'	2.51	0.44
40:L3:226:PHE:HD2	40:L3:227:GLU:N	2.16	0.44
42:L5:57:ASN:HA	42:L5:58:LYS:HZ2	1.83	0.44
46:L9:20:ILE:HA	46:L9:24:ILE:O	2.17	0.44
46:L9:111:PHE:CD1	46:L9:127:PRO:HA	2.53	0.44
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	2.00	0.44
47:M0:73:ASN:O	47:M0:77:THR:HG23	2.17	0.44
48:M1:12:LEU:HD12	48:M1:131:MET:HE2	1.99	0.44
48:M1:145:LYS:HB2	48:M1:145:LYS:HE2	1.76	0.44
52:M6:27:LEU:HD13	52:M6:98:ALA:O	2.18	0.44
54:M8:65:SER:HB3	54:M8:93:ILE:HG12	1.99	0.44
54:M8:133:LYS:HB2	54:M8:135:GLN:NE2	2.32	0.44
58:N2:100:THR:O	58:N2:101:ASN:HB2	2.18	0.44
59:N3:17:LEU:HD21	59:N3:98:ASN:CG	2.42	0.44
67:O1:90:PHE:CD2	67:O1:90:PHE:C	2.95	0.44
71:O5:4:VAL:CG1	71:O5:9:LEU:HD11	2.48	0.44
73:O7:73:ARG:HB3	73:O7:73:ARG:NH1	2.33	0.44
78:Q2:73:GLU:CD	78:Q2:80:ARG:HH21	2.24	0.44
80:6:75:U:HO2'	80:6:76:A:P	2.38	0.44
80:6:83:G:O6	87:6:2077:OHX:N4	2.50	0.44
80:6:272:U:O2'	60:n4:123:ARG:NH1	2.51	0.44
80:6:922:G:H2'	80:6:923:A:C8	2.52	0.44
80:6:1054:U:O4	87:6:2092:OHX:N3	2.51	0.44
80:6:1055:U:N3	80:6:1056:U:C5	2.85	0.44
80:6:1098:U:H3'	80:6:1099:U:C5'	2.48	0.44
80:6:1098:U:H3'	80:6:1099:U:H5'	2.00	0.44
80:6:1120:U:H2'	80:6:1121:C:C6	2.53	0.44
80:6:1354:G:H5'	80:6:1355:C:OP2	2.17	0.44
80:6:1672:G:O5'	80:6:1672:G:H8	2.01	0.44
7:s5:43:PHE:CG	7:s5:44:ASN:N	2.81	0.44
11:s9:30:LEU:HA	11:s9:30:LEU:HD23	1.46	0.44
18:c6:65:ILE:HG22	18:c6:67:VAL:HG23	1.99	0.44
18:c6:97:VAL:HG23	18:c6:98:ASP:H	1.76	0.44
23:d1:78:LEU:HD12	23:d1:78:LEU:HA	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:182:U:OP1	36:5:182:U:H4'	2.18	0.44
36:5:189:G:H3'	36:5:224:C:OP2	2.16	0.44
36:5:952:A:N3	36:5:1114:U:O2'	2.37	0.44
36:5:1004:U:C2	36:5:1005:G:C8	3.05	0.44
36:5:1024:G:H2'	36:5:1026:A:H8	1.82	0.44
36:5:1690:C:C4	36:5:1691:U:C4	3.05	0.44
36:5:1759:C:C4	36:5:1760:A:N7	2.85	0.44
36:5:1899:G:N3	36:5:2334:U:C5	2.85	0.44
36:5:2246:G:H2'	36:5:2247:G:O5'	2.18	0.44
36:5:2712:U:H2'	36:5:2713:U:C6	2.53	0.44
36:5:2980:U:H2'	36:5:2981:U:H6	1.83	0.44
38:8:83:C:H4'	38:8:85:G:N2	2.33	0.44
40:l3:287:LYS:HD2	40:l3:287:LYS:HA	1.61	0.44
41:l4:10:SER:C	41:l4:12:THR:N	2.72	0.44
41:l4:49:ALA:HA	41:l4:109:TRP:CZ2	2.52	0.44
47:m0:70:ILE:H	47:m0:70:ILE:HG13	1.63	0.44
48:m1:137:ARG:O	48:m1:141:ARG:HG2	2.18	0.44
48:m1:155:THR:O	48:m1:159:THR:HG23	2.18	0.44
49:m3:118:GLU:O	49:m3:118:GLU:HG3	2.15	0.44
52:m6:108:ILE:HD13	52:m6:108:ILE:HG21	1.69	0.44
53:m7:25:SER:O	53:m7:29:THR:HG23	2.18	0.44
55:m9:110:ARG:C	55:m9:112:ALA:H	2.25	0.44
55:m9:154:ALA:C	55:m9:156:ASN:H	2.26	0.44
61:n5:63:ILE:C	61:n5:63:ILE:HD13	2.42	0.44
68:o2:126:LEU:HD23	68:o2:126:LEU:HA	1.74	0.44
72:o6:33:ALA:O	72:o6:34:SER:CB	2.66	0.44
1:2:579:A:C8	5:S3:178:ARG:HD2	2.52	0.44
1:2:591:A:N6	1:2:592:A:N6	2.66	0.44
1:2:1070:C:O2'	1:2:1071:U:H5'	2.17	0.44
1:2:1418:G:C2	1:2:1419:G:C8	3.06	0.44
1:2:1550:A:C6	1:2:1562:G:C6	3.06	0.44
2:S0:63:ILE:HG23	23:D1:35:ASN:O	2.18	0.44
4:S2:225:LEU:HD23	4:S2:225:LEU:HA	1.59	0.44
6:S4:45:ILE:HD12	6:S4:61:VAL:HG21	2.00	0.44
6:S4:68:ARG:HB3	6:S4:76:VAL:HG11	2.00	0.44
16:C4:30:VAL:HG13	16:C4:39:ILE:O	2.17	0.44
16:C4:81:VAL:HG13	16:C4:115:ILE:HG21	2.00	0.44
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.46	0.44
30:D8:64:ARG:HA	30:D8:64:ARG:HD2	1.71	0.44
34:SR:11:GLY:O	34:SR:312:VAL:HG22	2.18	0.44
34:SR:112:SER:HB3	34:SR:154:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:302:PHE:CD1	34:SR:312:VAL:HG12	2.53	0.44
36:1:190:U:C4	36:1:224:C:O4'	2.70	0.44
36:1:959:C:H5'	36:1:960:U:O5'	2.18	0.44
36:1:1769:G:O6	87:1:3727:OHX:N4	2.51	0.44
36:1:1908:A:N6	36:1:1909:A:C6	2.86	0.44
36:1:2429:G:OP2	87:1:3524:OHX:N6	2.51	0.44
36:1:2768:U:OP2	87:1:3684:OHX:N6	2.51	0.44
36:1:3070:A:C5	36:1:3071:U:C5	3.06	0.44
36:1:3218:A:H5''	36:1:3219:G:C5	2.52	0.44
37:3:55:A:C5	48:M1:9:MET:HG2	2.53	0.44
38:4:132:G:C5	38:4:133:G:N7	2.86	0.44
41:L4:58:HIS:HD2	41:L4:98:ARG:HB2	1.83	0.44
41:L4:152:VAL:CG2	41:L4:172:VAL:HG21	2.47	0.44
43:L6:40:LEU:HD13	43:L6:84:VAL:CG1	2.44	0.44
44:L7:158:LYS:HB3	44:L7:158:LYS:HE2	1.61	0.44
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	2.52	0.44
46:L9:52:LEU:HD22	46:L9:53:ILE:N	2.33	0.44
48:M1:34:SER:O	48:M1:37:LEU:N	2.51	0.44
50:M4:5:SER:O	50:M4:6:ILE:HB	2.18	0.44
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	2.00	0.44
52:M6:14:HIS:CD2	52:M6:124:LEU:HD13	2.52	0.44
57:N1:57:TYR:OH	57:N1:87:LYS:HD3	2.18	0.44
70:O4:46:ASP:OD2	70:O4:84:CYS:HB3	2.17	0.44
80:6:189:C:C2'	80:6:190:C:H5'	2.47	0.44
80:6:196:G:N3	80:6:197:A:H1'	2.32	0.44
80:6:284:G:N7	8:s6:188:ARG:NH1	2.65	0.44
80:6:486:G:N7	80:6:488:G:C2	2.85	0.44
80:6:520:A:H2'	80:6:521:A:C8	2.53	0.44
80:6:568:G:O5'	25:d3:90:ASP:HA	2.18	0.44
80:6:754:A:N7	6:s4:187:ARG:NH2	2.66	0.44
80:6:762:A:C2	80:6:789:A:C8	3.05	0.44
80:6:765:G:N3	80:6:765:G:C2'	2.80	0.44
80:6:1042:G:C6	80:6:1043:A:N7	2.86	0.44
80:6:1119:G:H2'	80:6:1120:U:C6	2.52	0.44
80:6:1332:C:H4'	5:s3:203:PRO:HB2	1.99	0.44
80:6:1338:C:H1'	80:6:1410:A:C5	2.53	0.44
6:s4:100:ARG:HH12	6:s4:118:GLU:HG2	1.83	0.44
9:s7:166:LEU:HA	9:s7:166:LEU:HD12	1.66	0.44
11:s9:40:LYS:HB2	11:s9:40:LYS:HE3	1.69	0.44
13:c1:125:VAL:CG1	13:c1:137:PHE:HB3	2.45	0.44
14:c2:66:VAL:HG11	14:c2:71:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:21:ASN:O	15:c3:65:VAL:HG11	2.18	0.44
16:c4:58:TYR:O	16:c4:61:MET:N	2.51	0.44
17:c5:28:MET:HB2	17:c5:28:MET:HE3	1.69	0.44
17:c5:126:VAL:O	17:c5:127:ARG:HB2	2.17	0.44
36:5:21:G:H1	38:8:138:A:H61	1.64	0.44
36:5:528:U:O2'	36:5:529:A:H5'	2.18	0.44
36:5:1163:A:H2'	36:5:1164:G:C8	2.52	0.44
36:5:1171:G:P	44:l7:218:ARG:HH12	2.40	0.44
36:5:1301:A:OP1	36:5:1301:A:H8	1.99	0.44
36:5:1759:C:N3	36:5:1760:A:C8	2.86	0.44
36:5:2258:U:OP2	87:5:3449:OHX:N4	2.51	0.44
36:5:2406:C:H2'	36:5:2407:C:C6	2.52	0.44
36:5:2433:U:OP2	36:5:2434:U:O2'	2.34	0.44
36:5:2672:G:O2'	48:m1:95:ASN:O	2.30	0.44
36:5:2788:C:H2'	36:5:2789:U:C6	2.53	0.44
36:5:2850:G:O6	87:5:3554:OHX:N3	2.50	0.44
36:5:2896:A:H5'	36:5:2896:A:C8	2.51	0.44
36:5:3224:G:O6	87:5:3500:OHX:N5	2.51	0.44
38:8:85:G:H3'	38:8:85:G:H8	1.83	0.44
41:l4:128:ALA:HB1	41:l4:134:LEU:HD12	1.99	0.44
41:l4:193:LYS:HE3	41:l4:193:LYS:HB3	1.51	0.44
41:l4:361:HIS:CG	41:l4:362:ASP:N	2.79	0.44
44:l7:137:GLY:HA3	44:l7:236:ILE:HB	1.99	0.44
53:m7:94:LEU:CB	53:m7:148:LEU:HD21	2.47	0.44
54:m8:158:HIS:N	54:m8:186:VAL:HG12	2.23	0.44
55:m9:21:LYS:O	55:m9:53:LYS:N	2.46	0.44
55:m9:43:LYS:O	55:m9:47:ASN:HB2	2.18	0.44
62:n6:58:VAL:O	62:n6:64:LYS:HA	2.17	0.44
64:n8:82:ILE:HD11	64:n8:102:ILE:HG12	2.00	0.44
71:o5:31:LEU:O	71:o5:35:LYS:N	2.42	0.44
84:p0:198:PRO:C	84:p0:200:SER:H	2.25	0.44
1:2:11:A:C2'	1:2:12:U:H5'	2.48	0.44
1:2:223:U:H2'	1:2:224:C:C6	2.51	0.44
1:2:287:G:O2'	1:2:288:A:P	2.76	0.44
1:2:301:A:H8	1:2:301:A:O5'	2.00	0.44
1:2:330:G:N2	1:2:339:C:C2	2.86	0.44
1:2:808:U:O4	1:2:809:A:N6	2.50	0.44
1:2:1043:A:C6	1:2:1044:U:C4	3.06	0.44
1:2:1146:G:H2'	1:2:1147:A:C8	2.53	0.44
1:2:1215:C:C2	1:2:1216:C:C5	3.06	0.44
1:2:1294:G:C2	1:2:1322:A:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1595:U:H5	1:2:1596:C:C6	2.36	0.44
1:2:1642:G:H5'	77:Q1:1:MET:HB3	2.00	0.44
1:2:1662:G:O2'	1:2:1663:G:H5'	2.18	0.44
9:S7:133:THR:HG21	9:S7:162:ILE:HD11	2.00	0.44
11:S9:105:LEU:C	11:S9:107:ARG:N	2.73	0.44
11:S9:136:VAL:HA	11:S9:155:HIS:O	2.17	0.44
20:C8:11:PHE:CD2	20:C8:59:GLY:HA2	2.52	0.44
20:C8:78:HIS:C	20:C8:80:LYS:H	2.26	0.44
27:D5:70:LYS:HD3	27:D5:70:LYS:HA	1.78	0.44
28:D6:96:ALA:C	28:D6:98:PRO:HD2	2.43	0.44
30:D8:34:GLU:O	30:D8:35:ASP:HB2	2.18	0.44
36:1:48:A:C4	36:1:50:U:C4	3.06	0.44
36:1:83:U:H2'	36:1:84:U:O4'	2.16	0.44
36:1:600:G:N2	36:1:604:G:C6	2.86	0.44
36:1:637:C:H6	36:1:637:C:H2'	1.40	0.44
36:1:701:G:C5	36:1:702:C:C4	3.05	0.44
36:1:891:G:C5	36:1:892:U:C5	3.06	0.44
36:1:1110:U:H2'	36:1:1111:U:C6	2.52	0.44
36:1:1352:A:H1'	36:1:1353:U:O5'	2.17	0.44
36:1:1384:U:C2	36:1:1385:C:C5	3.05	0.44
36:1:2119:A:H8	36:1:2119:A:O5'	2.01	0.44
36:1:2261:G:H21	36:1:2262:A:H62	1.65	0.44
36:1:2338:C:H4'	59:N3:47:ASN:O	2.18	0.44
36:1:2876:C:O2'	86:A:3402:C:O2	2.34	0.44
37:3:26:C:H2'	37:3:57:G:N2	2.33	0.44
37:3:28:C:H1'	37:3:55:A:H61	1.82	0.44
42:L5:98:ALA:O	42:L5:99:TYR:C	2.61	0.44
46:L9:117:PHE:O	46:L9:118:LEU:C	2.61	0.44
47:M0:56:GLU:HB2	47:M0:58:GLU:HG2	1.99	0.44
47:M0:144:ASN:HD22	47:M0:144:ASN:HA	1.66	0.44
50:M4:113:THR:O	50:M4:114:ASP:C	2.59	0.44
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.17	0.44
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.31	0.44
55:M9:130:ASN:C	55:M9:132:PHE:N	2.76	0.44
56:N0:11:GLY:HA2	56:N0:59:VAL:HG23	1.99	0.44
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.53	0.44
63:N7:36:HIS:ND1	63:N7:74:VAL:HG11	2.33	0.44
63:N7:60:LYS:O	63:N7:64:LYS:HE2	2.18	0.44
64:N8:14:HIS:N	64:N8:14:HIS:ND1	2.65	0.44
65:N9:11:ASN:O	65:N9:15:LYS:HG3	2.18	0.44
66:O0:25:LEU:HD23	66:O0:90:VAL:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:67:ARG:CG	71:O5:80:LEU:HD22	2.48	0.44
72:O6:20:MET:HE2	72:O6:20:MET:HB3	1.72	0.44
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.58	0.44
76:Q0:127:LEU:HD22	76:Q0:128:LYS:N	2.33	0.44
80:6:93:A:O2'	6:s4:4:GLY:HA3	2.18	0.44
80:6:829:A:HO2'	80:6:830:U:P	2.40	0.44
80:6:1051:G:O2'	80:6:1052:U:OP1	2.31	0.44
80:6:1449:U:H2'	80:6:1450:U:C6	2.53	0.44
80:6:1490:C:OP1	80:6:1514:U:C5	2.70	0.44
80:6:1532:U:H2'	80:6:1533:C:O4'	2.17	0.44
80:6:1603:U:H2'	80:6:1604:U:C6	2.53	0.44
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.50	0.44
8:s6:173:PRO:HB2	8:s6:174:LYS:H	1.43	0.44
9:s7:39:ARG:N	9:s7:40:PRO:HD2	2.32	0.44
9:s7:121:VAL:O	9:s7:124:LYS:N	2.49	0.44
11:s9:127:VAL:HG12	11:s9:131:GLN:NE2	2.33	0.44
17:c5:85:ILE:HD12	17:c5:114:HIS:O	2.18	0.44
21:c9:35:ASP:OD2	21:c9:36:ILE:HG23	2.17	0.44
21:c9:109:GLU:HG2	21:c9:114:VAL:HG23	1.99	0.44
23:d1:3:ASN:ND2	23:d1:7:GLN:HB3	2.27	0.44
26:d4:84:LYS:HD3	26:d4:85:PHE:HE2	1.83	0.44
27:d5:71:ILE:CG2	27:d5:76:ALA:HB2	2.47	0.44
27:d5:92:ILE:HG13	27:d5:100:ILE:HG22	2.00	0.44
36:5:335:G:N2	36:5:336:A:H1'	2.33	0.44
36:5:947:G:C4	36:5:1373:A:C2	3.06	0.44
36:5:1201:C:O2	87:5:3534:OHX:N2	2.51	0.44
36:5:2244:A:H5''	39:l2:243:THR:OG1	2.17	0.44
36:5:2256:A:H2'	36:5:2256:A:OP2	2.18	0.44
36:5:2947:G:C2	40:l3:250:ALA:HB1	2.52	0.44
36:5:3138:U:H5''	40:l3:274:SER:O	2.18	0.44
36:5:3371:G:C6	36:5:3372:A:C6	3.06	0.44
39:l2:3:ARG:HG2	39:l2:4:VAL:N	2.33	0.44
39:l2:30:ARG:HB2	39:l2:36:GLU:OE2	2.18	0.44
42:l5:92:LEU:HA	42:l5:92:LEU:HD23	1.75	0.44
43:l6:39:VAL:O	43:l6:87:THR:HG23	2.18	0.44
43:l6:55:LEU:HD21	43:l6:145:LEU:HD11	2.00	0.44
48:m1:8:PRO:HD2	48:m1:10:ARG:HG2	1.98	0.44
53:m7:29:THR:HA	53:m7:32:THR:CG2	2.47	0.44
56:n0:89:ASN:OD1	57:n1:156:TYR:N	2.46	0.44
68:o2:30:GLU:O	68:o2:31:ASN:C	2.60	0.44
70:o4:3:GLN:OE1	70:o4:30:LEU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:q0:82:LEU:HD22	76:q0:85:LEU:HD12	1.98	0.44
1:2:11:A:O2'	1:2:12:U:H5'	2.18	0.44
1:2:32:U:H1'	1:2:546:U:O2'	2.18	0.44
1:2:359:A:C2	25:D3:38:PHE:HB3	2.53	0.44
1:2:861:U:H5'	1:2:862:A:OP2	2.17	0.44
1:2:959:U:H6	15:C3:61:THR:HB	1.80	0.44
1:2:1097:U:HO2'	4:S2:168:ARG:HG3	1.82	0.44
1:2:1292:G:H2'	1:2:1293:U:C6	2.52	0.44
1:2:1418:G:O2'	31:D9:56:ARG:O	2.30	0.44
1:2:1524:A:C6	1:2:1525:A:C6	3.05	0.44
1:2:1552:U:O2'	1:2:1597:A:N3	2.43	0.44
1:2:1600:A:O2'	1:2:1602:C:N4	2.51	0.44
2:S0:89:PHE:CD1	2:S0:89:PHE:C	2.96	0.44
4:S2:90:THR:C	4:S2:92:ALA:N	2.76	0.44
5:S3:23:GLU:O	5:S3:26:THR:N	2.50	0.44
6:S4:241:GLY:O	6:S4:242:LYS:C	2.60	0.44
8:S6:67:VAL:HG23	8:S6:100:ALA:H	1.82	0.44
8:S6:189:HIS:HD1	8:S6:189:HIS:C	2.23	0.44
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	2.00	0.44
10:S8:159:GLN:OE1	10:S8:166:TYR:N	2.37	0.44
16:C4:29:HIS:CB	16:C4:41:ARG:HA	2.48	0.44
16:C4:111:ARG:O	16:C4:112:ILE:HD13	2.18	0.44
20:C8:122:HIS:O	20:C8:122:HIS:CG	2.71	0.44
21:C9:117:SER:HB2	21:C9:123:ARG:N	2.32	0.44
22:D0:35:GLU:OE2	22:D0:89:ARG:NH2	2.51	0.44
22:D0:63:LEU:O	22:D0:83:GLU:HA	2.18	0.44
28:D6:75:VAL:O	28:D6:79:ILE:HG13	2.18	0.44
32:E0:38:LEU:O	32:E0:42:ARG:HB2	2.17	0.44
34:SR:288:HIS:ND1	34:SR:288:HIS:N	2.66	0.44
36:1:306:A:C2	36:1:307:A:C8	3.06	0.44
36:1:839:C:H1'	36:1:1724:U:OP1	2.18	0.44
36:1:1119:C:H2'	36:1:1120:A:C8	2.53	0.44
36:1:2178:A:H3'	39:L2:132:ASN:ND2	2.33	0.44
36:1:2218:G:H2'	36:1:2219:A:C8	2.52	0.44
36:1:2218:G:O2'	36:1:2219:A:H5'	2.17	0.44
36:1:2297:U:C2	36:1:2299:A:C6	3.06	0.44
36:1:3112:G:O6	36:1:3120:C:H5''	2.17	0.44
37:3:58:C:H2'	37:3:59:U:C6	2.52	0.44
39:L2:94:ALA:O	39:L2:102:LEU:HD21	2.17	0.44
40:L3:24:SER:OG	40:L3:25:ILE:N	2.50	0.44
40:L3:339:ARG:NH1	40:L3:342:LEU:HD21	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:34:LYS:HE3	57:N1:30:TYR:OH	2.18	0.44
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.17	0.44
47:M0:12:GLN:HG3	47:M0:59:GLN:HG3	1.99	0.44
47:M0:68:ALA:HB1	47:M0:155:ALA:HB1	2.00	0.44
48:M1:134:PRO:O	48:M1:152:HIS:NE2	2.49	0.44
54:M8:101:VAL:O	54:M8:106:PHE:HZ	2.00	0.44
55:M9:158:GLU:O	55:M9:161:ALA:HB3	2.18	0.44
59:N3:48:ARG:NH1	59:N3:48:ARG:HG3	2.33	0.44
59:N3:81:GLN:O	59:N3:82:ALA:HB3	2.17	0.44
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.47	0.44
70:O4:66:SER:HB3	70:O4:69:HIS:ND1	2.33	0.44
74:O8:32:ASN:O	74:O8:32:ASN:ND2	2.51	0.44
77:Q1:12:ARG:O	77:Q1:13:LEU:C	2.61	0.44
80:6:224:C:H2'	80:6:225:A:H8	1.82	0.44
80:6:765:G:N7	11:s9:149:ARG:HD2	2.33	0.44
80:6:1515:A:O2'	80:6:1517:U:OP2	2.33	0.44
80:6:1540:G:C6	80:6:1541:G:C4	3.05	0.44
80:6:1541:G:C5	80:6:1542:G:C6	3.06	0.44
80:6:1709:C:H2'	80:6:1710:U:C5	2.53	0.44
3:s1:103:MET:N	3:s1:215:VAL:HG13	2.33	0.44
3:s1:136:ARG:HG2	3:s1:138:PHE:CE2	2.53	0.44
3:s1:161:ILE:H	3:s1:161:ILE:HG13	1.57	0.44
3:s1:179:SER:HB3	3:s1:183:GLN:HB2	1.99	0.44
3:s1:232:HIS:HB3	3:s1:233:GLY:H	1.45	0.44
4:s2:157:LYS:HA	4:s2:169:LEU:O	2.18	0.44
9:s7:101:LYS:HA	9:s7:112:ARG:CZ	2.48	0.44
11:s9:127:VAL:O	11:s9:131:GLN:HB2	2.18	0.44
13:c1:113:PRO:O	13:c1:114:ALA:HB2	2.18	0.44
14:c2:45:LEU:HB3	14:c2:46:ARG:H	1.67	0.44
18:c6:116:LEU:HD23	18:c6:116:LEU:HA	1.61	0.44
21:c9:115:GLU:OE1	21:c9:123:ARG:HD3	2.18	0.44
24:d2:78:ARG:HD3	24:d2:126:LEU:CD2	2.48	0.44
25:d3:23:ARG:HB3	25:d3:29:TYR:CD1	2.52	0.44
31:d9:40:ARG:O	31:d9:43:PHE:HB3	2.18	0.44
36:5:22:G:H1'	38:8:104:A:N3	2.33	0.44
36:5:406:G:N2	38:8:16:G:C4	2.86	0.44
36:5:636:C:O2	36:5:646:A:H1'	2.18	0.44
36:5:738:A:C2	36:5:739:G:C4	3.06	0.44
36:5:1389:G:H2'	36:5:1390:A:C2	2.53	0.44
36:5:1396:C:H2'	36:5:1397:C:H6	1.83	0.44
36:5:1577:G:H2'	36:5:1578:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1815:U:O2'	36:5:1816:A:P	2.76	0.44
36:5:2225:U:H2'	36:5:2226:U:O4'	2.17	0.44
36:5:2950:G:OP1	40:l3:241:LYS:NZ	2.44	0.44
36:5:2970:C:H4'	36:5:2971:A:C6	2.53	0.44
87:5:3709:OHX:N4	72:o6:28:TYR:O	2.50	0.44
39:l2:177:LYS:HD3	79:q3:69:TYR:CE1	2.53	0.44
45:l8:29:SER:O	45:l8:31:PRO:HD3	2.18	0.44
45:l8:139:VAL:O	45:l8:143:ILE:HG13	2.17	0.44
46:l9:97:PHE:CD2	46:l9:118:LEU:C	2.96	0.44
47:m0:76:MET:HE1	47:m0:148:VAL:HG22	2.00	0.44
47:m0:125:LEU:HD23	47:m0:125:LEU:N	2.32	0.44
50:m4:19:ARG:HA	50:m4:19:ARG:HD3	1.78	0.44
57:n1:160:ILE:HD12	57:n1:160:ILE:HA	1.60	0.44
59:n3:17:LEU:HD22	59:n3:21:ALA:HB1	2.00	0.44
68:o2:60:ASN:OD1	68:o2:62:LYS:HB2	2.18	0.44
76:q0:126:LYS:HD3	76:q0:126:LYS:HA	1.70	0.44
1:2:610:G:H21	25:D3:19:ARG:NH1	2.16	0.43
1:2:951:A:H1'	15:C3:101:HIS:CG	2.53	0.43
1:2:1078:C:H2'	1:2:1079:U:H6	1.83	0.43
1:2:1227:A:H4'	1:2:1228:G:H5''	1.99	0.43
1:2:1362:U:O2'	1:2:1363:U:O2	2.29	0.43
1:2:1528:U:H2'	1:2:1529:C:H6	1.81	0.43
1:2:1529:C:H2'	1:2:1530:C:C6	2.53	0.43
87:2:1962:OHX:N4	87:2:1964:OHX:N1	2.65	0.43
3:S1:97:LEU:CD1	3:S1:98:THR:H	2.31	0.43
9:S7:25:VAL:O	9:S7:28:GLU:HB2	2.18	0.43
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.18	0.43
13:C1:8:GLN:OE1	13:C1:14:GLN:N	2.36	0.43
15:C3:33:VAL:HA	15:C3:36:GLN:HB2	1.99	0.43
18:C6:11:GLY:C	18:C6:12:LYS:HG2	2.42	0.43
25:D3:33:LEU:HD23	25:D3:33:LEU:HA	1.39	0.43
32:E0:55:ARG:HH11	32:E0:58:PRO:HB3	1.81	0.43
36:1:300:G:H1	36:1:315:C:H42	1.66	0.43
36:1:421:G:O6	36:1:2383:C:O2'	2.23	0.43
36:1:435:C:H2'	36:1:436:A:C8	2.53	0.43
36:1:563:U:P	56:N0:71:LYS:HZ1	2.41	0.43
36:1:604:G:H2'	36:1:605:U:O4'	2.18	0.43
36:1:855:U:H2'	36:1:856:G:O4'	2.17	0.43
36:1:1294:A:C2	36:1:1295:G:C8	3.06	0.43
36:1:1305:U:C6	40:L3:257:PRO:HG3	2.53	0.43
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1658:G:C5	36:1:1659:U:C5	3.06	0.43
36:1:1913:A:N3	36:1:2120:A:H2'	2.33	0.43
36:1:1949:G:H2'	36:1:1950:U:C6	2.53	0.43
36:1:2094:C:H2'	36:1:2095:G:C8	2.53	0.43
36:1:2107:A:H2	36:1:3344:A:H8	1.64	0.43
36:1:2546:C:H2'	36:1:2547:A:O4'	2.18	0.43
36:1:2635:A:H4'	36:1:2636:A:O5'	2.18	0.43
36:1:2664:C:O2'	36:1:2665:U:H5'	2.18	0.43
36:1:2694:A:H2'	36:1:2695:A:C8	2.53	0.43
36:1:2983:C:OP1	87:1:3776:OHX:N3	2.51	0.43
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.48	0.43
46:L9:93:VAL:O	46:L9:177:ASP:HA	2.18	0.43
56:N0:17:GLU:O	56:N0:20:PRO:HD3	2.18	0.43
68:O2:104:ASN:O	68:O2:108:ILE:HG13	2.18	0.43
71:O5:6:ALA:HB1	71:O5:10:ARG:HH21	1.81	0.43
80:6:40:A:H61	80:6:467:G:H1'	1.83	0.43
80:6:319:U:H1'	80:6:323:A:C4	2.53	0.43
80:6:375:U:H2'	80:6:376:C:O4'	2.18	0.43
80:6:960:U:H1'	15:c3:52:VAL:HG23	2.00	0.43
80:6:1250:U:O2	33:e1:135:HIS:ND1	2.51	0.43
80:6:1376:C:O2'	80:6:1377:U:H5'	2.18	0.43
4:s2:102:VAL:HG11	4:s2:129:ILE:HG12	2.00	0.43
4:s2:238:SER:O	4:s2:240:LEU:N	2.51	0.43
5:s3:76:ARG:HA	5:s3:76:ARG:HD2	1.79	0.43
7:s5:52:GLU:O	7:s5:54:LYS:HG3	2.18	0.43
9:s7:116:ARG:HD3	9:s7:116:ARG:HA	1.80	0.43
13:c1:95:PRO:O	13:c1:96:LYS:C	2.61	0.43
15:c3:128:TYR:O	15:c3:131:THR:N	2.51	0.43
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.75	0.43
25:d3:50:LYS:HE3	25:d3:101:GLU:HG2	2.01	0.43
33:e1:77:GLY:HA2	33:e1:78:LYS:HA	1.83	0.43
34:sR:112:SER:O	34:sR:124:SER:HA	2.18	0.43
34:sR:297:ASP:C	34:sR:299:GLN:N	2.75	0.43
36:5:96:G:H5'	49:m3:15:ARG:CZ	2.47	0.43
36:5:172:G:O6	87:5:3803:OHX:N4	2.46	0.43
36:5:283:G:N9	64:n8:61:PHE:CE1	2.86	0.43
36:5:290:G:OP1	51:m5:98:LEU:HD13	2.18	0.43
36:5:527:A:H2'	36:5:528:U:C6	2.53	0.43
36:5:1102:A:H5''	36:5:1103:A:OP1	2.18	0.43
36:5:1203:A:H2'	36:5:1204:A:C8	2.53	0.43
36:5:1204:A:H2'	36:5:1205:A:H5'	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1715:A:C5	66:o0:84:LEU:HD13	2.53	0.43
36:5:2201:G:N2	36:5:2244:A:C4	2.86	0.43
36:5:2431:C:C4	36:5:2432:A:N7	2.86	0.43
36:5:2788:C:H2'	36:5:2789:U:H6	1.82	0.43
36:5:2898:G:H5''	36:5:2899:C:C5'	2.47	0.43
36:5:2969:A:H2'	36:5:2970:C:C6	2.53	0.43
36:5:3220:G:C5	36:5:3266:G:C2	3.06	0.43
38:8:107:G:O2'	38:8:108:C:H5'	2.18	0.43
40:l3:226:PHE:HE2	40:l3:267:ALA:CB	2.27	0.43
40:l3:361:THR:CG2	40:l3:371:GLN:HB3	2.48	0.43
41:l4:16:THR:HG23	41:l4:18:ASN:N	2.29	0.43
41:l4:300:ARG:O	54:m8:39:ARG:NH1	2.51	0.43
42:l5:99:TYR:CD2	42:l5:199:ILE:HG23	2.53	0.43
42:l5:180:PHE:HB3	42:l5:195:LEU:HD22	1.99	0.43
45:l8:28:HIS:NE2	63:n7:128:GLN:OE1	2.51	0.43
51:m5:104:GLU:O	51:m5:108:ARG:HG3	2.18	0.43
53:m7:123:PRO:O	53:m7:143:PRO:HG2	2.18	0.43
54:m8:101:VAL:HG21	54:m8:114:ILE:HD13	2.00	0.43
54:m8:178:ARG:HD2	54:m8:178:ARG:HA	1.43	0.43
56:n0:12:ARG:HD2	56:n0:22:PRO:HG2	2.00	0.43
62:n6:32:SER:HB2	62:n6:48:LEU:O	2.18	0.43
62:n6:57:LEU:HB3	62:n6:105:VAL:HG12	1.99	0.43
63:n7:53:VAL:HA	63:n7:57:HIS:CD2	2.52	0.43
64:n8:133:LEU:CD1	64:n8:137:LYS:HE2	2.47	0.43
67:o1:82:GLU:O	67:o1:83:GLU:C	2.61	0.43
68:o2:76:VAL:HG21	68:o2:94:ALA:HB1	2.00	0.43
68:o2:104:ASN:O	68:o2:108:ILE:HD12	2.18	0.43
71:o5:59:ASN:O	71:o5:63:ARG:HG2	2.18	0.43
1:2:50:C:H42	1:2:429:G:H1	1.66	0.43
1:2:388:G:OP1	1:2:423:G:O2'	2.35	0.43
1:2:763:G:C6	1:2:764:U:C4	3.06	0.43
1:2:840:U:O2'	1:2:841:U:H5''	2.17	0.43
1:2:883:C:H2'	1:2:884:A:C8	2.52	0.43
1:2:1227:A:H5''	14:C2:117:GLY:HA3	2.00	0.43
1:2:1292:G:C6	1:2:1324:G:N2	2.85	0.43
1:2:1332:C:O2'	5:S3:162:GLN:HB3	2.18	0.43
1:2:1505:A:C5	1:2:1506:G:H1'	2.52	0.43
1:2:1642:G:H2'	1:2:1643:U:C6	2.53	0.43
87:2:1962:OHX:N6	87:2:1964:OHX:N5	2.65	0.43
7:S5:136:ALA:HB1	7:S5:201:ALA:HB3	2.00	0.43
9:S7:173:TYR:CE1	9:S7:179:LYS:HB2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:23:ALA:O	12:C0:64:TYR:HB2	2.17	0.43
12:C0:77:ARG:HA	12:C0:82:LEU:CD1	2.48	0.43
18:C6:6:SER:HA	18:C6:22:VAL:O	2.18	0.43
18:C6:82:ARG:HH12	18:C6:114:ARG:HB3	1.83	0.43
21:C9:76:LEU:HD22	21:C9:80:TYR:HE2	1.83	0.43
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.85	0.43
30:D8:18:ARG:HD3	30:D8:25:VAL:O	2.18	0.43
35:SM:55:SER:O	35:SM:59:GLY:N	2.38	0.43
35:SM:61:ILE:HD12	35:SM:62:ARG:HG2	1.99	0.43
36:1:95:A:C5	36:1:96:G:H1'	2.52	0.43
36:1:138:U:H2'	36:1:139:G:H8	1.83	0.43
36:1:196:G:H1'	36:1:219:A:H61	1.83	0.43
36:1:980:A:H2'	36:1:981:U:H1'	1.99	0.43
36:1:1495:U:H5	36:1:1835:A:C2	2.36	0.43
36:1:2172:A:C5	36:1:2173:U:C5	3.06	0.43
36:1:2944:U:H1'	40:L3:251:CYS:SG	2.58	0.43
36:1:2956:A:H61	36:1:2977:G:C2'	2.31	0.43
36:1:3299:A:C5	36:1:3300:U:C5	3.06	0.43
38:4:140:G:H2'	38:4:141:C:O4'	2.18	0.43
39:L2:245:LEU:HD12	39:L2:246:LEU:N	2.33	0.43
47:M0:19:LYS:HG3	47:M0:26:VAL:CG1	2.44	0.43
47:M0:90:ARG:O	47:M0:91:VAL:HG23	2.17	0.43
47:M0:207:GLU:O	47:M0:209:ASN:N	2.51	0.43
48:M1:38:GLU:O	48:M1:42:GLY:N	2.51	0.43
48:M1:116:TYR:CE1	48:M1:118:PRO:HA	2.53	0.43
57:N1:78:LYS:HE3	57:N1:87:LYS:HD2	2.00	0.43
60:N4:37:ALA:O	60:N4:41:LYS:HG3	2.18	0.43
64:N8:96:LYS:C	64:N8:98:THR:N	2.76	0.43
71:O5:34:GLN:O	71:O5:36:LEU:N	2.51	0.43
74:O8:43:PHE:CE2	74:O8:65:LEU:HD13	2.53	0.43
76:Q0:103:LEU:HD11	76:Q0:110:CYS:HA	2.00	0.43
78:Q2:12:CYS:HB2	78:Q2:23:HIS:NE2	2.33	0.43
79:Q3:44:LYS:HD2	79:Q3:59:CYS:SG	2.58	0.43
80:6:122:U:O5'	80:6:122:U:H6	2.01	0.43
80:6:207:U:H2'	80:6:208:U:H6	1.82	0.43
80:6:542:A:OP1	80:6:544:A:C5	2.71	0.43
80:6:1165:G:C6	80:6:1166:A:C6	3.06	0.43
80:6:1555:A:P	17:c5:47:ARG:HH21	2.41	0.43
6:s4:46:VAL:O	6:s4:50:ASN:HB2	2.18	0.43
6:s4:209:HIS:O	6:s4:210:ILE:HD13	2.18	0.43
16:c4:31:THR:HA	16:c4:39:ILE:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:53:LEU:H	18:c6:53:LEU:HG	1.61	0.43
19:c7:104:ASN:O	19:c7:106:THR:HG22	2.18	0.43
20:c8:15:LEU:HG	20:c8:66:LEU:HD11	2.00	0.43
22:d0:53:LYS:HD3	22:d0:53:LYS:HA	1.59	0.43
24:d2:103:ILE:O	24:d2:126:LEU:HB2	2.17	0.43
26:d4:52:LYS:HA	26:d4:55:VAL:HG22	1.99	0.43
30:d8:5:THR:O	30:d8:7:VAL:N	2.51	0.43
34:sR:292:LEU:HD22	34:sR:301:LEU:HD11	1.98	0.43
36:5:172:G:N1	36:5:173:G:C5	2.87	0.43
36:5:589:A:H1'	36:5:1337:A:H5''	2.00	0.43
36:5:911:C:N4	39:l2:3:ARG:HD3	2.33	0.43
36:5:1481:A:H61	70:o4:2:ALA:HB1	1.84	0.43
36:5:1487:G:H1	36:5:1855:U:H3	1.66	0.43
36:5:1700:G:C6	36:5:1701:C:C4	3.06	0.43
36:5:2317:A:H2'	36:5:2318:U:O4'	2.17	0.43
38:8:106:C:H5''	38:8:108:C:OP2	2.17	0.43
40:l3:81:THR:HG21	40:l3:205:VAL:CG1	2.45	0.43
41:l4:308:LYS:HG2	41:l4:309:ARG:N	2.33	0.43
42:l5:68:THR:HB	42:l5:71:GLY:O	2.18	0.43
44:l7:158:LYS:O	44:l7:159:GLN:C	2.61	0.43
46:l9:171:ASP:OD1	46:l9:171:ASP:C	2.60	0.43
47:m0:5:PRO:C	47:m0:7:ARG:N	2.76	0.43
50:m4:88:ALA:HB3	50:m4:90:VAL:HG12	1.99	0.43
52:m6:22:VAL:HG21	52:m6:120:VAL:HG11	2.00	0.43
54:m8:93:ILE:HD13	54:m8:113:LYS:HE2	2.00	0.43
56:n0:7:TYR:HB3	56:n0:61:ILE:CD1	2.47	0.43
57:n1:14:MET:SD	57:n1:58:GLN:HG2	2.58	0.43
59:n3:128:ARG:HB3	59:n3:128:ARG:CZ	2.48	0.43
60:n4:79:GLN:HG3	60:n4:80:ARG:N	2.33	0.43
67:o1:30:PRO:HG3	67:o1:60:TRP:CZ2	2.53	0.43
71:o5:85:THR:O	71:o5:89:ARG:HB2	2.18	0.43
79:q3:29:LEU:HA	79:q3:29:LEU:HD23	1.76	0.43
1:2:615:A:O2'	1:2:616:G:H5'	2.18	0.43
1:2:735:C:O2'	1:2:736:C:H5''	2.18	0.43
1:2:819:G:O6	1:2:853:G:C6	2.71	0.43
1:2:1094:G:H2'	1:2:1095:U:H6	1.84	0.43
1:2:1277:G:C6	1:2:1278:G:C2	3.07	0.43
1:2:1802:A:H2'	1:2:1803:G:H8	1.82	0.43
3:S1:51:SER:HA	3:S1:57:ALA:H	1.82	0.43
3:S1:96:LEU:O	3:S1:96:LEU:HD23	2.18	0.43
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:235:LEU:HD13	23:D1:33:GLN:NE2	2.33	0.43
9:S7:176:LEU:HD23	9:S7:176:LEU:HA	1.75	0.43
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.18	0.43
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.17	0.43
16:C4:102:LEU:HD22	16:C4:102:LEU:HA	1.67	0.43
18:C6:51:PRO:HA	18:C6:109:PHE:HE1	1.84	0.43
21:C9:42:GLY:HA3	21:C9:94:ILE:HG21	2.00	0.43
22:D0:34:LEU:HD13	22:D0:89:ARG:HD2	2.00	0.43
25:D3:57:LEU:HB3	25:D3:59:ILE:HD11	2.01	0.43
28:D6:58:VAL:HG12	28:D6:59:TYR:N	2.33	0.43
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.32	0.43
36:1:290:G:H2'	36:1:291:C:H6	1.83	0.43
36:1:317:A:H2'	36:1:318:A:C8	2.53	0.43
36:1:911:C:H42	39:L2:3:ARG:HD3	1.84	0.43
36:1:966:U:C2	36:1:967:A:N7	2.86	0.43
36:1:1277:C:O2'	36:1:1278:A:OP2	2.29	0.43
36:1:1299:U:H2'	36:1:1300:G:C8	2.53	0.43
36:1:1456:A:N6	67:O1:64:VAL:HG22	2.33	0.43
36:1:1656:A:N6	36:1:1799:A:OP2	2.43	0.43
36:1:2356:A:O2'	53:M7:137:ASN:HB3	2.19	0.43
36:1:2403:G:OP1	87:1:3733:OHX:N5	2.52	0.43
36:1:2419:A:H2'	36:1:2420:C:H6	1.84	0.43
36:1:2661:G:O2'	36:1:2662:G:H5'	2.18	0.43
36:1:2663:G:C5	36:1:2664:C:C5	3.06	0.43
37:3:47:C:O2'	37:3:48:U:H5'	2.18	0.43
38:4:11:C:H1'	53:M7:6:ALA:HB2	2.00	0.43
40:L3:161:LEU:HD22	40:L3:178:LEU:HD11	2.00	0.43
41:L4:56:ALA:C	41:L4:58:HIS:H	2.26	0.43
41:L4:149:PRO:HB3	41:L4:250:TRP:HE1	1.83	0.43
41:L4:192:GLY:O	41:L4:195:ARG:N	2.44	0.43
45:L8:75:ILE:C	45:L8:77:GLN:H	2.18	0.43
47:M0:33:ILE:HD11	47:M0:36:LEU:CG	2.48	0.43
48:M1:84:LEU:HD11	48:M1:163:PHE:HE1	1.82	0.43
48:M1:94:ARG:C	48:M1:96:PHE:H	2.18	0.43
50:M4:66:THR:C	50:M4:68:LEU:H	2.26	0.43
51:M5:158:HIS:C	51:M5:160:GLU:H	2.27	0.43
59:N3:74:MET:HE3	59:N3:102:ILE:HB	2.00	0.43
63:N7:9:LYS:HD3	63:N7:9:LYS:HA	1.74	0.43
70:O4:74:ARG:CG	70:O4:75:ALA:N	2.81	0.43
71:O5:63:ARG:O	71:O5:67:ARG:HG3	2.18	0.43
72:O6:58:ILE:HD13	72:O6:59:ASP:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:2:GLY:HA2	73:O7:6:PRO:HG2	2.01	0.43
80:6:407:A:H5'	8:s6:94:ARG:NH2	2.32	0.43
80:6:648:G:N3	80:6:687:G:N2	2.65	0.43
80:6:680:U:C2	80:6:682:C:N4	2.86	0.43
80:6:919:A:H2'	80:6:920:U:C6	2.53	0.43
80:6:919:A:O2'	16:c4:36:LYS:HG3	2.17	0.43
80:6:1152:A:C2	80:6:1627:U:C2	3.06	0.43
80:6:1638:G:N2	80:6:1639:C:H1'	2.33	0.43
3:s1:24:PHE:HA	3:s1:27:LYS:HG2	2.00	0.43
6:s4:159:THR:HG21	6:s4:227:VAL:O	2.18	0.43
11:s9:79:ARG:O	11:s9:83:VAL:HG22	2.19	0.43
17:c5:126:VAL:HG11	82:sM:71:ASN:HD21	1.84	0.43
18:c6:109:PHE:HB3	18:c6:116:LEU:HB3	2.00	0.43
20:c8:44:ASN:OD1	20:c8:48:LYS:HE3	2.18	0.43
20:c8:132:ARG:HD3	20:c8:132:ARG:HA	1.86	0.43
24:d2:38:LEU:HD23	24:d2:38:LEU:HA	1.74	0.43
26:d4:41:ARG:HD2	26:d4:56:SER:HA	2.00	0.43
36:5:59:G:H2'	38:8:33:A:O2'	2.19	0.43
36:5:248:U:C3'	36:5:249:U:H5'	2.48	0.43
36:5:740:G:H2'	36:5:741:U:O4'	2.18	0.43
36:5:1759:C:C4	36:5:1760:A:C8	3.07	0.43
36:5:1860:G:OP2	87:5:3687:OHX:N4	2.51	0.43
36:5:2137:U:C6	36:5:2141:U:C5	3.06	0.43
36:5:2144:A:C4	36:5:2281:A:C6	3.07	0.43
36:5:2289:U:H2'	36:5:2290:C:C6	2.54	0.43
36:5:2816:G:H1	36:5:2820:A:H62	1.65	0.43
36:5:2837:A:O2'	36:5:2850:G:N2	2.51	0.43
38:8:5:U:H2'	38:8:6:U:C6	2.54	0.43
39:l2:18:SER:OG	39:l2:23:ARG:NH2	2.52	0.43
42:l5:127:GLY:O	42:l5:192:PRO:HB3	2.18	0.43
45:l8:156:ASP:N	45:l8:156:ASP:OD2	2.51	0.43
49:m3:36:ARG:HG2	49:m3:36:ARG:NH1	2.33	0.43
49:m3:140:SER:OG	49:m3:143:ALA:N	2.36	0.43
52:m6:27:LEU:O	52:m6:101:ARG:NH1	2.52	0.43
55:m9:21:LYS:O	55:m9:53:LYS:HB2	2.18	0.43
61:n5:38:LEU:HD13	61:n5:40:LEU:CD2	2.48	0.43
61:n5:45:LYS:HB2	61:n5:45:LYS:HE2	1.86	0.43
70:o4:65:VAL:HG13	70:o4:69:HIS:HB2	2.00	0.43
78:q2:11:TYR:HB2	78:q2:20:HIS:CE1	2.53	0.43
1:2:361:C:H5'	1:2:361:C:H6	1.83	0.43
1:2:534:A:C5	1:2:535:A:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:616:G:C2	1:2:622:A:C8	3.06	0.43
1:2:638:U:H1'	9:S7:112:ARG:HH12	1.83	0.43
1:2:783:G:O2'	1:2:784:C:C6	2.72	0.43
1:2:1017:U:H2'	1:2:1018:U:C6	2.53	0.43
1:2:1068:C:H2'	1:2:1069:A:H8	1.83	0.43
1:2:1429:G:C6	1:2:1430:U:C4	3.05	0.43
1:2:1480:G:C8	1:2:1481:C:C5	3.06	0.43
4:S2:40:LYS:HA	4:S2:43:ARG:HH12	1.82	0.43
4:S2:112:GLY:HA3	4:S2:132:ALA:O	2.17	0.43
4:S2:178:ILE:HD12	4:S2:189:GLN:HG3	2.00	0.43
7:S5:140:THR:HA	7:S5:214:LYS:HD2	1.99	0.43
8:S6:176:GLN:C	8:S6:178:LEU:N	2.76	0.43
9:S7:71:HIS:CG	9:S7:131:PHE:CZ	3.06	0.43
10:S8:29:LEU:HD11	10:S8:31:ARG:NH1	2.33	0.43
11:S9:75:ALA:O	11:S9:79:ARG:HB2	2.18	0.43
17:C5:16:SER:HA	17:C5:20:VAL:O	2.18	0.43
17:C5:130:ARG:HA	17:C5:130:ARG:HD2	1.88	0.43
22:D0:117:VAL:O	22:D0:118:VAL:HB	2.18	0.43
24:D2:57:ARG:N	24:D2:57:ARG:HD2	2.34	0.43
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.99	0.43
34:SR:302:PHE:HD1	34:SR:312:VAL:HG12	1.84	0.43
36:1:239:G:N7	87:1:3573:OHX:N4	2.66	0.43
36:1:255:A:O2'	36:1:256:G:H5'	2.18	0.43
36:1:513:G:O2'	36:1:514:G:H5'	2.18	0.43
36:1:729:C:P	54:M8:43:PRO:HB2	2.58	0.43
36:1:760:G:C2	36:1:770:G:C4	3.06	0.43
36:1:1094:U:H4'	36:1:1095:U:OP1	2.19	0.43
36:1:1120:A:C2	36:1:1139:G:C2	3.06	0.43
36:1:1939:G:H2'	36:1:1940:G:O4'	2.18	0.43
36:1:2166:A:O3'	51:M5:72:LYS:HD3	2.18	0.43
36:1:2187:G:OP2	87:1:3540:OHX:N5	2.52	0.43
36:1:2761:G:N1	36:1:2795:U:H3'	2.32	0.43
36:1:3007:U:H2'	36:1:3008:A:O4'	2.18	0.43
36:1:3165:A:H2'	36:1:3166:C:C6	2.53	0.43
36:1:3188:G:O6	87:1:3758:OHX:N5	2.52	0.43
36:1:3351:U:H2'	36:1:3353:G:H21	1.83	0.43
38:4:104:A:C8	38:4:105:A:C8	3.07	0.43
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.18	0.43
39:L2:120:PRO:HB3	39:L2:161:ASP:O	2.18	0.43
41:L4:125:ALA:HB1	41:L4:238:LEU:HB3	2.00	0.43
42:L5:68:THR:HG22	42:L5:70:THR:N	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:294:ALA:HB1	47:M0:217:PHE:CB	2.48	0.43
43:L6:65:ILE:HD11	43:L6:77:ARG:HB3	2.01	0.43
44:L7:66:LYS:HG3	44:L7:76:TYR:CD2	2.53	0.43
46:L9:21:LYS:HG3	46:L9:22:SER:N	2.33	0.43
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.36	0.43
53:M7:51:VAL:O	53:M7:53:ASP:N	2.51	0.43
53:M7:94:LEU:HB3	53:M7:148:LEU:HD21	2.00	0.43
64:N8:27:LYS:HD3	64:N8:27:LYS:HA	1.70	0.43
80:6:223:U:H2'	80:6:224:C:C6	2.53	0.43
80:6:275:C:H42	80:6:281:G:H1	1.66	0.43
80:6:1185:U:C2	80:6:1458:G:N7	2.87	0.43
80:6:1360:A:C3'	80:6:1361:U:H4'	2.48	0.43
2:s0:74:VAL:HA	2:s0:96:THR:O	2.18	0.43
6:s4:38:LEU:O	6:s4:41:SER:OG	2.36	0.43
7:s5:65:ARG:NE	7:s5:65:ARG:HA	2.33	0.43
7:s5:162:VAL:HG22	7:s5:167:ARG:HG2	2.00	0.43
9:s7:117:THR:HG22	9:s7:120:ALA:CB	2.48	0.43
13:c1:54:ILE:HA	13:c1:54:ILE:HD13	1.74	0.43
17:c5:111:MET:HG2	20:c8:119:ILE:CG1	2.48	0.43
23:d1:62:ARG:HH12	24:d2:20:THR:HB	1.84	0.43
34:sR:220:ILE:HG21	34:sR:252:LEU:HD21	2.00	0.43
34:sR:305:TYR:CD2	34:sR:311:ARG:HD2	2.54	0.43
36:5:156:G:C5	49:m3:99:HIS:CE1	3.06	0.43
36:5:883:A:C5	36:5:921:A:C6	3.06	0.43
36:5:883:A:C6	36:5:921:A:C5	3.07	0.43
36:5:1008:U:H2'	36:5:1009:A:O4'	2.19	0.43
36:5:1049:C:H2'	36:5:1050:U:H6	1.81	0.43
36:5:1340:G:OP2	68:o2:61:LYS:HD2	2.18	0.43
36:5:1765:U:H2'	36:5:1766:G:O4'	2.18	0.43
36:5:1927:G:H3'	36:5:1927:G:N3	2.33	0.43
36:5:2403:G:H2'	36:5:2870:C:O2'	2.18	0.43
36:5:2769:A:C2	36:5:2790:A:C2	3.06	0.43
36:5:2827:U:H1'	36:5:2828:G:N7	2.33	0.43
36:5:3048:A:C5'	40:l3:53:MET:HE3	2.49	0.43
38:8:59:A:O2'	61:n5:61:LYS:NZ	2.51	0.43
40:l3:4:ARG:HH11	40:l3:4:ARG:CG	2.32	0.43
42:l5:148:ILE:HA	42:l5:148:ILE:HD12	1.57	0.43
43:l6:173:MET:HE3	43:l6:173:MET:HB3	1.56	0.43
51:m5:124:ASP:OD2	51:m5:127:TYR:N	2.48	0.43
54:m8:42:ALA:O	54:m8:43:PRO:C	2.62	0.43
63:n7:102:GLU:OE1	63:n7:103:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:8:ARG:HH21	70:o4:31:ARG:CD	2.31	0.43
1:2:431:C:H2'	1:2:432:G:O4'	2.17	0.43
1:2:575:C:H4'	35:SM:104:LYS:HD3	2.01	0.43
1:2:1032:G:C6	1:2:1104:U:C4	3.07	0.43
1:2:1042:G:C6	1:2:1043:A:N7	2.87	0.43
1:2:1080:U:H3'	1:2:1081:A:C8	2.54	0.43
1:2:1527:C:H2'	1:2:1528:U:C6	2.54	0.43
1:2:1642:G:O6	87:2:1901:OHX:N6	2.51	0.43
7:S5:49:GLU:H	7:S5:49:GLU:HG3	1.49	0.43
7:S5:94:THR:HG22	7:S5:114:ILE:CD1	2.48	0.43
9:S7:66:SER:O	9:S7:68:ALA:N	2.51	0.43
9:S7:155:ASP:O	9:S7:186:PRO:HD3	2.18	0.43
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.83	0.43
11:S9:107:ARG:NH2	11:S9:148:VAL:O	2.51	0.43
13:C1:67:ARG:O	13:C1:67:ARG:NE	2.46	0.43
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.99	0.43
17:C5:110:GLU:HG3	20:C8:119:ILE:HD11	1.99	0.43
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.53	0.43
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.18	0.43
36:1:112:U:C2	36:1:320:G:C2	3.07	0.43
36:1:2197:C:N4	36:1:2241:U:H2'	2.33	0.43
36:1:2882:U:H2'	36:1:2883:U:O4'	2.19	0.43
36:1:2900:A:C4	36:1:2901:G:C8	3.07	0.43
36:1:2930:A:H2'	36:1:2931:C:H6	1.84	0.43
36:1:3110:C:C2	36:1:3111:U:C5	3.07	0.43
36:1:3152:U:C5	36:1:3395:G:C6	3.06	0.43
36:1:3383:G:H2'	36:1:3384:U:H6	1.84	0.43
87:1:3407:OHX:N5	87:1:3806:OHX:N3	2.66	0.43
39:L2:14:SER:OG	39:L2:15:ILE:N	2.48	0.43
40:L3:243:HIS:C	40:L3:244:ARG:HG3	2.44	0.43
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.17	0.43
47:M0:216:TYR:HD2	47:M0:217:PHE:CD1	2.37	0.43
48:M1:13:LYS:HD3	48:M1:14:ILE:O	2.18	0.43
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.54	0.43
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	2.00	0.43
58:N2:18:ASP:C	58:N2:20:SER:H	2.27	0.43
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.99	0.43
71:O5:38:ARG:HH11	71:O5:41:LEU:HD22	1.83	0.43
71:O5:96:GLU:H	71:O5:96:GLU:HG3	1.42	0.43
80:6:731:C:H6	80:6:731:C:O5'	2.01	0.43
80:6:1042:G:H22	80:6:1076:A:H2	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1070:C:H4'	29:d7:17:ARG:HD3	2.01	0.43
80:6:1507:G:H2'	80:6:1508:U:C6	2.52	0.43
80:6:1695:G:N2	80:6:1706:C:H41	2.15	0.43
80:6:1715:G:C6	80:6:1716:C:N4	2.86	0.43
80:6:1795:U:H1'	28:d6:36:ILE:HD11	1.99	0.43
4:s2:116:LYS:HG2	4:s2:127:ALA:CB	2.48	0.43
10:s8:70:GLU:HB3	10:s8:112:TRP:CH2	2.54	0.43
17:c5:10:ARG:HD3	17:c5:10:ARG:HA	1.89	0.43
20:c8:26:ILE:HG13	20:c8:31:ALA:CB	2.48	0.43
20:c8:134:ARG:HB2	20:c8:136:GLN:OE1	2.18	0.43
34:sR:115:ILE:HG13	34:sR:121:MET:O	2.18	0.43
36:5:26:A:C6	36:5:27:C:C4	3.06	0.43
36:5:259:C:H2'	36:5:260:C:C6	2.52	0.43
36:5:295:A:N3	72:o6:82:ARG:NH1	2.67	0.43
36:5:1176:C:OP1	52:m6:25:LYS:HE3	2.19	0.43
36:5:1345:G:C2	36:5:1360:C:C2	3.07	0.43
36:5:1347:U:O4'	41:l4:305:ALA:HA	2.18	0.43
36:5:1458:U:O2'	67:o1:33:VAL:HG21	2.18	0.43
36:5:2318:U:C4	36:5:2319:U:C4	3.06	0.43
36:5:2814:G:OP1	41:l4:73:ARG:NH2	2.51	0.43
36:5:3121:U:H1'	36:5:3122:A:H5''	2.00	0.43
36:5:3170:A:C2	36:5:3281:U:C2	3.07	0.43
36:5:3236:U:O5'	36:5:3236:U:H6	2.01	0.43
37:7:55:A:H2'	37:7:56:A:O4'	2.18	0.43
42:l5:211:LEU:HD23	42:l5:211:LEU:HA	1.73	0.43
43:l6:10:TYR:CG	68:o2:88:HIS:CE1	3.06	0.43
44:l7:102:VAL:HG13	44:l7:126:LEU:HD22	2.01	0.43
49:m3:50:PRO:O	49:m3:52:ASP:N	2.51	0.43
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.51	0.43
62:n6:57:LEU:HD23	62:n6:67:GLU:CG	2.48	0.43
63:n7:34:LYS:HD2	63:n7:34:LYS:HA	1.72	0.43
63:n7:81:LEU:HD22	63:n7:81:LEU:HA	1.41	0.43
63:n7:84:ARG:HB3	66:o0:61:MET:HE1	1.99	0.43
70:o4:5:VAL:HG21	70:o4:32:ALA:N	2.33	0.43
78:q2:71:ARG:HH11	78:q2:71:ARG:HG3	1.84	0.43
1:2:952:A:H5'	15:C3:98:VAL:HG22	2.00	0.43
1:2:980:G:OP2	1:2:1014:G:O2'	2.35	0.43
1:2:1230:A:C8	1:2:1256:A:C6	3.06	0.43
1:2:1681:A:C2'	1:2:1682:U:H5'	2.45	0.43
1:2:1808:G:H21	1:2:1819:C:N4	2.16	0.43
87:2:1906:OHX:N5	87:S2:301:OHX:N6	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:33:LYS:HE3	3:S1:42:ASN:OD1	2.19	0.43
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.57	0.43
3:S1:104:ASP:CG	3:S1:105:PHE:H	2.26	0.43
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.48	0.43
7:S5:77:TYR:OH	7:S5:88:PRO:HD2	2.18	0.43
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.18	0.43
10:S8:36:THR:HB	10:S8:57:ALA:O	2.18	0.43
12:C0:72:GLY:O	12:C0:76:LEU:HD22	2.19	0.43
17:C5:85:ILE:HG22	17:C5:112:LEU:HA	1.99	0.43
18:C6:79:TYR:O	18:C6:82:ARG:HG2	2.18	0.43
19:C7:41:ILE:HG22	19:C7:43:SER:H	1.83	0.43
20:C8:80:LYS:HD2	20:C8:80:LYS:HA	1.70	0.43
26:D4:5:VAL:O	26:D4:6:THR:HB	2.18	0.43
30:D8:13:ILE:O	30:D8:14:LYS:HD2	2.18	0.43
34:SR:50:ASP:O	34:SR:52:GLN:N	2.52	0.43
34:SR:195:HIS:HE1	34:SR:214:ALA:HA	1.83	0.43
36:1:65:A:C4	36:1:110:G:N7	2.86	0.43
36:1:629:U:H2'	36:1:630:A:C8	2.54	0.43
36:1:660:A:H5''	41:L4:100:PHE:CG	2.52	0.43
36:1:692:A:C4	36:1:693:A:C8	3.07	0.43
36:1:695:C:OP1	41:L4:271:LYS:NZ	2.51	0.43
36:1:950:G:N7	36:1:1367:G:C6	2.86	0.43
36:1:1312:C:O2'	52:M6:83:ALA:O	2.37	0.43
36:1:1439:U:H5''	41:L4:87:GLN:OE1	2.18	0.43
36:1:1464:G:N7	87:1:3801:OHX:N6	2.66	0.43
36:1:1549:U:H2'	36:1:1550:C:H6	1.83	0.43
36:1:2242:A:H5'	39:L2:243:THR:O	2.18	0.43
36:1:2561:A:HO2'	36:1:2562:A:H8	1.63	0.43
36:1:2598:G:C6	36:1:2599:U:C4	3.07	0.43
36:1:3088:G:H2'	36:1:3089:C:C6	2.53	0.43
36:1:3090:U:H2'	36:1:3091:A:C8	2.53	0.43
36:1:3194:C:N4	36:1:3196:U:C4	2.86	0.43
87:1:3426:OHX:N5	57:N1:13:TYR:O	2.52	0.43
87:1:3531:OHX:N5	37:3:86:U:O2	2.52	0.43
38:4:65:A:H2'	38:4:66:A:O4'	2.18	0.43
38:4:133:G:C6	38:4:134:G:N7	2.87	0.43
39:L2:179:LEU:HD13	39:L2:179:LEU:HA	1.68	0.43
40:L3:235:THR:HG23	40:L3:236:LYS:O	2.19	0.43
40:L3:284:ARG:HB3	40:L3:323:MET:CB	2.49	0.43
41:L4:200:THR:O	41:L4:201:GLN:HB3	2.18	0.43
41:L4:309:ARG:CZ	41:L4:312:VAL:HB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:41:LYS:HG2	57:N1:93:VAL:HG11	2.00	0.43
44:L7:80:GLN:OE1	57:N1:136:ARG:HG3	2.19	0.43
44:L7:123:THR:O	44:L7:126:LEU:HB2	2.19	0.43
45:L8:204:ARG:O	45:L8:206:GLU:N	2.51	0.43
46:L9:112:ILE:HD11	46:L9:134:ILE:HG12	2.01	0.43
48:M1:95:ASN:O	48:M1:102:PHE:HA	2.19	0.43
48:M1:132:ASN:OD1	48:M1:132:ASN:N	2.50	0.43
52:M6:65:ASN:O	52:M6:68:ARG:HG2	2.19	0.43
55:M9:105:LEU:HD12	55:M9:135:LYS:CD	2.48	0.43
59:N3:34:LEU:HA	59:N3:34:LEU:HD23	1.81	0.43
59:N3:86:ARG:HG2	59:N3:87:ARG:N	2.29	0.43
70:O4:43:LYS:C	70:O4:51:LEU:HD22	2.44	0.43
73:O7:14:LYS:NZ	75:O9:51:ILE:HD11	2.33	0.43
79:Q3:55:TRP:CD1	79:Q3:55:TRP:N	2.87	0.43
80:6:72:A:H5'	80:6:73:U:OP2	2.19	0.43
80:6:150:U:OP2	26:d4:124:ARG:HG3	2.19	0.43
80:6:157:A:H2	80:6:420:A:O4'	2.01	0.43
80:6:370:A:H2'	80:6:371:G:O4'	2.18	0.43
80:6:445:A:C2	80:6:446:A:C8	3.07	0.43
80:6:1067:C:C2	80:6:1068:C:C5	3.07	0.43
80:6:1208:A:H4'	80:6:1270:G:P	2.59	0.43
80:6:1368:G:C6	80:6:1369:U:C4	3.07	0.43
80:6:1624:C:H2'	80:6:1625:C:C6	2.54	0.43
80:6:1751:C:H2'	80:6:1752:U:O4'	2.18	0.43
5:s3:167:PHE:CE1	5:s3:192:PRO:HB3	2.54	0.43
8:s6:122:GLU:O	8:s6:126:ASP:HB3	2.19	0.43
9:s7:50:ASP:CG	9:s7:56:LYS:HE2	2.43	0.43
18:c6:50:GLU:O	18:c6:54:LEU:HD23	2.19	0.43
25:d3:6:PRO:O	25:d3:15:LEU:HD21	2.19	0.43
25:d3:118:PRO:O	25:d3:120:VAL:N	2.52	0.43
32:e0:46:ASN:HD21	32:e0:48:THR:HG22	1.82	0.43
34:sR:67:ILE:HD12	34:sR:85:TRP:CZ2	2.53	0.43
36:5:912:G:H5''	36:5:913:A:P	2.59	0.43
36:5:2291:A:C2	36:5:2302:G:C2	3.07	0.43
36:5:2511:A:C2'	36:5:2512:C:H5''	2.47	0.43
36:5:2665:U:O4	36:5:2703:A:H5''	2.19	0.43
36:5:2860:U:OP2	36:5:2860:U:H4'	2.19	0.43
36:5:2924:U:C2	86:B:3401:C:C2	3.07	0.43
36:5:3191:G:C5	36:5:3192:U:C4	3.06	0.43
36:5:3206:C:N3	50:m4:13:ARG:NH2	2.56	0.43
87:5:3576:OHX:N2	51:m5:170:LYS:NZ	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:49:ALA:HB2	49:m3:26:PHE:CE1	2.53	0.43
42:l5:236:LEU:HA	42:l5:239:ILE:HG13	2.01	0.43
44:l7:58:ALA:O	44:l7:61:ASN:HB2	2.18	0.43
45:l8:202:GLU:O	45:l8:203:VAL:HB	2.19	0.43
49:m3:160:GLN:OE1	49:m3:160:GLN:HA	2.18	0.43
50:m4:113:THR:HG22	50:m4:115:PHE:H	1.83	0.43
51:m5:48:ALA:HB1	51:m5:53:TYR:CB	2.49	0.43
59:n3:10:LYS:NZ	59:n3:56:ASP:OD1	2.44	0.43
61:n5:132:ALA:HA	61:n5:135:ILE:CG2	2.49	0.43
62:n6:5:SER:C	62:n6:7:ASP:N	2.77	0.43
64:n8:82:ILE:CD1	64:n8:102:ILE:HG12	2.49	0.43
66:o0:22:LYS:O	66:o0:93:LEU:HB2	2.18	0.43
69:o3:14:LEU:HD23	69:o3:14:LEU:HA	1.76	0.43
71:o5:65:ALA:O	71:o5:69:LEU:HD23	2.19	0.43
73:o7:14:LYS:HD2	75:o9:51:ILE:HD11	2.01	0.43
1:2:112:A:N1	1:2:113:U:C4	2.87	0.43
1:2:123:G:P	6:S4:77:ARG:HH22	2.41	0.43
1:2:248:U:H4'	13:C1:36:LYS:HD3	2.01	0.43
1:2:954:G:C6	1:2:955:A:C5	3.06	0.43
1:2:1138:A:N3	1:2:1139:A:C8	2.86	0.43
1:2:1433:G:H2'	1:2:1434:U:H6	1.83	0.43
1:2:1489:U:H5'	1:2:1494:C:H1'	2.00	0.43
1:2:1662:G:H2'	1:2:1663:G:H8	1.83	0.43
1:2:1747:G:HO2'	36:1:2303:A:HO2'	1.64	0.43
4:S2:104:VAL:O	4:S2:112:GLY:N	2.45	0.43
5:S3:94:ARG:H	5:S3:94:ARG:HG3	1.64	0.43
9:S7:83:LYS:HE2	9:S7:83:LYS:HB3	1.83	0.43
13:C1:128:CYS:HB3	13:C1:129:ARG:O	2.19	0.43
14:C2:52:LEU:HD13	14:C2:85:LYS:NZ	2.33	0.43
22:D0:50:LEU:CD2	22:D0:95:ALA:HB2	2.48	0.43
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.34	0.43
34:SR:195:HIS:CD2	34:SR:199:ILE:HD13	2.54	0.43
36:1:349:A:O4'	38:4:24:G:H1'	2.19	0.43
36:1:595:G:H2'	36:1:596:C:H6	1.82	0.43
36:1:715:A:H4'	36:1:716:A:OP1	2.18	0.43
36:1:815:G:C6	36:1:906:A:C4	3.07	0.43
36:1:1080:A:P	42:L5:140:ARG:HH21	2.41	0.43
36:1:1528:G:C6	36:1:1529:A:C5	3.07	0.43
36:1:1561:G:N1	36:1:1578:C:N4	2.66	0.43
36:1:1569:U:H5''	36:1:1570:U:H6	1.82	0.43
36:1:2154:U:H4'	39:L2:240:ALA:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2513:U:C6	36:1:2592:G:C6	3.07	0.43
36:1:2617:U:C5	36:1:2621:G:OP2	2.71	0.43
36:1:2651:G:H5''	36:1:2652:U:O4'	2.17	0.43
36:1:2734:A:OP2	87:1:3570:OHX:N4	2.52	0.43
36:1:3324:C:C2	36:1:3325:G:C8	3.06	0.43
36:1:3365:U:H2'	36:1:3366:G:C8	2.53	0.43
39:L2:70:ARG:HD2	39:L2:72:ARG:HG2	2.00	0.43
40:L3:35:ASP:OD2	40:L3:37:ARG:NH1	2.35	0.43
40:L3:43:LEU:HD12	40:L3:183:LEU:HD11	2.01	0.43
41:L4:41:SER:HB3	41:L4:111:VAL:HG11	2.00	0.43
41:L4:119:ARG:O	41:L4:120:TYR:C	2.60	0.43
45:L8:112:GLU:O	45:L8:116:VAL:HB	2.18	0.43
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.18	0.43
47:M0:72:ALA:O	47:M0:76:MET:HG3	2.19	0.43
52:M6:156:LEU:HD23	52:M6:156:LEU:HA	1.88	0.43
53:M7:54:HIS:O	53:M7:72:GLN:NE2	2.43	0.43
59:N3:72:LYS:HE2	59:N3:72:LYS:HB2	1.68	0.43
62:N6:36:SER:HB3	62:N6:106:ILE:O	2.19	0.43
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.52	0.43
70:O4:10:ARG:HD2	75:O9:4:GLN:HE22	1.83	0.43
76:Q0:95:VAL:HG11	76:Q0:122:ARG:NH2	2.34	0.43
80:6:325:G:H2'	80:6:326:G:C8	2.54	0.43
80:6:381:C:O2'	80:6:382:C:H5'	2.19	0.43
80:6:1220:C:H4'	81:c0:52:LYS:HE2	2.00	0.43
80:6:1429:G:C6	80:6:1430:U:C4	3.06	0.43
80:6:1634:C:H5'	80:6:1634:C:H6	1.83	0.43
80:6:1758:U:C2	80:6:1759:C:C5	3.07	0.43
3:s1:76:SER:OG	3:s1:78:ASP:HB2	2.19	0.43
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	2.00	0.43
5:s3:101:GLN:OE1	5:s3:122:VAL:HG13	2.18	0.43
6:s4:106:LYS:HD2	6:s4:106:LYS:HA	1.70	0.43
18:c6:18:ALA:CB	18:c6:69:VAL:HG13	2.47	0.43
23:d1:71:ARG:O	23:d1:75:ASN:HB2	2.19	0.43
25:d3:62:LYS:HG3	25:d3:118:PRO:HG3	2.00	0.43
34:sR:126:SER:OG	34:sR:127:ARG:N	2.51	0.43
34:sR:248:ASN:ND2	34:sR:298:GLY:HA3	2.34	0.43
36:5:172:G:H2'	36:5:173:G:H5'	2.01	0.43
36:5:352:A:H61	36:5:365:A:H5''	1.83	0.43
36:5:566:G:N7	87:5:3634:OHX:N5	2.66	0.43
36:5:912:G:H1'	36:5:917:A:C2	2.54	0.43
36:5:1118:C:O2'	36:5:1154:A:N1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1487:G:C2	36:5:1856:C:C2	3.07	0.43
36:5:1621:A:C2	36:5:1825:G:C2	3.07	0.43
36:5:2341:A:H4'	36:5:3090:U:O2'	2.18	0.43
36:5:2864:A:H5''	47:m0:114:GLY:HA2	1.99	0.43
36:5:2873:U:C2	87:5:3705:OHX:N2	2.87	0.43
36:5:2989:U:O2'	40:l3:267:ALA:O	2.30	0.43
36:5:3242:G:H21	36:5:3245:A:H5''	1.82	0.43
37:7:106:U:H2'	37:7:107:C:O4'	2.18	0.43
37:7:109:G:H2'	37:7:110:G:O4'	2.17	0.43
38:8:106:C:H4'	38:8:107:G:H5''	2.00	0.43
40:l3:310:GLY:O	40:l3:311:PHE:C	2.62	0.43
40:l3:334:ARG:HG3	40:l3:335:ILE:N	2.34	0.43
41:l4:338:LYS:HA	41:l4:338:LYS:HD2	1.48	0.43
42:l5:40:HIS:HE1	42:l5:42:ALA:HB3	1.81	0.43
44:l7:235:PHE:N	44:l7:235:PHE:CD2	2.86	0.43
44:l7:239:LEU:O	44:l7:243:MET:HG3	2.19	0.43
45:l8:214:LEU:HD12	45:l8:214:LEU:HA	1.69	0.43
47:m0:156:ARG:C	47:m0:158:LYS:N	2.75	0.43
54:m8:176:ARG:HA	54:m8:182:LYS:O	2.19	0.43
57:n1:106:LEU:H	57:n1:106:LEU:HG	1.65	0.43
63:n7:3:LYS:HE3	63:n7:30:ASP:OD1	2.19	0.43
71:o5:45:LYS:O	71:o5:48:ARG:HB2	2.17	0.43
78:q2:28:TYR:CE1	78:q2:30:ALA:HA	2.54	0.43
1:2:215:A:O2'	87:2:2081:OHX:N3	2.51	0.43
1:2:327:U:H2'	1:2:328:A:H8	1.83	0.43
1:2:458:G:P	26:D4:105:ARG:HH22	2.41	0.43
1:2:1119:G:C6	1:2:1120:U:C4	3.07	0.43
1:2:1138:A:C4	1:2:1139:A:C8	3.07	0.43
1:2:1156:C:H2'	1:2:1157:A:H5'	2.01	0.43
1:2:1480:G:H4'	21:C9:11:ALA:HB1	2.01	0.43
1:2:1514:U:O2	1:2:1514:U:H5'	2.19	0.43
2:S0:88:LYS:HE2	2:S0:88:LYS:HA	2.00	0.43
3:S1:70:LEU:HD13	3:S1:71:ALA:N	2.33	0.43
5:S3:123:VAL:HG13	5:S3:134:CYS:SG	2.59	0.43
5:S3:142:LEU:HD13	5:S3:182:LEU:HD21	2.00	0.43
6:S4:213:SER:O	6:S4:213:SER:OG	2.30	0.43
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	1.74	0.43
7:S5:187:ILE:HD12	7:S5:187:ILE:H	1.82	0.43
15:C3:135:LEU:HD23	15:C3:135:LEU:HA	1.72	0.43
17:C5:30:THR:O	17:C5:33:PHE:N	2.52	0.43
20:C8:41:ARG:CD	21:C9:46:PRO:HD3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:117:SER:HB2	21:C9:123:ARG:H	1.83	0.43
24:D2:77:PRO:HG3	25:D3:7:ARG:O	2.19	0.43
25:D3:69:ARG:O	25:D3:70:LYS:C	2.62	0.43
26:D4:41:ARG:NE	26:D4:55:VAL:O	2.50	0.43
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.18	0.43
34:SR:52:GLN:CD	34:SR:52:GLN:H	2.27	0.43
36:1:187:A:N3	36:1:208:C:O2'	2.42	0.43
36:1:303:G:C2	36:1:313:A:N3	2.86	0.43
36:1:841:A:OP2	87:1:3736:OHX:N2	2.52	0.43
36:1:1362:G:H1'	44:L7:159:GLN:NE2	2.33	0.43
36:1:1725:C:H2'	36:1:1726:C:C6	2.53	0.43
36:1:1762:C:H2'	36:1:1763:U:O4'	2.18	0.43
36:1:2647:A:N6	36:1:2648:G:C5	2.87	0.43
36:1:2702:A:C4	36:1:2704:A:N6	2.87	0.43
37:3:46:A:P	42:L5:158:ARG:HH11	2.42	0.43
37:3:71:G:O2'	37:3:72:A:H5'	2.19	0.43
40:L3:361:THR:CG2	40:L3:371:GLN:HB3	2.49	0.43
41:L4:26:PHE:HZ	41:L4:250:TRP:CZ2	2.37	0.43
42:L5:132:THR:HG21	42:L5:170:GLY:C	2.44	0.43
42:L5:155:THR:HA	42:L5:179:ARG:HD3	2.01	0.43
45:L8:138:HIS:O	45:L8:142:LEU:HG	2.19	0.43
45:L8:152:LEU:HB3	45:L8:180:VAL:CG2	2.49	0.43
46:L9:103:ILE:HD11	46:L9:134:ILE:HG22	1.99	0.43
47:M0:144:ASN:O	47:M0:147:VAL:HB	2.18	0.43
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.84	0.43
53:M7:29:THR:OG1	53:M7:30:ARG:N	2.52	0.43
58:N2:99:LYS:HE3	58:N2:102:GLU:OE1	2.18	0.43
59:N3:95:PHE:CE1	60:N4:22:VAL:HG11	2.53	0.43
62:N6:60:ARG:HA	62:N6:60:ARG:HD3	1.68	0.43
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.01	0.43
64:N8:2:PRO:HD2	64:N8:5:PHE:CD2	2.53	0.43
64:N8:116:GLY:HA2	64:N8:137:LYS:NZ	2.34	0.43
70:O4:46:ASP:HB2	70:O4:80:ARG:CD	2.49	0.43
80:6:59:C:C4	80:6:452:A:C6	3.07	0.43
80:6:423:G:OP1	87:6:1911:OHX:N3	2.51	0.43
80:6:841:U:H2'	80:6:842:C:C6	2.53	0.43
80:6:1233:G:N2	80:6:1253:U:H1'	2.33	0.43
80:6:1243:G:H2'	17:c5:52:LYS:HZ2	1.84	0.43
80:6:1489:U:C4	80:6:1513:G:C6	3.07	0.43
80:6:1663:G:C6	80:6:1664:C:C4	3.07	0.43
87:6:1920:OHX:N5	87:6:2098:OHX:N2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:130:SER:HG	3:s1:180:THR:HG22	1.83	0.43
4:s2:230:TRP:CE3	24:d2:68:ARG:NH1	2.83	0.43
5:s3:223:LYS:HD3	34:sR:193:ILE:HD13	2.00	0.43
6:s4:61:VAL:O	6:s4:64:ILE:HB	2.19	0.43
6:s4:195:ILE:O	6:s4:196:VAL:HG23	2.18	0.43
7:s5:92:ARG:NH2	7:s5:169:ASN:OD1	2.52	0.43
9:s7:16:LEU:O	9:s7:20:VAL:HG23	2.19	0.43
9:s7:137:GLY:H	9:s7:153:LEU:HB2	1.83	0.43
9:s7:154:LEU:HD11	9:s7:183:PHE:CD1	2.53	0.43
81:c0:59:PHE:CZ	81:c0:62:GLN:HA	2.53	0.43
14:c2:32:LEU:O	14:c2:36:LEU:HD12	2.19	0.43
16:c4:99:GLN:CD	28:d6:46:GLU:HB3	2.44	0.43
20:c8:145:ARG:NE	82:sM:68:ARG:CZ	2.81	0.43
21:c9:33:TYR:OH	21:c9:103:LYS:HD2	2.19	0.43
22:d0:63:LEU:HB2	22:d0:84:MET:HB3	2.01	0.43
23:d1:56:SER:O	23:d1:60:ARG:HG3	2.18	0.43
23:d1:74:GLN:OE1	23:d1:83:TRP:N	2.51	0.43
36:5:597:G:OP1	44:l7:37:ASN:HB3	2.19	0.43
36:5:648:C:H4'	36:5:649:A:O5'	2.18	0.43
36:5:966:U:N3	36:5:967:A:N7	2.66	0.43
36:5:1234:G:H2'	36:5:1235:U:C5	2.53	0.43
36:5:1284:C:O2'	36:5:1285:G:H5'	2.19	0.43
36:5:1348:U:O4'	36:5:1355:A:N6	2.52	0.43
36:5:1469:C:O2'	36:5:1509:A:H2	2.01	0.43
36:5:1595:U:C2	36:5:1596:C:C4	3.07	0.43
36:5:1942:U:O2	36:5:2107:A:C2	2.72	0.43
36:5:2412:G:C2	36:5:2413:A:C4	3.06	0.43
36:5:2416:U:H2'	36:5:2417:U:C6	2.54	0.43
36:5:2584:G:H5'	36:5:2585:G:OP2	2.17	0.43
36:5:3107:U:P	76:q0:112:LYS:NZ	2.92	0.43
36:5:3275:U:O2'	36:5:3276:G:N1	2.43	0.43
39:l2:65:ASP:HB3	39:l2:68:LYS:O	2.18	0.43
39:l2:128:ARG:HA	39:l2:169:ILE:CD1	2.49	0.43
40:l3:361:THR:HG22	40:l3:371:GLN:HB3	2.00	0.43
41:l4:23:PRO:O	41:l4:24:ALA:HB3	2.18	0.43
42:l5:279:LYS:CE	42:l5:282:ARG:HH12	2.32	0.43
43:l6:51:ARG:HD3	43:l6:158:TYR:CZ	2.53	0.43
43:l6:105:TYR:C	43:l6:105:TYR:HD1	2.27	0.43
44:l7:180:SER:H	44:l7:183:ASP:HB2	1.84	0.43
45:l8:68:ARG:O	45:l8:69:LEU:HB2	2.18	0.43
45:l8:71:VAL:HG22	51:m5:21:PHE:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:5:LYS:HA	51:m5:5:LYS:HD3	1.73	0.43
51:m5:113:LEU:HD13	51:m5:134:LEU:HB2	2.00	0.43
56:n0:25:PHE:HD1	57:n1:149:GLN:O	2.01	0.43
57:n1:32:LYS:HZ1	57:n1:98:HIS:H	1.65	0.43
60:n4:120:LYS:O	60:n4:123:ARG:HB2	2.18	0.43
62:n6:56:VAL:HG11	62:n6:104:LEU:HD13	2.00	0.43
64:n8:44:ASN:HD22	64:n8:44:ASN:C	2.27	0.43
65:n9:4:SER:O	65:n9:5:LYS:C	2.61	0.43
68:o2:9:ILE:HG23	68:o2:63:THR:HB	2.00	0.43
68:o2:74:PHE:HD2	68:o2:76:VAL:HG23	1.83	0.43
69:o3:6:ARG:HG3	69:o3:8:TYR:CZ	2.54	0.43
84:p0:53:MET:SD	84:p0:85:GLY:HA3	2.59	0.43
1:2:162:A:C6	1:2:163:G:C6	3.07	0.43
1:2:553:G:OP2	1:2:554:C:O2'	2.36	0.43
1:2:679:U:OP2	87:2:2084:OHX:N1	2.52	0.43
1:2:764:U:OP2	11:S9:78:ARG:NH1	2.52	0.43
1:2:766:U:H3'	1:2:768:C:OP2	2.19	0.43
1:2:976:G:H5''	1:2:977:A:OP1	2.18	0.43
1:2:1227:A:C2	1:2:1229:G:N2	2.87	0.43
1:2:1535:U:H6	1:2:1535:U:H2'	1.65	0.43
2:S0:74:VAL:HG12	2:S0:76:ILE:HG13	2.01	0.43
2:S0:188:LEU:HD12	2:S0:189:VAL:HG12	2.00	0.43
4:S2:44:LEU:HD21	4:S2:247:ALA:HB2	2.00	0.43
4:S2:68:ILE:O	4:S2:72:LEU:HB2	2.17	0.43
8:S6:148:SER:C	8:S6:150:GLU:N	2.74	0.43
11:S9:129:ILE:HG12	11:S9:134:ILE:CD1	2.47	0.43
11:S9:151:ASP:N	11:S9:151:ASP:OD1	2.50	0.43
13:C1:131:ILE:HA	13:C1:131:ILE:HD13	1.82	0.43
17:C5:111:MET:HG2	20:C8:119:ILE:HG23	2.00	0.43
20:C8:83:ALA:HA	20:C8:86:LEU:HD22	2.00	0.43
21:C9:135:ILE:HD12	21:C9:136:ALA:N	2.33	0.43
34:SR:36:ALA:HB2	34:SR:71:CYS:HB3	2.01	0.43
35:SM:43:ASP:OD2	35:SM:45:SER:HB2	2.18	0.43
35:SM:107:ASN:CG	35:SM:112:ASP:HB3	2.44	0.43
35:SM:116:GLU:O	35:SM:117:LEU:C	2.61	0.43
36:1:386:A:C5	36:1:387:A:H1'	2.54	0.43
36:1:590:G:O2'	41:L4:309:ARG:NH1	2.52	0.43
36:1:636:C:O2	36:1:646:A:H1'	2.19	0.43
36:1:1362:G:H4'	44:L7:159:GLN:C	2.44	0.43
36:1:1523:U:O2'	36:1:1607:U:O2'	2.29	0.43
36:1:1689:U:C4	36:1:1690:C:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2718:U:H2'	36:1:2719:U:C6	2.54	0.43
36:1:3037:U:H2'	36:1:3038:U:H6	1.84	0.43
36:1:3086:A:C2'	36:1:3087:A:H5'	2.49	0.43
36:1:3151:U:OP1	40:L3:128:LYS:NZ	2.52	0.43
36:1:3298:C:C2	36:1:3299:A:C8	3.07	0.43
37:3:31:U:O2'	37:3:32:U:H5'	2.19	0.43
38:4:71:A:H4'	38:4:72:A:O5'	2.18	0.43
43:L6:22:ARG:O	43:L6:23:LYS:HG2	2.19	0.43
43:L6:35:VAL:O	43:L6:36:PRO:C	2.62	0.43
44:L7:92:ILE:HD11	54:M8:4:ASP:N	2.34	0.43
45:L8:101:THR:CG2	45:L8:103:ALA:HB3	2.49	0.43
46:L9:49:ASN:C	46:L9:51:GLN:N	2.72	0.43
46:L9:172:ILE:HD12	76:Q0:90:ASN:HB3	2.01	0.43
47:M0:52:LEU:HD23	47:M0:52:LEU:HA	1.62	0.43
51:M5:164:LEU:HD23	51:M5:172:ARG:HH12	1.83	0.43
53:M7:48:LEU:HB3	53:M7:88:VAL:HG13	1.99	0.43
58:N2:84:LEU:HD13	58:N2:93:ILE:O	2.18	0.43
62:N6:73:VAL:HG13	62:N6:80:VAL:HG23	2.01	0.43
67:O1:55:LEU:HA	67:O1:58:ALA:HB3	2.01	0.43
72:O6:11:LEU:HA	72:O6:11:LEU:HD13	1.66	0.43
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	2.01	0.43
80:6:18:C:C4	80:6:19:A:N7	2.87	0.43
80:6:103:A:H4'	80:6:104:A:O5'	2.19	0.43
80:6:138:A:C8	80:6:142:G:H5'	2.54	0.43
80:6:778:G:C4	80:6:780:A:C8	3.07	0.43
80:6:959:U:H5''	15:c3:15:ALA:O	2.19	0.43
80:6:1087:A:H5'	80:6:1298:U:C4	2.54	0.43
80:6:1358:G:H2'	80:6:1359:C:H6	1.84	0.43
80:6:1539:G:C4	20:c8:30:TYR:CE2	3.07	0.43
80:6:1675:C:H1'	10:s8:32:GLN:OE1	2.19	0.43
2:s0:102:PHE:O	2:s0:103:THR:HB	2.19	0.43
2:s0:106:SER:O	2:s0:115:PHE:HD2	2.02	0.43
2:s0:137:SER:HB3	2:s0:155:PHE:CD1	2.54	0.43
3:s1:184:LEU:O	3:s1:188:LEU:HG	2.18	0.43
9:s7:152:VAL:C	9:s7:153:LEU:HD23	2.43	0.43
13:c1:18:HIS:O	13:c1:19:ILE:HD13	2.19	0.43
17:c5:52:LYS:HA	17:c5:52:LYS:HD2	1.82	0.43
18:c6:82:ARG:HH12	18:c6:114:ARG:HG3	1.83	0.43
28:d6:20:PRO:HA	28:d6:31:PRO:HA	2.00	0.43
30:d8:54:LEU:HD12	30:d8:55:VAL:H	1.84	0.43
82:sM:123:UNK:O	82:sM:127:UNK:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:306:A:N6	36:5:2784:G:C2	2.86	0.43
36:5:1489:A:OP1	70:o4:10:ARG:HD2	2.19	0.43
36:5:1665:C:H42	36:5:1784:G:H1	1.67	0.43
36:5:2112:U:O2	36:5:2113:A:N6	2.51	0.43
36:5:2194:G:H2'	36:5:2195:C:H6	1.82	0.43
36:5:2731:U:H2'	36:5:2732:G:H8	1.82	0.43
36:5:3136:G:C5	36:5:3137:C:C5	3.06	0.43
36:5:3279:A:C6	36:5:3280:U:C4	3.06	0.43
38:8:30:C:H2'	38:8:31:G:H8	1.83	0.43
38:8:142:C:H2'	38:8:143:U:C6	2.54	0.43
39:l2:230:VAL:O	39:l2:233:GLN:HB2	2.19	0.43
39:l2:242:ARG:NH1	39:l2:246:LEU:HD12	2.34	0.43
40:l3:114:VAL:HG22	40:l3:163:HIS:NE2	2.34	0.43
40:l3:148:LEU:HD12	40:l3:148:LEU:HA	1.89	0.43
41:l4:179:LEU:O	41:l4:180:LYS:C	2.60	0.43
42:l5:152:ARG:HH11	42:l5:152:ARG:CG	2.31	0.43
47:m0:3:ARG:NH2	47:m0:63:GLU:HG3	2.34	0.43
47:m0:159:PHE:HA	47:m0:160:PRO:HD2	1.82	0.43
51:m5:61:ILE:HD13	51:m5:133:ILE:HA	1.99	0.43
52:m6:188:SER:O	52:m6:192:LYS:HG2	2.18	0.43
70:o4:38:LEU:H	70:o4:38:LEU:HD12	1.84	0.43
1:2:550:A:C2	1:2:557:G:C5	3.07	0.43
1:2:755:A:H2'	1:2:756:A:O4'	2.19	0.43
1:2:810:G:C5	9:S7:111:LYS:HE3	2.54	0.43
1:2:902:G:H2'	1:2:903:U:C6	2.54	0.43
1:2:1117:U:C2	1:2:1118:G:C8	3.07	0.43
1:2:1346:A:H8	1:2:1370:U:O2	2.02	0.43
1:2:1434:U:O2'	1:2:1436:A:OP1	2.34	0.43
1:2:1586:A:H1'	1:2:1611:A:H61	1.82	0.43
1:2:1609:U:OP2	18:C6:14:LYS:NZ	2.51	0.43
1:2:1734:U:H2'	1:2:1735:U:O4'	2.18	0.43
2:S0:112:THR:O	2:S0:115:PHE:HB2	2.19	0.43
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.19	0.43
8:S6:174:LYS:O	8:S6:174:LYS:HG3	2.19	0.43
11:S9:107:ARG:NH2	11:S9:148:VAL:HG12	2.34	0.43
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	2.01	0.43
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.34	0.43
17:C5:32:ASP:O	17:C5:36:LEU:HD23	2.18	0.43
17:C5:69:GLU:CD	87:C5:201:OHX:N6	2.76	0.43
18:C6:19:VAL:O	18:C6:67:VAL:HG13	2.19	0.43
22:D0:23:ARG:O	22:D0:117:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D9:14:TYR:CD2	31:D9:14:TYR:C	2.96	0.43
36:1:293:C:O2'	72:O6:76:ARG:O	2.27	0.43
36:1:608:A:H5''	36:1:609:G:OP2	2.19	0.43
36:1:748:U:H2'	36:1:749:C:C6	2.54	0.43
36:1:1277:C:O2'	36:1:1278:A:H8	2.01	0.43
36:1:1472:U:H2'	36:1:1473:G:C8	2.50	0.43
36:1:1560:G:C6	36:1:1580:A:N1	2.87	0.43
36:1:1821:U:O2	70:O4:67:LYS:HB2	2.19	0.43
36:1:1930:A:H5'	36:1:1932:A:O2'	2.18	0.43
36:1:2424:A:H2'	36:1:2425:G:O4'	2.18	0.43
36:1:2615:G:H2'	36:1:2616:C:C6	2.54	0.43
36:1:2718:U:O4	87:1:3706:OHX:N3	2.52	0.43
36:1:2871:G:H5'	36:1:2872:A:C5'	2.47	0.43
36:1:3064:U:C2	36:1:3065:G:C8	3.06	0.43
37:3:22:A:H1'	42:L5:272:TYR:CE1	2.53	0.43
37:3:37:G:N1	37:3:41:G:C2	2.87	0.43
42:L5:40:HIS:NE2	42:L5:42:ALA:HB3	2.34	0.43
42:L5:78:ALA:HB1	42:L5:104:LEU:HD23	2.01	0.43
42:L5:215:ASP:OD1	42:L5:218:ARG:HG3	2.18	0.43
44:L7:43:ILE:HA	44:L7:46:GLU:OE1	2.19	0.43
44:L7:83:LEU:HD21	44:L7:116:PHE:HB3	2.01	0.43
45:L8:246:MET:HB2	45:L8:246:MET:HE3	1.56	0.43
48:M1:141:ARG:H	48:M1:141:ARG:HG2	1.59	0.43
49:M3:47:ALA:CB	49:M3:48:PRO:HD2	2.48	0.43
51:M5:96:ARG:HH11	51:M5:96:ARG:HG2	1.83	0.43
51:M5:172:ARG:CZ	51:M5:174:ILE:HD11	2.48	0.43
56:N0:7:TYR:CE1	56:N0:34:GLU:HG2	2.53	0.43
56:N0:8:GLN:HB3	56:N0:64:ILE:HD11	2.01	0.43
59:N3:48:ARG:HG3	59:N3:48:ARG:HH11	1.84	0.43
59:N3:83:LYS:HE2	59:N3:84:SER:N	2.34	0.43
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.72	0.43
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.54	0.43
69:O3:29:LEU:HD22	69:O3:75:HIS:NE2	2.34	0.43
70:O4:5:VAL:HG22	70:O4:32:ALA:HB2	1.99	0.43
70:O4:56:THR:HA	70:O4:62:TYR:OH	2.18	0.43
72:O6:26:ILE:C	72:O6:28:TYR:H	2.27	0.43
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.18	0.43
80:6:15:U:H5'	80:6:619:A:N6	2.34	0.43
80:6:69:G:H2'	80:6:70:C:C6	2.54	0.43
80:6:116:U:C2	80:6:117:U:C5	3.07	0.43
80:6:521:A:H2'	80:6:522:U:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:523:G:H5'	26:d4:60:PHE:O	2.18	0.43
80:6:545:A:C6	80:6:594:A:C8	3.06	0.43
80:6:961:U:H2'	80:6:962:C:C6	2.54	0.43
80:6:1003:A:C2	80:6:1005:A:C2	3.06	0.43
80:6:1699:G:H1	80:6:1702:A:H5''	1.84	0.43
3:s1:48:VAL:HG11	3:s1:57:ALA:HB1	2.01	0.43
3:s1:87:ARG:NH2	3:s1:220:GLN:OE1	2.52	0.43
5:s3:116:ARG:HG2	5:s3:120:TYR:CE2	2.54	0.43
5:s3:179:GLN:HB3	5:s3:180:GLY:H	1.65	0.43
6:s4:103:TYR:CE2	6:s4:189:LEU:HD11	2.54	0.43
6:s4:134:LYS:O	6:s4:136:VAL:HG23	2.19	0.43
7:s5:72:HIS:ND1	18:c6:79:TYR:OH	2.52	0.43
8:s6:77:LEU:HD23	8:s6:77:LEU:HA	1.80	0.43
14:c2:56:GLU:HG2	82:sM:171:UNK:CB	2.49	0.43
15:c3:136:PRO:O	15:c3:138:ASN:N	2.52	0.43
17:c5:137:ARG:C	87:c5:202:OHX:N4	2.75	0.43
19:c7:14:LYS:HG3	19:c7:69:ILE:CG2	2.49	0.43
19:c7:46:LEU:HD23	19:c7:46:LEU:HA	1.83	0.43
20:c8:65:GLU:HG2	20:c8:68:ARG:NH2	2.34	0.43
25:d3:86:PHE:CE1	25:d3:88:PRO:HB3	2.52	0.43
36:5:271:C:H2'	36:5:272:G:O4'	2.19	0.43
36:5:342:A:C2	36:5:368:G:C8	3.07	0.43
36:5:430:U:H2'	36:5:431:U:O4'	2.19	0.43
36:5:1312:C:H2'	36:5:1313:G:O4'	2.18	0.43
36:5:1556:C:N4	36:5:2169:G:O4'	2.52	0.43
36:5:1742:U:H2'	36:5:1743:G:C8	2.54	0.43
36:5:1760:A:C2	36:5:1766:G:C2	3.07	0.43
36:5:2255:A:OP2	36:5:2261:G:N2	2.50	0.43
36:5:2912:G:H1'	36:5:3131:U:OP1	2.19	0.43
36:5:3100:U:O2'	36:5:3101:G:H5''	2.18	0.43
36:5:3268:A:O2'	36:5:3269:U:H6	2.02	0.43
37:7:28:C:O2'	37:7:55:A:N1	2.47	0.43
38:8:99:C:OP1	61:n5:53:HIS:NE2	2.52	0.43
39:l2:128:ARG:HA	39:l2:169:ILE:HD13	2.01	0.43
41:l4:131:VAL:HB	41:l4:134:LEU:HG	1.99	0.43
42:l5:79:TYR:H	42:l5:82:GLU:HG3	1.84	0.43
45:l8:24:ASN:O	45:l8:25:PRO:C	2.61	0.43
45:l8:63:LYS:O	45:l8:67:ILE:HG12	2.19	0.43
49:m3:124:ILE:HD13	49:m3:126:PHE:HE1	1.83	0.43
51:m5:183:THR:O	51:m5:184:LYS:HB3	2.17	0.43
56:n0:10:ILE:O	56:n0:59:VAL:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:n0:110:MET:HE3	56:n0:110:MET:HB3	1.87	0.43
62:n6:37:LYS:H	62:n6:37:LYS:CE	2.31	0.43
64:n8:36:GLY:HA3	64:n8:40:HIS:CE1	2.53	0.43
85:p1:41:UNK:C	85:p1:43:UNK:H	2.32	0.43
1:2:77:U:H4'	1:2:78:A:O5'	2.18	0.42
1:2:188:A:H2'	1:2:189:C:O4'	2.18	0.42
1:2:288:A:H2'	1:2:289:U:H6	1.82	0.42
1:2:346:G:O6	87:2:2009:OHX:N5	2.51	0.42
1:2:775:G:C6	1:2:786:C:N4	2.87	0.42
1:2:781:U:O2'	1:2:782:U:H6	2.02	0.42
1:2:867:G:H5'	15:C3:4:MET:HE3	2.01	0.42
1:2:1061:A:H2'	1:2:1062:A:H5'	2.00	0.42
1:2:1291:G:N2	1:2:1324:G:H22	2.16	0.42
1:2:1354:G:N3	1:2:1372:U:N3	2.67	0.42
1:2:1373:C:O2'	1:2:1374:C:H5'	2.19	0.42
1:2:1494:C:H2'	1:2:1495:C:C6	2.53	0.42
1:2:1797:A:C5	28:D6:87:ARG:NH1	2.87	0.42
87:2:1909:OHX:N6	87:2:2035:OHX:N2	2.67	0.42
2:S0:84:ARG:HB3	2:S0:203:PHE:O	2.19	0.42
3:S1:190:PRO:C	3:S1:191:GLU:HG2	2.44	0.42
3:S1:193:ILE:O	3:S1:197:ILE:HG12	2.19	0.42
5:S3:29:LEU:HB2	5:S3:34:TYR:HB2	2.01	0.42
5:S3:105:MET:O	5:S3:106:LYS:C	2.61	0.42
5:S3:215:GLU:HG2	5:S3:215:GLU:O	2.19	0.42
7:S5:156:ARG:H	7:S5:156:ARG:HG3	1.63	0.42
12:C0:71:GLU:H	12:C0:71:GLU:HG2	1.66	0.42
13:C1:5:LEU:HD23	13:C1:5:LEU:HA	1.84	0.42
23:D1:16:LYS:HE3	23:D1:16:LYS:HB2	1.67	0.42
24:D2:42:GLN:HG2	24:D2:43:LYS:N	2.32	0.42
30:D8:50:GLU:O	30:D8:51:ASN:HB2	2.17	0.42
36:1:103:G:H5'	49:M3:65:TYR:CD1	2.54	0.42
36:1:225:C:O2'	62:N6:32:SER:HB2	2.19	0.42
36:1:531:G:N7	87:1:3681:OHX:N5	2.67	0.42
36:1:595:G:C6	36:1:596:C:C4	3.07	0.42
36:1:768:C:O3'	49:M3:179:PHE:CE2	2.72	0.42
36:1:867:G:C6	36:1:868:C:C4	3.07	0.42
36:1:966:U:H2'	36:1:967:A:C8	2.54	0.42
36:1:1019:G:N2	36:1:1034:U:H1'	2.34	0.42
36:1:1207:G:N7	87:1:3603:OHX:N2	2.67	0.42
36:1:1585:C:O2'	36:1:1586:G:H5'	2.19	0.42
36:1:2298:U:O2'	36:1:2299:A:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2677:G:H2'	36:1:2679:A:C2	2.53	0.42
36:1:3059:G:O2'	36:1:3060:C:H5'	2.18	0.42
37:3:5:G:H8	37:3:5:G:O5'	2.02	0.42
40:L3:282:ILE:HD13	40:L3:322:ILE:HD12	2.01	0.42
41:L4:198:ARG:HH22	62:N6:12:ARG:NH1	2.17	0.42
43:L6:130:ILE:CG2	43:L6:135:VAL:HG23	2.49	0.42
49:M3:116:LEU:HD23	49:M3:116:LEU:HA	1.68	0.42
51:M5:41:ARG:CZ	51:M5:41:ARG:HB3	2.49	0.42
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.54	0.42
57:N1:119:ALA:HB3	57:N1:126:VAL:HG13	2.01	0.42
58:N2:59:ASP:O	58:N2:61:THR:N	2.47	0.42
61:N5:69:SER:H	61:N5:72:ALA:HB3	1.84	0.42
62:N6:118:LEU:O	62:N6:122:LYS:HG3	2.18	0.42
71:O5:53:CYS:O	71:O5:57:VAL:HG23	2.18	0.42
80:6:147:A:H2'	80:6:148:A:O4'	2.18	0.42
80:6:336:G:H2'	80:6:338:C:H5	1.84	0.42
80:6:577:G:N2	87:6:2015:OHX:N4	2.67	0.42
80:6:595:G:C6	80:6:596:C:C4	3.07	0.42
80:6:1195:C:H5''	80:6:1197:C:C6	2.54	0.42
80:6:1218:G:O4'	80:6:1444:A:N6	2.52	0.42
80:6:1333:C:O4'	5:s3:162:GLN:HG3	2.19	0.42
80:6:1338:C:C1'	80:6:1410:A:C4	3.02	0.42
80:6:1498:G:OP1	21:c9:75:LYS:HD2	2.19	0.42
3:s1:103:MET:HB3	3:s1:215:VAL:HG12	2.00	0.42
4:s2:146:THR:HG22	4:s2:148:LEU:HB2	2.01	0.42
5:s3:164:VAL:O	5:s3:168:ILE:HG13	2.19	0.42
13:c1:128:CYS:O	13:c1:128:CYS:SG	2.76	0.42
13:c1:132:SER:O	13:c1:133:LYS:C	2.61	0.42
15:c3:40:TYR:CE1	15:c3:53:LEU:HD23	2.54	0.42
18:c6:109:PHE:HB2	18:c6:117:LEU:HD22	2.01	0.42
19:c7:27:ASP:HB2	34:sR:19:TRP:HH2	1.83	0.42
26:d4:122:GLY:C	26:d4:125:LEU:H	2.26	0.42
32:e0:51:ASN:HB3	32:e0:53:LYS:HG2	2.01	0.42
34:sR:232:TYR:N	34:sR:232:TYR:CD2	2.87	0.42
36:5:54:C:O2'	36:5:1547:G:H1'	2.19	0.42
36:5:204:A:H2'	36:5:205:C:O4'	2.18	0.42
36:5:229:G:H5''	62:n6:4:GLN:HB2	2.01	0.42
36:5:628:A:H2'	36:5:629:U:O4'	2.19	0.42
36:5:677:A:H4'	36:5:678:G:O5'	2.19	0.42
36:5:765:C:H1'	36:5:766:U:OP1	2.19	0.42
36:5:1175:C:H5''	52:m6:25:LYS:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1367:G:OP1	68:o2:45:ARG:NH2	2.52	0.42
36:5:1500:G:H2'	36:5:1501:U:O4'	2.19	0.42
36:5:1517:G:C5	36:5:1518:U:C4	3.07	0.42
36:5:1803:C:H5'	70:o4:63:ALA:HB2	2.00	0.42
36:5:2279:A:H2'	36:5:2288:G:O6	2.19	0.42
36:5:2396:G:OP1	36:5:2397:A:H4'	2.18	0.42
36:5:2562:A:N6	36:5:2579:G:O2'	2.52	0.42
36:5:3251:U:H2'	36:5:3252:G:C8	2.54	0.42
36:5:3356:G:H2'	36:5:3357:U:H6	1.84	0.42
36:5:3384:U:C2	36:5:3385:U:C5	3.06	0.42
38:8:49:G:O2'	71:o5:40:SER:HA	2.19	0.42
39:l2:14:SER:OG	39:l2:15:ILE:N	2.52	0.42
40:l3:108:GLU:HG3	40:l3:137:TYR:CD2	2.54	0.42
40:l3:296:THR:HG21	40:l3:357:LYS:C	2.44	0.42
41:l4:9:HIS:CE1	41:l4:146:PRO:HG2	2.54	0.42
41:l4:313:LEU:HD23	41:l4:313:LEU:HA	1.88	0.42
46:l9:90:MET:HE2	46:l9:90:MET:HB3	1.84	0.42
47:m0:212:GLU:C	47:m0:214:PRO:HD3	2.44	0.42
49:m3:93:ILE:HG22	49:m3:94:GLY:N	2.28	0.42
52:m6:51:LYS:O	52:m6:55:HIS:HD2	2.02	0.42
54:m8:53:PHE:N	54:m8:53:PHE:CD1	2.87	0.42
56:n0:28:ARG:NH2	56:n0:64:ILE:HD13	2.33	0.42
58:n2:33:TYR:O	58:n2:37:LEU:HB2	2.19	0.42
62:n6:86:THR:C	62:n6:97:ILE:HD12	2.44	0.42
63:n7:4:PHE:CE2	66:o0:63:SER:HB3	2.53	0.42
78:q2:12:CYS:SG	78:q2:17:CYS:HB3	2.58	0.42
1:2:410:A:C6	1:2:411:C:C4	3.07	0.42
1:2:707:A:H2	1:2:731:C:H2'	1.84	0.42
1:2:740:A:C2'	1:2:741:C:H5''	2.45	0.42
1:2:753:A:OP1	6:S4:220:THR:HG22	2.20	0.42
1:2:864:U:H5	29:D7:22:LYS:HG2	1.83	0.42
1:2:909:U:O2'	1:2:910:C:H5'	2.19	0.42
1:2:931:C:H1'	3:S1:120:LEU:HB2	2.01	0.42
1:2:1059:U:O2'	1:2:1060:U:C4	2.73	0.42
1:2:1106:U:O2'	1:2:1107:G:H5'	2.18	0.42
1:2:1213:G:C6	1:2:1214:U:C5	3.07	0.42
1:2:1402:G:P	19:C7:10:LYS:HZ1	2.42	0.42
1:2:1660:A:H2'	1:2:1661:U:H6	1.84	0.42
4:S2:53:ILE:HG22	4:S2:56:ILE:HB	2.01	0.42
6:S4:37:LYS:HZ3	6:S4:37:LYS:HG3	1.71	0.42
7:S5:30:PRO:HB2	7:S5:33:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:44:ASN:OD1	7:S5:70:VAL:HG12	2.18	0.42
9:S7:70:PHE:O	9:S7:74:GLN:HB2	2.19	0.42
9:S7:157:LYS:C	9:S7:159:VAL:N	2.77	0.42
12:C0:6:GLU:O	12:C0:10:LYS:HG3	2.19	0.42
13:C1:39:GLY:C	13:C1:41:GLY:N	2.76	0.42
14:C2:30:VAL:HB	14:C2:132:GLU:HG3	2.02	0.42
15:C3:58:HIS:CD2	15:C3:58:HIS:N	2.87	0.42
18:C6:18:ALA:CB	18:C6:69:VAL:HG13	2.48	0.42
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.91	0.42
33:E1:103:LEU:HD23	33:E1:103:LEU:HA	1.65	0.42
34:SR:273:ASP:CG	34:SR:275:ARG:HH22	2.27	0.42
36:1:239:G:O3'	71:O5:94:LYS:NZ	2.44	0.42
36:1:555:U:H6	36:1:555:U:H2'	1.64	0.42
36:1:563:U:H2'	36:1:564:G:H8	1.84	0.42
36:1:597:G:OP1	44:L7:41:ARG:HD2	2.19	0.42
36:1:637:C:C2	36:1:638:C:C5	3.06	0.42
36:1:648:C:H4'	36:1:649:A:O5'	2.19	0.42
36:1:1626:U:O4	87:1:3732:OHX:N6	2.52	0.42
36:1:2562:A:H2	45:L8:31:PRO:HD3	1.83	0.42
36:1:2762:A:OP2	87:1:3471:OHX:N4	2.52	0.42
36:1:2796:G:H4'	36:1:2798:C:C6	2.54	0.42
36:1:2816:G:C8	36:1:2869:U:H3'	2.54	0.42
36:1:2997:G:C1'	36:1:3396:U:H5'	2.49	0.42
36:1:3019:U:H2'	36:1:3020:U:O4'	2.19	0.42
36:1:3355:U:H3'	36:1:3356:G:H5''	2.01	0.42
37:3:109:G:C6	37:3:110:G:N7	2.86	0.42
38:4:140:G:C6	38:4:141:C:C4	3.07	0.42
39:L2:177:LYS:HE2	79:Q3:69:TYR:CE1	2.54	0.42
42:L5:111:GLN:C	42:L5:113:LEU:H	2.26	0.42
43:L6:30:LEU:HD13	43:L6:34:LEU:CD1	2.49	0.42
44:L7:83:LEU:HB2	44:L7:191:VAL:CG2	2.49	0.42
44:L7:103:LEU:HA	44:L7:103:LEU:HD23	1.74	0.42
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.19	0.42
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.19	0.42
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.52	0.42
53:M7:40:GLU:HB3	53:M7:43:LYS:HB2	2.01	0.42
53:M7:173:ARG:H	53:M7:173:ARG:HG3	1.65	0.42
55:M9:138:LEU:HD22	55:M9:142:ILE:HD11	2.01	0.42
58:N2:76:LEU:O	58:N2:80:THR:HG23	2.18	0.42
60:N4:55:PHE:CD1	60:N4:55:PHE:C	2.96	0.42
69:O3:6:ARG:HG3	69:O3:8:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:38:PRO:HD2	69:O3:39:GLN:HE22	1.84	0.42
80:6:224:C:H42	80:6:837:G:H1	1.65	0.42
80:6:293:U:H2'	80:6:294:C:C6	2.54	0.42
80:6:710:U:O2	80:6:729:G:C6	2.72	0.42
80:6:810:G:C2	9:s7:111:LYS:HA	2.54	0.42
80:6:839:U:H2'	80:6:840:U:H6	1.84	0.42
80:6:1001:A:C6	80:6:1002:G:C6	3.07	0.42
80:6:1294:G:H4'	2:s0:109:ASN:HB2	2.01	0.42
80:6:1341:A:OP1	34:sR:63:GLY:HA2	2.19	0.42
3:s1:66:VAL:HG13	16:c4:33:LEU:HB3	2.01	0.42
3:s1:121:ILE:HG23	3:s1:161:ILE:HG23	2.00	0.42
3:s1:126:THR:HG22	3:s1:136:ARG:NE	2.34	0.42
4:s2:78:ASP:HA	4:s2:104:VAL:HG12	2.00	0.42
4:s2:180:ALA:HB2	4:s2:198:THR:HG21	2.01	0.42
5:s3:53:THR:HG22	5:s3:91:VAL:CG1	2.46	0.42
6:s4:89:VAL:HG12	6:s4:90:ILE:N	2.34	0.42
7:s5:144:GLU:HG2	30:d8:57:MET:HG3	2.01	0.42
10:s8:172:ARG:HE	10:s8:175:GLN:HG3	1.84	0.42
81:c0:76:LEU:O	81:c0:79:TYR:N	2.52	0.42
15:c3:91:LEU:HD12	15:c3:125:LEU:HD12	2.01	0.42
17:c5:124:THR:O	17:c5:125:PRO:C	2.62	0.42
24:d2:15:ASN:OD1	24:d2:71:LYS:HA	2.19	0.42
25:d3:52:ILE:HG22	25:d3:99:ASN:HA	2.00	0.42
26:d4:34:ASN:HB3	26:d4:35:VAL:H	1.57	0.42
29:d7:19:HIS:CE1	29:d7:21:LEU:HG	2.53	0.42
32:e0:46:ASN:OD1	32:e0:47:VAL:N	2.52	0.42
36:5:48:A:O4'	36:5:50:U:C6	2.72	0.42
36:5:266:A:H2'	72:o6:30:LYS:HE3	2.02	0.42
36:5:602:A:H2'	36:5:603:A:C8	2.54	0.42
36:5:608:A:C4	43:l6:22:ARG:NH1	2.87	0.42
36:5:702:C:O2'	36:5:788:C:H5''	2.19	0.42
36:5:818:C:H5''	73:o7:10:LYS:HB2	2.01	0.42
36:5:944:C:H2'	36:5:945:C:C6	2.52	0.42
36:5:1130:A:C8	36:5:1132:C:C6	3.07	0.42
36:5:1212:A:N3	56:n0:114:HIS:HE1	2.17	0.42
36:5:1340:G:H2'	36:5:1341:U:C6	2.54	0.42
36:5:1401:A:C2	36:5:1411:C:C2	3.06	0.42
36:5:1481:A:N3	70:o4:4:ARG:CZ	2.83	0.42
36:5:1493:G:OP2	36:5:1493:G:N2	2.34	0.42
36:5:1593:A:N3	36:5:1615:C:O2'	2.45	0.42
36:5:1685:C:H2'	36:5:1686:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1712:G:H8	36:5:1712:G:O5'	2.01	0.42
36:5:1831:U:OP1	61:n5:92:LYS:HG3	2.20	0.42
36:5:2249:G:H5''	36:5:2249:G:H8	1.84	0.42
36:5:2439:A:OP1	36:5:2439:A:H4'	2.18	0.42
36:5:2656:A:C8	36:5:2658:G:C8	3.07	0.42
36:5:2854:U:H4'	47:m0:160:PRO:HD3	2.01	0.42
36:5:2885:C:O2'	36:5:2886:U:H5'	2.20	0.42
36:5:3164:C:C2	36:5:3165:A:C8	3.07	0.42
37:7:4:U:H2'	37:7:5:G:C8	2.54	0.42
38:8:85:G:H3'	38:8:85:G:C8	2.54	0.42
41:l4:25:VAL:HG22	41:l4:262:TRP:HB2	2.00	0.42
41:l4:31:ARG:NH2	41:l4:34:ILE:HD11	2.34	0.42
42:l5:59:ASP:OD1	42:l5:81:HIS:ND1	2.51	0.42
42:l5:223:PHE:O	42:l5:224:LYS:C	2.62	0.42
45:l8:113:ALA:O	45:l8:117:ALA:HB3	2.19	0.42
46:l9:88:TYR:CZ	46:l9:155:SER:HB3	2.55	0.42
49:m3:45:LYS:HE3	49:m3:45:LYS:HB2	1.79	0.42
50:m4:50:LYS:HD3	50:m4:85:TRP:CD1	2.54	0.42
61:n5:64:GLU:OE2	61:n5:87:SER:HA	2.19	0.42
63:n7:136:PHE:HB2	70:o4:88:ARG:HG3	2.01	0.42
68:o2:19:ARG:HH11	68:o2:19:ARG:HD3	1.70	0.42
70:o4:36:LYS:HE3	70:o4:36:LYS:HB2	1.79	0.42
1:2:2:A:O2'	4:S2:198:THR:O	2.32	0.42
1:2:190:C:O2'	1:2:191:C:OP2	2.33	0.42
1:2:832:U:H2'	1:2:833:U:H5''	2.02	0.42
1:2:867:G:C4	1:2:868:G:C8	3.07	0.42
1:2:1481:C:O2'	1:2:1482:C:O5'	2.30	0.42
2:S0:69:ASN:HB3	2:S0:71:GLU:OE1	2.19	0.42
3:S1:70:LEU:HD21	3:S1:79:HIS:CG	2.53	0.42
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	2.00	0.42
4:S2:238:SER:C	4:S2:240:LEU:N	2.76	0.42
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	1.84	0.42
7:S5:120:ILE:HG12	27:D5:59:TYR:CE1	2.55	0.42
8:S6:58:LYS:C	8:S6:60:GLY:H	2.27	0.42
8:S6:131:LYS:O	60:N4:82:ILE:HA	2.19	0.42
12:C0:1:MET:CG	12:C0:2:LEU:H	2.32	0.42
15:C3:28:LEU:HB3	15:C3:29:SER:H	1.67	0.42
17:C5:60:LEU:HD21	17:C5:92:SER:CB	2.49	0.42
20:C8:41:ARG:HD2	21:C9:46:PRO:HD3	2.01	0.42
24:D2:83:ILE:CG2	24:D2:84:GLY:N	2.82	0.42
33:E1:135:HIS:HB2	33:E1:136:LYS:H	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:20:A:C6	36:1:21:G:C6	3.08	0.42
36:1:413:U:O2'	36:1:414:U:H5'	2.18	0.42
36:1:548:G:H2'	36:1:549:U:O4'	2.19	0.42
36:1:821:U:H2'	36:1:822:G:C8	2.53	0.42
36:1:1065:A:C2	65:N9:28:LYS:N	2.88	0.42
36:1:1305:U:C2	40:L3:257:PRO:HG3	2.54	0.42
36:1:1419:A:H5'	38:4:20:U:O3'	2.19	0.42
36:1:1548:C:OP2	36:1:1549:U:C2	2.73	0.42
36:1:1668:G:H2'	36:1:1669:C:H6	1.83	0.42
36:1:1859:A:C2	36:1:1860:G:C5	3.08	0.42
36:1:1869:C:H4'	36:1:3077:A:O2'	2.19	0.42
36:1:2118:C:H2'	36:1:2119:A:O4'	2.18	0.42
36:1:2199:G:C4	36:1:2200:U:C5	3.08	0.42
36:1:2249:G:C8	36:1:2272:G:C4	3.07	0.42
36:1:2355:G:H4'	53:M7:139:TYR:CZ	2.54	0.42
36:1:2533:G:N7	87:1:3747:OHX:N1	2.67	0.42
36:1:2631:U:C2	36:1:2632:G:C8	3.07	0.42
36:1:2918:G:C2	36:1:2919:A:N7	2.87	0.42
36:1:3033:A:H2'	36:1:3034:C:C6	2.53	0.42
36:1:3113:A:H2'	36:1:3114:A:O4'	2.19	0.42
36:1:3173:G:N3	69:O3:96:ALA:HB2	2.35	0.42
36:1:3348:G:C6	36:1:3349:C:N4	2.87	0.42
87:1:3783:OHX:N4	38:4:140:G:OP1	2.52	0.42
39:L2:200:ARG:C	39:L2:202:VAL:N	2.78	0.42
40:L3:68:HIS:HE2	40:L3:69:LYS:HZ2	1.67	0.42
42:L5:151:GLN:NE2	42:L5:159:VAL:HB	2.34	0.42
44:L7:224:ILE:HG23	56:N0:36:ILE:HG12	2.01	0.42
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	2.01	0.42
48:M1:82:ARG:HD2	48:M1:112:LEU:O	2.18	0.42
49:M3:54:LEU:HD23	49:M3:54:LEU:HA	1.79	0.42
49:M3:135:ALA:O	49:M3:136:GLU:HG3	2.20	0.42
53:M7:60:PHE:CZ	53:M7:84:PRO:HG3	2.54	0.42
54:M8:34:THR:HG22	54:M8:49:LEU:HD11	2.01	0.42
55:M9:99:LEU:O	55:M9:99:LEU:HD13	2.19	0.42
62:N6:71:SER:OG	62:N6:72:SER:N	2.53	0.42
64:N8:45:MET:HE3	64:N8:45:MET:HB3	1.93	0.42
65:N9:56:ALA:O	65:N9:59:LYS:HD2	2.18	0.42
69:O3:89:LEU:HD23	69:O3:89:LEU:HA	1.84	0.42
70:O4:41:ARG:HH22	70:O4:52:GLN:HA	1.84	0.42
71:O5:13:SER:O	71:O5:16:GLN:N	2.52	0.42
74:O8:14:LEU:C	74:O8:16:ARG:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:40:A:H2'	80:6:41:A:O4'	2.18	0.42
80:6:213:A:C4	80:6:253:A:C2	3.08	0.42
80:6:224:C:H2'	80:6:225:A:C8	2.55	0.42
80:6:272:U:H6	80:6:272:U:H2'	1.65	0.42
80:6:569:C:H2'	80:6:570:A:O4'	2.19	0.42
80:6:718:U:H5'	80:6:719:U:H5	1.83	0.42
80:6:758:U:OP1	11:s9:7:THR:HG21	2.20	0.42
80:6:783:G:N2	80:6:784:C:C2	2.87	0.42
80:6:800:U:P	87:6:2051:OHX:N4	2.93	0.42
80:6:955:A:H2'	80:6:956:C:O4'	2.19	0.42
80:6:970:A:H3'	80:6:970:A:C8	2.53	0.42
80:6:1437:U:H5''	5:s3:176:LEU:HD23	2.00	0.42
80:6:1500:C:H2'	80:6:1501:C:C6	2.54	0.42
2:s0:56:LYS:NZ	2:s0:158:VAL:HA	2.33	0.42
2:s0:190:ASP:C	2:s0:192:THR:N	2.77	0.42
3:s1:157:GLN:OE1	87:s1:301:OHX:N4	2.52	0.42
4:s2:214:ALA:O	4:s2:218:ILE:HG13	2.20	0.42
4:s2:232:GLU:HG3	4:s2:233:GLN:N	2.34	0.42
5:s3:175:VAL:O	5:s3:181:VAL:HG22	2.20	0.42
6:s4:19:LEU:HD11	6:s4:108:ARG:CD	2.49	0.42
6:s4:31:PRO:HB2	6:s4:38:LEU:HB2	2.01	0.42
8:s6:3:LEU:HA	8:s6:109:LEU:O	2.19	0.42
8:s6:32:ILE:HA	8:s6:52:ILE:HG22	2.00	0.42
81:c0:15:LEU:HD22	81:c0:15:LEU:O	2.19	0.42
15:c3:53:LEU:HD12	15:c3:53:LEU:HA	1.77	0.42
21:c9:33:TYR:CD1	21:c9:37:VAL:HG21	2.54	0.42
26:d4:2:SER:HA	26:d4:32:ARG:HD3	2.00	0.42
26:d4:8:ARG:NH1	26:d4:28:LEU:HD11	2.33	0.42
34:sR:197:SER:HG	34:sR:217:ASP:H	1.62	0.42
36:5:158:G:N2	36:5:264:G:H1'	2.34	0.42
36:5:344:A:C5	36:5:345:G:N7	2.88	0.42
36:5:346:C:C4	36:5:348:A:C8	3.07	0.42
36:5:1831:U:P	61:n5:92:LYS:HG3	2.59	0.42
36:5:1937:U:C4	36:5:1938:U:O4	2.72	0.42
36:5:2244:A:C8	39:l2:243:THR:HG21	2.54	0.42
36:5:3198:U:H6	36:5:3198:U:O5'	2.03	0.42
40:l3:115:LYS:O	40:l3:118:PHE:HD1	2.02	0.42
40:l3:296:THR:HG21	40:l3:357:LYS:CA	2.49	0.42
41:l4:126:ILE:HD11	41:l4:233:LEU:HD13	2.01	0.42
42:l5:183:TRP:HZ3	42:l5:185:PHE:HA	1.81	0.42
42:l5:278:SER:OG	42:l5:281:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:39:LYS:C	46:l9:41:ILE:H	2.27	0.42
46:l9:81:GLY:O	46:l9:85:GLY:HA2	2.18	0.42
46:l9:85:GLY:O	46:l9:186:PHE:HA	2.19	0.42
47:m0:46:PHE:HD2	47:m0:139:ARG:HG3	1.83	0.42
47:m0:161:GLY:O	47:m0:163:GLN:NE2	2.52	0.42
48:m1:110:ILE:HG22	48:m1:115:LYS:O	2.20	0.42
51:m5:67:ARG:HG2	51:m5:127:TYR:CE1	2.52	0.42
57:n1:39:ILE:HD12	57:n1:102:ARG:HE	1.85	0.42
58:n2:32:SER:HG	58:n2:83:TYR:HE1	1.62	0.42
59:n3:13:ILE:HG13	59:n3:14:SER:N	2.33	0.42
60:n4:100:VAL:O	60:n4:103:ALA:HB3	2.18	0.42
62:n6:28:ARG:NH2	62:n6:49:PRO:HG2	2.34	0.42
63:n7:102:GLU:H	63:n7:107:ARG:NH2	2.15	0.42
64:n8:86:LYS:HA	64:n8:89:GLN:OE1	2.19	0.42
65:n9:22:LYS:HE2	65:n9:22:LYS:HB2	1.46	0.42
69:o3:6:ARG:HD2	69:o3:8:TYR:O	2.19	0.42
69:o3:48:ARG:HG2	69:o3:104:PRO:HD3	2.00	0.42
70:o4:21:LYS:HB3	70:o4:35:VAL:CG2	2.49	0.42
71:o5:78:LYS:CA	71:o5:81:ARG:HD3	2.38	0.42
74:o8:27:ILE:HD12	74:o8:39:ARG:CZ	2.49	0.42
1:2:53:G:H2'	1:2:54:C:C6	2.54	0.42
1:2:140:A:C2	8:S6:184:LEU:HD13	2.55	0.42
1:2:142:G:N3	1:2:142:G:H2'	2.33	0.42
1:2:249:U:H5	13:C1:34:TRP:CE2	2.37	0.42
1:2:344:A:C6	1:2:345:U:C4	3.07	0.42
1:2:410:A:N6	1:2:411:C:C4	2.88	0.42
1:2:952:A:C2	1:2:953:G:C8	3.07	0.42
1:2:1053:G:O6	87:2:2064:OHX:N5	2.52	0.42
1:2:1150:G:C6	1:2:1768:G:C5	3.06	0.42
1:2:1446:A:H2'	87:2:2088:OHX:N1	2.34	0.42
4:S2:99:LYS:HA	4:S2:117:THR:HB	2.01	0.42
4:S2:106:ASP:O	4:S2:107:SER:OG	2.30	0.42
6:S4:68:ARG:HD3	6:S4:76:VAL:HG11	2.00	0.42
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.52	0.42
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.20	0.42
9:S7:154:LEU:HD21	9:S7:183:PHE:HD1	1.85	0.42
15:C3:13:SER:OG	15:C3:14:SER:O	2.37	0.42
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	2.00	0.42
18:C6:60:PHE:HA	18:C6:63:ILE:HD11	2.01	0.42
20:C8:115:ARG:HG2	20:C8:119:ILE:HD13	2.02	0.42
24:D2:28:ARG:HA	24:D2:29:PRO:HA	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.54	0.42
25:D3:130:VAL:HG11	25:D3:143:PRO:HD3	2.01	0.42
30:D8:19:THR:OG1	30:D8:27:GLN:HG3	2.19	0.42
34:SR:294:TRP:CZ3	34:SR:301:LEU:HB2	2.54	0.42
36:1:64:G:O2'	36:1:77:A:H1'	2.19	0.42
36:1:226:C:H4'	62:N6:29:VAL:O	2.20	0.42
36:1:256:G:H2'	36:1:257:U:H6	1.85	0.42
36:1:595:G:H2'	36:1:596:C:C6	2.53	0.42
36:1:1103:A:N3	36:1:1103:A:H2'	2.35	0.42
36:1:1282:G:C6	36:1:1283:C:C4	3.08	0.42
36:1:1479:U:H2'	36:1:1480:G:H5'	2.01	0.42
36:1:1831:U:H5'	61:N5:91:ASN:HB3	2.01	0.42
36:1:1932:A:H5'	36:1:1933:A:OP2	2.19	0.42
36:1:2828:G:C2	36:1:2829:U:H1'	2.55	0.42
36:1:3207:U:P	50:M4:106:ARG:HH22	2.42	0.42
38:4:9:A:C6	38:4:10:A:N6	2.87	0.42
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.27	0.42
40:L3:283:TYR:HB3	40:L3:323:MET:CE	2.50	0.42
41:L4:198:ARG:HH22	62:N6:12:ARG:CZ	2.31	0.42
41:L4:264:SER:C	41:L4:266:THR:N	2.77	0.42
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.52	0.42
43:L6:76:LEU:HD12	43:L6:138:GLN:HA	2.00	0.42
43:L6:138:GLN:HE21	43:L6:142:ASP:CG	2.27	0.42
48:M1:12:LEU:HD12	48:M1:131:MET:CE	2.49	0.42
48:M1:116:TYR:CD2	48:M1:122:ILE:HD11	2.54	0.42
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	2.01	0.42
52:M6:51:LYS:HE2	52:M6:144:SER:CB	2.48	0.42
52:M6:176:LYS:O	52:M6:180:SER:HB3	2.19	0.42
53:M7:20:SER:HB3	53:M7:145:HIS:CE1	2.54	0.42
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.19	0.42
67:O1:68:GLU:HG3	67:O1:69:TYR:H	1.84	0.42
68:O2:64:LYS:HD3	68:O2:65:PHE:CE2	2.54	0.42
71:O5:21:LEU:CD2	71:O5:51:ILE:HG23	2.46	0.42
78:Q2:58:PHE:HE2	78:Q2:61:LYS:HA	1.83	0.42
79:Q3:49:ARG:HD3	79:Q3:50:GLY:N	2.35	0.42
80:6:138:A:H62	80:6:266:A:N6	2.17	0.42
80:6:217:A:N6	80:6:845:G:O4'	2.52	0.42
80:6:249:U:H3'	80:6:250:C:C5'	2.50	0.42
80:6:649:U:H3	80:6:685:A:H61	1.67	0.42
80:6:681:U:H4'	80:6:682:C:OP1	2.18	0.42
80:6:805:U:O4	80:6:806:A:N6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1163:A:N6	80:6:1164:G:C6	2.88	0.42
80:6:1275:A:O2'	5:s3:141:LYS:HD3	2.19	0.42
80:6:1391:A:C4	80:6:1392:U:C5	3.07	0.42
80:6:1756[A]:A:OP2	87:6:1901:OHX:N4	2.52	0.42
2:s0:102:PHE:CZ	2:s0:106:SER:HB2	2.54	0.42
2:s0:124:THR:HG22	2:s0:174:TRP:NE1	2.31	0.42
2:s0:173:ILE:O	2:s0:177:LEU:HB2	2.19	0.42
3:s1:82:ARG:NH1	3:s1:191:GLU:HG2	2.34	0.42
6:s4:19:LEU:HD11	6:s4:108:ARG:HD3	1.99	0.42
6:s4:114:ILE:HD12	6:s4:118:GLU:HB3	2.02	0.42
9:s7:28:GLU:O	9:s7:35:LYS:HB2	2.19	0.42
9:s7:31:SER:HA	9:s7:35:LYS:HE3	2.01	0.42
10:s8:169:ILE:HD12	10:s8:179:CYS:SG	2.60	0.42
17:c5:33:PHE:CE1	17:c5:112:LEU:HD13	2.54	0.42
20:c8:11:PHE:CE1	20:c8:59:GLY:HA3	2.54	0.42
21:c9:33:TYR:C	21:c9:35:ASP:N	2.73	0.42
24:d2:96:ALA:HB3	24:d2:99:PHE:CE1	2.54	0.42
30:d8:25:VAL:HG13	30:d8:44:VAL:O	2.20	0.42
36:5:188:U:H1'	36:5:208:C:H1'	2.00	0.42
36:5:796:U:H2'	36:5:797:U:H6	1.84	0.42
36:5:934:G:H5''	36:5:935:U:OP2	2.19	0.42
36:5:944:C:H4'	68:o2:33:ARG:HD3	2.00	0.42
36:5:1025:A:H5'	36:5:1026:A:OP2	2.19	0.42
36:5:1284:C:O2'	36:5:1285:G:OP1	2.34	0.42
36:5:1307:G:OP2	52:m6:59:ARG:NH1	2.53	0.42
36:5:1449:A:H2'	36:5:1450:G:O4'	2.20	0.42
36:5:1944:U:C2	36:5:1945:A:C8	3.07	0.42
36:5:2226:U:H2'	36:5:2227:C:C6	2.54	0.42
36:5:2833:A:C2	36:5:2834:G:C8	3.07	0.42
36:5:3136:G:C6	36:5:3137:C:C4	3.07	0.42
38:8:101:U:H2'	38:8:102:U:O4'	2.20	0.42
40:l3:49:TYR:O	40:l3:80:ASP:N	2.46	0.42
40:l3:57:VAL:HG22	40:l3:73:VAL:HB	2.01	0.42
42:l5:227:LEU:HD12	42:l5:227:LEU:HA	1.74	0.42
47:m0:117:GLY:O	87:m0:302:OHX:N6	2.52	0.42
49:m3:128:ARG:NH1	71:o5:109:ILE:O	2.51	0.42
53:m7:73:GLY:HA3	53:m7:78:VAL:HG12	2.01	0.42
67:o1:11:GLU:OE2	67:o1:74:ARG:NH2	2.52	0.42
84:p0:97:LYS:HG3	84:p0:98:ASN:N	2.35	0.42
1:2:189:C:N4	1:2:197:A:C2	2.88	0.42
1:2:357:G:OP2	87:2:1938:OHX:N6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:461:G:H5'	6:S4:27:TYR:OH	2.19	0.42
1:2:781:U:O2'	1:2:782:U:C6	2.70	0.42
1:2:822:U:H2'	1:2:823:G:H5''	2.02	0.42
1:2:877:G:H5'	1:2:937:C:H1'	2.00	0.42
1:2:1530:C:P	27:D5:95:HIS:HB2	2.60	0.42
3:S1:144:ARG:NH2	3:S1:207:LEU:O	2.50	0.42
5:S3:141:LYS:HE3	5:S3:180:GLY:HA3	2.00	0.42
7:S5:112:ARG:HD3	27:D5:95:HIS:NE2	2.35	0.42
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.19	0.42
11:S9:112:GLN:O	11:S9:115:LYS:N	2.49	0.42
15:C3:67:THR:O	15:C3:69:ASN:N	2.52	0.42
17:C5:127:ARG:HB3	17:C5:130:ARG:HG3	2.01	0.42
22:D0:54:GLY:O	22:D0:55:PRO:C	2.62	0.42
24:D2:114:GLU:O	24:D2:118:ARG:HG3	2.20	0.42
28:D6:44:ILE:H	28:D6:44:ILE:HD12	1.85	0.42
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.18	0.42
36:1:624:G:OP2	87:1:3683:OHX:N6	2.52	0.42
36:1:728:G:H5''	54:M8:43:PRO:HB3	2.01	0.42
36:1:1171:G:N7	87:1:3496:OHX:N5	2.67	0.42
36:1:1236:G:C2	36:1:1245:A:C8	3.07	0.42
36:1:1493:G:H2'	36:1:1493:G:N3	2.35	0.42
36:1:1782:U:H2'	36:1:1783:U:O4'	2.19	0.42
36:1:1838:G:H5''	36:1:1839:A:O4'	2.20	0.42
36:1:2379:U:H2'	36:1:2380:U:C6	2.55	0.42
36:1:2631:U:C4	36:1:2648:G:C2	3.07	0.42
36:1:2656:A:C5	36:1:2658:G:C8	3.07	0.42
36:1:2659:G:H2'	36:1:2660:G:C8	2.54	0.42
36:1:2910:A:O2'	36:1:3130:A:N1	2.43	0.42
36:1:2912:G:C6	36:1:3130:A:C5	3.07	0.42
36:1:3139:A:H8	36:1:3139:A:C5'	2.31	0.42
36:1:3197:G:H2'	36:1:3198:U:H3'	2.01	0.42
38:4:42:G:OP1	73:O7:60:GLY:N	2.49	0.42
39:L2:42:ARG:HE	39:L2:42:ARG:HB3	1.63	0.42
40:L3:49:TYR:OH	40:L3:166:ILE:HD12	2.18	0.42
40:L3:351:LEU:HA	40:L3:351:LEU:HD23	1.62	0.42
41:L4:23:PRO:HB3	41:L4:258:LEU:HB3	2.01	0.42
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.54	0.42
43:L6:146:ILE:O	43:L6:147:ALA:C	2.62	0.42
44:L7:127:LEU:HA	44:L7:127:LEU:HD23	1.70	0.42
45:L8:24:ASN:N	45:L8:25:PRO:HD2	2.35	0.42
45:L8:204:ARG:O	45:L8:207:ASP:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:41:SER:C	48:M1:43:GLN:H	2.27	0.42
49:M3:54:LEU:HD13	49:M3:75:PHE:CZ	2.53	0.42
51:M5:97:SER:OG	51:M5:98:LEU:N	2.53	0.42
55:M9:119:LEU:O	55:M9:123:LEU:HG	2.20	0.42
55:M9:160:GLU:HA	55:M9:163:ARG:HB2	2.02	0.42
59:N3:135:VAL:HG21	60:N4:26:SER:HB3	2.00	0.42
61:N5:135:ILE:HD13	61:N5:135:ILE:O	2.20	0.42
67:O1:27:LYS:O	67:O1:30:PRO:HD2	2.19	0.42
71:O5:78:LYS:HA	71:O5:81:ARG:CD	2.49	0.42
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.18	0.42
74:O8:15:THR:HG22	74:O8:45:VAL:HG13	2.01	0.42
74:O8:17:ARG:O	74:O8:19:ASP:N	2.53	0.42
80:6:209:U:H2'	80:6:210:A:H8	1.85	0.42
80:6:839:U:H5''	13:c1:28:SER:OG	2.20	0.42
80:6:1496:U:H4'	80:6:1519:U:O2'	2.20	0.42
80:6:1758:U:H2'	80:6:1759:C:H6	1.84	0.42
2:s0:163:ASN:HB3	2:s0:169:SER:CB	2.50	0.42
3:s1:145:LYS:HA	3:s1:149:GLN:OE1	2.20	0.42
4:s2:186:LYS:HD2	4:s2:189:GLN:OE1	2.19	0.42
6:s4:50:ASN:O	6:s4:51:ARG:CZ	2.68	0.42
6:s4:93:ASP:O	6:s4:96:ASN:N	2.35	0.42
9:s7:97:ARG:HA	9:s7:97:ARG:HD3	1.87	0.42
11:s9:53:ARG:O	11:s9:57:ARG:HB2	2.18	0.42
15:c3:75:LEU:O	15:c3:80:LEU:N	2.42	0.42
16:c4:102:LEU:HD13	28:d6:53:LEU:HD21	2.02	0.42
24:d2:96:ALA:C	24:d2:98:GLN:H	2.27	0.42
25:d3:23:ARG:HD2	25:d3:26:GLU:OE1	2.19	0.42
25:d3:133:LEU:HD22	25:d3:133:LEU:HA	1.52	0.42
27:d5:54:VAL:HG13	27:d5:60:VAL:HG11	2.01	0.42
27:d5:57:TYR:HD1	27:d5:60:VAL:HG13	1.84	0.42
27:d5:103:ARG:HG2	27:d5:104:ALA:N	2.34	0.42
29:d7:59:CYS:O	29:d7:60:SER:C	2.61	0.42
34:sR:255:ALA:HA	34:sR:260:ILE:HA	2.00	0.42
34:sR:260:ILE:HG21	34:sR:292:LEU:HD21	2.00	0.42
36:5:29:C:OP1	51:m5:189:LYS:HB2	2.18	0.42
36:5:188:U:O2	36:5:222:A:H2	2.02	0.42
36:5:282:G:H2'	36:5:286:U:O4'	2.19	0.42
36:5:333:G:C6	36:5:334:A:N7	2.88	0.42
36:5:374:A:N3	36:5:376:G:H5''	2.34	0.42
36:5:725:G:C3'	36:5:726:G:H5''	2.45	0.42
36:5:759:U:O2	36:5:773:G:C2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1109:U:H2'	36:5:1110:U:O4'	2.20	0.42
36:5:1161:G:H2'	68:o2:56:GLY:HA3	2.02	0.42
36:5:1201:C:C2	87:5:3534:OHX:N2	2.87	0.42
36:5:1303:A:O4'	36:5:2885:C:O2'	2.37	0.42
36:5:1939:G:C6	36:5:2110:G:O6	2.73	0.42
36:5:2724:U:C4	36:5:2725:U:O4	2.72	0.42
36:5:2943:G:N7	36:5:2944:U:C5	2.87	0.42
36:5:3018:C:H2'	36:5:3019:U:O4'	2.20	0.42
36:5:3369:G:N2	40:l3:380:MET:O	2.43	0.42
37:7:64:A:H5'	37:7:65:G:H5''	2.01	0.42
40:l3:113:GLU:CD	40:l3:167:ARG:HD3	2.44	0.42
40:l3:293:ASN:OD1	40:l3:293:ASN:N	2.41	0.42
40:l3:339:ARG:NH1	40:l3:342:LEU:HD21	2.35	0.42
41:l4:244:LEU:HA	41:l4:244:LEU:HD23	1.87	0.42
42:l5:38:THR:O	42:l5:48:LYS:HE3	2.19	0.42
42:l5:271:LYS:HA	42:l5:271:LYS:HD3	1.94	0.42
44:l7:185:ILE:O	44:l7:189:ILE:HG22	2.19	0.42
44:l7:195:PHE:O	44:l7:196:LYS:C	2.62	0.42
46:l9:122:LYS:HG2	46:l9:123:ILE:H	1.85	0.42
47:m0:77:THR:HG22	47:m0:82:ARG:HA	2.01	0.42
47:m0:182:LEU:HA	47:m0:182:LEU:HD23	1.44	0.42
53:m7:116:HIS:O	53:m7:149:VAL:N	2.53	0.42
53:m7:126:ARG:HD3	53:m7:140:GLU:OE2	2.19	0.42
57:n1:97:LYS:HG2	57:n1:98:HIS:N	2.33	0.42
57:n1:120:LYS:O	57:n1:123:GLY:N	2.51	0.42
66:o0:10:ILE:HD12	66:o0:10:ILE:HA	1.93	0.42
1:2:166:C:O2'	8:S6:133:LEU:O	2.32	0.42
1:2:1160:A:H2'	1:2:1161:C:H6	1.82	0.42
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.55	0.42
2:S0:193:GLN:C	2:S0:195:TRP:N	2.75	0.42
8:S6:148:SER:HB3	60:N4:98:PRO:HG3	2.00	0.42
11:S9:32:GLY:HA3	32:E0:40:TYR:CD1	2.55	0.42
12:C0:61:TRP:O	12:C0:62:GLN:HB2	2.19	0.42
16:C4:14:PHE:HD2	16:C4:14:PHE:HA	1.76	0.42
19:C7:18:GLU:HG3	19:C7:69:ILE:HG22	2.02	0.42
20:C8:82:PRO:O	20:C8:83:ALA:HB3	2.19	0.42
21:C9:34:VAL:HG23	21:C9:53:TRP:CZ2	2.54	0.42
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	2.01	0.42
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.55	0.42
36:1:341:G:N7	41:L4:195:ARG:NH2	2.60	0.42
36:1:346:C:C4	36:1:348:A:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:497:C:H2'	36:1:498:A:O4'	2.19	0.42
36:1:527:A:N6	36:1:528:U:C4	2.87	0.42
36:1:1114:U:H5''	64:N8:22:ILE:HD12	2.01	0.42
36:1:1317:A:C2	36:1:1319:G:C6	3.08	0.42
36:1:1430:U:H2'	64:N8:9:ARG:NH2	2.34	0.42
36:1:1610:G:H2'	36:1:1611:G:O4'	2.19	0.42
36:1:1613:A:OP1	74:O8:2:ALA:N	2.52	0.42
36:1:1629:U:O4	63:N7:111:LYS:HD2	2.19	0.42
36:1:1682:U:H4'	36:1:1684:U:O4	2.20	0.42
36:1:1722:U:C2'	36:1:1723:A:H5'	2.49	0.42
36:1:1852:G:H2'	36:1:1853:U:C6	2.55	0.42
36:1:2526:C:O5'	36:1:2526:C:H6	2.02	0.42
36:1:2554:A:H5''	39:L2:85:GLY:O	2.20	0.42
36:1:2563:G:H5'	45:L8:28:HIS:O	2.19	0.42
36:1:2991:A:N3	53:M7:69:ARG:NH2	2.68	0.42
36:1:3141:A:H4'	36:1:3142:A:OP2	2.19	0.42
36:1:3251:U:H2'	36:1:3252:G:O4'	2.20	0.42
36:1:3378:C:O2'	40:L3:312:VAL:HA	2.19	0.42
37:3:30:G:C2	37:3:31:U:C6	3.08	0.42
38:4:118:C:C2	38:4:136:G:N2	2.88	0.42
41:L4:191:LYS:O	41:L4:192:GLY:C	2.62	0.42
44:L7:77:VAL:HG12	56:N0:59:VAL:O	2.20	0.42
44:L7:202:LEU:HA	44:L7:202:LEU:HD23	1.76	0.42
47:M0:38:LYS:HD2	47:M0:83:ASP:HB3	2.02	0.42
47:M0:51:HIS:ND1	47:M0:137:SER:OG	2.45	0.42
47:M0:220:GLN:C	87:M0:304:OHX:N4	2.77	0.42
48:M1:80:LEU:O	48:M1:84:LEU:HB2	2.19	0.42
50:M4:65:LEU:HD12	56:N0:172:TYR:CE2	2.55	0.42
54:M8:116:LYS:O	54:M8:116:LYS:HG3	2.19	0.42
54:M8:125:ASP:O	54:M8:129:VAL:HG23	2.19	0.42
55:M9:5:ARG:O	55:M9:8:LYS:N	2.53	0.42
55:M9:68:GLN:O	55:M9:71:ARG:N	2.53	0.42
55:M9:105:LEU:HD23	55:M9:105:LEU:C	2.44	0.42
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	2.01	0.42
66:O0:16:LEU:HD22	66:O0:19:LYS:HE3	2.02	0.42
74:O8:70:PRO:HA	74:O8:71:PRO:HD3	1.95	0.42
78:Q2:10:THR:O	78:Q2:23:HIS:HE1	2.02	0.42
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.20	0.42
80:6:332:U:OP1	10:s8:31:ARG:NE	2.52	0.42
80:6:447:U:OP1	6:s4:49:ARG:NH1	2.49	0.42
80:6:765:G:C5	11:s9:149:ARG:CZ	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:989:U:H2'	80:6:990:C:C6	2.55	0.42
80:6:1070:C:H4'	29:d7:17:ARG:CD	2.49	0.42
80:6:1126:G:OP1	77:q1:15:ARG:NH1	2.51	0.42
80:6:1267:G:H2'	80:6:1268:G:C8	2.55	0.42
80:6:1331:A:N3	5:s3:204:ASP:HB2	2.35	0.42
80:6:1394:G:O2'	80:6:1395:G:H5'	2.19	0.42
80:6:1398:U:O2'	19:c7:67:ARG:NH2	2.47	0.42
80:6:1410:A:C6	80:6:1411:A:C2	3.07	0.42
80:6:1568:C:H6	80:6:1568:C:H2'	1.45	0.42
80:6:1568:C:OP1	20:c8:36:LYS:NZ	2.52	0.42
80:6:1788:G:OP2	16:c4:132:ARG:NH1	2.53	0.42
2:s0:9:LEU:HD13	2:s0:10:THR:C	2.45	0.42
3:s1:82:ARG:HH12	3:s1:191:GLU:CG	2.33	0.42
3:s1:228:LEU:HD22	3:s1:228:LEU:HA	1.93	0.42
6:s4:127:LYS:HE2	6:s4:127:LYS:HA	2.01	0.42
7:s5:171:ALA:O	7:s5:172:ILE:C	2.62	0.42
8:s6:4:ASN:HB3	8:s6:110:ALA:CB	2.48	0.42
11:s9:168:ARG:NH1	11:s9:171:ARG:HH21	2.17	0.42
13:c1:16:GLN:H	13:c1:16:GLN:HG3	1.55	0.42
18:c6:125:GLU:HG3	18:c6:126:PRO:HD2	2.01	0.42
19:c7:104:ASN:C	19:c7:106:THR:N	2.78	0.42
20:c8:91:ASP:O	20:c8:92:ILE:HB	2.19	0.42
23:d1:62:ARG:HH22	24:d2:20:THR:HB	1.84	0.42
34:sR:67:ILE:HD12	34:sR:85:TRP:CE2	2.55	0.42
36:5:90:C:H2'	36:5:91:G:H5'	2.01	0.42
36:5:157:A:C8	72:o6:26:ILE:HG12	2.54	0.42
36:5:815:G:N1	36:5:906:A:C2	2.88	0.42
36:5:929:A:O2'	73:o7:49:TRP:O	2.37	0.42
36:5:1037:C:H2'	36:5:1038:C:H6	1.84	0.42
36:5:1085:A:OP1	57:n1:35:LYS:HB3	2.19	0.42
36:5:1116:G:C4	36:5:2817:A:C2	3.08	0.42
36:5:1522:U:H4'	36:5:1604:G:O2'	2.20	0.42
36:5:2126:A:H5''	36:5:2126:A:H8	1.84	0.42
36:5:2352:A:OP1	53:m7:82:ARG:HB3	2.20	0.42
36:5:2631:U:P	57:n1:6:GLY:HA3	2.60	0.42
36:5:2799:A:H5''	36:5:2800:G:O5'	2.19	0.42
36:5:2921:U:C2	36:5:2923:U:H5''	2.54	0.42
36:5:3149:G:H4'	40:l3:130:PHE:CZ	2.54	0.42
36:5:3193:C:H2'	36:5:3194:C:O4'	2.19	0.42
36:5:3305:A:H2'	36:5:3306:U:C6	2.54	0.42
87:5:3493:OHX:N4	38:8:112:U:O2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:107:VAL:CG1	39:l2:111:THR:HG21	2.48	0.42
39:l2:201:GLY:O	39:l2:204:MET:HB2	2.20	0.42
41:l4:320:ASN:ND2	41:l4:323:VAL:HG23	2.35	0.42
42:l5:296:GLN:HG2	47:m0:214:PRO:HB3	2.01	0.42
43:l6:40:LEU:HB3	43:l6:84:VAL:CG1	2.49	0.42
44:l7:236:ILE:HD12	44:l7:236:ILE:HA	1.83	0.42
47:m0:135:ILE:O	47:m0:136:PHE:HD1	2.01	0.42
47:m0:208:ASN:CB	47:m0:211:ARG:HH11	2.24	0.42
49:m3:64:LYS:HD3	49:m3:65:TYR:CE1	2.55	0.42
52:m6:15:LEU:HB2	52:m6:18:ARG:HG3	2.01	0.42
54:m8:165:ILE:HD11	54:m8:172:PHE:HB3	2.01	0.42
55:m9:45:VAL:HA	55:m9:50:ILE:O	2.20	0.42
56:n0:28:ARG:O	56:n0:29:ILE:HD13	2.20	0.42
70:o4:8:ARG:HH21	70:o4:31:ARG:CG	2.32	0.42
73:o7:48:ASN:HA	73:o7:54:LYS:NZ	2.34	0.42
74:o8:3:ARG:O	74:o8:52:TYR:HA	2.20	0.42
84:p0:97:LYS:HE3	84:p0:98:ASN:OD1	2.19	0.42
84:p0:205:THR:C	84:p0:207:GLU:H	2.28	0.42
1:2:26:A:C2	1:2:27:U:C4	3.07	0.42
1:2:239:C:H3'	1:2:240:U:O4'	2.19	0.42
1:2:365:G:C2	1:2:366:A:C8	3.07	0.42
1:2:400:A:H4'	1:2:401:A:H5'	2.01	0.42
1:2:514:G:O2'	1:2:515:A:H5'	2.20	0.42
1:2:592:A:O2'	1:2:596:C:OP1	2.37	0.42
1:2:614:C:H2'	1:2:615:A:C8	2.54	0.42
1:2:783:G:O2'	1:2:784:C:P	2.78	0.42
1:2:826:U:H2'	1:2:827:C:C6	2.54	0.42
1:2:902:G:H8	1:2:902:G:O5'	2.02	0.42
1:2:1190:C:H1'	18:C6:143:ARG:NH1	2.35	0.42
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.20	0.42
1:2:1590:G:H2'	1:2:1591:C:C6	2.55	0.42
1:2:1623:C:H2'	1:2:1624:C:H6	1.82	0.42
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	2.01	0.42
3:S1:33:LYS:HD3	3:S1:41:ARG:O	2.20	0.42
4:S2:46:LYS:C	4:S2:48:GLY:H	2.28	0.42
4:S2:49:LYS:HA	4:S2:49:LYS:HD3	1.80	0.42
4:S2:103:VAL:HG22	4:S2:113:LEU:HD23	2.01	0.42
6:S4:180:LEU:HD22	6:S4:192:ILE:HG22	2.02	0.42
7:S5:37:GLN:HB3	18:C6:53:LEU:CB	2.46	0.42
10:S8:9:HIS:CD2	10:S8:10:LYS:N	2.88	0.42
11:S9:29:LYS:HG3	32:E0:44:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.53	0.42
15:C3:4:MET:HG3	15:C3:5:HIS:N	2.35	0.42
20:C8:128:PHE:HE2	35:SM:61:ILE:O	2.02	0.42
25:D3:93:LEU:O	25:D3:93:LEU:HG	2.18	0.42
36:1:21:G:H3'	36:1:22:G:C8	2.55	0.42
36:1:213:A:O2'	62:N6:10:SER:HB3	2.19	0.42
36:1:437:G:O2'	36:1:438:A:H5'	2.19	0.42
36:1:823:C:H2'	36:1:824:C:H6	1.85	0.42
36:1:1215:U:H2'	36:1:1216:C:O4'	2.20	0.42
36:1:1347:U:O4'	41:L4:305:ALA:HA	2.20	0.42
36:1:1897:G:O2'	59:N3:83:LYS:HB2	2.20	0.42
36:1:2150:G:O2'	36:1:2189:U:OP1	2.19	0.42
36:1:2590:A:C5	36:1:2591:A:N7	2.88	0.42
36:1:2618:G:O4'	65:N9:3:LYS:HE2	2.19	0.42
36:1:3022:G:N2	36:1:3031:G:H2'	2.34	0.42
36:1:3185:U:C6	52:M6:126:VAL:HG21	2.54	0.42
40:L3:3:HIS:O	40:L3:4:ARG:C	2.61	0.42
40:L3:4:ARG:HD3	40:L3:7:GLU:HA	2.02	0.42
43:L6:7:PRO:HG2	43:L6:10:TYR:CE1	2.54	0.42
44:L7:108:LEU:HA	44:L7:108:LEU:HD23	1.75	0.42
44:L7:163:LEU:HD23	44:L7:163:LEU:HA	1.68	0.42
45:L8:64:ILE:HG22	45:L8:65:LEU:N	2.34	0.42
47:M0:12:GLN:HG2	47:M0:128:ARG:HE	1.85	0.42
63:N7:51:LEU:CB	63:N7:65:ARG:HH11	2.33	0.42
69:O3:89:LEU:HA	69:O3:90:PRO:HD3	1.73	0.42
71:O5:96:GLU:O	71:O5:97:ALA:HB2	2.20	0.42
76:Q0:87:SER:O	76:Q0:91:CYS:HB2	2.19	0.42
78:Q2:83:LEU:HD22	78:Q2:84:THR:H	1.85	0.42
80:6:190:C:H1'	80:6:191:C:H5'	2.02	0.42
80:6:542:A:N1	32:e0:28:LYS:HD2	2.35	0.42
80:6:722:G:N3	80:6:723:G:C8	2.88	0.42
80:6:766:U:H3'	80:6:768:C:OP2	2.20	0.42
80:6:778:G:C6	80:6:783:G:C6	3.07	0.42
80:6:895:G:N2	16:c4:38:THR:HG21	2.22	0.42
80:6:934:C:C4	80:6:1077:C:H4'	2.55	0.42
80:6:1049:U:O3'	29:d7:70:LYS:HE3	2.20	0.42
80:6:1070:C:H2'	80:6:1071:U:O4'	2.18	0.42
80:6:1543:A:H1'	80:6:1569:A:C2	2.54	0.42
80:6:1759:C:H2'	80:6:1760:G:O4'	2.20	0.42
3:s1:126:THR:HA	3:s1:135:LEU:O	2.20	0.42
4:s2:224:PHE:CE1	24:d2:70:ASN:ND2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:244:SER:OG	4:s2:245:ASP:N	2.53	0.42
6:s4:151:ASP:O	6:s4:154:ILE:HG13	2.20	0.42
9:s7:89:HIS:NE2	9:s7:164:TYR:HD1	2.18	0.42
9:s7:174:ASN:ND2	9:s7:179:LYS:O	2.52	0.42
11:s9:27:GLU:OE1	11:s9:39:LYS:NZ	2.52	0.42
13:c1:69:LYS:HB3	13:c1:71:LEU:HD21	2.01	0.42
13:c1:80:MET:HE2	13:c1:83:THR:OG1	2.20	0.42
20:c8:56:LYS:HD2	20:c8:61:LEU:HD23	2.01	0.42
21:c9:33:TYR:OH	21:c9:99:SER:OG	2.31	0.42
23:d1:70:ASN:OD1	23:d1:70:ASN:N	2.52	0.42
24:d2:73:GLY:HA3	24:d2:128:PHE:CZ	2.55	0.42
25:d3:56:LYS:HE3	25:d3:93:LEU:HG	2.01	0.42
34:sR:121:MET:HE3	34:sR:121:MET:HB2	1.78	0.42
34:sR:232:TYR:HD2	34:sR:232:TYR:H	1.66	0.42
36:5:200:C:OP1	62:n6:60:ARG:HD2	2.20	0.42
36:5:700:C:O2'	36:5:701:G:H5'	2.20	0.42
36:5:1728:G:OP1	36:5:1729:A:O2'	2.33	0.42
36:5:2681:U:OP1	48:m1:51:ARG:HG3	2.19	0.42
36:5:3045:G:O3'	40:l3:275:ARG:NH1	2.53	0.42
37:7:22:A:C4	42:l5:272:TYR:CD2	3.07	0.42
38:8:58:G:N7	73:o7:63:ARG:NH1	2.54	0.42
38:8:124:G:OP2	87:8:211:OHX:N2	2.52	0.42
39:l2:148:VAL:HG22	39:l2:156:LYS:O	2.20	0.42
40:l3:217:ALA:HB3	40:l3:328:ILE:HG12	2.01	0.42
40:l3:292:ALA:HB1	40:l3:295:ALA:HB2	2.02	0.42
41:l4:125:ALA:HB1	41:l4:238:LEU:HB3	2.02	0.42
41:l4:156:LEU:HA	41:l4:156:LEU:HD23	1.67	0.42
43:l6:47:PHE:CD1	43:l6:74:VAL:HG22	2.55	0.42
45:l8:140:VAL:O	45:l8:144:GLU:HG3	2.20	0.42
46:l9:128:VAL:HG22	46:l9:134:ILE:HD13	2.01	0.42
47:m0:5:PRO:O	47:m0:7:ARG:N	2.53	0.42
47:m0:53:VAL:O	47:m0:163:GLN:HB2	2.19	0.42
47:m0:191:LYS:HB2	47:m0:213:PHE:CE2	2.55	0.42
48:m1:141:ARG:HG2	48:m1:141:ARG:H	1.55	0.42
49:m3:53:LEU:HD22	49:m3:94:GLY:C	2.45	0.42
56:n0:31:ALA:HB1	56:n0:36:ILE:HG22	2.00	0.42
61:n5:105:VAL:CG1	61:n5:126:LEU:HD22	2.50	0.42
68:o2:19:ARG:HD3	68:o2:28:VAL:CG1	2.50	0.42
68:o2:112:ALA:O	68:o2:116:GLY:N	2.53	0.42
69:o3:41:ALA:HB3	69:o3:74:THR:HG22	2.01	0.42
78:q2:57:VAL:O	78:q2:59:HIS:CE1	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:q3:20:SER:OG	79:q3:21:SER:N	2.53	0.42
1:2:95:G:C2	1:2:96:G:H1'	2.54	0.42
1:2:212:U:C2	1:2:254:A:C2	3.07	0.42
1:2:545:A:H5''	32:E0:31:LYS:HE3	2.00	0.42
1:2:602:U:H2'	1:2:603:U:C6	2.55	0.42
1:2:976:G:O6	87:2:1928:OHX:N3	2.53	0.42
1:2:1294:G:H1	1:2:1303:U:H3	1.66	0.42
1:2:1429:G:H21	22:D0:72:ASN:HD21	1.67	0.42
1:2:1576:A:C5	1:2:1577:A:H1'	2.55	0.42
1:2:1622:G:O2'	1:2:1623:C:H5'	2.20	0.42
2:S0:109:ASN:C	2:S0:111:ILE:H	2.27	0.42
3:S1:69:CYS:SG	16:C4:114:ARG:HD3	2.60	0.42
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.19	0.42
4:S2:84:LYS:HA	4:S2:85:PRO:HD3	1.90	0.42
4:S2:99:LYS:HA	4:S2:117:THR:HA	2.01	0.42
4:S2:140:ARG:HH21	4:S2:229:LEU:HD22	1.85	0.42
4:S2:218:ILE:H	4:S2:218:ILE:HG13	1.61	0.42
5:S3:114:ALA:HB3	5:S3:117:ARG:HB3	2.02	0.42
6:S4:180:LEU:HA	6:S4:194:THR:HA	2.02	0.42
7:S5:142:PRO:HG2	7:S5:170:GLN:NE2	2.35	0.42
9:S7:154:LEU:HD21	9:S7:183:PHE:CD1	2.55	0.42
9:S7:173:TYR:CE1	9:S7:181:ILE:HD13	2.54	0.42
17:C5:31:GLU:HG3	17:C5:32:ASP:N	2.34	0.42
24:D2:110:ILE:HG23	24:D2:126:LEU:HD12	2.02	0.42
35:SM:48:ARG:H	35:SM:48:ARG:HG3	1.44	0.42
36:1:58:G:H8	36:1:58:G:O5'	2.02	0.42
36:1:713:U:O2	36:1:754:G:H4'	2.20	0.42
36:1:1114:U:OP1	64:N8:22:ILE:HB	2.20	0.42
36:1:1230:G:O6	36:1:1231:A:N6	2.53	0.42
36:1:1496:C:N3	36:1:1521:G:N2	2.67	0.42
36:1:1640:G:C5	36:1:1641:U:C4	3.08	0.42
36:1:1657:C:N4	36:1:1798:A:OP2	2.52	0.42
36:1:1764:U:H3'	36:1:1765:U:C4'	2.50	0.42
36:1:1838:G:H4'	36:1:1839:A:N3	2.35	0.42
36:1:1908:A:C6	36:1:1909:A:C6	3.08	0.42
36:1:2100:A:H5'	36:1:2101:C:OP1	2.19	0.42
36:1:2315:G:C2	36:1:2316:G:N7	2.88	0.42
36:1:2525:G:H3'	36:1:2525:G:C8	2.55	0.42
36:1:3178:A:N3	52:M6:115:LYS:HG2	2.34	0.42
38:4:46:G:P	75:O9:15:LYS:HD2	2.60	0.42
39:L2:104:LEU:HD23	39:L2:162:ALA:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:83:PRO:O	40:L3:165:GLN:HG3	2.19	0.42
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.55	0.42
40:L3:98:GLY:HA2	52:M6:149:TYR:CE1	2.55	0.42
41:L4:323:VAL:O	41:L4:327:LEU:HD22	2.19	0.42
42:L5:119:TYR:OH	42:L5:141:PRO:HD3	2.20	0.42
44:L7:235:PHE:C	44:L7:237:ASN:N	2.74	0.42
45:L8:95:ASN:C	45:L8:97:TYR:H	2.28	0.42
46:L9:17:THR:HG21	50:M4:3:THR:O	2.20	0.42
47:M0:60:LEU:CD1	47:M0:129:VAL:HG21	2.50	0.42
47:M0:170:LYS:NZ	47:M0:175:ASN:C	2.78	0.42
48:M1:165:GLN:O	48:M1:166:LYS:C	2.61	0.42
50:M4:116:GLU:O	50:M4:120:VAL:HG23	2.20	0.42
57:N1:86:GLU:CD	57:N1:88:ARG:HH11	2.28	0.42
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.19	0.42
64:N8:21:ARG:NH2	68:O2:38:ILE:HG23	2.35	0.42
67:O1:71:LEU:HD23	67:O1:71:LEU:HA	1.92	0.42
70:O4:109:THR:O	70:O4:113:LYS:HB2	2.20	0.42
80:6:138:A:H61	80:6:266:A:H61	1.66	0.42
80:6:477:A:H5'	32:e0:34:ALA:CB	2.50	0.42
80:6:834:G:H3'	80:6:835:U:C5	2.54	0.42
80:6:856:A:N6	9:s7:115:SER:O	2.51	0.42
80:6:1364:G:N2	21:c9:3:GLY:HA3	2.34	0.42
80:6:1389:C:H1'	19:c7:28:PHE:CE1	2.55	0.42
80:6:1466:G:H2'	80:6:1467:C:C6	2.55	0.42
80:6:1536:G:N2	80:6:1538:U:C4	2.88	0.42
80:6:1771:U:H2'	80:6:1772:C:C6	2.55	0.42
6:s4:58:GLY:O	6:s4:61:VAL:HB	2.20	0.42
6:s4:117:GLU:O	6:s4:118:GLU:HB3	2.19	0.42
8:s6:10:ASN:HB3	8:s6:128:THR:HA	2.01	0.42
8:s6:48:TYR:CE1	8:s6:116:LYS:HG3	2.55	0.42
9:s7:60:ILE:HD12	9:s7:92:PHE:CE2	2.55	0.42
9:s7:75:THR:O	9:s7:79:ARG:HB2	2.20	0.42
81:c0:7:ASP:O	81:c0:11:ILE:HG13	2.20	0.42
15:c3:18:TYR:CE1	24:d2:56:HIS:CE1	3.07	0.42
15:c3:79:GLY:C	15:c3:80:LEU:HD13	2.45	0.42
15:c3:98:VAL:O	15:c3:101:HIS:N	2.52	0.42
18:c6:54:LEU:HD21	18:c6:112:TYR:CE1	2.54	0.42
23:d1:55:LEU:HD23	23:d1:55:LEU:HA	1.85	0.42
28:d6:46:GLU:HG3	28:d6:47:ALA:N	2.35	0.42
31:d9:31:ILE:HD13	31:d9:31:ILE:HA	1.94	0.42
31:d9:32:ARG:HG3	31:d9:37:ASN:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:121:CYS:HB3	33:e1:130:VAL:HG11	2.02	0.42
34:sR:129:LYS:HG2	34:sR:149:ASP:O	2.20	0.42
36:5:90:C:C2'	36:5:91:G:H5'	2.50	0.42
36:5:109:A:H4'	36:5:110:G:OP1	2.20	0.42
36:5:378:A:H3'	36:5:379:C:C6	2.55	0.42
36:5:519:A:OP2	44:l7:70:LYS:NZ	2.43	0.42
36:5:535:G:C2	36:5:555:U:C2	3.08	0.42
36:5:550:A:H2'	36:5:551:A:C8	2.55	0.42
36:5:815:G:C2	36:5:906:A:C2	3.08	0.42
36:5:1345:G:N2	36:5:1360:C:C2	2.87	0.42
36:5:1481:A:O2'	36:5:1858:A:C2	2.67	0.42
36:5:1846:C:N4	53:m7:136:ILE:HG13	2.34	0.42
36:5:2523:A:O2'	36:5:2587:U:H1'	2.20	0.42
36:5:2882:U:H2'	36:5:2883:U:O4'	2.20	0.42
36:5:2907:G:H1'	76:q0:100:TYR:CE2	2.55	0.42
36:5:3154:C:H4'	36:5:3155:U:OP2	2.20	0.42
37:7:52:G:C2	37:7:53:U:C5	3.08	0.42
41:l4:58:HIS:CD2	41:l4:98:ARG:HB2	2.54	0.42
41:l4:300:ARG:O	41:l4:301:PRO:C	2.63	0.42
42:l5:60:ILE:HB	42:l5:80:SER:HB3	2.02	0.42
44:l7:223:PHE:HA	44:l7:227:GLY:HA2	2.02	0.42
45:l8:150:LEU:HD22	45:l8:151:VAL:H	1.85	0.42
48:m1:15:GLU:OE1	48:m1:16:LYS:NZ	2.49	0.42
49:m3:17:HIS:O	49:m3:20:GLU:HG3	2.19	0.42
49:m3:49:ARG:HD3	71:o5:115:LYS:HA	2.00	0.42
49:m3:174:ARG:HG3	72:o6:9:ILE:HD11	2.02	0.42
54:m8:93:ILE:HG13	54:m8:93:ILE:H	1.63	0.42
55:m9:4:LEU:HB3	55:m9:7:GLN:HG2	2.01	0.42
59:n3:11:PHE:CG	59:n3:88:ARG:HD2	2.54	0.42
59:n3:48:ARG:HG3	59:n3:48:ARG:NH1	2.29	0.42
71:o5:31:LEU:HG	71:o5:41:LEU:HD21	2.02	0.42
72:o6:81:THR:HA	72:o6:84:LYS:HZ2	1.85	0.42
1:2:196:G:O2'	1:2:197:A:P	2.78	0.42
1:2:446:A:C5	1:2:447:U:C5	3.07	0.42
1:2:553:G:C6	1:2:554:C:N3	2.88	0.42
1:2:648:G:N1	1:2:649:U:C4	2.88	0.42
1:2:993:A:H4'	1:2:1777:G:O2'	2.20	0.42
1:2:1383:G:C6	1:2:1384:A:C6	3.08	0.42
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.53	0.42
1:2:1485:C:C5	1:2:1486:G:N3	2.87	0.42
1:2:1508:U:H2'	1:2:1509:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1512:G:C6	1:2:1513:G:C6	3.08	0.42
1:2:1667:A:H4'	36:1:1935:G:O2'	2.20	0.42
1:2:1812:G:C2	1:2:1814:A:H5''	2.55	0.42
2:S0:185:ARG:CZ	23:D1:47:PRO:HG3	2.49	0.42
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.20	0.42
3:S1:111:ARG:HD3	3:S1:111:ARG:HA	1.88	0.42
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	2.01	0.42
5:S3:108:LYS:HG2	5:S3:113:LEU:HD12	2.02	0.42
7:S5:101:GLY:O	7:S5:104:ASN:HB2	2.19	0.42
9:S7:129:LEU:HA	9:S7:129:LEU:HD23	1.80	0.42
12:C0:54:TYR:HA	12:C0:72:GLY:CA	2.50	0.42
12:C0:80:LEU:O	12:C0:82:LEU:HG	2.20	0.42
14:C2:67:THR:O	14:C2:69:ALA:N	2.47	0.42
14:C2:136:ILE:O	14:C2:140:PHE:HB2	2.19	0.42
15:C3:45:LEU:HD13	15:C3:49:GLN:HB3	2.01	0.42
16:C4:64:ALA:HB3	16:C4:104:ALA:HB3	2.01	0.42
20:C8:97:ASP:OD2	87:C8:202:OHX:N4	2.53	0.42
21:C9:13:ASP:OD2	21:C9:13:ASP:N	2.53	0.42
24:D2:52:TYR:CE2	24:D2:54:ASP:HB2	2.55	0.42
25:D3:34:LEU:N	25:D3:34:LEU:HD23	2.35	0.42
33:E1:120:GLU:H	33:E1:120:GLU:HG2	1.62	0.42
36:1:681:U:O4	41:L4:118:LYS:NZ	2.41	0.42
36:1:898:U:O4	87:1:3737:OHX:N1	2.52	0.42
36:1:990:U:H1'	57:N1:101:CYS:HA	2.02	0.42
36:1:1048:A:H2'	47:M0:22:TYR:CE1	2.55	0.42
36:1:1310:G:O6	87:1:3566:OHX:N1	2.53	0.42
36:1:1312:C:H2'	36:1:1313:G:O4'	2.20	0.42
36:1:1613:A:H2'	36:1:1614:C:O4'	2.20	0.42
36:1:1940:G:H21	36:1:3362:A:H8	1.68	0.42
36:1:2553:U:O4'	66:O0:50:VAL:HB	2.20	0.42
36:1:2576:G:C5	36:1:2577:C:C5	3.08	0.42
36:1:2674:A:H2'	36:1:2675:C:C6	2.55	0.42
36:1:2817:A:H4'	36:1:2818:U:OP2	2.20	0.42
36:1:2860:U:H6	36:1:2860:U:C5'	2.31	0.42
36:1:2936:A:H2'	36:1:2937:G:C8	2.55	0.42
36:1:3061:G:N1	36:1:3083:G:C6	2.87	0.42
36:1:3365:U:H2'	36:1:3366:G:H8	1.85	0.42
45:L8:55:TYR:O	45:L8:59:GLN:HG2	2.19	0.42
53:M7:115:SER:OG	53:M7:149:VAL:HG22	2.19	0.42
56:N0:155:ARG:O	56:N0:170:THR:HA	2.20	0.42
58:N2:13:LYS:O	58:N2:66:VAL:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:55:GLU:OE1	62:N6:108:LYS:HG3	2.19	0.42
63:N7:23:VAL:HA	63:N7:45:GLY:HA2	2.02	0.42
64:N8:65:GLN:O	64:N8:66:ALA:CB	2.68	0.42
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	2.02	0.42
80:6:15:U:O4	80:6:16:G:C6	2.73	0.42
80:6:141:U:C6	8:s6:183:ARG:NH2	2.88	0.42
80:6:271:A:N6	80:6:272:U:H3	2.18	0.42
80:6:952:A:O2'	15:c3:114:ARG:HG3	2.20	0.42
80:6:1196:A:H4'	80:6:1197:C:C5'	2.50	0.42
80:6:1407:U:H2'	80:6:1408:G:O4'	2.19	0.42
2:s0:13:ASP:HA	2:s0:16:LEU:HD12	2.01	0.42
3:s1:32:ILE:HD11	3:s1:46:THR:HB	2.02	0.42
3:s1:93:GLY:C	3:s1:95:ASN:H	2.27	0.42
3:s1:103:MET:HB3	3:s1:215:VAL:CG1	2.50	0.42
3:s1:166:LYS:O	3:s1:166:LYS:HG2	2.19	0.42
6:s4:102:VAL:HG22	6:s4:103:TYR:H	1.85	0.42
7:s5:61:TYR:CE2	7:s5:164:PRO:HB2	2.55	0.42
7:s5:117:THR:HG22	7:s5:121:ILE:HD12	2.01	0.42
8:s6:75:LEU:O	8:s6:94:ARG:HA	2.19	0.42
8:s6:123:GLY:O	8:s6:127:THR:HG23	2.20	0.42
11:s9:83:VAL:HA	11:s9:149:ARG:HA	2.00	0.42
11:s9:113:VAL:O	11:s9:118:LEU:HB2	2.19	0.42
14:c2:25:GLU:C	14:c2:27:ALA:H	2.27	0.42
17:c5:127:ARG:O	17:c5:130:ARG:NH1	2.53	0.42
22:d0:20:ILE:HG13	22:d0:96:PRO:HA	2.02	0.42
24:d2:30:SER:HB2	24:d2:61:ILE:HG13	2.01	0.42
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	2.02	0.42
34:sR:85:TRP:N	34:sR:85:TRP:CD1	2.88	0.42
34:sR:256:THR:N	34:sR:259:GLY:O	2.53	0.42
36:5:678:G:O6	87:5:3517:OHX:N5	2.53	0.42
36:5:746:A:O2'	36:5:747:A:H5'	2.20	0.42
36:5:852:U:C2'	36:5:853:G:H5'	2.50	0.42
36:5:1078:U:O2	36:5:1082:U:C2	2.72	0.42
36:5:1084:A:N6	36:5:1085:A:N6	2.68	0.42
36:5:1178:G:C6	36:5:1179:A:N1	2.88	0.42
36:5:1334:U:C1'	44:l7:208:SER:HB2	2.49	0.42
36:5:1597:C:C4'	36:5:1696:A:H1'	2.50	0.42
36:5:1804:A:OP1	70:o4:70:LYS:NZ	2.50	0.42
36:5:1912:U:C4	36:5:1913:A:C6	3.08	0.42
36:5:3245:A:H2	36:5:3246:G:C2	2.37	0.42
36:5:3255:U:H2'	36:5:3256:G:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3289:G:H4'	36:5:3290:G:OP1	2.19	0.42
36:5:3390:G:C2'	36:5:3391:A:H5'	2.49	0.42
40:13:217:ALA:CB	40:13:328:ILE:HG12	2.50	0.42
40:13:325:LYS:HG2	40:13:326:GLY:N	2.33	0.42
42:15:279:LYS:HD3	42:15:279:LYS:HA	1.88	0.42
44:17:52:GLN:NE2	44:17:56:GLU:HG3	2.34	0.42
45:18:134:TYR:CD2	45:18:190:VAL:HG11	2.54	0.42
46:19:166:ARG:C	46:19:167:VAL:HG23	2.44	0.42
47:m0:201:SER:OG	47:m0:203:LYS:HB2	2.19	0.42
51:m5:48:ALA:HB1	51:m5:53:TYR:HB3	2.02	0.42
51:m5:96:ARG:NH2	51:m5:104:GLU:OE1	2.53	0.42
52:m6:58:LEU:HD12	52:m6:72:HIS:CD2	2.55	0.42
55:m9:99:LEU:HD11	55:m9:103:ARG:CZ	2.49	0.42
56:n0:44:PHE:O	56:n0:48:LEU:HG	2.20	0.42
58:n2:47:VAL:C	58:n2:49:ASN:N	2.78	0.42
61:n5:45:LYS:HG2	71:o5:75:TYR:HD2	1.84	0.42
69:o3:8:TYR:CD2	69:o3:99:ARG:HB3	2.55	0.42
70:o4:8:ARG:NH2	70:o4:31:ARG:HH11	2.17	0.42
73:o7:17:THR:O	73:o7:25:ARG:HA	2.20	0.42
1:2:61:A:C6	1:2:62:A:C6	3.08	0.42
1:2:88:U:H4'	1:2:171:A:O4'	2.19	0.42
1:2:392:G:H4'	1:2:1672:G:H21	1.84	0.42
1:2:553:G:C8	1:2:554:C:H2'	2.55	0.42
1:2:577:G:C8	1:2:577:G:C3'	3.02	0.42
1:2:589:C:H2'	1:2:590:C:H6	1.85	0.42
1:2:1253:U:P	14:C2:46:ARG:HH22	2.43	0.42
1:2:1487:A:H2	1:2:1495:C:O2'	2.02	0.42
1:2:1499:G:C5	1:2:1500:C:C4	3.08	0.42
1:2:1504:G:C6	1:2:1505:A:C6	3.07	0.42
1:2:1639:C:O2	1:2:1763:A:N1	2.52	0.42
1:2:1682:U:H4'	8:S6:65:GLN:NE2	2.35	0.42
2:S0:13:ASP:HA	2:S0:16:LEU:HB2	2.00	0.42
3:S1:28:GLU:HB3	3:S1:49:ASN:H	1.84	0.42
3:S1:48:VAL:HG11	3:S1:57:ALA:HB1	2.02	0.42
4:S2:90:THR:C	4:S2:92:ALA:H	2.28	0.42
4:S2:186:LYS:HA	4:S2:189:GLN:HB2	2.01	0.42
7:S5:56:ALA:O	7:S5:57:SER:OG	2.25	0.42
7:S5:146:THR:HG23	7:S5:221:ALA:HA	2.01	0.42
8:S6:68:LEU:HD13	8:S6:68:LEU:HA	1.64	0.42
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.20	0.42
10:S8:42:ARG:C	10:S8:43:ILE:HG13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:153:GLU:HA	11:S9:156:ILE:HD11	2.02	0.42
13:C1:141:LYS:HG3	13:C1:142:VAL:N	2.34	0.42
14:C2:63:VAL:HG21	14:C2:94:ALA:HB2	2.02	0.42
14:C2:86:VAL:O	14:C2:86:VAL:HG13	2.20	0.42
16:C4:76:ILE:HG23	16:C4:78:ALA:O	2.20	0.42
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.54	0.42
19:C7:115:LEU:HB3	19:C7:116:LYS:H	1.62	0.42
21:C9:30:VAL:O	21:C9:31:PRO:C	2.63	0.42
24:D2:11:LEU:HA	24:D2:11:LEU:HD23	1.83	0.42
30:D8:28:VAL:O	30:D8:41:VAL:HG13	2.20	0.42
34:SR:9:LEU:HB2	34:SR:313:TRP:NE1	2.34	0.42
34:SR:69:GLN:HG2	34:SR:111:MET:HA	2.01	0.42
36:1:427:C:H2'	36:1:428:A:O4'	2.20	0.42
36:1:660:A:H5'	41:L4:92:ASN:ND2	2.34	0.42
36:1:806:A:H1'	36:1:2812:C:O2'	2.20	0.42
36:1:1262:G:C6	36:1:1278:A:N6	2.88	0.42
36:1:1578:C:H3'	36:1:1579:C:C5	2.55	0.42
36:1:1650:G:H2'	36:1:1651:U:H6	1.85	0.42
36:1:2151:C:H1'	36:1:2313:A:N1	2.34	0.42
36:1:2284:C:H3'	36:1:2285:C:C6	2.55	0.42
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.55	0.42
36:1:2565:U:H2'	36:1:2566:C:C6	2.54	0.42
36:1:3026:G:O2'	36:1:3028:G:N7	2.43	0.42
36:1:3195:U:O2'	36:1:3196:U:H5'	2.19	0.42
36:1:3215:A:C4	36:1:3259:U:C2	3.07	0.42
87:1:3427:OHX:N1	87:1:3793:OHX:N1	2.68	0.42
38:4:26:U:H2'	38:4:27:U:C6	2.54	0.42
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	2.02	0.42
41:L4:257:LYS:O	41:L4:260:GLN:N	2.53	0.42
46:L9:101:VAL:HG12	46:L9:136:PHE:CE1	2.54	0.42
50:M4:24:LYS:HG2	50:M4:62:GLN:C	2.44	0.42
53:M7:112:LEU:HA	53:M7:151:THR:O	2.19	0.42
59:N3:89:ASP:OD1	59:N3:89:ASP:N	2.53	0.42
62:N6:5:SER:C	62:N6:7:ASP:H	2.27	0.42
68:O2:109:LEU:HA	68:O2:109:LEU:HD22	1.70	0.42
73:O7:67:LEU:O	73:O7:68:LYS:C	2.63	0.42
80:6:237:C:O2'	80:6:238:U:C5	2.73	0.42
80:6:913:G:H3'	80:6:914:G:C5'	2.49	0.42
80:6:913:G:N7	36:5:2205:U:C2	2.88	0.42
80:6:995:A:H2'	80:6:996:U:O4'	2.19	0.42
80:6:1490:C:H4'	80:6:1491:U:OP1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1541:G:C6	80:6:1542:G:C6	3.08	0.42
80:6:1756[B]:A:O2'	80:6:1757:G:H5'	2.20	0.42
80:6:1758:U:H2'	80:6:1759:C:C6	2.55	0.42
2:s0:49:ASN:O	2:s0:52:LYS:HB2	2.20	0.42
2:s0:65:ALA:O	2:s0:66:ALA:HB3	2.19	0.42
2:s0:105:GLY:O	2:s0:112:THR:HG21	2.20	0.42
2:s0:122:ILE:HG23	2:s0:144:ILE:HB	2.01	0.42
3:s1:138:PHE:HD1	3:s1:213:ARG:NH1	2.18	0.42
4:s2:227:PRO:HA	4:s2:230:TRP:CD1	2.54	0.42
6:s4:67:GLN:HB3	6:s4:69:HIS:CD2	2.54	0.42
6:s4:181:VAL:HG13	6:s4:182:TYR:O	2.20	0.42
7:s5:215:ASP:O	7:s5:219:ARG:HB2	2.19	0.42
10:s8:62:THR:HA	10:s8:76:THR:O	2.20	0.42
10:s8:114:GLU:HG2	10:s8:119:GLN:O	2.19	0.42
10:s8:184:LEU:HD21	10:s8:192:TYR:HD2	1.85	0.42
17:c5:129:GLY:HA3	82:sM:74:LYS:HG2	2.01	0.42
18:c6:78:VAL:O	18:c6:81:ILE:HG12	2.19	0.42
21:c9:57:ARG:HH11	21:c9:57:ARG:CG	2.16	0.42
23:d1:46:ILE:H	23:d1:46:ILE:HD12	1.85	0.42
23:d1:85:TYR:HD2	23:d1:85:TYR:HA	1.74	0.42
24:d2:7:LEU:HD13	24:d2:74:VAL:HG23	2.02	0.42
33:e1:90:LYS:HB2	33:e1:93:HIS:CE1	2.54	0.42
33:e1:119:ARG:O	33:e1:132:LEU:HG	2.20	0.42
33:e1:139:LEU:H	33:e1:151:ASN:HB3	1.85	0.42
36:5:41:G:N2	36:5:2803:A:N7	2.68	0.42
36:5:196:G:O6	87:5:3445:OHX:N3	2.53	0.42
36:5:357:A:H1'	41:l4:80:GLY:O	2.20	0.42
36:5:887:G:H2'	36:5:888:A:O4'	2.20	0.42
36:5:1193:A:N6	36:5:1194:G:N1	2.68	0.42
36:5:1327:C:O2'	69:o3:76:GLY:HA2	2.19	0.42
36:5:1562:C:H42	36:5:1577:G:H1	1.66	0.42
36:5:1940:G:H2'	36:5:1941:C:C6	2.54	0.42
36:5:2355:G:H4'	53:m7:139:TYR:CZ	2.54	0.42
36:5:2977:G:H5''	36:5:2977:G:C8	2.55	0.42
36:5:3124:G:C5	36:5:3125:U:C5	3.08	0.42
37:7:119:U:C2	37:7:120:C:C5	3.08	0.42
38:8:79:A:OP1	38:8:79:A:H4'	2.20	0.42
38:8:82:U:OP1	87:8:219:OHX:N5	2.52	0.42
39:l2:193:ARG:HH11	39:l2:193:ARG:HB3	1.85	0.42
42:l5:106:ALA:O	42:l5:107:ARG:C	2.63	0.42
43:l6:176:PHE:H	50:m4:117:ARG:NH2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:57:VAL:HG23	46:l9:68:LEU:HG	2.02	0.42
46:l9:90:MET:HB2	46:l9:144:ILE:CG2	2.49	0.42
51:m5:120:TRP:CZ2	51:m5:123:GLN:HG2	2.54	0.42
55:m9:159:ALA:HB1	55:m9:163:ARG:HH12	1.85	0.42
63:n7:55:LYS:O	63:n7:57:HIS:N	2.52	0.42
64:n8:47:LYS:C	64:n8:49:HIS:H	2.28	0.42
69:o3:16:TYR:CG	69:o3:25:PRO:HA	2.55	0.42
84:p0:11:TYR:HE1	84:p0:15:LEU:HD12	1.85	0.42
1:2:78:A:H1'	8:S6:175:ILE:HG12	2.02	0.41
1:2:249:U:C5	13:C1:34:TRP:CE2	3.08	0.41
1:2:348:U:H2'	1:2:349:U:H6	1.84	0.41
1:2:434:G:H5'	25:D3:78:LYS:HB3	2.02	0.41
1:2:997:G:H2'	1:2:998:A:O4'	2.19	0.41
1:2:1074:G:H5''	1:2:1074:G:H8	1.84	0.41
1:2:1132:A:H2'	1:2:1133:A:H8	1.85	0.41
1:2:1461:C:H1'	35:SM:76:VAL:HG11	2.02	0.41
1:2:1550:A:C4	1:2:1551:U:C5	3.08	0.41
1:2:1563:C:H2'	1:2:1564:U:C6	2.54	0.41
1:2:1638:G:N2	1:2:1639:C:H1'	2.34	0.41
3:S1:33:LYS:NZ	3:S1:95:ASN:HD21	2.17	0.41
3:S1:120:LEU:HD23	3:S1:121:ILE:H	1.85	0.41
3:S1:209:ASN:O	3:S1:210:ILE:HB	2.20	0.41
5:S3:75:LYS:NZ	12:C0:34:GLU:OE2	2.49	0.41
15:C3:25:TRP:HE3	15:C3:25:TRP:O	2.03	0.41
17:C5:15:HIS:H	17:C5:22:LEU:HD23	1.85	0.41
20:C8:122:HIS:O	20:C8:126:ARG:HB2	2.20	0.41
22:D0:26:LEU:HD23	22:D0:114:VAL:HA	2.01	0.41
28:D6:18:VAL:HG23	28:D6:19:LYS:N	2.35	0.41
32:E0:13:LYS:O	32:E0:17:GLN:HG2	2.20	0.41
36:1:309:U:OP1	72:O6:84:LYS:NZ	2.52	0.41
36:1:439:C:H4'	36:1:495:G:O4'	2.19	0.41
36:1:632:G:P	52:M6:93:ALA:HB3	2.60	0.41
36:1:725:G:H3'	36:1:726:G:H5''	2.02	0.41
36:1:826:G:C4	36:1:827:A:C8	3.08	0.41
36:1:980:A:C8	36:1:980:A:OP2	2.73	0.41
36:1:1234:G:C2	36:1:1255:C:C2	3.08	0.41
36:1:1922:A:C8	36:1:1923:C:C5	3.08	0.41
36:1:2209:U:H6	36:1:2209:U:P	2.43	0.41
36:1:2892:A:H2'	36:1:2893:C:H6	1.85	0.41
36:1:2952:G:H2'	86:A:3403:8AN:H2	2.01	0.41
37:3:19:C:H2'	37:3:20:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:56:ILE:O	40:L3:73:VAL:HA	2.20	0.41
42:L5:51:LEU:HB2	42:L5:144:VAL:CG1	2.50	0.41
42:L5:65:ILE:HG12	42:L5:74:VAL:HG22	2.01	0.41
45:L8:46:LEU:C	45:L8:48:ARG:N	2.76	0.41
45:L8:149:LYS:O	45:L8:176:PRO:HG2	2.20	0.41
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.20	0.41
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.20	0.41
48:M1:20:ASN:O	48:M1:126:ASP:HB2	2.19	0.41
48:M1:101:ASN:HB3	48:M1:129:VAL:O	2.19	0.41
50:M4:44:VAL:HG11	50:M4:60:LEU:HD21	2.01	0.41
54:M8:53:PHE:N	54:M8:53:PHE:CD1	2.88	0.41
56:N0:7:TYR:CD1	56:N0:61:ILE:HD11	2.55	0.41
57:N1:102:ARG:HH11	57:N1:102:ARG:HG2	1.86	0.41
64:N8:28:HIS:CE1	64:N8:32:ARG:NH2	2.88	0.41
66:O0:14:LEU:HD21	66:O0:43:ILE:HD13	2.01	0.41
71:O5:85:THR:HB	71:O5:88:LEU:HD12	2.02	0.41
74:O8:14:LEU:C	74:O8:16:ARG:N	2.78	0.41
79:Q3:17:ARG:HB3	79:Q3:18:TYR:CE2	2.55	0.41
79:Q3:83:ILE:HD13	79:Q3:83:ILE:HA	1.89	0.41
80:6:168:A:C6	80:6:169:A:C6	3.08	0.41
80:6:228:G:H2'	80:6:229:U:O4'	2.19	0.41
80:6:245:U:H2'	80:6:247:A:OP2	2.19	0.41
80:6:293:U:H6	80:6:293:U:O5'	2.03	0.41
80:6:542:A:H1'	80:6:543:C:OP1	2.19	0.41
80:6:831:U:H2'	80:6:831:U:OP2	2.20	0.41
80:6:964:U:O4'	80:6:965:U:C2	2.73	0.41
80:6:1002:G:C5	80:6:1003:A:N7	2.88	0.41
80:6:1131:A:C2	80:6:1132:A:H1'	2.55	0.41
80:6:1482:C:H4'	18:c6:77:GLN:OE1	2.19	0.41
80:6:1484:G:O2'	80:6:1485:C:H5'	2.20	0.41
80:6:1587:A:OP2	18:c6:136:SER:HB2	2.20	0.41
80:6:1595:U:N3	80:6:1600:A:C2	2.81	0.41
80:6:1623:C:H2'	80:6:1624:C:H6	1.83	0.41
3:s1:145:LYS:HG2	3:s1:149:GLN:NE2	2.35	0.41
5:s3:74:GLN:NE2	5:s3:81:PRO:HA	2.35	0.41
7:s5:97:LEU:O	7:s5:99:MET:N	2.53	0.41
7:s5:108:LEU:HD23	7:s5:108:LEU:HA	1.78	0.41
10:s8:51:GLY:O	10:s8:52:ASN:HB2	2.20	0.41
13:c1:30:ARG:H	13:c1:30:ARG:HG2	1.41	0.41
15:c3:98:VAL:C	15:c3:100:LYS:N	2.76	0.41
16:c4:89:THR:O	16:c4:128:LYS:NZ	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:87:PRO:HA	17:c5:90:ILE:CG1	2.46	0.41
20:c8:45:LEU:HD11	21:c9:36:ILE:HG22	2.02	0.41
23:d1:81:ASN:OD1	23:d1:81:ASN:N	2.51	0.41
25:d3:93:LEU:HD12	25:d3:93:LEU:HA	1.77	0.41
25:d3:104:LEU:CD2	25:d3:124:VAL:HG22	2.50	0.41
36:5:13:A:H4'	61:n5:39:LYS:HG2	2.01	0.41
36:5:756:U:H2'	36:5:757:C:C6	2.55	0.41
36:5:2568:C:N4	36:5:2574:G:C6	2.87	0.41
36:5:2659:G:O6	87:5:3409:OHX:N6	2.53	0.41
36:5:2681:U:H6	36:5:2681:U:O5'	2.03	0.41
36:5:2827:U:O4	87:5:3403:OHX:N5	2.53	0.41
36:5:2986:U:H2'	36:5:2987:A:C8	2.55	0.41
36:5:3320:A:H4'	40:l3:174:LYS:HZ1	1.84	0.41
37:7:118:A:C5	37:7:119:U:C5	3.09	0.41
38:8:98:U:H2'	38:8:99:C:O4'	2.20	0.41
41:l4:174:ALA:O	41:l4:175:HIS:C	2.61	0.41
41:l4:205:PRO:HB3	41:l4:247:PHE:CD2	2.55	0.41
45:l8:161:GLU:HA	45:l8:164:VAL:HG22	2.01	0.41
45:l8:205:ALA:O	45:l8:207:ASP:N	2.52	0.41
66:o0:45:ALA:HB2	66:o0:77:LEU:CD2	2.50	0.41
66:o0:47:ASN:HD21	66:o0:74:ASN:CG	2.28	0.41
67:o1:8:VAL:CG2	67:o1:77:ARG:HH21	2.33	0.41
68:o2:24:ARG:HG2	68:o2:25:TYR:CE1	2.54	0.41
72:o6:91:ASN:O	72:o6:94:ILE:HG22	2.20	0.41
74:o8:58:ASP:HB3	74:o8:61:LYS:CG	2.49	0.41
1:2:27:U:OP1	87:2:1963:OHX:N6	2.53	0.41
1:2:351:C:O2	13:C1:104:HIS:HD2	2.02	0.41
1:2:698:U:H2'	1:2:699:U:O4'	2.20	0.41
1:2:990:C:H2'	1:2:991:G:O4'	2.19	0.41
1:2:1082:C:H2'	1:2:1083:G:H5'	2.02	0.41
1:2:1374:C:H2'	1:2:1375:A:C8	2.55	0.41
1:2:1385:G:H2'	1:2:1386:G:H8	1.85	0.41
1:2:1570:A:H2'	1:2:1571:C:C6	2.55	0.41
1:2:1619:C:H2'	1:2:1620:C:H6	1.85	0.41
1:2:1761:U:O2'	1:2:1762:A:OP2	2.33	0.41
1:2:1796:C:OP1	28:D6:92:ARG:HG2	2.20	0.41
1:2:1796:C:C5	28:D6:6:ALA:N	2.83	0.41
2:S0:166:GLY:HA2	2:S0:170:ILE:HD11	2.02	0.41
3:S1:143:THR:HB	3:S1:205:PHE:HE1	1.84	0.41
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.86	0.41
5:S3:56:GLN:OE1	5:S3:59:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:141:THR:O	6:S4:143:ASP:N	2.53	0.41
7:S5:57:SER:C	7:S5:59:VAL:N	2.76	0.41
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	2.02	0.41
13:C1:3:THR:HG1	13:C1:82:ARG:NE	2.09	0.41
13:C1:21:ASN:ND2	13:C1:31:THR:HA	2.34	0.41
17:C5:77:ARG:HD3	17:C5:102:PHE:CE2	2.55	0.41
29:D7:3:LEU:HD22	29:D7:3:LEU:HA	1.74	0.41
36:1:156:G:O2'	36:1:157:A:H4'	2.19	0.41
36:1:250:U:H5	36:1:251:G:C8	2.38	0.41
36:1:630:A:H2'	36:1:631:U:C6	2.55	0.41
36:1:718:G:N2	36:1:721:G:H1'	2.35	0.41
36:1:750:G:H2'	36:1:751:A:C8	2.55	0.41
36:1:1472:U:C2	36:1:1473:G:C8	3.08	0.41
36:1:1724:U:C5	55:M9:128:LYS:HE2	2.56	0.41
36:1:1838:G:H4'	36:1:1839:A:C4	2.55	0.41
36:1:2191:U:H6	36:1:2191:U:O5'	2.03	0.41
36:1:2225:U:H2'	36:1:2226:U:H6	1.84	0.41
36:1:2259:A:C5	36:1:2260:U:C5	3.08	0.41
36:1:2513:U:C5	36:1:2592:G:C6	3.08	0.41
36:1:2562:A:C6	36:1:2563:G:C4	3.08	0.41
36:1:2871:G:OP2	87:1:3733:OHX:N1	2.52	0.41
37:3:77:G:H3'	56:N0:46:GLN:O	2.20	0.41
39:L2:209:HIS:CD2	39:L2:210:PRO:HD2	2.55	0.41
42:L5:103:LEU:HD13	42:L5:169:GLY:HA2	2.01	0.41
44:L7:131:GLU:O	44:L7:229:PHE:HB2	2.20	0.41
46:L9:90:MET:HE2	46:L9:179:ILE:HG22	2.02	0.41
47:M0:193:ASP:O	47:M0:194:GLY:C	2.63	0.41
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	2.02	0.41
48:M1:51:ARG:O	48:M1:61:ARG:HG3	2.19	0.41
49:M3:33:VAL:HG12	49:M3:34:SER:N	2.33	0.41
49:M3:136:GLU:HG3	49:M3:136:GLU:O	2.20	0.41
56:N0:14:LEU:H	56:N0:56:GLY:HA2	1.84	0.41
60:N4:56:ARG:O	60:N4:57:LYS:C	2.62	0.41
61:N5:27:ARG:H	61:N5:27:ARG:HG2	1.70	0.41
64:N8:103:ASP:OD1	64:N8:106:ALA:HB2	2.20	0.41
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	1.85	0.41
78:Q2:9:LYS:HE2	78:Q2:22:GLN:OE1	2.20	0.41
80:6:93:A:C6	80:6:398:G:C6	3.08	0.41
80:6:154:G:H4'	8:s6:108:VAL:HG22	2.02	0.41
80:6:234:G:H3'	80:6:234:G:N3	2.35	0.41
80:6:610:G:H2'	80:6:614:C:C5	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:808:U:O2'	80:6:809:A:H5'	2.20	0.41
80:6:1102:G:H2'	80:6:1103:U:O4'	2.21	0.41
80:6:1413:U:H4'	80:6:1414:U:OP2	2.20	0.41
80:6:1561:U:H6	80:6:1561:U:O5'	2.03	0.41
2:s0:140:ASN:OD1	23:d1:29:HIS:HA	2.20	0.41
3:s1:57:ALA:O	3:s1:61:LEU:HB2	2.20	0.41
3:s1:138:PHE:CD2	3:s1:138:PHE:N	2.88	0.41
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.53	0.41
6:s4:181:VAL:HG11	6:s4:225:VAL:HG13	2.02	0.41
8:s6:63:MET:HE2	8:s6:106:LEU:HD22	2.01	0.41
11:s9:148:VAL:HG11	11:s9:153:GLU:HG3	2.01	0.41
14:c2:131:ASP:OD1	14:c2:133:LEU:HD12	2.20	0.41
24:d2:21:GLY:O	29:d7:3:LEU:HD22	2.20	0.41
29:d7:63:LEU:HD23	29:d7:63:LEU:HA	1.80	0.41
36:5:51:A:C4	36:5:52:A:C8	3.08	0.41
36:5:169:U:H4'	36:5:170:G:OP1	2.20	0.41
36:5:191:U:H2'	36:5:192:C:C6	2.55	0.41
36:5:208:C:H2'	36:5:209:A:H5'	2.01	0.41
36:5:209:A:H4'	36:5:211:A:N7	2.35	0.41
36:5:529:A:C2	36:5:530:G:C4	3.08	0.41
36:5:1032:C:H5'	36:5:1033:U:OP2	2.20	0.41
36:5:1464:G:N2	36:5:1467:A:O5'	2.42	0.41
36:5:1655:G:H1'	36:5:1800:A:N6	2.35	0.41
36:5:1678:G:C2	36:5:1679:A:C4	3.07	0.41
36:5:1682:U:O2	58:n2:82:LYS:NZ	2.42	0.41
36:5:1852:G:N3	73:o7:9:GLY:HA3	2.34	0.41
36:5:1912:U:H2'	36:5:1913:A:O4'	2.18	0.41
36:5:2946:A:H2'	36:5:2982:A:N7	2.35	0.41
36:5:3028:G:H2'	36:5:3029:A:C8	2.55	0.41
36:5:3154:C:O2	36:5:3154:C:H2'	2.19	0.41
36:5:3383:G:H2'	36:5:3384:U:H6	1.84	0.41
87:5:3502:OHX:N4	37:7:86:U:O2	2.53	0.41
38:8:39:G:N3	38:8:105:A:C2	2.88	0.41
40:l3:4:ARG:HG3	40:l3:6:TYR:O	2.20	0.41
42:l5:216:GLU:O	42:l5:220:SER:HB3	2.20	0.41
43:l6:98:VAL:HA	43:l6:101:PHE:HD2	1.85	0.41
47:m0:56:GLU:HB3	47:m0:58:GLU:HG3	2.02	0.41
47:m0:76:MET:HE1	47:m0:148:VAL:CA	2.36	0.41
48:m1:166:LYS:C	48:m1:168:ASP:N	2.73	0.41
50:m4:18:GLY:O	50:m4:69:THR:HA	2.19	0.41
51:m5:174:ILE:O	51:m5:174:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:54:HIS:O	57:n1:56:PHE:N	2.53	0.41
59:n3:7:GLN:HB2	59:n3:125:LEU:O	2.20	0.41
63:n7:22:LYS:HE2	63:n7:129:TRP:CH2	2.55	0.41
64:n8:27:LYS:O	64:n8:28:HIS:CD2	2.73	0.41
69:o3:80:VAL:HG12	69:o3:81:VAL:H	1.85	0.41
70:o4:81:CYS:O	70:o4:83:ASN:N	2.53	0.41
72:o6:54:GLU:O	72:o6:58:ILE:HG23	2.19	0.41
79:q3:32:GLN:O	79:q3:37:TYR:OH	2.30	0.41
84:p0:15:LEU:O	84:p0:19:LEU:HG	2.20	0.41
1:2:34:G:C4	1:2:35:U:C5	3.08	0.41
1:2:240:U:OP1	1:2:240:U:H4'	2.19	0.41
1:2:800:U:C2	1:2:801:G:C8	3.09	0.41
1:2:869:A:C6	1:2:960:U:N3	2.88	0.41
1:2:992:A:C2	1:2:1012:U:N3	2.73	0.41
1:2:1281:G:OP1	22:D0:78:THR:HG21	2.20	0.41
1:2:1293:U:O5'	1:2:1293:U:H6	2.03	0.41
2:S0:36:TYR:OH	2:S0:56:LYS:NZ	2.45	0.41
2:S0:52:LYS:CD	23:D1:82:VAL:HA	2.44	0.41
3:S1:32:ILE:HD11	3:S1:46:THR:OG1	2.18	0.41
3:S1:39:GLU:HG3	3:S1:40:ASN:N	2.35	0.41
4:S2:103:VAL:HA	4:S2:112:GLY:O	2.20	0.41
6:S4:128:LYS:HG3	6:S4:140:VAL:HG13	2.02	0.41
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.19	0.41
7:S5:128:ASN:O	7:S5:131:GLN:HB3	2.20	0.41
11:S9:135:ALA:HB1	11:S9:139:GLN:O	2.20	0.41
15:C3:21:ASN:HB2	15:C3:22:ALA:H	1.64	0.41
16:C4:127:ARG:HG2	16:C4:128:LYS:O	2.19	0.41
16:C4:129:LYS:HB2	16:C4:129:LYS:HE3	1.53	0.41
18:C6:47:LYS:NZ	18:C6:82:ARG:NH2	2.69	0.41
20:C8:142:GLY:C	20:C8:145:ARG:HG3	2.46	0.41
22:D0:48:HIS:CD2	22:D0:50:LEU:HD11	2.55	0.41
22:D0:50:LEU:HB3	22:D0:51:VAL:H	1.77	0.41
25:D3:127:VAL:O	25:D3:129:GLY:N	2.53	0.41
34:SR:195:HIS:CE1	34:SR:214:ALA:HA	2.56	0.41
36:1:541:U:O4	87:1:3810:OHX:N3	2.52	0.41
36:1:608:A:C4	43:L6:22:ARG:NH1	2.89	0.41
36:1:770:G:OP1	49:M3:171:ARG:HD3	2.20	0.41
36:1:1086:C:H1'	65:N9:47:LEU:HD21	2.01	0.41
36:1:1412:G:C6	36:1:1413:G:C5	3.09	0.41
36:1:2349:U:H5'	36:1:2391:G:OP1	2.21	0.41
36:1:2696:A:H2'	36:1:2697:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2763:U:H5'	54:M8:176:ARG:HG3	2.00	0.41
36:1:2814:G:O6	87:1:3733:OHX:N4	2.53	0.41
36:1:2881:C:C2	36:1:2882:U:C5	3.08	0.41
36:1:2883:U:H2'	36:1:2884:C:C6	2.55	0.41
36:1:2998:U:H4'	36:1:3394:U:O2'	2.20	0.41
36:1:3045:G:H2'	36:1:3046:A:O4'	2.21	0.41
36:1:3180:A:C6	52:M6:114:LYS:HD2	2.55	0.41
36:1:3370:A:H5'	40:L3:384:LYS:HD2	2.01	0.41
39:L2:177:LYS:HD2	79:Q3:26:VAL:HG13	2.01	0.41
40:L3:323:MET:HE1	40:L3:356:LEU:HD11	2.01	0.41
45:L8:178:ALA:HB2	45:L8:218:ILE:HG23	2.02	0.41
46:L9:111:PHE:CE1	46:L9:127:PRO:HB3	2.55	0.41
46:L9:180:TYR:N	46:L9:180:TYR:CD2	2.88	0.41
49:M3:48:PRO:HG3	49:M3:126:PHE:CE2	2.55	0.41
51:M5:120:TRP:HA	51:M5:130:PHE:CD1	2.55	0.41
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.84	0.41
59:N3:108:GLU:HG2	59:N3:128:ARG:NH1	2.36	0.41
62:N6:80:VAL:HG12	62:N6:99:LEU:HB2	2.02	0.41
62:N6:100:HIS:HA	62:N6:101:PRO:HD2	1.80	0.41
64:N8:73:LEU:HD11	64:N8:78:LEU:H	1.85	0.41
70:O4:65:VAL:CG1	70:O4:69:HIS:HB2	2.50	0.41
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.20	0.41
74:O8:15:THR:O	74:O8:70:PRO:HG2	2.20	0.41
80:6:22:A:C6	80:6:604:A:N1	2.88	0.41
80:6:82:U:H2'	80:6:83:G:O4'	2.21	0.41
80:6:362:G:H8	80:6:362:G:O5'	2.02	0.41
80:6:609:U:C5	25:d3:22:ASN:O	2.74	0.41
80:6:686:C:H2'	80:6:687:G:O4'	2.20	0.41
80:6:762:A:H4'	11:s9:71:PHE:HE1	1.85	0.41
80:6:1026:A:N3	80:6:1790:A:O2'	2.48	0.41
80:6:1224:A:C6	80:6:1225:U:C4	3.09	0.41
80:6:1320:U:H3'	2:s0:101:ARG:HH21	1.85	0.41
80:6:1370:U:O4	87:6:1997:OHX:N6	2.53	0.41
80:6:1592:A:C2	80:6:1605:G:C2	3.08	0.41
4:s2:59:HIS:CD2	4:s2:238:SER:HA	2.55	0.41
5:s3:210:GLU:OE2	19:c7:19:ARG:NH1	2.49	0.41
6:s4:160:VAL:O	6:s4:162:ILE:HD12	2.20	0.41
6:s4:212:ASP:C	6:s4:214:LEU:H	2.28	0.41
10:s8:184:LEU:HG	10:s8:188:GLU:HG2	2.03	0.41
81:c0:32:HIS:CD2	81:c0:33:GLU:HG2	2.54	0.41
81:c0:32:HIS:CD2	81:c0:34:GLU:O	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:22:ASN:OD1	13:c1:24:LYS:HB2	2.20	0.41
15:c3:142:GLU:O	15:c3:143:SER:C	2.63	0.41
16:c4:42:VAL:HG13	16:c4:67:VAL:HG23	2.02	0.41
19:c7:34:LEU:HD23	19:c7:34:LEU:HA	1.86	0.41
22:d0:20:ILE:O	22:d0:94:GLU:HA	2.21	0.41
22:d0:80:GLU:OE1	31:d9:44:ARG:NH1	2.52	0.41
34:sR:16:HIS:CE1	34:sR:43:ILE:HG12	2.55	0.41
34:sR:31:ASN:O	34:sR:47:LEU:N	2.42	0.41
34:sR:103:PHE:CE1	34:sR:138:GLY:HA2	2.55	0.41
34:sR:228:LYS:HB2	34:sR:228:LYS:HE3	1.85	0.41
34:sR:250:TYR:N	34:sR:250:TYR:CD1	2.87	0.41
36:5:304:G:C6	64:n8:62:HIS:CE1	3.09	0.41
36:5:645:A:C8	36:5:649:A:N6	2.88	0.41
36:5:875:G:N2	36:5:876:A:H1'	2.35	0.41
36:5:953:G:H1'	36:5:1115:G:H5''	2.01	0.41
36:5:1084:A:C6	36:5:1085:A:C6	3.09	0.41
36:5:1139:G:C6	36:5:1140:G:C5	3.08	0.41
36:5:1254:C:H2'	36:5:1255:C:H6	1.86	0.41
36:5:1266:G:C6	36:5:1276:U:C2	3.08	0.41
36:5:2232:A:O2'	36:5:2429:G:H5'	2.20	0.41
36:5:2647:A:N6	36:5:2648:G:C6	2.89	0.41
36:5:2655:U:H2'	78:q2:3:ASN:O	2.21	0.41
36:5:2902:A:H2'	36:5:2903:A:O4'	2.21	0.41
36:5:2962:U:C4	36:5:2963:C:C5	3.07	0.41
36:5:3060:C:H4'	36:5:3372:A:N3	2.35	0.41
36:5:3121:U:H4'	36:5:3122:A:OP1	2.20	0.41
36:5:3220:G:C2	36:5:3221:C:C6	3.09	0.41
37:7:27:A:C2	37:7:28:C:C2	3.08	0.41
40:l3:10:ARG:NH2	40:l3:14:LEU:HD21	2.36	0.41
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.46	0.41
41:l4:144:LYS:O	41:l4:145:ILE:O	2.39	0.41
41:l4:210:ALA:HB2	41:l4:254:ALA:HA	2.02	0.41
41:l4:301:PRO:O	41:l4:302:ALA:HB2	2.20	0.41
42:l5:122:VAL:C	42:l5:124:GLU:N	2.78	0.41
42:l5:205:SER:OG	42:l5:206:GLN:N	2.52	0.41
45:l8:68:ARG:H	45:l8:68:ARG:HG2	1.61	0.41
46:l9:27:VAL:O	46:l9:33:THR:HA	2.20	0.41
52:m6:143:THR:HG1	52:m6:150:GLU:HB2	1.82	0.41
53:m7:105:LYS:HB2	53:m7:107:LEU:HD13	2.02	0.41
55:m9:123:LEU:O	55:m9:127:SER:OG	2.37	0.41
56:n0:73:LYS:HD2	56:n0:128:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:81:GLN:NE2	59:n3:83:LYS:O	2.43	0.41
63:n7:76:ASN:OD1	63:n7:77:TYR:N	2.53	0.41
66:o0:83:LYS:HG2	66:o0:85:PHE:CZ	2.55	0.41
70:o4:41:ARG:CZ	70:o4:50:ALA:HB1	2.50	0.41
78:q2:37:ALA:C	78:q2:39:GLY:H	2.28	0.41
1:2:142:G:P	8:S6:139:ASN:HD21	2.43	0.41
1:2:475:A:C6	1:2:476:U:C2	3.08	0.41
1:2:647:G:C2	1:2:688:G:C2	3.09	0.41
1:2:1026:A:C2	1:2:1790:A:N3	2.89	0.41
1:2:1080:U:H3'	1:2:1081:A:H8	1.86	0.41
1:2:1153:G:C2	1:2:1626:U:O2	2.74	0.41
1:2:1433:G:N7	22:D0:71:PRO:HB3	2.35	0.41
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.56	0.41
2:S0:136:ALA:HB1	2:S0:141:ILE:HB	2.02	0.41
2:S0:154:GLU:HB2	2:S0:155:PHE:HD2	1.86	0.41
3:S1:27:LYS:HD3	3:S1:27:LYS:HA	1.87	0.41
3:S1:231:LEU:C	3:S1:232:HIS:CD2	2.98	0.41
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.21	0.41
18:C6:14:LYS:HB3	18:C6:15:SER:H	1.73	0.41
20:C8:50:ALA:HB3	20:C8:52:VAL:HG23	2.02	0.41
22:D0:55:PRO:HG3	22:D0:91:ILE:HD11	2.01	0.41
24:D2:16:ASN:O	24:D2:20:THR:OG1	2.38	0.41
25:D3:144:ARG:H	25:D3:144:ARG:HG3	1.56	0.41
26:D4:94:TYR:CD2	26:D4:96:LEU:HD11	2.49	0.41
28:D6:84:VAL:C	28:D6:86:VAL:H	2.29	0.41
31:D9:46:LYS:O	31:D9:48:ASN:N	2.53	0.41
34:SR:123:ILE:HG21	34:SR:169:ILE:HG21	2.02	0.41
35:SM:46:LYS:HD3	36:1:1018:G:H5'	2.03	0.41
36:1:17:G:C6	36:1:18:G:C5	3.08	0.41
36:1:19:U:H3	38:4:140:G:H1	1.69	0.41
36:1:61:A:H2'	36:1:62:A:O4'	2.20	0.41
36:1:242:C:HO2'	36:1:243:G:H8	1.61	0.41
36:1:289:A:O2'	36:1:290:G:H5'	2.20	0.41
36:1:679:U:H2'	36:1:680:G:C8	2.54	0.41
36:1:1080:A:OP1	42:L5:140:ARG:HB2	2.20	0.41
36:1:1307:G:H1'	36:1:1308:A:C5	2.55	0.41
36:1:1375:G:N3	36:1:1407:A:H2	2.19	0.41
36:1:1473:G:H4'	55:M9:26:PRO:HD3	2.03	0.41
36:1:1940:G:H2'	36:1:1941:C:O4'	2.19	0.41
36:1:2646:C:H4'	47:M0:119:TRP:CE2	2.55	0.41
36:1:2814:G:C5	87:1:3733:OHX:N4	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2943:G:H2'	36:1:2944:U:O4'	2.20	0.41
36:1:3028:G:H2'	36:1:3029:A:C8	2.55	0.41
36:1:3089:C:C2'	36:1:3090:U:H5'	2.50	0.41
36:1:3223:A:C5	36:1:3263:G:C6	3.08	0.41
87:1:3796:OHX:N5	53:M7:138:LYS:HE2	2.35	0.41
37:3:15:C:C2	37:3:66:A:C2	3.08	0.41
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.21	0.41
38:4:3:A:H2'	38:4:4:C:O4'	2.21	0.41
41:L4:52:VAL:CB	41:L4:99:MET:HE3	2.51	0.41
42:L5:27:LYS:HG2	48:M1:143:ARG:NH1	2.35	0.41
42:L5:76:ALA:HB3	42:L5:109:THR:CG2	2.50	0.41
44:L7:26:VAL:CG1	44:L7:27:ALA:H	2.31	0.41
44:L7:174:GLY:HA2	44:L7:177:GLY:O	2.19	0.41
45:L8:134:TYR:CD2	45:L8:190:VAL:HG21	2.55	0.41
47:M0:66:GLU:OE1	47:M0:69:ARG:NE	2.51	0.41
47:M0:146:ASP:OD2	47:M0:146:ASP:N	2.46	0.41
47:M0:173:PHE:N	47:M0:173:PHE:CD1	2.88	0.41
52:M6:22:VAL:O	52:M6:26:GLN:HG2	2.20	0.41
54:M8:156:GLY:O	54:M8:159:LYS:HG2	2.20	0.41
55:M9:159:ALA:HA	55:M9:162:ARG:NH2	2.35	0.41
56:N0:12:ARG:NH1	57:N1:141:VAL:HB	2.36	0.41
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.84	0.41
56:N0:132:THR:O	56:N0:134:ASP:N	2.51	0.41
58:N2:59:ASP:C	58:N2:61:THR:H	2.28	0.41
61:N5:45:LYS:HD3	71:O5:75:TYR:CD2	2.55	0.41
62:N6:81:GLN:OE1	62:N6:96:PRO:HB2	2.20	0.41
63:N7:87:LEU:HB2	63:N7:127:ASN:ND2	2.34	0.41
64:N8:15:VAL:H	64:N8:15:VAL:HG23	1.64	0.41
64:N8:116:GLY:HA2	64:N8:137:LYS:HZ2	1.85	0.41
73:O7:18:LEU:HA	73:O7:18:LEU:HD23	1.77	0.41
78:Q2:38:GLN:NE2	78:Q2:38:GLN:HA	2.34	0.41
78:Q2:59:HIS:O	78:Q2:61:LYS:N	2.45	0.41
80:6:15:U:C4	80:6:16:G:C5	3.08	0.41
80:6:380:U:C2	11:s9:5:PRO:HG3	2.55	0.41
80:6:654:C:H2'	80:6:655:G:H8	1.84	0.41
80:6:738:G:H2'	80:6:739:G:C8	2.56	0.41
80:6:1217:A:N6	31:d9:8:PHE:CE2	2.88	0.41
80:6:1479:A:O2'	80:6:1480:G:H5'	2.20	0.41
80:6:1664:C:H2'	80:6:1665:U:O4'	2.21	0.41
3:s1:103:MET:O	3:s1:214:LYS:HA	2.19	0.41
6:s4:44:LEU:O	6:s4:48:LEU:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:148:SER:O	8:s6:151:ASP:HB2	2.19	0.41
11:s9:113:VAL:HG21	11:s9:134:ILE:HG21	2.02	0.41
13:c1:40:LEU:HD13	13:c1:40:LEU:H	1.85	0.41
18:c6:36:ILE:HD11	18:c6:48:VAL:HG22	2.01	0.41
19:c7:57:LEU:H	19:c7:57:LEU:HG	1.69	0.41
22:d0:70:THR:HG22	22:d0:71:PRO:O	2.20	0.41
25:d3:109:ARG:HD2	25:d3:112:LYS:NZ	2.35	0.41
33:e1:113:LYS:HB3	33:e1:113:LYS:HE3	1.80	0.41
34:sR:197:SER:HB2	34:sR:216:LYS:HB3	2.03	0.41
34:sR:261:LYS:HE2	34:sR:273:ASP:OD2	2.19	0.41
36:5:163:C:C4	36:5:164:A:N7	2.88	0.41
36:5:344:A:C5	36:5:345:G:C8	3.08	0.41
36:5:503:C:H2'	36:5:504:A:C8	2.55	0.41
36:5:532:A:C8	36:5:555:U:C4	3.09	0.41
36:5:579:G:N2	36:5:580:C:C2	2.88	0.41
36:5:889:U:C4	36:5:890:C:C5	3.08	0.41
36:5:1011:A:C2	36:5:1040:A:C2	3.08	0.41
36:5:1015:U:O3'	36:5:1016:C:H2'	2.20	0.41
36:5:1422:G:C5	36:5:1423:C:C5	3.08	0.41
36:5:1461:A:H2'	36:5:1462:A:O4'	2.21	0.41
36:5:1637:A:O3'	63:n7:15:ARG:HD3	2.20	0.41
36:5:2651:G:C2	36:5:2796:G:C4	3.09	0.41
36:5:2697:A:C2	36:5:2698:G:C5	3.08	0.41
36:5:2770:G:C6	36:5:2771:U:O4	2.73	0.41
36:5:2885:C:C2'	36:5:2886:U:H5'	2.51	0.41
36:5:3126:C:OP1	87:5:3726:OHX:N6	2.54	0.41
37:7:31:U:H4'	42:l5:218:ARG:NH1	2.36	0.41
41:l4:165:ALA:O	41:l4:168:ALA:HB3	2.20	0.41
43:l6:97:ASN:ND2	43:l6:99:GLU:HB2	2.34	0.41
44:l7:25:GLN:O	44:l7:28:ALA:HB3	2.20	0.41
45:l8:82:LEU:HD12	45:l8:82:LEU:HA	1.86	0.41
46:l9:38:LEU:HA	46:l9:38:LEU:HD23	1.89	0.41
49:m3:48:PRO:HD2	71:o5:115:LYS:HD2	2.02	0.41
57:n1:120:LYS:C	57:n1:123:GLY:H	2.27	0.41
62:n6:63:LYS:CE	62:n6:97:ILE:HD13	2.43	0.41
1:2:66:U:H5'	8:S6:173:PRO:HA	2.03	0.41
1:2:386:G:O2'	1:2:425:A:N1	2.50	0.41
1:2:540:G:H2'	1:2:540:G:OP2	2.21	0.41
1:2:803:A:N3	9:S7:104:ARG:CZ	2.84	0.41
1:2:1119:G:O6	87:2:2037:OHX:N1	2.54	0.41
1:2:1217:A:H8	1:2:1217:A:H5'	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1429:G:C5	1:2:1430:U:C4	3.08	0.41
1:2:1621:U:C2	1:2:1622:G:C8	3.09	0.41
4:S2:82:ASN:O	4:S2:101:VAL:N	2.50	0.41
4:S2:83:ILE:HA	4:S2:99:LYS:O	2.20	0.41
6:S4:122:LYS:CB	6:S4:164:LEU:HD21	2.50	0.41
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.21	0.41
11:S9:112:GLN:HG3	11:S9:148:VAL:HG21	2.02	0.41
13:C1:54:ILE:CG2	13:C1:55:ASP:N	2.83	0.41
30:D8:29:ARG:HA	30:D8:41:VAL:HG22	2.01	0.41
34:SR:62:LYS:O	34:SR:92:TRP:HH2	2.03	0.41
34:SR:278:PHE:CE1	34:SR:287:PRO:HD2	2.56	0.41
36:1:186:U:OP2	87:1:3806:OHX:N3	2.53	0.41
36:1:281:G:C6	36:1:282:G:C6	3.09	0.41
36:1:345:G:H2'	38:4:25:G:O2'	2.20	0.41
36:1:591:G:N3	43:L6:19:LYS:N	2.66	0.41
36:1:1509:A:H2'	36:1:1510:G:O4'	2.20	0.41
36:1:1662:G:C6	36:1:1663:C:C4	3.09	0.41
36:1:1718:G:C2	36:1:1727:G:C6	3.08	0.41
36:1:1902:G:C6	36:1:1903:U:C2	3.09	0.41
36:1:1919:G:H1'	36:1:1934:G:N2	2.34	0.41
36:1:1949:G:H2'	36:1:1950:U:H6	1.86	0.41
36:1:2178:A:H5''	39:L2:132:ASN:OD1	2.19	0.41
36:1:2184:U:C2	36:1:2185:G:C8	3.08	0.41
36:1:2206:G:H8	36:1:2206:G:OP2	2.03	0.41
36:1:2390:A:H2'	36:1:2391:G:O4'	2.21	0.41
36:1:2572:C:O2'	36:1:2573:G:O5'	2.39	0.41
36:1:2648:G:C6	36:1:2649:A:C5	3.09	0.41
36:1:2656:A:C4	36:1:2658:G:N7	2.89	0.41
36:1:2901:G:H5'	46:L9:175:PHE:CZ	2.55	0.41
39:L2:46:LYS:O	39:L2:47:GLN:HB2	2.21	0.41
40:L3:67:PHE:HD1	40:L3:72:VAL:HG12	1.85	0.41
41:L4:32:PRO:O	41:L4:35:VAL:HB	2.20	0.41
42:L5:132:THR:HG21	42:L5:170:GLY:O	2.20	0.41
43:L6:67:GLY:HA3	43:L6:68:PRO:O	2.21	0.41
43:L6:174:LEU:HD23	43:L6:174:LEU:HA	1.69	0.41
45:L8:26:LEU:HD22	63:N7:66:THR:HG21	2.02	0.41
45:L8:36:ILE:O	45:L8:38:GLN:HG2	2.21	0.41
45:L8:45:ASN:HD21	45:L8:47:SER:HB3	1.86	0.41
46:L9:41:ILE:O	46:L9:41:ILE:HD13	2.19	0.41
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.55	0.41
48:M1:110:ILE:H	48:M1:110:ILE:HG12	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:29:THR:O	53:M7:30:ARG:C	2.62	0.41
55:M9:106:LEU:HB3	55:M9:120:TYR:CE1	2.55	0.41
59:N3:123:ALA:C	59:N3:125:LEU:N	2.78	0.41
64:N8:79:TRP:HZ2	64:N8:121:VAL:HB	1.86	0.41
67:O1:42:LEU:O	67:O1:42:LEU:HG	2.18	0.41
79:Q3:55:TRP:CE3	79:Q3:71:VAL:HG22	2.55	0.41
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	2.03	0.41
80:6:63:G:C2	80:6:64:U:C6	3.09	0.41
80:6:602:U:H2'	80:6:603:U:H6	1.83	0.41
80:6:993:A:H2'	80:6:994:G:O4'	2.20	0.41
80:6:1140:G:OP2	87:6:1926:OHX:N1	2.53	0.41
80:6:1636:C:C2	80:6:1638:G:C5	3.08	0.41
80:6:1778:G:C4	80:6:1779:U:C5	3.09	0.41
2:s0:66:ALA:HB1	23:d1:50:TYR:HD1	1.84	0.41
3:s1:105:PHE:O	3:s1:106:THR:O	2.37	0.41
5:s3:187:LYS:HE3	5:s3:187:LYS:HB2	1.75	0.41
6:s4:117:GLU:C	6:s4:119:ALA:H	2.29	0.41
7:s5:28:PRO:O	7:s5:29:ILE:HB	2.21	0.41
7:s5:114:ILE:O	7:s5:117:THR:N	2.53	0.41
13:c1:90:TYR:OH	13:c1:105:LYS:NZ	2.54	0.41
20:c8:116:LEU:HA	20:c8:119:ILE:HG22	2.03	0.41
21:c9:76:LEU:O	21:c9:80:TYR:HD2	2.03	0.41
22:d0:118:VAL:HB	22:d0:119:ALA:H	1.69	0.41
24:d2:114:GLU:O	24:d2:117:ARG:HB3	2.19	0.41
29:d7:10:PRO:HG2	29:d7:15:GLU:OE1	2.21	0.41
34:sR:103:PHE:CD1	34:sR:138:GLY:HA2	2.55	0.41
34:sR:133:VAL:O	34:sR:141:LEU:N	2.40	0.41
34:sR:251:TRP:CZ2	34:sR:271:VAL:HG11	2.55	0.41
36:5:291:C:O5'	51:m5:68:ARG:NH1	2.53	0.41
36:5:357:A:O4'	41:l4:81:GLY:HA3	2.21	0.41
36:5:873:C:H3'	36:5:874:U:H4'	2.02	0.41
36:5:1770:G:H5'	36:5:1771:C:OP2	2.21	0.41
36:5:1920:U:H1'	36:5:1933:A:C6	2.54	0.41
36:5:2763:U:H6	36:5:2763:U:O5'	2.02	0.41
36:5:3206:C:H5''	36:5:3207:U:O4'	2.19	0.41
36:5:3218:A:N1	69:o3:5:HIS:ND1	2.67	0.41
36:5:3251:U:H2'	36:5:3252:G:H8	1.84	0.41
36:5:3288:G:O2'	36:5:3289:G:P	2.78	0.41
39:l2:174:ARG:HA	79:q3:69:TYR:CE2	2.55	0.41
40:l3:56:ILE:HD12	40:l3:359:ILE:HA	2.02	0.41
40:l3:205:VAL:HG11	40:l3:322:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:122:THR:HG22	41:l4:235:LEU:CB	2.49	0.41
41:l4:193:LYS:O	41:l4:198:ARG:HG2	2.20	0.41
42:l5:61:ILE:H	42:l5:61:ILE:HG12	1.65	0.41
46:l9:94:TYR:HA	46:l9:177:ASP:OD2	2.21	0.41
48:m1:22:SER:HA	48:m1:66:ALA:CB	2.51	0.41
49:m3:89:TYR:O	49:m3:92:THR:N	2.47	0.41
52:m6:18:ARG:NH1	52:m6:128:ARG:NH1	2.68	0.41
53:m7:27:LYS:HG2	53:m7:63:PHE:CG	2.56	0.41
54:m8:174:ARG:HB3	64:n8:56:VAL:HG11	2.02	0.41
55:m9:106:LEU:HD12	55:m9:106:LEU:HA	1.77	0.41
59:n3:88:ARG:C	59:n3:90:GLY:H	2.29	0.41
63:n7:55:LYS:C	63:n7:57:HIS:H	2.27	0.41
67:o1:61:LYS:HB2	67:o1:61:LYS:HE2	1.83	0.41
71:o5:24:LEU:HA	71:o5:24:LEU:HD23	1.84	0.41
77:q1:6:ARG:O	77:q1:10:THR:HG23	2.21	0.41
1:2:809:A:C6	1:2:810:G:N1	2.89	0.41
1:2:1241:G:H1'	17:C5:79:HIS:CG	2.56	0.41
1:2:1497:U:O3'	21:C9:75:LYS:HE2	2.21	0.41
1:2:1605:G:C5	1:2:1606:C:C5	3.08	0.41
1:2:1635:A:O5'	1:2:1635:A:H8	2.02	0.41
1:2:1777:G:H2'	1:2:1778:G:O4'	2.20	0.41
2:S0:60:ALA:HB3	2:S0:177:LEU:HD21	2.03	0.41
4:S2:69:ILE:HD13	4:S2:136:VAL:HG11	2.03	0.41
6:S4:45:ILE:HA	6:S4:61:VAL:HG11	2.01	0.41
7:S5:97:LEU:HD23	7:S5:97:LEU:HA	1.87	0.41
8:S6:189:HIS:CE1	8:S6:193:LEU:HG	2.55	0.41
10:S8:67:TRP:HE3	10:S8:109:PHE:HD2	1.67	0.41
10:S8:197:THR:C	10:S8:199:LYS:H	2.28	0.41
11:S9:117:GLY:O	11:S9:119:ALA:N	2.53	0.41
15:C3:67:THR:C	15:C3:69:ASN:H	2.29	0.41
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.20	0.41
17:C5:79:HIS:O	17:C5:81:ARG:N	2.52	0.41
26:D4:60:PHE:H	26:D4:71:GLY:HA2	1.86	0.41
28:D6:12:LYS:HE2	28:D6:16:GLY:N	2.35	0.41
29:D7:61:THR:HG23	29:D7:62:ILE:N	2.36	0.41
34:SR:87:LYS:HB3	34:SR:106:HIS:O	2.21	0.41
36:1:591:G:H4'	36:1:592:A:OP1	2.21	0.41
36:1:871:U:H2'	36:1:872:U:H6	1.83	0.41
36:1:874:U:O4	36:1:2979:U:H5	2.03	0.41
36:1:1063:G:H2'	36:1:1097:G:N2	2.36	0.41
36:1:1150:A:C8	36:1:1151:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1496:C:O2	36:1:1521:G:N2	2.53	0.41
36:1:2157:G:O2'	39:L2:156:LYS:HD2	2.20	0.41
36:1:2297:U:N3	36:1:2299:A:C6	2.88	0.41
36:1:2816:G:C2	36:1:2870:C:C4	3.08	0.41
36:1:2930:A:O2'	59:N3:38:ALA:HB2	2.21	0.41
36:1:3022:G:H22	36:1:3031:G:H2'	1.86	0.41
36:1:3058:U:OP1	67:O1:28:ARG:NH2	2.42	0.41
36:1:3317:U:C6	87:1:3562:OHX:N3	2.89	0.41
36:1:3384:U:H2'	36:1:3385:U:H6	1.85	0.41
38:4:66:A:H2'	38:4:67:U:H6	1.86	0.41
40:L3:322:ILE:HG22	40:L3:324:VAL:HG23	2.02	0.41
42:L5:78:ALA:HA	42:L5:82:GLU:OE2	2.19	0.41
45:L8:25:PRO:HB2	45:L8:26:LEU:H	1.56	0.41
46:L9:27:VAL:HG11	46:L9:79:ILE:HG12	2.02	0.41
47:M0:216:TYR:C	87:M0:303:OHX:N6	2.79	0.41
48:M1:6:GLN:NE2	48:M1:6:GLN:HA	2.34	0.41
51:M5:158:HIS:C	51:M5:160:GLU:N	2.77	0.41
64:N8:133:LEU:HD13	64:N8:137:LYS:HE2	2.02	0.41
66:O0:53:LYS:O	66:O0:57:GLU:HG3	2.21	0.41
71:O5:38:ARG:HG3	71:O5:39:PRO:HD2	2.01	0.41
78:Q2:83:LEU:HD23	78:Q2:83:LEU:HA	1.76	0.41
80:6:119:A:H1'	80:6:397:A:C5	2.56	0.41
80:6:399:A:C2	6:s4:3:ARG:NH1	2.83	0.41
80:6:478:A:H5'	32:e0:33:ARG:NH2	2.35	0.41
80:6:972:G:O2'	36:5:847:A:N1	2.51	0.41
80:6:994:G:O2'	80:6:995:A:H5'	2.21	0.41
80:6:1054:U:H2'	80:6:1055:U:O4'	2.21	0.41
80:6:1349:G:O2'	80:6:1379:C:N3	2.47	0.41
80:6:1452:U:C4	80:6:1453:G:N7	2.88	0.41
7:s5:26:ALA:HB3	18:c6:28:LEU:N	2.36	0.41
8:s6:134:GLY:HA3	8:s6:158:ILE:HG13	2.03	0.41
10:s8:42:ARG:HB3	10:s8:59:ARG:HB2	2.00	0.41
10:s8:62:THR:HA	10:s8:77:ARG:HA	2.03	0.41
11:s9:150:LEU:HA	11:s9:150:LEU:HD12	1.67	0.41
13:c1:7:VAL:O	13:c1:9:SER:N	2.44	0.41
17:c5:112:LEU:HD23	17:c5:112:LEU:HA	1.75	0.41
18:c6:114:ARG:O	18:c6:115:THR:CB	2.69	0.41
26:d4:20:ARG:HD3	26:d4:76:TYR:CZ	2.55	0.41
30:d8:11:LYS:O	30:d8:30:VAL:HA	2.20	0.41
33:e1:123:ASN:O	33:e1:124:PRO:C	2.63	0.41
36:5:67:A:OP2	87:5:3797:OHX:N5	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:113:C:C2	36:5:319:A:C2	3.08	0.41
36:5:151:A:HO2'	36:5:152:U:P	2.42	0.41
36:5:167:U:H3	36:5:255:A:H2	1.68	0.41
36:5:302:U:C4	36:5:303:G:N7	2.88	0.41
36:5:530:G:H2'	36:5:531:G:O4'	2.21	0.41
36:5:699:A:C6	36:5:700:C:C4	3.08	0.41
36:5:725:G:C2	36:5:746:A:C2	3.09	0.41
36:5:1066:G:OP1	87:5:3772:OHX:N2	2.54	0.41
36:5:1235:U:H4'	36:5:1236:G:C5'	2.48	0.41
36:5:1455:U:C6	36:5:3078:U:C6	3.09	0.41
36:5:1641:U:O2'	36:5:1642:A:H3'	2.20	0.41
36:5:2271:A:N7	36:5:2272:G:C6	2.89	0.41
36:5:2523:A:C4	45:l8:51:LYS:HG3	2.56	0.41
36:5:2664:C:O2'	36:5:2665:U:H5'	2.21	0.41
36:5:2882:U:H4'	40:l3:263:SER:O	2.20	0.41
36:5:3084:C:O2'	36:5:3332:U:H5''	2.20	0.41
36:5:3123:A:N3	46:l9:40:HIS:HE1	2.18	0.41
36:5:3194:C:O2'	36:5:3195:U:H5'	2.21	0.41
37:7:18:C:P	48:m1:150:ASN:HD22	2.44	0.41
38:8:41:A:O2'	73:o7:59:THR:HG22	2.20	0.41
40:l3:11:HIS:CE1	40:l3:235:THR:HA	2.55	0.41
41:l4:271:LYS:O	41:l4:272:VAL:C	2.64	0.41
42:l5:122:VAL:H	42:l5:248:ARG:HH22	1.67	0.41
42:l5:297:GLN:HG2	87:l5:302:OHX:N4	2.35	0.41
43:l6:56:LYS:HD3	43:l6:58:LEU:HD23	2.02	0.41
47:m0:138:VAL:HG11	47:m0:148:VAL:HG13	2.01	0.41
51:m5:18:VAL:O	51:m5:22:LEU:HD22	2.20	0.41
51:m5:47:LYS:HD2	51:m5:50:ARG:HE	1.86	0.41
52:m6:4:GLU:O	52:m6:5:PRO:C	2.62	0.41
53:m7:111:LYS:HE2	53:m7:153:LYS:O	2.20	0.41
54:m8:115:VAL:O	54:m8:118:GLY:N	2.52	0.41
59:n3:27:ASP:HA	59:n3:113:ALA:O	2.19	0.41
60:n4:31:PHE:CZ	60:n4:40:PHE:CG	3.09	0.41
66:o0:9:SER:HG	66:o0:12:GLN:HB3	1.85	0.41
69:o3:37:THR:HB	69:o3:39:GLN:OE1	2.20	0.41
73:o7:10:LYS:HZ2	73:o7:10:LYS:HG2	1.59	0.41
74:o8:10:GLN:HA	74:o8:13:GLU:CD	2.46	0.41
77:q1:1:MET:HE2	77:q1:6:ARG:N	2.36	0.41
78:q2:23:HIS:HA	78:q2:73:GLU:O	2.20	0.41
78:q2:38:GLN:HE21	78:q2:41:ARG:HB2	1.84	0.41
84:p0:3:GLY:O	84:p0:6:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:109:G:H1	1:2:305:C:H42	1.69	0.41
1:2:887:A:H1'	16:C4:122:PRO:HB3	2.03	0.41
1:2:1143:A:O2'	1:2:1144:U:H5'	2.20	0.41
1:2:1460:A:C2	17:C5:128:HIS:CD2	3.09	0.41
1:2:1514:U:H1'	5:S3:6:SER:HA	2.02	0.41
1:2:1629:G:H2'	1:2:1630:U:O4'	2.21	0.41
2:S0:124:THR:HG22	2:S0:174:TRP:NE1	2.34	0.41
5:S3:68:GLU:OE2	12:C0:67:THR:HG23	2.21	0.41
6:S4:181:VAL:HG21	6:S4:195:ILE:HG13	2.02	0.41
7:S5:222:LYS:HG3	7:S5:225:ARG:NH1	2.35	0.41
8:S6:189:HIS:O	8:S6:189:HIS:ND1	2.43	0.41
25:D3:19:ARG:O	25:D3:23:ARG:HG2	2.21	0.41
30:D8:13:ILE:HD12	30:D8:29:ARG:HG2	2.03	0.41
33:E1:106:TYR:CE2	33:E1:116:LYS:HG2	2.55	0.41
34:SR:319:ASN:OD1	34:SR:319:ASN:N	2.53	0.41
36:1:198:A:C6	36:1:219:A:C5	3.09	0.41
36:1:394:G:N2	36:1:396:A:H3'	2.34	0.41
36:1:415:G:C2	38:4:9:A:C2	3.08	0.41
36:1:729:C:O2'	54:M8:79:LYS:HE2	2.21	0.41
36:1:1310:G:N7	87:1:3566:OHX:N5	2.69	0.41
36:1:2185:G:C6	36:1:2186:U:C4	3.09	0.41
36:1:2186:U:H2'	36:1:2187:G:O4'	2.20	0.41
36:1:2344:U:H2'	36:1:2345:A:C8	2.56	0.41
36:1:2907:G:OP1	87:1:3700:OHX:N4	2.53	0.41
36:1:3030:G:H2'	36:1:3031:G:H5'	2.02	0.41
36:1:3217:C:O2	36:1:3217:C:H2'	2.21	0.41
36:1:3332:U:H2'	36:1:3333:G:O4'	2.21	0.41
37:3:16:U:O2'	37:3:17:A:H5'	2.21	0.41
38:4:63:G:O3'	71:O5:49:LYS:NZ	2.54	0.41
39:L2:92:LYS:O	39:L2:94:ALA:N	2.53	0.41
41:L4:179:LEU:HD22	41:L4:183:LYS:HG2	2.03	0.41
41:L4:325:LEU:O	44:L7:41:ARG:NH2	2.53	0.41
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.20	0.41
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	2.01	0.41
57:N1:83:ARG:HA	65:N9:22:LYS:HG2	2.01	0.41
59:N3:17:LEU:O	59:N3:51:ALA:HA	2.20	0.41
60:N4:32:GLN:OE1	60:N4:33:ASN:ND2	2.53	0.41
68:O2:75:LEU:HA	68:O2:75:LEU:HD23	1.75	0.41
72:O6:8:ALA:C	72:O6:13:LYS:HG3	2.46	0.41
75:O9:5:LYS:CE	75:O9:13:MET:HE1	2.51	0.41
80:6:14:C:P	4:s2:206:THR:HG21	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:109:G:H2'	80:6:110:U:O4'	2.21	0.41
80:6:210:A:H2'	80:6:211:U:C6	2.55	0.41
80:6:390:G:H5''	80:6:390:G:N3	2.35	0.41
80:6:606:A:C5	80:6:608:U:C4	3.08	0.41
80:6:711:U:H5'	80:6:712:G:OP2	2.21	0.41
80:6:946:U:H2'	80:6:947:U:C6	2.55	0.41
80:6:1092:A:C4	80:6:1094:G:C8	3.09	0.41
80:6:1229:G:N1	14:c2:47:GLU:HG2	2.36	0.41
80:6:1317:C:H2'	80:6:1318:G:O4'	2.21	0.41
80:6:1655:A:H8	80:6:1655:A:O5'	2.03	0.41
4:s2:54:GLU:O	4:s2:58:LEU:N	2.30	0.41
5:s3:102:ALA:HB1	5:s3:173:ARG:HG3	2.02	0.41
6:s4:163:ASP:HB3	6:s4:167:GLY:O	2.20	0.41
9:s7:61:PHE:HA	9:s7:93:LEU:O	2.21	0.41
10:s8:79:ALA:N	10:s8:103:GLN:O	2.44	0.41
11:s9:93:LEU:HA	11:s9:93:LEU:HD12	1.97	0.41
21:c9:40:SER:CB	21:c9:96:ALA:HA	2.45	0.41
23:d1:60:ARG:HA	23:d1:65:SER:HB2	2.02	0.41
25:d3:17:VAL:HG23	25:d3:20:ARG:NH2	2.35	0.41
25:d3:44:GLY:H	25:d3:78:LYS:HE3	1.86	0.41
34:sR:296:ALA:C	34:sR:298:GLY:H	2.28	0.41
36:5:92:G:OP1	78:q2:46:LYS:HE2	2.20	0.41
36:5:304:G:C5	51:m5:178:HIS:HD2	2.39	0.41
36:5:547:G:C4	36:5:548:G:H1'	2.56	0.41
36:5:621:A:H2'	36:5:622:A:C8	2.56	0.41
36:5:676:G:H3'	54:m8:107:THR:HG21	2.02	0.41
36:5:860:G:C6	39:l2:181:LYS:HB2	2.56	0.41
36:5:978:G:N2	36:5:1104:G:C5	2.89	0.41
36:5:1035:G:H5'	36:5:1036:A:OP2	2.21	0.41
36:5:1299:U:C4	36:5:1300:G:C5	3.09	0.41
36:5:1338:C:H2'	36:5:1339:C:C6	2.56	0.41
36:5:1350:A:N6	36:5:1351:U:N3	2.68	0.41
36:5:1596:C:H1'	36:5:1697:A:H1'	2.02	0.41
36:5:1677:G:C5	36:5:1678:G:N7	2.88	0.41
36:5:1801:U:H2'	36:5:1802:C:C6	2.55	0.41
36:5:1838:G:H4'	36:5:1839:A:N3	2.36	0.41
36:5:2103:U:C2	36:5:2104:A:N7	2.89	0.41
36:5:2146:C:OP1	39:l2:200:ARG:NH1	2.53	0.41
36:5:2152:A:H1'	36:5:2243:A:N3	2.35	0.41
36:5:2168:A:H8	36:5:2168:A:O5'	2.04	0.41
36:5:2186:U:O3'	36:5:2315:G:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2609:A:C2	36:5:2610:G:C5	3.09	0.41
36:5:2699:G:OP2	87:5:3432:OHX:N2	2.54	0.41
36:5:2943:G:N7	36:5:2944:U:C4	2.89	0.41
36:5:3053:G:O6	87:5:3688:OHX:N6	2.54	0.41
36:5:3163:A:C6	36:5:3164:C:N4	2.88	0.41
36:5:3269:U:C5	43:16:130:ILE:HG23	2.56	0.41
36:5:3389:U:H6	36:5:3389:U:OP2	2.03	0.41
37:7:12:U:O3'	37:7:111:U:H1'	2.21	0.41
37:7:33:U:H2'	37:7:34:C:O4'	2.21	0.41
38:8:68:G:O6	87:8:213:OHX:N6	2.53	0.41
38:8:145:U:H2'	38:8:146:U:O4'	2.20	0.41
39:12:237:LEU:H	39:12:237:LEU:HG	1.65	0.41
41:14:138:ARG:NH2	41:14:240:PRO:HG2	2.35	0.41
45:18:105:LYS:HG3	45:18:109:LEU:HD23	2.03	0.41
45:18:112:GLU:O	45:18:115:ALA:N	2.52	0.41
48:m1:15:GLU:HB3	48:m1:130:VAL:HG22	2.02	0.41
49:m3:4:SER:O	49:m3:5:LYS:HB2	2.19	0.41
54:m8:51:ALA:HA	54:m8:54:LEU:HG	2.01	0.41
54:m8:153:PHE:N	54:m8:153:PHE:CD2	2.87	0.41
55:m9:17:VAL:HG13	55:m9:18:GLY:O	2.20	0.41
55:m9:139:VAL:O	55:m9:140:GLU:C	2.62	0.41
59:n3:54:LEU:HA	59:n3:78:VAL:HG12	2.03	0.41
66:o0:33:SER:OG	66:o0:39:SER:HB2	2.20	0.41
66:o0:61:MET:SD	66:o0:61:MET:C	3.04	0.41
71:o5:26:LYS:HA	71:o5:29:ALA:HB3	2.02	0.41
72:o6:68:ARG:O	72:o6:72:VAL:HG23	2.21	0.41
79:q3:70:THR:CG2	79:q3:72:SER:H	2.33	0.41
1:2:591:A:C6	1:2:592:A:C6	3.09	0.41
1:2:610:G:H2'	1:2:614:C:C5	2.55	0.41
1:2:762:A:P	11:S9:79:ARG:HH22	2.43	0.41
1:2:814:A:C8	1:2:816:G:C8	3.09	0.41
1:2:998:A:N1	1:2:1006:C:N4	2.57	0.41
1:2:1260:U:H2'	1:2:1261:G:H8	1.85	0.41
1:2:1317:C:H2'	1:2:1318:G:O4'	2.21	0.41
1:2:1503:A:H2'	1:2:1504:G:O4'	2.20	0.41
1:2:1724:U:H4'	60:N4:47:ARG:NH2	2.36	0.41
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.86	0.41
3:S1:119:THR:HB	3:S1:143:THR:CG2	2.51	0.41
6:S4:34:GLY:HA3	6:S4:35:PRO:HD3	1.82	0.41
6:S4:79:ASP:O	6:S4:82:TYR:N	2.42	0.41
8:S6:31:ARG:HG3	8:S6:34:GLN:NE2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:114:VAL:HG12	8:S6:115:LYS:HD3	2.03	0.41
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	2.02	0.41
13:C1:55:ASP:CG	13:C1:110:HIS:HE1	2.28	0.41
15:C3:151:ASN:O	87:C3:201:OHX:N3	2.54	0.41
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	2.02	0.41
18:C6:99:GLU:OE2	34:SR:60:SER:OG	2.31	0.41
22:D0:49:ASN:C	22:D0:50:LEU:HD12	2.45	0.41
25:D3:57:LEU:HD23	25:D3:57:LEU:HA	1.89	0.41
28:D6:60:PRO:C	28:D6:62:TYR:N	2.78	0.41
36:1:38:U:H2'	36:1:39:A:O4'	2.21	0.41
36:1:126:U:H2'	36:1:127:G:O4'	2.20	0.41
36:1:355:A:C2	36:1:365:A:C4	3.09	0.41
36:1:494:G:OP1	36:1:494:G:H3'	2.20	0.41
36:1:531:G:C6	87:1:3681:OHX:N5	2.89	0.41
36:1:1397:C:H2'	36:1:1398:U:H6	1.84	0.41
36:1:1460:A:H2'	36:1:1461:A:H8	1.80	0.41
36:1:1480:G:H4'	36:1:1481:A:OP1	2.21	0.41
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.53	0.41
36:1:1783:U:C2	36:1:1784:G:C8	3.09	0.41
36:1:2167:A:C6	36:1:2168:A:C6	3.09	0.41
36:1:2228:A:H2'	36:1:2229:A:H8	1.84	0.41
36:1:2238:G:C2	36:1:2239:G:C8	3.09	0.41
36:1:2660:G:N3	36:1:2744:U:O2'	2.51	0.41
36:1:2908:G:N7	87:1:3410:OHX:N4	2.69	0.41
36:1:3011:A:C5	40:L3:13:HIS:CD2	3.09	0.41
36:1:3276:G:H1	69:O3:60:ARG:NH1	2.19	0.41
36:1:3326:G:H2'	36:1:3327:G:H8	1.86	0.41
38:4:59:A:OP2	38:4:59:A:H3'	2.20	0.41
38:4:108:C:H2'	38:4:109:A:O4'	2.20	0.41
41:L4:299:ILE:HG23	54:M8:39:ARG:HB3	2.02	0.41
42:L5:114:GLY:C	42:L5:116:ASP:N	2.76	0.41
42:L5:278:SER:OG	42:L5:281:GLU:HG3	2.21	0.41
44:L7:25:GLN:O	44:L7:26:VAL:C	2.64	0.41
44:L7:173:LEU:HD11	44:L7:201:PHE:HB2	2.02	0.41
45:L8:75:ILE:C	45:L8:77:GLN:N	2.75	0.41
47:M0:221:ALA:N	87:M0:304:OHX:N4	2.68	0.41
48:M1:33:ALA:O	48:M1:36:VAL:HB	2.20	0.41
52:M6:149:TYR:CD2	52:M6:149:TYR:N	2.89	0.41
56:N0:77:VAL:HG11	56:N0:106:LEU:HD12	2.02	0.41
58:N2:79:LEU:O	58:N2:82:LYS:HB3	2.20	0.41
61:N5:132:ALA:O	61:N5:133:LEU:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.21	0.41
70:O4:24:LYS:HA	70:O4:29:ILE:O	2.21	0.41
72:O6:74:LYS:HA	72:O6:83:ALA:HB2	2.02	0.41
73:O7:21:ARG:NH1	73:O7:44:THR:HA	2.35	0.41
80:6:119:A:H2'	80:6:120:U:O4'	2.20	0.41
80:6:829:A:OP1	80:6:829:A:H4'	2.21	0.41
80:6:926:A:H2	16:c4:125:SER:HB2	1.86	0.41
80:6:1142:A:OP2	87:6:2028:OHX:N1	2.53	0.41
80:6:1516:A:O2'	80:6:1517:U:H5'	2.21	0.41
80:6:1643:U:C6	80:6:1644:C:C5	3.09	0.41
80:6:1670:G:O6	87:6:2009:OHX:N4	2.53	0.41
80:6:1699:G:N2	80:6:1702:A:H5''	2.34	0.41
4:s2:203:LYS:O	4:s2:206:THR:CG2	2.69	0.41
5:s3:12:VAL:O	5:s3:16:VAL:HG23	2.20	0.41
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.85	0.41
7:s5:147:THR:OG1	7:s5:148:ARG:N	2.53	0.41
7:s5:213:LYS:HD3	7:s5:213:LYS:HA	1.53	0.41
7:s5:222:LYS:HA	7:s5:225:ARG:NH1	2.30	0.41
81:c0:38:LYS:O	81:c0:41:TYR:HB2	2.21	0.41
13:c1:128:CYS:SG	13:c1:138:ASN:HB2	2.61	0.41
15:c3:132:VAL:O	15:c3:133:ALA:HB3	2.21	0.41
16:c4:87:GLY:O	16:c4:90:ARG:HB2	2.20	0.41
17:c5:124:THR:O	17:c5:124:THR:OG1	2.32	0.41
22:d0:30:LYS:H	22:d0:30:LYS:HG2	1.67	0.41
36:5:267:G:H4'	51:m5:50:ARG:HH11	1.85	0.41
36:5:271:C:P	87:5:3576:OHX:N4	2.94	0.41
36:5:289:A:H4'	51:m5:96:ARG:O	2.20	0.41
36:5:336:A:OP1	62:n6:10:SER:N	2.39	0.41
36:5:915:A:H8	36:5:2136:C:O2'	2.04	0.41
36:5:1162:U:H4'	68:o2:57:TYR:CD1	2.56	0.41
36:5:2166:A:C6	36:5:2167:A:C6	3.08	0.41
36:5:2667:A:H5'	36:5:2667:A:C8	2.55	0.41
36:5:2667:A:H2'	36:5:2668:U:O4'	2.20	0.41
36:5:2805:G:O2'	36:5:2967:A:N1	2.48	0.41
36:5:2864:A:O5'	36:5:2864:A:H8	2.04	0.41
36:5:3110:C:C4	36:5:3111:U:C4	3.09	0.41
38:8:103:G:C6	38:8:105:A:C6	3.09	0.41
87:8:203:OHX:N3	73:o7:85:LYS:HE3	2.35	0.41
39:l2:20:THR:H	39:l2:20:THR:HG23	1.46	0.41
39:l2:64:ARG:HH22	45:l8:38:GLN:HA	1.86	0.41
40:l3:113:GLU:OE2	40:l3:167:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:8:VAL:HG12	41:l4:9:HIS:H	1.85	0.41
41:l4:10:SER:O	41:l4:12:THR:N	2.54	0.41
41:l4:202:ARG:NE	41:l4:202:ARG:HA	2.35	0.41
42:l5:281:GLU:HG3	42:l5:281:GLU:H	1.54	0.41
44:l7:100:ARG:HH11	44:l7:100:ARG:HD3	1.72	0.41
46:l9:4:ILE:HG23	56:n0:142:GLN:OE1	2.21	0.41
46:l9:92:TYR:CG	46:l9:142:ASP:HB3	2.56	0.41
47:m0:178:ARG:N	47:m0:179:PRO:HD2	2.36	0.41
48:m1:109:HIS:O	48:m1:112:LEU:HD23	2.21	0.41
52:m6:69:GLY:O	52:m6:70:PRO:C	2.63	0.41
52:m6:157:GLU:HB3	52:m6:161:LYS:HE3	2.03	0.41
55:m9:42:ARG:H	55:m9:42:ARG:HG3	1.54	0.41
69:o3:49:ILE:HD13	69:o3:49:ILE:HG21	1.81	0.41
71:o5:49:LYS:HE3	71:o5:49:LYS:HB3	1.79	0.41
84:p0:53:MET:HE3	84:p0:53:MET:HB3	1.90	0.41
1:2:143:G:C2'	1:2:144:U:H5''	2.51	0.41
1:2:290:G:O6	87:2:2047:OHX:N2	2.54	0.41
1:2:292:U:C4	1:2:293:U:C4	3.08	0.41
1:2:300:A:H2'	1:2:301:A:C8	2.55	0.41
1:2:331:A:H4'	10:S8:31:ARG:O	2.20	0.41
1:2:338:C:OP2	13:C1:133:LYS:HD2	2.21	0.41
1:2:354:C:O2'	1:2:355:G:H5'	2.20	0.41
1:2:374:U:C4	1:2:375:U:C4	3.09	0.41
1:2:549:G:C2	1:2:550:A:N7	2.89	0.41
1:2:993:A:C5	1:2:1012:U:N3	2.88	0.41
1:2:1068:C:H2'	1:2:1069:A:C8	2.55	0.41
1:2:1146:G:C2	1:2:1147:A:C4	3.09	0.41
1:2:1460:A:O4'	35:SM:71:ASN:HB3	2.21	0.41
1:2:1473:U:O2	1:2:1473:U:H2'	2.20	0.41
1:2:1479:A:P	21:C9:57:ARG:HH12	2.43	0.41
1:2:1480:G:H4'	21:C9:11:ALA:CB	2.51	0.41
1:2:1490:C:H1'	1:2:1491:U:O4'	2.20	0.41
1:2:1535:U:O2'	1:2:1536:G:C4	2.72	0.41
1:2:1757:G:C6	1:2:1758:U:C4	3.09	0.41
2:S0:77:SER:HB2	2:S0:124:THR:CG2	2.50	0.41
2:S0:129:ASP:O	2:S0:133:ILE:HD12	2.20	0.41
3:S1:143:THR:HB	3:S1:205:PHE:CE1	2.56	0.41
3:S1:158:SER:O	3:S1:162:ARG:HG3	2.21	0.41
4:S2:121:VAL:HG21	35:SM:116:GLU:HB3	2.03	0.41
4:S2:140:ARG:HD3	4:S2:222:TYR:CZ	2.56	0.41
4:S2:143:TYR:OH	4:S2:150:GLN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:167:PHE:O	5:S3:189:MET:HA	2.21	0.41
6:S4:17:HIS:HB2	6:S4:108:ARG:HA	2.03	0.41
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.21	0.41
7:S5:166:ARG:O	7:S5:170:GLN:HB2	2.20	0.41
8:S6:158:ILE:HG13	60:N4:85:ALA:CB	2.50	0.41
8:S6:173:PRO:HB2	8:S6:174:LYS:H	1.61	0.41
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	2.02	0.41
9:S7:156:SER:O	9:S7:159:VAL:HB	2.21	0.41
10:S8:42:ARG:O	10:S8:43:ILE:HG13	2.21	0.41
10:S8:117:TYR:CE1	10:S8:150:ALA:HB2	2.55	0.41
12:C0:50:THR:HG22	12:C0:55:VAL:HG13	2.02	0.41
12:C0:59:PHE:HE2	12:C0:64:TYR:CZ	2.38	0.41
13:C1:16:GLN:NE2	13:C1:34:TRP:HE3	2.19	0.41
14:C2:60:VAL:O	14:C2:89:ILE:HG22	2.20	0.41
14:C2:73:LYS:NZ	33:E1:108:VAL:HB	2.36	0.41
16:C4:108:SER:OG	16:C4:109:GLY:N	2.54	0.41
17:C5:57:MET:CE	17:C5:89:MET:HE3	2.51	0.41
17:C5:80:MET:C	17:C5:82:ASN:N	2.78	0.41
19:C7:66:VAL:HG12	19:C7:69:ILE:HD11	2.02	0.41
21:C9:28:LEU:O	21:C9:107:ALA:HB1	2.21	0.41
21:C9:94:ILE:HD12	21:C9:94:ILE:HA	1.79	0.41
22:D0:117:VAL:HG22	22:D0:118:VAL:H	1.86	0.41
23:D1:9:VAL:O	23:D1:10:GLU:HB3	2.20	0.41
25:D3:57:LEU:HB3	25:D3:59:ILE:CD1	2.51	0.41
28:D6:39:MET:O	28:D6:41:ILE:HD13	2.21	0.41
33:E1:89:LYS:O	33:E1:90:LYS:HB3	2.20	0.41
33:E1:127:GLY:C	33:E1:129:GLY:H	2.29	0.41
34:SR:22:SER:O	34:SR:23:LEU:HD23	2.21	0.41
34:SR:295:SER:HB2	34:SR:300:THR:HB	2.02	0.41
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.85	0.41
36:1:268:A:C4	51:M5:12:ARG:HG2	2.56	0.41
36:1:289:A:H2'	36:1:290:G:H8	1.85	0.41
36:1:551:A:C4	36:1:552:G:C8	3.09	0.41
36:1:582:G:O6	87:1:3730:OHX:N2	2.54	0.41
36:1:884:A:OP1	73:O7:5:THR:HG23	2.20	0.41
36:1:968:G:H2'	36:1:969:C:C6	2.56	0.41
36:1:1051:U:H4'	57:N1:19:PHE:CE2	2.56	0.41
36:1:1148:G:N7	87:1:3724:OHX:N4	2.69	0.41
36:1:1204:A:H2	36:1:2834:G:N3	2.18	0.41
36:1:1231:A:H5''	36:1:1232:C:C5'	2.51	0.41
36:1:1296:C:C4	36:1:1297:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1481:A:H1'	36:1:1483:G:C5	2.56	0.41
36:1:1525:G:O4'	36:1:1829:G:H2'	2.21	0.41
36:1:1533:U:H2'	36:1:1534:A:H5'	2.02	0.41
36:1:1537:A:H2'	36:1:1538:G:O4'	2.21	0.41
36:1:1559:A:H4'	36:1:1560:G:OP2	2.20	0.41
36:1:1621:A:H2'	36:1:1622:U:C6	2.56	0.41
36:1:1667:A:C6	36:1:1668:G:C6	3.09	0.41
36:1:1778:G:N7	87:1:3680:OHX:N4	2.68	0.41
36:1:2225:U:H6	36:1:2225:U:O5'	2.04	0.41
36:1:2386:A:C8	36:1:2994:A:C6	3.09	0.41
36:1:2571:U:O2'	36:1:2572:C:O2	2.37	0.41
36:1:2622:C:C5	36:1:2623:G:C8	3.08	0.41
36:1:2646:C:H5''	47:M0:119:TRP:CG	2.56	0.41
36:1:2699:G:OP2	87:1:3444:OHX:N1	2.54	0.41
36:1:2749:G:O6	87:1:3658:OHX:N2	2.54	0.41
36:1:2764:C:O5'	36:1:2764:C:H6	2.04	0.41
36:1:2938:G:H5''	36:1:2938:G:H8	1.85	0.41
36:1:2988:C:P	52:M6:68:ARG:NH1	2.94	0.41
36:1:2998:U:H2'	36:1:2999:U:O4'	2.21	0.41
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.55	0.41
36:1:3355:U:H3'	36:1:3356:G:C5'	2.51	0.41
37:3:67:G:H2'	37:3:68:C:O4'	2.21	0.41
38:4:133:G:C5	38:4:134:G:N7	2.89	0.41
39:L2:186:PHE:HD1	39:L2:196:TRP:HZ3	1.69	0.41
40:L3:14:LEU:O	40:L3:17:LEU:HB2	2.21	0.41
40:L3:98:GLY:HA2	52:M6:149:TYR:HE1	1.86	0.41
40:L3:167:ARG:HA	87:L3:402:OHX:N4	2.36	0.41
40:L3:205:VAL:CG1	40:L3:322:ILE:HD11	2.51	0.41
40:L3:247:ARG:HH11	40:L3:247:ARG:HD3	1.74	0.41
41:L4:33:ASP:O	41:L4:37:THR:N	2.40	0.41
41:L4:53:SER:O	41:L4:56:ALA:HB2	2.20	0.41
41:L4:274:TYR:CD1	41:L4:275:THR:N	2.89	0.41
42:L5:172:TYR:CE2	42:L5:174:PRO:HB3	2.56	0.41
42:L5:201:GLY:C	42:L5:203:HIS:H	2.28	0.41
44:L7:93:ASN:OD1	44:L7:93:ASN:N	2.49	0.41
47:M0:47:PRO:HD2	47:M0:140:THR:O	2.21	0.41
47:M0:60:LEU:HD12	47:M0:129:VAL:HG21	2.02	0.41
48:M1:8:PRO:CG	48:M1:9:MET:H	2.34	0.41
51:M5:33:LYS:HD2	51:M5:37:HIS:NE2	2.36	0.41
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.20	0.41
52:M6:167:TYR:OH	52:M6:171:LYS:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:51:VAL:C	53:M7:53:ASP:N	2.77	0.41
54:M8:35:PHE:O	54:M8:36:LEU:C	2.64	0.41
54:M8:86:THR:CG2	54:M8:105:ARG:HD2	2.49	0.41
55:M9:123:LEU:HA	55:M9:123:LEU:HD23	1.80	0.41
61:N5:67:ILE:CD1	61:N5:121:LYS:HG3	2.49	0.41
63:N7:10:VAL:HG13	63:N7:23:VAL:O	2.19	0.41
63:N7:16:GLY:O	63:N7:19:ALA:N	2.47	0.41
64:N8:73:LEU:HD21	64:N8:78:LEU:HA	2.03	0.41
69:O3:102:LEU:HD23	69:O3:102:LEU:HA	1.77	0.41
70:O4:42:PRO:O	70:O4:50:ALA:HA	2.21	0.41
70:O4:100:ILE:HA	70:O4:103:LYS:HG2	2.02	0.41
72:O6:63:ASN:O	72:O6:64:SER:OG	2.35	0.41
74:O8:12:LEU:HD22	74:O8:12:LEU:HA	1.95	0.41
74:O8:69:LEU:HD13	74:O8:69:LEU:HA	1.71	0.41
76:Q0:93:LYS:HA	76:Q0:93:LYS:HD2	1.83	0.41
79:Q3:29:LEU:HD22	79:Q3:69:TYR:CD2	2.56	0.41
80:6:47:A:C2	80:6:100:A:N3	2.89	0.41
80:6:121:U:H1'	6:s4:33:ALA:HB3	2.02	0.41
80:6:175:G:N2	80:6:266:A:C4	2.89	0.41
80:6:271:A:N3	80:6:285:G:C2	2.89	0.41
80:6:350:U:C5'	80:6:352:A:H5'	2.50	0.41
80:6:388:G:C2	80:6:389:G:C8	3.09	0.41
80:6:444:C:OP2	26:d4:108:ARG:NH2	2.53	0.41
80:6:507:U:H2'	80:6:508:U:O4'	2.21	0.41
80:6:595:G:H2'	80:6:596:C:C6	2.55	0.41
80:6:696:C:C3'	80:6:697:C:H5'	2.50	0.41
80:6:815:G:H5'	80:6:815:G:C8	2.55	0.41
80:6:1017:U:H2'	80:6:1018:U:C6	2.56	0.41
80:6:1218:G:O6	80:6:1444:A:H2'	2.21	0.41
80:6:1462:G:O2'	82:sM:81:THR:HG22	2.20	0.41
80:6:1482:C:OP2	80:6:1521:G:C2	2.74	0.41
80:6:1608:U:OP1	18:c6:14:LYS:HB3	2.21	0.41
2:s0:87:LEU:HD13	2:s0:87:LEU:HA	1.81	0.41
2:s0:88:LYS:NZ	19:c7:82:ASP:O	2.49	0.41
3:s1:128:LYS:HE3	3:s1:132:ASP:OD1	2.21	0.41
4:s2:78:ASP:CB	4:s2:104:VAL:HG12	2.51	0.41
4:s2:170:ILE:HG12	4:s2:197:TYR:O	2.20	0.41
5:s3:95:GLY:HA3	5:s3:129:SER:OG	2.21	0.41
5:s3:141:LYS:NZ	5:s3:179:GLN:OE1	2.41	0.41
5:s3:162:GLN:O	5:s3:165:ASN:N	2.46	0.41
6:s4:85:GLY:O	6:s4:101:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:123:VAL:HG12	7:s5:124:LEU:HD12	2.03	0.41
9:s7:173:TYR:CD1	9:s7:181:ILE:HD11	2.55	0.41
10:s8:62:THR:HG22	10:s8:77:ARG:HA	2.02	0.41
11:s9:101:VAL:HG23	11:s9:102:GLU:OE2	2.21	0.41
11:s9:134:ILE:HD12	11:s9:134:ILE:N	2.36	0.41
13:c1:67:ARG:N	13:c1:67:ARG:HD3	2.35	0.41
17:c5:25:LEU:HA	17:c5:25:LEU:HD23	1.78	0.41
17:c5:72:LYS:H	17:c5:72:LYS:HG2	1.58	0.41
20:c8:143:ARG:O	20:c8:144:ARG:HB2	2.21	0.41
22:d0:33:GLN:OE1	22:d0:33:GLN:N	2.53	0.41
22:d0:68:ARG:HG2	22:d0:79:TRP:CZ3	2.56	0.41
23:d1:1:MET:HB3	23:d1:10:GLU:HB3	2.02	0.41
23:d1:3:ASN:OD1	23:d1:4:ASP:N	2.54	0.41
24:d2:56:HIS:C	24:d2:57:ARG:HG3	2.46	0.41
31:d9:22:ARG:HG2	31:d9:37:ASN:O	2.21	0.41
34:sR:124:SER:OG	34:sR:134:TRP:NE1	2.43	0.41
34:sR:232:TYR:N	34:sR:232:TYR:HD2	2.19	0.41
36:5:305:U:O2'	36:5:306:A:N7	2.49	0.41
36:5:336:A:O2'	36:5:337:G:H5'	2.21	0.41
36:5:594:U:H4'	36:5:594:U:OP1	2.21	0.41
36:5:769:G:OP1	49:m3:175:SER:OG	2.34	0.41
36:5:892:U:O2'	36:5:893:C:H5'	2.21	0.41
36:5:979:U:O2'	36:5:980:A:C6	2.74	0.41
36:5:1077:U:H2'	36:5:1078:U:O4'	2.21	0.41
36:5:1145:G:O6	36:5:1158:A:H2	2.04	0.41
36:5:1171:G:H2'	36:5:1172:G:O4'	2.21	0.41
36:5:1294:A:N3	36:5:1295:G:C8	2.89	0.41
36:5:1302:A:C2	36:5:2887:A:C4	3.09	0.41
36:5:1367:G:O5'	36:5:1367:G:H8	2.03	0.41
36:5:1456:A:N6	67:o1:64:VAL:HG22	2.35	0.41
36:5:1465:A:N6	36:5:1466:G:C2	2.88	0.41
36:5:1811:G:H2'	36:5:1812:G:O4'	2.21	0.41
36:5:1826:C:H2'	36:5:1827:C:C6	2.55	0.41
36:5:1867:A:H2'	36:5:1868:G:C8	2.56	0.41
36:5:1895:A:HO2'	36:5:3053:G:H4'	1.84	0.41
36:5:1940:G:OP1	55:m9:80:LYS:HE2	2.21	0.41
36:5:2102:U:H2'	36:5:2103:U:H6	1.85	0.41
36:5:2177:G:OP1	39:l2:54:ARG:NH1	2.53	0.41
36:5:2287:C:C2	36:5:2298:U:O4'	2.74	0.41
36:5:2360:C:H5''	36:5:2361:A:P	2.61	0.41
36:5:2398:A:C2	36:5:2399:A:N9	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2433:U:H1'	51:m5:125:SER:CB	2.48	0.41
36:5:2691:A:H2'	36:5:2692:A:C8	2.56	0.41
36:5:2702:A:H5'	36:5:2704:A:O4'	2.20	0.41
36:5:2736:A:O2'	57:n1:68:THR:HG21	2.20	0.41
36:5:2909:U:C5	36:5:2910:A:C8	3.08	0.41
36:5:2991:A:C2	53:m7:69:ARG:NH2	2.89	0.41
36:5:3045:G:H4'	40:l3:16:PHE:CD1	2.55	0.41
36:5:3227:A:H2'	36:5:3228:C:H5'	2.03	0.41
36:5:3356:G:C5	36:5:3357:U:C5	3.09	0.41
38:8:85:G:O6	62:n6:114:ASP:OD2	2.39	0.41
38:8:144:G:O2'	38:8:145:U:H5'	2.21	0.41
39:l2:55:GLY:O	39:l2:56:ALA:HB3	2.21	0.41
40:l3:58:ARG:HH22	40:l3:352:GLU:CD	2.29	0.41
40:l3:283:TYR:CE1	40:l3:354:VAL:HG11	2.55	0.41
40:l3:293:ASN:HB3	40:l3:321:PHE:HE2	1.86	0.41
40:l3:311:PHE:HE2	40:l3:317:ILE:HG13	1.85	0.41
41:l4:91:GLY:O	41:l4:94:CYS:HB2	2.21	0.41
41:l4:180:LYS:O	41:l4:181:VAL:C	2.64	0.41
41:l4:271:LYS:HB2	41:l4:274:TYR:CB	2.50	0.41
41:l4:354:VAL:O	41:l4:358:THR:HG23	2.21	0.41
42:l5:64:ILE:HD12	42:l5:144:VAL:HG21	2.02	0.41
43:l6:68:PRO:O	43:l6:71:VAL:HB	2.20	0.41
43:l6:98:VAL:HA	43:l6:101:PHE:CD2	2.56	0.41
44:l7:174:GLY:HA2	44:l7:177:GLY:O	2.21	0.41
44:l7:222:HIS:ND1	44:l7:223:PHE:N	2.69	0.41
45:l8:57:ARG:O	45:l8:61:GLN:HG3	2.21	0.41
45:l8:81:THR:OG1	45:l8:181:LYS:HB2	2.20	0.41
45:l8:169:LEU:HD22	45:l8:169:LEU:O	2.20	0.41
46:l9:47:LYS:HB2	50:m4:7:VAL:HB	2.01	0.41
46:l9:168:ARG:HA	46:l9:168:ARG:HD3	1.84	0.41
47:m0:85:PHE:CB	47:m0:140:THR:HG22	2.51	0.41
47:m0:203:LYS:O	47:m0:204:GLY:O	2.39	0.41
48:m1:34:SER:O	48:m1:35:LYS:C	2.62	0.41
50:m4:94:TRP:O	50:m4:100:ALA:HB2	2.21	0.41
51:m5:23:GLN:O	51:m5:24:ARG:C	2.64	0.41
51:m5:32:GLN:H	51:m5:32:GLN:HG2	1.51	0.41
53:m7:41:LEU:HD22	53:m7:45:GLN:CD	2.46	0.41
53:m7:51:VAL:HG21	53:m7:58:ILE:HG12	2.03	0.41
54:m8:127:LEU:HD13	54:m8:127:LEU:O	2.20	0.41
55:m9:20:ARG:HD3	55:m9:21:LYS:HE2	2.03	0.41
59:n3:35:TYR:CD2	59:n3:63:LYS:HE3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:93:LEU:HB2	60:n4:20:LEU:HD22	2.01	0.41
60:n4:39:LEU:HD12	60:n4:44:LYS:HG3	2.02	0.41
63:n7:87:LEU:HD13	63:n7:127:ASN:CG	2.46	0.41
63:n7:104:PRO:O	63:n7:108:GLU:HG3	2.21	0.41
64:n8:7:LYS:HA	64:n8:7:LYS:HD3	1.87	0.41
64:n8:47:LYS:HE3	64:n8:48:TYR:CE2	2.55	0.41
64:n8:118:ILE:H	64:n8:118:ILE:HG12	1.70	0.41
67:o1:50:ARG:CZ	67:o1:90:PHE:CZ	3.04	0.41
70:o4:85:VAL:HA	70:o4:88:ARG:CB	2.50	0.41
71:o5:98:SER:O	71:o5:99:GLN:C	2.63	0.41
73:o7:51:ALA:O	73:o7:55:ARG:HB3	2.21	0.41
73:o7:64:MET:O	73:o7:68:LYS:HD2	2.20	0.41
75:o9:4:GLN:HE21	75:o9:4:GLN:HB2	1.49	0.41
79:q3:13:LYS:HD2	79:q3:14:TYR:CZ	2.56	0.41
79:q3:84:ARG:O	79:q3:85:ARG:C	2.64	0.41
1:2:959:U:O2	1:2:959:U:H2'	2.21	0.41
1:2:1497:U:C4	1:2:1511:U:C2	3.09	0.41
1:2:1576:A:C8	1:2:1577:A:C8	3.09	0.41
1:2:1680:G:H1'	1:2:1721:A:N6	2.36	0.41
2:S0:147:THR:HB	2:S0:151:SER:HB2	2.03	0.41
3:S1:188:LEU:O	3:S1:189:ILE:C	2.64	0.41
4:S2:54:GLU:HB3	23:D1:12:TYR:HB2	2.03	0.41
4:S2:58:LEU:HD23	4:S2:58:LEU:HA	1.94	0.41
6:S4:122:LYS:HE3	6:S4:122:LYS:HB2	1.77	0.41
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.21	0.41
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.85	0.41
8:S6:63:MET:HA	8:S6:98:ARG:O	2.21	0.41
9:S7:67:LEU:HA	9:S7:67:LEU:HD23	1.56	0.41
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.54	0.41
10:S8:8:ARG:HD3	10:S8:21:PHE:HD1	1.86	0.41
10:S8:66:SER:HB3	10:S8:73:SER:OG	2.21	0.41
11:S9:134:ILE:HG12	11:S9:135:ALA:N	2.34	0.41
12:C0:76:LEU:N	12:C0:76:LEU:HD13	2.35	0.41
14:C2:40:GLY:HA3	14:C2:125:ASN:HB3	2.03	0.41
14:C2:81:ASP:OD1	14:C2:81:ASP:N	2.53	0.41
15:C3:114:ARG:HG2	15:C3:114:ARG:NH1	2.30	0.41
15:C3:114:ARG:HD3	15:C3:114:ARG:HA	1.76	0.41
17:C5:119:PHE:HE1	20:C8:119:ILE:CG2	2.34	0.41
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.36	0.41
24:D2:105:THR:HG23	24:D2:110:ILE:HG12	2.02	0.41
26:D4:19:ALA:CB	26:D4:81:GLU:HG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:290:G:H1'	51:M5:93:LYS:HD3	2.03	0.41
36:1:408:A:OP1	87:1:3595:OHX:N3	2.54	0.41
36:1:415:G:H2'	36:1:416:A:H8	1.84	0.41
36:1:797:U:O2'	36:1:798:G:H5'	2.21	0.41
36:1:883:A:C5	36:1:921:A:C6	3.08	0.41
36:1:1337:A:C6	36:1:1338:C:C4	3.08	0.41
36:1:1481:A:C5	36:1:1859:A:C8	3.09	0.41
36:1:1754:G:OP1	87:1:3711:OHX:N1	2.54	0.41
36:1:2648:G:C5	36:1:2649:A:N7	2.89	0.41
36:1:2805:G:C2'	36:1:2806:U:H5'	2.51	0.41
36:1:2885:C:N4	36:1:2886:U:O4	2.54	0.41
36:1:2946:A:H5''	36:1:2947:G:H5'	2.03	0.41
36:1:3017:A:OP2	87:1:3526:OHX:N5	2.54	0.41
36:1:3362:A:C2	36:1:3363:U:C2	3.09	0.41
37:3:72:A:C2	37:3:74:C:C6	3.09	0.41
37:3:110:G:OP2	42:L5:279:LYS:HG3	2.21	0.41
40:L3:346:THR:O	40:L3:351:LEU:HD12	2.21	0.41
42:L5:200:PHE:O	42:L5:240:TYR:HD2	2.04	0.41
44:L7:25:GLN:OE1	44:L7:29:GLU:HB2	2.21	0.41
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.85	0.41
47:M0:43:VAL:HG21	47:M0:197:VAL:HG13	2.01	0.41
50:M4:66:THR:O	50:M4:68:LEU:N	2.54	0.41
51:M5:61:ILE:CD1	51:M5:133:ILE:HB	2.51	0.41
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	2.21	0.41
58:N2:54:VAL:HG12	58:N2:67:SER:CB	2.50	0.41
61:N5:133:LEU:O	61:N5:137:ASN:OD1	2.39	0.41
62:N6:90:VAL:C	62:N6:92:GLY:H	2.29	0.41
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.36	0.41
66:O0:87:VAL:HG23	66:O0:89:VAL:H	1.86	0.41
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.53	0.41
72:O6:45:ARG:NH2	72:O6:54:GLU:OE1	2.54	0.41
72:O6:52:PRO:HD3	72:O6:55:ARG:HH22	1.86	0.41
79:Q3:32:GLN:OE1	79:Q3:70:THR:HB	2.20	0.41
80:6:40:A:C4	80:6:469:C:C5	3.09	0.41
80:6:385:A:OP1	10:s8:25:ARG:NH1	2.53	0.41
80:6:905:A:H2'	80:6:906:A:O4'	2.20	0.41
80:6:1026:A:H4'	80:6:1028:C:C5	2.56	0.41
80:6:1142:A:H5''	28:d6:2:PRO:HB3	2.03	0.41
80:6:1279:C:C4	80:6:1280:C:C5	3.08	0.41
80:6:1349:G:N2	80:6:1350:U:O2	2.54	0.41
80:6:1389:C:OP2	19:c7:45:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1435:G:H4'	80:6:1436:A:H5'	2.03	0.41
80:6:1615:C:H4'	80:6:1616:G:OP2	2.21	0.41
80:6:1756[B]:A:H3'	80:6:1757:G:H8	1.85	0.41
3:s1:65:VAL:O	16:c4:34:SER:OG	2.38	0.41
4:s2:169:LEU:CD1	4:s2:218:ILE:HG23	2.51	0.41
5:s3:11:LEU:HD23	5:s3:11:LEU:HA	1.77	0.41
6:s4:109:PHE:HD1	6:s4:109:PHE:HA	1.76	0.41
10:s8:63:GLY:HA3	10:s8:179:CYS:O	2.20	0.41
81:c0:14:TYR:CE1	81:c0:18:GLU:HG3	2.55	0.41
13:c1:54:ILE:HD12	13:c1:54:ILE:HG23	1.85	0.41
16:c4:62:LEU:HA	16:c4:65:GLN:HG3	2.03	0.41
18:c6:105:LEU:O	18:c6:108:ALA:N	2.52	0.41
25:d3:6:PRO:HG3	25:d3:14:LYS:HG2	2.02	0.41
26:d4:60:PHE:CD1	26:d4:71:GLY:HA3	2.56	0.41
28:d6:61:GLU:O	28:d6:62:TYR:HB3	2.20	0.41
32:e0:39:LEU:HD12	32:e0:39:LEU:HA	1.80	0.41
34:sR:19:TRP:C	34:sR:37:SER:HG	2.27	0.41
34:sR:161:LYS:HD2	34:sR:161:LYS:HA	1.89	0.41
36:5:90:C:OP1	64:n8:59:ARG:NH1	2.54	0.41
36:5:118:U:C5	36:5:119:U:C4	3.09	0.41
36:5:222:A:C5	36:5:223:U:C5	3.09	0.41
36:5:582:G:C2'	36:5:583:G:H5'	2.51	0.41
36:5:671:U:O2'	54:m8:20:LYS:HD3	2.21	0.41
36:5:869:G:H2'	36:5:870:G:O4'	2.20	0.41
36:5:1289:G:H2'	36:5:1290:A:H8	1.86	0.41
36:5:1455:U:C6	36:5:3078:U:C5	3.09	0.41
36:5:1621:A:H2'	36:5:1622:U:C6	2.56	0.41
36:5:1645:U:H2'	36:5:1646:G:H5'	2.01	0.41
36:5:1760:A:C6	36:5:1766:G:C6	3.09	0.41
36:5:3027:A:C6	36:5:3028:G:C5	3.09	0.41
36:5:3041:U:C4	36:5:3042:U:C4	3.09	0.41
36:5:3269:U:H3'	36:5:3269:U:P	2.61	0.41
37:7:62:U:H4'	42:l5:285:ARG:HH12	1.86	0.41
38:8:6:U:O2'	38:8:7:U:H5'	2.21	0.41
38:8:15:G:C6	38:8:16:G:N1	2.89	0.41
38:8:27:U:H2'	38:8:28:C:H6	1.86	0.41
38:8:132:G:C6	38:8:133:G:N7	2.89	0.41
38:8:155:A:OP1	45:l8:181:LYS:HD2	2.21	0.41
41:l4:222:VAL:HA	41:l4:223:PRO:HD3	1.88	0.41
49:m3:46:ILE:HG23	49:m3:46:ILE:HD12	1.92	0.41
51:m5:140:LYS:HB3	51:m5:144:ARG:CZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:29:THR:HG22	53:m7:87:SER:CB	2.51	0.41
54:m8:154:GLY:O	54:m8:159:LYS:HG3	2.21	0.41
56:n0:83:SER:C	56:n0:85:SER:N	2.78	0.41
58:n2:90:ARG:O	58:n2:91:ASP:HB2	2.20	0.41
59:n3:74:MET:HE2	59:n3:74:MET:HB3	1.87	0.41
61:n5:38:LEU:O	61:n5:39:LYS:HB2	2.21	0.41
67:o1:33:VAL:HG13	67:o1:51:LEU:CD1	2.50	0.41
67:o1:89:LEU:HD12	67:o1:89:LEU:HA	1.92	0.41
74:o8:11:PHE:O	74:o8:14:LEU:HB2	2.21	0.41
1:2:215:A:H8	1:2:215:A:OP2	2.04	0.40
1:2:225:A:H2'	1:2:226:A:O4'	2.21	0.40
1:2:388:G:O2'	1:2:389:G:H5'	2.21	0.40
1:2:555:A:H3'	1:2:555:A:C8	2.56	0.40
1:2:795:U:H5	1:2:796:A:C4	2.39	0.40
1:2:868:G:C2	1:2:869:A:C8	3.08	0.40
1:2:1172:G:H2'	1:2:1173:C:C6	2.57	0.40
1:2:1374:C:H2'	1:2:1375:A:H8	1.87	0.40
1:2:1407:U:H2'	1:2:1408:G:O4'	2.21	0.40
1:2:1413:U:H4'	1:2:1414:U:OP2	2.21	0.40
1:2:1525:A:OP1	21:C9:93:HIS:ND1	2.52	0.40
87:2:1962:OHX:N4	87:2:1964:OHX:N2	2.69	0.40
3:S1:77:GLU:CD	16:C4:114:ARG:HH22	2.19	0.40
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	2.03	0.40
4:S2:44:LEU:HD13	4:S2:239:PRO:O	2.20	0.40
8:S6:79:LYS:HB3	8:S6:79:LYS:HE3	1.55	0.40
8:S6:190:GLN:O	8:S6:193:LEU:N	2.54	0.40
9:S7:30:SER:CB	9:S7:34:LEU:HB2	2.48	0.40
15:C3:21:ASN:O	15:C3:65:VAL:HG11	2.21	0.40
19:C7:33:ARG:NH2	34:SR:85:TRP:HE3	2.18	0.40
20:C8:28:ILE:HG23	20:C8:29:VAL:N	2.36	0.40
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.85	0.40
28:D6:68:TYR:CD2	28:D6:68:TYR:N	2.89	0.40
33:E1:87:THR:C	33:E1:89:LYS:H	2.29	0.40
35:SM:51:ARG:HG3	35:SM:52:PRO:HG2	2.02	0.40
36:1:155:G:H4'	36:1:156:G:H2'	2.02	0.40
36:1:212:G:C6	36:1:222:A:C5	3.09	0.40
36:1:212:G:O2'	41:L4:223:PRO:HD3	2.21	0.40
36:1:1545:A:C5	51:M5:105:ARG:NH1	2.89	0.40
36:1:1910:A:H8	36:1:1910:A:O5'	2.03	0.40
36:1:2107:A:C2	36:1:3344:A:H8	2.38	0.40
36:1:2267:C:H2'	36:1:2268:U:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2279:A:O2'	87:1:3663:OHX:N6	2.53	0.40
36:1:2353:G:C5	36:1:2354:C:C5	3.09	0.40
36:1:2378:C:H2'	36:1:2379:U:C6	2.56	0.40
36:1:2419:A:H2'	36:1:2420:C:C6	2.55	0.40
36:1:2814:G:N7	87:1:3733:OHX:N3	2.69	0.40
36:1:2814:G:C6	87:1:3733:OHX:N4	2.90	0.40
36:1:3057:U:O2	36:1:3086:A:C6	2.74	0.40
36:1:3087:A:H5''	40:L3:365:PHE:CD1	2.55	0.40
36:1:3205:G:H2'	36:1:3206:C:C5	2.56	0.40
36:1:3259:U:H4'	36:1:3261:C:OP2	2.21	0.40
36:1:3270:U:C5	43:L6:46:ARG:NH2	2.88	0.40
36:1:3294:A:H8	36:1:3294:A:H5'	1.86	0.40
37:3:35:C:C5	37:3:36:C:C5	3.09	0.40
37:3:100:C:OP2	56:N0:52:LYS:HE3	2.21	0.40
39:L2:115:ASN:OD1	39:L2:128:ARG:NE	2.51	0.40
40:L3:43:LEU:HD22	40:L3:203:VAL:HG11	2.03	0.40
42:L5:182:GLY:HA2	42:L5:194:LEU:HD13	2.02	0.40
43:L6:39:VAL:HA	43:L6:52:VAL:O	2.21	0.40
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.53	0.40
47:M0:65:LEU:HD23	47:M0:65:LEU:HA	1.87	0.40
48:M1:46:VAL:HG22	48:M1:68:HIS:CE1	2.56	0.40
49:M3:164:GLU:O	49:M3:166:ALA:N	2.54	0.40
52:M6:32:LYS:C	52:M6:33:ILE:HG12	2.46	0.40
52:M6:58:LEU:HD12	52:M6:58:LEU:O	2.21	0.40
53:M7:32:THR:HG22	53:M7:84:PRO:HG2	2.03	0.40
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.35	0.40
59:N3:23:MET:HB2	59:N3:99:ALA:CA	2.51	0.40
76:Q0:79:GLU:O	76:Q0:79:GLU:HG3	2.21	0.40
80:6:884:A:O2'	80:6:885:G:H5'	2.20	0.40
80:6:980:G:N7	87:6:1910:OHX:N4	2.69	0.40
80:6:1389:C:C4	80:6:1391:A:O4'	2.75	0.40
80:6:1661:U:H2'	80:6:1662:G:C8	2.55	0.40
80:6:1662:G:O2'	80:6:1663:G:H5'	2.21	0.40
4:s2:188:LEU:HD13	4:s2:196:VAL:HG11	2.03	0.40
6:s4:118:GLU:OE1	6:s4:237:SER:OG	2.34	0.40
6:s4:259:GLN:OE1	6:s4:259:GLN:HA	2.21	0.40
11:s9:28:LEU:HD23	11:s9:28:LEU:HA	1.74	0.40
11:s9:116:LEU:O	11:s9:118:LEU:HD12	2.20	0.40
81:c0:16:PHE:CZ	81:c0:87:UNK:N	2.89	0.40
81:c0:71:GLU:H	81:c0:71:GLU:HG2	1.42	0.40
13:c1:75:VAL:HG23	13:c1:121:ASP:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:72:MET:O	15:c3:75:LEU:N	2.54	0.40
16:c4:50:ALA:HB3	16:c4:53:ASP:HB2	2.03	0.40
16:c4:103:ARG:HH12	28:d6:48:ALA:CB	2.28	0.40
19:c7:26:LEU:O	19:c7:59:LYS:NZ	2.54	0.40
20:c8:3:LEU:O	20:c8:5:VAL:N	2.53	0.40
25:d3:17:VAL:HG23	25:d3:20:ARG:CZ	2.51	0.40
25:d3:60:GLU:CD	32:e0:3:LYS:HB2	2.47	0.40
26:d4:111:LYS:O	26:d4:112:LYS:C	2.65	0.40
27:d5:91:PRO:HB3	27:d5:101:TYR:CE1	2.56	0.40
28:d6:26:CYS:CB	28:d6:28:LYS:HB2	2.42	0.40
34:sR:216:LYS:C	34:sR:218:GLY:H	2.30	0.40
36:5:67:A:C5	36:5:317:A:H1'	2.55	0.40
36:5:117:U:H4'	36:5:118:U:OP1	2.22	0.40
36:5:198:A:H1'	36:5:218:G:O2'	2.21	0.40
36:5:334:A:C2	36:5:335:G:C5	3.09	0.40
36:5:392:G:C2	36:5:393:U:C6	3.09	0.40
36:5:579:G:C2	36:5:580:C:C2	3.09	0.40
36:5:645:A:C8	36:5:649:A:C6	3.08	0.40
36:5:884:A:C5	36:5:2139:A:O4'	2.74	0.40
36:5:966:U:C2	36:5:967:A:C8	3.09	0.40
36:5:1544:G:OP1	51:m5:127:TYR:OH	2.34	0.40
36:5:1709:C:OP1	70:o4:83:ASN:ND2	2.51	0.40
36:5:2194:G:C4	36:5:2195:C:C5	3.09	0.40
36:5:2700:G:N2	36:5:2755:C:C4	2.89	0.40
36:5:3242:G:H2'	40:l3:154:TYR:CD1	2.56	0.40
36:5:3375:A:C4	36:5:3376:A:N7	2.89	0.40
37:7:22:A:H1'	42:l5:272:TYR:CE1	2.55	0.40
38:8:103:G:H5''	38:8:104:A:OP2	2.21	0.40
40:l3:199:PHE:C	40:l3:201:LYS:N	2.79	0.40
41:l4:192:GLY:HA2	41:l4:195:ARG:HB2	2.02	0.40
41:l4:202:ARG:HA	41:l4:202:ARG:HE	1.86	0.40
41:l4:208:VAL:HA	41:l4:228:ALA:O	2.21	0.40
41:l4:229:ASN:ND2	41:l4:231:ALA:HB3	2.37	0.40
42:l5:113:LEU:HA	42:l5:113:LEU:HD12	1.71	0.40
47:m0:156:ARG:C	47:m0:158:LYS:H	2.28	0.40
51:m5:66:VAL:HG21	51:m5:98:LEU:HB3	2.04	0.40
53:m7:108:ASP:OD2	53:m7:110:THR:HG23	2.21	0.40
54:m8:90:ASP:C	54:m8:92:ARG:H	2.29	0.40
58:n2:87:ASN:O	58:n2:89:LEU:HG	2.21	0.40
60:n4:82:ILE:HB	60:n4:85:ALA:HB3	2.03	0.40
60:n4:126:GLU:O	60:n4:130:SER:OG	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:113:LEU:HD12	61:n5:113:LEU:C	2.46	0.40
62:n6:52:ARG:HA	62:n6:70:ILE:CG2	2.48	0.40
62:n6:115:ARG:O	62:n6:119:ILE:HG13	2.21	0.40
62:n6:120:GLN:HG2	62:n6:126:LEU:HD23	2.03	0.40
68:o2:41:VAL:O	68:o2:45:ARG:N	2.54	0.40
71:o5:4:VAL:HG13	71:o5:5:LYS:N	2.35	0.40
73:o7:16:HIS:HD2	73:o7:28:HIS:CA	2.34	0.40
74:o8:11:PHE:CD1	74:o8:12:LEU:HD22	2.54	0.40
84:p0:69:ASP:OD1	84:p0:69:ASP:N	2.50	0.40
86:B:3402:C:C4	86:B:3403:8AN:N6	2.89	0.40
1:2:252:U:H4'	6:S4:132:GLY:O	2.21	0.40
1:2:577:G:O6	35:SM:100:THR:O	2.39	0.40
1:2:725:U:H3'	1:2:726:C:C6	2.56	0.40
1:2:1054:U:C4	1:2:1055:U:C4	3.09	0.40
1:2:1370:U:O4	87:2:2003:OHX:N5	2.53	0.40
1:2:1450:U:H2'	1:2:1451:C:H6	1.83	0.40
1:2:1614:A:C6	1:2:1615:C:C4	3.09	0.40
2:S0:61:ALA:O	2:S0:63:ILE:N	2.54	0.40
3:S1:157:GLN:HB2	3:S1:160:HIS:CD2	2.55	0.40
4:S2:63:VAL:O	4:S2:64:LYS:HG3	2.21	0.40
4:S2:147:ASN:O	4:S2:148:LEU:O	2.38	0.40
4:S2:228:ASN:OD1	4:S2:229:LEU:N	2.55	0.40
7:S5:133:VAL:O	7:S5:137:ILE:HG12	2.21	0.40
9:S7:158:ASP:O	9:S7:160:GLN:N	2.54	0.40
10:S8:159:GLN:HB3	10:S8:165:LEU:HD23	2.02	0.40
14:C2:131:ASP:OD1	14:C2:132:GLU:HG2	2.21	0.40
17:C5:60:LEU:HD11	17:C5:92:SER:OG	2.20	0.40
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	2.02	0.40
18:C6:127:LYS:HA	18:C6:134:ALA:HA	2.03	0.40
36:1:313:A:H2'	36:1:314:U:O4'	2.21	0.40
36:1:533:A:O2'	36:1:535:G:H5'	2.20	0.40
36:1:600:G:H8	36:1:600:G:H5''	1.85	0.40
36:1:1016:C:O2'	36:1:1028:U:H5'	2.21	0.40
36:1:1017:C:HO2'	36:1:1018:G:P	2.44	0.40
36:1:1101:G:OP2	44:L7:196:LYS:HE2	2.20	0.40
36:1:1357:G:C6	36:1:1358:C:C4	3.09	0.40
36:1:1816:A:HO2'	36:1:1817:G:P	2.40	0.40
36:1:1882:G:H2'	36:1:1883:A:H8	1.86	0.40
36:1:2284:C:C4	36:1:2308:C:O4'	2.75	0.40
36:1:2417:U:C2	36:1:2804:A:C2	3.08	0.40
36:1:3156:U:HO2'	36:1:3157:U:C5'	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3180:A:C5	52:M6:114:LYS:HD2	2.56	0.40
36:1:3210:A:H2'	36:1:3211:C:H6	1.87	0.40
36:1:3337:G:H2'	36:1:3338:C:O4'	2.20	0.40
40:L3:49:TYR:CZ	40:L3:166:ILE:HD12	2.56	0.40
40:L3:53:MET:HE2	40:L3:77:THR:CG2	2.52	0.40
40:L3:86:VAL:HG13	40:L3:160:VAL:CG1	2.51	0.40
40:L3:276:THR:O	40:L3:276:THR:HG22	2.22	0.40
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.20	0.40
41:L4:141:ARG:N	41:L4:177:ASP:OD1	2.52	0.40
42:L5:201:GLY:O	42:L5:204:VAL:N	2.54	0.40
43:L6:165:LEU:HD12	69:O3:8:TYR:O	2.21	0.40
46:L9:117:PHE:C	46:L9:119:GLY:N	2.79	0.40
49:M3:99:HIS:CE1	49:M3:100:ARG:HG2	2.56	0.40
50:M4:102:LYS:HA	50:M4:105:GLN:HB2	2.04	0.40
53:M7:30:ARG:HD3	53:M7:30:ARG:O	2.21	0.40
58:N2:17:VAL:HA	58:N2:103:TYR:O	2.21	0.40
60:N4:29:PHE:CD2	60:N4:40:PHE:CE2	3.09	0.40
61:N5:56:ARG:O	61:N5:57:LEU:HD12	2.22	0.40
61:N5:108:LEU:HD22	61:N5:108:LEU:HA	1.86	0.40
62:N6:35:LEU:HD12	62:N6:45:ILE:HG22	2.02	0.40
64:N8:4:ARG:HG3	64:N8:5:PHE:CE1	2.56	0.40
70:O4:58:ARG:HG2	70:O4:59:PRO:HD2	2.03	0.40
80:6:46:A:H1'	80:6:48:G:C8	2.56	0.40
80:6:147:A:C6	80:6:148:A:C2	3.09	0.40
80:6:252:U:H5'	6:s4:131:LEU:O	2.21	0.40
80:6:577:G:H3'	80:6:577:G:H8	1.85	0.40
80:6:646:C:H2'	80:6:647:G:C8	2.56	0.40
80:6:778:G:C5	80:6:780:A:C8	3.09	0.40
80:6:1248:C:O5'	80:6:1248:C:H6	2.04	0.40
80:6:1564:U:O2'	20:c8:84:TRP:O	2.35	0.40
80:6:1678:A:OP1	10:s8:59:ARG:NH2	2.54	0.40
80:6:1681:A:H1'	8:s6:66:GLY:HA3	2.02	0.40
80:6:1739:C:H2'	80:6:1740:A:H8	1.87	0.40
7:s5:156:ARG:HA	7:s5:157:ARG:HE	1.86	0.40
7:s5:216:GLU:O	7:s5:220:VAL:HG23	2.21	0.40
10:s8:38:ILE:CD1	10:s8:80:GLY:HA2	2.51	0.40
15:c3:151:ASN:O	87:c3:201:OHX:N3	2.53	0.40
17:c5:57:MET:SD	17:c5:60:LEU:HD12	2.60	0.40
19:c7:57:LEU:O	19:c7:60:ARG:HG2	2.21	0.40
33:e1:88:PRO:HA	33:e1:89:LYS:HA	1.78	0.40
34:sR:16:HIS:ND1	34:sR:37:SER:HB3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:23:A:H2'	36:5:24:G:O4'	2.22	0.40
36:5:96:G:OP2	64:n8:34:MET:HB2	2.21	0.40
36:5:193:C:H2'	36:5:194:U:C6	2.55	0.40
36:5:651:G:C6	36:5:652:G:C6	3.10	0.40
36:5:917:A:C5	36:5:918:C:C4	3.10	0.40
36:5:922:U:H5''	36:5:923:C:P	2.61	0.40
36:5:1168:U:H6	36:5:1168:U:H5''	1.86	0.40
36:5:1239:C:H5''	36:5:1239:C:C6	2.57	0.40
36:5:1375:G:N3	36:5:1407:A:C2	2.89	0.40
36:5:1431:G:OP2	64:n8:12:ARG:NH1	2.54	0.40
36:5:1448:U:C5	36:5:2355:G:C2	3.09	0.40
36:5:2275:A:C2	36:5:2312:A:C4	3.09	0.40
36:5:2514:U:OP1	36:5:2514:U:C6	2.73	0.40
36:5:2525:G:O5'	39:12:37:ARG:NH1	2.54	0.40
36:5:2668:U:O5'	36:5:2668:U:H6	2.05	0.40
36:5:2730:G:H4'	54:m8:184:PHE:CG	2.56	0.40
36:5:3279:A:H2'	36:5:3280:U:H5'	2.03	0.40
38:8:107:G:C8	38:8:137:C:N4	2.90	0.40
39:12:10:LYS:HA	39:12:16:PHE:CD2	2.56	0.40
39:12:33:ASP:O	39:12:37:ARG:HB2	2.21	0.40
40:13:56:ILE:HG23	40:13:57:VAL:N	2.35	0.40
40:13:183:LEU:HA	40:13:183:LEU:HD12	1.89	0.40
43:16:60:ASP:O	43:16:61:ASN:HB2	2.20	0.40
43:16:109:GLU:CD	43:16:109:GLU:N	2.78	0.40
44:17:64:GLN:NE2	44:17:67:ARG:HH11	2.19	0.40
46:19:4:ILE:HG23	56:n0:142:GLN:CD	2.47	0.40
48:m1:11:ASP:O	48:m1:12:LEU:HB3	2.21	0.40
48:m1:91:LEU:N	48:m1:170:ASP:O	2.47	0.40
51:m5:24:ARG:HH11	51:m5:24:ARG:HG2	1.85	0.40
51:m5:51:LEU:HD23	51:m5:51:LEU:HA	1.76	0.40
51:m5:109:ARG:HA	51:m5:109:ARG:HD3	1.92	0.40
52:m6:16:VAL:HG21	52:m6:43:ILE:HG12	2.02	0.40
55:m9:172:ARG:O	55:m9:176:ARG:HG2	2.20	0.40
56:n0:66:GLU:O	56:n0:69:PRO:HG3	2.21	0.40
58:n2:47:VAL:O	58:n2:49:ASN:N	2.53	0.40
59:n3:66:LYS:NZ	59:n3:68:GLU:OE1	2.25	0.40
62:n6:48:LEU:HA	62:n6:48:LEU:HD23	1.78	0.40
68:o2:2:ALA:O	68:o2:90:LYS:HG2	2.21	0.40
73:o7:25:ARG:HG3	75:o9:51:ILE:CG1	2.51	0.40
73:o7:28:HIS:CE1	73:o7:30:GLN:HB2	2.55	0.40
1:2:142:G:C5	1:2:266:A:C6	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:187:G:H4'	1:2:188:A:OP1	2.21	0.40
1:2:328:A:H2'	1:2:329:G:O4'	2.21	0.40
1:2:385:A:H5''	10:S8:22:ARG:HB3	2.03	0.40
1:2:513:U:H4'	11:S9:131:GLN:HG2	2.03	0.40
1:2:609:U:H4'	1:2:610:G:O5'	2.22	0.40
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.51	0.40
1:2:968:U:OP1	1:2:1033:C:O2'	2.39	0.40
1:2:1168:U:H2'	1:2:1169:G:H5'	2.03	0.40
1:2:1186:U:OP2	1:2:1456:C:H1'	2.21	0.40
1:2:1227:A:H2'	14:C2:117:GLY:O	2.22	0.40
1:2:1298:U:O3'	4:S2:212:LYS:NZ	2.54	0.40
1:2:1312:A:C4	1:2:1414:U:C4	3.09	0.40
1:2:1354:G:C5	1:2:1355:C:C5	3.10	0.40
1:2:1355:C:C4	1:2:1356:U:C5	3.09	0.40
1:2:1417:A:O3'	18:C6:128:LYS:HE2	2.21	0.40
1:2:1551:U:C2	1:2:1552:U:C5	3.09	0.40
1:2:1612:U:H2'	1:2:1613:U:H5'	2.03	0.40
87:2:1975:OHX:N6	87:2:1990:OHX:N5	2.69	0.40
3:S1:90:GLU:HG2	3:S1:223:PHE:CZ	2.57	0.40
6:S4:135:GLY:O	6:S4:137:PRO:HD3	2.21	0.40
7:S5:157:ARG:HB2	7:S5:224:ASN:OD1	2.20	0.40
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.35	0.40
8:S6:102:VAL:HG13	8:S6:106:LEU:CD1	2.48	0.40
11:S9:44:ARG:O	11:S9:48:GLN:HG3	2.21	0.40
13:C1:55:ASP:OD2	13:C1:113:PRO:HD2	2.21	0.40
14:C2:33:ARG:HA	14:C2:36:LEU:HB2	2.03	0.40
18:C6:7:VAL:O	18:C6:22:VAL:N	2.44	0.40
19:C7:51:ALA:O	19:C7:53:TYR:N	2.54	0.40
20:C8:45:LEU:HD13	21:C9:36:ILE:HA	2.02	0.40
22:D0:83:GLU:HG3	31:D9:55:PHE:CD2	2.56	0.40
34:SR:144:LEU:HD13	34:SR:144:LEU:HA	1.73	0.40
34:SR:164:ASP:O	34:SR:166:SER:N	2.51	0.40
34:SR:272:ASP:OD1	34:SR:273:ASP:N	2.52	0.40
36:1:437:G:H2'	36:1:438:A:O4'	2.21	0.40
36:1:773:G:N2	36:1:774:G:H1'	2.35	0.40
36:1:873:C:H5''	36:1:874:U:O5'	2.21	0.40
36:1:903:U:O4	87:1:3795:OHX:N6	2.55	0.40
36:1:1161:G:O3'	68:O2:54:LYS:HD2	2.21	0.40
36:1:1331:U:H4'	36:1:1332:A:OP2	2.21	0.40
36:1:1523:U:C2	61:N5:123:TYR:CD2	3.09	0.40
36:1:1791:C:H2'	36:1:1792:C:C5	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1844:C:O2	73:O7:9:GLY:HA2	2.21	0.40
36:1:1940:G:N2	36:1:3362:A:C8	2.89	0.40
36:1:2115:G:O2'	55:M9:82:LYS:HE3	2.21	0.40
36:1:2137:U:C6	36:1:2141:U:C4	3.09	0.40
36:1:2660:G:H4'	36:1:2750:U:O2	2.21	0.40
36:1:2674:A:H5''	48:M1:105:GLY:HA3	2.03	0.40
36:1:3276:G:H1	69:O3:60:ARG:CZ	2.33	0.40
42:L5:110:LEU:HD12	42:L5:110:LEU:HA	1.97	0.40
43:L6:56:LYS:H	43:L6:64:LEU:HB3	1.87	0.40
44:L7:175:LYS:HB3	44:L7:176:TYR:CD1	2.56	0.40
45:L8:101:THR:HG22	45:L8:104:GLU:OE2	2.21	0.40
46:L9:2:LYS:HB3	46:L9:59:ASN:OD1	2.22	0.40
46:L9:191:LEU:HD23	46:L9:191:LEU:HA	1.84	0.40
50:M4:27:GLN:H	50:M4:27:GLN:HG2	1.20	0.40
51:M5:188:ARG:HH11	51:M5:188:ARG:HD3	1.75	0.40
53:M7:13:LYS:O	53:M7:152:GLU:HG3	2.21	0.40
54:M8:8:LYS:HE3	54:M8:8:LYS:HB2	1.90	0.40
54:M8:103:ALA:HB3	54:M8:106:PHE:CE2	2.56	0.40
55:M9:15:VAL:HG11	55:M9:52:LYS:HG3	2.03	0.40
56:N0:124:LEU:HA	56:N0:124:LEU:HD23	1.89	0.40
57:N1:40:VAL:CB	57:N1:96:ILE:HG13	2.51	0.40
63:N7:51:LEU:HB2	63:N7:65:ARG:HH11	1.87	0.40
64:N8:79:TRP:HE1	64:N8:119:PRO:HD2	1.86	0.40
66:O0:43:ILE:HD12	66:O0:90:VAL:HB	2.03	0.40
72:O6:5:THR:N	72:O6:12:ASN:O	2.39	0.40
72:O6:97:SER:C	72:O6:99:ARG:N	2.76	0.40
79:Q3:84:ARG:O	79:Q3:85:ARG:C	2.64	0.40
80:6:168:A:C6	80:6:169:A:N6	2.89	0.40
80:6:478:A:OP1	32:e0:33:ARG:NH2	2.55	0.40
80:6:558:U:O2'	80:6:559:C:H5''	2.22	0.40
80:6:649:U:H2'	80:6:650:U:H5	1.85	0.40
80:6:730:G:C6	80:6:731:C:C4	3.09	0.40
80:6:864:U:OP2	29:d7:26:GLN:NE2	2.55	0.40
80:6:926:A:H2'	80:6:927:C:O4'	2.21	0.40
80:6:1498:G:C2	80:6:1499:G:C5	3.10	0.40
2:s0:3:LEU:O	2:s0:4:PRO:C	2.64	0.40
2:s0:60:ALA:HB2	2:s0:160:ILE:HD11	2.03	0.40
2:s0:108:THR:O	2:s0:109:ASN:HB3	2.21	0.40
2:s0:119:ARG:HB3	2:s0:119:ARG:HH11	1.84	0.40
2:s0:126:PRO:HB2	2:s0:152:PRO:HG2	2.02	0.40
3:s1:187:LYS:HB3	3:s1:193:ILE:HD11	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:39:THR:HG23	4:s2:65:GLU:OE1	2.22	0.40
8:s6:116:LYS:HG3	8:s6:117:GLY:H	1.87	0.40
9:s7:143:LEU:C	9:s7:145:GLY:N	2.73	0.40
14:c2:40:GLY:O	14:c2:124:LYS:N	2.53	0.40
15:c3:41:ALA:HB2	15:c3:75:LEU:HD23	2.04	0.40
17:c5:21:ASP:O	17:c5:24:LYS:N	2.54	0.40
22:d0:61:LYS:N	22:d0:86:ILE:O	2.43	0.40
22:d0:108:ILE:HA	22:d0:108:ILE:HD12	1.79	0.40
23:d1:14:PRO:HB2	23:d1:23:ILE:HG23	2.03	0.40
24:d2:7:LEU:HD11	24:d2:37:PHE:HD2	1.84	0.40
24:d2:52:TYR:CD2	24:d2:53:ILE:N	2.89	0.40
30:d8:30:VAL:HG22	30:d8:40:ILE:O	2.21	0.40
36:5:34:A:H2'	36:5:35:A:C8	2.56	0.40
36:5:151:A:H2'	36:5:152:U:O4'	2.20	0.40
36:5:288:C:O3'	51:m5:171:SER:HA	2.22	0.40
36:5:901:G:OP1	73:o7:12:HIS:HE1	2.05	0.40
36:5:965:A:H1'	64:n8:40:HIS:O	2.20	0.40
36:5:1004:U:C4	36:5:1005:G:N7	2.89	0.40
36:5:1063:G:H2'	36:5:1097:G:N2	2.36	0.40
36:5:1265:U:H2'	36:5:1266:G:O4'	2.21	0.40
36:5:1470:U:H2'	36:5:1471:U:C6	2.56	0.40
36:5:1508:C:H2'	36:5:1509:A:O4'	2.21	0.40
36:5:1915:A:H5''	55:m9:84:THR:HG22	2.04	0.40
36:5:2295:A:OP2	59:n3:71:LYS:HA	2.21	0.40
36:5:2745:G:N2	36:5:2748:A:OP2	2.54	0.40
36:5:3242:G:H5'	40:l3:154:TYR:CE1	2.57	0.40
39:l2:15:ILE:HA	39:l2:15:ILE:HD12	1.75	0.40
39:l2:224:THR:HA	39:l2:237:LEU:O	2.21	0.40
40:l3:107:ALA:HA	40:l3:199:PHE:CD2	2.57	0.40
41:l4:126:ILE:HG13	41:l4:238:LEU:HD13	2.03	0.40
42:l5:205:SER:O	42:l5:208:MET:N	2.54	0.40
45:l8:195:SER:O	45:l8:196:ALA:HB3	2.21	0.40
46:l9:4:ILE:HD11	56:n0:148:LEU:HD21	2.04	0.40
47:m0:10:ARG:HG2	47:m0:11:TYR:CD1	2.56	0.40
47:m0:36:LEU:CD1	47:m0:87:LEU:HB3	2.52	0.40
47:m0:150:GLU:O	47:m0:151:GLY:C	2.62	0.40
48:m1:171:VAL:O	48:m1:171:VAL:HG13	2.22	0.40
51:m5:50:ARG:O	51:m5:50:ARG:HG2	2.21	0.40
51:m5:85:THR:C	51:m5:87:GLN:N	2.79	0.40
55:m9:6:THR:HG23	55:m9:9:ARG:NH1	2.35	0.40
55:m9:132:PHE:CG	55:m9:138:LEU:HD23	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:n7:84:ARG:HA	66:o0:62:LEU:HD21	2.02	0.40
73:o7:16:HIS:HD2	73:o7:28:HIS:HA	1.85	0.40
75:o9:37:TYR:CE1	75:o9:39:ALA:HA	2.56	0.40
84:p0:4:ILE:HG12	84:p0:5:ARG:N	2.35	0.40
1:2:218:A:HO2'	1:2:219:A:P	2.43	0.40
1:2:602:U:H2'	1:2:603:U:H6	1.86	0.40
1:2:1009:U:H2'	1:2:1010:C:C6	2.54	0.40
1:2:1654:G:H2'	1:2:1745:G:N2	2.35	0.40
2:S0:195:TRP:CZ2	2:S0:197:ILE:HD13	2.57	0.40
3:S1:97:LEU:HD22	3:S1:97:LEU:HA	1.97	0.40
5:S3:212:LYS:HE2	5:S3:212:LYS:HB2	1.87	0.40
7:S5:150:GLY:N	30:D8:67:ARG:O	2.45	0.40
9:S7:48:GLU:OE2	9:S7:56:LYS:HD2	2.22	0.40
11:S9:37:LYS:HA	32:E0:33:ARG:HA	2.04	0.40
19:C7:21:TYR:CD2	19:C7:58:MET:HE1	2.57	0.40
21:C9:79:LEU:C	21:C9:81:GLY:H	2.29	0.40
23:D1:81:ASN:O	23:D1:83:TRP:N	2.54	0.40
24:D2:28:ARG:HG3	24:D2:29:PRO:CA	2.51	0.40
27:D5:55:PRO:C	27:D5:57:TYR:N	2.79	0.40
35:SM:46:LYS:O	36:1:1018:G:H5''	2.21	0.40
36:1:45:A:H2'	36:1:46:U:O4'	2.21	0.40
36:1:80:G:H2'	36:1:81:C:C6	2.57	0.40
36:1:616:G:H2'	36:1:617:G:H8	1.87	0.40
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.56	0.40
36:1:688:G:C6	36:1:690:A:C5	3.09	0.40
36:1:730:C:H2'	36:1:731:U:C6	2.55	0.40
36:1:782:U:C4	36:1:783:A:C5	3.10	0.40
36:1:1304:A:N6	36:1:2860:U:H5''	2.36	0.40
36:1:1667:A:N6	36:1:1668:G:O6	2.54	0.40
36:1:1756:C:O2	36:1:1770:G:C2	2.75	0.40
36:1:1819:U:O4	87:1:3580:OHX:N4	2.55	0.40
36:1:2240:G:H2'	36:1:2241:U:O4'	2.22	0.40
36:1:2572:C:O2'	36:1:2573:G:P	2.80	0.40
36:1:2710:C:H2'	36:1:2711:C:C6	2.56	0.40
36:1:2857:C:O2'	36:1:2858:U:H5'	2.21	0.40
36:1:2903:A:H8	36:1:2903:A:O5'	2.04	0.40
36:1:2964:G:N2	36:1:2967:A:OP2	2.40	0.40
36:1:3019:U:C4	36:1:3020:U:C4	3.09	0.40
36:1:3132:C:H2'	36:1:3133:C:C6	2.56	0.40
36:1:3327:G:N2	36:1:3328:G:H1'	2.37	0.40
37:3:9:C:C2'	37:3:10:C:H5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:85:G:H3'	38:4:85:G:H8	1.85	0.40
39:L2:200:ARG:O	39:L2:203:ALA:N	2.37	0.40
40:L3:252:ILE:HD12	40:L3:252:ILE:HA	1.70	0.40
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.21	0.40
45:L8:136:LEU:HB3	45:L8:137:ASN:H	1.79	0.40
46:L9:67:ALA:HA	46:L9:70:THR:CG2	2.50	0.40
52:M6:11:GLY:O	52:M6:12:LYS:C	2.63	0.40
54:M8:133:LYS:HB2	54:M8:135:GLN:HE22	1.84	0.40
55:M9:123:LEU:O	55:M9:127:SER:OG	2.37	0.40
65:N9:4:SER:O	65:N9:5:LYS:C	2.64	0.40
68:O2:3:SER:O	68:O2:4:LEU:C	2.64	0.40
70:O4:3:GLN:CG	70:O4:30:LEU:HB2	2.51	0.40
71:O5:13:SER:H	71:O5:16:GLN:HB2	1.86	0.40
74:O8:65:LEU:O	74:O8:68:SER:N	2.55	0.40
80:6:300:A:O2'	80:6:301:A:H5'	2.22	0.40
80:6:426:G:C2'	80:6:427:C:H5'	2.52	0.40
80:6:874:C:H2'	80:6:875:G:C8	2.56	0.40
80:6:886:U:C2	80:6:887:A:C8	3.09	0.40
80:6:938:G:N1	80:6:941:A:OP2	2.53	0.40
80:6:970:A:C8	80:6:970:A:C3'	3.05	0.40
80:6:1673:G:C5	80:6:1674:C:C5	3.09	0.40
4:s2:91:ARG:O	4:s2:91:ARG:HD3	2.21	0.40
4:s2:167:VAL:HG22	4:s2:200:SER:HB3	2.04	0.40
4:s2:169:LEU:CD2	4:s2:198:THR:HG22	2.52	0.40
6:s4:36:HIS:HE2	6:s4:88:ASP:CG	2.30	0.40
8:s6:120:GLU:OE1	8:s6:125:THR:HG21	2.21	0.40
9:s7:20:VAL:HA	9:s7:23:ALA:HB3	2.04	0.40
9:s7:66:SER:C	9:s7:68:ALA:H	2.29	0.40
10:s8:62:THR:OG1	10:s8:62:THR:O	2.40	0.40
20:c8:61:LEU:HA	20:c8:65:GLU:OE1	2.22	0.40
23:d1:17:CYS:SG	23:d1:56:SER:HB3	2.61	0.40
28:d6:49:ALA:O	28:d6:50:VAL:C	2.64	0.40
34:sR:199:ILE:HA	34:sR:215:GLY:HA3	2.02	0.40
36:5:359:U:H4'	36:5:817:A:N6	2.36	0.40
36:5:436:A:H61	36:5:623:U:H3	1.68	0.40
36:5:979:U:C2	36:5:980:A:N3	2.90	0.40
36:5:1267:U:H2'	36:5:1268:G:O4'	2.21	0.40
36:5:1307:G:H1'	36:5:1308:A:C8	2.56	0.40
36:5:1406:A:C2	36:5:1407:A:C2	3.09	0.40
36:5:1621:A:H2'	36:5:1622:U:H6	1.86	0.40
36:5:1805:C:OP1	70:o4:71:THR:HG21	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2172:A:C2	36:5:2173:U:C2	3.10	0.40
36:5:2370:G:C6	36:5:2371:G:C6	3.09	0.40
36:5:2537:U:HO2'	36:5:2538:U:C4'	2.34	0.40
36:5:2665:U:H4'	36:5:2666:C:OP1	2.21	0.40
36:5:2767:U:H2'	36:5:2768:U:C6	2.55	0.40
36:5:2859:U:H4'	36:5:2860:U:O5'	2.21	0.40
36:5:3242:G:N2	36:5:3245:A:H5''	2.37	0.40
36:5:3264:G:N2	36:5:3265:C:H1'	2.36	0.40
36:5:3331:U:H2'	36:5:3332:U:O4'	2.21	0.40
37:7:7:G:OP1	42:15:33:ARG:HD2	2.21	0.40
38:8:60:U:C5	71:o5:55:LEU:HB3	2.56	0.40
40:l3:17:LEU:HD12	40:l3:17:LEU:HA	1.82	0.40
42:l5:261:THR:HG23	42:l5:264:GLN:HE21	1.85	0.40
45:l8:186:LEU:CB	45:l8:195:SER:HB3	2.51	0.40
47:m0:156:ARG:HH11	47:m0:156:ARG:HD3	1.68	0.40
51:m5:96:ARG:HG2	51:m5:96:ARG:NH1	2.36	0.40
53:m7:16:SER:HA	53:m7:149:VAL:HA	2.03	0.40
55:m9:99:LEU:HD21	55:m9:128:LYS:HA	2.03	0.40
64:n8:14:HIS:CE1	68:o2:36:LYS:HE2	2.57	0.40
71:o5:49:LYS:HG2	71:o5:49:LYS:H	1.70	0.40
72:o6:43:LEU:O	72:o6:47:ILE:HG13	2.22	0.40
78:q2:7:THR:OG1	78:q2:22:GLN:NE2	2.50	0.40
1:2:131:C:O2'	1:2:132:U:OP1	2.30	0.40
1:2:463:U:C2	1:2:464:A:C8	3.10	0.40
1:2:476:U:OP1	1:2:477:A:O2'	2.24	0.40
1:2:494:U:HO2'	1:2:495:C:P	2.41	0.40
1:2:1151:A:H4'	1:2:1766:A:C5	2.57	0.40
1:2:1214:U:OP1	1:2:1246:C:H1'	2.21	0.40
2:S0:20:ALA:O	2:S0:21:ASN:HB2	2.21	0.40
2:S0:105:GLY:O	2:S0:112:THR:HG21	2.22	0.40
2:S0:142:PRO:HB3	23:D1:34:ILE:CD1	2.52	0.40
6:S4:68:ARG:HB3	6:S4:76:VAL:CG1	2.52	0.40
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.22	0.40
6:S4:104:ASP:OD2	6:S4:108:ARG:HB2	2.21	0.40
8:S6:14:LYS:HD3	8:S6:16:PHE:CZ	2.57	0.40
13:C1:29:LYS:O	13:C1:31:THR:N	2.54	0.40
15:C3:120:SER:O	15:C3:124:ARG:HG3	2.22	0.40
17:C5:86:VAL:CG2	17:C5:88:GLU:H	2.35	0.40
21:C9:89:ARG:HG3	21:C9:89:ARG:NH1	2.37	0.40
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.57	0.40
28:D6:75:VAL:O	28:D6:79:ILE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:74:THR:OG1	34:SR:79:TYR:N	2.41	0.40
34:SR:248:ASN:OD1	34:SR:298:GLY:HA3	2.21	0.40
36:1:439:C:H5'	36:1:440:A:C8	2.56	0.40
36:1:540:U:H2'	36:1:541:U:H6	1.86	0.40
36:1:644:G:H2'	36:1:2372:A:N7	2.37	0.40
36:1:733:G:H8	36:1:733:G:O5'	2.05	0.40
36:1:835:G:N3	36:1:857:G:C2	2.90	0.40
36:1:901:G:N7	87:1:3475:OHX:N5	2.70	0.40
36:1:1134:G:N7	87:1:3492:OHX:N6	2.69	0.40
36:1:1281:G:C2	36:1:1282:G:C8	3.09	0.40
36:1:1294:A:N3	36:1:1295:G:C8	2.90	0.40
36:1:1481:A:H2'	36:1:1858:A:N3	2.36	0.40
36:1:1493:G:C4	75:O9:13:MET:SD	3.14	0.40
36:1:1556:C:H2'	36:1:2169:G:H1	1.86	0.40
36:1:1706:C:H2'	36:1:1707:A:O4'	2.22	0.40
36:1:1833:G:OP1	75:O9:10:LYS:HD2	2.21	0.40
36:1:1900:A:C5	36:1:1906:G:C5	3.09	0.40
36:1:2813:A:C6	36:1:2814:G:C5	3.10	0.40
36:1:3267:A:N3	43:L6:73:GLY:HA3	2.36	0.40
36:1:3290:G:C6	36:1:3291:G:C5	3.09	0.40
36:1:3296:A:C6	36:1:3297:U:C4	3.09	0.40
36:1:3343:G:H2'	36:1:3361:G:H22	1.84	0.40
38:4:128:U:H6	38:4:128:U:O5'	2.04	0.40
39:L2:62:VAL:HG11	39:L2:71:LEU:HD23	2.03	0.40
39:L2:109:GLU:H	39:L2:109:GLU:HG2	1.59	0.40
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.49	0.40
44:L7:24:GLU:CD	44:L7:25:GLN:N	2.79	0.40
44:L7:231:ASN:OD1	44:L7:233:GLU:N	2.54	0.40
45:L8:211:LEU:O	45:L8:215:VAL:HG23	2.21	0.40
47:M0:65:LEU:HD23	47:M0:159:PHE:HZ	1.86	0.40
47:M0:86:HIS:HB3	47:M0:139:ARG:CG	2.50	0.40
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	2.04	0.40
51:M5:174:ILE:H	51:M5:174:ILE:HG13	1.56	0.40
53:M7:168:LEU:HB3	53:M7:172:GLN:CD	2.46	0.40
54:M8:98:LYS:HB3	54:M8:99:THR:H	1.53	0.40
71:O5:115:LYS:HB2	71:O5:115:LYS:HE2	1.87	0.40
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.62	0.40
79:Q3:10:ILE:O	79:Q3:13:LYS:HG2	2.22	0.40
80:6:257:A:C2	80:6:258:C:C2	3.09	0.40
80:6:403:G:H5''	80:6:404:G:OP1	2.22	0.40
80:6:555:A:C8	80:6:555:A:C3'	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1029:U:O2'	80:6:1030:A:H5'	2.20	0.40
80:6:1064:G:C6	80:6:1065:A:C6	3.10	0.40
80:6:1082:C:C2'	80:6:1083:G:H5'	2.52	0.40
80:6:1326:A:O3'	5:s3:156:PHE:HE1	2.04	0.40
80:6:1582:U:H5''	18:c6:135:ARG:HH11	1.86	0.40
80:6:1685:G:H1	80:6:1716:C:H42	1.70	0.40
2:s0:71:GLU:O	2:s0:96:THR:N	2.55	0.40
2:s0:146:LEU:HD13	2:s0:162:CYS:SG	2.60	0.40
3:s1:70:LEU:HB3	3:s1:79:HIS:CB	2.46	0.40
4:s2:181:SER:O	4:s2:182:PRO:C	2.64	0.40
5:s3:17:PHE:O	5:s3:21:LEU:N	2.46	0.40
5:s3:51:ARG:HG2	5:s3:89:GLU:HB2	2.04	0.40
6:s4:89:VAL:O	6:s4:99:PHE:O	2.39	0.40
7:s5:99:MET:HA	7:s5:104:ASN:ND2	2.37	0.40
7:s5:119:ASP:HB3	27:d5:100:ILE:CD1	2.51	0.40
8:s6:32:ILE:HG23	8:s6:53:SER:HA	2.03	0.40
8:s6:106:LEU:HD23	8:s6:106:LEU:HA	1.94	0.40
9:s7:75:THR:HG23	9:s7:161:GLN:OE1	2.21	0.40
10:s8:184:LEU:HD21	10:s8:192:TYR:CD2	2.56	0.40
11:s9:86:LEU:HD13	11:s9:99:LEU:HD13	2.04	0.40
13:c1:34:TRP:CH2	13:c1:36:LYS:HB3	2.56	0.40
17:c5:96:ILE:HG22	17:c5:97:TYR:O	2.22	0.40
18:c6:127:LYS:HG2	18:c6:128:LYS:N	2.36	0.40
19:c7:54:THR:HA	19:c7:57:LEU:HD12	2.03	0.40
19:c7:88:VAL:HG22	19:c7:89:SER:C	2.47	0.40
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	2.04	0.40
22:d0:106:ILE:HG12	22:d0:106:ILE:O	2.22	0.40
23:d1:34:ILE:H	23:d1:34:ILE:HG12	1.64	0.40
25:d3:72:VAL:HG11	25:d3:96:VAL:HG21	2.03	0.40
25:d3:86:PHE:O	25:d3:88:PRO:HD3	2.21	0.40
33:e1:84:VAL:HG13	33:e1:85:TYR:CD1	2.34	0.40
36:5:27:C:H1'	36:5:328:U:H1'	2.02	0.40
36:5:114:A:H2'	36:5:115:A:O4'	2.21	0.40
36:5:129:U:H2'	36:5:130:A:C8	2.56	0.40
36:5:198:A:C4	36:5:219:A:C2	3.09	0.40
36:5:286:U:H2'	36:5:287:G:C8	2.57	0.40
36:5:744:A:H4'	54:m8:142:GLY:O	2.22	0.40
36:5:1479:U:O2'	36:5:1484:U:H2'	2.21	0.40
36:5:1679:A:C2	36:5:1690:C:N3	2.89	0.40
36:5:1687:U:H1'	58:n2:75:TYR:CE2	2.57	0.40
36:5:1714:A:C5	36:5:1728:G:C6	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1874:A:H2'	36:5:1875:G:O4'	2.22	0.40
36:5:2315:G:OP2	87:5:3473:OHX:N3	2.53	0.40
36:5:2424:A:C8	36:5:2425:G:C8	3.10	0.40
36:5:2513:U:OP2	87:5:3466:OHX:N3	2.55	0.40
36:5:2533:G:N2	36:5:2546:C:N3	2.57	0.40
36:5:2750:U:H2'	36:5:2751:G:H8	1.86	0.40
36:5:2943:G:H2'	36:5:2944:U:O4'	2.22	0.40
36:5:3198:U:H4'	36:5:3199:G:OP2	2.20	0.40
36:5:3356:G:C6	36:5:3357:U:C4	3.09	0.40
42:l5:23:ARG:HD2	42:l5:23:ARG:O	2.21	0.40
42:l5:257:GLU:O	42:l5:258:LYS:HD3	2.22	0.40
46:l9:106:LYS:H	46:l9:109:ALA:HB3	1.85	0.40
49:m3:46:ILE:HD12	49:m3:49:ARG:NH2	2.36	0.40
52:m6:130:LYS:HG3	52:m6:131:PRO:N	2.35	0.40
53:m7:31:GLU:CD	53:m7:61:ARG:H	2.30	0.40
55:m9:89:LEU:HD12	55:m9:89:LEU:HA	1.82	0.40
55:m9:153:LYS:O	55:m9:157:GLU:HG3	2.22	0.40
57:n1:8:ARG:O	57:n1:11:THR:OG1	2.30	0.40
58:n2:95:PHE:CE1	58:n2:103:TYR:CD1	3.10	0.40
60:n4:6:ASP:HA	60:n4:13:ILE:HD11	2.02	0.40
74:o8:8:ILE:H	74:o8:8:ILE:CD1	2.32	0.40
77:q1:7:LYS:O	77:q1:8:LYS:C	2.65	0.40
79:q3:42:CYS:SG	79:q3:44:LYS:HG3	2.61	0.40
84:p0:19:LEU:HD22	84:p0:73:PHE:CE1	2.56	0.40
84:p0:40:GLU:HB2	84:p0:104:ARG:HG3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	204/206 (99%)	150 (74%)	34 (17%)	20 (10%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	s0	204/206 (99%)	151 (74%)	30 (15%)	23 (11%)	0	2
3	S1	212/216 (98%)	149 (70%)	42 (20%)	21 (10%)	0	3
3	s1	214/216 (99%)	174 (81%)	29 (14%)	11 (5%)	1	11
4	S2	215/217 (99%)	176 (82%)	22 (10%)	17 (8%)	1	5
4	s2	215/217 (99%)	177 (82%)	23 (11%)	15 (7%)	1	7
5	S3	221/223 (99%)	177 (80%)	34 (15%)	10 (4%)	2	13
5	s3	221/223 (99%)	172 (78%)	31 (14%)	18 (8%)	1	5
6	S4	258/260 (99%)	204 (79%)	40 (16%)	14 (5%)	1	10
6	s4	258/260 (99%)	207 (80%)	30 (12%)	21 (8%)	1	5
7	S5	204/206 (99%)	168 (82%)	21 (10%)	15 (7%)	1	6
7	s5	204/206 (99%)	156 (76%)	30 (15%)	18 (9%)	0	4
8	S6	224/226 (99%)	194 (87%)	18 (8%)	12 (5%)	1	10
8	s6	216/226 (96%)	186 (86%)	18 (8%)	12 (6%)	1	10
9	S7	182/186 (98%)	133 (73%)	25 (14%)	24 (13%)	0	1
9	s7	184/186 (99%)	147 (80%)	23 (12%)	14 (8%)	1	6
10	S8	184/199 (92%)	146 (79%)	29 (16%)	9 (5%)	2	12
10	s8	184/199 (92%)	150 (82%)	27 (15%)	7 (4%)	2	17
11	S9	183/185 (99%)	143 (78%)	28 (15%)	12 (7%)	1	7
11	s9	183/185 (99%)	157 (86%)	20 (11%)	6 (3%)	3	19
12	C0	94/96 (98%)	67 (71%)	16 (17%)	11 (12%)	0	1
13	C1	153/155 (99%)	128 (84%)	18 (12%)	7 (5%)	2	13
13	c1	144/155 (93%)	114 (79%)	19 (13%)	11 (8%)	1	6
14	C2	122/124 (98%)	73 (60%)	27 (22%)	22 (18%)	0	1
14	c2	122/124 (98%)	70 (57%)	31 (25%)	21 (17%)	0	1
15	C3	148/150 (99%)	120 (81%)	23 (16%)	5 (3%)	3	19
15	c3	148/150 (99%)	115 (78%)	20 (14%)	13 (9%)	0	4
16	C4	125/128 (98%)	97 (78%)	16 (13%)	12 (10%)	0	3
16	c4	126/128 (98%)	98 (78%)	20 (16%)	8 (6%)	1	8
17	C5	122/135 (90%)	90 (74%)	18 (15%)	14 (12%)	0	2
17	c5	133/135 (98%)	100 (75%)	13 (10%)	20 (15%)	0	1
18	C6	139/142 (98%)	115 (83%)	18 (13%)	6 (4%)	2	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	c6	140/142 (99%)	120 (86%)	12 (9%)	8 (6%)	1	9
19	C7	116/125 (93%)	90 (78%)	18 (16%)	8 (7%)	1	7
19	c7	113/125 (90%)	92 (81%)	11 (10%)	10 (9%)	0	4
20	C8	143/145 (99%)	109 (76%)	25 (18%)	9 (6%)	1	8
20	c8	143/145 (99%)	120 (84%)	15 (10%)	8 (6%)	1	10
21	C9	141/143 (99%)	114 (81%)	19 (14%)	8 (6%)	1	9
21	c9	141/143 (99%)	120 (85%)	15 (11%)	6 (4%)	2	14
22	D0	105/110 (96%)	86 (82%)	14 (13%)	5 (5%)	2	12
22	d0	108/110 (98%)	82 (76%)	14 (13%)	12 (11%)	0	2
23	D1	85/87 (98%)	65 (76%)	11 (13%)	9 (11%)	0	2
23	d1	85/87 (98%)	69 (81%)	10 (12%)	6 (7%)	1	7
24	D2	127/129 (98%)	102 (80%)	21 (16%)	4 (3%)	3	21
24	d2	127/129 (98%)	100 (79%)	25 (20%)	2 (2%)	8	32
25	D3	142/144 (99%)	109 (77%)	22 (16%)	11 (8%)	1	5
25	d3	142/144 (99%)	119 (84%)	20 (14%)	3 (2%)	5	27
26	D4	132/134 (98%)	108 (82%)	16 (12%)	8 (6%)	1	9
26	d4	132/134 (98%)	100 (76%)	19 (14%)	13 (10%)	0	3
27	D5	68/70 (97%)	49 (72%)	11 (16%)	8 (12%)	0	1
27	d5	67/70 (96%)	51 (76%)	13 (19%)	3 (4%)	2	13
28	D6	95/97 (98%)	62 (65%)	18 (19%)	15 (16%)	0	1
28	d6	95/97 (98%)	71 (75%)	13 (14%)	11 (12%)	0	2
29	D7	79/81 (98%)	62 (78%)	13 (16%)	4 (5%)	1	11
29	d7	79/81 (98%)	58 (73%)	15 (19%)	6 (8%)	1	6
30	D8	61/63 (97%)	48 (79%)	11 (18%)	2 (3%)	3	19
30	d8	61/63 (97%)	44 (72%)	12 (20%)	5 (8%)	1	5
31	D9	51/53 (96%)	36 (71%)	8 (16%)	7 (14%)	0	1
31	d9	51/53 (96%)	42 (82%)	6 (12%)	3 (6%)	1	9
32	E0	58/62 (94%)	47 (81%)	7 (12%)	4 (7%)	1	7
32	e0	60/62 (97%)	43 (72%)	10 (17%)	7 (12%)	0	1
33	E1	69/76 (91%)	39 (56%)	15 (22%)	15 (22%)	0	0
33	e1	74/76 (97%)	38 (51%)	19 (26%)	17 (23%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	SR	316/318 (99%)	275 (87%)	31 (10%)	10 (3%)	3	20
34	sR	316/318 (99%)	259 (82%)	44 (14%)	13 (4%)	2	15
35	SM	131/159 (82%)	95 (72%)	18 (14%)	18 (14%)	0	1
39	L2	250/252 (99%)	222 (89%)	17 (7%)	11 (4%)	2	14
39	l2	250/252 (99%)	201 (80%)	39 (16%)	10 (4%)	2	16
40	L3	384/386 (100%)	323 (84%)	44 (12%)	17 (4%)	2	14
40	l3	384/386 (100%)	331 (86%)	35 (9%)	18 (5%)	2	13
41	L4	359/361 (99%)	284 (79%)	50 (14%)	25 (7%)	1	7
41	l4	359/361 (99%)	275 (77%)	57 (16%)	27 (8%)	1	6
42	L5	294/296 (99%)	225 (76%)	43 (15%)	26 (9%)	0	4
42	l5	292/296 (99%)	243 (83%)	42 (14%)	7 (2%)	5	25
43	L6	152/175 (87%)	131 (86%)	18 (12%)	3 (2%)	6	28
43	l6	153/175 (87%)	123 (80%)	25 (16%)	5 (3%)	3	19
44	L7	220/223 (99%)	185 (84%)	26 (12%)	9 (4%)	2	15
44	l7	221/223 (99%)	195 (88%)	18 (8%)	8 (4%)	3	18
45	L8	231/233 (99%)	180 (78%)	35 (15%)	16 (7%)	1	7
45	l8	229/233 (98%)	179 (78%)	33 (14%)	17 (7%)	1	6
46	L9	189/191 (99%)	159 (84%)	22 (12%)	8 (4%)	2	15
46	l9	189/191 (99%)	156 (82%)	25 (13%)	8 (4%)	2	15
47	M0	207/220 (94%)	166 (80%)	30 (14%)	11 (5%)	1	10
47	m0	209/220 (95%)	164 (78%)	30 (14%)	15 (7%)	1	6
48	M1	167/169 (99%)	132 (79%)	16 (10%)	19 (11%)	0	2
48	m1	167/169 (99%)	137 (82%)	18 (11%)	12 (7%)	1	6
49	M3	191/194 (98%)	148 (78%)	28 (15%)	15 (8%)	1	5
49	m3	192/194 (99%)	153 (80%)	26 (14%)	13 (7%)	1	7
50	M4	134/137 (98%)	109 (81%)	14 (10%)	11 (8%)	1	5
50	m4	135/137 (98%)	118 (87%)	15 (11%)	2 (2%)	8	33
51	M5	201/203 (99%)	171 (85%)	21 (10%)	9 (4%)	2	13
51	m5	201/203 (99%)	169 (84%)	26 (13%)	6 (3%)	3	21
52	M6	195/197 (99%)	180 (92%)	13 (7%)	2 (1%)	13	42
52	m6	195/197 (99%)	179 (92%)	13 (7%)	3 (2%)	8	33

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	M7	181/183 (99%)	144 (80%)	26 (14%)	11 (6%)	1	9
53	m7	153/183 (84%)	127 (83%)	24 (16%)	2 (1%)	10	36
54	M8	183/185 (99%)	157 (86%)	20 (11%)	6 (3%)	3	19
54	m8	183/185 (99%)	151 (82%)	18 (10%)	14 (8%)	1	5
55	M9	186/188 (99%)	159 (86%)	23 (12%)	4 (2%)	5	26
55	m9	186/188 (99%)	165 (89%)	20 (11%)	1 (0%)	25	56
56	N0	170/172 (99%)	149 (88%)	16 (9%)	5 (3%)	3	22
56	n0	170/172 (99%)	150 (88%)	17 (10%)	3 (2%)	7	30
57	N1	157/159 (99%)	133 (85%)	16 (10%)	8 (5%)	1	11
57	n1	157/159 (99%)	132 (84%)	21 (13%)	4 (2%)	4	24
58	N2	98/100 (98%)	70 (71%)	23 (24%)	5 (5%)	1	11
58	n2	96/100 (96%)	82 (85%)	10 (10%)	4 (4%)	2	15
59	N3	134/136 (98%)	118 (88%)	14 (10%)	2 (2%)	8	33
59	n3	134/136 (98%)	120 (90%)	9 (7%)	5 (4%)	2	17
60	N4	96/135 (71%)	73 (76%)	17 (18%)	6 (6%)	1	8
60	n4	133/135 (98%)	103 (77%)	19 (14%)	11 (8%)	0	5
61	N5	119/121 (98%)	99 (83%)	14 (12%)	6 (5%)	1	12
61	n5	118/121 (98%)	103 (87%)	9 (8%)	6 (5%)	1	11
62	N6	124/126 (98%)	100 (81%)	19 (15%)	5 (4%)	2	16
62	n6	124/126 (98%)	108 (87%)	7 (6%)	9 (7%)	1	6
63	N7	133/135 (98%)	109 (82%)	16 (12%)	8 (6%)	1	9
63	n7	133/135 (98%)	105 (79%)	16 (12%)	12 (9%)	0	4
64	N8	146/148 (99%)	109 (75%)	28 (19%)	9 (6%)	1	9
64	n8	146/148 (99%)	114 (78%)	22 (15%)	10 (7%)	1	7
65	N9	56/58 (97%)	44 (79%)	10 (18%)	2 (4%)	3	18
65	n9	56/58 (97%)	37 (66%)	11 (20%)	8 (14%)	0	1
66	O0	95/100 (95%)	85 (90%)	8 (8%)	2 (2%)	5	27
66	o0	98/100 (98%)	87 (89%)	9 (9%)	2 (2%)	6	28
67	O1	107/109 (98%)	93 (87%)	9 (8%)	5 (5%)	2	13
67	o1	107/109 (98%)	91 (85%)	11 (10%)	5 (5%)	2	13
68	O2	125/127 (98%)	94 (75%)	22 (18%)	9 (7%)	1	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
68	o2	125/127 (98%)	97 (78%)	22 (18%)	6 (5%)	2	12
69	O3	104/106 (98%)	94 (90%)	7 (7%)	3 (3%)	3	22
69	o3	104/106 (98%)	92 (88%)	6 (6%)	6 (6%)	1	9
70	O4	110/112 (98%)	94 (86%)	12 (11%)	4 (4%)	3	18
70	o4	110/112 (98%)	91 (83%)	16 (14%)	3 (3%)	4	22
71	O5	117/119 (98%)	98 (84%)	11 (9%)	8 (7%)	1	7
71	o5	117/119 (98%)	100 (86%)	13 (11%)	4 (3%)	3	19
72	O6	97/99 (98%)	71 (73%)	16 (16%)	10 (10%)	0	2
72	o6	97/99 (98%)	75 (77%)	14 (14%)	8 (8%)	1	5
73	O7	85/87 (98%)	67 (79%)	17 (20%)	1 (1%)	11	38
73	o7	85/87 (98%)	70 (82%)	12 (14%)	3 (4%)	3	19
74	O8	75/77 (97%)	61 (81%)	12 (16%)	2 (3%)	4	22
74	o8	75/77 (97%)	60 (80%)	9 (12%)	6 (8%)	1	5
75	O9	48/50 (96%)	39 (81%)	8 (17%)	1 (2%)	5	27
75	o9	48/50 (96%)	41 (85%)	7 (15%)	0	100	100
76	Q0	50/52 (96%)	40 (80%)	8 (16%)	2 (4%)	2	16
76	q0	50/52 (96%)	41 (82%)	8 (16%)	1 (2%)	6	28
77	Q1	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
77	q1	23/25 (92%)	19 (83%)	3 (13%)	1 (4%)	2	14
78	Q2	103/105 (98%)	79 (77%)	19 (18%)	5 (5%)	2	12
78	q2	103/105 (98%)	90 (87%)	8 (8%)	5 (5%)	2	12
79	Q3	89/91 (98%)	76 (85%)	7 (8%)	6 (7%)	1	7
79	q3	89/91 (98%)	78 (88%)	8 (9%)	3 (3%)	3	19
81	c0	82/96 (85%)	63 (77%)	11 (13%)	8 (10%)	0	3
82	sM	61/104 (59%)	38 (62%)	15 (25%)	8 (13%)	0	1
84	p0	139/219 (64%)	115 (83%)	17 (12%)	7 (5%)	1	12
All	All	22262/22948 (97%)	17987 (81%)	2915 (13%)	1360 (6%)	1	9

All (1360) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	5	ALA

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Mol	Chain	Res	Type
2	S0	30	GLN
2	S0	36	TYR
2	S0	95	ALA
2	S0	158	VAL
2	S0	191	ARG
2	S0	203	PHE
3	S1	49	ASN
3	S1	148	ASN
3	S1	177	GLN
4	S2	107	SER
4	S2	148	LEU
5	S3	62	ASN
5	S3	65	ARG
5	S3	93	ASP
5	S3	211	PRO
5	S3	220	PRO
6	S4	104	ASP
6	S4	245	LYS
7	S5	26	ALA
7	S5	35	GLN
7	S5	39	GLU
7	S5	51	VAL
7	S5	58	LEU
7	S5	101	GLY
7	S5	153	GLY
8	S6	25	ARG
8	S6	154	ARG
8	S6	173	PRO
8	S6	174	LYS
9	S7	5	GLN
9	S7	31	SER
9	S7	32	PRO
9	S7	64	VAL
9	S7	111	LYS
9	S7	112	ARG
9	S7	116	ARG
9	S7	131	PHE
9	S7	133	THR
9	S7	134	GLU
9	S7	155	ASP
10	S8	22	ARG
10	S8	52	ASN

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Mol	Chain	Res	Type
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	30	ARG
13	C1	146	ALA
14	C2	25	GLU
14	C2	89	ILE
14	C2	93	ASP
14	C2	127	GLY
15	C3	28	LEU
15	C3	138	ASN
16	C4	39	ILE
16	C4	50	ALA
16	C4	51	ASP
16	C4	114	ARG
16	C4	124	ASP
17	C5	29	SER
17	C5	54	ALA
17	C5	125	PRO
17	C5	126	VAL
18	C6	40	GLU
18	C6	41	PRO
18	C6	114	ARG
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	115	LEU
19	C7	124	VAL
20	C8	14	ILE
20	C8	28	ILE
20	C8	60	GLU
20	C8	91	ASP
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
21	C9	69	LYS
21	C9	116	ILE
22	D0	118	VAL

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Mol	Chain	Res	Type
23	D1	4	ASP
23	D1	7	GLN
25	D3	3	LYS
25	D3	112	LYS
25	D3	114	LYS
25	D3	138	GLU
26	D4	36	SER
27	D5	39	ALA
27	D5	43	ASP
27	D5	54	VAL
27	D5	71	ILE
27	D5	97	LYS
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
28	D6	86	VAL
29	D7	62	ILE
31	D9	6	VAL
31	D9	8	PHE
32	E0	47	VAL
32	E0	51	ASN
33	E1	84	VAL
33	E1	102	VAL
33	E1	106	TYR
33	E1	128	ALA
33	E1	144	CYS
34	SR	318	ALA
35	SM	52	PRO
35	SM	87	THR
35	SM	140	ASP
39	L2	246	LEU
40	L3	5	LYS
40	L3	140	ASP
40	L3	142	ALA
40	L3	155	ALA
40	L3	174	LYS
40	L3	187	SER
40	L3	347	SER
40	L3	385	LYS
41	L4	4	PRO
41	L4	15	ALA

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Mol	Chain	Res	Type
41	L4	90	PHE
41	L4	130	ALA
41	L4	131	VAL
41	L4	201	GLN
41	L4	232	SER
41	L4	268	ALA
41	L4	311	HIS
41	L4	317	PRO
41	L4	318	LEU
41	L4	320	ASN
41	L4	339	LEU
42	L5	85	ARG
42	L5	93	THR
42	L5	233	ALA
42	L5	234	ASP
42	L5	258	LYS
42	L5	260	PHE
42	L5	276	LYS
44	L7	26	VAL
45	L8	25	PRO
45	L8	31	PRO
45	L8	36	ILE
45	L8	136	LEU
46	L9	50	ASN
47	M0	91	VAL
47	M0	218	ALA
48	M1	8	PRO
48	M1	11	ASP
48	M1	12	LEU
48	M1	74	PRO
48	M1	94	ARG
48	M1	115	LYS
48	M1	173	ASP
49	M3	47	ALA
49	M3	50	PRO
49	M3	129	ASN
49	M3	131	LYS
49	M3	141	ALA
49	M3	166	ALA
50	M4	8	LYS
50	M4	9	ALA
50	M4	36	VAL

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Mol	Chain	Res	Type
50	M4	86	ALA
50	M4	135	LEU
50	M4	136	ALA
51	M5	74	PRO
51	M5	144	ARG
52	M6	111	PRO
53	M7	36	ILE
53	M7	67	ILE
53	M7	182	ILE
54	M8	43	PRO
54	M8	99	THR
57	N1	124	VAL
58	N2	51	GLY
60	N4	64	THR
60	N4	81	PRO
60	N4	86	SER
63	N7	17	ARG
63	N7	35	SER
64	N8	66	ALA
64	N8	76	ASP
64	N8	96	LYS
68	O2	27	ARG
68	O2	69	SER
71	O5	119	LYS
72	O6	33	ALA
72	O6	52	PRO
76	Q0	78	ILE
78	Q2	30	ALA
78	Q2	100	LYS
79	Q3	52	ALA
79	Q3	58	SER
2	s0	4	PRO
2	s0	68	PRO
2	s0	95	ALA
2	s0	158	VAL
2	s0	164	ASN
2	s0	185	ARG
2	s0	186	GLY
2	s0	189	VAL
2	s0	194	PRO
2	s0	206	ASP
3	s1	81	PHE

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Mol	Chain	Res	Type
3	s1	82	ARG
3	s1	106	THR
3	s1	206	PRO
3	s1	223	PHE
4	s2	92	ALA
4	s2	106	ASP
4	s2	163	GLY
4	s2	236	PRO
5	s3	61	GLU
5	s3	115	ILE
5	s3	219	ALA
5	s3	220	PRO
6	s4	94	ALA
6	s4	95	THR
6	s4	104	ASP
6	s4	163	ASP
6	s4	164	LEU
6	s4	195	ILE
6	s4	196	VAL
7	s5	28	PRO
7	s5	36	ALA
7	s5	39	GLU
7	s5	184	PHE
7	s5	204	GLY
8	s6	138	ALA
8	s6	173	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	67	LEU
9	s7	74	GLN
9	s7	131	PHE
9	s7	144	VAL
10	s8	199	LYS
81	c0	23	ALA
81	c0	83	PRO
13	c1	40	LEU
13	c1	114	ALA
13	c1	133	LYS
13	c1	144	ALA
14	c2	87	PRO
14	c2	89	ILE
14	c2	93	ASP

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Mol	Chain	Res	Type
14	c2	101	ALA
14	c2	109	GLU
15	c3	66	ILE
15	c3	108	ASP
15	c3	137	PRO
16	c4	48	VAL
16	c4	126	THR
16	c4	132	ARG
17	c5	7	ALA
17	c5	11	VAL
17	c5	51	SER
17	c5	52	LYS
17	c5	68	PRO
17	c5	125	PRO
17	c5	126	VAL
17	c5	127	ARG
17	c5	131	ALA
18	c6	42	GLU
18	c6	115	THR
18	c6	116	LEU
19	c7	88	VAL
19	c7	99	VAL
19	c7	104	ASN
19	c7	116	LYS
20	c8	91	ASP
20	c8	92	ILE
21	c9	29	GLU
21	c9	34	VAL
22	d0	49	ASN
22	d0	52	LYS
22	d0	97	VAL
22	d0	118	VAL
26	d4	30	PRO
26	d4	33	ALA
26	d4	35	VAL
26	d4	52	LYS
26	d4	68	LYS
27	d5	44	GLN
27	d5	85	LYS
27	d5	104	ALA
28	d6	47	ALA
29	d7	18	LYS

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Mol	Chain	Res	Type
29	d7	60	SER
30	d8	61	ARG
31	d9	6	VAL
32	e0	51	ASN
32	e0	60	PRO
32	e0	61	SER
33	e1	83	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	106	TYR
34	sR	149	ASP
34	sR	165	ASP
34	sR	318	ALA
82	sM	47	ALA
39	l2	96	LEU
39	l2	140	ASN
39	l2	238	ILE
40	l3	140	ASP
40	l3	142	ALA
40	l3	187	SER
40	l3	347	SER
41	l4	15	ALA
41	l4	90	PHE
41	l4	145	ILE
41	l4	157	GLU
41	l4	301	PRO
41	l4	311	HIS
41	l4	329	PRO
42	l5	123	GLU
43	l6	98	VAL
44	l7	158	LYS
45	l8	25	PRO
45	l8	34	PHE
47	m0	25	ALA
47	m0	82	ARG
47	m0	169	LYS
47	m0	174	THR
47	m0	204	GLY
47	m0	219	ALA
48	m1	8	PRO
48	m1	9	MET

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Mol	Chain	Res	Type
48	m1	10	ARG
48	m1	94	ARG
48	m1	95	ASN
48	m1	108	GLU
49	m3	47	ALA
49	m3	141	ALA
49	m3	150	PRO
49	m3	152	THR
50	m4	136	ALA
51	m5	55	ALA
51	m5	76	PRO
51	m5	183	THR
51	m5	184	LYS
52	m6	16	VAL
52	m6	110	PRO
54	m8	99	THR
54	m8	112	ALA
57	n1	135	PRO
59	n3	42	SER
60	n4	26	SER
60	n4	63	ILE
60	n4	76	VAL
60	n4	133	THR
61	n5	45	LYS
61	n5	55	ASN
62	n6	31	LEU
62	n6	125	LYS
62	n6	126	LEU
63	n7	7	ALA
63	n7	17	ARG
63	n7	129	TRP
64	n8	47	LYS
65	n9	21	ILE
65	n9	23	LYS
65	n9	25	LYS
66	o0	100	ILE
67	o1	45	GLY
69	o3	60	ARG
69	o3	88	ASN
71	o5	119	LYS
72	o6	3	VAL
72	o6	13	LYS

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Mol	Chain	Res	Type
72	o6	33	ALA
72	o6	34	SER
72	o6	64	SER
72	o6	98	ARG
73	o7	87	SER
74	o8	17	ARG
74	o8	18	ALA
74	o8	19	ASP
74	o8	46	ARG
84	p0	93	LEU
2	S0	39	ASN
2	S0	153	SER
2	S0	195	TRP
3	S1	26	ARG
3	S1	35	PRO
3	S1	58	SER
3	S1	60	ALA
3	S1	62	LYS
3	S1	63	GLY
3	S1	158	SER
3	S1	213	ARG
3	S1	221	PRO
4	S2	35	TRP
4	S2	79	GLU
4	S2	91	ARG
4	S2	106	ASP
4	S2	163	GLY
4	S2	249	ALA
5	S3	216	PRO
6	S4	48	LEU
6	S4	234	PRO
7	S5	43	PHE
7	S5	45	LYS
7	S5	54	LYS
7	S5	127	GLN
8	S6	69	LEU
8	S6	152	ASP
8	S6	153	VAL
9	S7	29	ASN
9	S7	98	ILE
10	S8	51	GLY
10	S8	120	THR

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Mol	Chain	Res	Type
10	S8	199	LYS
11	S9	106	GLU
11	S9	121	SER
11	S9	167	ALA
12	C0	25	LYS
12	C0	94	GLU
14	C2	55	GLY
14	C2	91	VAL
14	C2	101	ALA
15	C3	22	ALA
16	C4	42	VAL
16	C4	125	SER
16	C4	126	THR
17	C5	39	ALA
17	C5	48	GLY
17	C5	52	LYS
17	C5	66	ALA
17	C5	69	GLU
19	C7	23	LYS
19	C7	87	GLU
20	C8	27	LYS
20	C8	61	LEU
20	C8	144	ARG
21	C9	28	LEU
22	D0	117	VAL
23	D1	12	TYR
23	D1	42	GLU
24	D2	66	ASN
24	D2	83	ILE
24	D2	100	GLY
25	D3	70	LYS
25	D3	92	CYS
25	D3	144	ARG
26	D4	5	VAL
26	D4	51	GLU
26	D4	53	ASP
27	D5	44	GLN
28	D6	5	ARG
28	D6	10	ARG
28	D6	46	GLU
28	D6	65	PRO
29	D7	23	THR

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Mol	Chain	Res	Type
29	D7	51	GLN
30	D8	36	THR
31	D9	20	GLN
33	E1	83	LYS
33	E1	98	VAL
33	E1	111	GLU
33	E1	127	GLY
34	SR	51	ASP
34	SR	98	GLU
34	SR	135	THR
34	SR	161	LYS
34	SR	194	GLY
35	SM	47	ALA
35	SM	86	ASN
35	SM	101	ASP
35	SM	102	THR
39	L2	47	GLN
39	L2	92	LYS
39	L2	180	LEU
39	L2	201	GLY
40	L3	221	THR
40	L3	289	ASP
40	L3	290	ASP
40	L3	351	LEU
41	L4	265	GLU
41	L4	293	SER
41	L4	340	GLY
42	L5	137	ASP
42	L5	215	ASP
42	L5	252	ALA
42	L5	293	LEU
42	L5	295	GLY
43	L6	98	VAL
44	L7	24	GLU
44	L7	25	GLN
44	L7	91	GLY
44	L7	160	ARG
45	L8	79	GLN
45	L8	254	ASP
46	L9	74	LEU
46	L9	190	ASP
47	M0	117	GLY

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Mol	Chain	Res	Type
47	M0	194	GLY
47	M0	207	GLU
48	M1	95	ASN
48	M1	111	ASP
48	M1	145	LYS
48	M1	152	HIS
48	M1	165	GLN
48	M1	167	TYR
49	M3	17	HIS
49	M3	76	THR
49	M3	136	GLU
49	M3	164	GLU
49	M3	193	ALA
50	M4	87	ALA
50	M4	99	TRP
51	M5	81	TYR
51	M5	145	ASP
53	M7	3	ARG
53	M7	52	LEU
53	M7	157	VAL
53	M7	164	LYS
56	N0	13	ARG
57	N1	159	PHE
58	N2	11	ILE
59	N3	46	LEU
62	N6	84	LYS
62	N6	92	GLY
67	O1	5	LYS
67	O1	6	ASP
67	O1	83	GLU
68	O2	12	LYS
68	O2	40	SER
69	O3	60	ARG
70	O4	46	ASP
71	O5	35	LYS
71	O5	95	PHE
71	O5	97	ALA
71	O5	112	PRO
72	O6	64	SER
72	O6	77	LEU
72	O6	98	ARG
74	O8	18	ALA

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Mol	Chain	Res	Type
75	O9	4	GLN
78	Q2	17	CYS
78	Q2	33	ALA
79	Q3	7	LYS
2	s0	8	ASP
2	s0	14	ALA
2	s0	92	HIS
2	s0	94	GLY
2	s0	127	ARG
3	s1	26	ARG
4	s2	91	ARG
5	s3	44	THR
5	s3	179	GLN
5	s3	216	PRO
5	s3	217	ILE
6	s4	12	LEU
6	s4	24	SER
6	s4	57	ASN
6	s4	135	GLY
6	s4	171	ASP
6	s4	243	GLY
7	s5	33	VAL
7	s5	43	PHE
7	s5	100	ASN
7	s5	152	GLY
8	s6	25	ARG
8	s6	126	ASP
8	s6	175	ILE
9	s7	133	THR
9	s7	185	ILE
10	s8	186	GLY
11	s9	118	LEU
11	s9	150	LEU
81	c0	32	HIS
13	c1	56	LYS
14	c2	22	VAL
14	c2	119	SER
14	c2	131	ASP
15	c3	19	SER
15	c3	133	ALA
17	c5	9	LYS
17	c5	14	THR

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Mol	Chain	Res	Type
17	c5	17	TYR
17	c5	49	MET
17	c5	80	MET
17	c5	132	GLY
19	c7	62	GLN
19	c7	63	LYS
20	c8	14	ILE
20	c8	60	GLU
22	d0	15	GLN
22	d0	51	VAL
22	d0	96	PRO
22	d0	119	ALA
23	d1	6	GLY
23	d1	10	GLU
24	d2	56	HIS
24	d2	68	ARG
25	d3	70	LYS
26	d4	4	ALA
26	d4	58	PHE
26	d4	77	ASN
29	d7	38	PRO
30	d8	20	GLY
32	e0	47	VAL
33	e1	79	LYS
33	e1	102	VAL
33	e1	136	LYS
34	sR	53	LYS
34	sR	163	ASP
34	sR	298	GLY
82	sM	42	ALA
82	sM	65	THR
39	l2	24	GLN
39	l2	80	GLU
39	l2	143	GLU
40	l3	22	ALA
40	l3	155	ALA
40	l3	313	HIS
41	l4	56	ALA
41	l4	190	GLY
41	l4	272	VAL
41	l4	305	ALA
41	l4	330	TYR

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Mol	Chain	Res	Type
41	l4	345	GLU
42	l5	155	THR
42	l5	258	LYS
44	l7	163	LEU
44	l7	191	VAL
45	l8	82	LEU
45	l8	121	SER
45	l8	122	LYS
45	l8	123	GLN
45	l8	124	ASP
45	l8	133	LYS
45	l8	237	ILE
46	l9	96	HIS
46	l9	144	ILE
47	m0	6	ALA
47	m0	175	ASN
47	m0	187	ALA
47	m0	206	LEU
48	m1	114	ILE
48	m1	152	HIS
48	m1	167	TYR
49	m3	13	HIS
49	m3	129	ASN
49	m3	134	GLU
54	m8	41	ASP
54	m8	91	ALA
54	m8	113	LYS
54	m8	147	ARG
57	n1	117	ALA
60	n4	10	GLY
60	n4	71	ARG
61	n5	24	LEU
61	n5	44	PRO
62	n6	6	LEU
62	n6	84	LYS
63	n7	16	GLY
63	n7	56	LYS
63	n7	59	ALA
63	n7	125	GLY
63	n7	134	LEU
64	n8	8	THR
64	n8	48	TYR

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Mol	Chain	Res	Type
64	n8	76	ASP
65	n9	18	ARG
66	o0	10	ILE
67	o1	7	VAL
67	o1	83	GLU
68	o2	62	LYS
68	o2	124	GLY
78	q2	52	GLY
79	q3	51	ALA
84	p0	203	ASP
3	S1	54	LEU
3	S1	176	VAL
3	S1	206	PRO
4	S2	39	THR
4	S2	182	PRO
4	S2	248	SER
5	S3	54	ARG
5	S3	195	SER
5	S3	218	LEU
6	S4	12	LEU
6	S4	242	LYS
7	S5	63	GLN
7	S5	150	GLY
8	S6	20	ASP
8	S6	138	ALA
8	S6	148	SER
8	S6	149	LYS
9	S7	30	SER
9	S7	36	ALA
9	S7	129	LEU
9	S7	156	SER
9	S7	158	ASP
9	S7	186	PRO
11	S9	98	ALA
11	S9	100	LYS
12	C0	93	GLN
13	C1	55	ASP
13	C1	153	PHE
14	C2	66	VAL
14	C2	85	LYS
14	C2	106	ILE
14	C2	108	ARG

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Mol	Chain	Res	Type
14	C2	125	ASN
14	C2	130	THR
15	C3	68	GLY
16	C4	40	ALA
17	C5	101	ALA
18	C6	138	PHE
19	C7	84	TYR
21	C9	39	THR
21	C9	50	ALA
22	D0	17	GLN
22	D0	49	ASN
23	D1	15	ARG
28	D6	36	ILE
28	D6	81	ALA
30	D8	20	GLY
33	E1	85	TYR
33	E1	118	ARG
33	E1	145	HIS
34	SR	237	GLN
34	SR	238	ASP
35	SM	17	VAL
35	SM	46	LYS
35	SM	100	THR
35	SM	111	GLY
35	SM	117	LEU
39	L2	143	GLU
39	L2	251	LYS
40	L3	63	PRO
40	L3	302	LYS
41	L4	16	THR
41	L4	140	HIS
41	L4	141	ARG
41	L4	361	HIS
42	L5	22	ARG
42	L5	57	ASN
42	L5	84	PRO
42	L5	111	GLN
42	L5	157	ALA
42	L5	296	GLN
43	L6	97	ASN
44	L7	217	PRO
45	L8	37	GLY

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Mol	Chain	Res	Type
45	L8	39	ALA
45	L8	156	ASP
45	L8	157	VAL
46	L9	42	ASP
46	L9	49	ASN
46	L9	107	ASP
47	M0	145	LYS
48	M1	64	LYS
48	M1	114	ILE
48	M1	117	ASP
48	M1	140	ARG
48	M1	151	SER
49	M3	51	LEU
49	M3	130	GLY
49	M3	134	GLU
49	M3	153	ASP
50	M4	29	ALA
51	M5	94	TYR
51	M5	159	ARG
53	M7	75	GLU
55	M9	53	LYS
55	M9	131	ALA
56	N0	130	GLU
56	N0	166	LYS
56	N0	167	ARG
57	N1	16	GLN
57	N1	123	GLY
58	N2	10	LYS
60	N4	97	LYS
61	N5	44	PRO
61	N5	77	GLU
63	N7	36	HIS
63	N7	102	GLU
64	N8	97	GLU
64	N8	117	ARG
68	O2	70	GLY
69	O3	59	VAL
70	O4	44	CYS
71	O5	69	LEU
71	O5	96	GLU
72	O6	21	THR
72	O6	34	SER

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Mol	Chain	Res	Type
72	O6	95	ALA
74	O8	33	LYS
2	s0	5	ALA
2	s0	10	THR
2	s0	30	GLN
2	s0	103	THR
3	s1	209	ASN
4	s2	155	ALA
4	s2	235	LEU
5	s3	4	LEU
5	s3	76	ARG
5	s3	90	ARG
5	s3	204	ASP
5	s3	221	SER
6	s4	22	LYS
7	s5	56	ALA
7	s5	171	ALA
7	s5	172	ILE
8	s6	131	LYS
8	s6	156	PHE
9	s7	34	LEU
10	s8	36	THR
81	c0	35	ILE
14	c2	26	ASP
14	c2	58	LEU
14	c2	106	ILE
15	c3	140	LYS
16	c4	51	ASP
16	c4	58	TYR
20	c8	27	LYS
20	c8	90	ASN
21	c9	33	TYR
22	d0	17	GLN
23	d1	4	ASP
23	d1	43	GLY
25	d3	8	GLY
26	d4	78	SER
28	d6	8	ASN
28	d6	13	LYS
28	d6	82	ARG
29	d7	62	ILE
30	d8	62	GLU

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Mol	Chain	Res	Type
32	e0	50	VAL
32	e0	54	ARG
33	e1	81	LYS
33	e1	124	PRO
33	e1	131	PHE
34	sR	161	LYS
34	sR	231	MET
34	sR	297	ASP
82	sM	50	ASN
82	sM	83	LYS
39	l2	127	ALA
39	l2	247	ARG
40	l3	129	ALA
41	l4	174	ALA
41	l4	233	LEU
41	l4	321	LYS
41	l4	342	LYS
41	l4	361	HIS
42	l5	106	ALA
45	l8	83	ASP
45	l8	203	VAL
45	l8	206	GLU
46	l9	2	LYS
46	l9	50	ASN
47	m0	74	LYS
47	m0	176	LEU
47	m0	220	GLN
48	m1	115	LYS
49	m3	50	PRO
49	m3	51	LEU
49	m3	135	ALA
50	m4	112	LEU
51	m5	81	TYR
53	m7	66	SER
54	m8	23	ASN
54	m8	108	ALA
56	n0	130	GLU
57	n1	136	ARG
58	n2	44	GLU
59	n3	68	GLU
60	n4	83	THR
60	n4	134	GLN

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Mol	Chain	Res	Type
61	n5	48	SER
62	n6	76	LEU
64	n8	78	LEU
65	n9	39	PHE
67	o1	5	LYS
68	o2	5	PRO
69	o3	59	VAL
71	o5	81	ARG
72	o6	4	LYS
72	o6	67	LYS
74	o8	74	LYS
78	q2	17	CYS
78	q2	78	LYS
84	p0	102	SER
84	p0	196	VAL
2	S0	7	PHE
2	S0	27	ARG
2	S0	49	ASN
2	S0	66	ALA
2	S0	94	GLY
2	S0	103	THR
3	S1	21	VAL
3	S1	154	SER
4	S2	145	GLY
4	S2	150	GLN
5	S3	217	ILE
6	S4	93	ASP
6	S4	195	ILE
9	S7	73	VAL
9	S7	132	PRO
10	S8	152	ILE
11	S9	119	ALA
11	S9	162	SER
12	C0	30	ALA
12	C0	54	TYR
12	C0	64	TYR
14	C2	22	VAL
14	C2	83	GLU
14	C2	87	PRO
14	C2	107	ASP
14	C2	115	VAL
14	C2	117	GLY

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Mol	Chain	Res	Type
14	C2	119	SER
15	C3	3	ARG
16	C4	123	SER
17	C5	80	MET
17	C5	127	ARG
18	C6	32	ASN
18	C6	142	TYR
21	C9	86	ARG
25	D3	41	SER
26	D4	6	THR
27	D5	88	ILE
28	D6	61	GLU
28	D6	64	LEU
28	D6	88	SER
31	D9	25	SER
31	D9	47	ALA
33	E1	87	THR
34	SR	160	GLU
34	SR	163	ASP
35	SM	42	ALA
35	SM	53	ARG
35	SM	116	GLU
39	L2	24	GLN
40	L3	4	ARG
41	L4	5	GLN
41	L4	146	PRO
42	L5	19	PRO
42	L5	20	PHE
42	L5	253	PHE
42	L5	259	LYS
44	L7	129	LEU
44	L7	164	SER
45	L8	32	LYS
45	L8	135	GLY
46	L9	73	SER
47	M0	47	PRO
51	M5	75	VAL
51	M5	181	ASN
53	M7	161	ALA
54	M8	91	ALA
54	M8	162	ALA
55	M9	91	SER

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Mol	Chain	Res	Type
58	N2	50	LEU
59	N3	47	ASN
60	N4	80	ARG
61	N5	45	LYS
61	N5	52	PRO
61	N5	116	PRO
62	N6	91	ASN
63	N7	125	GLY
64	N8	57	GLY
64	N8	91	LEU
66	O0	53	LYS
68	O2	65	PHE
73	O7	87	SER
79	Q3	84	ARG
2	s0	66	ALA
3	s1	147	ALA
3	s1	224	ASP
4	s2	146	THR
4	s2	150	GLN
4	s2	234	PRO
4	s2	238	SER
5	s3	113	LEU
5	s3	180	GLY
5	s3	196	ARG
5	s3	211	PRO
6	s4	32	SER
6	s4	90	ILE
6	s4	168	LYS
7	s5	29	ILE
7	s5	35	GLN
8	s6	152	ASP
8	s6	154	ARG
8	s6	164	LYS
9	s7	15	GLU
9	s7	73	VAL
10	s8	78	ILE
10	s8	101	ILE
11	s9	103	ASP
11	s9	162	SER
81	c0	30	ALA
81	c0	31	LYS
13	c1	121	ASP

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Mol	Chain	Res	Type
14	c2	66	VAL
14	c2	82	PRO
14	c2	85	LYS
15	c3	29	SER
15	c3	43	LYS
16	c4	131	GLY
17	c5	48	GLY
17	c5	69	GLU
17	c5	71	GLU
18	c6	39	VAL
18	c6	113	ASP
21	c9	26	GLY
22	d0	47	GLN
23	d1	42	GLU
26	d4	36	SER
26	d4	128	LYS
29	d7	58	SER
30	d8	33	LEU
31	d9	7	TRP
31	d9	11	PRO
33	e1	100	LEU
33	e1	103	LEU
34	sR	160	GLU
82	sM	46	LYS
82	sM	64	LYS
39	l2	56	ALA
40	l3	83	PRO
40	l3	186	GLY
40	l3	262	TRP
41	l4	5	GLN
41	l4	11	LEU
41	l4	146	PRO
41	l4	265	GLU
41	l4	302	ALA
41	l4	359	LEU
42	l5	260	PHE
43	l6	10	TYR
43	l6	61	ASN
43	l6	172	HIS
44	l7	231	ASN
45	l8	39	ALA
45	l8	69	LEU

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Mol	Chain	Res	Type
45	l8	136	LEU
45	l8	240	ASN
46	l9	190	ASP
53	m7	67	ILE
54	m8	164	ARG
55	m9	155	LEU
56	n0	154	HIS
58	n2	91	ASP
59	n3	16	GLY
60	n4	77	LYS
62	n6	15	ALA
62	n6	64	LYS
63	n7	18	TYR
64	n8	129	PHE
64	n8	138	ILE
65	n9	24	PRO
67	o1	84	ASP
68	o2	65	PHE
68	o2	114	ALA
70	o4	12	PRO
70	o4	79	SER
71	o5	82	ALA
78	q2	38	GLN
79	q3	4	ARG
79	q3	49	ARG
84	p0	33	VAL
3	S1	37	THR
3	S1	130	SER
3	S1	210	ILE
4	S2	47	ALA
4	S2	235	LEU
7	S5	64	VAL
9	S7	74	GLN
10	S8	59	ARG
11	S9	147	MET
13	C1	43	LYS
14	C2	68	GLU
17	C5	17	TYR
23	D1	10	GLU
23	D1	46	ILE
25	D3	131	SER
26	D4	60	PHE

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Mol	Chain	Res	Type
28	D6	8	ASN
31	D9	11	PRO
31	D9	33	LYS
33	E1	100	LEU
33	E1	138	ARG
35	SM	12	VAL
35	SM	139	GLU
39	L2	93	LYS
39	L2	127	ALA
41	L4	345	GLU
42	L5	26	GLY
43	L6	6	ALA
46	L9	118	LEU
47	M0	93	PRO
48	M1	108	GLU
50	M4	6	ILE
50	M4	10	SER
53	M7	85	ALA
53	M7	160	ALA
56	N0	133	ALA
57	N1	125	ALA
57	N1	127	GLN
57	N1	146	ASN
58	N2	22	PRO
63	N7	4	PHE
63	N7	103	GLN
64	N8	24	LYS
64	N8	47	LYS
65	N9	25	LYS
67	O1	84	ASP
68	O2	110	ALA
68	O2	123	LYS
68	O2	127	ALA
69	O3	91	ALA
70	O4	82	ALA
72	O6	3	VAL
78	Q2	34	SER
79	Q3	24	ARG
3	s1	93	GLY
3	s1	117	TRP
5	s3	93	ASP
6	s4	107	GLY

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Mol	Chain	Res	Type
6	s4	157	ASN
7	s5	53	VAL
7	s5	74	ALA
7	s5	126	ASP
9	s7	31	SER
11	s9	126	ARG
81	c0	82	LEU
13	c1	7	VAL
13	c1	76	VAL
13	c1	129	ARG
13	c1	146	ALA
14	c2	40	GLY
14	c2	90	LYS
14	c2	103	LEU
15	c3	22	ALA
15	c3	143	SER
16	c4	114	ARG
17	c5	6	ASN
17	c5	23	GLU
18	c6	97	VAL
19	c7	86	PRO
19	c7	97	ASN
19	c7	105	GLN
19	c7	117	LEU
23	d1	44	ARG
28	d6	24	VAL
28	d6	34	LYS
28	d6	35	ALA
28	d6	58	VAL
28	d6	59	TYR
29	d7	53	ALA
33	e1	84	VAL
82	sM	43	ASP
40	l3	3	HIS
40	l3	23	ALA
40	l3	134	SER
41	l4	220	ARG
41	l4	328	ASN
42	l5	135	VAL
44	l7	121	LYS
44	l7	193	PRO
44	l7	229	PHE

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Mol	Chain	Res	Type
46	l9	189	GLU
47	m0	101	LYS
49	m3	93	ILE
49	m3	101	ARG
51	m5	187	ARG
52	m6	111	PRO
54	m8	4	ASP
54	m8	54	LEU
56	n0	84	ARG
58	n2	48	GLY
60	n4	103	ALA
61	n5	47	ALA
63	n7	70	PRO
64	n8	93	SER
65	n9	11	ASN
65	n9	52	LYS
68	o2	6	HIS
71	o5	40	SER
73	o7	86	ALA
76	q0	78	ILE
77	q1	22	ALA
2	S0	194	PRO
2	S0	205	ARG
4	S2	36	VAL
4	S2	231	ALA
6	S4	77	ARG
6	S4	164	LEU
8	S6	177	ARG
11	S9	150	LEU
11	S9	169	PRO
16	C4	18	ARG
17	C5	11	VAL
23	D1	82	VAL
24	D2	67	GLY
26	D4	47	VAL
29	D7	75	GLU
32	E0	50	VAL
32	E0	53	LYS
41	L4	270	SER
42	L5	75	LEU
42	L5	115	LEU
45	L8	85	ASN

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Mol	Chain	Res	Type
47	M0	148	VAL
47	M0	220	GLN
51	M5	122	ASN
52	M6	16	VAL
54	M8	41	ASP
55	M9	55	VAL
60	N4	76	VAL
62	N6	38	GLU
66	O0	96	GLY
67	O1	7	VAL
71	O5	91	ALA
72	O6	13	LYS
76	Q0	79	GLU
4	s2	121	VAL
6	s4	30	ARG
9	s7	10	SER
10	s8	136	SER
81	c0	3	MET
14	c2	39	ASP
14	c2	115	VAL
15	c3	99	ARG
16	c4	37	GLU
20	c8	18	LEU
21	c9	28	LEU
22	d0	13	GLU
26	d4	132	ARG
28	d6	20	PRO
30	d8	6	PRO
33	e1	112	GLY
33	e1	148	TYR
34	sR	146	GLY
34	sR	237	GLN
40	l3	224	HIS
40	l3	333	LYS
41	l4	313	LEU
43	l6	131	LYS
45	l8	239	GLY
46	l9	167	VAL
46	l9	175	PHE
48	m1	12	LEU
48	m1	153	LYS
54	m8	155	MET

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Mol	Chain	Res	Type
57	n1	121	ALA
58	n2	45	GLY
63	n7	124	ALA
69	o3	19	SER
73	o7	85	LYS
84	p0	13	ALA
3	S1	48	VAL
10	S8	50	GLY
12	C0	92	ILE
14	C2	75	VAL
27	D5	41	ILE
40	L3	317	ILE
44	L7	178	ILE
45	L8	75	ILE
57	N1	155	PRO
61	N5	62	VAL
62	N6	101	PRO
63	N7	16	GLY
65	N9	21	ILE
70	O4	45	GLY
2	s0	44	GLY
2	s0	98	ILE
6	s4	83	PRO
7	s5	153	GLY
9	s7	8	ILE
13	c1	119	VAL
15	c3	60	VAL
20	c8	4	VAL
22	d0	100	VAL
32	e0	45	VAL
40	l3	141	GLY
40	l3	286	GLY
44	l7	178	ILE
78	q2	31	GLY
2	S0	97	PRO
6	S4	193	GLY
6	S4	233	LYS
6	S4	260	GLY
7	S5	33	VAL
9	S7	125	ILE
16	C4	75	GLY
20	C8	76	PRO

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Mol	Chain	Res	Type
41	L4	328	ASN
45	L8	163	VAL
54	M8	97	PRO
2	s0	69	ASN
4	s2	182	PRO
14	c2	63	VAL
14	c2	91	VAL
26	d4	29	HIS
28	d6	84	VAL
34	sR	105	GLY
47	m0	53	VAL
49	m3	61	PRO
54	m8	43	PRO
54	m8	84	VAL
64	n8	28	HIS
70	o4	78	GLY
6	S4	196	VAL
23	D1	6	GLY
39	L2	166	ILE
45	L8	30	THR
4	s2	149	GLY
8	s6	70	PRO
10	s8	84	HIS
18	c6	40	GLU
18	c6	78	VAL
42	l5	125	VAL
59	n3	18	PRO
59	n3	41	GLY
60	n4	132	GLY
74	o8	37	PRO
13	C1	113	PRO
13	C1	130	PRO
22	D0	106	ILE
25	D3	96	VAL
35	SM	39	PRO
40	L3	151	ILE
4	s2	233	GLN
9	s7	13	PRO
21	c9	3	GLY
33	e1	127	GLY
39	l2	15	ILE
62	n6	50	ILE

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Mol	Chain	Res	Type
64	n8	56	VAL
69	o3	98	VAL
84	p0	100	ILE
9	S7	144	VAL
26	D4	95	GLY
42	L5	202	GLY
47	M0	149	VAL
79	Q3	50	GLY
11	s9	168	ARG
15	c3	98	VAL
25	d3	119	GLY
63	n7	103	GLN
25	D3	64	PRO
69	o3	104	PRO

5.3.2 Protein sidechains [i](#)

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	164/173 (95%)	124 (76%)	40 (24%)	0	2
2	s0	165/173 (95%)	126 (76%)	39 (24%)	0	3
3	S1	191/192 (100%)	153 (80%)	38 (20%)	1	5
3	s1	192/192 (100%)	149 (78%)	43 (22%)	1	3
4	S2	176/176 (100%)	133 (76%)	43 (24%)	0	2
4	s2	176/176 (100%)	129 (73%)	47 (27%)	0	2
5	S3	182/182 (100%)	142 (78%)	40 (22%)	1	3
5	s3	182/182 (100%)	146 (80%)	36 (20%)	1	5
6	S4	221/221 (100%)	172 (78%)	49 (22%)	1	3
6	s4	221/221 (100%)	172 (78%)	49 (22%)	1	3
7	S5	173/173 (100%)	143 (83%)	30 (17%)	1	7
7	s5	173/173 (100%)	137 (79%)	36 (21%)	1	4
8	S6	188/193 (97%)	147 (78%)	41 (22%)	1	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	s6	187/193 (97%)	147 (79%)	40 (21%)	1	4
9	S7	165/166 (99%)	132 (80%)	33 (20%)	1	5
9	s7	165/166 (99%)	126 (76%)	39 (24%)	0	3
10	S8	150/160 (94%)	124 (83%)	26 (17%)	1	7
10	s8	150/160 (94%)	124 (83%)	26 (17%)	1	7
11	S9	158/158 (100%)	123 (78%)	35 (22%)	1	3
11	s9	158/158 (100%)	123 (78%)	35 (22%)	1	3
12	C0	77/89 (86%)	61 (79%)	16 (21%)	1	4
13	C1	129/136 (95%)	110 (85%)	19 (15%)	2	11
13	c1	129/136 (95%)	100 (78%)	29 (22%)	1	3
14	C2	88/100 (88%)	62 (70%)	26 (30%)	0	1
14	c2	88/100 (88%)	67 (76%)	21 (24%)	0	3
15	C3	127/127 (100%)	96 (76%)	31 (24%)	0	2
15	c3	127/127 (100%)	100 (79%)	27 (21%)	1	4
16	C4	81/97 (84%)	58 (72%)	23 (28%)	0	1
16	c4	97/97 (100%)	63 (65%)	34 (35%)	0	1
17	C5	101/111 (91%)	78 (77%)	23 (23%)	0	3
17	c5	103/111 (93%)	87 (84%)	16 (16%)	2	10
18	C6	117/118 (99%)	93 (80%)	24 (20%)	1	4
18	c6	118/118 (100%)	92 (78%)	26 (22%)	1	3
19	C7	94/113 (83%)	74 (79%)	20 (21%)	1	4
19	c7	92/113 (81%)	75 (82%)	17 (18%)	1	6
20	C8	128/128 (100%)	93 (73%)	35 (27%)	0	1
20	c8	128/128 (100%)	101 (79%)	27 (21%)	1	4
21	C9	115/115 (100%)	83 (72%)	32 (28%)	0	1
21	c9	115/115 (100%)	94 (82%)	21 (18%)	1	6
22	D0	100/103 (97%)	73 (73%)	27 (27%)	0	1
22	d0	103/103 (100%)	70 (68%)	33 (32%)	0	1
23	D1	74/74 (100%)	58 (78%)	16 (22%)	1	3
23	d1	74/74 (100%)	60 (81%)	14 (19%)	1	6
24	D2	110/110 (100%)	84 (76%)	26 (24%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	d2	110/110 (100%)	89 (81%)	21 (19%)	1	5
25	D3	119/119 (100%)	93 (78%)	26 (22%)	1	3
25	d3	119/119 (100%)	95 (80%)	24 (20%)	1	4
26	D4	112/112 (100%)	91 (81%)	21 (19%)	1	6
26	d4	112/112 (100%)	85 (76%)	27 (24%)	0	3
27	D5	61/61 (100%)	43 (70%)	18 (30%)	0	1
27	d5	61/61 (100%)	49 (80%)	12 (20%)	1	5
28	D6	83/83 (100%)	64 (77%)	19 (23%)	0	3
28	d6	83/83 (100%)	68 (82%)	15 (18%)	1	6
29	D7	70/70 (100%)	60 (86%)	10 (14%)	2	12
29	d7	70/70 (100%)	63 (90%)	7 (10%)	6	23
30	D8	56/56 (100%)	43 (77%)	13 (23%)	0	3
30	d8	56/56 (100%)	40 (71%)	16 (29%)	0	1
31	D9	47/47 (100%)	34 (72%)	13 (28%)	0	1
31	d9	47/47 (100%)	39 (83%)	8 (17%)	1	8
32	E0	51/53 (96%)	45 (88%)	6 (12%)	4	17
32	e0	53/53 (100%)	36 (68%)	17 (32%)	0	1
33	E1	62/66 (94%)	46 (74%)	16 (26%)	0	2
33	e1	66/66 (100%)	50 (76%)	16 (24%)	0	2
34	SR	259/261 (99%)	220 (85%)	39 (15%)	2	10
34	sR	260/261 (100%)	229 (88%)	31 (12%)	4	17
35	SM	97/107 (91%)	76 (78%)	21 (22%)	1	3
39	L2	193/194 (100%)	152 (79%)	41 (21%)	1	4
39	l2	192/194 (99%)	148 (77%)	44 (23%)	0	3
40	L3	319/322 (99%)	248 (78%)	71 (22%)	1	3
40	l3	321/322 (100%)	246 (77%)	75 (23%)	0	3
41	L4	288/288 (100%)	222 (77%)	66 (23%)	0	3
41	l4	288/288 (100%)	219 (76%)	69 (24%)	0	3
42	L5	244/244 (100%)	195 (80%)	49 (20%)	1	4
42	l5	243/244 (100%)	181 (74%)	62 (26%)	0	2
43	L6	134/152 (88%)	108 (81%)	26 (19%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
43	l6	135/152 (89%)	107 (79%)	28 (21%)	1	4
44	L7	186/187 (100%)	151 (81%)	35 (19%)	1	6
44	l7	187/187 (100%)	147 (79%)	40 (21%)	1	4
45	L8	187/191 (98%)	156 (83%)	31 (17%)	2	8
45	l8	177/191 (93%)	139 (78%)	38 (22%)	1	4
46	L9	171/171 (100%)	124 (72%)	47 (28%)	0	1
46	l9	171/171 (100%)	126 (74%)	45 (26%)	0	2
47	M0	177/186 (95%)	144 (81%)	33 (19%)	1	6
47	m0	179/186 (96%)	135 (75%)	44 (25%)	0	2
48	M1	147/147 (100%)	112 (76%)	35 (24%)	0	3
48	m1	147/147 (100%)	116 (79%)	31 (21%)	1	4
49	M3	154/154 (100%)	119 (77%)	35 (23%)	0	3
49	m3	154/154 (100%)	120 (78%)	34 (22%)	1	3
50	M4	107/108 (99%)	79 (74%)	28 (26%)	0	2
50	m4	108/108 (100%)	80 (74%)	28 (26%)	0	2
51	M5	175/175 (100%)	142 (81%)	33 (19%)	1	6
51	m5	175/175 (100%)	136 (78%)	39 (22%)	1	3
52	M6	160/160 (100%)	134 (84%)	26 (16%)	2	9
52	m6	160/160 (100%)	128 (80%)	32 (20%)	1	5
53	M7	140/145 (97%)	104 (74%)	36 (26%)	0	2
53	m7	125/145 (86%)	85 (68%)	40 (32%)	0	1
54	M8	150/150 (100%)	120 (80%)	30 (20%)	1	5
54	m8	150/150 (100%)	116 (77%)	34 (23%)	0	3
55	M9	153/153 (100%)	120 (78%)	33 (22%)	1	3
55	m9	153/153 (100%)	119 (78%)	34 (22%)	1	3
56	N0	156/156 (100%)	124 (80%)	32 (20%)	1	4
56	n0	156/156 (100%)	122 (78%)	34 (22%)	1	3
57	N1	136/136 (100%)	105 (77%)	31 (23%)	0	3
57	n1	136/136 (100%)	107 (79%)	29 (21%)	1	4
58	N2	87/87 (100%)	72 (83%)	15 (17%)	1	8
58	n2	85/87 (98%)	67 (79%)	18 (21%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
59	N3	104/104 (100%)	82 (79%)	22 (21%)	1	4
59	n3	104/104 (100%)	85 (82%)	19 (18%)	1	6
60	N4	57/114 (50%)	49 (86%)	8 (14%)	3	13
60	n4	100/114 (88%)	82 (82%)	18 (18%)	1	7
61	N5	104/105 (99%)	77 (74%)	27 (26%)	0	2
61	n5	104/105 (99%)	79 (76%)	25 (24%)	0	3
62	N6	109/109 (100%)	85 (78%)	24 (22%)	1	3
62	n6	109/109 (100%)	81 (74%)	28 (26%)	0	2
63	N7	115/115 (100%)	92 (80%)	23 (20%)	1	5
63	n7	115/115 (100%)	87 (76%)	28 (24%)	0	2
64	N8	118/118 (100%)	89 (75%)	29 (25%)	0	2
64	n8	118/118 (100%)	94 (80%)	24 (20%)	1	4
65	N9	46/46 (100%)	34 (74%)	12 (26%)	0	2
65	n9	46/46 (100%)	32 (70%)	14 (30%)	0	1
66	O0	81/84 (96%)	67 (83%)	14 (17%)	1	7
66	o0	84/84 (100%)	67 (80%)	17 (20%)	1	4
67	O1	92/96 (96%)	65 (71%)	27 (29%)	0	1
67	o1	94/96 (98%)	65 (69%)	29 (31%)	0	1
68	O2	109/109 (100%)	80 (73%)	29 (27%)	0	2
68	o2	109/109 (100%)	88 (81%)	21 (19%)	1	5
69	O3	90/90 (100%)	73 (81%)	17 (19%)	1	6
69	o3	90/90 (100%)	76 (84%)	14 (16%)	2	10
70	O4	95/95 (100%)	76 (80%)	19 (20%)	1	5
70	o4	95/95 (100%)	79 (83%)	16 (17%)	1	8
71	O5	104/104 (100%)	77 (74%)	27 (26%)	0	2
71	o5	103/104 (99%)	79 (77%)	24 (23%)	0	3
72	O6	81/81 (100%)	56 (69%)	25 (31%)	0	1
72	o6	80/81 (99%)	56 (70%)	24 (30%)	0	1
73	O7	70/70 (100%)	52 (74%)	18 (26%)	0	2
73	o7	70/70 (100%)	53 (76%)	17 (24%)	0	2
74	O8	68/68 (100%)	51 (75%)	17 (25%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
74	o8	67/68 (98%)	48 (72%)	19 (28%)	0	1
75	O9	45/45 (100%)	34 (76%)	11 (24%)	0	2
75	o9	45/45 (100%)	39 (87%)	6 (13%)	3	14
76	Q0	47/47 (100%)	36 (77%)	11 (23%)	0	3
76	q0	47/47 (100%)	33 (70%)	14 (30%)	0	1
77	Q1	23/23 (100%)	12 (52%)	11 (48%)	0	0
77	q1	23/23 (100%)	15 (65%)	8 (35%)	0	1
78	Q2	90/90 (100%)	63 (70%)	27 (30%)	0	1
78	q2	90/90 (100%)	67 (74%)	23 (26%)	0	2
79	Q3	71/71 (100%)	61 (86%)	10 (14%)	3	13
79	q3	71/71 (100%)	51 (72%)	20 (28%)	0	1
81	c0	73/78 (94%)	63 (86%)	10 (14%)	3	13
82	sM	54/54 (100%)	36 (67%)	18 (33%)	0	1
84	p0	105/186 (56%)	83 (79%)	22 (21%)	1	4
All	All	18727/19202 (98%)	14586 (78%)	4141 (22%)	1	3

All (4141) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	7	PHE
2	S0	9	LEU
2	S0	27	ARG
2	S0	32	HIS
2	S0	37	VAL
2	S0	43	ASP
2	S0	45	VAL
2	S0	49	ASN
2	S0	50	VAL
2	S0	52	LYS
2	S0	57	LEU
2	S0	62	ARG
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG

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Mol	Chain	Res	Type
2	S0	103	THR
2	S0	111	ILE
2	S0	117	GLU
2	S0	119	ARG
2	S0	123	VAL
2	S0	131	GLN
2	S0	135	GLU
2	S0	139	VAL
2	S0	154	GLU
2	S0	156	VAL
2	S0	157	ASP
2	S0	165	ARG
2	S0	168	HIS
2	S0	170	ILE
2	S0	172	LEU
2	S0	184	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	197	ILE
2	S0	198	MET
2	S0	200	ASP
3	S1	21	VAL
3	S1	25	THR
3	S1	29	TRP
3	S1	46	THR
3	S1	61	LEU
3	S1	66	VAL
3	S1	70	LEU
3	S1	77	GLU
3	S1	78	ASP
3	S1	80	SER
3	S1	81	PHE
3	S1	85	LYS
3	S1	91	VAL
3	S1	96	LEU
3	S1	97	LEU
3	S1	105	PHE
3	S1	112	SER
3	S1	117	TRP
3	S1	124	ASN
3	S1	135	LEU

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Mol	Chain	Res	Type
3	S1	146	GLN
3	S1	149	GLN
3	S1	150	VAL
3	S1	152	ARG
3	S1	154	SER
3	S1	170	GLU
3	S1	174	LYS
3	S1	176	VAL
3	S1	177	GLN
3	S1	180	THR
3	S1	181	LEU
3	S1	191	GLU
3	S1	193	ILE
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	219	LYS
4	S2	39	THR
4	S2	41	LEU
4	S2	50	ILE
4	S2	53	ILE
4	S2	54	GLU
4	S2	69	ILE
4	S2	70	ASP
4	S2	72	LEU
4	S2	73	LEU
4	S2	77	GLN
4	S2	80	VAL
4	S2	87	GLN
4	S2	88	LYS
4	S2	90	THR
4	S2	91	ARG
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	117	THR
4	S2	119	LYS
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE

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Mol	Chain	Res	Type
4	S2	140	ARG
4	S2	141	ARG
4	S2	146	THR
4	S2	148	LEU
4	S2	159	THR
4	S2	166	THR
4	S2	170	ILE
4	S2	182	PRO
4	S2	185	LYS
4	S2	186	LYS
4	S2	203	LYS
4	S2	208	GLU
4	S2	218	ILE
4	S2	221	THR
4	S2	226	THR
4	S2	229	LEU
4	S2	237	VAL
4	S2	245	ASP
4	S2	246	GLU
5	S3	4	LEU
5	S3	7	LYS
5	S3	10	LYS
5	S3	21	LEU
5	S3	23	GLU
5	S3	65	ARG
5	S3	66	ILE
5	S3	84	ILE
5	S3	89	GLU
5	S3	91	VAL
5	S3	92	GLN
5	S3	94	ARG
5	S3	103	GLU
5	S3	105	MET
5	S3	115	ILE
5	S3	117	ARG
5	S3	127	MET
5	S3	129	SER
5	S3	134	CYS
5	S3	137	VAL
5	S3	142	LEU
5	S3	151	LYS
5	S3	157	LEU

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Mol	Chain	Res	Type
5	S3	158	ILE
5	S3	164	VAL
5	S3	168	ILE
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	182	LEU
5	S3	187	LYS
5	S3	190	ARG
5	S3	195	SER
5	S3	202	LEU
5	S3	207	THR
5	S3	212	LYS
5	S3	217	ILE
5	S3	218	LEU
5	S3	222	VAL
6	S4	6	LYS
6	S4	7	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	23	LEU
6	S4	37	LYS
6	S4	38	LEU
6	S4	39	ARG
6	S4	42	LEU
6	S4	45	ILE
6	S4	49	ARG
6	S4	62	LYS
6	S4	65	LEU
6	S4	67	GLN
6	S4	70	VAL
6	S4	77	ARG
6	S4	78	THR
6	S4	92	LEU
6	S4	115	THR
6	S4	116	ASP
6	S4	126	VAL
6	S4	128	LYS
6	S4	129	VAL
6	S4	131	LEU
6	S4	133	LYS

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Mol	Chain	Res	Type
6	S4	140	VAL
6	S4	146	THR
6	S4	160	VAL
6	S4	162	ILE
6	S4	164	LEU
6	S4	180	LEU
6	S4	181	VAL
6	S4	187	ARG
6	S4	192	ILE
6	S4	197	HIS
6	S4	206	ASP
6	S4	210	ILE
6	S4	211	LYS
6	S4	213	SER
6	S4	214	LEU
6	S4	215	ASP
6	S4	219	VAL
6	S4	220	THR
6	S4	227	VAL
6	S4	236	ILE
6	S4	238	LEU
6	S4	240	LYS
6	S4	242	LYS
6	S4	259	GLN
7	S5	23	VAL
7	S5	24	VAL
7	S5	25	LEU
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	49	GLU
7	S5	51	VAL
7	S5	53	VAL
7	S5	63	GLN
7	S5	89	ILE
7	S5	93	LEU
7	S5	94	THR
7	S5	98	MET
7	S5	114	ILE
7	S5	119	ASP
7	S5	147	THR
7	S5	149	VAL

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Mol	Chain	Res	Type
7	S5	156	ARG
7	S5	160	VAL
7	S5	162	VAL
7	S5	170	GLN
7	S5	186	ASN
7	S5	190	ILE
7	S5	194	LEU
7	S5	203	LYS
7	S5	216	GLU
7	S5	219	ARG
7	S5	223	SER
7	S5	225	ARG
8	S6	13	GLN
8	S6	15	THR
8	S6	21	GLU
8	S6	25	ARG
8	S6	31	ARG
8	S6	44	GLU
8	S6	58	LYS
8	S6	59	GLN
8	S6	67	VAL
8	S6	69	LEU
8	S6	76	LEU
8	S6	78	THR
8	S6	79	LYS
8	S6	81	VAL
8	S6	82	SER
8	S6	89	ASP
8	S6	105	ASP
8	S6	109	LEU
8	S6	120	GLU
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL
8	S6	132	ARG
8	S6	133	LEU
8	S6	137	ARG
8	S6	143	LYS
8	S6	150	GLU
8	S6	154	ARG
8	S6	155	ASP

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Mol	Chain	Res	Type
8	S6	157	VAL
8	S6	158	ILE
8	S6	169	TYR
8	S6	170	THR
8	S6	175	ILE
8	S6	177	ARG
8	S6	179	VAL
8	S6	201	GLN
8	S6	212	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	9	LEU
9	S7	14	THR
9	S7	37	GLU
9	S7	38	LEU
9	S7	46	ILE
9	S7	50	ASP
9	S7	51	VAL
9	S7	55	LYS
9	S7	60	ILE
9	S7	67	LEU
9	S7	70	PHE
9	S7	71	HIS
9	S7	76	LYS
9	S7	77	LEU
9	S7	80	GLU
9	S7	87	ASP
9	S7	91	ILE
9	S7	95	GLU
9	S7	97	ARG
9	S7	104	ARG
9	S7	105	THR
9	S7	114	ARG
9	S7	116	ARG
9	S7	126	LEU
9	S7	143	LEU
9	S7	144	VAL
9	S7	150	GLN
9	S7	159	VAL
9	S7	166	LEU
9	S7	167	GLU
9	S7	168	SER

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Mol	Chain	Res	Type
9	S7	181	ILE
9	S7	185	ILE
10	S8	3	ILE
10	S8	8	ARG
10	S8	14	THR
10	S8	21	PHE
10	S8	29	LEU
10	S8	32	GLN
10	S8	38	ILE
10	S8	56	ARG
10	S8	58	LEU
10	S8	60	ILE
10	S8	66	SER
10	S8	72	ILE
10	S8	73	SER
10	S8	74	LYS
10	S8	93	THR
10	S8	123	LYS
10	S8	138	ASN
10	S8	140	GLU
10	S8	151	LYS
10	S8	152	ILE
10	S8	164	ARG
10	S8	185	GLU
10	S8	187	GLU
10	S8	193	LEU
10	S8	196	LEU
10	S8	199	LYS
11	S9	3	ARG
11	S9	6	ARG
11	S9	7	THR
11	S9	13	SER
11	S9	28	LEU
11	S9	39	LYS
11	S9	46	SER
11	S9	49	LEU
11	S9	60	LEU
11	S9	78	ARG
11	S9	79	ARG
11	S9	82	ARG
11	S9	89	ASP
11	S9	92	LYS

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Mol	Chain	Res	Type
11	S9	93	LEU
11	S9	96	VAL
11	S9	97	LEU
11	S9	99	LEU
11	S9	101	VAL
11	S9	105	LEU
11	S9	106	GLU
11	S9	109	LEU
11	S9	110	GLN
11	S9	118	LEU
11	S9	120	LYS
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	141	VAL
11	S9	143	ILE
11	S9	149	ARG
11	S9	157	ASP
11	S9	161	THR
11	S9	171	ARG
11	S9	182	GLU
12	C0	1	MET
12	C0	8	ARG
12	C0	20	VAL
12	C0	22	VAL
12	C0	27	PHE
12	C0	28	ASN
12	C0	32	HIS
12	C0	46	LEU
12	C0	51	SER
12	C0	55	VAL
12	C0	56	LYS
12	C0	71	GLU
12	C0	76	LEU
12	C0	78	GLU
12	C0	80	LEU
12	C0	82	LEU
13	C1	4	GLU
13	C1	8	GLN
13	C1	21	ASN
13	C1	29	LYS
13	C1	40	LEU

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Mol	Chain	Res	Type
13	C1	43	LYS
13	C1	44	THR
13	C1	54	ILE
13	C1	67	ARG
13	C1	74	THR
13	C1	80	MET
13	C1	94	ILE
13	C1	102	LYS
13	C1	109	VAL
13	C1	123	VAL
13	C1	125	VAL
13	C1	128	CYS
13	C1	131	ILE
13	C1	143	SER
14	C2	25	GLU
14	C2	28	LEU
14	C2	33	ARG
14	C2	36	LEU
14	C2	37	VAL
14	C2	43	ARG
14	C2	45	LEU
14	C2	50	LYS
14	C2	52	LEU
14	C2	58	LEU
14	C2	61	VAL
14	C2	63	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	83	GLU
14	C2	89	ILE
14	C2	97	LEU
14	C2	103	LEU
14	C2	116	VAL
14	C2	119	SER
14	C2	121	VAL
14	C2	129	GLU
14	C2	132	GLU
14	C2	138	GLU
14	C2	139	HIS
15	C3	3	ARG
15	C3	6	SER

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Mol	Chain	Res	Type
15	C3	11	ILE
15	C3	13	SER
15	C3	14	SER
15	C3	16	ILE
15	C3	21	ASN
15	C3	27	LYS
15	C3	32	SER
15	C3	39	LYS
15	C3	43	LYS
15	C3	45	LEU
15	C3	50	ILE
15	C3	56	ASP
15	C3	64	ARG
15	C3	66	ILE
15	C3	83	GLU
15	C3	84	ILE
15	C3	88	LEU
15	C3	93	LYS
15	C3	102	LEU
15	C3	110	ASP
15	C3	114	ARG
15	C3	115	LEU
15	C3	125	LEU
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
15	C3	143	SER
15	C3	145	THR
15	C3	150	VAL
16	C4	13	VAL
16	C4	14	PHE
16	C4	26	THR
16	C4	29	HIS
16	C4	30	VAL
16	C4	39	ILE
16	C4	43	THR
16	C4	51	ASP
16	C4	52	ARG
16	C4	54	GLU
16	C4	81	VAL
16	C4	89	THR
16	C4	93	THR

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Mol	Chain	Res	Type
16	C4	102	LEU
16	C4	103	ARG
16	C4	107	ARG
16	C4	108	SER
16	C4	123	SER
16	C4	125	SER
16	C4	129	LYS
16	C4	132	ARG
16	C4	136	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	20	VAL
17	C5	22	LEU
17	C5	26	LEU
17	C5	27	GLU
17	C5	28	MET
17	C5	34	VAL
17	C5	35	LYS
17	C5	36	LEU
17	C5	44	ARG
17	C5	50	THR
17	C5	52	LYS
17	C5	69	GLU
17	C5	83	MET
17	C5	84	ILE
17	C5	86	VAL
17	C5	90	ILE
17	C5	94	VAL
17	C5	103	ASN
17	C5	110	GLU
17	C5	121	ILE
17	C5	126	VAL
17	C5	128	HIS
18	C6	4	VAL
18	C6	14	LYS
18	C6	26	LYS
18	C6	29	ILE
18	C6	36	ILE
18	C6	37	THR
18	C6	39	VAL
18	C6	43	ILE
18	C6	53	LEU

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Mol	Chain	Res	Type
18	C6	54	LEU
18	C6	57	LEU
18	C6	66	ARG
18	C6	69	VAL
18	C6	97	VAL
18	C6	98	ASP
18	C6	103	ASN
18	C6	106	LYS
18	C6	109	PHE
18	C6	112	TYR
18	C6	115	THR
18	C6	116	LEU
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
19	C7	6	THR
19	C7	8	THR
19	C7	26	LEU
19	C7	29	GLN
19	C7	30	THR
19	C7	34	LEU
19	C7	38	ILE
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	69	ILE
19	C7	72	LYS
19	C7	77	GLU
19	C7	82	ASP
19	C7	83	GLN
19	C7	88	VAL
19	C7	105	GLN
19	C7	111	LYS
19	C7	113	LEU
19	C7	115	LEU
20	C8	3	LEU
20	C8	4	VAL
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE

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Mol	Chain	Res	Type
20	C8	17	LEU
20	C8	18	LEU
20	C8	25	ASN
20	C8	26	ILE
20	C8	28	ILE
20	C8	34	THR
20	C8	38	VAL
20	C8	40	ARG
20	C8	46	VAL
20	C8	54	LEU
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	77	THR
20	C8	80	LYS
20	C8	81	ILE
20	C8	92	ILE
20	C8	93	THR
20	C8	103	ASN
20	C8	107	SER
20	C8	116	LEU
20	C8	119	ILE
20	C8	132	ARG
20	C8	133	VAL
20	C8	136	GLN
20	C8	138	THR
20	C8	141	THR
20	C8	143	ARG
21	C9	4	VAL
21	C9	6	VAL
21	C9	13	ASP
21	C9	18	TYR
21	C9	22	LEU
21	C9	25	GLN
21	C9	28	LEU
21	C9	29	GLU
21	C9	30	VAL
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	39	THR
21	C9	48	GLN

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Mol	Chain	Res	Type
21	C9	57	ARG
21	C9	61	VAL
21	C9	64	HIS
21	C9	65	ILE
21	C9	67	MET
21	C9	68	ARG
21	C9	70	GLN
21	C9	75	LYS
21	C9	84	LYS
21	C9	86	ARG
21	C9	94	ILE
21	C9	122	ARG
21	C9	125	SER
21	C9	126	GLU
21	C9	131	ASP
21	C9	132	LEU
21	C9	134	ARG
21	C9	144	GLU
22	D0	15	GLN
22	D0	18	GLN
22	D0	20	ILE
22	D0	22	ILE
22	D0	23	ARG
22	D0	30	LYS
22	D0	31	VAL
22	D0	34	LEU
22	D0	35	GLU
22	D0	41	ILE
22	D0	42	VAL
22	D0	47	GLN
22	D0	48	HIS
22	D0	51	VAL
22	D0	57	ARG
22	D0	61	LYS
22	D0	66	SER
22	D0	68	ARG
22	D0	70	THR
22	D0	74	GLU
22	D0	81	THR
22	D0	84	MET
22	D0	89	ARG
22	D0	97	VAL

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Mol	Chain	Res	Type
22	D0	103	ILE
22	D0	108	ILE
22	D0	121	ASN
23	D1	3	ASN
23	D1	5	LYS
23	D1	7	GLN
23	D1	11	LEU
23	D1	25	LYS
23	D1	32	VAL
23	D1	34	ILE
23	D1	38	LYS
23	D1	41	GLU
23	D1	52	THR
23	D1	60	ARG
23	D1	62	ARG
23	D1	68	SER
23	D1	76	ASP
23	D1	78	LEU
23	D1	80	LYS
24	D2	4	SER
24	D2	7	LEU
24	D2	15	ASN
24	D2	23	ARG
24	D2	24	GLN
24	D2	26	LEU
24	D2	27	ILE
24	D2	41	MET
24	D2	42	GLN
24	D2	43	LYS
24	D2	47	ILE
24	D2	53	ILE
24	D2	65	LEU
24	D2	74	VAL
24	D2	76	SER
24	D2	83	ILE
24	D2	87	GLU
24	D2	88	LYS
24	D2	93	LEU
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR

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Mol	Chain	Res	Type
24	D2	119	LYS
24	D2	121	VAL
24	D2	122	SER
25	D3	7	ARG
25	D3	9	LEU
25	D3	26	GLU
25	D3	28	ASN
25	D3	34	LEU
25	D3	40	SER
25	D3	46	SER
25	D3	52	ILE
25	D3	53	VAL
25	D3	66	SER
25	D3	73	ARG
25	D3	78	LYS
25	D3	82	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	96	VAL
25	D3	107	PHE
25	D3	110	LYS
25	D3	114	LYS
25	D3	123	LYS
25	D3	131	SER
25	D3	133	LEU
25	D3	137	LYS
25	D3	138	GLU
25	D3	140	LYS
25	D3	144	ARG
26	D4	17	LEU
26	D4	35	VAL
26	D4	47	VAL
26	D4	51	GLU
26	D4	57	VAL
26	D4	61	ARG
26	D4	78	SER
26	D4	81	GLU
26	D4	84	LYS
26	D4	88	THR
26	D4	93	ARG
26	D4	96	LEU
26	D4	99	LYS

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Mol	Chain	Res	Type
26	D4	100	VAL
26	D4	101	GLU
26	D4	102	LYS
26	D4	121	THR
26	D4	123	LYS
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
27	D5	38	HIS
27	D5	40	VAL
27	D5	42	LEU
27	D5	49	ARG
27	D5	58	ARG
27	D5	60	VAL
27	D5	62	VAL
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	92	ILE
27	D5	93	SER
27	D5	95	HIS
27	D5	98	GLN
27	D5	100	ILE
28	D6	12	LYS
28	D6	15	ARG
28	D6	36	ILE
28	D6	39	MET
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	50	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL

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Mol	Chain	Res	Type
28	D6	85	ARG
28	D6	86	VAL
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	8	LEU
29	D7	17	ARG
29	D7	20	LYS
29	D7	33	LEU
29	D7	34	ASP
29	D7	44	THR
29	D7	61	THR
29	D7	67	THR
30	D8	13	ILE
30	D8	15	VAL
30	D8	19	THR
30	D8	28	VAL
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	36	THR
30	D8	39	THR
30	D8	49	ARG
30	D8	52	ASP
30	D8	57	MET
30	D8	58	GLU
31	D9	6	VAL
31	D9	8	PHE
31	D9	10	HIS
31	D9	12	ARG
31	D9	19	ARG
31	D9	21	CYS
31	D9	22	ARG
31	D9	23	VAL
31	D9	30	LEU
31	D9	32	ARG
31	D9	36	LEU
31	D9	38	ILE
31	D9	40	ARG
32	E0	20	LYS
32	E0	22	GLU
32	E0	39	LEU

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Mol	Chain	Res	Type
32	E0	42	ARG
32	E0	47	VAL
32	E0	48	THR
33	E1	86	THR
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	98	VAL
33	E1	111	GLU
33	E1	113	LYS
33	E1	117	LEU
33	E1	120	GLU
33	E1	130	VAL
33	E1	137	ASP
33	E1	138	ARG
33	E1	139	LEU
33	E1	149	LYS
33	E1	150	VAL
33	E1	151	ASN
34	SR	6	VAL
34	SR	9	LEU
34	SR	10	ARG
34	SR	16	HIS
34	SR	29	GLN
34	SR	46	LYS
34	SR	52	GLN
34	SR	58	VAL
34	SR	62	LYS
34	SR	66	HIS
34	SR	71	CYS
34	SR	76	ASP
34	SR	89	LEU
34	SR	96	THR
34	SR	112	SER
34	SR	116	ASP
34	SR	117	LYS
34	SR	118	LYS
34	SR	134	TRP
34	SR	136	ILE
34	SR	137	LYS
34	SR	141	LEU
34	SR	144	LEU

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Mol	Chain	Res	Type
34	SR	153	GLN
34	SR	165	ASP
34	SR	184	ASN
34	SR	191	ASP
34	SR	196	ASN
34	SR	211	ILE
34	SR	216	LYS
34	SR	238	ASP
34	SR	248	ASN
34	SR	268	GLN
34	SR	277	GLU
34	SR	291	SER
34	SR	292	LEU
34	SR	300	THR
34	SR	316	MET
34	SR	317	THR
35	SM	27	LYS
35	SM	33	LYS
35	SM	34	LYS
35	SM	46	LYS
35	SM	48	ARG
35	SM	51	ARG
35	SM	61	ILE
35	SM	64	LYS
35	SM	68	ARG
35	SM	69	ARG
35	SM	82	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	96	ARG
35	SM	97	THR
35	SM	100	THR
35	SM	105	LYS
35	SM	134	LEU
35	SM	139	GLU
35	SM	140	ASP
39	L2	10	LYS
39	L2	19	HIS
39	L2	23	ARG
39	L2	32	LEU
39	L2	44	ILE

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Mol	Chain	Res	Type
39	L2	45	VAL
39	L2	46	LYS
39	L2	48	ILE
39	L2	62	VAL
39	L2	74	GLU
39	L2	88	ILE
39	L2	95	SER
39	L2	96	LEU
39	L2	101	VAL
39	L2	104	LEU
39	L2	109	GLU
39	L2	111	THR
39	L2	113	VAL
39	L2	114	SER
39	L2	116	VAL
39	L2	119	LYS
39	L2	130	SER
39	L2	142	ASP
39	L2	143	GLU
39	L2	149	ARG
39	L2	157	VAL
39	L2	158	ILE
39	L2	165	VAL
39	L2	169	ILE
39	L2	177	LYS
39	L2	179	LEU
39	L2	180	LEU
39	L2	181	LYS
39	L2	191	LEU
39	L2	199	THR
39	L2	202	VAL
39	L2	204	MET
39	L2	223	SER
39	L2	225	ILE
39	L2	227	ARG
39	L2	252	THR
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	21	ARG
40	L3	25	ILE
40	L3	37	ARG

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Mol	Chain	Res	Type
40	L3	41	VAL
40	L3	44	THR
40	L3	47	LEU
40	L3	55	THR
40	L3	56	ILE
40	L3	69	LYS
40	L3	70	ARG
40	L3	73	VAL
40	L3	81	THR
40	L3	85	VAL
40	L3	93	VAL
40	L3	103	THR
40	L3	104	THR
40	L3	110	LEU
40	L3	114	VAL
40	L3	121	ASN
40	L3	124	LYS
40	L3	125	SER
40	L3	126	LYS
40	L3	128	LYS
40	L3	134	SER
40	L3	139	GLN
40	L3	146	ARG
40	L3	148	LEU
40	L3	150	ARG
40	L3	156	SER
40	L3	168	LYS
40	L3	169	THR
40	L3	173	GLN
40	L3	178	LEU
40	L3	183	LEU
40	L3	188	ILE
40	L3	192	VAL
40	L3	196	ARG
40	L3	200	GLU
40	L3	202	THR
40	L3	203	VAL
40	L3	205	VAL
40	L3	206	ASP
40	L3	208	VAL
40	L3	215	ILE
40	L3	235	THR

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Mol	Chain	Res	Type
40	L3	236	LYS
40	L3	241	LYS
40	L3	244	ARG
40	L3	246	LEU
40	L3	248	LYS
40	L3	252	ILE
40	L3	260	VAL
40	L3	276	THR
40	L3	291	GLU
40	L3	296	THR
40	L3	305	ILE
40	L3	312	VAL
40	L3	328	ILE
40	L3	335	ILE
40	L3	338	LEU
40	L3	347	SER
40	L3	352	GLU
40	L3	354	VAL
40	L3	364	LYS
40	L3	372	THR
40	L3	379	PHE
40	L3	382	THR
40	L3	385	LYS
41	L4	18	ASN
41	L4	25	VAL
41	L4	37	THR
41	L4	41	SER
41	L4	42	VAL
41	L4	46	LYS
41	L4	55	LYS
41	L4	60	THR
41	L4	69	ARG
41	L4	74	ILE
41	L4	93	MET
41	L4	98	ARG
41	L4	99	MET
41	L4	108	LYS
41	L4	112	LYS
41	L4	133	SER
41	L4	138	ARG
41	L4	145	ILE
41	L4	148	ILE

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Mol	Chain	Res	Type
41	L4	150	LEU
41	L4	152	VAL
41	L4	153	SER
41	L4	156	LEU
41	L4	162	THR
41	L4	172	VAL
41	L4	176	SER
41	L4	177	ASP
41	L4	179	LEU
41	L4	187	LEU
41	L4	193	LYS
41	L4	194	TYR
41	L4	196	ASN
41	L4	198	ARG
41	L4	200	THR
41	L4	206	LEU
41	L4	215	ILE
41	L4	216	VAL
41	L4	220	ARG
41	L4	226	GLU
41	L4	230	VAL
41	L4	233	LEU
41	L4	246	ARG
41	L4	252	GLU
41	L4	258	LEU
41	L4	261	VAL
41	L4	267	VAL
41	L4	283	THR
41	L4	284	SER
41	L4	289	ILE
41	L4	293	SER
41	L4	295	ILE
41	L4	306	THR
41	L4	312	VAL
41	L4	313	LEU
41	L4	324	LEU
41	L4	327	LEU
41	L4	332	LYS
41	L4	333	VAL
41	L4	338	LYS
41	L4	339	LEU
41	L4	343	LYS

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Mol	Chain	Res	Type
41	L4	349	THR
41	L4	350	LYS
41	L4	354	VAL
41	L4	359	LEU
41	L4	362	ASP
42	L5	4	GLN
42	L5	5	LYS
42	L5	10	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	34	LYS
42	L5	41	LYS
42	L5	46	THR
42	L5	62	CYS
42	L5	64	ILE
42	L5	66	SER
42	L5	69	ILE
42	L5	84	PRO
42	L5	89	THR
42	L5	92	LEU
42	L5	93	THR
42	L5	105	ILE
42	L5	110	LEU
42	L5	112	LYS
42	L5	113	LEU
42	L5	115	LEU
42	L5	122	VAL
42	L5	131	LEU
42	L5	132	THR
42	L5	135	VAL
42	L5	137	ASP
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	167	SER
42	L5	176	SER

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Mol	Chain	Res	Type
42	L5	177	GLU
42	L5	189	GLU
42	L5	206	GLN
42	L5	218	ARG
42	L5	222	LEU
42	L5	234	ASP
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	277	LEU
42	L5	293	LEU
43	L6	5	LYS
43	L6	20	LYS
43	L6	21	THR
43	L6	23	LYS
43	L6	30	LEU
43	L6	35	VAL
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	70	LYS
43	L6	71	VAL
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR
43	L6	90	LYS
43	L6	93	VAL
43	L6	98	VAL
43	L6	129	GLU
43	L6	130	ILE
43	L6	134	ARG
43	L6	141	VAL
43	L6	150	LYS
43	L6	152	THR
43	L6	155	LEU
43	L6	160	SER
44	L7	24	GLU
44	L7	25	GLN
44	L7	38	LYS
44	L7	39	GLU

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Mol	Chain	Res	Type
44	L7	46	GLU
44	L7	60	ARG
44	L7	63	ILE
44	L7	82	LYS
44	L7	83	LEU
44	L7	84	VAL
44	L7	87	VAL
44	L7	88	ARG
44	L7	89	ILE
44	L7	92	ILE
44	L7	93	ASN
44	L7	100	ARG
44	L7	101	LYS
44	L7	110	ARG
44	L7	111	ILE
44	L7	120	THR
44	L7	121	LYS
44	L7	124	LEU
44	L7	129	LEU
44	L7	143	THR
44	L7	158	LYS
44	L7	168	ILE
44	L7	179	LEU
44	L7	181	ILE
44	L7	184	LEU
44	L7	189	ILE
44	L7	224	ILE
44	L7	236	ILE
44	L7	239	LEU
44	L7	242	SER
44	L7	244	ASN
45	L8	26	LEU
45	L8	27	THR
45	L8	36	ILE
45	L8	41	GLN
45	L8	47	SER
45	L8	50	VAL
45	L8	63	LYS
45	L8	68	ARG
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR

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Mol	Chain	Res	Type
45	L8	84	ARG
45	L8	92	LYS
45	L8	95	ASN
45	L8	116	VAL
45	L8	132	VAL
45	L8	136	LEU
45	L8	150	LEU
45	L8	156	ASP
45	L8	163	VAL
45	L8	169	LEU
45	L8	180	VAL
45	L8	185	ARG
45	L8	189	LEU
45	L8	190	VAL
45	L8	202	GLU
45	L8	203	VAL
45	L8	204	ARG
45	L8	241	LYS
45	L8	246	MET
45	L8	251	LYS
46	L9	4	ILE
46	L9	5	GLN
46	L9	7	GLU
46	L9	9	GLN
46	L9	16	VAL
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	21	LYS
46	L9	25	VAL
46	L9	33	THR
46	L9	41	ILE
46	L9	48	VAL
46	L9	49	ASN
46	L9	52	LEU
46	L9	65	VAL
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	79	ILE
46	L9	87	LYS
46	L9	90	MET

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Mol	Chain	Res	Type
46	L9	91	ARG
46	L9	92	TYR
46	L9	93	VAL
46	L9	104	VAL
46	L9	115	ARG
46	L9	118	LEU
46	L9	120	ASP
46	L9	132	VAL
46	L9	134	ILE
46	L9	135	GLU
46	L9	139	ASN
46	L9	140	VAL
46	L9	151	VAL
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	170	LYS
46	L9	173	ARG
46	L9	182	SER
46	L9	184	LYS
46	L9	189	GLU
46	L9	190	ASP
47	M0	3	ARG
47	M0	24	ARG
47	M0	26	VAL
47	M0	31	ILE
47	M0	32	ARG
47	M0	33	ILE
47	M0	40	LYS
47	M0	52	LEU
47	M0	57	LEU
47	M0	63	GLU
47	M0	73	ASN
47	M0	74	LYS
47	M0	87	LEU
47	M0	91	VAL
47	M0	99	ILE
47	M0	101	LYS
47	M0	116	ARG

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Mol	Chain	Res	Type
47	M0	131	ILE
47	M0	138	VAL
47	M0	143	SER
47	M0	144	ASN
47	M0	146	ASP
47	M0	149	VAL
47	M0	156	ARG
47	M0	162	GLN
47	M0	163	GLN
47	M0	165	ILE
47	M0	174	THR
47	M0	185	ARG
47	M0	191	LYS
47	M0	192	ASP
47	M0	203	LYS
47	M0	207	GLU
48	M1	6	GLN
48	M1	7	ASN
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	17	LEU
48	M1	19	LEU
48	M1	23	VAL
48	M1	25	GLU
48	M1	30	LEU
48	M1	40	LEU
48	M1	41	SER
48	M1	44	THR
48	M1	46	VAL
48	M1	52	TYR
48	M1	65	ILE
48	M1	79	ILE
48	M1	80	LEU
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	114	ILE
48	M1	115	LYS
48	M1	120	ILE
48	M1	125	MET

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Mol	Chain	Res	Type
48	M1	137	ARG
48	M1	138	VAL
48	M1	140	ARG
48	M1	142	LYS
48	M1	148	VAL
48	M1	154	THR
48	M1	159	THR
48	M1	160	VAL
48	M1	166	LYS
49	M3	5	LYS
49	M3	10	LEU
49	M3	22	VAL
49	M3	23	LYS
49	M3	33	VAL
49	M3	46	ILE
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	62	THR
49	M3	63	VAL
49	M3	67	ARG
49	M3	70	ARG
49	M3	85	LEU
49	M3	95	ILE
49	M3	103	ASN
49	M3	107	GLU
49	M3	114	GLN
49	M3	117	LYS
49	M3	121	SER
49	M3	122	LYS
49	M3	123	ILE
49	M3	124	ILE
49	M3	128	ARG
49	M3	131	LYS
49	M3	136	GLU
49	M3	147	ILE
49	M3	153	ASP
49	M3	164	GLU
49	M3	165	SER
49	M3	169	THR

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Mol	Chain	Res	Type
49	M3	190	LYS
49	M3	194	GLU
50	M4	4	ASP
50	M4	8	LYS
50	M4	10	SER
50	M4	20	VAL
50	M4	21	VAL
50	M4	23	ILE
50	M4	27	GLN
50	M4	38	ILE
50	M4	43	LYS
50	M4	45	LEU
50	M4	50	LYS
50	M4	53	VAL
50	M4	58	ILE
50	M4	59	ASN
50	M4	64	VAL
50	M4	65	LEU
50	M4	66	THR
50	M4	69	THR
50	M4	72	LEU
50	M4	92	GLU
50	M4	93	LYS
50	M4	105	GLN
50	M4	106	ARG
50	M4	107	GLU
50	M4	108	ARG
50	M4	116	GLU
50	M4	126	GLN
50	M4	135	LEU
51	M5	10	LEU
51	M5	15	GLN
51	M5	19	LEU
51	M5	20	ARG
51	M5	22	LEU
51	M5	29	GLU
51	M5	36	ILE
51	M5	38	ARG
51	M5	68	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	83	LYS

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Mol	Chain	Res	Type
51	M5	85	THR
51	M5	92	LEU
51	M5	97	SER
51	M5	104	GLU
51	M5	106	VAL
51	M5	117	ASN
51	M5	133	ILE
51	M5	134	LEU
51	M5	138	GLN
51	M5	144	ARG
51	M5	151	ILE
51	M5	159	ARG
51	M5	164	LEU
51	M5	167	THR
51	M5	170	LYS
51	M5	174	ILE
51	M5	182	ASN
51	M5	183	THR
51	M5	190	THR
51	M5	201	ARG
51	M5	204	LYS
52	M6	8	VAL
52	M6	22	VAL
52	M6	25	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	58	LEU
52	M6	67	THR
52	M6	78	ARG
52	M6	82	LYS
52	M6	84	LEU
52	M6	85	ARG
52	M6	106	GLU
52	M6	108	ILE
52	M6	116	LYS
52	M6	118	VAL
52	M6	119	VAL
52	M6	124	LEU
52	M6	126	VAL
52	M6	129	LEU
52	M6	130	LYS
52	M6	143	THR

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Mol	Chain	Res	Type
52	M6	170	LYS
52	M6	180	SER
52	M6	182	ASN
52	M6	184	THR
52	M6	190	VAL
53	M7	7	THR
53	M7	9	THR
53	M7	14	SER
53	M7	18	ARG
53	M7	24	VAL
53	M7	32	THR
53	M7	36	ILE
53	M7	41	LEU
53	M7	42	THR
53	M7	51	VAL
53	M7	56	ARG
53	M7	61	ARG
53	M7	69	ARG
53	M7	78	VAL
53	M7	82	ARG
53	M7	107	LEU
53	M7	111	LYS
53	M7	112	LEU
53	M7	113	TYR
53	M7	114	VAL
53	M7	118	GLN
53	M7	119	VAL
53	M7	127	ARG
53	M7	128	ARG
53	M7	129	THR
53	M7	141	SER
53	M7	144	SER
53	M7	149	VAL
53	M7	157	VAL
53	M7	165	VAL
53	M7	168	LEU
53	M7	171	ARG
53	M7	173	ARG
53	M7	179	GLN
53	M7	180	LYS
53	M7	181	ARG
54	M8	3	ILE

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Mol	Chain	Res	Type
54	M8	6	THR
54	M8	7	SER
54	M8	13	SER
54	M8	17	THR
54	M8	21	SER
54	M8	24	VAL
54	M8	26	LEU
54	M8	32	LEU
54	M8	39	ARG
54	M8	41	ASP
54	M8	49	LEU
54	M8	57	ILE
54	M8	63	SER
54	M8	69	ARG
54	M8	74	GLU
54	M8	81	VAL
54	M8	86	THR
54	M8	93	ILE
54	M8	98	LYS
54	M8	104	LEU
54	M8	111	ARG
54	M8	113	LYS
54	M8	124	LEU
54	M8	129	VAL
54	M8	135	GLN
54	M8	138	LEU
54	M8	161	LYS
54	M8	179	ARG
54	M8	186	VAL
55	M9	8	LYS
55	M9	10	LEU
55	M9	17	VAL
55	M9	22	VAL
55	M9	25	ASP
55	M9	37	SER
55	M9	41	ILE
55	M9	42	ARG
55	M9	43	LYS
55	M9	44	LEU
55	M9	46	LYS
55	M9	55	VAL
55	M9	61	SER

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Mol	Chain	Res	Type
55	M9	74	ARG
55	M9	81	ARG
55	M9	91	SER
55	M9	98	ARG
55	M9	99	LEU
55	M9	101	VAL
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	110	ARG
55	M9	115	ILE
55	M9	135	LYS
55	M9	138	LEU
55	M9	139	VAL
55	M9	153	LYS
55	M9	156	ASN
55	M9	171	ASP
55	M9	175	GLN
55	M9	177	VAL
55	M9	180	LYS
56	N0	1	MET
56	N0	8	GLN
56	N0	10	ILE
56	N0	12	ARG
56	N0	13	ARG
56	N0	45	LEU
56	N0	51	VAL
56	N0	58	ILE
56	N0	61	ILE
56	N0	64	ILE
56	N0	80	ARG
56	N0	85	SER
56	N0	87	THR
56	N0	88	HIS
56	N0	97	VAL
56	N0	104	GLU
56	N0	105	THR
56	N0	106	LEU
56	N0	117	ARG
56	N0	120	SER
56	N0	125	LYS
56	N0	130	GLU

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Mol	Chain	Res	Type
56	N0	132	THR
56	N0	137	ARG
56	N0	138	GLN
56	N0	155	ARG
56	N0	156	VAL
56	N0	160	THR
56	N0	162	THR
56	N0	167	ARG
56	N0	171	PHE
56	N0	172	TYR
57	N1	9	SER
57	N1	14	MET
57	N1	27	LEU
57	N1	35	LYS
57	N1	48	ILE
57	N1	55	LYS
57	N1	64	VAL
57	N1	71	SER
57	N1	75	ILE
57	N1	76	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	87	LYS
57	N1	88	ARG
57	N1	89	LEU
57	N1	96	ILE
57	N1	104	GLU
57	N1	106	LEU
57	N1	124	VAL
57	N1	126	VAL
57	N1	128	LEU
57	N1	131	GLN
57	N1	136	ARG
57	N1	139	ARG
57	N1	141	VAL
57	N1	143	THR
57	N1	144	GLU
57	N1	149	GLN
57	N1	154	VAL
57	N1	158	THR
58	N2	10	LYS

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Mol	Chain	Res	Type
58	N2	16	THR
58	N2	29	ASP
58	N2	32	SER
58	N2	38	ILE
58	N2	39	ASP
58	N2	49	ASN
58	N2	54	VAL
58	N2	61	THR
58	N2	63	VAL
58	N2	66	VAL
58	N2	82	LYS
58	N2	88	GLN
58	N2	93	ILE
58	N2	100	THR
59	N3	12	ARG
59	N3	13	ILE
59	N3	22	ILE
59	N3	36	ILE
59	N3	44	SER
59	N3	48	ARG
59	N3	63	LYS
59	N3	64	LYS
59	N3	69	LEU
59	N3	72	LYS
59	N3	73	VAL
59	N3	74	MET
59	N3	83	LYS
59	N3	84	SER
59	N3	91	VAL
59	N3	102	ILE
59	N3	109	MET
59	N3	110	LYS
59	N3	115	THR
59	N3	120	LYS
59	N3	135	VAL
59	N3	136	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	9	SER
60	N4	19	THR
60	N4	39	LEU
60	N4	54	LEU

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Mol	Chain	Res	Type
60	N4	57	LYS
60	N4	63	ILE
61	N5	26	VAL
61	N5	27	ARG
61	N5	36	LYS
61	N5	37	THR
61	N5	38	LEU
61	N5	39	LYS
61	N5	40	LEU
61	N5	49	LYS
61	N5	51	VAL
61	N5	57	LEU
61	N5	63	ILE
61	N5	71	THR
61	N5	74	LYS
61	N5	75	LYS
61	N5	78	ASP
61	N5	81	ILE
61	N5	87	SER
61	N5	105	VAL
61	N5	108	LEU
61	N5	112	THR
61	N5	115	ARG
61	N5	125	ARG
61	N5	133	LEU
61	N5	134	ASP
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	5	SER
62	N6	8	VAL
62	N6	10	SER
62	N6	13	ARG
62	N6	14	LYS
62	N6	17	LYS
62	N6	37	LYS
62	N6	45	ILE
62	N6	50	ILE
62	N6	56	VAL
62	N6	57	LEU
62	N6	60	ARG

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Mol	Chain	Res	Type
62	N6	70	ILE
62	N6	76	LEU
62	N6	80	VAL
62	N6	89	LYS
62	N6	95	VAL
62	N6	105	VAL
62	N6	110	HIS
62	N6	115	ARG
62	N6	122	LYS
62	N6	125	LYS
62	N6	126	LEU
63	N7	3	LYS
63	N7	14	VAL
63	N7	17	ARG
63	N7	24	VAL
63	N7	33	SER
63	N7	46	ILE
63	N7	52	LYS
63	N7	53	VAL
63	N7	54	THR
63	N7	64	LYS
63	N7	72	ILE
63	N7	80	LEU
63	N7	81	LEU
63	N7	83	THR
63	N7	86	THR
63	N7	90	GLU
63	N7	99	GLU
63	N7	102	GLU
63	N7	106	GLN
63	N7	109	GLU
63	N7	120	GLU
63	N7	121	ARG
63	N7	134	LEU
64	N8	4	ARG
64	N8	5	PHE
64	N8	6	THR
64	N8	8	THR
64	N8	10	LYS
64	N8	12	ARG
64	N8	14	HIS
64	N8	19	LYS

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Mol	Chain	Res	Type
64	N8	29	PRO
64	N8	32	ARG
64	N8	34	MET
64	N8	42	ARG
64	N8	56	VAL
64	N8	72	VAL
64	N8	73	LEU
64	N8	78	LEU
64	N8	84	GLU
64	N8	91	LEU
64	N8	92	LYS
64	N8	93	SER
64	N8	98	THR
64	N8	115	LYS
64	N8	118	ILE
64	N8	120	ASN
64	N8	124	ILE
64	N8	130	VAL
64	N8	133	LEU
64	N8	135	GLU
64	N8	139	ARG
65	N9	4	SER
65	N9	7	HIS
65	N9	13	THR
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	35	VAL
65	N9	44	LYS
65	N9	47	LEU
65	N9	50	THR
65	N9	59	LYS
66	O0	16	LEU
66	O0	18	ILE
66	O0	32	LYS
66	O0	34	LEU
66	O0	36	GLN
66	O0	41	LEU
66	O0	51	LEU
66	O0	54	SER
66	O0	79	THR

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Mol	Chain	Res	Type
66	O0	83	LYS
66	O0	87	VAL
66	O0	89	VAL
66	O0	100	ILE
66	O0	104	LEU
67	O1	6	ASP
67	O1	8	VAL
67	O1	9	THR
67	O1	13	THR
67	O1	16	LEU
67	O1	18	LYS
67	O1	26	LYS
67	O1	31	ARG
67	O1	44	MET
67	O1	46	THR
67	O1	55	LEU
67	O1	59	ILE
67	O1	64	VAL
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG
67	O1	82	GLU
67	O1	83	GLU
67	O1	84	ASP
67	O1	86	LYS
67	O1	94	GLU
67	O1	96	VAL
67	O1	102	LYS
67	O1	104	LEU
67	O1	106	THR
67	O1	107	VAL
67	O1	110	GLU
68	O2	8	LYS
68	O2	9	ILE
68	O2	19	ARG
68	O2	23	ASP
68	O2	30	GLU
68	O2	33	ARG
68	O2	34	LYS
68	O2	38	ILE
68	O2	41	VAL
68	O2	44	ARG

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Mol	Chain	Res	Type
68	O2	54	LYS
68	O2	55	ILE
68	O2	62	LYS
68	O2	67	SER
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	79	VAL
68	O2	82	LEU
68	O2	83	GLU
68	O2	84	THR
68	O2	90	LYS
68	O2	91	THR
68	O2	103	LYS
68	O2	106	VAL
68	O2	109	LEU
68	O2	125	ARG
68	O2	126	LEU
68	O2	128	LEU
69	O3	15	SER
69	O3	20	LYS
69	O3	29	LEU
69	O3	31	LYS
69	O3	42	GLN
69	O3	57	LYS
69	O3	59	VAL
69	O3	70	LYS
69	O3	72	THR
69	O3	74	THR
69	O3	80	VAL
69	O3	81	VAL
69	O3	86	ARG
69	O3	90	PRO
69	O3	92	LYS
69	O3	98	VAL
69	O3	106	ASN
70	O4	3	GLN
70	O4	5	VAL
70	O4	16	ARG
70	O4	17	SER
70	O4	20	ILE
70	O4	21	LYS

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Mol	Chain	Res	Type
70	O4	24	LYS
70	O4	29	ILE
70	O4	38	LEU
70	O4	52	GLN
70	O4	58	ARG
70	O4	65	VAL
70	O4	67	LYS
70	O4	71	THR
70	O4	73	SER
70	O4	79	SER
70	O4	86	LYS
70	O4	95	ILE
70	O4	104	VAL
71	O5	4	VAL
71	O5	13	SER
71	O5	20	GLN
71	O5	21	LEU
71	O5	22	VAL
71	O5	27	GLU
71	O5	28	LEU
71	O5	31	LEU
71	O5	36	LEU
71	O5	40	SER
71	O5	41	LEU
71	O5	43	LYS
71	O5	48	ARG
71	O5	49	LYS
71	O5	64	GLU
71	O5	69	LEU
71	O5	71	LYS
71	O5	74	LYS
71	O5	76	GLN
71	O5	84	LYS
71	O5	85	THR
71	O5	96	GLU
71	O5	100	VAL
71	O5	102	GLU
71	O5	104	GLN
71	O5	107	LYS
71	O5	119	LYS
72	O6	2	THR
72	O6	11	LEU

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Mol	Chain	Res	Type
72	O6	17	VAL
72	O6	18	THR
72	O6	20	MET
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	36	ARG
72	O6	43	LEU
72	O6	45	ARG
72	O6	47	ILE
72	O6	52	PRO
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	62	ARG
72	O6	68	ARG
72	O6	71	LYS
72	O6	75	LYS
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
72	O6	99	ARG
73	O7	5	THR
73	O7	10	LYS
73	O7	14	LYS
73	O7	17	THR
73	O7	24	ARG
73	O7	25	ARG
73	O7	33	THR
73	O7	36	SER
73	O7	45	ARG
73	O7	52	LYS
73	O7	55	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	67	LEU
73	O7	68	LYS
73	O7	75	LYS
73	O7	82	SER
73	O7	85	LYS
74	O8	5	ILE

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Mol	Chain	Res	Type
74	O8	6	THR
74	O8	8	ILE
74	O8	12	LEU
74	O8	19	ASP
74	O8	22	THR
74	O8	24	THR
74	O8	32	ASN
74	O8	41	THR
74	O8	45	VAL
74	O8	52	TYR
74	O8	53	THR
74	O8	64	LYS
74	O8	67	GLN
74	O8	69	LEU
74	O8	70	PRO
74	O8	77	ARG
75	O9	4	GLN
75	O9	15	LYS
75	O9	21	ARG
75	O9	23	LEU
75	O9	27	ILE
75	O9	29	LEU
75	O9	30	ARG
75	O9	46	ARG
75	O9	47	THR
75	O9	48	LYS
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	90	ASN
76	Q0	95	VAL
76	Q0	97	ARG
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	1	MET
77	Q1	2	ARG
77	Q1	5	TRP
77	Q1	6	ARG

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Mol	Chain	Res	Type
77	Q1	9	ARG
77	Q1	10	THR
77	Q1	11	ARG
77	Q1	13	LEU
77	Q1	17	ARG
77	Q1	24	SER
77	Q1	25	LYS
78	Q2	3	ASN
78	Q2	6	LYS
78	Q2	7	THR
78	Q2	9	LYS
78	Q2	13	LYS
78	Q2	21	THR
78	Q2	26	THR
78	Q2	27	GLN
78	Q2	28	TYR
78	Q2	34	SER
78	Q2	35	LEU
78	Q2	45	ARG
78	Q2	48	SER
78	Q2	55	LYS
78	Q2	60	LYS
78	Q2	61	LYS
78	Q2	68	VAL
78	Q2	78	LYS
78	Q2	80	ARG
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	93	LEU
78	Q2	99	GLN
78	Q2	100	LYS
78	Q2	104	LEU
78	Q2	105	GLN
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	24	ARG
79	Q3	25	GLN
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	70	THR
79	Q3	78	THR

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Mol	Chain	Res	Type
79	Q3	82	THR
79	Q3	91	GLU
2	s0	6	THR
2	s0	9	LEU
2	s0	12	GLU
2	s0	30	GLN
2	s0	45	VAL
2	s0	49	ASN
2	s0	50	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	62	ARG
2	s0	69	ASN
2	s0	76	ILE
2	s0	87	LEU
2	s0	93	THR
2	s0	96	THR
2	s0	101	ARG
2	s0	110	TYR
2	s0	111	ILE
2	s0	123	VAL
2	s0	133	ILE
2	s0	135	GLU
2	s0	139	VAL
2	s0	144	ILE
2	s0	153	SER
2	s0	154	GLU
2	s0	156	VAL
2	s0	157	ASP
2	s0	162	CYS
2	s0	167	LYS
2	s0	172	LEU
2	s0	180	GLU
2	s0	183	ARG
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	196	SER
2	s0	197	ILE
2	s0	198	MET
2	s0	203	PHE
3	s1	21	VAL

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Mol	Chain	Res	Type
3	s1	25	THR
3	s1	40	ASN
3	s1	47	LEU
3	s1	51	SER
3	s1	55	LYS
3	s1	62	LYS
3	s1	66	VAL
3	s1	67	GLU
3	s1	70	LEU
3	s1	73	LEU
3	s1	74	GLN
3	s1	76	SER
3	s1	83	LYS
3	s1	85	LYS
3	s1	95	ASN
3	s1	96	LEU
3	s1	97	LEU
3	s1	106	THR
3	s1	115	ARG
3	s1	119	THR
3	s1	125	VAL
3	s1	129	THR
3	s1	138	PHE
3	s1	150	VAL
3	s1	164	ILE
3	s1	173	THR
3	s1	175	GLU
3	s1	180	THR
3	s1	181	LEU
3	s1	193	ILE
3	s1	204	ILE
3	s1	206	PRO
3	s1	209	ASN
3	s1	212	VAL
3	s1	213	ARG
3	s1	214	LYS
3	s1	215	VAL
3	s1	217	LEU
3	s1	219	LYS
3	s1	228	LEU
3	s1	232	HIS
3	s1	234	GLU

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Mol	Chain	Res	Type
4	s2	41	LEU
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	58	LEU
4	s2	69	ILE
4	s2	70	ASP
4	s2	72	LEU
4	s2	73	LEU
4	s2	80	VAL
4	s2	81	MET
4	s2	83	ILE
4	s2	89	GLN
4	s2	90	THR
4	s2	91	ARG
4	s2	94	GLN
4	s2	111	VAL
4	s2	117	THR
4	s2	130	ILE
4	s2	137	ILE
4	s2	139	ILE
4	s2	141	ARG
4	s2	147	ASN
4	s2	148	LEU
4	s2	150	GLN
4	s2	153	SER
4	s2	164	SER
4	s2	166	THR
4	s2	167	VAL
4	s2	170	ILE
4	s2	181	SER
4	s2	185	LYS
4	s2	189	GLN
4	s2	194	GLU
4	s2	195	ASP
4	s2	206	THR
4	s2	207	LEU
4	s2	218	ILE
4	s2	221	THR
4	s2	226	THR
4	s2	229	LEU
4	s2	233	GLN

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Mol	Chain	Res	Type
4	s2	237	VAL
4	s2	240	LEU
4	s2	242	ILE
4	s2	244	SER
4	s2	250	GLN
5	s3	4	LEU
5	s3	7	LYS
5	s3	9	ARG
5	s3	16	VAL
5	s3	21	LEU
5	s3	26	THR
5	s3	39	VAL
5	s3	44	THR
5	s3	53	THR
5	s3	55	THR
5	s3	59	LEU
5	s3	67	ASN
5	s3	69	LEU
5	s3	76	ARG
5	s3	84	ILE
5	s3	91	VAL
5	s3	103	GLU
5	s3	111	ASN
5	s3	113	LEU
5	s3	115	ILE
5	s3	116	ARG
5	s3	117	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	132	LYS
5	s3	142	LEU
5	s3	158	ILE
5	s3	168	ILE
5	s3	172	THR
5	s3	175	VAL
5	s3	181	VAL
5	s3	189	MET
5	s3	202	LEU
5	s3	204	ASP
5	s3	212	LYS
5	s3	213	GLU
6	s4	6	LYS

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Mol	Chain	Res	Type
6	s4	9	LEU
6	s4	12	LEU
6	s4	23	LEU
6	s4	24	SER
6	s4	37	LYS
6	s4	38	LEU
6	s4	39	ARG
6	s4	42	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	56	LEU
6	s4	67	GLN
6	s4	70	VAL
6	s4	89	VAL
6	s4	92	LEU
6	s4	95	THR
6	s4	105	VAL
6	s4	113	ARG
6	s4	116	ASP
6	s4	123	LEU
6	s4	126	VAL
6	s4	127	LYS
6	s4	131	LEU
6	s4	139	VAL
6	s4	140	VAL
6	s4	146	THR
6	s4	147	ILE
6	s4	148	ARG
6	s4	160	VAL
6	s4	162	ILE
6	s4	164	LEU
6	s4	170	THR
6	s4	180	LEU
6	s4	181	VAL
6	s4	182	TYR
6	s4	191	ARG
6	s4	192	ILE
6	s4	194	THR
6	s4	196	VAL
6	s4	214	LEU
6	s4	221	ARG
6	s4	222	LEU

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Mol	Chain	Res	Type
6	s4	223	ASN
6	s4	227	VAL
6	s4	236	ILE
6	s4	237	SER
6	s4	246	LEU
6	s4	252	ARG
7	s5	23	VAL
7	s5	24	VAL
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	32	GLU
7	s5	38	THR
7	s5	41	LYS
7	s5	51	VAL
7	s5	53	VAL
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	76	ARG
7	s5	83	ARG
7	s5	89	ILE
7	s5	93	LEU
7	s5	94	THR
7	s5	111	VAL
7	s5	125	THR
7	s5	146	THR
7	s5	147	THR
7	s5	148	ARG
7	s5	149	VAL
7	s5	156	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	170	GLN
7	s5	187	ILE
7	s5	194	LEU
7	s5	199	ILE
7	s5	203	LYS
7	s5	205	SER
7	s5	213	LYS
7	s5	216	GLU

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Mol	Chain	Res	Type
8	s6	10	ASN
8	s6	15	THR
8	s6	17	GLU
8	s6	21	GLU
8	s6	25	ARG
8	s6	36	VAL
8	s6	57	ASP
8	s6	69	LEU
8	s6	71	THR
8	s6	76	LEU
8	s6	78	THR
8	s6	81	VAL
8	s6	82	SER
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	111	LEU
8	s6	115	LYS
8	s6	120	GLU
8	s6	121	LEU
8	s6	127	THR
8	s6	128	THR
8	s6	129	VAL
8	s6	132	ARG
8	s6	137	ARG
8	s6	143	LYS
8	s6	150	GLU
8	s6	151	ASP
8	s6	155	ASP
8	s6	158	ILE
8	s6	169	TYR
8	s6	170	THR
8	s6	171	LYS
8	s6	177	ARG
8	s6	193	LEU
8	s6	195	VAL
8	s6	203	GLU
8	s6	212	LEU
8	s6	215	ARG
9	s7	11	GLN
9	s7	26	GLU

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Mol	Chain	Res	Type
9	s7	28	GLU
9	s7	33	GLU
9	s7	41	LEU
9	s7	49	ILE
9	s7	50	ASP
9	s7	60	ILE
9	s7	62	VAL
9	s7	67	LEU
9	s7	75	THR
9	s7	77	LEU
9	s7	79	ARG
9	s7	81	LEU
9	s7	86	GLN
9	s7	88	ARG
9	s7	97	ARG
9	s7	105	THR
9	s7	108	GLN
9	s7	109	VAL
9	s7	110	GLN
9	s7	114	ARG
9	s7	116	ARG
9	s7	117	THR
9	s7	126	LEU
9	s7	130	VAL
9	s7	134	GLU
9	s7	136	VAL
9	s7	139	ARG
9	s7	143	LEU
9	s7	144	VAL
9	s7	156	SER
9	s7	160	GLN
9	s7	166	LEU
9	s7	167	GLU
9	s7	175	LYS
9	s7	176	LEU
9	s7	185	ILE
9	s7	187	SER
10	s8	3	ILE
10	s8	22	ARG
10	s8	24	LYS
10	s8	25	ARG
10	s8	29	LEU

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Mol	Chain	Res	Type
10	s8	36	THR
10	s8	56	ARG
10	s8	58	LEU
10	s8	59	ARG
10	s8	60	ILE
10	s8	61	GLU
10	s8	64	ASN
10	s8	66	SER
10	s8	74	LYS
10	s8	76	THR
10	s8	82	VAL
10	s8	102	VAL
10	s8	121	LEU
10	s8	138	ASN
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	158	SER
10	s8	183	ILE
10	s8	184	LEU
10	s8	199	LYS
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	16	LYS
11	s9	21	SER
11	s9	22	SER
11	s9	28	LEU
11	s9	37	LYS
11	s9	39	LYS
11	s9	45	ILE
11	s9	46	SER
11	s9	49	LEU
11	s9	57	ARG
11	s9	78	ARG
11	s9	82	ARG
11	s9	83	VAL
11	s9	90	LYS
11	s9	93	LEU
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU

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Mol	Chain	Res	Type
11	s9	110	GLN
11	s9	111	THR
11	s9	120	LYS
11	s9	126	ARG
11	s9	127	VAL
11	s9	130	THR
11	s9	134	ILE
11	s9	140	ILE
11	s9	141	VAL
11	s9	149	ARG
11	s9	150	LEU
11	s9	152	SER
11	s9	161	THR
11	s9	171	ARG
81	c0	5	LYS
81	c0	15	LEU
81	c0	20	VAL
81	c0	21	VAL
81	c0	33	GLU
81	c0	55	VAL
81	c0	56	LYS
81	c0	57	THR
81	c0	71	GLU
81	c0	77	ARG
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	25	VAL
13	c1	27	THR
13	c1	30	ARG
13	c1	31	THR
13	c1	32	LYS
13	c1	33	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	47	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	72	THR
13	c1	74	THR
13	c1	80	MET

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Mol	Chain	Res	Type
13	c1	83	THR
13	c1	87	ARG
13	c1	90	TYR
13	c1	96	LYS
13	c1	102	LYS
13	c1	123	VAL
13	c1	125	VAL
13	c1	133	LYS
13	c1	134	THR
13	c1	140	VAL
13	c1	143	SER
14	c2	28	LEU
14	c2	36	LEU
14	c2	39	ASP
14	c2	43	ARG
14	c2	58	LEU
14	c2	59	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	66	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	83	GLU
14	c2	85	LYS
14	c2	89	ILE
14	c2	103	LEU
14	c2	116	VAL
14	c2	120	VAL
14	c2	121	VAL
14	c2	132	GLU
14	c2	136	ILE
14	c2	140	PHE
15	c3	14	SER
15	c3	16	ILE
15	c3	20	ARG
15	c3	21	ASN
15	c3	28	LEU
15	c3	29	SER
15	c3	60	VAL
15	c3	62	GLN
15	c3	66	ILE
15	c3	69	ASN

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Mol	Chain	Res	Type
15	c3	70	LYS
15	c3	71	ILE
15	c3	75	LEU
15	c3	80	LEU
15	c3	84	ILE
15	c3	93	LYS
15	c3	102	LEU
15	c3	104	ARG
15	c3	107	LYS
15	c3	115	LEU
15	c3	116	ILE
15	c3	120	SER
15	c3	125	LEU
15	c3	131	THR
15	c3	134	VAL
15	c3	141	TYR
15	c3	147	SER
16	c4	13	VAL
16	c4	16	VAL
16	c4	18	ARG
16	c4	26	THR
16	c4	31	THR
16	c4	33	LEU
16	c4	42	VAL
16	c4	43	THR
16	c4	49	LYS
16	c4	51	ASP
16	c4	52	ARG
16	c4	56	SER
16	c4	61	MET
16	c4	67	VAL
16	c4	79	VAL
16	c4	81	VAL
16	c4	82	LYS
16	c4	83	ILE
16	c4	84	ARG
16	c4	89	THR
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	115	ILE
16	c4	118	VAL

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Mol	Chain	Res	Type
16	c4	119	THR
16	c4	123	SER
16	c4	124	ASP
16	c4	125	SER
16	c4	129	LYS
16	c4	132	ARG
16	c4	133	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	20	VAL
17	c5	24	LYS
17	c5	36	LEU
17	c5	52	LYS
17	c5	69	GLU
17	c5	71	GLU
17	c5	77	ARG
17	c5	85	ILE
17	c5	97	TYR
17	c5	104	GLN
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	124	THR
17	c5	127	ARG
18	c6	7	VAL
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	34	SER
18	c6	36	ILE
18	c6	37	THR
18	c6	43	ILE
18	c6	53	LEU
18	c6	57	LEU
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL
18	c6	70	THR
18	c6	83	GLN
18	c6	90	VAL
18	c6	97	VAL

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Mol	Chain	Res	Type
18	c6	98	ASP
18	c6	110	THR
18	c6	111	SER
18	c6	113	ASP
18	c6	114	ARG
18	c6	117	LEU
18	c6	121	SER
18	c6	128	LYS
18	c6	137	ARG
19	c7	5	ARG
19	c7	6	THR
19	c7	8	THR
19	c7	14	LYS
19	c7	27	ASP
19	c7	29	GLN
19	c7	30	THR
19	c7	31	ASN
19	c7	34	LEU
19	c7	38	ILE
19	c7	49	LYS
19	c7	66	VAL
19	c7	69	ILE
19	c7	83	GLN
19	c7	85	VAL
19	c7	110	VAL
19	c7	113	LEU
20	c8	2	SER
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	13	HIS
20	c8	15	LEU
20	c8	20	THR
20	c8	25	ASN
20	c8	28	ILE
20	c8	34	THR
20	c8	36	LYS
20	c8	41	ARG
20	c8	57	ARG
20	c8	61	LEU
20	c8	63	GLN
20	c8	66	LEU

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Mol	Chain	Res	Type
20	c8	85	PHE
20	c8	94	ASP
20	c8	104	ASN
20	c8	105	VAL
20	c8	119	ILE
20	c8	133	VAL
20	c8	136	GLN
20	c8	138	THR
20	c8	141	THR
20	c8	143	ARG
20	c8	144	ARG
21	c9	6	VAL
21	c9	20	SER
21	c9	27	LYS
21	c9	28	LEU
21	c9	29	GLU
21	c9	34	VAL
21	c9	38	LYS
21	c9	57	ARG
21	c9	68	ARG
21	c9	71	VAL
21	c9	88	VAL
21	c9	89	ARG
21	c9	91	TYR
21	c9	99	SER
21	c9	115	GLU
21	c9	123	ARG
21	c9	124	ILE
21	c9	126	GLU
21	c9	132	LEU
21	c9	135	ILE
21	c9	140	LEU
22	d0	12	GLN
22	d0	20	ILE
22	d0	22	ILE
22	d0	23	ARG
22	d0	25	THR
22	d0	27	THR
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	39	SER

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Mol	Chain	Res	Type
22	d0	44	ASN
22	d0	49	ASN
22	d0	57	ARG
22	d0	60	THR
22	d0	63	LEU
22	d0	66	SER
22	d0	67	THR
22	d0	70	THR
22	d0	72	ASN
22	d0	74	GLU
22	d0	77	LYS
22	d0	89	ARG
22	d0	97	VAL
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	106	ILE
22	d0	107	THR
22	d0	108	ILE
22	d0	115	GLU
22	d0	116	VAL
22	d0	118	VAL
23	d1	2	GLU
23	d1	5	LYS
23	d1	9	VAL
23	d1	11	LEU
23	d1	12	TYR
23	d1	15	ARG
23	d1	32	VAL
23	d1	34	ILE
23	d1	38	LYS
23	d1	49	GLU
23	d1	52	THR
23	d1	78	LEU
23	d1	81	ASN
23	d1	86	SER
24	d2	6	VAL
24	d2	7	LEU
24	d2	20	THR
24	d2	23	ARG
24	d2	26	LEU

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Mol	Chain	Res	Type
24	d2	27	ILE
24	d2	28	ARG
24	d2	43	LYS
24	d2	47	ILE
24	d2	49	GLU
24	d2	65	LEU
24	d2	68	ARG
24	d2	74	VAL
24	d2	88	LYS
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	117	ARG
24	d2	121	VAL
24	d2	124	LYS
24	d2	126	LEU
25	d3	3	LYS
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	27	ASN
25	d3	33	LEU
25	d3	40	SER
25	d3	53	VAL
25	d3	57	LEU
25	d3	69	ARG
25	d3	73	ARG
25	d3	78	LYS
25	d3	83	VAL
25	d3	84	THR
25	d3	94	ASN
25	d3	96	VAL
25	d3	98	GLU
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	117	ILE
25	d3	123	LYS
25	d3	127	VAL
25	d3	133	LEU
26	d4	5	VAL
26	d4	10	ARG

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Mol	Chain	Res	Type
26	d4	13	ILE
26	d4	14	SER
26	d4	22	GLN
26	d4	29	HIS
26	d4	34	ASN
26	d4	35	VAL
26	d4	36	SER
26	d4	42	GLU
26	d4	44	LEU
26	d4	46	GLU
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	57	VAL
26	d4	62	THR
26	d4	69	SER
26	d4	78	SER
26	d4	83	LYS
26	d4	88	THR
26	d4	100	VAL
26	d4	114	ARG
26	d4	118	ILE
26	d4	121	THR
26	d4	128	LYS
26	d4	135	ASP
27	d5	41	ILE
27	d5	43	ASP
27	d5	46	LYS
27	d5	51	LEU
27	d5	53	GLU
27	d5	57	TYR
27	d5	60	VAL
27	d5	81	ARG
27	d5	88	ILE
27	d5	90	LYS
27	d5	97	LYS
27	d5	105	THR
28	d6	5	ARG
28	d6	10	ARG
28	d6	11	ASN
28	d6	21	VAL
28	d6	30	ILE

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Mol	Chain	Res	Type
28	d6	41	ILE
28	d6	42	ARG
28	d6	50	VAL
28	d6	53	LEU
28	d6	58	VAL
28	d6	67	THR
28	d6	84	VAL
28	d6	85	ARG
28	d6	89	ARG
28	d6	90	GLU
29	d7	3	LEU
29	d7	41	LEU
29	d7	43	ILE
29	d7	52	THR
29	d7	61	THR
29	d7	72	LYS
29	d7	77	THR
30	d8	7	VAL
30	d8	11	LYS
30	d8	14	LYS
30	d8	15	VAL
30	d8	16	LEU
30	d8	19	THR
30	d8	22	ARG
30	d8	28	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	36	THR
30	d8	39	THR
30	d8	42	ARG
30	d8	44	VAL
30	d8	54	LEU
30	d8	64	ARG
31	d9	10	HIS
31	d9	16	LYS
31	d9	21	CYS
31	d9	30	LEU
31	d9	31	ILE
31	d9	32	ARG
31	d9	36	LEU
31	d9	54	LYS
32	e0	4	VAL

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Mol	Chain	Res	Type
32	e0	8	LEU
32	e0	13	LYS
32	e0	21	VAL
32	e0	22	GLU
32	e0	23	LYS
32	e0	26	LYS
32	e0	28	LYS
32	e0	29	LYS
32	e0	39	LEU
32	e0	41	THR
32	e0	45	VAL
32	e0	47	VAL
32	e0	49	LEU
32	e0	50	VAL
32	e0	54	ARG
32	e0	55	ARG
33	e1	83	LYS
33	e1	84	VAL
33	e1	86	THR
33	e1	90	LYS
33	e1	91	ILE
33	e1	96	LYS
33	e1	98	VAL
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	113	LYS
33	e1	115	THR
33	e1	120	GLU
33	e1	135	HIS
33	e1	147	VAL
33	e1	151	ASN
34	sR	29	GLN
34	sR	50	ASP
34	sR	52	GLN
34	sR	58	VAL
34	sR	65	SER
34	sR	66	HIS
34	sR	70	ASP
34	sR	76	ASP
34	sR	89	LEU
34	sR	96	THR

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Mol	Chain	Res	Type
34	sR	106	HIS
34	sR	145	LEU
34	sR	166	SER
34	sR	168	THR
34	sR	176	LYS
34	sR	184	ASN
34	sR	188	ILE
34	sR	199	ILE
34	sR	207	ASP
34	sR	228	LYS
34	sR	232	TYR
34	sR	234	LEU
34	sR	250	TYR
34	sR	256	THR
34	sR	274	LEU
34	sR	275	ARG
34	sR	277	GLU
34	sR	286	GLU
34	sR	297	ASP
34	sR	310	ILE
34	sR	312	VAL
82	sM	23	LYS
82	sM	24	GLU
82	sM	25	ILE
82	sM	26	VAL
82	sM	28	SER
82	sM	37	VAL
82	sM	41	SER
82	sM	43	ASP
82	sM	45	SER
82	sM	48	ARG
82	sM	49	LYS
82	sM	61	ILE
82	sM	63	ASP
82	sM	64	LYS
82	sM	73	SER
82	sM	74	LYS
82	sM	75	ASP
82	sM	77	THR
39	l2	15	ILE
39	l2	31	THR
39	l2	32	LEU

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Mol	Chain	Res	Type
39	l2	41	ILE
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	48	ILE
39	l2	74	GLU
39	l2	80	GLU
39	l2	82	VAL
39	l2	84	THR
39	l2	96	LEU
39	l2	98	VAL
39	l2	101	VAL
39	l2	104	LEU
39	l2	107	VAL
39	l2	109	GLU
39	l2	111	THR
39	l2	113	VAL
39	l2	119	LYS
39	l2	134	VAL
39	l2	136	ILE
39	l2	137	ILE
39	l2	142	ASP
39	l2	147	ARG
39	l2	155	LYS
39	l2	157	VAL
39	l2	165	VAL
39	l2	168	VAL
39	l2	169	ILE
39	l2	175	VAL
39	l2	180	LEU
39	l2	188	LYS
39	l2	193	ARG
39	l2	202	VAL
39	l2	204	MET
39	l2	224	THR
39	l2	226	SER
39	l2	227	ARG
39	l2	230	VAL
39	l2	237	LEU
39	l2	241	ARG
39	l2	246	LEU
40	l3	3	HIS

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Mol	Chain	Res	Type
40	l3	4	ARG
40	l3	5	LYS
40	l3	10	ARG
40	l3	17	LEU
40	l3	24	SER
40	l3	28	ARG
40	l3	29	VAL
40	l3	37	ARG
40	l3	38	SER
40	l3	41	VAL
40	l3	43	LEU
40	l3	50	LYS
40	l3	56	ILE
40	l3	70	ARG
40	l3	73	VAL
40	l3	77	THR
40	l3	85	VAL
40	l3	86	VAL
40	l3	95	THR
40	l3	103	THR
40	l3	114	VAL
40	l3	116	ARG
40	l3	118	PHE
40	l3	121	ASN
40	l3	139	GLN
40	l3	140	ASP
40	l3	145	GLU
40	l3	146	ARG
40	l3	148	LEU
40	l3	150	ARG
40	l3	153	LYS
40	l3	157	VAL
40	l3	162	VAL
40	l3	169	THR
40	l3	175	LYS
40	l3	183	LEU
40	l3	192	VAL
40	l3	196	ARG
40	l3	202	THR
40	l3	205	VAL
40	l3	206	ASP
40	l3	208	VAL

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Mol	Chain	Res	Type
40	l3	211	GLN
40	l3	212	ASN
40	l3	221	THR
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	252	ILE
40	l3	260	VAL
40	l3	266	ARG
40	l3	277	SER
40	l3	282	ILE
40	l3	284	ARG
40	l3	287	LYS
40	l3	293	ASN
40	l3	297	SER
40	l3	304	THR
40	l3	312	VAL
40	l3	317	ILE
40	l3	322	ILE
40	l3	324	VAL
40	l3	328	ILE
40	l3	338	LEU
40	l3	340	LYS
40	l3	346	THR
40	l3	347	SER
40	l3	348	ARG
40	l3	364	LYS
40	l3	367	LYS
40	l3	369	ARG
40	l3	376	LYS
40	l3	382	THR
40	l3	383	LEU
41	l4	2	SER
41	l4	3	ARG
41	l4	11	LEU
41	l4	12	THR
41	l4	16	THR
41	l4	18	ASN
41	l4	25	VAL
41	l4	27	SER
41	l4	30	ILE
41	l4	33	ASP

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Mol	Chain	Res	Type
41	l4	37	THR
41	l4	47	ARG
41	l4	69	ARG
41	l4	93	MET
41	l4	98	ARG
41	l4	99	MET
41	l4	118	LYS
41	l4	138	ARG
41	l4	144	LYS
41	l4	145	ILE
41	l4	148	ILE
41	l4	150	LEU
41	l4	151	VAL
41	l4	156	LEU
41	l4	170	LYS
41	l4	172	VAL
41	l4	177	ASP
41	l4	178	LEU
41	l4	179	LEU
41	l4	182	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	191	LYS
41	l4	193	LYS
41	l4	198	ARG
41	l4	203	ARG
41	l4	206	LEU
41	l4	217	LYS
41	l4	220	ARG
41	l4	222	VAL
41	l4	226	GLU
41	l4	233	LEU
41	l4	235	LEU
41	l4	246	ARG
41	l4	249	ILE
41	l4	258	LEU
41	l4	259	ASP
41	l4	265	GLU
41	l4	267	VAL
41	l4	278	SER
41	l4	286	VAL
41	l4	300	ARG

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Mol	Chain	Res	Type
41	14	301	PRO
41	14	306	THR
41	14	307	GLN
41	14	311	HIS
41	14	313	LEU
41	14	314	LYS
41	14	319	LYS
41	14	322	GLN
41	14	327	LEU
41	14	338	LYS
41	14	345	GLU
41	14	347	THR
41	14	354	VAL
41	14	356	THR
41	14	357	GLU
41	14	359	LEU
41	14	360	LYS
42	15	4	GLN
42	15	5	LYS
42	15	10	SER
42	15	13	SER
42	15	15	ARG
42	15	23	ARG
42	15	25	GLU
42	15	35	ARG
42	15	51	LEU
42	15	61	ILE
42	15	65	ILE
42	15	66	SER
42	15	70	THR
42	15	73	VAL
42	15	74	VAL
42	15	75	LEU
42	15	84	PRO
42	15	88	ILE
42	15	93	THR
42	15	94	ASN
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	115	LEU
42	15	118	THR

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Mol	Chain	Res	Type
42	15	123	GLU
42	15	124	GLU
42	15	132	THR
42	15	133	GLU
42	15	136	GLU
42	15	144	VAL
42	15	146	LEU
42	15	148	ILE
42	15	151	GLN
42	15	152	ARG
42	15	155	THR
42	15	159	VAL
42	15	164	LYS
42	15	176	SER
42	15	177	GLU
42	15	183	TRP
42	15	185	PHE
42	15	186	GLU
42	15	189	GLU
42	15	194	LEU
42	15	211	LEU
42	15	220	SER
42	15	227	LEU
42	15	230	ASP
42	15	236	LEU
42	15	239	ILE
42	15	241	THR
42	15	242	SER
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	268	GLU
42	15	273	ARG
42	15	275	THR
42	15	276	LYS
42	15	279	LYS
42	15	293	LEU
43	16	4	GLN
43	16	8	LYS
43	16	18	LEU
43	16	20	LYS
43	16	21	THR

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Mol	Chain	Res	Type
43	16	26	ARG
43	16	50	LYS
43	16	52	VAL
43	16	56	LYS
43	16	64	LEU
43	16	65	ILE
43	16	78	ARG
43	16	79	VAL
43	16	82	ARG
43	16	88	SER
43	16	89	THR
43	16	90	LYS
43	16	91	VAL
43	16	98	VAL
43	16	108	LYS
43	16	109	GLU
43	16	129	GLU
43	16	146	ILE
43	16	152	THR
43	16	155	LEU
43	16	159	LEU
43	16	162	SER
43	16	175	LYS
44	17	22	THR
44	17	26	VAL
44	17	41	ARG
44	17	52	GLN
44	17	53	LYS
44	17	56	GLU
44	17	60	ARG
44	17	77	VAL
44	17	78	GLU
44	17	80	GLN
44	17	82	LYS
44	17	83	LEU
44	17	84	VAL
44	17	87	VAL
44	17	88	ARG
44	17	98	LYS
44	17	100	ARG
44	17	101	LYS
44	17	111	ILE

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Mol	Chain	Res	Type
44	17	120	THR
44	17	121	LYS
44	17	124	LEU
44	17	130	ILE
44	17	142	SER
44	17	156	ILE
44	17	158	LYS
44	17	173	LEU
44	17	175	LYS
44	17	178	ILE
44	17	179	LEU
44	17	184	LEU
44	17	191	VAL
44	17	193	PRO
44	17	196	LYS
44	17	207	LEU
44	17	208	SER
44	17	219	LYS
44	17	229	PHE
44	17	239	LEU
44	17	241	LYS
45	18	26	LEU
45	18	27	THR
45	18	40	VAL
45	18	48	ARG
45	18	67	ILE
45	18	68	ARG
45	18	74	THR
45	18	79	GLN
45	18	81	THR
45	18	95	ASN
45	18	111	LYS
45	18	126	SER
45	18	128	LYS
45	18	132	VAL
45	18	136	LEU
45	18	146	LYS
45	18	150	LEU
45	18	153	ILE
45	18	160	ILE
45	18	163	VAL
45	18	164	VAL

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Mol	Chain	Res	Type
45	18	169	LEU
45	18	172	LYS
45	18	180	VAL
45	18	183	LYS
45	18	204	ARG
45	18	206	GLU
45	18	208	GLU
45	18	211	LEU
45	18	213	LYS
45	18	214	LEU
45	18	216	SER
45	18	230	LYS
45	18	231	LYS
45	18	238	LEU
45	18	241	LYS
45	18	245	LYS
45	18	248	LYS
46	19	4	ILE
46	19	5	GLN
46	19	6	THR
46	19	18	VAL
46	19	31	ARG
46	19	33	THR
46	19	34	LEU
46	19	43	VAL
46	19	48	VAL
46	19	55	VAL
46	19	62	ARG
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	71	VAL
46	19	80	THR
46	19	82	VAL
46	19	91	ARG
46	19	92	TYR
46	19	93	VAL
46	19	123	ILE
46	19	129	ARG
46	19	132	VAL
46	19	133	THR
46	19	134	ILE

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Mol	Chain	Res	Type
46	l9	137	SER
46	l9	138	THR
46	l9	140	VAL
46	l9	143	GLU
46	l9	144	ILE
46	l9	147	SER
46	l9	151	VAL
46	l9	152	GLU
46	l9	157	ASN
46	l9	161	LEU
46	l9	162	GLN
46	l9	163	GLN
46	l9	166	ARG
46	l9	167	VAL
46	l9	170	LYS
46	l9	173	ARG
46	l9	175	PHE
46	l9	179	ILE
46	l9	184	LYS
46	l9	191	LEU
47	m0	3	ARG
47	m0	4	ARG
47	m0	24	ARG
47	m0	26	VAL
47	m0	29	SER
47	m0	31	ILE
47	m0	32	ARG
47	m0	36	LEU
47	m0	39	LYS
47	m0	42	THR
47	m0	48	LEU
47	m0	52	LEU
47	m0	53	VAL
47	m0	58	GLU
47	m0	63	GLU
47	m0	65	LEU
47	m0	76	MET
47	m0	87	LEU
47	m0	91	VAL
47	m0	95	HIS
47	m0	99	ILE
47	m0	103	LEU

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Mol	Chain	Res	Type
47	m0	125	LEU
47	m0	130	ASP
47	m0	133	GLN
47	m0	135	ILE
47	m0	138	VAL
47	m0	144	ASN
47	m0	145	LYS
47	m0	154	ARG
47	m0	169	LYS
47	m0	170	LYS
47	m0	174	THR
47	m0	176	LEU
47	m0	177	ASP
47	m0	183	LYS
47	m0	200	LEU
47	m0	201	SER
47	m0	206	LEU
47	m0	208	ASN
47	m0	210	ILE
47	m0	211	ARG
47	m0	215	GLU
47	m0	217	PHE
48	m1	7	ASN
48	m1	10	ARG
48	m1	12	LEU
48	m1	13	LYS
48	m1	14	ILE
48	m1	16	LYS
48	m1	30	LEU
48	m1	31	THR
48	m1	34	SER
48	m1	35	LYS
48	m1	44	THR
48	m1	46	VAL
48	m1	54	VAL
48	m1	80	LEU
48	m1	85	LYS
48	m1	87	LYS
48	m1	92	ARG
48	m1	97	SER
48	m1	101	ASN
48	m1	106	ILE

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Mol	Chain	Res	Type
48	m1	107	ASP
48	m1	112	LEU
48	m1	129	VAL
48	m1	130	VAL
48	m1	142	LYS
48	m1	147	THR
48	m1	152	HIS
48	m1	153	LYS
48	m1	156	LYS
48	m1	158	ASP
48	m1	159	THR
49	m3	16	LYS
49	m3	24	VAL
49	m3	46	ILE
49	m3	53	LEU
49	m3	54	LEU
49	m3	57	VAL
49	m3	58	VAL
49	m3	59	ARG
49	m3	62	THR
49	m3	63	VAL
49	m3	67	ARG
49	m3	68	LYS
49	m3	69	VAL
49	m3	81	LYS
49	m3	100	ARG
49	m3	107	GLU
49	m3	118	GLU
49	m3	121	SER
49	m3	123	ILE
49	m3	124	ILE
49	m3	131	LYS
49	m3	138	VAL
49	m3	147	ILE
49	m3	149	GLN
49	m3	150	PRO
49	m3	152	THR
49	m3	162	ASN
49	m3	164	GLU
49	m3	168	ARG
49	m3	171	ARG
49	m3	174	ARG

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Mol	Chain	Res	Type
49	m3	176	GLU
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	8	LYS
50	m4	20	VAL
50	m4	21	VAL
50	m4	22	LEU
50	m4	24	LYS
50	m4	27	GLN
50	m4	35	ILE
50	m4	37	GLU
50	m4	41	GLN
50	m4	58	ILE
50	m4	62	GLN
50	m4	63	VAL
50	m4	64	VAL
50	m4	66	THR
50	m4	72	LEU
50	m4	90	VAL
50	m4	91	CYS
50	m4	92	GLU
50	m4	98	SER
50	m4	108	ARG
50	m4	113	THR
50	m4	124	ARG
50	m4	125	LYS
50	m4	128	ARG
50	m4	130	THR
50	m4	132	LYS
50	m4	135	LEU
51	m5	5	LYS
51	m5	8	GLU
51	m5	10	LEU
51	m5	15	GLN
51	m5	22	LEU
51	m5	24	ARG
51	m5	41	ARG
51	m5	49	ARG
51	m5	50	ARG
51	m5	67	ARG
51	m5	71	ARG

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Mol	Chain	Res	Type
51	m5	76	PRO
51	m5	80	THR
51	m5	83	LYS
51	m5	85	THR
51	m5	90	ASN
51	m5	92	LEU
51	m5	96	ARG
51	m5	98	LEU
51	m5	105	ARG
51	m5	106	VAL
51	m5	114	ARG
51	m5	134	LEU
51	m5	138	GLN
51	m5	151	ILE
51	m5	153	ASP
51	m5	155	VAL
51	m5	165	THR
51	m5	170	LYS
51	m5	171	SER
51	m5	174	ILE
51	m5	175	ASN
51	m5	176	LYS
51	m5	184	LYS
51	m5	188	ARG
51	m5	190	THR
51	m5	194	GLN
51	m5	198	SER
51	m5	204	LYS
52	m6	18	ARG
52	m6	22	VAL
52	m6	25	LYS
52	m6	34	VAL
52	m6	46	GLU
52	m6	58	LEU
52	m6	59	ARG
52	m6	67	THR
52	m6	78	ARG
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	110	PRO
52	m6	115	LYS

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Mol	Chain	Res	Type
52	m6	117	ARG
52	m6	118	VAL
52	m6	119	VAL
52	m6	124	LEU
52	m6	126	VAL
52	m6	128	ARG
52	m6	129	LEU
52	m6	130	LYS
52	m6	134	LYS
52	m6	140	LYS
52	m6	166	GLU
52	m6	170	LYS
52	m6	171	LYS
52	m6	175	THR
52	m6	182	ASN
52	m6	184	THR
52	m6	188	SER
52	m6	197	LEU
53	m7	3	ARG
53	m7	7	THR
53	m7	8	SER
53	m7	9	THR
53	m7	20	SER
53	m7	22	LEU
53	m7	24	VAL
53	m7	32	THR
53	m7	41	LEU
53	m7	53	ASP
53	m7	55	GLN
53	m7	56	ARG
53	m7	65	SER
53	m7	69	ARG
53	m7	74	LYS
53	m7	78	VAL
53	m7	79	THR
53	m7	80	LYS
53	m7	86	LYS
53	m7	89	LYS
53	m7	94	LEU
53	m7	110	THR
53	m7	112	LEU
53	m7	114	VAL

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Mol	Chain	Res	Type
53	m7	118	GLN
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	136	ILE
53	m7	142	SER
53	m7	144	SER
53	m7	146	ILE
53	m7	148	LEU
53	m7	149	VAL
53	m7	150	VAL
53	m7	153	LYS
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER
54	m8	8	LYS
54	m8	17	THR
54	m8	21	SER
54	m8	24	VAL
54	m8	26	LEU
54	m8	31	LYS
54	m8	32	LEU
54	m8	34	THR
54	m8	46	LYS
54	m8	49	LEU
54	m8	57	ILE
54	m8	64	VAL
54	m8	69	ARG
54	m8	72	LYS
54	m8	80	THR
54	m8	81	VAL
54	m8	82	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	113	LYS
54	m8	127	LEU
54	m8	132	PRO
54	m8	135	GLN
54	m8	138	LEU

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Mol	Chain	Res	Type
54	m8	139	ILE
54	m8	141	ARG
54	m8	144	ARG
54	m8	150	VAL
54	m8	161	LYS
54	m8	165	ILE
54	m8	168	THR
54	m8	178	ARG
55	m9	5	ARG
55	m9	7	GLN
55	m9	9	ARG
55	m9	10	LEU
55	m9	14	VAL
55	m9	21	LYS
55	m9	29	THR
55	m9	30	SER
55	m9	31	GLU
55	m9	36	ASN
55	m9	43	LYS
55	m9	53	LYS
55	m9	56	THR
55	m9	62	ARG
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	88	ARG
55	m9	105	LEU
55	m9	106	LEU
55	m9	127	SER
55	m9	128	LYS
55	m9	134	HIS
55	m9	138	LEU
55	m9	143	ILE
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	158	GLU
55	m9	164	LEU
55	m9	167	ARG
55	m9	171	ASP
55	m9	173	ARG
55	m9	180	LYS

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Mol	Chain	Res	Type
56	n0	1	MET
56	n0	13	ARG
56	n0	17	GLU
56	n0	21	GLU
56	n0	23	LYS
56	n0	36	ILE
56	n0	50	LYS
56	n0	52	LYS
56	n0	61	ILE
56	n0	62	ASN
56	n0	70	THR
56	n0	71	LYS
56	n0	80	ARG
56	n0	87	THR
56	n0	88	HIS
56	n0	97	VAL
56	n0	100	VAL
56	n0	104	GLU
56	n0	117	ARG
56	n0	120	SER
56	n0	125	LYS
56	n0	132	THR
56	n0	136	LYS
56	n0	137	ARG
56	n0	138	GLN
56	n0	139	TYR
56	n0	141	LYS
56	n0	145	THR
56	n0	148	LEU
56	n0	149	LYS
56	n0	155	ARG
56	n0	160	THR
56	n0	162	THR
56	n0	172	TYR
57	n1	3	LYS
57	n1	9	SER
57	n1	25	VAL
57	n1	27	LEU
57	n1	35	LYS
57	n1	64	VAL
57	n1	67	VAL
57	n1	68	THR

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Mol	Chain	Res	Type
57	n1	71	SER
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	87	LYS
57	n1	88	ARG
57	n1	89	LEU
57	n1	96	ILE
57	n1	102	ARG
57	n1	104	GLU
57	n1	118	GLU
57	n1	126	VAL
57	n1	130	ARG
57	n1	131	GLN
57	n1	135	PRO
57	n1	139	ARG
57	n1	140	ILE
57	n1	143	THR
57	n1	149	GLN
57	n1	154	VAL
57	n1	160	ILE
58	n2	13	LYS
58	n2	21	SER
58	n2	37	LEU
58	n2	39	ASP
58	n2	43	VAL
58	n2	47	VAL
58	n2	50	LEU
58	n2	54	VAL
58	n2	55	THR
58	n2	57	THR
58	n2	58	GLU
58	n2	62	VAL
58	n2	63	VAL
58	n2	64	THR
58	n2	68	THR
58	n2	90	ARG
58	n2	98	THR
58	n2	100	THR
59	n3	7	GLN
59	n3	13	ILE
59	n3	22	ILE

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Mol	Chain	Res	Type
59	n3	40	LYS
59	n3	46	LEU
59	n3	48	ARG
59	n3	64	LYS
59	n3	66	LYS
59	n3	67	PRO
59	n3	70	ARG
59	n3	72	LYS
59	n3	77	ILE
59	n3	86	ARG
59	n3	88	ARG
59	n3	98	ASN
59	n3	120	LYS
59	n3	128	ARG
59	n3	135	VAL
59	n3	136	VAL
60	n4	1	MET
60	n4	5	ILE
60	n4	19	THR
60	n4	20	LEU
60	n4	39	LEU
60	n4	43	ARG
60	n4	57	LYS
60	n4	63	ILE
60	n4	82	ILE
60	n4	89	LEU
60	n4	96	LEU
60	n4	100	VAL
60	n4	105	ARG
60	n4	107	GLU
60	n4	116	LYS
60	n4	126	GLU
60	n4	127	LYS
60	n4	135	SER
61	n5	24	LEU
61	n5	37	THR
61	n5	39	LYS
61	n5	51	VAL
61	n5	52	PRO
61	n5	56	ARG
61	n5	63	ILE
61	n5	64	GLU

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Mol	Chain	Res	Type
61	n5	70	GLU
61	n5	71	THR
61	n5	73	MET
61	n5	74	LYS
61	n5	83	VAL
61	n5	86	VAL
61	n5	101	GLU
61	n5	108	LEU
61	n5	109	LYS
61	n5	113	LEU
61	n5	115	ARG
61	n5	124	VAL
61	n5	125	ARG
61	n5	127	THR
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	14	LYS
62	n6	17	LYS
62	n6	37	LYS
62	n6	39	LEU
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	51	ARG
62	n6	52	ARG
62	n6	56	VAL
62	n6	57	LEU
62	n6	60	ARG
62	n6	66	GLN
62	n6	70	ILE
62	n6	76	LEU
62	n6	77	LYS
62	n6	80	VAL
62	n6	81	GLN
62	n6	90	VAL
62	n6	94	SER
62	n6	95	VAL
62	n6	97	ILE

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Mol	Chain	Res	Type
62	n6	112	ASP
62	n6	115	ARG
62	n6	120	GLN
63	n7	3	LYS
63	n7	5	LEU
63	n7	17	ARG
63	n7	24	VAL
63	n7	26	VAL
63	n7	30	ASP
63	n7	31	GLU
63	n7	36	HIS
63	n7	43	VAL
63	n7	46	ILE
63	n7	52	LYS
63	n7	53	VAL
63	n7	54	THR
63	n7	70	PRO
63	n7	72	ILE
63	n7	75	VAL
63	n7	81	LEU
63	n7	83	THR
63	n7	86	THR
63	n7	95	VAL
63	n7	98	THR
63	n7	99	GLU
63	n7	100	THR
63	n7	103	GLN
63	n7	105	SER
63	n7	121	ARG
63	n7	127	ASN
63	n7	134	LEU
64	n8	6	THR
64	n8	8	THR
64	n8	10	LYS
64	n8	14	HIS
64	n8	22	ILE
64	n8	25	HIS
64	n8	27	LYS
64	n8	34	MET
64	n8	42	ARG
64	n8	44	ASN
64	n8	46	ASP

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Mol	Chain	Res	Type
64	n8	47	LYS
64	n8	65	GLN
64	n8	72	VAL
64	n8	82	ILE
64	n8	85	ASP
64	n8	91	LEU
64	n8	97	GLU
64	n8	115	LYS
64	n8	118	ILE
64	n8	126	LYS
64	n8	130	VAL
64	n8	132	LYS
64	n8	133	LEU
65	n9	8	THR
65	n9	13	THR
65	n9	19	ASN
65	n9	21	ILE
65	n9	22	LYS
65	n9	23	LYS
65	n9	26	THR
65	n9	33	LYS
65	n9	38	LYS
65	n9	47	LEU
65	n9	50	THR
65	n9	52	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	6	SER
66	o0	8	GLU
66	o0	14	LEU
66	o0	18	ILE
66	o0	32	LYS
66	o0	33	SER
66	o0	34	LEU
66	o0	41	LEU
66	o0	55	GLU
66	o0	61	MET
66	o0	68	TYR
66	o0	76	GLU
66	o0	81	VAL
66	o0	84	LEU
66	o0	86	ARG

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Mol	Chain	Res	Type
66	o0	87	VAL
66	o0	99	ASP
67	o1	6	ASP
67	o1	8	VAL
67	o1	13	THR
67	o1	16	LEU
67	o1	18	LYS
67	o1	24	SER
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	42	LEU
67	o1	44	MET
67	o1	55	LEU
67	o1	57	GLN
67	o1	61	LYS
67	o1	64	VAL
67	o1	67	VAL
67	o1	68	GLU
67	o1	76	SER
67	o1	82	GLU
67	o1	89	LEU
67	o1	93	VAL
67	o1	94	GLU
67	o1	96	VAL
67	o1	100	SER
67	o1	102	LYS
67	o1	106	THR
67	o1	107	VAL
67	o1	110	GLU
67	o1	111	GLU
68	o2	4	LEU
68	o2	15	LYS
68	o2	27	ARG
68	o2	33	ARG
68	o2	34	LYS
68	o2	35	GLN
68	o2	38	ILE
68	o2	44	ARG
68	o2	51	SER
68	o2	54	LYS
68	o2	62	LYS

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Mol	Chain	Res	Type
68	o2	66	LEU
68	o2	73	THR
68	o2	75	LEU
68	o2	76	VAL
68	o2	82	LEU
68	o2	101	SER
68	o2	106	VAL
68	o2	109	LEU
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	9	VAL
69	o3	20	LYS
69	o3	31	LYS
69	o3	49	ILE
69	o3	57	LYS
69	o3	58	GLU
69	o3	60	ARG
69	o3	70	LYS
69	o3	74	THR
69	o3	81	VAL
69	o3	84	THR
69	o3	98	VAL
69	o3	107	ILE
70	o4	9	ARG
70	o4	20	ILE
70	o4	21	LYS
70	o4	23	VAL
70	o4	24	LYS
70	o4	30	LEU
70	o4	36	LYS
70	o4	54	ILE
70	o4	58	ARG
70	o4	65	VAL
70	o4	79	SER
70	o4	85	VAL
70	o4	86	LYS
70	o4	98	GLN
70	o4	102	LYS
70	o4	104	VAL
71	o5	4	VAL
71	o5	15	GLU

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Mol	Chain	Res	Type
71	o5	21	LEU
71	o5	25	LYS
71	o5	27	GLU
71	o5	28	LEU
71	o5	31	LEU
71	o5	40	SER
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	49	LYS
71	o5	50	SER
71	o5	57	VAL
71	o5	62	GLN
71	o5	81	ARG
71	o5	85	THR
71	o5	89	ARG
71	o5	90	ARG
71	o5	99	GLN
71	o5	101	THR
71	o5	113	GLN
71	o5	115	LYS
71	o5	119	LYS
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	11	LEU
72	o6	12	ASN
72	o6	17	VAL
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	35	ASN
72	o6	36	ARG
72	o6	43	LEU
72	o6	45	ARG
72	o6	52	PRO
72	o6	57	LEU
72	o6	58	ILE
72	o6	60	LEU
72	o6	62	ARG
72	o6	68	ARG
72	o6	79	SER

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Mol	Chain	Res	Type
72	o6	81	THR
72	o6	84	LYS
72	o6	94	ILE
72	o6	98	ARG
73	o7	3	LYS
73	o7	7	SER
73	o7	17	THR
73	o7	21	ARG
73	o7	25	ARG
73	o7	33	THR
73	o7	44	THR
73	o7	46	SER
73	o7	55	ARG
73	o7	59	THR
73	o7	64	MET
73	o7	65	ARG
73	o7	67	LEU
73	o7	68	LYS
73	o7	74	PHE
73	o7	80	THR
73	o7	84	SER
74	o8	5	ILE
74	o8	8	ILE
74	o8	12	LEU
74	o8	16	ARG
74	o8	17	ARG
74	o8	24	THR
74	o8	25	VAL
74	o8	29	LYS
74	o8	41	THR
74	o8	49	SER
74	o8	53	THR
74	o8	55	VAL
74	o8	56	ILE
74	o8	61	LYS
74	o8	63	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	67	GLN
74	o8	72	THR
75	o9	4	GLN
75	o9	5	LYS

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Mol	Chain	Res	Type
75	o9	21	ARG
75	o9	23	LEU
75	o9	29	LEU
75	o9	51	ILE
76	q0	77	ILE
76	q0	78	ILE
76	q0	81	SER
76	q0	83	LYS
76	q0	85	LEU
76	q0	90	ASN
76	q0	91	CYS
76	q0	92	ASP
76	q0	93	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	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	14	LYS
77	q1	19	LYS
77	q1	21	ARG
77	q1	23	ARG
78	q2	4	VAL
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	10	THR
78	q2	16	THR
78	q2	38	GLN
78	q2	41	ARG
78	q2	47	GLN
78	q2	61	LYS
78	q2	71	ARG
78	q2	78	LYS
78	q2	80	ARG
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU

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Mol	Chain	Res	Type
78	q2	89	LYS
78	q2	91	PHE
78	q2	93	LEU
78	q2	98	LYS
78	q2	100	LYS
78	q2	104	LEU
78	q2	105	GLN
79	q3	3	LYS
79	q3	6	LYS
79	q3	10	ILE
79	q3	16	VAL
79	q3	21	SER
79	q3	24	ARG
79	q3	26	VAL
79	q3	42	CYS
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	59	CYS
79	q3	60	CYS
79	q3	62	LYS
79	q3	70	THR
79	q3	73	THR
79	q3	81	SER
79	q3	82	THR
79	q3	84	ARG
84	p0	4	ILE
84	p0	10	GLU
84	p0	15	LEU
84	p0	17	GLU
84	p0	25	LEU
84	p0	50	VAL
84	p0	51	VAL
84	p0	55	LYS
84	p0	56	ASN
84	p0	67	LEU
84	p0	68	SER
84	p0	69	ASP
84	p0	70	LEU
84	p0	76	LEU
84	p0	81	LYS

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Mol	Chain	Res	Type
84	p0	84	VAL
84	p0	91	GLU
84	p0	93	LEU
84	p0	104	ARG
84	p0	185	LEU
84	p0	188	VAL
84	p0	196	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (205) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	83	GLN
2	S0	164	ASN
3	S1	95	ASN
3	S1	146	GLN
4	S2	59	HIS
4	S2	150	GLN
5	S3	62	ASN
6	S4	50	ASN
6	S4	157	ASN
6	S4	224	ASN
7	S5	79	ASN
7	S5	103	ASN
7	S5	186	ASN
8	S6	59	GLN
8	S6	65	GLN
9	S7	71	HIS
9	S7	74	GLN
9	S7	108	GLN
9	S7	147	ASN
9	S7	180	GLN
10	S8	32	GLN
10	S8	175	GLN
11	S9	110	GLN
11	S9	123	HIS
13	C1	92	HIS
13	C1	110	HIS
14	C2	80	ASN
15	C3	105	ASN
15	C3	123	HIS
17	C5	103	ASN
20	C8	13	HIS

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Mol	Chain	Res	Type
20	C8	25	ASN
20	C8	99	HIS
20	C8	136	GLN
21	C9	48	GLN
22	D0	17	GLN
22	D0	47	GLN
22	D0	98	GLN
23	D1	3	ASN
23	D1	33	GLN
23	D1	74	GLN
24	D2	70	ASN
25	D3	48	HIS
27	D5	95	HIS
27	D5	98	GLN
28	D6	17	HIS
28	D6	72	HIS
29	D7	9	HIS
29	D7	49	HIS
29	D7	51	GLN
33	E1	151	ASN
34	SR	174	ASN
34	SR	195	HIS
34	SR	268	GLN
35	SM	108	GLN
39	L2	132	ASN
39	L2	209	HIS
40	L3	11	HIS
40	L3	121	ASN
40	L3	177	HIS
40	L3	256	HIS
41	L4	48	GLN
41	L4	114	ASN
41	L4	279	HIS
41	L4	311	HIS
42	L5	40	HIS
42	L5	63	GLN
42	L5	81	HIS
42	L5	151	GLN
44	L7	225	GLN
44	L7	244	ASN
45	L8	41	GLN
46	L9	8	GLN

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Mol	Chain	Res	Type
46	L9	50	ASN
46	L9	139	ASN
47	M0	12	GLN
47	M0	23	ASN
47	M0	59	GLN
48	M1	68	HIS
48	M1	95	ASN
49	M3	25	HIS
52	M6	31	GLN
53	M7	34	GLN
53	M7	120	ASN
54	M8	58	ASN
54	M8	145	ASN
54	M8	152	HIS
55	M9	166	ASN
56	N0	46	GLN
57	N1	131	GLN
58	N2	87	ASN
59	N3	98	ASN
59	N3	132	ASN
60	N4	33	ASN
62	N6	26	GLN
62	N6	110	HIS
63	N7	127	ASN
64	N8	11	HIS
64	N8	74	ASN
65	N9	17	HIS
65	N9	45	HIS
67	O1	17	HIS
68	O2	35	GLN
68	O2	49	ASN
68	O2	104	ASN
69	O3	39	GLN
69	O3	106	ASN
71	O5	20	GLN
75	O9	4	GLN
75	O9	25	GLN
78	Q2	23	HIS
78	Q2	53	GLN
79	Q3	25	GLN
2	s0	46	HIS
2	s0	131	GLN

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Mol	Chain	Res	Type
2	s0	140	ASN
3	s1	209	ASN
4	s2	150	GLN
4	s2	199	GLN
4	s2	201	ASN
4	s2	250	GLN
6	s4	17	HIS
6	s4	98	ASN
6	s4	188	ASN
6	s4	216	ASN
7	s5	66	GLN
7	s5	79	ASN
7	s5	104	ASN
7	s5	158	GLN
7	s5	170	GLN
7	s5	224	ASN
9	s7	86	GLN
9	s7	147	ASN
9	s7	174	ASN
11	s9	110	GLN
81	c0	32	HIS
18	c6	93	HIS
19	c7	74	GLN
20	c8	25	ASN
20	c8	90	ASN
20	c8	103	ASN
20	c8	136	GLN
21	c9	101	ASN
22	d0	72	ASN
24	d2	56	HIS
24	d2	113	HIS
27	d5	44	GLN
29	d7	26	GLN
31	d9	53	ASN
32	e0	17	GLN
33	e1	145	HIS
34	sR	29	GLN
34	sR	185	GLN
34	sR	288	HIS
82	sM	70	ASN
82	sM	71	ASN
39	l2	83	HIS

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Mol	Chain	Res	Type
39	l2	132	ASN
39	l2	215	ASN
40	l3	109	HIS
41	l4	9	HIS
41	l4	45	ASN
41	l4	115	HIS
41	l4	116	ASN
41	l4	213	ASN
42	l5	4	GLN
42	l5	264	GLN
42	l5	297	GLN
44	l7	64	GLN
44	l7	93	ASN
45	l8	243	GLN
46	l9	59	ASN
46	l9	162	GLN
47	m0	14	ASN
49	m3	120	GLN
51	m5	156	HIS
52	m6	31	GLN
52	m6	122	GLN
54	m8	126	GLN
54	m8	152	HIS
55	m9	7	GLN
55	m9	92	GLN
56	n0	8	GLN
56	n0	138	GLN
57	n1	131	GLN
60	n4	42	GLN
62	n6	120	GLN
64	n8	28	HIS
64	n8	44	ASN
64	n8	49	HIS
66	o0	47	ASN
67	o1	17	HIS
68	o2	49	ASN
68	o2	104	ASN
71	o5	104	GLN
71	o5	108	GLN
71	o5	113	GLN
73	o7	12	HIS
78	q2	27	GLN

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Mol	Chain	Res	Type
78	q2	47	GLN
78	q2	59	HIS
84	p0	32	ASN
84	p0	56	ASN
84	p0	83	ASN
84	p0	193	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1776/1829 (97%)	521 (29%)	70 (3%)
36	1	3145/3394 (92%)	773 (24%)	87 (2%)
36	5	3145/3394 (92%)	780 (24%)	92 (2%)
37	3	120/121 (99%)	22 (18%)	3 (2%)
37	7	120/121 (99%)	23 (19%)	1 (0%)
38	4	157/158 (99%)	43 (27%)	4 (2%)
38	8	157/158 (99%)	40 (25%)	3 (1%)
80	6	1792/1800 (99%)	492 (27%)	67 (3%)
86	A	1/3 (33%)	0	0
86	B	1/3 (33%)	0	0
All	All	10414/10981 (94%)	2694 (25%)	327 (3%)

All (2694) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	39	A
1	2	45	U
1	2	46	A
1	2	47	A
1	2	50	C
1	2	57	G
1	2	60	U
1	2	67	A
1	2	68	A

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Mol	Chain	Res	Type
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	77	U
1	2	95	G
1	2	101	U
1	2	104	A
1	2	111	U
1	2	114	C
1	2	115	G
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
1	2	144	U
1	2	145	A
1	2	146	U
1	2	158	U
1	2	159	U
1	2	161	U
1	2	169	A
1	2	175	G
1	2	178	U
1	2	185	U
1	2	186	C
1	2	187	G
1	2	188	A
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	197	A
1	2	198	A

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Mol	Chain	Res	Type
1	2	200	A
1	2	207	U
1	2	215	A
1	2	217	A
1	2	218	A
1	2	219	A
1	2	220	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	238	U
1	2	240	U
1	2	241	U
1	2	242	U
1	2	249	U
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	262	U
1	2	265	A
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	308	C
1	2	309	C
1	2	314	C
1	2	316	A

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Mol	Chain	Res	Type
1	2	319	U
1	2	321	C
1	2	322	G
1	2	333	A
1	2	337	G
1	2	338	C
1	2	341	A
1	2	344	A
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	380	U
1	2	390	G
1	2	393	C
1	2	399	A
1	2	400	A
1	2	401	A
1	2	402	C
1	2	403	G
1	2	404	G
1	2	416	A
1	2	418	G
1	2	419	G
1	2	421	A
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	434	G
1	2	435	C
1	2	437	A
1	2	439	U
1	2	444	C
1	2	448	C
1	2	452	A
1	2	455	C
1	2	468	A
1	2	469	C
1	2	471	A
1	2	475	A

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Mol	Chain	Res	Type
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	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	508	U
1	2	510	G
1	2	511	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	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	545	A
1	2	548	G
1	2	554	C
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U

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Mol	Chain	Res	Type
1	2	559	C
1	2	565	C
1	2	572	C
1	2	575	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	582	U
1	2	585	A
1	2	594	A
1	2	595	G
1	2	609	U
1	2	610	G
1	2	617	U
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	628	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	657	U
1	2	658	C
1	2	677	G
1	2	679	U
1	2	680	U
1	2	682	C
1	2	684	A
1	2	685	A
1	2	686	C
1	2	687	G
1	2	690	G
1	2	692	C
1	2	694	U
1	2	696	C
1	2	697	C
1	2	700	C

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Mol	Chain	Res	Type
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	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
1	2	725	U
1	2	727	U
1	2	728	U
1	2	730	G
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	754	A
1	2	755	A
1	2	756	A
1	2	758	U
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	778	G
1	2	780	A
1	2	781	U

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Mol	Chain	Res	Type
1	2	782	U
1	2	783	G
1	2	784	C
1	2	793	A
1	2	794	U
1	2	795	U
1	2	803	A
1	2	806	A
1	2	812	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	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U
1	2	834	G
1	2	837	G
1	2	840	U
1	2	841	U
1	2	846	G
1	2	848	C
1	2	856	A
1	2	860	U
1	2	863	A
1	2	864	U
1	2	876	G
1	2	886	U
1	2	896	U
1	2	898	A
1	2	910	C
1	2	912	U
1	2	913	G
1	2	914	G
1	2	916	U
1	2	921	U
1	2	928	U
1	2	933	A

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Mol	Chain	Res	Type
1	2	935	U
1	2	942	G
1	2	944	A
1	2	945	U
1	2	951	A
1	2	959	U
1	2	960	U
1	2	966	A
1	2	988	A
1	2	992	A
1	2	993	A
1	2	995	A
1	2	997	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1020	A
1	2	1021	C
1	2	1025	A
1	2	1026	A
1	2	1028	C
1	2	1029	U
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	1086	A
1	2	1091	A
1	2	1092	A
1	2	1096	C
1	2	1097	U
1	2	1100	G

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Mol	Chain	Res	Type
1	2	1109	G
1	2	1111	G
1	2	1138	A
1	2	1139	A
1	2	1143	A
1	2	1146	G
1	2	1149	G
1	2	1150	G
1	2	1151	A
1	2	1157	A
1	2	1158	C
1	2	1160	A
1	2	1162	C
1	2	1164	G
1	2	1167	G
1	2	1168	U
1	2	1185	U
1	2	1188	G
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1197	C
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1203	A
1	2	1207	C
1	2	1208	A
1	2	1217	A
1	2	1218	G
1	2	1226	A
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1238	A
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1250	U
1	2	1251	U
1	2	1256	A
1	2	1257	U

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Mol	Chain	Res	Type
1	2	1258	U
1	2	1271	G
1	2	1275	A
1	2	1286	U
1	2	1301	U
1	2	1314	U
1	2	1315	U
1	2	1321	A
1	2	1334	U
1	2	1337	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1349	G
1	2	1354	G
1	2	1361	U
1	2	1362	U
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1388	A
1	2	1390	U
1	2	1398	U
1	2	1399	C
1	2	1412	G
1	2	1413	U
1	2	1415	U
1	2	1427	A
1	2	1428	G
1	2	1432	U
1	2	1435	G
1	2	1446	A
1	2	1448	G
1	2	1449	U
1	2	1457	C
1	2	1458	G
1	2	1459	C
1	2	1462	G

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Mol	Chain	Res	Type
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1475	A
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	1499	G
1	2	1506	G
1	2	1514	U
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1518	C
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1539	G
1	2	1545	A
1	2	1550	A
1	2	1557	U
1	2	1559	A
1	2	1569	A
1	2	1572	G
1	2	1573	A
1	2	1574	G
1	2	1584	G
1	2	1600	A
1	2	1601	G
1	2	1604	U
1	2	1616	G
1	2	1619	C
1	2	1624	C

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Mol	Chain	Res	Type
1	2	1625	C
1	2	1626	U
1	2	1631	A
1	2	1636	C
1	2	1657	U
1	2	1658	G
1	2	1673	G
1	2	1680	G
1	2	1681	A
1	2	1683	C
1	2	1684	U
1	2	1731	A
1	2	1745	G
1	2	1749	A
1	2	1759	C
1	2	1760	G
1	2	1761	U
1	2	1762	A
1	2	1766	A
1	2	1768	G
1	2	1769	U
1	2	1770	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	1795	U
1	2	1796	C
1	2	1798	U
1	2	1806	A
1	2	1809	G
1	2	1810	G
1	2	1811	G
1	2	1812	G
1	2	1813	C
1	2	1814	A
1	2	1815	A
1	2	1825	A
1	2	1826	G

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Mol	Chain	Res	Type
1	2	1828	G
36	1	6	A
36	1	13	A
36	1	14	U
36	1	15	C
36	1	24	G
36	1	26	A
36	1	40	A
36	1	43	A
36	1	49	A
36	1	57	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	68	C
36	1	69	C
36	1	70	A
36	1	73	C
36	1	76	G
36	1	92	G
36	1	93	C
36	1	94	G
36	1	99	A
36	1	108	A
36	1	109	A
36	1	110	G
36	1	111	C
36	1	116	A
36	1	117	U
36	1	119	U
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	161	G
36	1	166	C

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Mol	Chain	Res	Type
36	1	169	U
36	1	170	G
36	1	173	G
36	1	182	U
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	200	C
36	1	210	U
36	1	211	A
36	1	218	G
36	1	219	A
36	1	222	A
36	1	224	C
36	1	228	U
36	1	238	A
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	249	U
36	1	250	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	301	G
36	1	315	C
36	1	323	A
36	1	329	U
36	1	338	A
36	1	339	C
36	1	343	U
36	1	344	A
36	1	349	A
36	1	350	C
36	1	352	A

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Mol	Chain	Res	Type
36	1	370	U
36	1	376	G
36	1	397	A
36	1	398	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	412	G
36	1	414	U
36	1	421	G
36	1	422	A
36	1	425	G
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	497	C
36	1	498	A
36	1	503	C
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	553	U
36	1	555	U
36	1	557	A
36	1	558	U
36	1	559	A
36	1	569	A
36	1	578	A
36	1	579	G
36	1	580	C
36	1	589	A
36	1	592	A
36	1	594	U
36	1	595	G
36	1	604	G

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Mol	Chain	Res	Type
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	637	C
36	1	638	C
36	1	639	G
36	1	642	U
36	1	649	A
36	1	657	A
36	1	660	A
36	1	661	G
36	1	677	A
36	1	681	U
36	1	682	U
36	1	691	A
36	1	705	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	719	U
36	1	725	G
36	1	726	G
36	1	758	C
36	1	759	U
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U
36	1	776	U
36	1	777	U
36	1	779	G
36	1	781	G
36	1	785	G
36	1	787	G
36	1	803	C
36	1	806	A
36	1	810	A
36	1	816	A

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Mol	Chain	Res	Type
36	1	817	A
36	1	830	A
36	1	835	G
36	1	849	C
36	1	860	G
36	1	861	C
36	1	862	U
36	1	874	U
36	1	879	U
36	1	887	G
36	1	890	C
36	1	896	A
36	1	907	G
36	1	908	G
36	1	913	A
36	1	914	A
36	1	916	G
36	1	917	A
36	1	921	A
36	1	923	C
36	1	924	G
36	1	937	G
36	1	938	C
36	1	943	U
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	963	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	997	A
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1010	G
36	1	1017	C
36	1	1018	G

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Mol	Chain	Res	Type
36	1	1020	G
36	1	1021	G
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1032	C
36	1	1035	G
36	1	1036	A
36	1	1037	C
36	1	1041	U
36	1	1045	C
36	1	1046	A
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1057	A
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1079	A
36	1	1081	U
36	1	1082	U
36	1	1083	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	1111	U
36	1	1113	G
36	1	1117	G
36	1	1129	A
36	1	1131	G
36	1	1144	U
36	1	1153	A
36	1	1159	A
36	1	1160	C
36	1	1162	U

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Mol	Chain	Res	Type
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	1196	C
36	1	1197	A
36	1	1200	A
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1216	C
36	1	1218	U
36	1	1221	A
36	1	1222	G
36	1	1227	C
36	1	1232	C
36	1	1233	G
36	1	1235	U
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1242	G
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	1254	C
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

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Mol	Chain	Res	Type
36	1	1272	C
36	1	1274	A
36	1	1277	C
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G
36	1	1287	A
36	1	1292	C
36	1	1305	U
36	1	1307	G
36	1	1308	A
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	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1369	A
36	1	1386	A
36	1	1387	G
36	1	1392	G
36	1	1398	U
36	1	1399	A
36	1	1400	G
36	1	1406	A
36	1	1416	C
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1422	G
36	1	1429	G
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1437	C

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Mol	Chain	Res	Type
36	1	1443	G
36	1	1446	A
36	1	1453	A
36	1	1467	A
36	1	1468	A
36	1	1481	A
36	1	1482	A
36	1	1484	U
36	1	1485	G
36	1	1488	G
36	1	1502	C
36	1	1507	G
36	1	1508	C
36	1	1512	U
36	1	1527	C
36	1	1533	U
36	1	1543	G
36	1	1549	U
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1559	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	1572	U
36	1	1576	G
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1607	U
36	1	1608	C
36	1	1609	C

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Mol	Chain	Res	Type
36	1	1620	U
36	1	1629	U
36	1	1632	A
36	1	1639	C
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1665	C
36	1	1683	A
36	1	1702	U
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1736	G
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1761	C
36	1	1762	C
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1768	U
36	1	1770	G
36	1	1780	G
36	1	1781	C
36	1	1793	C
36	1	1795	U
36	1	1796	G
36	1	1797	A
36	1	1805	C
36	1	1808	G
36	1	1810	A
36	1	1812	G
36	1	1813	A
36	1	1814	A
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U

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Mol	Chain	Res	Type
36	1	1835	A
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1846	C
36	1	1847	A
36	1	1849	C
36	1	1850	A
36	1	1855	U
36	1	1857	C
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1901	A
36	1	1906	G
36	1	1929	G
36	1	1932	A
36	1	1948	G
36	1	1951	C
36	1	1952	G
36	1	1954	G
36	1	2094	C
36	1	2101	C
36	1	2102	U
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2116	G
36	1	2121	G
36	1	2122	G
36	1	2126	A
36	1	2131	A
36	1	2140	U
36	1	2144	A
36	1	2145	A
36	1	2158	A
36	1	2164	A
36	1	2165	G
36	1	2166	A
36	1	2169	G
36	1	2170	U
36	1	2171	G

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Mol	Chain	Res	Type
36	1	2176	U
36	1	2177	G
36	1	2185	G
36	1	2187	G
36	1	2198	A
36	1	2201	G
36	1	2205	U
36	1	2206	G
36	1	2209	U
36	1	2210	G
36	1	2215	A
36	1	2223	A
36	1	2225	U
36	1	2228	A
36	1	2242	A
36	1	2244	A
36	1	2246	G
36	1	2249	G
36	1	2250	G
36	1	2252	A
36	1	2255	A
36	1	2256	A
36	1	2272	G
36	1	2273	G
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2284	C
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	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

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Mol	Chain	Res	Type
36	1	2397	A
36	1	2398	A
36	1	2400	G
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2404	A
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2435	G
36	1	2437	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2507	C
36	1	2513	U
36	1	2514	U
36	1	2515	A
36	1	2520	A
36	1	2522	G
36	1	2523	A
36	1	2525	G
36	1	2526	C
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	2554	A
36	1	2555	G

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Mol	Chain	Res	Type
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	2576	G
36	1	2580	A
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
36	1	2617	U
36	1	2619	G
36	1	2629	U
36	1	2633	U
36	1	2637	A
36	1	2639	G
36	1	2648	G
36	1	2652	U
36	1	2656	A
36	1	2674	A
36	1	2676	A
36	1	2677	G
36	1	2689	A
36	1	2690	G
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2703	A
36	1	2706	G
36	1	2707	C
36	1	2708	C
36	1	2709	C
36	1	2714	G
36	1	2719	U

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Mol	Chain	Res	Type
36	1	2720	G
36	1	2728	G
36	1	2729	U
36	1	2737	C
36	1	2749	G
36	1	2752	U
36	1	2753	G
36	1	2755	C
36	1	2758	A
36	1	2772	C
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2796	G
36	1	2797	C
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2803	A
36	1	2810	C
36	1	2814	G
36	1	2816	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2830	G
36	1	2834	G
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2849	C
36	1	2853	A
36	1	2856	G
36	1	2858	U
36	1	2860	U
36	1	2867	C
36	1	2871	G
36	1	2872	A
36	1	2873	U
36	1	2875	U
36	1	2876	C
36	1	2886	U

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Mol	Chain	Res	Type
36	1	2887	A
36	1	2898	G
36	1	2899	C
36	1	2912	G
36	1	2914	G
36	1	2922	G
36	1	2923	U
36	1	2935	U
36	1	2936	A
36	1	2937	G
36	1	2942	C
36	1	2943	G
36	1	2944	U
36	1	2946	A
36	1	2947	G
36	1	2963	C
36	1	2971	A
36	1	2974	U
36	1	2983	C
36	1	2990	G
36	1	2997	G
36	1	3001	C
36	1	3006	A
36	1	3012	A
36	1	3025	C
36	1	3030	G
36	1	3031	G
36	1	3040	A
36	1	3056	U
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3081	C
36	1	3086	A
36	1	3087	A
36	1	3091	A
36	1	3092	C
36	1	3093	C
36	1	3104	U

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Mol	Chain	Res	Type
36	1	3113	A
36	1	3119	U
36	1	3122	A
36	1	3123	A
36	1	3130	A
36	1	3131	U
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3150	A
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	3158	G
36	1	3164	C
36	1	3165	A
36	1	3168	A
36	1	3169	U
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3180	A
36	1	3181	C
36	1	3184	A
36	1	3187	A
36	1	3195	U
36	1	3196	U
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	3220	G
36	1	3228	C
36	1	3229	G

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Mol	Chain	Res	Type
36	1	3235	C
36	1	3242	G
36	1	3243	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3259	U
36	1	3260	G
36	1	3263	G
36	1	3269	U
36	1	3270	U
36	1	3272	C
36	1	3273	A
36	1	3276	G
36	1	3277	U
36	1	3279	A
36	1	3280	U
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3288	G
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	3307	A
36	1	3309	G
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3331	U
36	1	3334	U
36	1	3335	A
36	1	3341	U
36	1	3342	A
36	1	3345	G
36	1	3347	A
36	1	3349	C

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Mol	Chain	Res	Type
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	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3381	U
36	1	3382	U
36	1	3383	G
36	1	3386	G
36	1	3389	U
36	1	3390	G
36	1	3391	A
36	1	3396	U
37	3	4	U
37	3	7	G
37	3	11	A
37	3	13	A
37	3	14	U
37	3	22	A
37	3	36	C
37	3	40	C
37	3	41	G
37	3	47	C
37	3	51	A
37	3	53	U
37	3	54	U
37	3	65	G
37	3	74	C
37	3	76	A
37	3	91	G
37	3	101	G
37	3	102	A
37	3	106	U
37	3	112	G
37	3	121	U
38	4	2	A
38	4	10	A

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Mol	Chain	Res	Type
38	4	25	G
38	4	34	U
38	4	35	C
38	4	48	A
38	4	51	G
38	4	52	A
38	4	57	C
38	4	59	A
38	4	60	U
38	4	62	C
38	4	63	G
38	4	69	U
38	4	71	A
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	87	G
38	4	90	U
38	4	95	G
38	4	97	A
38	4	98	U
38	4	100	U
38	4	102	U
38	4	104	A
38	4	105	A
38	4	106	C
38	4	111	A
38	4	112	U
38	4	113	U
38	4	125	U
38	4	126	A
38	4	127	U
38	4	138	A
38	4	152	G
38	4	155	A
38	4	158	U
80	6	2	A

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Mol	Chain	Res	Type
80	6	4	C
80	6	17	C
80	6	25	C
80	6	26	A
80	6	27	U
80	6	34	G
80	6	47	A
80	6	57	G
80	6	66	U
80	6	67	A
80	6	68	A
80	6	72	A
80	6	73	U
80	6	75	U
80	6	76	A
80	6	77	U
80	6	87	C
80	6	100	A
80	6	103	A
80	6	104	A
80	6	114	C
80	6	126	A
80	6	127	G
80	6	132	U
80	6	137	U
80	6	138	A
80	6	140	A
80	6	141	U
80	6	144	U
80	6	145	A
80	6	146	U
80	6	153	G
80	6	158	U
80	6	159	U
80	6	166	C
80	6	175	G
80	6	178	U
80	6	179	A
80	6	181	A
80	6	185	U
80	6	188	A
80	6	190	C

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Mol	Chain	Res	Type
80	6	191	C
80	6	192	U
80	6	193	U
80	6	194	U
80	6	195	G
80	6	197	A
80	6	199	G
80	6	200	A
80	6	215	A
80	6	216	U
80	6	217	A
80	6	218	A
80	6	219	A
80	6	220	A
80	6	222	A
80	6	226	A
80	6	227	U
80	6	228	G
80	6	229	U
80	6	230	C
80	6	232	U
80	6	233	C
80	6	235	G
80	6	238	U
80	6	240	U
80	6	241	U
80	6	250	C
80	6	260	U
80	6	261	U
80	6	265	A
80	6	266	A
80	6	268	C
80	6	269	G
80	6	271	A
80	6	272	U
80	6	273	G
80	6	275	C
80	6	276	C
80	6	277	U
80	6	278	U
80	6	280	U
80	6	287	G

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Mol	Chain	Res	Type
80	6	294	C
80	6	295	A
80	6	299	A
80	6	301	A
80	6	304	U
80	6	309	C
80	6	310	C
80	6	314	C
80	6	316	A
80	6	319	U
80	6	320	U
80	6	321	C
80	6	322	G
80	6	330	G
80	6	333	A
80	6	337	G
80	6	338	C
80	6	341	A
80	6	352	A
80	6	359	A
80	6	360	A
80	6	361	C
80	6	374	U
80	6	381	C
80	6	400	A
80	6	401	A
80	6	402	C
80	6	403	G
80	6	404	G
80	6	405	C
80	6	416	A
80	6	418	G
80	6	424	C
80	6	425	A
80	6	426	G
80	6	434	G
80	6	439	U
80	6	444	C
80	6	448	C
80	6	452	A
80	6	454	U
80	6	459	G

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Mol	Chain	Res	Type
80	6	468	A
80	6	470	A
80	6	475	A
80	6	477	A
80	6	480	G
80	6	484	C
80	6	485	A
80	6	486	G
80	6	487	G
80	6	488	G
80	6	489	C
80	6	490	C
80	6	492	A
80	6	493	U
80	6	494	U
80	6	495	C
80	6	496	G
80	6	497	G
80	6	500	C
80	6	501	U
80	6	504	U
80	6	505	A
80	6	506	A
80	6	508	U
80	6	510	G
80	6	511	A
80	6	512	A
80	6	513	U
80	6	514	G
80	6	515	A
80	6	519	C
80	6	520	A
80	6	527	A
80	6	538	A
80	6	539	G
80	6	540	G
80	6	541	A
80	6	542	A
80	6	543	C
80	6	544	A
80	6	555	A
80	6	556	A

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Mol	Chain	Res	Type
80	6	557	G
80	6	558	U
80	6	559	C
80	6	565	C
80	6	570	A
80	6	574	G
80	6	577	G
80	6	578	U
80	6	579	A
80	6	580	A
80	6	582	U
80	6	594	A
80	6	595	G
80	6	609	U
80	6	610	G
80	6	611	U
80	6	617	U
80	6	619	A
80	6	620	A
80	6	622	A
80	6	623	A
80	6	624	G
80	6	634	G
80	6	635	A
80	6	637	C
80	6	639	U
80	6	640	U
80	6	648	G
80	6	652	G
80	6	653	C
80	6	654	C
80	6	658	C
80	6	661	A
80	6	662	U
80	6	665	U
80	6	667	U
80	6	668	C
80	6	669	G
80	6	670	U
80	6	676	G
80	6	678	A
80	6	679	U

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Mol	Chain	Res	Type
80	6	680	U
80	6	681	U
80	6	682	C
80	6	683	C
80	6	684	A
80	6	685	A
80	6	687	G
80	6	691	C
80	6	695	U
80	6	696	C
80	6	697	C
80	6	698	U
80	6	710	U
80	6	711	U
80	6	714	G
80	6	718	U
80	6	719	U
80	6	720	G
80	6	721	U
80	6	722	G
80	6	723	G
80	6	730	G
80	6	742	U
80	6	751	G
80	6	754	A
80	6	755	A
80	6	756	A
80	6	765	G
80	6	766	U
80	6	767	U
80	6	774	A
80	6	775	G
80	6	780	A
80	6	781	U
80	6	782	U
80	6	783	G
80	6	784	C
80	6	787	G
80	6	789	A
80	6	792	U
80	6	793	A
80	6	794	U

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Mol	Chain	Res	Type
80	6	795	U
80	6	806	A
80	6	811	A
80	6	812	A
80	6	814	A
80	6	815	G
80	6	816	G
80	6	821	U
80	6	823	G
80	6	825	U
80	6	826	U
80	6	828	U
80	6	829	A
80	6	830	U
80	6	831	U
80	6	832	U
80	6	834	G
80	6	835	U
80	6	850	A
80	6	860	U
80	6	862	A
80	6	863	A
80	6	864	U
80	6	876	G
80	6	886	U
80	6	898	A
80	6	906	A
80	6	911	U
80	6	913	G
80	6	914	G
80	6	933	A
80	6	935	U
80	6	942	G
80	6	944	A
80	6	945	U
80	6	959	U
80	6	960	U
80	6	966	A
80	6	968	U
80	6	969	C
80	6	970	A
80	6	971	A

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Mol	Chain	Res	Type
80	6	991	G
80	6	992	A
80	6	993	A
80	6	995	A
80	6	996	U
80	6	1003	A
80	6	1004	U
80	6	1005	A
80	6	1021	C
80	6	1026	A
80	6	1028	C
80	6	1029	U
80	6	1039	A
80	6	1040	G
80	6	1042	G
80	6	1043	A
80	6	1052	U
80	6	1053	G
80	6	1054	U
80	6	1057	U
80	6	1058	U
80	6	1059	U
80	6	1060	U
80	6	1061	A
80	6	1063	U
80	6	1074	G
80	6	1081	A
80	6	1082	C
80	6	1091	A
80	6	1092	A
80	6	1096	C
80	6	1097	U
80	6	1098	U
80	6	1100	G
80	6	1101	G
80	6	1104	U
80	6	1109	G
80	6	1137	A
80	6	1138	A
80	6	1139	A
80	6	1151	A
80	6	1153	G

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Mol	Chain	Res	Type
80	6	1155	G
80	6	1158	C
80	6	1159	C
80	6	1160	A
80	6	1162	C
80	6	1167	G
80	6	1185	U
80	6	1194	A
80	6	1196	A
80	6	1197	C
80	6	1199	G
80	6	1200	G
80	6	1202	A
80	6	1207	C
80	6	1208	A
80	6	1217	A
80	6	1218	G
80	6	1221	A
80	6	1225	U
80	6	1226	A
80	6	1228	G
80	6	1229	G
80	6	1230	A
80	6	1231	U
80	6	1239	U
80	6	1240	U
80	6	1241	G
80	6	1242	A
80	6	1243	G
80	6	1244	A
80	6	1245	G
80	6	1246	C
80	6	1255	G
80	6	1256	A
80	6	1257	U
80	6	1258	U
80	6	1275	A
80	6	1284	C
80	6	1286	U
80	6	1288	G
80	6	1293	U
80	6	1305	U

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Mol	Chain	Res	Type
80	6	1314	U
80	6	1316	G
80	6	1321	A
80	6	1335	U
80	6	1338	C
80	6	1344	A
80	6	1345	A
80	6	1346	A
80	6	1348	A
80	6	1354	G
80	6	1361	U
80	6	1363	U
80	6	1364	G
80	6	1371	A
80	6	1372	U
80	6	1383	G
80	6	1388	A
80	6	1390	U
80	6	1398	U
80	6	1399	C
80	6	1400	A
80	6	1402	G
80	6	1413	U
80	6	1414	U
80	6	1415	U
80	6	1427	A
80	6	1428	G
80	6	1433	G
80	6	1445	G
80	6	1446	A
80	6	1448	G
80	6	1456	C
80	6	1458	G
80	6	1459	C
80	6	1461	C
80	6	1469	A
80	6	1471	A
80	6	1481	C
80	6	1482	C
80	6	1486	G
80	6	1489	U
80	6	1490	C

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Mol	Chain	Res	Type
80	6	1491	U
80	6	1492	A
80	6	1493	A
80	6	1494	C
80	6	1506	G
80	6	1514	U
80	6	1515	A
80	6	1516	A
80	6	1521	G
80	6	1523	G
80	6	1524	A
80	6	1531	G
80	6	1535	U
80	6	1536	G
80	6	1537	C
80	6	1538	U
80	6	1540	G
80	6	1554	U
80	6	1557	U
80	6	1559	A
80	6	1568	C
80	6	1569	A
80	6	1572	G
80	6	1573	A
80	6	1574	G
80	6	1575	G
80	6	1584	G
80	6	1590	G
80	6	1596	C
80	6	1600	A
80	6	1601	G
80	6	1616	G
80	6	1618	C
80	6	1621	U
80	6	1634	C
80	6	1637	C
80	6	1638	G
80	6	1656	U
80	6	1657	U
80	6	1658	G
80	6	1696	G
80	6	1697	G

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Mol	Chain	Res	Type
80	6	1698	G
80	6	1699	G
80	6	1700	C
80	6	1701	A
80	6	1702	A
80	6	1710	U
80	6	1712	A
80	6	1715	G
80	6	1716	C
80	6	1717	G
80	6	1727	G
80	6	1731	A
80	6	1736	G
80	6	1755	A
80	6	1760	G
80	6	1762	A
80	6	1766	A
80	6	1767	G
80	6	1769	U
80	6	1770	U
80	6	1780	G
80	6	1782	A
80	6	1783	C
80	6	1792	G
80	6	1793	G
80	6	1794	A
80	6	1796	C
80	6	1799	U
80	6	1800	A
36	5	15	C
36	5	24	G
36	5	26	A
36	5	40	A
36	5	49	A
36	5	57	A
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	68	C
36	5	76	G
36	5	77	A

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Mol	Chain	Res	Type
36	5	83	U
36	5	85	A
36	5	93	C
36	5	94	G
36	5	96	G
36	5	97	U
36	5	99	A
36	5	101	G
36	5	109	A
36	5	110	G
36	5	111	C
36	5	116	A
36	5	120	G
36	5	121	A
36	5	122	A
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	158	G
36	5	165	A
36	5	166	C
36	5	168	U
36	5	170	G
36	5	171	G
36	5	173	G
36	5	174	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	201	A
36	5	206	G
36	5	210	U
36	5	211	A

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Mol	Chain	Res	Type
36	5	218	G
36	5	219	A
36	5	221	A
36	5	235	A
36	5	239	G
36	5	240	U
36	5	242	C
36	5	244	G
36	5	246	U
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	259	C
36	5	269	G
36	5	283	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	297	G
36	5	315	C
36	5	316	U
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	352	A
36	5	353	G
36	5	360	G
36	5	366	A
36	5	370	U
36	5	374	A
36	5	375	A
36	5	376	G
36	5	397	A
36	5	398	A
36	5	399	A

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Mol	Chain	Res	Type
36	5	401	U
36	5	402	A
36	5	403	C
36	5	421	G
36	5	422	A
36	5	436	A
36	5	437	G
36	5	438	A
36	5	439	C
36	5	440	A
36	5	441	U
36	5	442	G
36	5	443	G
36	5	492	U
36	5	495	G
36	5	503	C
36	5	510	G
36	5	516	A
36	5	520	U
36	5	521	A
36	5	522	A
36	5	523	A
36	5	535	G
36	5	542	G
36	5	546	C
36	5	547	G
36	5	548	G
36	5	551	A
36	5	555	U
36	5	557	A
36	5	559	A
36	5	569	A
36	5	578	A
36	5	579	G
36	5	581	U
36	5	583	G
36	5	585	A
36	5	587	U
36	5	589	A
36	5	590	G
36	5	592	A
36	5	594	U

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Mol	Chain	Res	Type
36	5	595	G
36	5	600	G
36	5	604	G
36	5	607	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	636	C
36	5	649	A
36	5	651	G
36	5	653	A
36	5	654	C
36	5	660	A
36	5	662	U
36	5	677	A
36	5	681	U
36	5	683	U
36	5	691	A
36	5	698	U
36	5	699	A
36	5	705	A
36	5	708	G
36	5	709	A
36	5	712	G
36	5	715	A
36	5	716	A
36	5	719	U
36	5	720	A
36	5	726	G
36	5	736	A
36	5	743	C
36	5	751	A
36	5	758	C
36	5	766	U
36	5	767	U
36	5	774	G
36	5	776	U
36	5	777	U
36	5	780	A

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Mol	Chain	Res	Type
36	5	781	G
36	5	785	G
36	5	786	A
36	5	802	C
36	5	806	A
36	5	807	A
36	5	816	A
36	5	817	A
36	5	830	A
36	5	847	A
36	5	861	C
36	5	869	G
36	5	874	U
36	5	875	G
36	5	879	U
36	5	896	A
36	5	897	U
36	5	907	G
36	5	908	G
36	5	914	A
36	5	916	G
36	5	917	A
36	5	919	U
36	5	921	A
36	5	923	C
36	5	924	G
36	5	936	A
36	5	937	G
36	5	938	C
36	5	944	C
36	5	959	C
36	5	960	U
36	5	965	A
36	5	974	G
36	5	979	U
36	5	981	U
36	5	990	U
36	5	993	G
36	5	994	G
36	5	997	A
36	5	1001	G
36	5	1002	A

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Mol	Chain	Res	Type
36	5	1010	G
36	5	1014	U
36	5	1015	U
36	5	1016	C
36	5	1017	C
36	5	1018	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	1034	U
36	5	1035	G
36	5	1047	A
36	5	1049	C
36	5	1056	U
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G
36	5	1081	U
36	5	1082	U
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	1099	A
36	5	1103	A
36	5	1104	G
36	5	1117	G
36	5	1131	G
36	5	1153	A
36	5	1159	A
36	5	1160	C
36	5	1161	G
36	5	1173	U

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Mol	Chain	Res	Type
36	5	1178	G
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	1201	C
36	5	1202	A
36	5	1209	G
36	5	1222	G
36	5	1232	C
36	5	1233	G
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	1251	A
36	5	1252	A
36	5	1254	C
36	5	1259	A
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1265	U
36	5	1266	G
36	5	1281	G
36	5	1285	G
36	5	1294	A
36	5	1297	C
36	5	1301	A
36	5	1305	U
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1311	G
36	5	1313	G
36	5	1324	U
36	5	1329	U

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Mol	Chain	Res	Type
36	5	1330	A
36	5	1331	U
36	5	1332	A
36	5	1348	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1354	G
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1368	U
36	5	1379	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	1434	G
36	5	1437	C
36	5	1446	A
36	5	1450	G
36	5	1460	A
36	5	1465	A
36	5	1476	G
36	5	1481	A
36	5	1482	A
36	5	1484	U
36	5	1490	A
36	5	1502	C
36	5	1503	A
36	5	1508	C
36	5	1514	G
36	5	1526	U
36	5	1527	C
36	5	1536	G
36	5	1541	G
36	5	1547	G

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Mol	Chain	Res	Type
36	5	1549	U
36	5	1554	U
36	5	1556	C
36	5	1557	A
36	5	1559	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1565	G
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	1580	A
36	5	1581	C
36	5	1582	C
36	5	1583	A
36	5	1584	U
36	5	1589	A
36	5	1593	A
36	5	1605	A
36	5	1607	U
36	5	1608	C
36	5	1620	U
36	5	1629	U
36	5	1632	A
36	5	1635	G
36	5	1639	C
36	5	1643	A
36	5	1644	C
36	5	1645	U
36	5	1655	G
36	5	1677	G
36	5	1683	A

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Mol	Chain	Res	Type
36	5	1713	G
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1725	C
36	5	1736	G
36	5	1750	A
36	5	1751	G
36	5	1756	C
36	5	1759	C
36	5	1760	A
36	5	1762	C
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1770	G
36	5	1778	G
36	5	1780	G
36	5	1781	C
36	5	1793	C
36	5	1796	G
36	5	1797	A
36	5	1812	G
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	1820	U
36	5	1821	U
36	5	1841	A
36	5	1842	A
36	5	1846	C
36	5	1848	G
36	5	1849	C
36	5	1866	C
36	5	1871	U
36	5	1873	U
36	5	1876	U
36	5	1878	G
36	5	1879	A

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Mol	Chain	Res	Type
36	5	1880	U
36	5	1884	A
36	5	1886	A
36	5	1895	A
36	5	1901	A
36	5	1906	G
36	5	1912	U
36	5	1920	U
36	5	1932	A
36	5	1952	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	2118	C
36	5	2121	G
36	5	2122	G
36	5	2131	A
36	5	2144	A
36	5	2154	U
36	5	2158	A
36	5	2161	G
36	5	2169	G
36	5	2177	G
36	5	2185	G
36	5	2187	G
36	5	2188	A
36	5	2192	C
36	5	2198	A
36	5	2201	G
36	5	2205	U
36	5	2207	A
36	5	2210	G
36	5	2222	A
36	5	2228	A
36	5	2234	G
36	5	2244	A
36	5	2246	G
36	5	2247	G
36	5	2250	G

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Mol	Chain	Res	Type
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2258	U
36	5	2261	G
36	5	2273	G
36	5	2276	G
36	5	2279	A
36	5	2281	A
36	5	2283	G
36	5	2288	G
36	5	2306	C
36	5	2307	G
36	5	2308	C
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2319	U
36	5	2334	U
36	5	2336	U
36	5	2347	U
36	5	2354	C
36	5	2361	A
36	5	2363	A
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2385	G
36	5	2393	G
36	5	2394	G
36	5	2397	A
36	5	2398	A
36	5	2400	G
36	5	2401	A
36	5	2402	A
36	5	2403	G
36	5	2404	A
36	5	2405	C
36	5	2411	U
36	5	2418	G

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Mol	Chain	Res	Type
36	5	2419	A
36	5	2425	G
36	5	2437	G
36	5	2438	A
36	5	2439	A
36	5	2440	G
36	5	2441	A
36	5	2443	A
36	5	2504	U
36	5	2505	U
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2512	C
36	5	2513	U
36	5	2514	U
36	5	2515	A
36	5	2520	A
36	5	2522	G
36	5	2523	A
36	5	2524	A
36	5	2526	C
36	5	2530	G
36	5	2531	C
36	5	2532	U
36	5	2534	G
36	5	2536	A
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2543	U
36	5	2544	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2559	U
36	5	2562	A
36	5	2566	C
36	5	2567	C
36	5	2568	C
36	5	2569	A

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Mol	Chain	Res	Type
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2580	A
36	5	2584	G
36	5	2585	G
36	5	2586	G
36	5	2589	G
36	5	2593	A
36	5	2594	C
36	5	2600	C
36	5	2606	G
36	5	2607	G
36	5	2614	G
36	5	2630	C
36	5	2637	A
36	5	2639	G
36	5	2642	A
36	5	2647	A
36	5	2652	U
36	5	2656	A
36	5	2657	A
36	5	2658	G
36	5	2667	A
36	5	2674	A
36	5	2677	G
36	5	2678	A
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	2714	G
36	5	2728	G
36	5	2729	U
36	5	2750	U
36	5	2752	U
36	5	2753	G

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Mol	Chain	Res	Type
36	5	2755	C
36	5	2762	A
36	5	2771	U
36	5	2772	C
36	5	2773	C
36	5	2777	G
36	5	2778	G
36	5	2779	A
36	5	2782	U
36	5	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2802	A
36	5	2810	C
36	5	2817	A
36	5	2818	U
36	5	2821	C
36	5	2838	A
36	5	2839	G
36	5	2840	C
36	5	2843	U
36	5	2844	C
36	5	2845	A
36	5	2847	A
36	5	2849	C
36	5	2851	A
36	5	2853	A
36	5	2867	C
36	5	2870	C
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2875	U
36	5	2876	C
36	5	2880	U
36	5	2886	U
36	5	2887	A
36	5	2889	C
36	5	2895	G
36	5	2896	A
36	5	2897	A

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Mol	Chain	Res	Type
36	5	2898	G
36	5	2899	C
36	5	2900	A
36	5	2921	U
36	5	2923	U
36	5	2924	U
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2945	G
36	5	2946	A
36	5	2947	G
36	5	2953	U
36	5	2954	U
36	5	2957	G
36	5	2970	C
36	5	2971	A
36	5	2972	G
36	5	2979	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	3028	G
36	5	3030	G
36	5	3056	U
36	5	3057	U
36	5	3059	G
36	5	3078	U
36	5	3079	U
36	5	3086	A
36	5	3087	A
36	5	3092	C
36	5	3101	G
36	5	3102	G
36	5	3119	U
36	5	3123	A
36	5	3130	A
36	5	3131	U

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Mol	Chain	Res	Type
36	5	3142	A
36	5	3143	C
36	5	3144	G
36	5	3145	C
36	5	3150	A
36	5	3153	U
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	3166	C
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	3182	G
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3197	G
36	5	3199	G
36	5	3206	C
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3220	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	3245	A
36	5	3246	G

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Mol	Chain	Res	Type
36	5	3247	G
36	5	3253	G
36	5	3259	U
36	5	3263	G
36	5	3265	C
36	5	3269	U
36	5	3270	U
36	5	3271	G
36	5	3272	C
36	5	3273	A
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3278	C
36	5	3279	A
36	5	3280	U
36	5	3281	U
36	5	3282	U
36	5	3284	G
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	3300	U
36	5	3304	U
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3319	U
36	5	3325	G
36	5	3335	A
36	5	3336	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

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Mol	Chain	Res	Type
36	5	3355	U
36	5	3356	G
36	5	3358	U
36	5	3363	U
36	5	3368	U
36	5	3369	G
36	5	3378	C
36	5	3389	U
36	5	3390	G
36	5	3393	U
36	5	3396	U
37	7	7	G
37	7	14	U
37	7	22	A
37	7	27	A
37	7	33	U
37	7	38	U
37	7	51	A
37	7	52	G
37	7	54	U
37	7	55	A
37	7	60	G
37	7	65	G
37	7	72	A
37	7	73	C
37	7	74	C
37	7	76	A
37	7	88	G
37	7	92	A
37	7	93	C
37	7	101	G
37	7	102	A
37	7	107	C
37	7	112	G
38	8	3	A
38	8	21	C
38	8	25	G
38	8	34	U
38	8	35	C
38	8	48	A
38	8	49	G
38	8	51	G

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Mol	Chain	Res	Type
38	8	52	A
38	8	59	A
38	8	60	U
38	8	62	C
38	8	63	G
38	8	75	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	85	G
38	8	86	U
38	8	87	G
38	8	90	U
38	8	95	G
38	8	102	U
38	8	104	A
38	8	105	A
38	8	106	C
38	8	107	G
38	8	111	A
38	8	113	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U

All (327) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	45	U
1	2	68	A
1	2	73	U
1	2	74	U
1	2	103	A

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Mol	Chain	Res	Type
1	2	114	C
1	2	130	C
1	2	131	C
1	2	132	U
1	2	133	U
1	2	136	C
1	2	139	C
1	2	158	U
1	2	187	G
1	2	218	A
1	2	232	U
1	2	240	U
1	2	278	U
1	2	280	U
1	2	321	C
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
1	2	558	U
1	2	582	U
1	2	609	U
1	2	622	A
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	781	U
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

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Mol	Chain	Res	Type
1	2	1108	G
1	2	1157	A
1	2	1196	A
1	2	1207	C
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	1490	C
1	2	1517	U
1	2	1568	C
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1761	U
1	2	1809	G
1	2	1811	G
1	2	1824	C
36	1	13	A
36	1	44	U
36	1	65	A
36	1	67	A
36	1	169	U
36	1	239	G
36	1	269	G
36	1	282	G
36	1	285	A
36	1	369	A
36	1	397	A
36	1	518	G
36	1	547	G
36	1	594	U
36	1	637	C
36	1	715	A
36	1	763	G
36	1	764	U
36	1	873	C
36	1	908	G

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Mol	Chain	Res	Type
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	1181	U
36	1	1196	C
36	1	1273	A
36	1	1307	G
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1467	A
36	1	1484	U
36	1	1507	G
36	1	1554	U
36	1	1562	C
36	1	1607	U
36	1	1716	U
36	1	1815	U
36	1	1816	A
36	1	1820	U
36	1	1879	A
36	1	2101	C
36	1	2112	U
36	1	2209	U
36	1	2227	C
36	1	2249	G
36	1	2281	A
36	1	2372	A
36	1	2418	G
36	1	2513	U
36	1	2525	G
36	1	2537	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	2677	G

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Mol	Chain	Res	Type
36	1	2689	A
36	1	2728	G
36	1	2801	A
36	1	2817	A
36	1	2818	U
36	1	2871	G
36	1	3078	U
36	1	3121	U
36	1	3156	U
36	1	3157	U
36	1	3169	U
36	1	3195	U
36	1	3207	U
36	1	3218	A
36	1	3228	C
36	1	3242	G
36	1	3269	U
36	1	3276	G
36	1	3316	A
36	1	3317	U
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	13	A
37	3	49	G
37	3	52	G
38	4	82	U
38	4	85	G
38	4	111	A
38	4	126	A
80	6	25	C
80	6	66	U
80	6	75	U
80	6	76	A
80	6	103	A
80	6	114	C
80	6	126	A
80	6	136	C
80	6	139	C
80	6	158	U

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Mol	Chain	Res	Type
80	6	187	G
80	6	192	U
80	6	217	A
80	6	240	U
80	6	272	U
80	6	277	U
80	6	400	A
80	6	417	A
80	6	512	A
80	6	541	A
80	6	542	A
80	6	543	C
80	6	555	A
80	6	557	G
80	6	558	U
80	6	609	U
80	6	651	G
80	6	667	U
80	6	695	U
80	6	697	C
80	6	717	C
80	6	755	A
80	6	793	A
80	6	794	U
80	6	811	A
80	6	815	G
80	6	829	A
80	6	834	G
80	6	970	A
80	6	1004	U
80	6	1051	G
80	6	1058	U
80	6	1081	A
80	6	1097	U
80	6	1137	A
80	6	1196	A
80	6	1227	A
80	6	1238	A
80	6	1244	A
80	6	1255	G
80	6	1344	A
80	6	1481	C

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Mol	Chain	Res	Type
80	6	1490	C
80	6	1491	U
80	6	1535	U
80	6	1568	C
80	6	1572	G
80	6	1573	A
80	6	1600	A
80	6	1615	C
80	6	1620	C
80	6	1657	U
80	6	1696	G
80	6	1698	G
80	6	1700	C
80	6	1755	A
80	6	1766	A
36	5	65	A
36	5	93	C
36	5	151	A
36	5	169	U
36	5	183	G
36	5	238	A
36	5	282	G
36	5	374	A
36	5	397	A
36	5	438	A
36	5	546	C
36	5	588	G
36	5	715	A
36	5	765	C
36	5	786	A
36	5	873	C
36	5	896	A
36	5	916	G
36	5	993	G
36	5	1027	A
36	5	1033	U
36	5	1064	A
36	5	1081	U
36	5	1149	G
36	5	1154	A
36	5	1160	C
36	5	1181	U

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Mol	Chain	Res	Type
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	1560	G
36	5	1574	C
36	5	1607	U
36	5	1716	U
36	5	1724	U
36	5	1816	A
36	5	1819	U
36	5	1879	A
36	5	2101	C
36	5	2112	U
36	5	2144	A
36	5	2204	C
36	5	2209	U
36	5	2249	G
36	5	2255	A
36	5	2257	C
36	5	2261	G
36	5	2306	C
36	5	2360	C
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2401	A
36	5	2418	G
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2531	C
36	5	2585	G
36	5	2593	A
36	5	2682	C
36	5	2728	G
36	5	2772	C

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Mol	Chain	Res	Type
36	5	2801	A
36	5	2818	U
36	5	2872	A
36	5	2887	A
36	5	2896	A
36	5	2953	U
36	5	2970	C
36	5	2971	A
36	5	3078	U
36	5	3154	C
36	5	3167	A
36	5	3195	U
36	5	3218	A
36	5	3228	C
36	5	3269	U
36	5	3271	G
36	5	3275	U
36	5	3289	G
36	5	3303	G
36	5	3317	U
36	5	3340	G
36	5	3341	U
36	5	3357	U
37	7	49	G
38	8	111	A
38	8	126	A
38	8	156	U

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
86	8AN	B	3403	36,86	19,24,25	8.24	3 (15%)	13,35,38	1.64	3 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	8AN	A	3403	36,86	19,24,25	1.05	1 (5%)	13,35,38	1.70	4 (30%)

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
86	8AN	B	3403	36,86	-	0/3/25/26	0/3/3/3
86	8AN	A	3403	36,86	-	0/3/25/26	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	B	3403	8AN	C3'-N3'	-35.17	0.93	1.47
86	B	3403	8AN	O2'-C2'	5.86	1.56	1.43
86	A	3403	8AN	C5-C4	2.50	1.47	1.40
86	B	3403	8AN	C5-C4	-2.25	1.35	1.40

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	B	3403	8AN	N3-C2-N1	-3.18	123.70	128.68
86	A	3403	8AN	N3-C2-N1	-3.17	123.72	128.68
86	A	3403	8AN	C4-C5-N7	-2.71	106.58	109.40
86	A	3403	8AN	C2'-C3'-C4'	2.61	106.32	102.68
86	B	3403	8AN	C2'-C3'-C4'	2.57	106.27	102.68
86	B	3403	8AN	O4'-C4'-C3'	2.57	107.84	104.15
86	A	3403	8AN	O4'-C4'-C3'	2.54	107.79	104.15

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 21 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	B	3403	8AN	9	0
86	A	3403	8AN	12	0

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 3555 ligands modelled in this entry, 2208 are monoatomic - leaving 1347 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	$\# Z > 2$
87	OHX	5	3668	-	0,6,6	-	-	-		
87	OHX	5	3616	87	0,6,6	-	-	-		
87	OHX	2	2073	87	0,6,6	-	-	-		
87	OHX	5	3577	36	0,6,6	-	-	-		
87	OHX	5	3478	87	0,6,6	-	-	-		
87	OHX	1	3437	87	0,6,6	-	-	-		
87	OHX	M7	201	88	0,6,6	-	-	-		
87	OHX	5	3665	88	0,6,6	-	-	-		
87	OHX	5	3698	36	0,6,6	-	-	-		
87	OHX	5	3475	-	0,6,6	-	-	-		
87	OHX	1	3446	88,87	0,6,6	-	-	-		
87	OHX	2	1934	-	0,6,6	-	-	-		
87	OHX	1	3676	-	0,6,6	-	-	-		
87	OHX	1	3513	87	0,6,6	-	-	-		
87	OHX	6	2013	88	0,6,6	-	-	-		
87	OHX	5	3598	87	0,6,6	-	-	-		
87	OHX	2	1970	87	0,6,6	-	-	-		
87	OHX	1	3413	-	0,6,6	-	-	-		
87	OHX	6	2038	-	0,6,6	-	-	-		
87	OHX	2	2086	88	0,6,6	-	-	-		
87	OHX	5	3563	88	0,6,6	-	-	-		
87	OHX	1	3548	-	0,6,6	-	-	-		
87	OHX	2	2083	-	0,6,6	-	-	-		
87	OHX	1	3573	-	0,6,6	-	-	-		
87	OHX	5	3691	-	0,6,6	-	-	-		
87	OHX	6	2014	-	0,6,6	-	-	-		
87	OHX	1	3731	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	3	205	87	0,6,6	-	-	-		
87	OHX	2	1992	-	0,6,6	-	-	-		
87	OHX	5	3609	-	0,6,6	-	-	-		
87	OHX	5	3632	87	0,6,6	-	-	-		
87	OHX	5	3697	36	0,6,6	-	-	-		
87	OHX	6	1948	87,80	0,6,6	-	-	-		
87	OHX	n9	101	-	0,6,6	-	-	-		
87	OHX	1	3715	-	0,6,6	-	-	-		
87	OHX	5	3795	-	0,6,6	-	-	-		
87	OHX	1	3614	88	0,6,6	-	-	-		
87	OHX	2	2082	87,1	0,6,6	-	-	-		
87	OHX	1	3650	88	0,6,6	-	-	-		
87	OHX	5	3480	-	0,6,6	-	-	-		
87	OHX	5	3775	87	0,6,6	-	-	-		
87	OHX	5	3419	36,88	0,6,6	-	-	-		
87	OHX	1	3566	88	0,6,6	-	-	-		
87	OHX	5	3564	88	0,6,6	-	-	-		
87	OHX	6	2012	80	0,6,6	-	-	-		
87	OHX	2	2006	-	0,6,6	-	-	-		
87	OHX	5	3774	-	0,6,6	-	-	-		
87	OHX	3	210	88	0,6,6	-	-	-		
87	OHX	5	3549	-	0,6,6	-	-	-		
87	OHX	5	3417	36,88	0,6,6	-	-	-		
87	OHX	6	1983	80	0,6,6	-	-	-		
87	OHX	5	3628	87	0,6,6	-	-	-		
87	OHX	2	1971	-	0,6,6	-	-	-		
87	OHX	5	3685	36,88	0,6,6	-	-	-		
87	OHX	5	3496	-	0,6,6	-	-	-		
87	OHX	5	3544	-	0,6,6	-	-	-		
87	OHX	6	2070	87,80	0,6,6	-	-	-		
87	OHX	2	2037	88	0,6,6	-	-	-		
87	OHX	6	1979	88,80	0,6,6	-	-	-		
87	OHX	1	3801	87	0,6,6	-	-	-		
87	OHX	5	3785	-	0,6,6	-	-	-		
87	OHX	5	3792	36,87,88	0,6,6	-	-	-		
87	OHX	4	216	88,87	0,6,6	-	-	-		
87	OHX	5	3640	36,88	0,6,6	-	-	-		
87	OHX	1	3584	87	0,6,6	-	-	-		
87	OHX	1	3580	36	0,6,6	-	-	-		
87	OHX	5	3688	88	0,6,6	-	-	-		
87	OHX	5	3434	36,88	0,6,6	-	-	-		
87	OHX	5	3657	36,87,88	0,6,6	-	-	-		
87	OHX	5	3608	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	M9	202	87	0,6,6	-	-	-		
87	OHX	q1	101	87	0,6,6	-	-	-		
87	OHX	7	206	-	0,6,6	-	-	-		
87	OHX	5	3600	88	0,6,6	-	-	-		
87	OHX	2	2009	88	0,6,6	-	-	-		
87	OHX	2	2003	1	0,6,6	-	-	-		
87	OHX	5	3601	36	0,6,6	-	-	-		
87	OHX	6	1909	88,87,80	0,6,6	-	-	-		
87	OHX	1	3414	-	0,6,6	-	-	-		
87	OHX	1	3447	-	0,6,6	-	-	-		
87	OHX	1	3563	88	0,6,6	-	-	-		
87	OHX	1	3674	87	0,6,6	-	-	-		
87	OHX	6	1904	80	0,6,6	-	-	-		
87	OHX	1	3457	88,87	0,6,6	-	-	-		
87	OHX	6	2007	88,80	0,6,6	-	-	-		
87	OHX	1	3657	87	0,6,6	-	-	-		
87	OHX	1	3713	87	0,6,6	-	-	-		
87	OHX	M0	301	87	0,6,6	-	-	-		
87	OHX	5	3593	-	0,6,6	-	-	-		
87	OHX	5	3716	36,88	0,6,6	-	-	-		
87	OHX	5	3590	36,88	0,6,6	-	-	-		
87	OHX	1	3680	-	0,6,6	-	-	-		
87	OHX	6	1912	-	0,6,6	-	-	-		
87	OHX	5	3791	88	0,6,6	-	-	-		
87	OHX	1	3796	88,87	0,6,6	-	-	-		
87	OHX	1	3612	88,87	0,6,6	-	-	-		
87	OHX	8	203	87	0,6,6	-	-	-		
87	OHX	2	1984	87	0,6,6	-	-	-		
87	OHX	6	2056	88,80	0,6,6	-	-	-		
87	OHX	2	1981	-	0,6,6	-	-	-		
87	OHX	4	202	-	0,6,6	-	-	-		
87	OHX	5	3420	36	0,6,6	-	-	-		
87	OHX	1	3807	87	0,6,6	-	-	-		
87	OHX	5	3703	-	0,6,6	-	-	-		
87	OHX	6	2076	80	0,6,6	-	-	-		
87	OHX	1	3418	36,87	0,6,6	-	-	-		
87	OHX	1	3652	88,87	0,6,6	-	-	-		
87	OHX	m4	201	-	0,6,6	-	-	-		
87	OHX	2	1998	87	0,6,6	-	-	-		
87	OHX	6	1902	-	0,6,6	-	-	-		
87	OHX	6	1989	88,80	0,6,6	-	-	-		
87	OHX	5	3660	87	0,6,6	-	-	-		
87	OHX	5	3764	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3714	-	0,6,6	-	-	-		
87	OHX	7	211	88	0,6,6	-	-	-		
87	OHX	1	3656	-	0,6,6	-	-	-		
87	OHX	2	1983	-	0,6,6	-	-	-		
87	OHX	5	3734	-	0,6,6	-	-	-		
87	OHX	5	3747	88	0,6,6	-	-	-		
87	OHX	5	3789	-	0,6,6	-	-	-		
87	OHX	6	1915	-	0,6,6	-	-	-		
87	OHX	5	3499	36	0,6,6	-	-	-		
87	OHX	2	2010	-	0,6,6	-	-	-		
87	OHX	6	2004	-	0,6,6	-	-	-		
87	OHX	5	3772	-	0,6,6	-	-	-		
87	OHX	1	3634	88	0,6,6	-	-	-		
87	OHX	2	2079	-	0,6,6	-	-	-		
87	OHX	6	2084	88,87	0,6,6	-	-	-		
87	OHX	5	3493	-	0,6,6	-	-	-		
87	OHX	6	1903	-	0,6,6	-	-	-		
87	OHX	1	3561	-	0,6,6	-	-	-		
87	OHX	7	203	88,87	0,6,6	-	-	-		
87	OHX	2	2036	-	0,6,6	-	-	-		
87	OHX	5	3783	-	0,6,6	-	-	-		
87	OHX	1	3808	87	0,6,6	-	-	-		
87	OHX	1	3627	88	0,6,6	-	-	-		
87	OHX	1	3411	-	0,6,6	-	-	-		
87	OHX	6	1939	87	0,6,6	-	-	-		
87	OHX	1	3640	88	0,6,6	-	-	-		
87	OHX	2	1959	-	0,6,6	-	-	-		
87	OHX	1	3468	36,88	0,6,6	-	-	-		
87	OHX	5	3757	87	0,6,6	-	-	-		
87	OHX	1	3688	-	0,6,6	-	-	-		
87	OHX	5	3547	36	0,6,6	-	-	-		
87	OHX	1	3617	-	0,6,6	-	-	-		
87	OHX	sR	401	-	0,6,6	-	-	-		
87	OHX	6	1932	88	0,6,6	-	-	-		
87	OHX	5	3741	88	0,6,6	-	-	-		
87	OHX	5	3441	88	0,6,6	-	-	-		
87	OHX	5	3430	88,87	0,6,6	-	-	-		
87	OHX	6	2035	-	0,6,6	-	-	-		
87	OHX	S8	301	-	0,6,6	-	-	-		
87	OHX	4	208	38	0,6,6	-	-	-		
87	OHX	6	1976	80	0,6,6	-	-	-		
87	OHX	1	3790	87	0,6,6	-	-	-		
87	OHX	5	3571	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3458	36	0,6,6	-	-	-		
87	OHX	5	3562	-	0,6,6	-	-	-		
87	OHX	1	3460	87	0,6,6	-	-	-		
87	OHX	5	3554	36,88	0,6,6	-	-	-		
87	OHX	1	3763	87	0,6,6	-	-	-		
87	OHX	5	3498	36,87	0,6,6	-	-	-		
87	OHX	5	3708	-	0,6,6	-	-	-		
87	OHX	1	3443	88	0,6,6	-	-	-		
87	OHX	1	3736	88	0,6,6	-	-	-		
87	OHX	1	3408	88	0,6,6	-	-	-		
87	OHX	1	3557	-	0,6,6	-	-	-		
87	OHX	1	3743	36,88	0,6,6	-	-	-		
87	OHX	1	3479	-	0,6,6	-	-	-		
87	OHX	5	3812	87	0,6,6	-	-	-		
87	OHX	1	3534	36,88	0,6,6	-	-	-		
87	OHX	5	3710	-	0,6,6	-	-	-		
87	OHX	5	3798	88,87	0,6,6	-	-	-		
87	OHX	4	207	88	0,6,6	-	-	-		
87	OHX	6	2085	80	0,6,6	-	-	-		
87	OHX	2	1912	-	0,6,6	-	-	-		
87	OHX	5	3804	87	0,6,6	-	-	-		
87	OHX	5	3695	36,88	0,6,6	-	-	-		
87	OHX	1	3739	87	0,6,6	-	-	-		
87	OHX	5	3806	87	0,6,6	-	-	-		
87	OHX	2	2004	-	0,6,6	-	-	-		
87	OHX	5	3771	88	0,6,6	-	-	-		
87	OHX	5	3448	-	0,6,6	-	-	-		
87	OHX	5	3729	87	0,6,6	-	-	-		
87	OHX	1	3469	-	0,6,6	-	-	-		
87	OHX	Q2	502	88	0,6,6	-	-	-		
87	OHX	6	2008	-	0,6,6	-	-	-		
87	OHX	1	3742	87	0,6,6	-	-	-		
87	OHX	5	3679	36,87	0,6,6	-	-	-		
87	OHX	1	3629	88	0,6,6	-	-	-		
87	OHX	6	1981	-	0,6,6	-	-	-		
87	OHX	1	3587	-	0,6,6	-	-	-		
87	OHX	5	3446	88	0,6,6	-	-	-		
87	OHX	1	3744	87	0,6,6	-	-	-		
87	OHX	5	3687	87	0,6,6	-	-	-		
87	OHX	2	2013	1	0,6,6	-	-	-		
87	OHX	s1	301	88	0,6,6	-	-	-		
87	OHX	1	3525	88	0,6,6	-	-	-		
87	OHX	5	3730	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	6	1966	-	0,6,6	-	-	-		
87	OHX	7	212	88	0,6,6	-	-	-		
87	OHX	1	3725	88	0,6,6	-	-	-		
87	OHX	6	1914	87,80	0,6,6	-	-	-		
87	OHX	5	3560	87	0,6,6	-	-	-		
87	OHX	1	3448	-	0,6,6	-	-	-		
87	OHX	6	1969	-	0,6,6	-	-	-		
87	OHX	5	3606	-	0,6,6	-	-	-		
87	OHX	1	3604	-	0,6,6	-	-	-		
87	OHX	1	3681	36,87	0,6,6	-	-	-		
87	OHX	6	2050	80	0,6,6	-	-	-		
87	OHX	6	2023	-	0,6,6	-	-	-		
87	OHX	1	3667	-	0,6,6	-	-	-		
87	OHX	2	1997	88	0,6,6	-	-	-		
87	OHX	1	3492	88	0,6,6	-	-	-		
87	OHX	1	3540	-	0,6,6	-	-	-		
87	OHX	8	201	-	0,6,6	-	-	-		
87	OHX	5	3403	36	0,6,6	-	-	-		
87	OHX	5	3506	-	0,6,6	-	-	-		
87	OHX	2	1955	-	0,6,6	-	-	-		
87	OHX	1	3675	88	0,6,6	-	-	-		
87	OHX	15	302	-	0,6,6	-	-	-		
87	OHX	2	1927	88	0,6,6	-	-	-		
87	OHX	2	1951	-	0,6,6	-	-	-		
87	OHX	5	3752	36	0,6,6	-	-	-		
87	OHX	1	3517	-	0,6,6	-	-	-		
87	OHX	5	3494	-	0,6,6	-	-	-		
87	OHX	5	3762	-	0,6,6	-	-	-		
87	OHX	6	1960	-	0,6,6	-	-	-		
87	OHX	1	3558	87	0,6,6	-	-	-		
87	OHX	2	2045	-	0,6,6	-	-	-		
87	OHX	1	3708	-	0,6,6	-	-	-		
87	OHX	5	3810	87	0,6,6	-	-	-		
87	OHX	3	203	88	0,6,6	-	-	-		
87	OHX	6	1962	80	0,6,6	-	-	-		
87	OHX	5	3662	-	0,6,6	-	-	-		
87	OHX	5	3596	88	0,6,6	-	-	-		
87	OHX	5	3811	87	0,6,6	-	-	-		
87	OHX	4	204	-	0,6,6	-	-	-		
87	OHX	1	3804	87	0,6,6	-	-	-		
87	OHX	1	3576	88	0,6,6	-	-	-		
87	OHX	6	1995	-	0,6,6	-	-	-		
87	OHX	1	3452	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3550	-	0,6,6	-	-	-		
87	OHX	4	206	-	0,6,6	-	-	-		
87	OHX	5	3476	87	0,6,6	-	-	-		
87	OHX	1	3765	-	0,6,6	-	-	-		
87	OHX	6	1901	80	0,6,6	-	-	-		
87	OHX	5	3630	88,87	0,6,6	-	-	-		
87	OHX	5	3513	88,87	0,6,6	-	-	-		
87	OHX	2	2058	-	0,6,6	-	-	-		
87	OHX	6	1908	-	0,6,6	-	-	-		
87	OHX	8	205	88	0,6,6	-	-	-		
87	OHX	5	3442	88	0,6,6	-	-	-		
87	OHX	6	2021	88	0,6,6	-	-	-		
87	OHX	6	2027	88	0,6,6	-	-	-		
87	OHX	5	3548	-	0,6,6	-	-	-		
87	OHX	1	3750	-	0,6,6	-	-	-		
87	OHX	5	3573	36	0,6,6	-	-	-		
87	OHX	1	3419	-	0,6,6	-	-	-		
87	OHX	5	3790	87	0,6,6	-	-	-		
87	OHX	1	3787	87	0,6,6	-	-	-		
87	OHX	5	3539	87	0,6,6	-	-	-		
87	OHX	2	1921	88,87	0,6,6	-	-	-		
87	OHX	1	3454	-	0,6,6	-	-	-		
87	OHX	1	3782	87	0,6,6	-	-	-		
87	OHX	5	3707	-	0,6,6	-	-	-		
87	OHX	2	1960	-	0,6,6	-	-	-		
87	OHX	6	1937	-	0,6,6	-	-	-		
87	OHX	6	1957	88,80	0,6,6	-	-	-		
87	OHX	4	209	-	0,6,6	-	-	-		
87	OHX	5	3690	-	0,6,6	-	-	-		
87	OHX	6	1916	-	0,6,6	-	-	-		
87	OHX	1	3505	-	0,6,6	-	-	-		
87	OHX	2	2069	88,87	0,6,6	-	-	-		
87	OHX	1	3722	88	0,6,6	-	-	-		
87	OHX	6	2098	87	0,6,6	-	-	-		
87	OHX	4	215	87	0,6,6	-	-	-		
87	OHX	5	3794	36,88	0,6,6	-	-	-		
87	OHX	6	2028	80	0,6,6	-	-	-		
87	OHX	6	2083	87	0,6,6	-	-	-		
87	OHX	1	3422	-	0,6,6	-	-	-		
87	OHX	2	1946	-	0,6,6	-	-	-		
87	OHX	6	1974	80	0,6,6	-	-	-		
87	OHX	1	3491	87	0,6,6	-	-	-		
87	OHX	1	3432	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3490	87	0,6,6	-	-	-		
87	OHX	5	3465	-	0,6,6	-	-	-		
87	OHX	1	3471	-	0,6,6	-	-	-		
87	OHX	2	2000	-	0,6,6	-	-	-		
87	OHX	1	3506	36	0,6,6	-	-	-		
87	OHX	6	1926	-	0,6,6	-	-	-		
87	OHX	2	2081	87	0,6,6	-	-	-		
87	OHX	1	3574	88	0,6,6	-	-	-		
87	OHX	2	2072	-	0,6,6	-	-	-		
87	OHX	D9	102	87	0,6,6	-	-	-		
87	OHX	5	3637	-	0,6,6	-	-	-		
87	OHX	1	3426	-	0,6,6	-	-	-		
87	OHX	6	1927	88,80	0,6,6	-	-	-		
87	OHX	2	1902	-	0,6,6	-	-	-		
87	OHX	2	2084	87	0,6,6	-	-	-		
87	OHX	5	3758	36	0,6,6	-	-	-		
87	OHX	6	2041	80	0,6,6	-	-	-		
87	OHX	5	3658	88	0,6,6	-	-	-		
87	OHX	6	1982	87	0,6,6	-	-	-		
87	OHX	5	3555	88	0,6,6	-	-	-		
87	OHX	5	3532	87	0,6,6	-	-	-		
87	OHX	6	1955	80	0,6,6	-	-	-		
87	OHX	S2	301	87	0,6,6	-	-	-		
87	OHX	n3	202	-	0,6,6	-	-	-		
87	OHX	1	3470	-	0,6,6	-	-	-		
87	OHX	2	1961	87	0,6,6	-	-	-		
87	OHX	2	1945	87	0,6,6	-	-	-		
87	OHX	5	3514	36	0,6,6	-	-	-		
87	OHX	2	1915	87,1	0,6,6	-	-	-		
87	OHX	1	3424	-	0,6,6	-	-	-		
87	OHX	1	3759	87	0,6,6	-	-	-		
87	OHX	5	3474	87	0,6,6	-	-	-		
87	OHX	2	2038	-	0,6,6	-	-	-		
87	OHX	1	3405	36	0,6,6	-	-	-		
87	OHX	2	1903	-	0,6,6	-	-	-		
87	OHX	5	3773	-	0,6,6	-	-	-		
87	OHX	2	1924	88	0,6,6	-	-	-		
87	OHX	2	1994	-	0,6,6	-	-	-		
87	OHX	5	3802	36,87,88	0,6,6	-	-	-		
87	OHX	5	3457	-	0,6,6	-	-	-		
87	OHX	2	1989	87	0,6,6	-	-	-		
87	OHX	1	3535	87	0,6,6	-	-	-		
87	OHX	5	3530	36,88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	3	202	88	0,6,6	-	-	-		
87	OHX	8	204	-	0,6,6	-	-	-		
87	OHX	1	3734	87	0,6,6	-	-	-		
87	OHX	1	3747	36,87	0,6,6	-	-	-		
87	OHX	5	3617	-	0,6,6	-	-	-		
87	OHX	1	3493	-	0,6,6	-	-	-		
87	OHX	2	1932	-	0,6,6	-	-	-		
87	OHX	2	2015	87,1	0,6,6	-	-	-		
87	OHX	1	3638	88	0,6,6	-	-	-		
87	OHX	5	3626	-	0,6,6	-	-	-		
87	OHX	1	3665	88,87	0,6,6	-	-	-		
87	OHX	5	3680	-	0,6,6	-	-	-		
87	OHX	6	1950	88,80	0,6,6	-	-	-		
87	OHX	6	2051	-	0,6,6	-	-	-		
87	OHX	5	3509	36	0,6,6	-	-	-		
87	OHX	1	3737	87	0,6,6	-	-	-		
87	OHX	2	2075	-	0,6,6	-	-	-		
87	OHX	5	3612	-	0,6,6	-	-	-		
87	OHX	5	3581	-	0,6,6	-	-	-		
87	OHX	5	3746	36	0,6,6	-	-	-		
87	OHX	5	3753	87	0,6,6	-	-	-		
87	OHX	5	3559	-	0,6,6	-	-	-		
87	OHX	5	3572	88	0,6,6	-	-	-		
87	OHX	4	211	88	0,6,6	-	-	-		
87	OHX	1	3613	36,87	0,6,6	-	-	-		
87	OHX	6	1967	88	0,6,6	-	-	-		
87	OHX	5	3671	36	0,6,6	-	-	-		
87	OHX	6	2020	88,80	0,6,6	-	-	-		
87	OHX	n3	201	-	0,6,6	-	-	-		
87	OHX	1	3568	-	0,6,6	-	-	-		
87	OHX	5	3460	87	0,6,6	-	-	-		
87	OHX	1	3402	-	0,6,6	-	-	-		
87	OHX	5	3807	87	0,6,6	-	-	-		
87	OHX	5	3418	-	0,6,6	-	-	-		
87	OHX	1	3427	87	0,6,6	-	-	-		
87	OHX	5	3428	-	0,6,6	-	-	-		
87	OHX	4	203	-	0,6,6	-	-	-		
87	OHX	6	1910	88	0,6,6	-	-	-		
87	OHX	2	1982	-	0,6,6	-	-	-		
87	OHX	1	3485	87	0,6,6	-	-	-		
87	OHX	5	3656	36,88	0,6,6	-	-	-		
87	OHX	2	1979	87	0,6,6	-	-	-		
87	OHX	1	3445	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	2	2085	87	0,6,6	-	-	-		
87	OHX	5	3592	87	0,6,6	-	-	-		
87	OHX	5	3528	88	0,6,6	-	-	-		
87	OHX	1	3401	-	0,6,6	-	-	-		
87	OHX	1	3595	36	0,6,6	-	-	-		
87	OHX	6	2066	88	0,6,6	-	-	-		
87	OHX	5	3634	-	0,6,6	-	-	-		
87	OHX	2	2060	-	0,6,6	-	-	-		
87	OHX	1	3520	88	0,6,6	-	-	-		
87	OHX	5	3700	87	0,6,6	-	-	-		
87	OHX	5	3561	-	0,6,6	-	-	-		
87	OHX	2	1963	-	0,6,6	-	-	-		
87	OHX	5	3705	36	0,6,6	-	-	-		
87	OHX	6	2059	87	0,6,6	-	-	-		
87	OHX	1	3555	87	0,6,6	-	-	-		
87	OHX	6	1956	-	0,6,6	-	-	-		
87	OHX	5	3411	-	0,6,6	-	-	-		
87	OHX	1	3693	-	0,6,6	-	-	-		
87	OHX	2	1996	-	0,6,6	-	-	-		
87	OHX	6	1906	-	0,6,6	-	-	-		
87	OHX	5	3755	-	0,6,6	-	-	-		
87	OHX	5	3599	36,88	0,6,6	-	-	-		
87	OHX	2	1909	87	0,6,6	-	-	-		
87	OHX	5	3438	-	0,6,6	-	-	-		
87	OHX	8	216	38	0,6,6	-	-	-		
87	OHX	5	3597	-	0,6,6	-	-	-		
87	OHX	6	2046	87	0,6,6	-	-	-		
87	OHX	L3	403	-	0,6,6	-	-	-		
87	OHX	1	3423	88	0,6,6	-	-	-		
87	OHX	1	3518	88	0,6,6	-	-	-		
87	OHX	5	3405	36	0,6,6	-	-	-		
87	OHX	5	3638	36,87	0,6,6	-	-	-		
87	OHX	2	2011	88	0,6,6	-	-	-		
87	OHX	5	3692	36,88	0,6,6	-	-	-		
87	OHX	m0	302	87	0,6,6	-	-	-		
87	OHX	1	3449	-	0,6,6	-	-	-		
87	OHX	1	3669	88	0,6,6	-	-	-		
87	OHX	5	3604	36	0,6,6	-	-	-		
87	OHX	1	3721	36,88	0,6,6	-	-	-		
87	OHX	5	3535	87	0,6,6	-	-	-		
87	OHX	5	3540	88	0,6,6	-	-	-		
87	OHX	2	1986	-	0,6,6	-	-	-		
87	OHX	6	2096	87,80	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3631	-	0,6,6	-	-	-		
87	OHX	14	402	-	0,6,6	-	-	-		
87	OHX	6	2033	-	0,6,6	-	-	-		
87	OHX	M0	302	87	0,6,6	-	-	-		
87	OHX	1	3654	88	0,6,6	-	-	-		
87	OHX	6	1973	87	0,6,6	-	-	-		
87	OHX	1	3560	88	0,6,6	-	-	-		
87	OHX	1	3507	87	0,6,6	-	-	-		
87	OHX	1	3751	36	0,6,6	-	-	-		
87	OHX	2	2077	87,1	0,6,6	-	-	-		
87	OHX	5	3743	36	0,6,6	-	-	-		
87	OHX	2	2070	87	0,6,6	-	-	-		
87	OHX	5	3720	-	0,6,6	-	-	-		
87	OHX	O3	201	88	0,6,6	-	-	-		
87	OHX	1	3543	87	0,6,6	-	-	-		
87	OHX	5	3517	-	0,6,6	-	-	-		
87	OHX	1	3697	-	0,6,6	-	-	-		
87	OHX	1	3735	-	0,6,6	-	-	-		
87	OHX	1	3515	36	0,6,6	-	-	-		
87	OHX	1	3639	88	0,6,6	-	-	-		
87	OHX	5	3469	88	0,6,6	-	-	-		
87	OHX	5	3718	87	0,6,6	-	-	-		
87	OHX	1	3672	-	0,6,6	-	-	-		
87	OHX	5	3407	36	0,6,6	-	-	-		
87	OHX	2	2088	87,1	0,6,6	-	-	-		
87	OHX	6	2065	-	0,6,6	-	-	-		
87	OHX	5	3470	36	0,6,6	-	-	-		
87	OHX	5	3814	36,87	0,6,6	-	-	-		
87	OHX	6	1928	80	0,6,6	-	-	-		
87	OHX	2	1988	87	0,6,6	-	-	-		
87	OHX	5	3744	-	0,6,6	-	-	-		
87	OHX	5	3483	-	0,6,6	-	-	-		
87	OHX	1	3429	88	0,6,6	-	-	-		
87	OHX	1	3685	87	0,6,6	-	-	-		
87	OHX	7	208	88	0,6,6	-	-	-		
87	OHX	6	2042	87,80	0,6,6	-	-	-		
87	OHX	6	1952	87,80	0,6,6	-	-	-		
87	OHX	8	213	-	0,6,6	-	-	-		
87	OHX	6	1978	80	0,6,6	-	-	-		
87	OHX	1	3701	87	0,6,6	-	-	-		
87	OHX	5	3787	-	0,6,6	-	-	-		
87	OHX	1	3738	88	0,6,6	-	-	-		
87	OHX	5	3681	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3467	87	0,6,6	-	-	-		
87	OHX	1	3463	-	0,6,6	-	-	-		
87	OHX	1	3523	-	0,6,6	-	-	-		
87	OHX	1	3748	-	0,6,6	-	-	-		
87	OHX	6	2006	88	0,6,6	-	-	-		
87	OHX	6	1917	80	0,6,6	-	-	-		
87	OHX	m5	501	-	0,6,6	-	-	-		
87	OHX	1	3620	36	0,6,6	-	-	-		
87	OHX	5	3618	-	0,6,6	-	-	-		
87	OHX	o7	502	-	0,6,6	-	-	-		
87	OHX	5	3568	88,87	0,6,6	-	-	-		
87	OHX	7	209	88	0,6,6	-	-	-		
87	OHX	1	3773	87	0,6,6	-	-	-		
87	OHX	5	3588	88	0,6,6	-	-	-		
87	OHX	M9	203	-	0,6,6	-	-	-		
87	OHX	6	1990	80	0,6,6	-	-	-		
87	OHX	6	2071	87	0,6,6	-	-	-		
87	OHX	5	3675	-	0,6,6	-	-	-		
87	OHX	7	207	88	0,6,6	-	-	-		
87	OHX	5	3521	-	0,6,6	-	-	-		
87	OHX	6	1947	88	0,6,6	-	-	-		
87	OHX	1	3789	88	0,6,6	-	-	-		
87	OHX	6	1965	88,87	0,6,6	-	-	-		
87	OHX	5	3602	36,88	0,6,6	-	-	-		
87	OHX	1	3702	-	0,6,6	-	-	-		
87	OHX	1	3706	88	0,6,6	-	-	-		
87	OHX	6	2089	80	0,6,6	-	-	-		
87	OHX	1	3653	88	0,6,6	-	-	-		
87	OHX	6	1944	88,80	0,6,6	-	-	-		
87	OHX	5	3761	88,87	0,6,6	-	-	-		
87	OHX	c1	201	87	0,6,6	-	-	-		
87	OHX	2	1974	-	0,6,6	-	-	-		
87	OHX	1	3582	88	0,6,6	-	-	-		
87	OHX	m5	502	88	0,6,6	-	-	-		
90	PRO	B	3501	-	5,7,8	0.51	0	7,8,10	1.39	1 (14%)
87	OHX	m7	201	-	0,6,6	-	-	-		
87	OHX	5	3576	-	0,6,6	-	-	-		
87	OHX	5	3471	36	0,6,6	-	-	-		
87	OHX	1	3720	87	0,6,6	-	-	-		
87	OHX	2	2044	88	0,6,6	-	-	-		
87	OHX	1	3740	87	0,6,6	-	-	-		
87	OHX	5	3452	-	0,6,6	-	-	-		
87	OHX	5	3510	36,87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	6	2031	-	0,6,6	-	-	-		
87	OHX	1	3741	-	0,6,6	-	-	-		
87	OHX	8	202	38	0,6,6	-	-	-		
87	OHX	c3	201	-	0,6,6	-	-	-		
87	OHX	1	3495	88	0,6,6	-	-	-		
87	OHX	1	3497	-	0,6,6	-	-	-		
87	OHX	2	1938	-	0,6,6	-	-	-		
87	OHX	2	2008	87	0,6,6	-	-	-		
87	OHX	1	3682	-	0,6,6	-	-	-		
87	OHX	6	2091	87	0,6,6	-	-	-		
87	OHX	5	3786	88	0,6,6	-	-	-		
87	OHX	2	2001	-	0,6,6	-	-	-		
87	OHX	1	3769	88	0,6,6	-	-	-		
87	OHX	1	3610	-	0,6,6	-	-	-		
87	OHX	5	3454	88	0,6,6	-	-	-		
87	OHX	1	3770	-	0,6,6	-	-	-		
87	OHX	1	3678	88	0,6,6	-	-	-		
87	OHX	1	3666	-	0,6,6	-	-	-		
87	OHX	2	1914	1	0,6,6	-	-	-		
87	OHX	1	3553	-	0,6,6	-	-	-		
87	OHX	5	3767	87	0,6,6	-	-	-		
87	OHX	1	3756	88	0,6,6	-	-	-		
87	OHX	6	2016	80	0,6,6	-	-	-		
87	OHX	1	3502	87	0,6,6	-	-	-		
87	OHX	5	3435	-	0,6,6	-	-	-		
87	OHX	5	3793	36	0,6,6	-	-	-		
87	OHX	c5	201	-	0,6,6	-	-	-		
87	OHX	2	2023	-	0,6,6	-	-	-		
87	OHX	5	3531	-	0,6,6	-	-	-		
87	OHX	5	3463	88	0,6,6	-	-	-		
87	OHX	5	3406	36	0,6,6	-	-	-		
87	OHX	1	3536	36	0,6,6	-	-	-		
87	OHX	2	1907	87	0,6,6	-	-	-		
87	OHX	6	2040	-	0,6,6	-	-	-		
87	OHX	1	3730	87	0,6,6	-	-	-		
87	OHX	N8	201	-	0,6,6	-	-	-		
87	OHX	1	3719	87	0,6,6	-	-	-		
87	OHX	5	3432	-	0,6,6	-	-	-		
87	OHX	5	3737	88	0,6,6	-	-	-		
87	OHX	6	2053	80	0,6,6	-	-	-		
87	OHX	5	3768	36,87	0,6,6	-	-	-		
87	OHX	6	2024	80	0,6,6	-	-	-		
87	OHX	2	1999	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	6	2052	80	0,6,6	-	-	-		
87	OHX	5	3754	36,88	0,6,6	-	-	-		
87	OHX	1	3659	87	0,6,6	-	-	-		
87	OHX	5	3731	88,87	0,6,6	-	-	-		
87	OHX	C3	201	-	0,6,6	-	-	-		
87	OHX	2	2047	-	0,6,6	-	-	-		
87	OHX	6	2064	80	0,6,6	-	-	-		
87	OHX	1	3487	-	0,6,6	-	-	-		
87	OHX	5	3633	36	0,6,6	-	-	-		
87	OHX	2	1910	1	0,6,6	-	-	-		
87	OHX	5	3570	-	0,6,6	-	-	-		
87	OHX	5	3733	36	0,6,6	-	-	-		
87	OHX	1	3461	87	0,6,6	-	-	-		
87	OHX	L4	401	-	0,6,6	-	-	-		
87	OHX	6	2025	-	0,6,6	-	-	-		
87	OHX	1	3776	-	0,6,6	-	-	-		
87	OHX	5	3566	36,88	0,6,6	-	-	-		
87	OHX	1	3655	88	0,6,6	-	-	-		
87	OHX	1	3645	-	0,6,6	-	-	-		
87	OHX	5	3511	88	0,6,6	-	-	-		
87	OHX	8	220	-	0,6,6	-	-	-		
87	OHX	1	3684	87	0,6,6	-	-	-		
87	OHX	1	3752	36,87	0,6,6	-	-	-		
87	OHX	6	1980	80	0,6,6	-	-	-		
87	OHX	2	2021	-	0,6,6	-	-	-		
87	OHX	6	2054	88,87,80	0,6,6	-	-	-		
87	OHX	d9	102	87	0,6,6	-	-	-		
87	OHX	5	3415	-	0,6,6	-	-	-		
87	OHX	5	3781	-	0,6,6	-	-	-		
87	OHX	6	2044	-	0,6,6	-	-	-		
87	OHX	5	3664	-	0,6,6	-	-	-		
87	OHX	m0	303	87	0,6,6	-	-	-		
87	OHX	5	3522	-	0,6,6	-	-	-		
87	OHX	1	3575	36,88	0,6,6	-	-	-		
87	OHX	1	3755	88	0,6,6	-	-	-		
87	OHX	5	3584	88	0,6,6	-	-	-		
87	OHX	6	2003	80	0,6,6	-	-	-		
87	OHX	1	3453	-	0,6,6	-	-	-		
87	OHX	5	3644	-	0,6,6	-	-	-		
87	OHX	1	3476	87	0,6,6	-	-	-		
87	OHX	6	2055	-	0,6,6	-	-	-		
87	OHX	2	1964	-	0,6,6	-	-	-		
87	OHX	M0	303	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3547	-	0,6,6	-	-	-		
87	OHX	5	3721	36,87	0,6,6	-	-	-		
87	OHX	2	1953	88	0,6,6	-	-	-		
87	OHX	1	3526	36	0,6,6	-	-	-		
87	OHX	2	1920	-	0,6,6	-	-	-		
87	OHX	6	2093	87,80	0,6,6	-	-	-		
87	OHX	5	3797	87	0,6,6	-	-	-		
87	OHX	5	3414	88	0,6,6	-	-	-		
87	OHX	5	3497	87	0,6,6	-	-	-		
87	OHX	1	3709	-	0,6,6	-	-	-		
87	OHX	5	3427	-	0,6,6	-	-	-		
87	OHX	1	3508	-	0,6,6	-	-	-		
87	OHX	1	3482	-	0,6,6	-	-	-		
87	OHX	3	201	-	0,6,6	-	-	-		
87	OHX	6	1941	80	0,6,6	-	-	-		
87	OHX	5	3447	88,87	0,6,6	-	-	-		
87	OHX	2	2048	87	0,6,6	-	-	-		
87	OHX	5	3625	36,88	0,6,6	-	-	-		
87	OHX	2	1935	-	0,6,6	-	-	-		
87	OHX	5	3485	36	0,6,6	-	-	-		
87	OHX	5	3674	-	0,6,6	-	-	-		
87	OHX	1	3724	88	0,6,6	-	-	-		
87	OHX	5	3445	87	0,6,6	-	-	-		
87	OHX	5	3464	87	0,6,6	-	-	-		
87	OHX	5	3401	36	0,6,6	-	-	-		
87	OHX	6	2063	-	0,6,6	-	-	-		
87	OHX	2	1908	-	0,6,6	-	-	-		
87	OHX	2	2052	1	0,6,6	-	-	-		
87	OHX	8	215	88	0,6,6	-	-	-		
87	OHX	2	2017	-	0,6,6	-	-	-		
87	OHX	2	2002	-	0,6,6	-	-	-		
87	OHX	3	208	-	0,6,6	-	-	-		
87	OHX	5	3805	87	0,6,6	-	-	-		
87	OHX	6	2039	88	0,6,6	-	-	-		
87	OHX	6	1922	-	0,6,6	-	-	-		
87	OHX	5	3693	-	0,6,6	-	-	-		
87	OHX	1	3489	87	0,6,6	-	-	-		
87	OHX	1	3644	-	0,6,6	-	-	-		
87	OHX	1	3594	87	0,6,6	-	-	-		
87	OHX	1	3570	-	0,6,6	-	-	-		
87	OHX	5	3541	-	0,6,6	-	-	-		
87	OHX	1	3795	87	0,6,6	-	-	-		
87	OHX	s1	302	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3646	36,88	0,6,6	-	-	-		
87	OHX	12	301	87	0,6,6	-	-	-		
87	OHX	5	3472	88	0,6,6	-	-	-		
87	OHX	1	3527	-	0,6,6	-	-	-		
87	OHX	5	3449	-	0,6,6	-	-	-		
87	OHX	5	3669	36,87	0,6,6	-	-	-		
87	OHX	5	3488	36	0,6,6	-	-	-		
87	OHX	2	2071	87	0,6,6	-	-	-		
87	OHX	5	3404	88	0,6,6	-	-	-		
87	OHX	5	3443	87	0,6,6	-	-	-		
87	OHX	6	1970	-	0,6,6	-	-	-		
87	OHX	6	2069	87	0,6,6	-	-	-		
87	OHX	6	2086	-	0,6,6	-	-	-		
87	OHX	5	3689	36	0,6,6	-	-	-		
87	OHX	5	3518	36	0,6,6	-	-	-		
87	OHX	5	3631	36	0,6,6	-	-	-		
87	OHX	1	3758	88	0,6,6	-	-	-		
87	OHX	1	3799	-	0,6,6	-	-	-		
87	OHX	1	3532	87	0,6,6	-	-	-		
87	OHX	5	3507	36	0,6,6	-	-	-		
87	OHX	1	3503	88	0,6,6	-	-	-		
87	OHX	5	3453	87	0,6,6	-	-	-		
87	OHX	5	3543	36	0,6,6	-	-	-		
87	OHX	5	3627	-	0,6,6	-	-	-		
87	OHX	5	3779	36	0,6,6	-	-	-		
87	OHX	2	2014	-	0,6,6	-	-	-		
87	OHX	5	3713	-	0,6,6	-	-	-		
87	OHX	2	1991	87,1	0,6,6	-	-	-		
87	OHX	1	3579	-	0,6,6	-	-	-		
87	OHX	5	3639	-	0,6,6	-	-	-		
87	OHX	5	3725	88,87	0,6,6	-	-	-		
87	OHX	s4	301	-	0,6,6	-	-	-		
87	OHX	1	3596	87	0,6,6	-	-	-		
87	OHX	7	210	88,87	0,6,6	-	-	-		
87	OHX	6	1958	80	0,6,6	-	-	-		
87	OHX	1	3711	87	0,6,6	-	-	-		
87	OHX	5	3482	87	0,6,6	-	-	-		
87	OHX	5	3796	-	0,6,6	-	-	-		
87	OHX	1	3602	87	0,6,6	-	-	-		
87	OHX	1	3608	87	0,6,6	-	-	-		
87	OHX	5	3763	36,87,88	0,6,6	-	-	-		
87	OHX	8	219	38	0,6,6	-	-	-		
87	OHX	1	3462	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3677	87	0,6,6	-	-	-		
87	OHX	5	3429	36,88	0,6,6	-	-	-		
87	OHX	1	3509	87	0,6,6	-	-	-		
87	OHX	5	3650	87	0,6,6	-	-	-		
87	OHX	2	2005	-	0,6,6	-	-	-		
87	OHX	1	3732	-	0,6,6	-	-	-		
87	OHX	5	3479	88,87	0,6,6	-	-	-		
87	OHX	5	3534	-	0,6,6	-	-	-		
87	OHX	5	3686	-	0,6,6	-	-	-		
87	OHX	5	3738	-	0,6,6	-	-	-		
87	OHX	5	3523	36,87	0,6,6	-	-	-		
87	OHX	2	2078	87	0,6,6	-	-	-		
87	OHX	5	3620	36,87	0,6,6	-	-	-		
87	OHX	O7	102	88,73	0,6,6	-	-	-		
87	OHX	1	3761	88	0,6,6	-	-	-		
87	OHX	1	3805	36,87	0,6,6	-	-	-		
87	OHX	L3	401	-	0,6,6	-	-	-		
87	OHX	1	3552	-	0,6,6	-	-	-		
87	OHX	2	2016	-	0,6,6	-	-	-		
87	OHX	1	3500	87	0,6,6	-	-	-		
87	OHX	2	1936	88	0,6,6	-	-	-		
87	OHX	5	3629	36	0,6,6	-	-	-		
87	OHX	1	3699	36	0,6,6	-	-	-		
87	OHX	M8	201	-	0,6,6	-	-	-		
87	OHX	m0	301	87	0,6,6	-	-	-		
87	OHX	1	3542	87	0,6,6	-	-	-		
87	OHX	6	2072	-	0,6,6	-	-	-		
87	OHX	2	2033	-	0,6,6	-	-	-		
87	OHX	2	1923	-	0,6,6	-	-	-		
87	OHX	1	4509	87	0,6,6	-	-	-		
87	OHX	5	3504	36	0,6,6	-	-	-		
87	OHX	5	3582	87	0,6,6	-	-	-		
87	OHX	8	208	88	0,6,6	-	-	-		
87	OHX	1	3712	87	0,6,6	-	-	-		
87	OHX	5	3800	36,87	0,6,6	-	-	-		
87	OHX	2	1904	-	0,6,6	-	-	-		
87	OHX	2	2024	-	0,6,6	-	-	-		
87	OHX	1	3649	-	0,6,6	-	-	-		
87	OHX	5	3583	36,87	0,6,6	-	-	-		
87	OHX	5	3613	-	0,6,6	-	-	-		
87	OHX	5	3489	36	0,6,6	-	-	-		
87	OHX	6	2061	87	0,6,6	-	-	-		
87	OHX	5	3579	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3434	87	0,6,6	-	-	-		
87	OHX	5	3682	88	0,6,6	-	-	-		
87	OHX	2	2018	87	0,6,6	-	-	-		
87	OHX	5	3557	87	0,6,6	-	-	-		
87	OHX	5	3769	36	0,6,6	-	-	-		
87	OHX	M9	201	-	0,6,6	-	-	-		
87	OHX	5	3610	88	0,6,6	-	-	-		
87	OHX	5	3565	87	0,6,6	-	-	-		
87	OHX	2	1968	-	0,6,6	-	-	-		
87	OHX	5	3770	-	0,6,6	-	-	-		
87	OHX	2	2065	-	0,6,6	-	-	-		
87	OHX	5	3647	87	0,6,6	-	-	-		
87	OHX	c5	202	17	0,6,6	-	-	-		
87	OHX	2	1906	88,87	0,6,6	-	-	-		
87	OHX	1	3636	88	0,6,6	-	-	-		
87	OHX	6	2062	-	0,6,6	-	-	-		
87	OHX	5	3495	88	0,6,6	-	-	-		
87	OHX	1	3760	87	0,6,6	-	-	-		
87	OHX	6	1933	-	0,6,6	-	-	-		
87	OHX	5	3706	87	0,6,6	-	-	-		
87	OHX	5	3437	88	0,6,6	-	-	-		
87	OHX	5	3621	36	0,6,6	-	-	-		
87	OHX	5	3553	36	0,6,6	-	-	-		
87	OHX	5	3756	87	0,6,6	-	-	-		
87	OHX	5	3641	87	0,6,6	-	-	-		
87	OHX	2	1978	-	0,6,6	-	-	-		
87	OHX	1	3798	88	0,6,6	-	-	-		
87	OHX	2	2054	88,87	0,6,6	-	-	-		
87	OHX	2	2074	87	0,6,6	-	-	-		
87	OHX	1	3658	-	0,6,6	-	-	-		
87	OHX	6	2043	87	0,6,6	-	-	-		
87	OHX	1	3723	-	0,6,6	-	-	-		
87	OHX	1	3528	-	0,6,6	-	-	-		
87	OHX	5	3765	87	0,6,6	-	-	-		
87	OHX	5	3585	-	0,6,6	-	-	-		
87	OHX	5	3673	88	0,6,6	-	-	-		
87	OHX	L3	402	-	0,6,6	-	-	-		
87	OHX	1	3673	-	0,6,6	-	-	-		
87	OHX	5	3766	-	0,6,6	-	-	-		
87	OHX	1	3407	87	0,6,6	-	-	-		
87	OHX	5	3623	-	0,6,6	-	-	-		
87	OHX	5	3552	88	0,6,6	-	-	-		
87	OHX	3	207	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3799	88,87	0,6,6	-	-	-		
87	OHX	6	1934	-	0,6,6	-	-	-		
87	OHX	2	1965	87	0,6,6	-	-	-		
87	OHX	1	3643	87	0,6,6	-	-	-		
87	OHX	2	2055	88	0,6,6	-	-	-		
87	OHX	1	3632	-	0,6,6	-	-	-		
87	OHX	1	3793	36,87	0,6,6	-	-	-		
87	OHX	6	1959	87	0,6,6	-	-	-		
87	OHX	5	3667	88	0,6,6	-	-	-		
87	OHX	6	1991	80	0,6,6	-	-	-		
87	OHX	1	3781	87	0,6,6	-	-	-		
87	OHX	5	3659	-	0,6,6	-	-	-		
87	OHX	5	3694	-	0,6,6	-	-	-		
87	OHX	6	1911	80	0,6,6	-	-	-		
87	OHX	2	1944	88	0,6,6	-	-	-		
87	OHX	5	3709	36,87,88	0,6,6	-	-	-		
87	OHX	1	3803	-	0,6,6	-	-	-		
87	OHX	1	3581	-	0,6,6	-	-	-		
87	OHX	3	204	-	0,6,6	-	-	-		
87	OHX	5	3508	87	0,6,6	-	-	-		
87	OHX	5	3607	-	0,6,6	-	-	-		
87	OHX	1	3635	87	0,6,6	-	-	-		
87	OHX	1	3746	88,87	0,6,6	-	-	-		
87	OHX	2	1954	87	0,6,6	-	-	-		
87	OHX	2	1993	88,1	0,6,6	-	-	-		
87	OHX	5	3440	36	0,6,6	-	-	-		
87	OHX	8	221	87	0,6,6	-	-	-		
87	OHX	1	3583	36	0,6,6	-	-	-		
87	OHX	1	3416	-	0,6,6	-	-	-		
87	OHX	6	1918	87	0,6,6	-	-	-		
87	OHX	1	3800	87	0,6,6	-	-	-		
87	OHX	6	1907	80	0,6,6	-	-	-		
87	OHX	2	1928	-	0,6,6	-	-	-		
87	OHX	2	1948	88,87	0,6,6	-	-	-		
87	OHX	5	3722	36,88	0,6,6	-	-	-		
87	OHX	1	3780	88	0,6,6	-	-	-		
87	OHX	5	3735	36	0,6,6	-	-	-		
87	OHX	m0	304	87	0,6,6	-	-	-		
87	OHX	5	3749	36,87	0,6,6	-	-	-		
87	OHX	6	1905	-	0,6,6	-	-	-		
87	OHX	5	3422	-	0,6,6	-	-	-		
87	OHX	1	3797	87	0,6,6	-	-	-		
87	OHX	2	1975	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	o7	503	87	0,6,6	-	-	-		
87	OHX	2	2043	-	0,6,6	-	-	-		
87	OHX	1	3625	36	0,6,6	-	-	-		
87	OHX	1	3455	88	0,6,6	-	-	-		
87	OHX	2	2012	-	0,6,6	-	-	-		
87	OHX	5	3645	36,88	0,6,6	-	-	-		
87	OHX	5	3677	-	0,6,6	-	-	-		
87	OHX	1	3569	-	0,6,6	-	-	-		
87	OHX	1	3481	-	0,6,6	-	-	-		
87	OHX	1	3403	-	0,6,6	-	-	-		
87	OHX	1	3556	36	0,6,6	-	-	-		
87	OHX	M5	301	-	0,6,6	-	-	-		
87	OHX	4	201	-	0,6,6	-	-	-		
87	OHX	1	3483	88	0,6,6	-	-	-		
87	OHX	6	1993	80	0,6,6	-	-	-		
87	OHX	5	3477	-	0,6,6	-	-	-		
87	OHX	5	3546	88	0,6,6	-	-	-		
87	OHX	2	1967	-	0,6,6	-	-	-		
87	OHX	6	2075	87,80	0,6,6	-	-	-		
87	OHX	1	3516	-	0,6,6	-	-	-		
87	OHX	1	3745	-	0,6,6	-	-	-		
87	OHX	1	3646	88	0,6,6	-	-	-		
87	OHX	5	3473	36	0,6,6	-	-	-		
87	OHX	2	2050	1	0,6,6	-	-	-		
87	OHX	c8	201	-	0,6,6	-	-	-		
87	OHX	6	2009	87	0,6,6	-	-	-		
87	OHX	5	3724	88	0,6,6	-	-	-		
90	PRO	A	3501	-	5,7,8	0.51	0	7,8,10	1.39	1 (14%)
87	OHX	1	3431	88	0,6,6	-	-	-		
87	OHX	5	3525	-	0,6,6	-	-	-		
87	OHX	1	3529	-	0,6,6	-	-	-		
87	OHX	2	1905	-	0,6,6	-	-	-		
87	OHX	1	3689	-	0,6,6	-	-	-		
87	OHX	1	3791	88	0,6,6	-	-	-		
87	OHX	1	3440	88	0,6,6	-	-	-		
87	OHX	1	3435	-	0,6,6	-	-	-		
87	OHX	1	3605	-	0,6,6	-	-	-		
87	OHX	5	3586	87	0,6,6	-	-	-		
87	OHX	6	1951	-	0,6,6	-	-	-		
87	OHX	6	1964	88,80	0,6,6	-	-	-		
87	OHX	6	1925	80	0,6,6	-	-	-		
87	OHX	1	3531	87	0,6,6	-	-	-		
87	OHX	2	2007	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3652	-	0,6,6	-	-	-		
87	OHX	5	3409	36,88	0,6,6	-	-	-		
87	OHX	15	301	-	0,6,6	-	-	-		
87	OHX	O7	103	-	0,6,6	-	-	-		
87	OHX	5	3462	36	0,6,6	-	-	-		
87	OHX	2	1962	-	0,6,6	-	-	-		
87	OHX	2	1949	-	0,6,6	-	-	-		
87	OHX	6	1930	80	0,6,6	-	-	-		
87	OHX	5	3527	36,88	0,6,6	-	-	-		
87	OHX	1	3647	36	0,6,6	-	-	-		
87	OHX	1	3510	88	0,6,6	-	-	-		
87	OHX	2	2056	-	0,6,6	-	-	-		
87	OHX	6	2058	87	0,6,6	-	-	-		
87	OHX	2	2067	-	0,6,6	-	-	-		
87	OHX	2	2076	87,1	0,6,6	-	-	-		
87	OHX	6	2037	88,80	0,6,6	-	-	-		
87	OHX	6	2090	87	0,6,6	-	-	-		
87	OHX	1	3538	88	0,6,6	-	-	-		
87	OHX	5	3503	87	0,6,6	-	-	-		
87	OHX	1	3439	88	0,6,6	-	-	-		
87	OHX	5	3699	36	0,6,6	-	-	-		
87	OHX	1	3668	88	0,6,6	-	-	-		
87	OHX	6	1920	87	0,6,6	-	-	-		
87	OHX	q2	502	88	0,6,6	-	-	-		
87	OHX	6	2011	88	0,6,6	-	-	-		
87	OHX	1	3474	87	0,6,6	-	-	-		
87	OHX	1	3663	36,87,88	0,6,6	-	-	-		
87	OHX	1	3767	-	0,6,6	-	-	-		
87	OHX	6	1923	88,80	0,6,6	-	-	-		
87	OHX	5	3444	87	0,6,6	-	-	-		
87	OHX	1	3444	-	0,6,6	-	-	-		
87	OHX	5	3589	36,87,88	0,6,6	-	-	-		
87	OHX	2	2066	-	0,6,6	-	-	-		
87	OHX	6	2057	87,80	0,6,6	-	-	-		
87	OHX	2	2061	-	0,6,6	-	-	-		
87	OHX	1	3664	88	0,6,6	-	-	-		
87	OHX	1	3609	88	0,6,6	-	-	-		
87	OHX	5	3719	88	0,6,6	-	-	-		
87	OHX	1	3501	87	0,6,6	-	-	-		
87	OHX	6	2034	87,80	0,6,6	-	-	-		
87	OHX	1	3788	87	0,6,6	-	-	-		
87	OHX	1	3619	-	0,6,6	-	-	-		
87	OHX	5	3751	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3670	88	0,6,6	-	-	-		
87	OHX	6	2000	88	0,6,6	-	-	-		
87	OHX	2	2039	87	0,6,6	-	-	-		
87	OHX	1	3648	88	0,6,6	-	-	-		
87	OHX	1	3409	-	0,6,6	-	-	-		
87	OHX	1	3519	88	0,6,6	-	-	-		
87	OHX	2	1925	-	0,6,6	-	-	-		
87	OHX	2	2062	1	0,6,6	-	-	-		
87	OHX	5	4574	88,37,87	0,6,6	-	-	-		
87	OHX	6	2019	88	0,6,6	-	-	-		
87	OHX	6	2068	87,80	0,6,6	-	-	-		
87	OHX	6	1984	80	0,6,6	-	-	-		
87	OHX	1	3504	87	0,6,6	-	-	-		
87	OHX	1	3794	-	0,6,6	-	-	-		
87	OHX	5	3728	87	0,6,6	-	-	-		
87	OHX	1	3496	-	0,6,6	-	-	-		
87	OHX	5	3672	36	0,6,6	-	-	-		
87	OHX	5	3702	88	0,6,6	-	-	-		
87	OHX	1	3717	87	0,6,6	-	-	-		
87	OHX	5	3468	-	0,6,6	-	-	-		
87	OHX	5	3500	-	0,6,6	-	-	-		
87	OHX	6	2097	88,87	0,6,6	-	-	-		
87	OHX	1	3511	-	0,6,6	-	-	-		
87	OHX	6	1945	88,80	0,6,6	-	-	-		
87	OHX	6	2060	-	0,6,6	-	-	-		
87	OHX	6	1963	80	0,6,6	-	-	-		
87	OHX	2	2032	88	0,6,6	-	-	-		
87	OHX	1	3764	36,87,88	0,6,6	-	-	-		
87	OHX	6	1924	88	0,6,6	-	-	-		
87	OHX	5	3466	88	0,6,6	-	-	-		
87	OHX	1	3533	-	0,6,6	-	-	-		
87	OHX	5	3492	88	0,6,6	-	-	-		
87	OHX	5	3712	88,87	0,6,6	-	-	-		
87	OHX	1	3696	88,87	0,6,6	-	-	-		
87	OHX	2	2053	87	0,6,6	-	-	-		
87	OHX	2	1966	88	0,6,6	-	-	-		
87	OHX	2	1969	1	0,6,6	-	-	-		
87	OHX	2	1913	88	0,6,6	-	-	-		
87	OHX	1	3417	88	0,6,6	-	-	-		
87	OHX	6	1940	-	0,6,6	-	-	-		
87	OHX	C5	201	17	0,6,6	-	-	-		
87	OHX	5	3778	36	0,6,6	-	-	-		
87	OHX	5	3512	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3567	87	0,6,6	-	-	-		
87	OHX	5	3704	87	0,6,6	-	-	-		
87	OHX	1	3633	-	0,6,6	-	-	-		
87	OHX	6	2026	80	0,6,6	-	-	-		
87	OHX	5	3551	88	0,6,6	-	-	-		
87	OHX	8	218	38	0,6,6	-	-	-		
87	OHX	5	3717	36	0,6,6	-	-	-		
87	OHX	1	3779	87	0,6,6	-	-	-		
87	OHX	6	2079	88	0,6,6	-	-	-		
87	OHX	8	211	38	0,6,6	-	-	-		
87	OHX	1	3624	88	0,6,6	-	-	-		
87	OHX	2	2087	87	0,6,6	-	-	-		
87	OHX	1	3464	-	0,6,6	-	-	-		
87	OHX	6	2045	88,80	0,6,6	-	-	-		
87	OHX	1	3703	-	0,6,6	-	-	-		
87	OHX	5	3451	87	0,6,6	-	-	-		
87	OHX	1	3600	-	0,6,6	-	-	-		
87	OHX	3	209	87	0,6,6	-	-	-		
87	OHX	5	3569	88,87	0,6,6	-	-	-		
87	OHX	5	3742	36	0,6,6	-	-	-		
87	OHX	5	3556	36,87	0,6,6	-	-	-		
87	OHX	6	2029	-	0,6,6	-	-	-		
87	OHX	1	3695	87	0,6,6	-	-	-		
87	OHX	6	1929	88	0,6,6	-	-	-		
87	OHX	2	2027	87	0,6,6	-	-	-		
87	OHX	5	3502	36,87,88	0,6,6	-	-	-		
87	OHX	2	1956	-	0,6,6	-	-	-		
87	OHX	6	1996	-	0,6,6	-	-	-		
87	OHX	2	1901	-	0,6,6	-	-	-		
87	OHX	5	3678	-	0,6,6	-	-	-		
87	OHX	6	1913	80	0,6,6	-	-	-		
87	OHX	5	3410	88	0,6,6	-	-	-		
87	OHX	2	1917	-	0,6,6	-	-	-		
87	OHX	5	3666	36	0,6,6	-	-	-		
87	OHX	1	3727	87	0,6,6	-	-	-		
87	OHX	5	3635	88	0,6,6	-	-	-		
87	OHX	1	3683	36,88	0,6,6	-	-	-		
87	OHX	6	1931	87,80	0,6,6	-	-	-		
87	OHX	13	402	-	0,6,6	-	-	-		
87	OHX	1	3488	-	0,6,6	-	-	-		
87	OHX	1	3757	-	0,6,6	-	-	-		
87	OHX	2	1937	88	0,6,6	-	-	-		
87	OHX	2	1957	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	1	3578	36	0,6,6	-	-	-		
87	OHX	1	3441	-	0,6,6	-	-	-		
87	OHX	6	1986	88	0,6,6	-	-	-		
87	OHX	1	3430	-	0,6,6	-	-	-		
87	OHX	5	3684	87	0,6,6	-	-	-		
87	OHX	5	3536	87	0,6,6	-	-	-		
87	OHX	5	3653	88,87	0,6,6	-	-	-		
87	OHX	5	3614	88	0,6,6	-	-	-		
87	OHX	2	1916	1	0,6,6	-	-	-		
87	OHX	1	3571	87	0,6,6	-	-	-		
87	OHX	5	3622	-	0,6,6	-	-	-		
87	OHX	6	2077	87	0,6,6	-	-	-		
87	OHX	5	3550	-	0,6,6	-	-	-		
87	OHX	1	3521	88	0,6,6	-	-	-		
87	OHX	6	2049	80	0,6,6	-	-	-		
87	OHX	1	3456	-	0,6,6	-	-	-		
87	OHX	2	1985	-	0,6,6	-	-	-		
87	OHX	5	3648	87	0,6,6	-	-	-		
87	OHX	1	3421	-	0,6,6	-	-	-		
87	OHX	5	3455	36	0,6,6	-	-	-		
87	OHX	2	1987	-	0,6,6	-	-	-		
87	OHX	m1	201	-	0,6,6	-	-	-		
87	OHX	1	3484	88,87	0,6,6	-	-	-		
87	OHX	1	3554	-	0,6,6	-	-	-		
87	OHX	1	3714	87	0,6,6	-	-	-		
87	OHX	5	3655	36,87	0,6,6	-	-	-		
87	OHX	1	3754	36,88	0,6,6	-	-	-		
87	OHX	2	2031	87	0,6,6	-	-	-		
87	OHX	1	3784	87	0,6,6	-	-	-		
87	OHX	1	3637	-	0,6,6	-	-	-		
87	OHX	O1	201	88,87	0,6,6	-	-	-		
87	OHX	6	2088	87	0,6,6	-	-	-		
87	OHX	5	3461	88,87	0,6,6	-	-	-		
87	OHX	2	1995	-	0,6,6	-	-	-		
87	OHX	1	3729	88	0,6,6	-	-	-		
87	OHX	5	3515	36	0,6,6	-	-	-		
87	OHX	6	2081	-	0,6,6	-	-	-		
87	OHX	2	1926	-	0,6,6	-	-	-		
87	OHX	1	3459	-	0,6,6	-	-	-		
87	OHX	1	3661	88	0,6,6	-	-	-		
87	OHX	5	3575	36	0,6,6	-	-	-		
87	OHX	8	212	87	0,6,6	-	-	-		
87	OHX	1	3450	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3516	88	0,6,6	-	-	-		
87	OHX	2	2064	87	0,6,6	-	-	-		
87	OHX	2	2080	88,87	0,6,6	-	-	-		
87	OHX	N9	101	-	0,6,6	-	-	-		
87	OHX	1	3718	87	0,6,6	-	-	-		
87	OHX	1	3404	88	0,6,6	-	-	-		
87	OHX	6	1919	87,80	0,6,6	-	-	-		
87	OHX	5	3545	-	0,6,6	-	-	-		
87	OHX	4	205	-	0,6,6	-	-	-		
87	OHX	4	217	-	0,6,6	-	-	-		
87	OHX	1	3686	-	0,6,6	-	-	-		
87	OHX	5	3537	87	0,6,6	-	-	-		
87	OHX	6	2022	87,80	0,6,6	-	-	-		
87	OHX	2	1911	88	0,6,6	-	-	-		
87	OHX	1	3410	-	0,6,6	-	-	-		
87	OHX	1	3621	87	0,6,6	-	-	-		
87	OHX	6	1994	-	0,6,6	-	-	-		
87	OHX	5	3529	36,87	0,6,6	-	-	-		
87	OHX	1	3626	-	0,6,6	-	-	-		
87	OHX	6	2073	-	0,6,6	-	-	-		
87	OHX	4	214	38	0,6,6	-	-	-		
87	OHX	1	3606	-	0,6,6	-	-	-		
87	OHX	2	2034	-	0,6,6	-	-	-		
87	OHX	2	2049	-	0,6,6	-	-	-		
87	OHX	5	3701	88	0,6,6	-	-	-		
87	OHX	1	3436	-	0,6,6	-	-	-		
87	OHX	1	3611	87	0,6,6	-	-	-		
87	OHX	5	3558	-	0,6,6	-	-	-		
87	OHX	2	1931	-	0,6,6	-	-	-		
87	OHX	6	2048	-	0,6,6	-	-	-		
87	OHX	1	3615	36	0,6,6	-	-	-		
87	OHX	5	3501	87	0,6,6	-	-	-		
87	OHX	5	3726	36	0,6,6	-	-	-		
87	OHX	1	3591	87	0,6,6	-	-	-		
87	OHX	1	3766	-	0,6,6	-	-	-		
87	OHX	4	212	38	0,6,6	-	-	-		
87	OHX	6	2092	88,87	0,6,6	-	-	-		
87	OHX	6	1968	88	0,6,6	-	-	-		
87	OHX	2	1950	-	0,6,6	-	-	-		
87	OHX	C8	202	36,87	0,6,6	-	-	-		
87	OHX	1	3494	88	0,6,6	-	-	-		
87	OHX	1	3467	88	0,6,6	-	-	-		
87	OHX	1	3593	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3416	36,88	0,6,6	-	-	-		
87	OHX	6	1992	88	0,6,6	-	-	-		
87	OHX	1	3694	-	0,6,6	-	-	-		
87	OHX	8	214	-	0,6,6	-	-	-		
87	OHX	2	2020	-	0,6,6	-	-	-		
87	OHX	5	3801	87	0,6,6	-	-	-		
87	OHX	M0	304	87	0,6,6	-	-	-		
87	OHX	5	3519	87	0,6,6	-	-	-		
87	OHX	1	3662	-	0,6,6	-	-	-		
87	OHX	1	3651	88	0,6,6	-	-	-		
87	OHX	5	3580	-	0,6,6	-	-	-		
87	OHX	6	2001	-	0,6,6	-	-	-		
87	OHX	5	3538	36	0,6,6	-	-	-		
87	OHX	2	2041	-	0,6,6	-	-	-		
87	OHX	1	3630	-	0,6,6	-	-	-		
87	OHX	1	3768	-	0,6,6	-	-	-		
87	OHX	5	3739	-	0,6,6	-	-	-		
87	OHX	2	2022	87	0,6,6	-	-	-		
87	OHX	1	3442	88	0,6,6	-	-	-		
87	OHX	5	3663	-	0,6,6	-	-	-		
87	OHX	1	3603	-	0,6,6	-	-	-		
87	OHX	5	3594	36,87	0,6,6	-	-	-		
87	OHX	5	3727	88,87	0,6,6	-	-	-		
87	OHX	2	2059	87	0,6,6	-	-	-		
87	OHX	6	1949	88,87	0,6,6	-	-	-		
87	OHX	6	1942	80	0,6,6	-	-	-		
87	OHX	6	1961	-	0,6,6	-	-	-		
87	OHX	1	3707	87	0,6,6	-	-	-		
87	OHX	1	3545	-	0,6,6	-	-	-		
87	OHX	7	202	-	0,6,6	-	-	-		
87	OHX	5	3402	36,88	0,6,6	-	-	-		
87	OHX	1	3690	-	0,6,6	-	-	-		
87	OHX	6	1954	87	0,6,6	-	-	-		
87	OHX	o9	101	88	0,6,6	-	-	-		
87	OHX	1	3478	-	0,6,6	-	-	-		
87	OHX	1	3623	88	0,6,6	-	-	-		
87	OHX	1	3537	-	0,6,6	-	-	-		
87	OHX	5	3490	-	0,6,6	-	-	-		
87	OHX	5	3788	87	0,6,6	-	-	-		
87	OHX	5	3619	88	0,6,6	-	-	-		
87	OHX	1	3472	87	0,6,6	-	-	-		
87	OHX	1	3698	88	0,6,6	-	-	-		
87	OHX	1	3466	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	6	1999	-	0,6,6	-	-	-		
87	OHX	5	3670	36,87	0,6,6	-	-	-		
87	OHX	5	3574	-	0,6,6	-	-	-		
87	OHX	6	2015	87	0,6,6	-	-	-		
87	OHX	1	3522	-	0,6,6	-	-	-		
87	OHX	1	3607	-	0,6,6	-	-	-		
87	OHX	1	3465	87	0,6,6	-	-	-		
87	OHX	2	1973	87	0,6,6	-	-	-		
87	OHX	1	3641	88	0,6,6	-	-	-		
87	OHX	5	3459	88	0,6,6	-	-	-		
87	OHX	5	3736	-	0,6,6	-	-	-		
87	OHX	5	3408	-	0,6,6	-	-	-		
87	OHX	1	3775	87	0,6,6	-	-	-		
87	OHX	6	2030	-	0,6,6	-	-	-		
87	OHX	5	3711	36,87	0,6,6	-	-	-		
87	OHX	2	1930	-	0,6,6	-	-	-		
87	OHX	2	2028	1	0,6,6	-	-	-		
87	OHX	7	201	37	0,6,6	-	-	-		
87	OHX	6	2047	-	0,6,6	-	-	-		
87	OHX	SR	401	-	0,6,6	-	-	-		
87	OHX	5	3624	88	0,6,6	-	-	-		
87	OHX	14	401	-	0,6,6	-	-	-		
87	OHX	5	3423	-	0,6,6	-	-	-		
87	OHX	1	3524	-	0,6,6	-	-	-		
87	OHX	6	2002	88,87,80	0,6,6	-	-	-		
87	OHX	6	2067	87	0,6,6	-	-	-		
87	OHX	5	3487	88	0,6,6	-	-	-		
87	OHX	5	3481	88	0,6,6	-	-	-		
87	OHX	6	1943	-	0,6,6	-	-	-		
87	OHX	5	3732	87	0,6,6	-	-	-		
87	OHX	1	3564	88	0,6,6	-	-	-		
87	OHX	5	3533	36	0,6,6	-	-	-		
87	OHX	1	3486	-	0,6,6	-	-	-		
87	OHX	1	3774	-	0,6,6	-	-	-		
87	OHX	5	3808	-	0,6,6	-	-	-		
87	OHX	1	3616	88	0,6,6	-	-	-		
87	OHX	3	206	-	0,6,6	-	-	-		
87	OHX	6	1988	-	0,6,6	-	-	-		
87	OHX	1	3514	87	0,6,6	-	-	-		
87	OHX	1	3412	-	0,6,6	-	-	-		
87	OHX	1	3792	-	0,6,6	-	-	-		
87	OHX	5	3696	36,87	0,6,6	-	-	-		
87	OHX	1	3809	87	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	5	3587	88	0,6,6	-	-	-		
87	OHX	1	3565	-	0,6,6	-	-	-		
87	OHX	5	3654	36,88	0,6,6	-	-	-		
87	OHX	5	3615	88	0,6,6	-	-	-		
87	OHX	6	1998	80	0,6,6	-	-	-		
87	OHX	2	2042	-	0,6,6	-	-	-		
87	OHX	2	1952	1	0,6,6	-	-	-		
87	OHX	5	3777	-	0,6,6	-	-	-		
87	OHX	2	2057	88	0,6,6	-	-	-		
87	OHX	1	3777	-	0,6,6	-	-	-		
87	OHX	5	3782	88	0,6,6	-	-	-		
87	OHX	1	3785	87	0,6,6	-	-	-		
87	OHX	6	1953	-	0,6,6	-	-	-		
87	OHX	6	2010	87,80	0,6,6	-	-	-		
87	OHX	1	3477	-	0,6,6	-	-	-		
87	OHX	1	3598	87	0,6,6	-	-	-		
87	OHX	5	3715	36	0,6,6	-	-	-		
87	OHX	6	2095	-	0,6,6	-	-	-		
87	OHX	5	3567	36,88	0,6,6	-	-	-		
87	OHX	5	3542	-	0,6,6	-	-	-		
87	OHX	1	3562	-	0,6,6	-	-	-		
87	OHX	6	2036	88,80	0,6,6	-	-	-		
87	OHX	1	3691	87	0,6,6	-	-	-		
87	OHX	1	3585	-	0,6,6	-	-	-		
87	OHX	2	1990	87,1	0,6,6	-	-	-		
87	OHX	1	3473	88,87	0,6,6	-	-	-		
87	OHX	5	3740	-	0,6,6	-	-	-		
87	OHX	1	3753	36,87,88	0,6,6	-	-	-		
87	OHX	1	3559	88	0,6,6	-	-	-		
87	OHX	1	3572	-	0,6,6	-	-	-		
87	OHX	6	1935	80	0,6,6	-	-	-		
87	OHX	m9	201	-	0,6,6	-	-	-		
87	OHX	5	3484	36	0,6,6	-	-	-		
87	OHX	2	1958	-	0,6,6	-	-	-		
87	OHX	5	3642	-	0,6,6	-	-	-		
87	OHX	5	3649	-	0,6,6	-	-	-		
87	OHX	5	3526	88	0,6,6	-	-	-		
87	OHX	7	205	-	0,6,6	-	-	-		
87	OHX	1	3749	87	0,6,6	-	-	-		
87	OHX	2	2089	87	0,6,6	-	-	-		
87	OHX	6	1977	88	0,6,6	-	-	-		
87	OHX	6	2082	87	0,6,6	-	-	-		
87	OHX	1	3589	88	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	8	209	-	0,6,6	-	-	-		
87	OHX	4	210	88	0,6,6	-	-	-		
87	OHX	1	3586	87	0,6,6	-	-	-		
87	OHX	2	1943	87	0,6,6	-	-	-		
87	OHX	5	3748	-	0,6,6	-	-	-		
87	OHX	3	211	87	0,6,6	-	-	-		
87	OHX	1	3592	88,87	0,6,6	-	-	-		
87	OHX	5	3809	36	0,6,6	-	-	-		
87	OHX	1	3802	88	0,6,6	-	-	-		
87	OHX	3	212	-	0,6,6	-	-	-		
87	OHX	1	3549	87	0,6,6	-	-	-		
87	OHX	5	3425	36	0,6,6	-	-	-		
87	OHX	6	1938	87,80	0,6,6	-	-	-		
87	OHX	1	3590	-	0,6,6	-	-	-		
87	OHX	6	2032	87,80	0,6,6	-	-	-		
87	OHX	5	3760	-	0,6,6	-	-	-		
87	OHX	1	3705	36,87,88	0,6,6	-	-	-		
87	OHX	6	1971	88,87	0,6,6	-	-	-		
87	OHX	1	3628	-	0,6,6	-	-	-		
87	OHX	5	3661	-	0,6,6	-	-	-		
87	OHX	5	3450	36,87	0,6,6	-	-	-		
87	OHX	1	3544	88	0,6,6	-	-	-		
87	OHX	5	3750	-	0,6,6	-	-	-		
87	OHX	5	3683	-	0,6,6	-	-	-		
87	OHX	5	3412	-	0,6,6	-	-	-		
87	OHX	1	3599	-	0,6,6	-	-	-		
87	OHX	l3	401	-	0,6,6	-	-	-		
87	OHX	5	3723	88,87	0,6,6	-	-	-		
87	OHX	8	217	-	0,6,6	-	-	-		
87	OHX	2	1939	-	0,6,6	-	-	-		
87	OHX	1	3420	-	0,6,6	-	-	-		
87	OHX	2	1919	1	0,6,6	-	-	-		
87	OHX	1	3406	36	0,6,6	-	-	-		
87	OHX	5	3578	87	0,6,6	-	-	-		
87	OHX	1	3546	88	0,6,6	-	-	-		
87	OHX	2	1918	88,87	0,6,6	-	-	-		
87	OHX	o3	201	-	0,6,6	-	-	-		
87	OHX	1	3597	87	0,6,6	-	-	-		
87	OHX	7	204	88	0,6,6	-	-	-		
87	OHX	1	3539	-	0,6,6	-	-	-		
87	OHX	1	3660	-	0,6,6	-	-	-		
87	OHX	1	3692	87	0,6,6	-	-	-		
87	OHX	6	1936	80	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	2	1976	87	0,6,6	-	-	-		
87	OHX	C8	201	88,87	0,6,6	-	-	-		
87	OHX	5	3456	36,87	0,6,6	-	-	-		
87	OHX	2	2046	1	0,6,6	-	-	-		
87	OHX	5	3421	-	0,6,6	-	-	-		
87	OHX	5	3433	36	0,6,6	-	-	-		
87	OHX	1	3499	-	0,6,6	-	-	-		
87	OHX	5	3643	36	0,6,6	-	-	-		
87	OHX	2	1940	87	0,6,6	-	-	-		
87	OHX	2	1977	87	0,6,6	-	-	-		
87	OHX	1	3601	87	0,6,6	-	-	-		
87	OHX	5	3413	-	0,6,6	-	-	-		
87	OHX	2	2019	88	0,6,6	-	-	-		
87	OHX	1	3577	88,87	0,6,6	-	-	-		
87	OHX	5	3591	-	0,6,6	-	-	-		
87	OHX	2	2068	87	0,6,6	-	-	-		
87	OHX	6	2080	88	0,6,6	-	-	-		
87	OHX	2	2026	87	0,6,6	-	-	-		
87	OHX	1	3733	36	0,6,6	-	-	-		
87	OHX	5	3784	87	0,6,6	-	-	-		
87	OHX	1	3783	-	0,6,6	-	-	-		
87	OHX	s8	301	-	0,6,6	-	-	-		
87	OHX	5	3803	36,87	0,6,6	-	-	-		
87	OHX	1	3642	88	0,6,6	-	-	-		
87	OHX	6	1997	-	0,6,6	-	-	-		
87	OHX	6	2087	-	0,6,6	-	-	-		
87	OHX	1	3810	36,87	0,6,6	-	-	-		
87	OHX	5	3524	-	0,6,6	-	-	-		
87	OHX	1	3716	-	0,6,6	-	-	-		
87	OHX	5	3636	-	0,6,6	-	-	-		
87	OHX	5	3780	-	0,6,6	-	-	-		
87	OHX	6	1987	-	0,6,6	-	-	-		
87	OHX	n1	201	88	0,6,6	-	-	-		
87	OHX	5	3486	-	0,6,6	-	-	-		
87	OHX	1	3726	-	0,6,6	-	-	-		
87	OHX	6	1946	-	0,6,6	-	-	-		
87	OHX	1	3458	-	0,6,6	-	-	-		
87	OHX	6	2005	87	0,6,6	-	-	-		
87	OHX	1	3480	-	0,6,6	-	-	-		
87	OHX	8	210	-	0,6,6	-	-	-		
87	OHX	2	2029	1	0,6,6	-	-	-		
87	OHX	6	1972	88	0,6,6	-	-	-		
87	OHX	1	3415	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	2	2025	88	0,6,6	-	-	-		
87	OHX	1	3778	-	0,6,6	-	-	-		
87	OHX	6	2078	-	0,6,6	-	-	-		
87	OHX	2	1929	88	0,6,6	-	-	-		
87	OHX	1	3425	88	0,6,6	-	-	-		
87	OHX	5	3759	-	0,6,6	-	-	-		
87	OHX	1	3728	-	0,6,6	-	-	-		
87	OHX	5	3603	36	0,6,6	-	-	-		
87	OHX	1	3498	36,87,88	0,6,6	-	-	-		
87	OHX	2	2051	-	0,6,6	-	-	-		
87	OHX	5	3520	87	0,6,6	-	-	-		
87	OHX	2	1980	87	0,6,6	-	-	-		
87	OHX	2	1933	87	0,6,6	-	-	-		
87	OHX	5	3505	87	0,6,6	-	-	-		
87	OHX	2	1942	88,1	0,6,6	-	-	-		
87	OHX	8	207	87,38	0,6,6	-	-	-		
87	OHX	5	3436	-	0,6,6	-	-	-		
87	OHX	5	3611	36,87,86	0,6,6	-	-	-		
87	OHX	1	3771	87	0,6,6	-	-	-		
87	OHX	1	3475	87	0,6,6	-	-	-		
87	OHX	1	3618	-	0,6,6	-	-	-		
87	OHX	1	3772	87	0,6,6	-	-	-		
87	OHX	15	303	-	0,6,6	-	-	-		
87	OHX	1	3451	87	0,6,6	-	-	-		
87	OHX	5	3676	88	0,6,6	-	-	-		
87	OHX	1	3588	88	0,6,6	-	-	-		
87	OHX	5	3813	87	0,6,6	-	-	-		
87	OHX	1	3679	-	0,6,6	-	-	-		
87	OHX	L5	301	-	0,6,6	-	-	-		
87	OHX	1	3530	88	0,6,6	-	-	-		
87	OHX	5	3776	-	0,6,6	-	-	-		
87	OHX	5	3491	88	0,6,6	-	-	-		
87	OHX	6	1921	-	0,6,6	-	-	-		
87	OHX	5	3745	87	0,6,6	-	-	-		
87	OHX	1	3433	87	0,6,6	-	-	-		
87	OHX	6	1985	88	0,6,6	-	-	-		
87	OHX	1	3687	36,87	0,6,6	-	-	-		
87	OHX	2	1947	88	0,6,6	-	-	-		
87	OHX	6	2094	87,80	0,6,6	-	-	-		
87	OHX	5	3431	-	0,6,6	-	-	-		
87	OHX	5	3651	36,87	0,6,6	-	-	-		
87	OHX	6	2018	87	0,6,6	-	-	-		
87	OHX	5	3439	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
87	OHX	2	2035	87	0,6,6	-	-	-		
87	OHX	2	1972	1	0,6,6	-	-	-		
87	OHX	2	1941	-	0,6,6	-	-	-		
87	OHX	1	3671	36,87	0,6,6	-	-	-		
87	OHX	5	3605	88,87	0,6,6	-	-	-		
87	OHX	5	3426	36	0,6,6	-	-	-		
87	OHX	19	201	-	0,6,6	-	-	-		
87	OHX	2	2030	87	0,6,6	-	-	-		
87	OHX	1	3512	88	0,6,6	-	-	-		
87	OHX	1	3428	88	0,6,6	-	-	-		
87	OHX	1	3704	88	0,6,6	-	-	-		
87	OHX	1	3541	-	0,6,6	-	-	-		
87	OHX	1	3700	-	0,6,6	-	-	-		
87	OHX	2	2063	-	0,6,6	-	-	-		
87	OHX	5	3595	87	0,6,6	-	-	-		
87	OHX	5	3424	-	0,6,6	-	-	-		
87	OHX	2	2040	-	0,6,6	-	-	-		
87	OHX	1	3622	-	0,6,6	-	-	-		
87	OHX	6	2017	80	0,6,6	-	-	-		
87	OHX	1	3786	88	0,6,6	-	-	-		
87	OHX	1	3551	-	0,6,6	-	-	-		
87	OHX	4	213	-	0,6,6	-	-	-		
87	OHX	6	1975	87,80	0,6,6	-	-	-		
87	OHX	1	3710	-	0,6,6	-	-	-		
87	OHX	6	2074	80	0,6,6	-	-	-		
87	OHX	2	1922	88,87	0,6,6	-	-	-		
87	OHX	1	3762	-	0,6,6	-	-	-		
87	OHX	1	3806	88,87	0,6,6	-	-	-		
87	OHX	8	206	-	0,6,6	-	-	-		
87	OHX	1	3438	-	0,6,6	-	-	-		

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
90	PRO	A	3501	-	-	0/0/9/11	0/1/1/1
90	PRO	B	3501	-	-	0/0/9/11	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
90	A	3501	PRO	O-C-CA	-2.21	118.98	124.78
90	B	3501	PRO	O-C-CA	-2.21	118.99	124.78

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

570 monomers are involved in 836 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	5	3665	OHX	1	0
87	1	3446	OHX	1	0
87	2	1970	OHX	2	0
87	1	3413	OHX	1	0
87	6	2038	OHX	1	0
87	5	3563	OHX	1	0
87	1	3573	OHX	1	0
87	3	205	OHX	1	0
87	2	1992	OHX	1	0
87	5	3609	OHX	2	0
87	5	3632	OHX	3	0
87	5	3697	OHX	1	0
87	n9	101	OHX	1	0
87	5	3795	OHX	1	0
87	1	3650	OHX	1	0
87	5	3480	OHX	1	0
87	5	3419	OHX	1	0
87	1	3566	OHX	2	0
87	5	3417	OHX	2	0
87	6	1983	OHX	1	0
87	2	1971	OHX	1	0
87	2	2037	OHX	2	0
87	1	3801	OHX	1	0
87	5	3785	OHX	1	0
87	5	3792	OHX	1	0
87	1	3580	OHX	2	0
87	5	3688	OHX	1	0
87	5	3434	OHX	1	0
87	5	3608	OHX	2	0
87	2	2009	OHX	2	0
87	2	2003	OHX	3	0
87	6	1909	OHX	1	0
87	1	3414	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	3457	OHX	1	0
87	5	3593	OHX	4	0
87	5	3716	OHX	1	0
87	1	3680	OHX	1	0
87	6	1912	OHX	2	0
87	1	3796	OHX	2	0
87	8	203	OHX	2	0
87	2	1984	OHX	2	0
87	6	2056	OHX	3	0
87	2	1981	OHX	1	0
87	1	3652	OHX	1	0
87	5	3714	OHX	1	0
87	1	3656	OHX	1	0
87	5	3789	OHX	1	0
87	6	1915	OHX	1	0
87	2	2010	OHX	1	0
87	6	2004	OHX	1	0
87	5	3772	OHX	1	0
87	6	2084	OHX	1	0
87	5	3493	OHX	2	0
87	6	1903	OHX	1	0
87	1	3627	OHX	1	0
87	1	3411	OHX	1	0
87	6	1939	OHX	2	0
87	5	3757	OHX	1	0
87	5	3741	OHX	1	0
87	6	2035	OHX	2	0
87	S8	301	OHX	2	0
87	5	3554	OHX	1	0
87	1	3443	OHX	1	0
87	1	3736	OHX	1	0
87	1	3479	OHX	1	0
87	1	3534	OHX	1	0
87	2	1912	OHX	1	0
87	5	3804	OHX	4	0
87	5	3806	OHX	2	0
87	2	2004	OHX	1	0
87	5	3771	OHX	1	0
87	Q2	502	OHX	2	0
87	6	2008	OHX	1	0
87	1	3742	OHX	2	0
87	5	3446	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	5	3687	OHX	1	0
87	2	2013	OHX	1	0
87	s1	301	OHX	2	0
87	6	1966	OHX	2	0
87	1	3725	OHX	2	0
87	6	1969	OHX	1	0
87	1	3681	OHX	3	0
87	6	2023	OHX	1	0
87	2	1997	OHX	2	0
87	1	3492	OHX	1	0
87	1	3540	OHX	2	0
87	8	201	OHX	2	0
87	5	3403	OHX	2	0
87	2	1955	OHX	1	0
87	l5	302	OHX	3	0
87	2	1927	OHX	1	0
87	5	3494	OHX	1	0
87	1	3558	OHX	2	0
87	1	3804	OHX	1	0
87	4	206	OHX	2	0
87	6	1901	OHX	1	0
87	5	3513	OHX	1	0
87	6	2021	OHX	1	0
87	1	3750	OHX	1	0
87	1	3419	OHX	1	0
87	1	3787	OHX	1	0
87	5	3707	OHX	1	0
87	6	1957	OHX	1	0
87	4	209	OHX	1	0
87	6	1916	OHX	2	0
87	1	3505	OHX	1	0
87	6	2098	OHX	5	0
87	6	2028	OHX	1	0
87	6	2083	OHX	1	0
87	2	1946	OHX	1	0
87	6	1974	OHX	1	0
87	1	3490	OHX	1	0
87	1	3471	OHX	3	0
87	6	1926	OHX	1	0
87	2	2081	OHX	1	0
87	1	3574	OHX	1	0
87	D9	102	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	3426	OHX	1	0
87	2	2084	OHX	1	0
87	5	3758	OHX	1	0
87	6	2041	OHX	1	0
87	5	3658	OHX	1	0
87	6	1955	OHX	1	0
87	S2	301	OHX	2	0
87	n3	202	OHX	1	0
87	1	3470	OHX	2	0
87	2	1961	OHX	1	0
87	2	1945	OHX	1	0
87	2	1915	OHX	1	0
87	5	3773	OHX	1	0
87	2	1924	OHX	1	0
87	5	3802	OHX	3	0
87	5	3457	OHX	2	0
87	1	3535	OHX	2	0
87	3	202	OHX	1	0
87	8	204	OHX	1	0
87	1	3747	OHX	9	0
87	2	1932	OHX	1	0
87	1	3638	OHX	1	0
87	6	2051	OHX	2	0
87	1	3737	OHX	2	0
87	5	3581	OHX	1	0
87	5	3753	OHX	1	0
87	6	1967	OHX	1	0
87	n3	201	OHX	1	0
87	5	3460	OHX	2	0
87	5	3807	OHX	1	0
87	1	3427	OHX	1	0
87	6	1910	OHX	2	0
87	5	3656	OHX	1	0
87	2	2085	OHX	2	0
87	5	3592	OHX	1	0
87	5	3528	OHX	1	0
87	1	3595	OHX	1	0
87	6	2066	OHX	1	0
87	5	3634	OHX	1	0
87	1	3520	OHX	2	0
87	5	3700	OHX	1	0
87	5	3561	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	2	1963	OHX	2	0
87	5	3705	OHX	3	0
87	6	1956	OHX	1	0
87	5	3411	OHX	1	0
87	5	3755	OHX	1	0
87	2	1909	OHX	5	0
87	8	216	OHX	1	0
87	5	3597	OHX	1	0
87	1	3518	OHX	1	0
87	2	2011	OHX	1	0
87	m0	302	OHX	3	0
87	1	3449	OHX	3	0
87	5	3604	OHX	1	0
87	5	3535	OHX	1	0
87	1	3751	OHX	1	0
87	5	3720	OHX	3	0
87	5	3517	OHX	2	0
87	1	3515	OHX	1	0
87	5	3718	OHX	1	0
87	1	3672	OHX	1	0
87	2	2088	OHX	1	0
87	6	2065	OHX	1	0
87	6	1928	OHX	1	0
87	2	1988	OHX	1	0
87	1	3429	OHX	1	0
87	1	3685	OHX	1	0
87	6	1952	OHX	1	0
87	8	213	OHX	2	0
87	6	1978	OHX	2	0
87	1	3701	OHX	1	0
87	1	3738	OHX	2	0
87	5	3681	OHX	1	0
87	1	3463	OHX	1	0
87	6	2006	OHX	1	0
87	5	3568	OHX	2	0
87	1	3773	OHX	1	0
87	5	3588	OHX	1	0
87	M9	203	OHX	2	0
87	6	2071	OHX	1	0
87	5	3675	OHX	1	0
87	5	3521	OHX	1	0
87	1	3706	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	2	1974	OHX	1	0
87	1	3582	OHX	2	0
90	B	3501	PRO	2	0
87	5	3576	OHX	3	0
87	2	2044	OHX	2	0
87	1	3740	OHX	3	0
87	5	3510	OHX	1	0
87	8	202	OHX	1	0
87	c3	201	OHX	2	0
87	1	3495	OHX	1	0
87	2	1938	OHX	1	0
87	1	3682	OHX	1	0
87	6	2091	OHX	1	0
87	1	3610	OHX	1	0
87	5	3454	OHX	1	0
87	1	3770	OHX	1	0
87	1	3666	OHX	1	0
87	2	1914	OHX	2	0
87	6	2016	OHX	3	0
87	5	3435	OHX	1	0
87	c5	201	OHX	3	0
87	2	2023	OHX	1	0
87	5	3531	OHX	1	0
87	5	3463	OHX	3	0
87	1	3730	OHX	1	0
87	5	3432	OHX	1	0
87	5	3737	OHX	1	0
87	6	2053	OHX	1	0
87	5	3768	OHX	1	0
87	5	3754	OHX	1	0
87	1	3659	OHX	2	0
87	5	3731	OHX	1	0
87	C3	201	OHX	2	0
87	2	2047	OHX	1	0
87	5	3570	OHX	1	0
87	1	3461	OHX	1	0
87	L4	401	OHX	2	0
87	1	3776	OHX	2	0
87	1	3645	OHX	1	0
87	5	3511	OHX	1	0
87	1	3684	OHX	2	0
87	6	1980	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	2	2021	OHX	1	0
87	6	2054	OHX	1	0
87	1	3453	OHX	1	0
87	5	3644	OHX	2	0
87	1	3476	OHX	1	0
87	2	1964	OHX	4	0
87	M0	303	OHX	5	0
87	1	3547	OHX	1	0
87	2	1953	OHX	2	0
87	1	3526	OHX	1	0
87	5	3797	OHX	1	0
87	3	201	OHX	1	0
87	5	3447	OHX	1	0
87	2	1935	OHX	1	0
87	5	3485	OHX	2	0
87	1	3724	OHX	2	0
87	5	3445	OHX	1	0
87	5	3464	OHX	1	0
87	5	3401	OHX	1	0
87	8	215	OHX	1	0
87	2	2017	OHX	1	0
87	6	1922	OHX	1	0
87	1	3594	OHX	1	0
87	1	3570	OHX	1	0
87	5	3541	OHX	1	0
87	1	3795	OHX	1	0
87	s1	302	OHX	1	0
87	5	3449	OHX	4	0
87	2	2071	OHX	2	0
87	5	3443	OHX	1	0
87	6	2069	OHX	3	0
87	5	3689	OHX	2	0
87	1	3758	OHX	3	0
87	5	3507	OHX	1	0
87	1	3503	OHX	1	0
87	5	3453	OHX	1	0
87	5	3543	OHX	2	0
87	5	3627	OHX	1	0
87	5	3779	OHX	1	0
87	5	3713	OHX	2	0
87	1	3579	OHX	2	0
87	5	3725	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	s4	301	OHX	1	0
87	7	210	OHX	1	0
87	1	3711	OHX	1	0
87	1	3602	OHX	2	0
87	8	219	OHX	2	0
87	1	3509	OHX	1	0
87	5	3650	OHX	1	0
87	1	3732	OHX	1	0
87	5	3534	OHX	2	0
87	2	2078	OHX	2	0
87	O7	102	OHX	7	0
87	1	3805	OHX	6	0
87	L3	401	OHX	1	0
87	1	3552	OHX	1	0
87	2	2016	OHX	1	0
87	1	3500	OHX	1	0
87	2	1936	OHX	1	0
87	5	3629	OHX	1	0
87	1	3699	OHX	1	0
87	m0	301	OHX	1	0
87	1	3542	OHX	1	0
87	2	2033	OHX	1	0
87	2	1923	OHX	1	0
87	1	4509	OHX	1	0
87	5	3504	OHX	3	0
87	5	3582	OHX	1	0
87	2	1904	OHX	1	0
87	1	3649	OHX	1	0
87	5	3613	OHX	1	0
87	6	2061	OHX	1	0
87	2	2018	OHX	1	0
87	5	3769	OHX	1	0
87	c5	202	OHX	6	0
87	2	1906	OHX	1	0
87	1	3636	OHX	2	0
87	5	3621	OHX	1	0
87	5	3553	OHX	1	0
87	5	3641	OHX	1	0
87	1	3798	OHX	1	0
87	1	3658	OHX	1	0
87	6	2043	OHX	2	0
87	L3	402	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	5	3766	OHX	1	0
87	1	3407	OHX	3	0
87	5	3552	OHX	1	0
87	5	3799	OHX	1	0
87	6	1934	OHX	1	0
87	2	1965	OHX	1	0
87	1	3643	OHX	1	0
87	1	3632	OHX	1	0
87	1	3793	OHX	4	0
87	5	3667	OHX	1	0
87	6	1991	OHX	2	0
87	6	1911	OHX	3	0
87	2	1944	OHX	1	0
87	5	3709	OHX	2	0
87	5	3607	OHX	1	0
87	1	3635	OHX	1	0
87	2	1954	OHX	1	0
87	2	1993	OHX	1	0
87	1	3583	OHX	2	0
87	1	3416	OHX	1	0
87	2	1928	OHX	1	0
87	m0	304	OHX	1	0
87	5	3422	OHX	1	0
87	2	1975	OHX	2	0
87	o7	503	OHX	1	0
87	2	2043	OHX	1	0
87	1	3403	OHX	2	0
87	M5	301	OHX	1	0
87	6	2075	OHX	1	0
87	5	3473	OHX	2	0
87	2	2050	OHX	1	0
87	6	2009	OHX	1	0
87	5	3525	OHX	1	0
87	1	3529	OHX	1	0
87	5	3586	OHX	2	0
87	6	1951	OHX	3	0
87	6	1925	OHX	1	0
87	1	3531	OHX	3	0
87	5	3409	OHX	2	0
87	O7	103	OHX	1	0
87	2	1962	OHX	4	0
87	2	1949	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	5	3527	OHX	1	0
87	1	3647	OHX	1	0
87	6	2058	OHX	2	0
87	2	2067	OHX	1	0
87	2	2076	OHX	3	0
87	6	2090	OHX	2	0
87	1	3538	OHX	1	0
87	1	3668	OHX	1	0
87	6	1920	OHX	4	0
87	q2	502	OHX	3	0
87	1	3474	OHX	1	0
87	1	3663	OHX	1	0
87	1	3444	OHX	1	0
87	6	2057	OHX	1	0
87	2	2061	OHX	1	0
87	6	2034	OHX	1	0
87	1	3788	OHX	1	0
87	1	3648	OHX	1	0
87	1	3409	OHX	1	0
87	1	3519	OHX	1	0
87	2	1925	OHX	1	0
87	2	2062	OHX	1	0
87	6	2019	OHX	1	0
87	6	2068	OHX	1	0
87	6	1984	OHX	1	0
87	1	3496	OHX	5	0
87	5	3672	OHX	1	0
87	5	3702	OHX	1	0
87	1	3717	OHX	1	0
87	5	3500	OHX	1	0
87	6	1963	OHX	1	0
87	1	3764	OHX	1	0
87	5	3466	OHX	1	0
87	5	3492	OHX	1	0
87	5	3712	OHX	2	0
87	2	1966	OHX	1	0
87	2	1969	OHX	4	0
87	2	1913	OHX	1	0
87	1	3417	OHX	1	0
87	C5	201	OHX	3	0
87	5	3704	OHX	1	0
87	5	3551	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	6	2079	OHX	1	0
87	8	211	OHX	1	0
87	2	2087	OHX	1	0
87	1	3464	OHX	1	0
87	1	3703	OHX	1	0
87	5	3451	OHX	1	0
87	1	3695	OHX	1	0
87	6	1929	OHX	1	0
87	5	3502	OHX	1	0
87	2	1956	OHX	1	0
87	2	1901	OHX	1	0
87	2	1917	OHX	1	0
87	1	3727	OHX	1	0
87	5	3635	OHX	2	0
87	1	3683	OHX	1	0
87	2	1937	OHX	1	0
87	1	3430	OHX	1	0
87	5	3684	OHX	4	0
87	5	3622	OHX	1	0
87	6	2077	OHX	1	0
87	1	3456	OHX	1	0
87	5	3455	OHX	1	0
87	m1	201	OHX	1	0
87	1	3714	OHX	1	0
87	5	3655	OHX	2	0
87	1	3754	OHX	2	0
87	O1	201	OHX	1	0
87	5	3461	OHX	2	0
87	2	1995	OHX	1	0
87	2	1926	OHX	1	0
87	1	3459	OHX	2	0
87	1	3661	OHX	1	0
87	8	212	OHX	3	0
87	2	2064	OHX	3	0
87	N9	101	OHX	1	0
87	4	205	OHX	1	0
87	1	3686	OHX	1	0
87	5	3537	OHX	1	0
87	1	3410	OHX	1	0
87	1	3621	OHX	1	0
87	2	2034	OHX	1	0
87	5	3701	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	3436	OHX	1	0
87	5	3558	OHX	1	0
87	5	3726	OHX	1	0
87	1	3591	OHX	1	0
87	6	2092	OHX	1	0
87	6	1968	OHX	1	0
87	2	1950	OHX	1	0
87	C8	202	OHX	1	0
87	6	1992	OHX	1	0
87	1	3694	OHX	1	0
87	M0	304	OHX	6	0
87	5	3519	OHX	1	0
87	1	3662	OHX	2	0
87	1	3630	OHX	1	0
87	1	3442	OHX	1	0
87	5	3663	OHX	1	0
87	1	3603	OHX	1	0
87	5	3594	OHX	1	0
87	6	1961	OHX	1	0
87	1	3707	OHX	1	0
87	1	3478	OHX	1	0
87	1	3623	OHX	1	0
87	1	3537	OHX	3	0
87	5	3619	OHX	1	0
87	1	3472	OHX	1	0
87	1	3698	OHX	1	0
87	5	3574	OHX	1	0
87	6	2015	OHX	2	0
87	1	3607	OHX	1	0
87	2	1973	OHX	1	0
87	5	3408	OHX	1	0
87	1	3775	OHX	1	0
87	14	401	OHX	3	0
87	1	3524	OHX	1	0
87	6	2002	OHX	1	0
87	5	3487	OHX	1	0
87	5	3732	OHX	1	0
87	5	3533	OHX	1	0
87	1	3774	OHX	1	0
87	1	3616	OHX	1	0
87	3	206	OHX	1	0
87	1	3514	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	3809	OHX	1	0
87	5	3615	OHX	1	0
87	2	2042	OHX	1	0
87	2	1952	OHX	1	0
87	5	3777	OHX	1	0
87	2	2057	OHX	1	0
87	1	3777	OHX	2	0
87	5	3782	OHX	1	0
87	1	3598	OHX	2	0
87	5	3567	OHX	1	0
87	1	3562	OHX	2	0
87	1	3691	OHX	4	0
87	2	1990	OHX	3	0
87	1	3753	OHX	2	0
87	1	3572	OHX	1	0
87	5	3649	OHX	2	0
87	1	3749	OHX	2	0
87	6	2082	OHX	2	0
87	4	210	OHX	1	0
87	1	3586	OHX	2	0
87	2	1943	OHX	1	0
87	3	212	OHX	1	0
87	1	3549	OHX	1	0
87	5	3425	OHX	2	0
87	6	1938	OHX	1	0
87	6	2032	OHX	1	0
87	1	3628	OHX	1	0
87	1	3544	OHX	1	0
87	l3	401	OHX	2	0
87	1	3420	OHX	2	0
87	1	3406	OHX	1	0
87	1	3539	OHX	2	0
87	2	1976	OHX	1	0
87	2	1977	OHX	3	0
87	5	3413	OHX	1	0
87	1	3733	OHX	11	0
87	1	3783	OHX	2	0
87	s8	301	OHX	1	0
87	5	3803	OHX	1	0
87	6	1997	OHX	2	0
87	1	3810	OHX	3	0
87	5	3486	OHX	1	0

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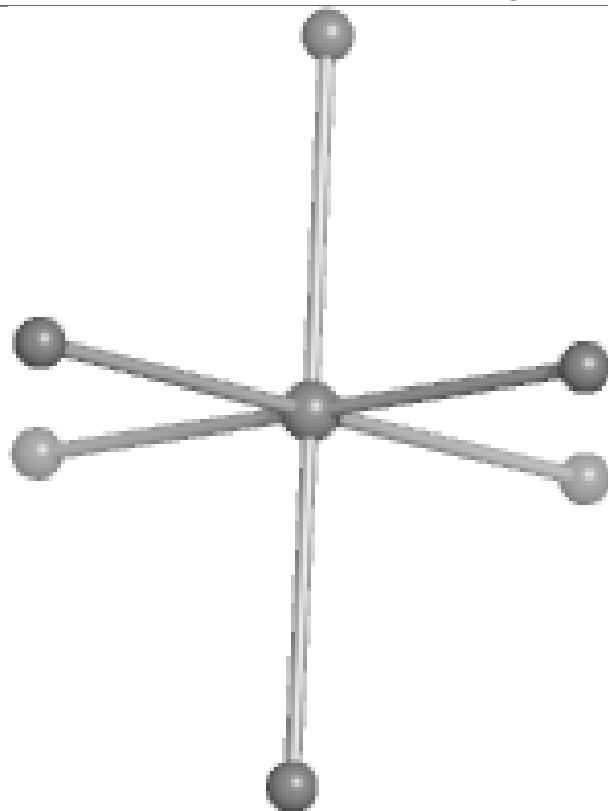
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
87	1	3726	OHX	3	0
87	6	2005	OHX	3	0
87	1	3480	OHX	2	0
87	1	3415	OHX	1	0
87	2	2051	OHX	1	0
87	5	3520	OHX	1	0
87	1	3771	OHX	1	0
87	1	3475	OHX	1	0
87	1	3772	OHX	4	0
87	5	3676	OHX	1	0
87	5	3491	OHX	1	0
87	6	1921	OHX	3	0
87	1	3433	OHX	5	0
87	6	1985	OHX	1	0
87	6	2094	OHX	1	0
87	5	3439	OHX	1	0
87	2	2035	OHX	4	0
87	2	1941	OHX	1	0
87	5	3605	OHX	1	0
87	5	3426	OHX	1	0
87	2	2030	OHX	2	0
87	1	3512	OHX	2	0
87	1	3428	OHX	1	0
87	1	3541	OHX	2	0
87	1	3700	OHX	1	0
87	2	2063	OHX	1	0
87	1	3786	OHX	1	0
87	4	213	OHX	3	0
87	6	1975	OHX	1	0
87	6	2074	OHX	2	0
87	1	3806	OHX	5	0
87	8	206	OHX	1	0
87	1	3438	OHX	1	0

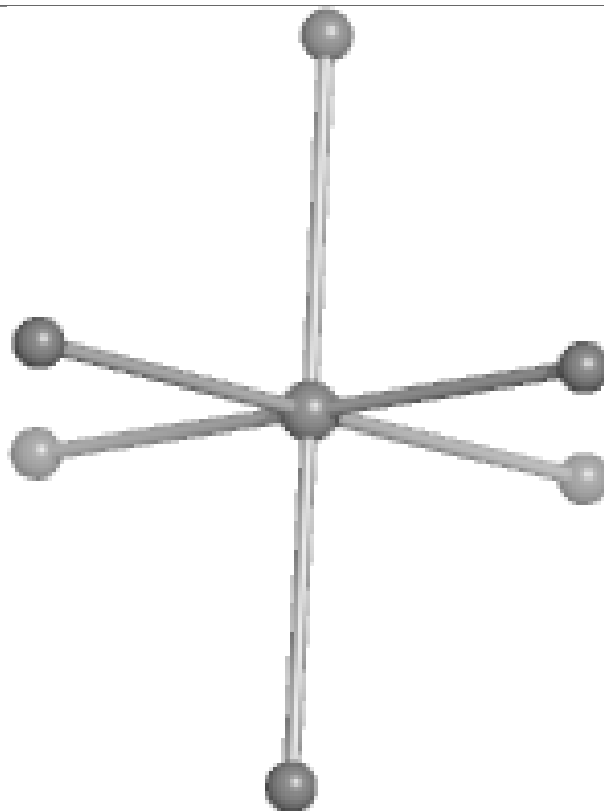
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

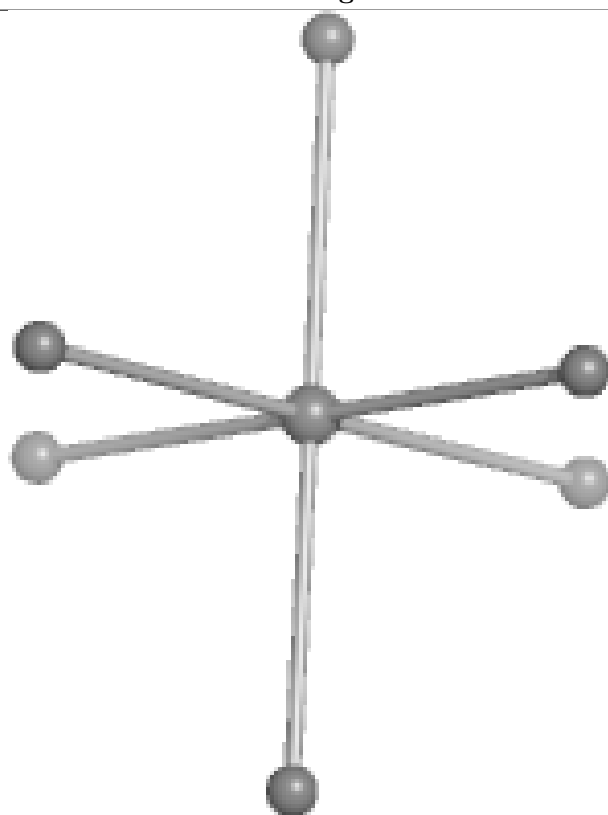
Ligand OHX 5 3691



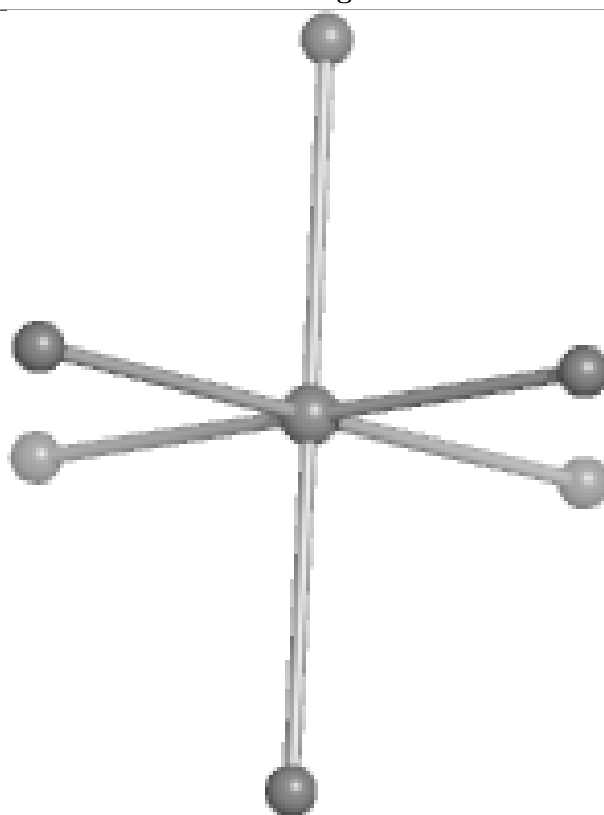
Bond lengths



Bond angles

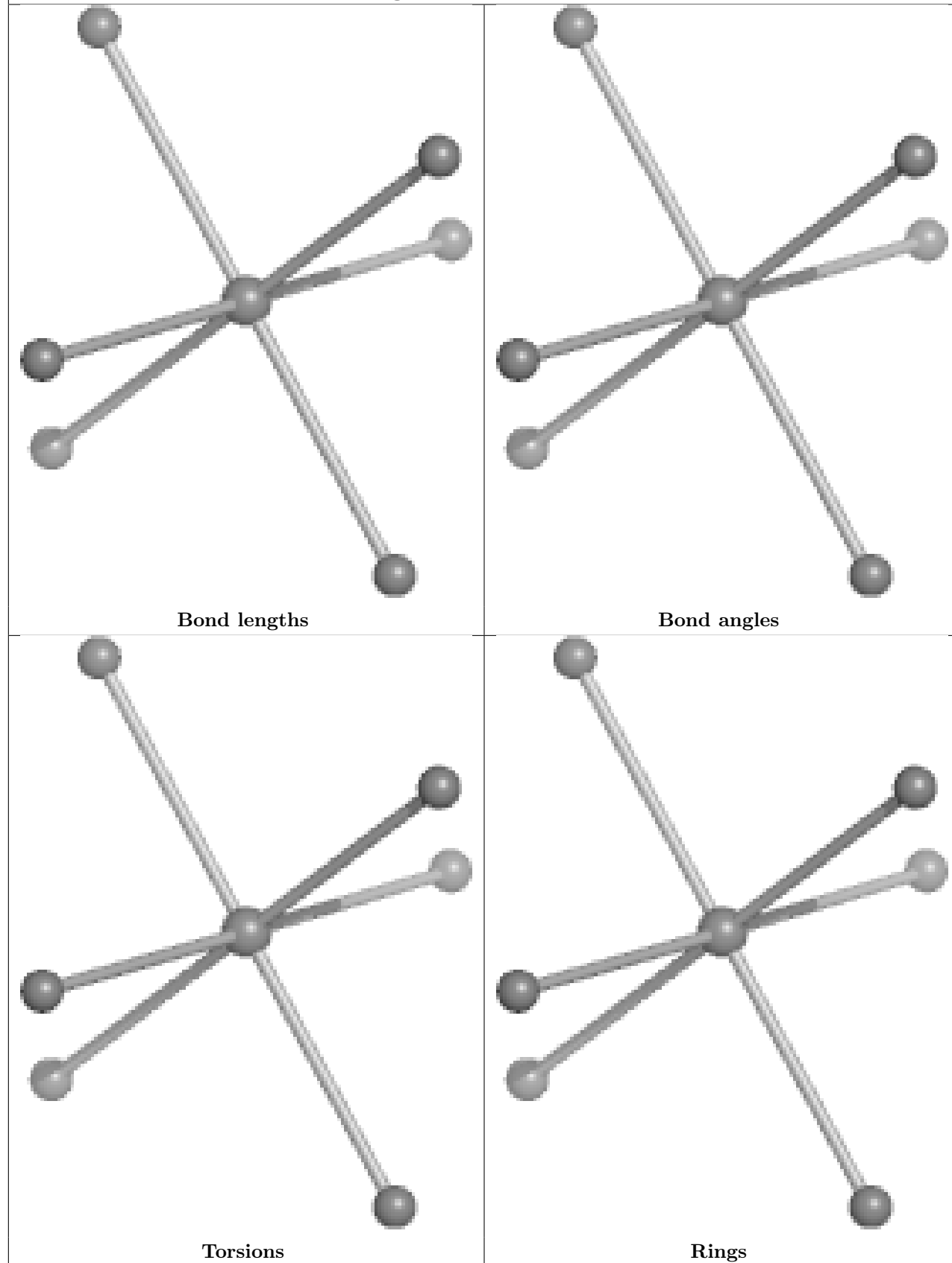


Torsions

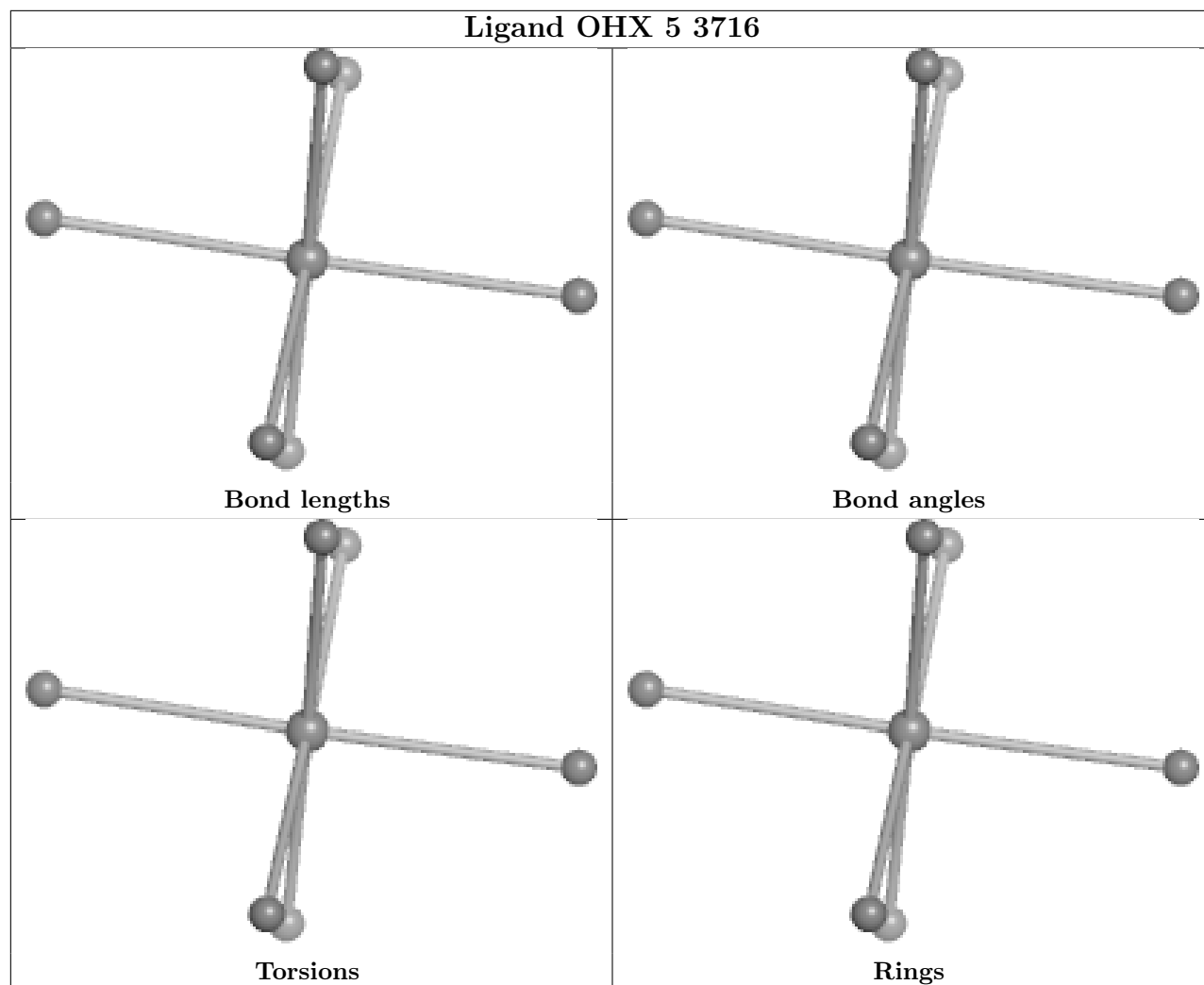


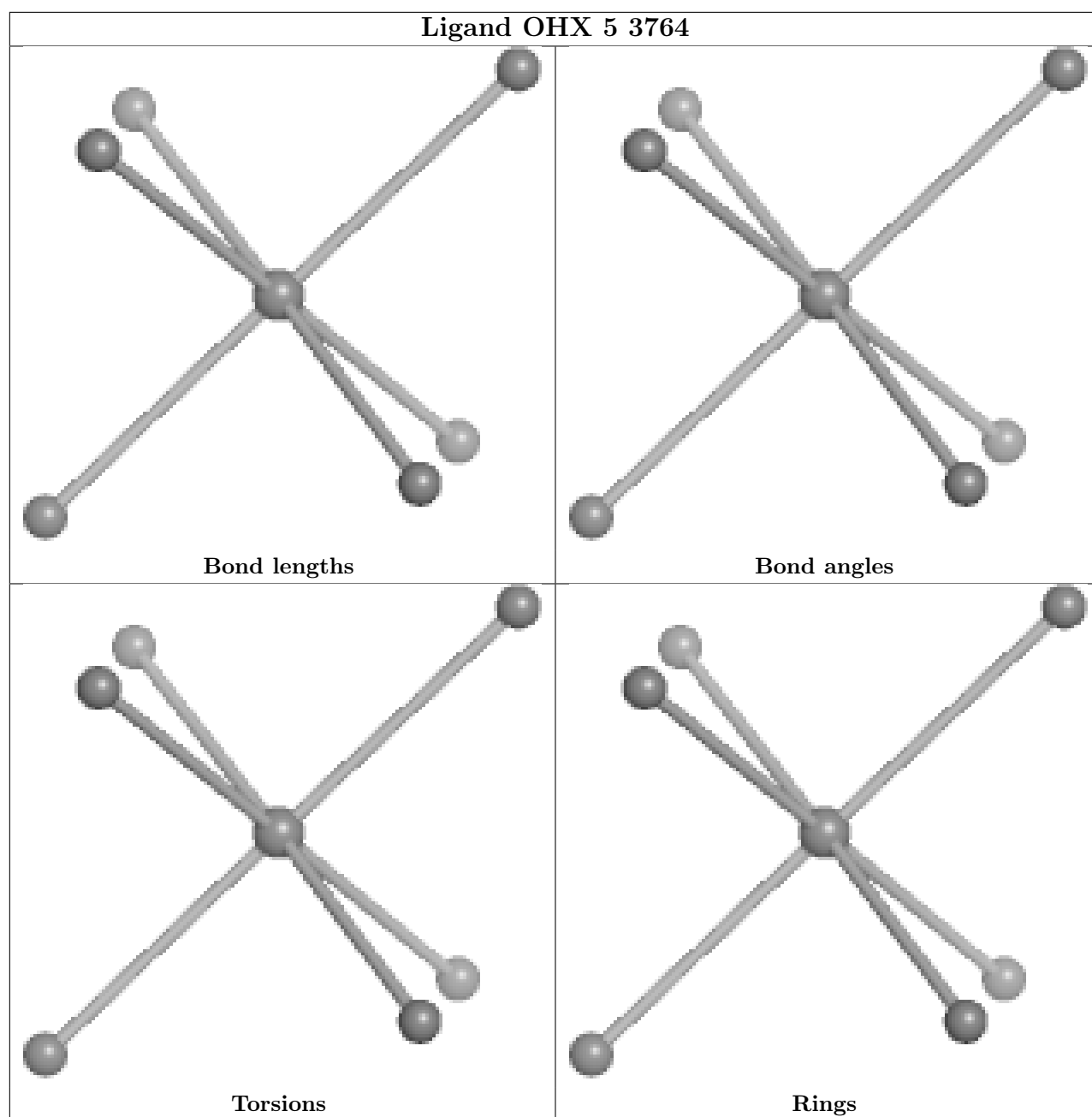
Rings

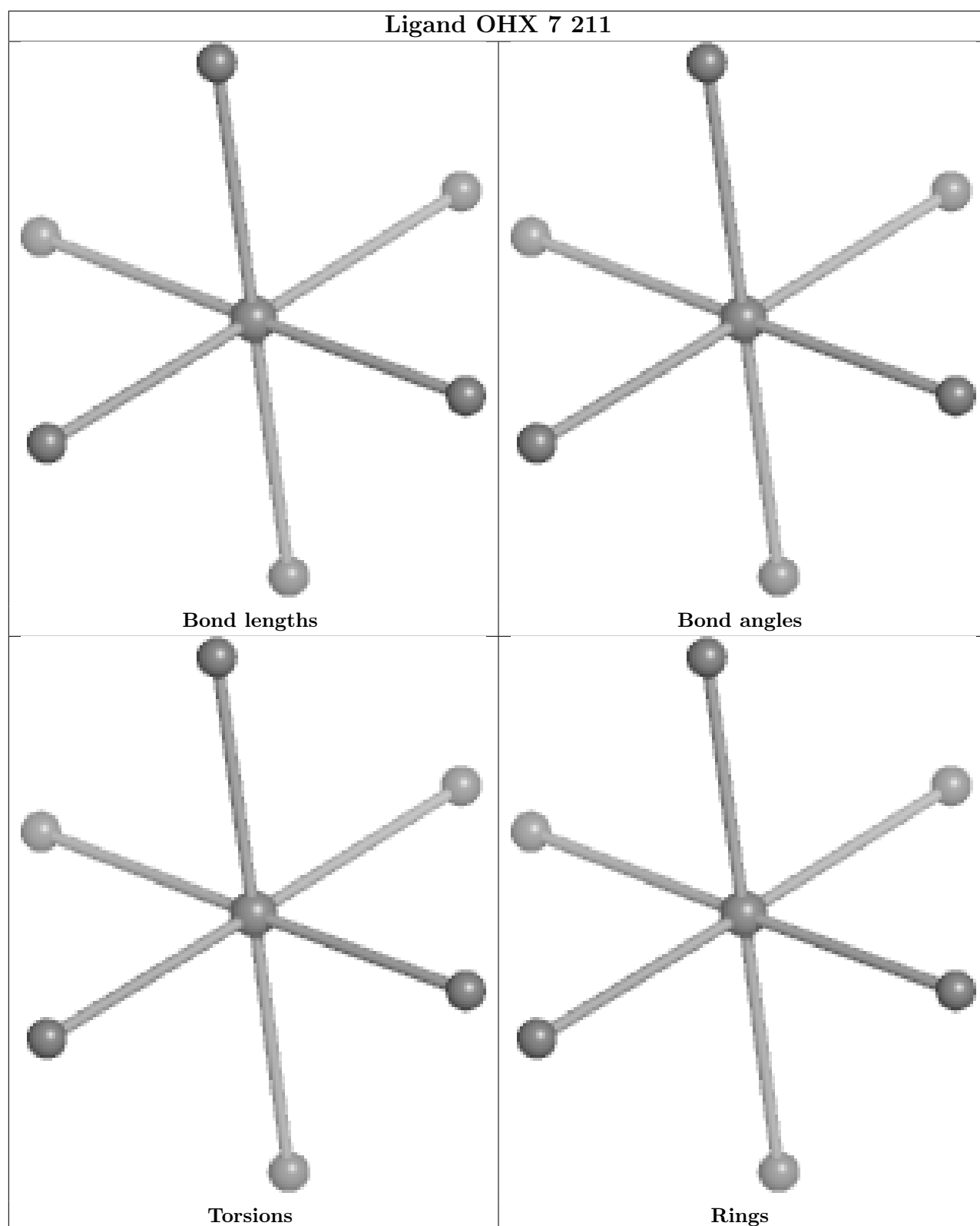
Ligand OHX 5 3632

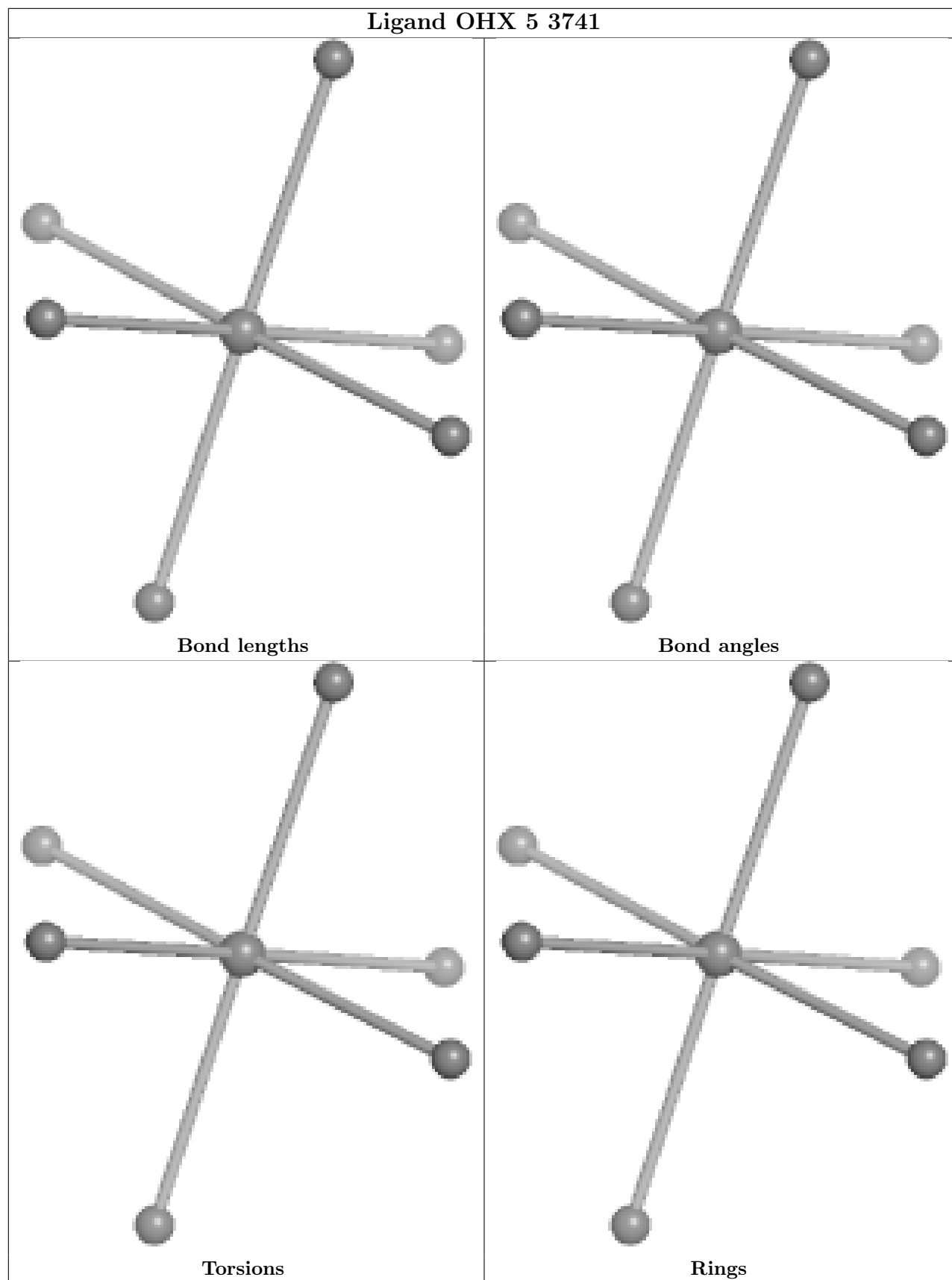


Ligand OHX 5 3716

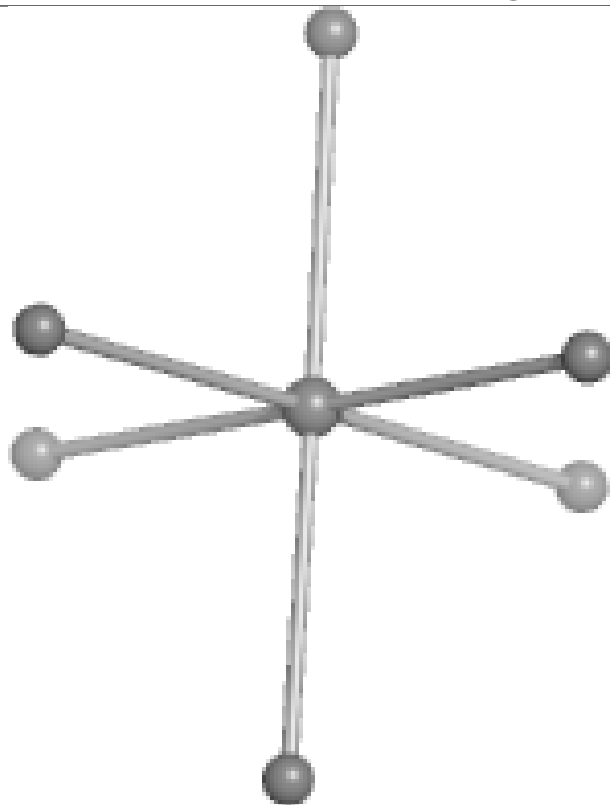




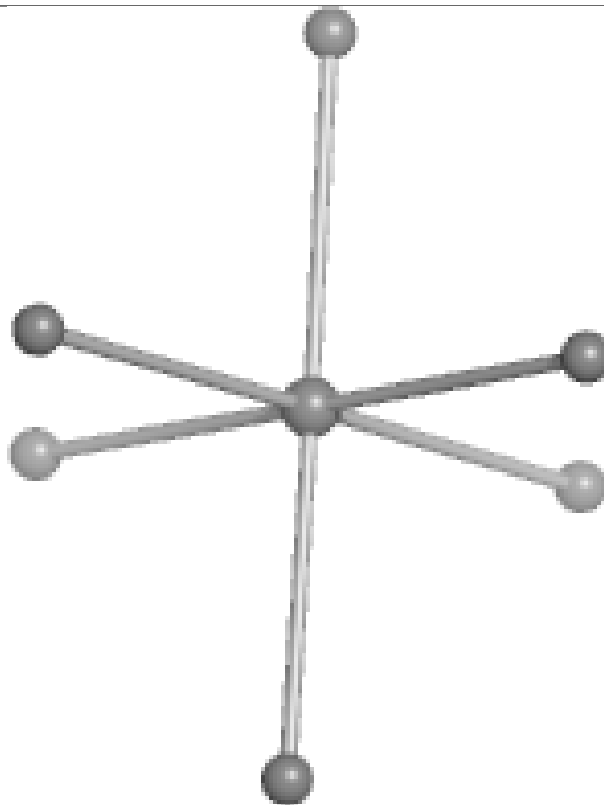




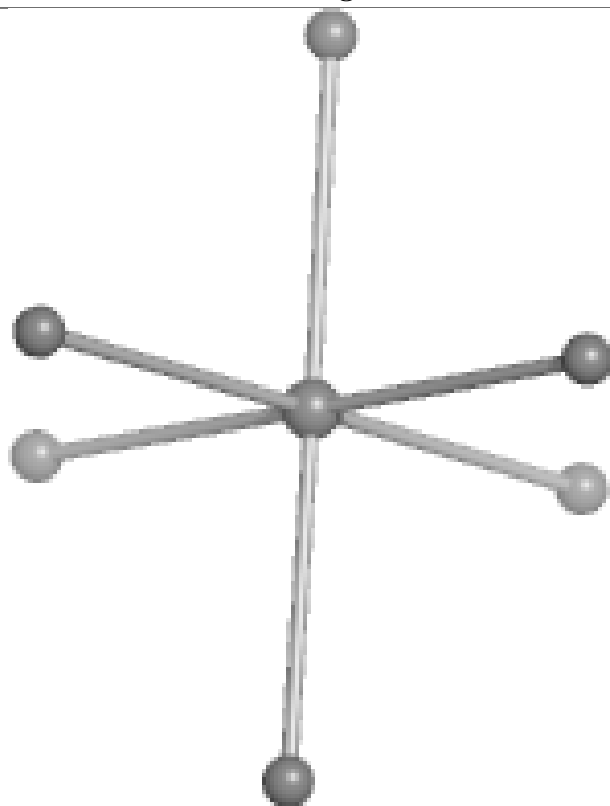
Ligand OHX 5 3708



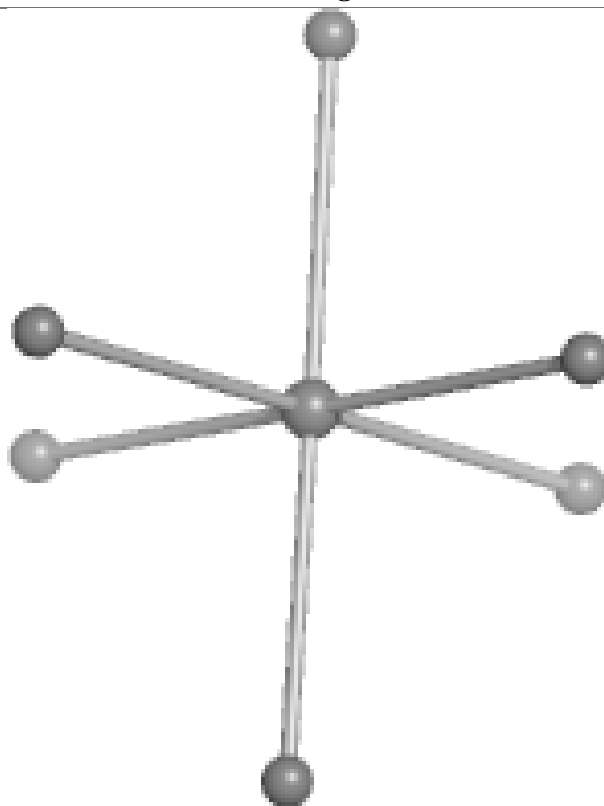
Bond lengths



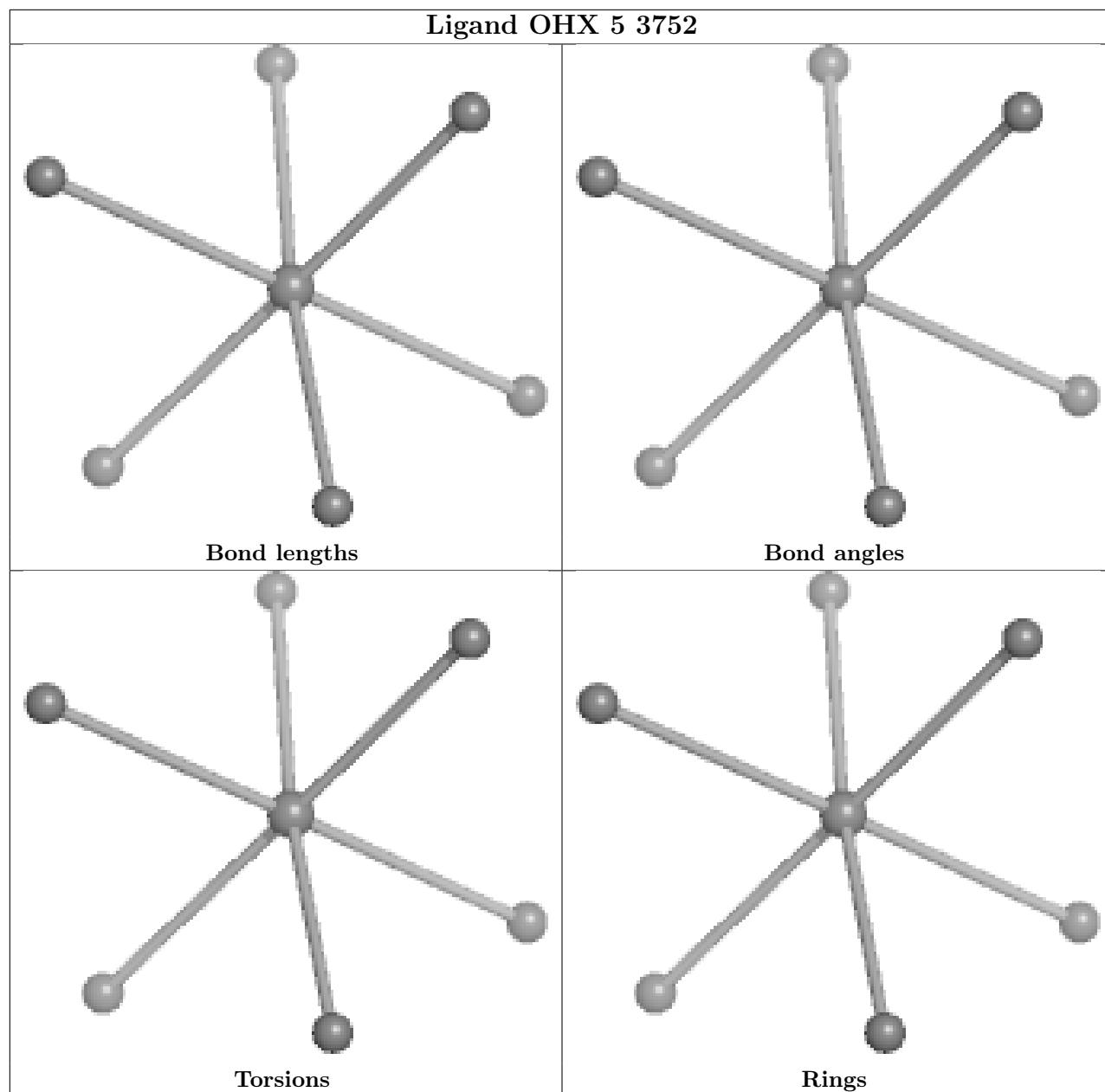
Bond angles

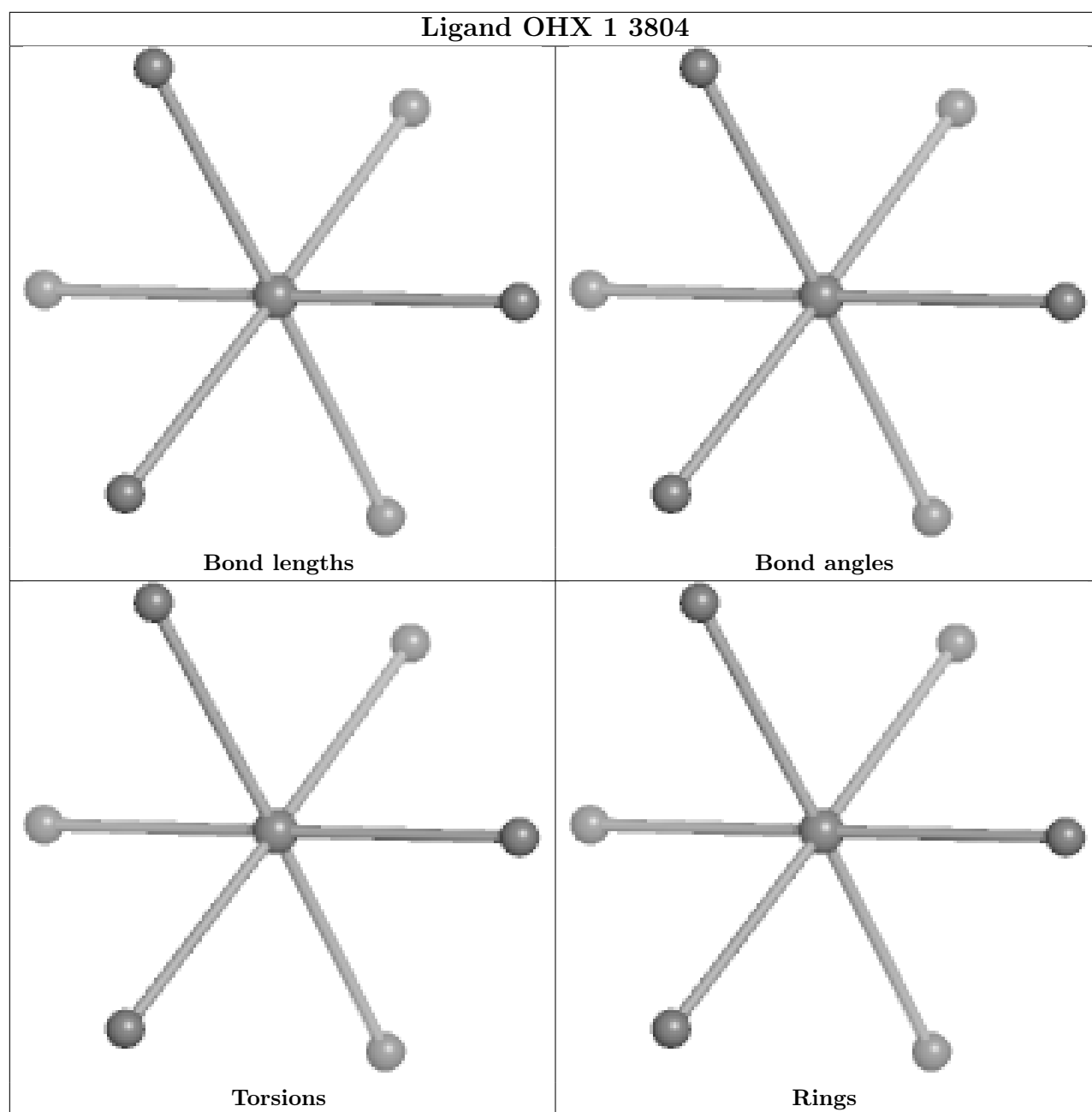


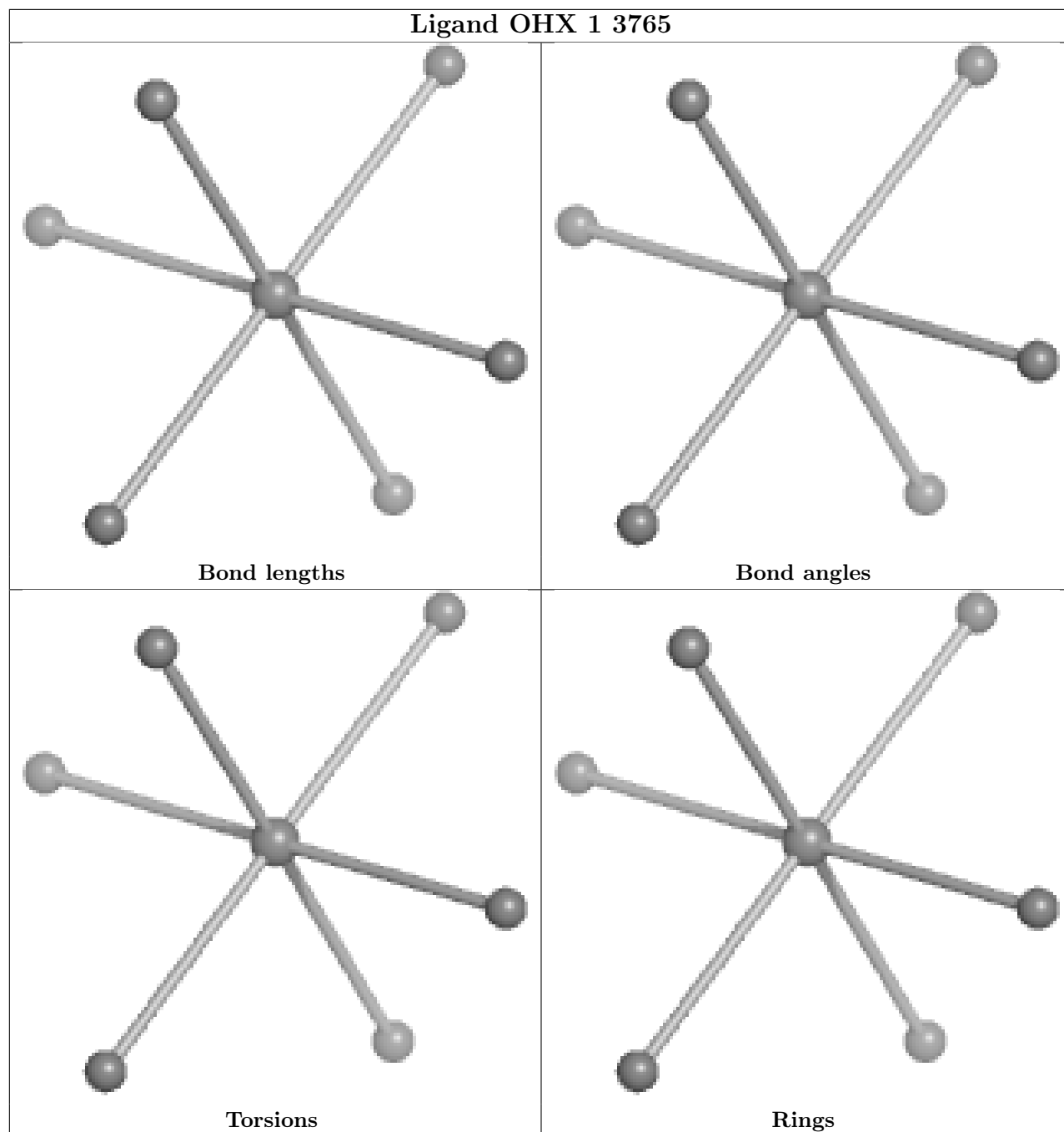
Torsions

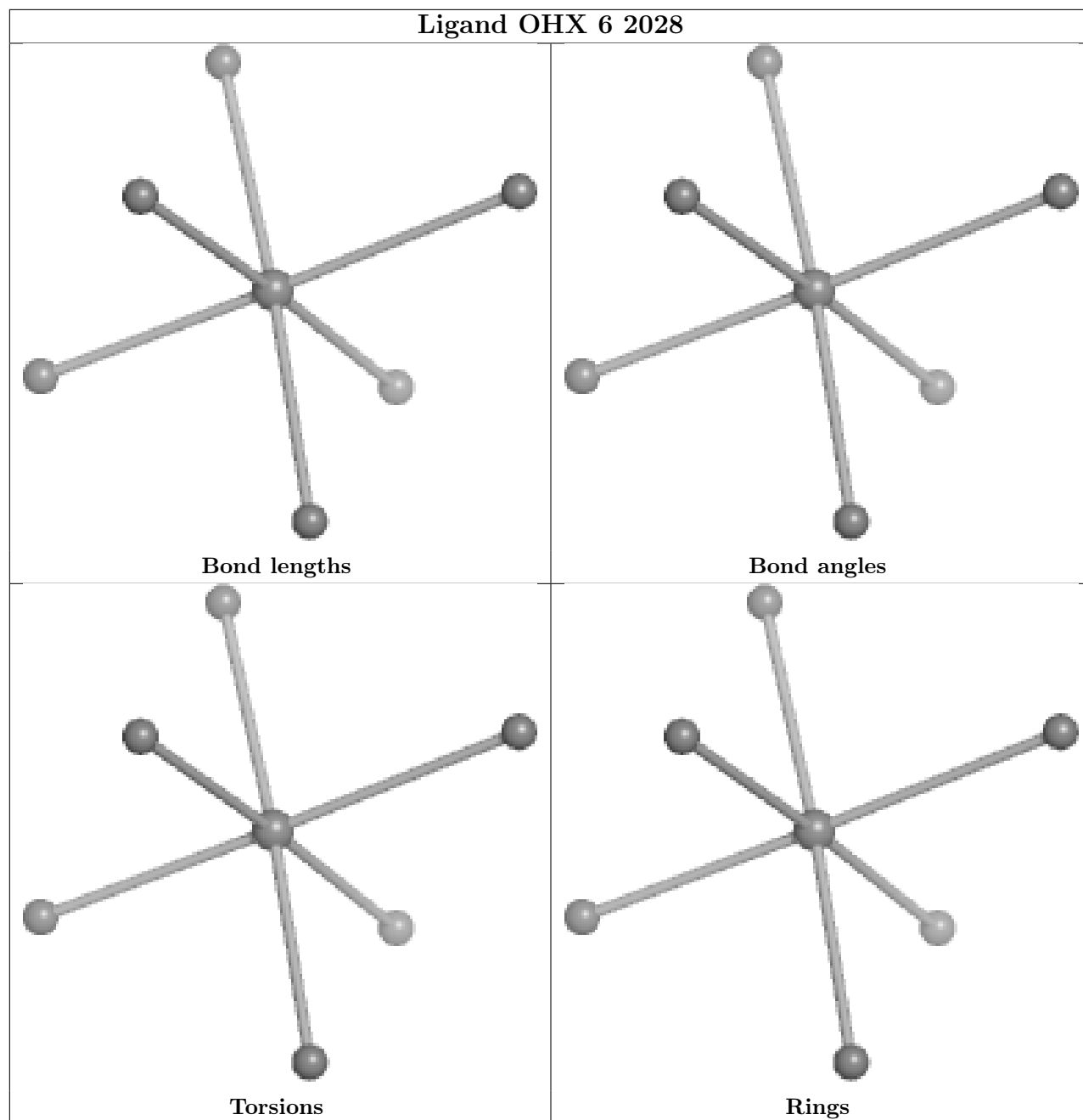


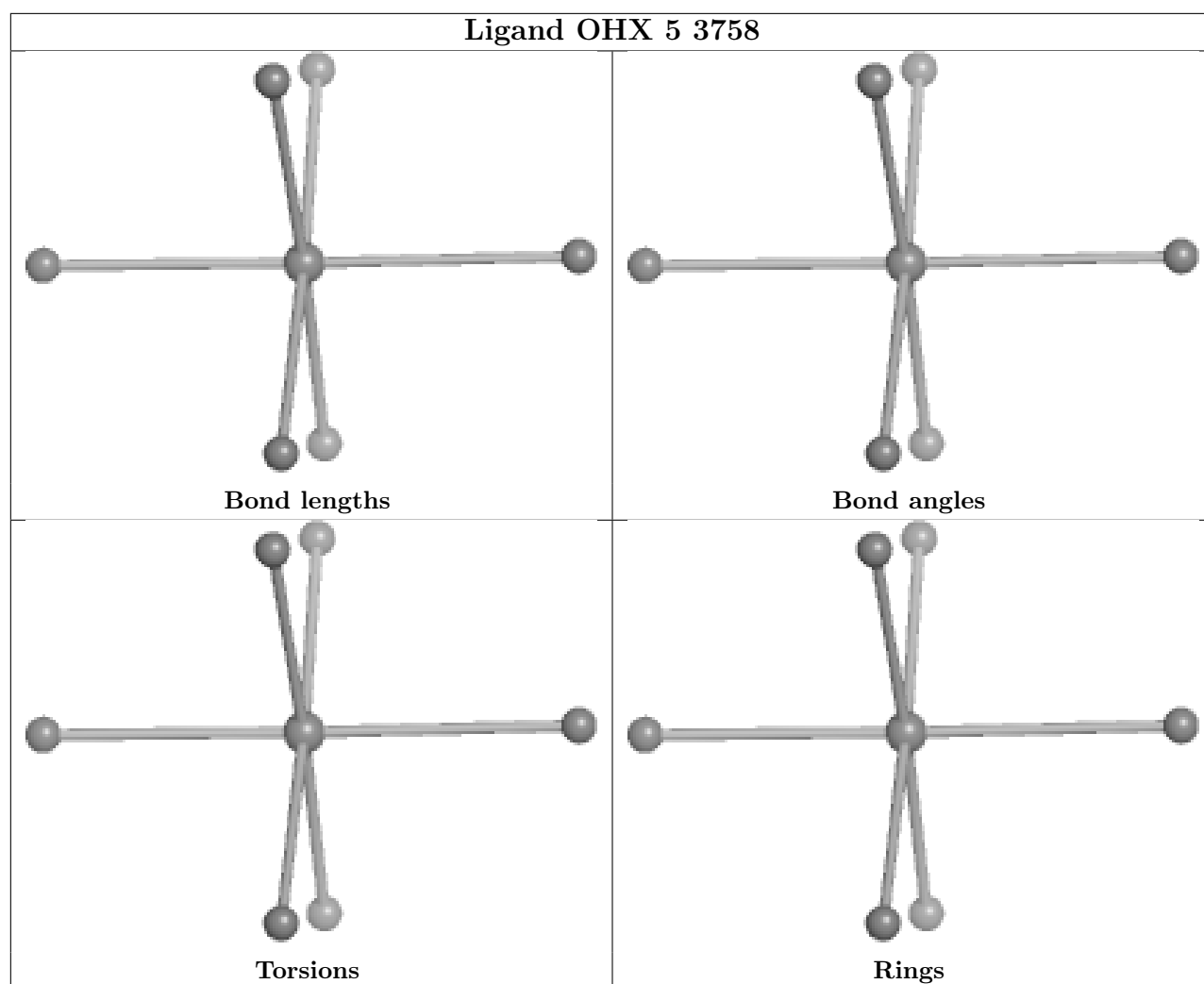
Rings

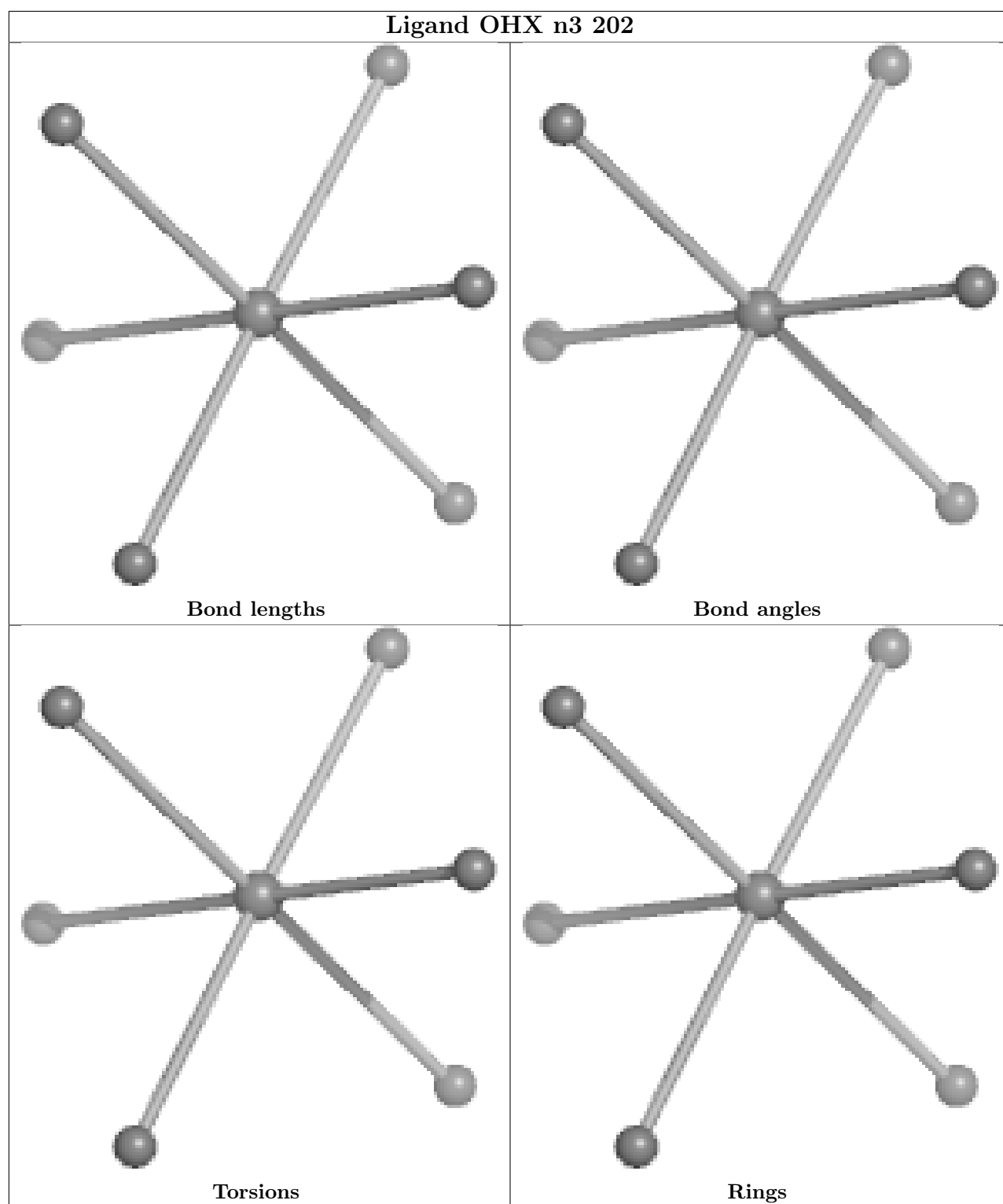


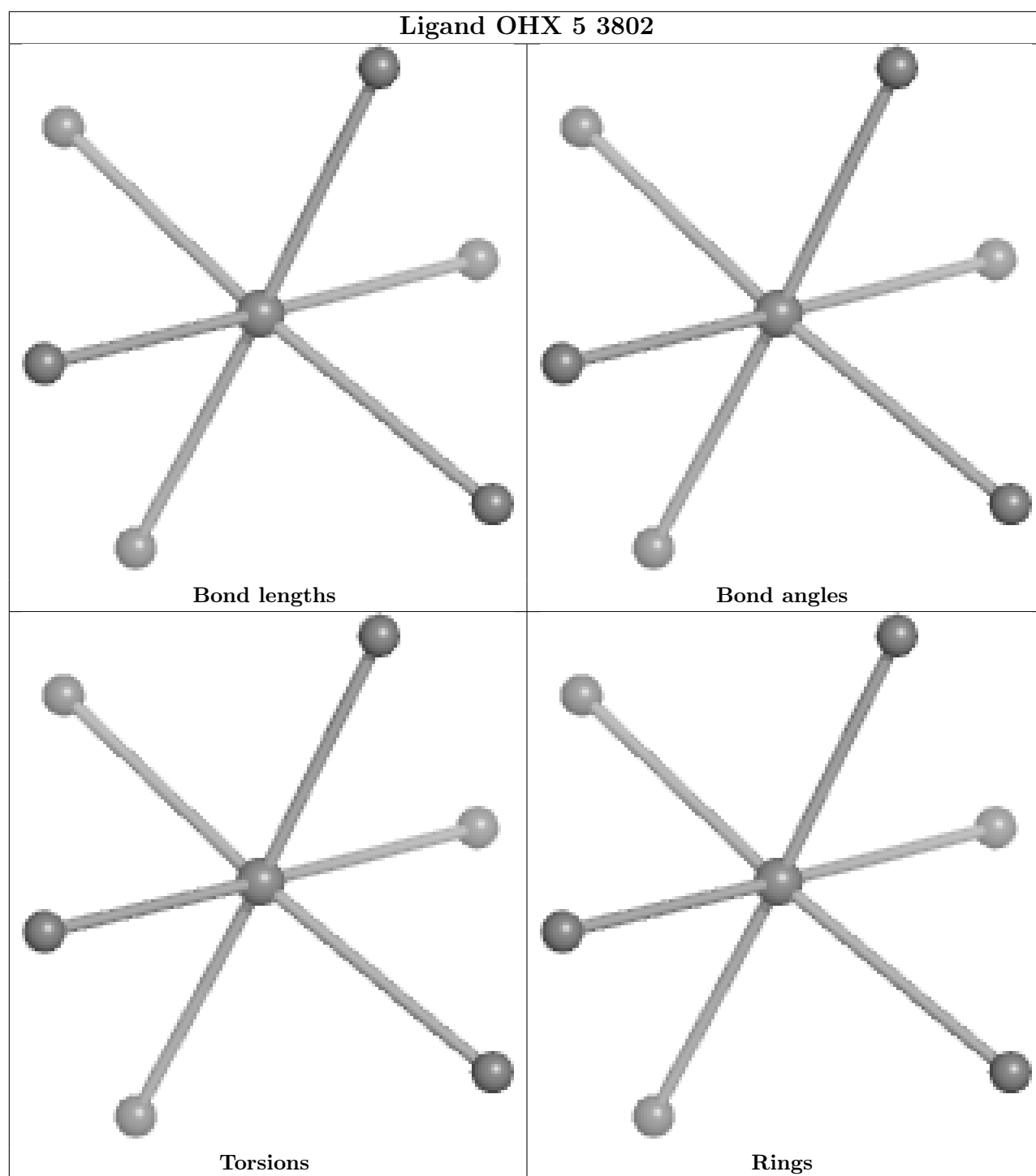


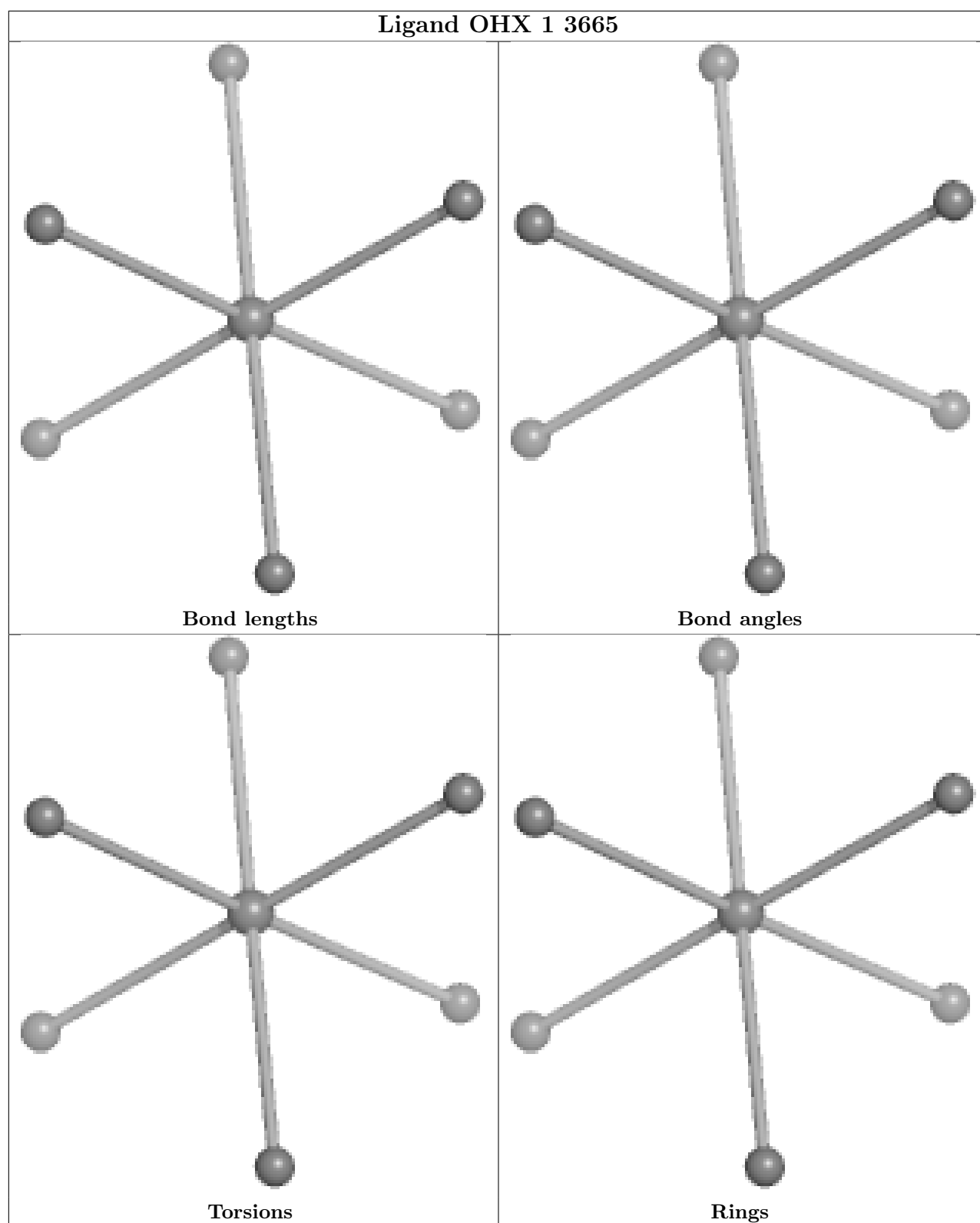




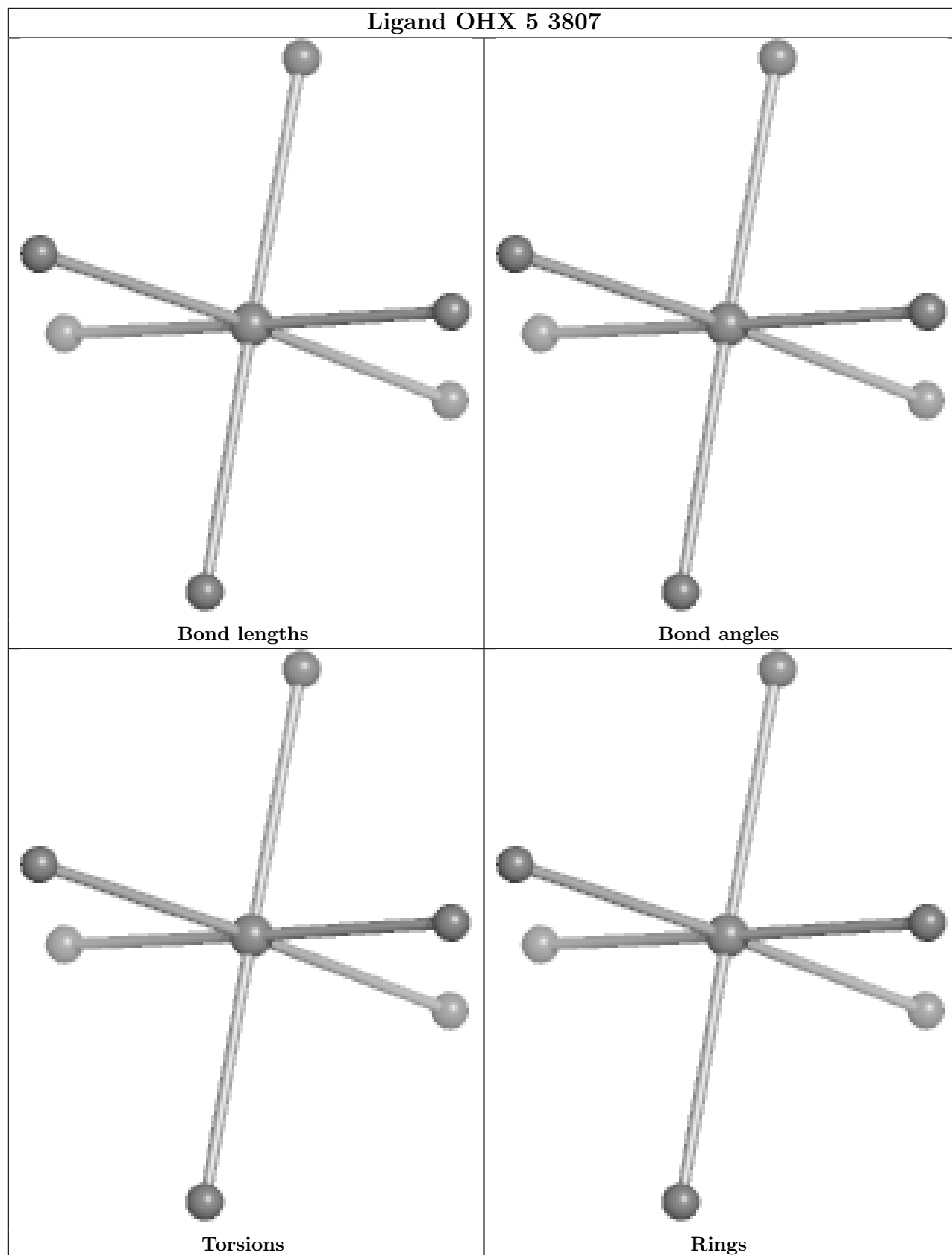


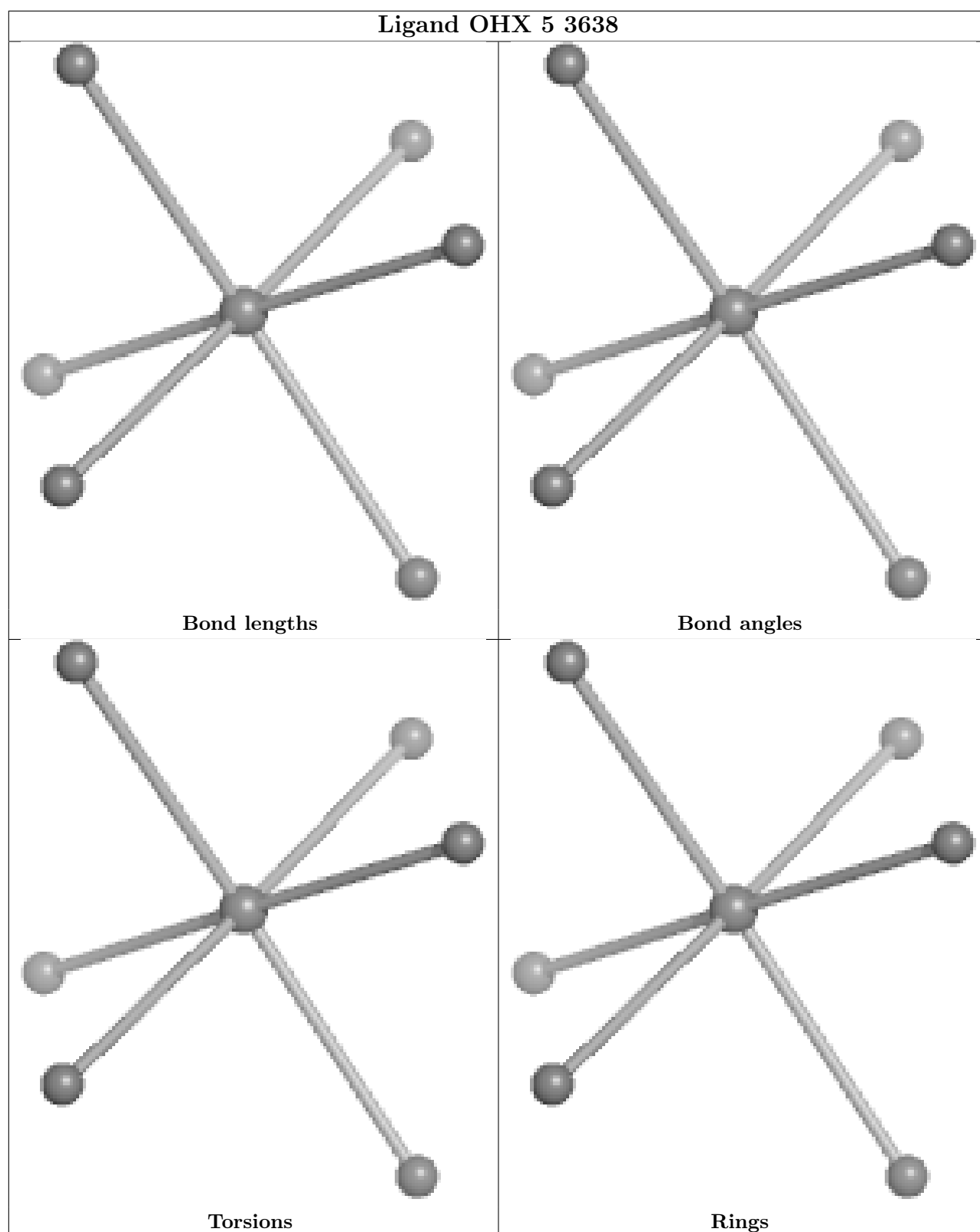




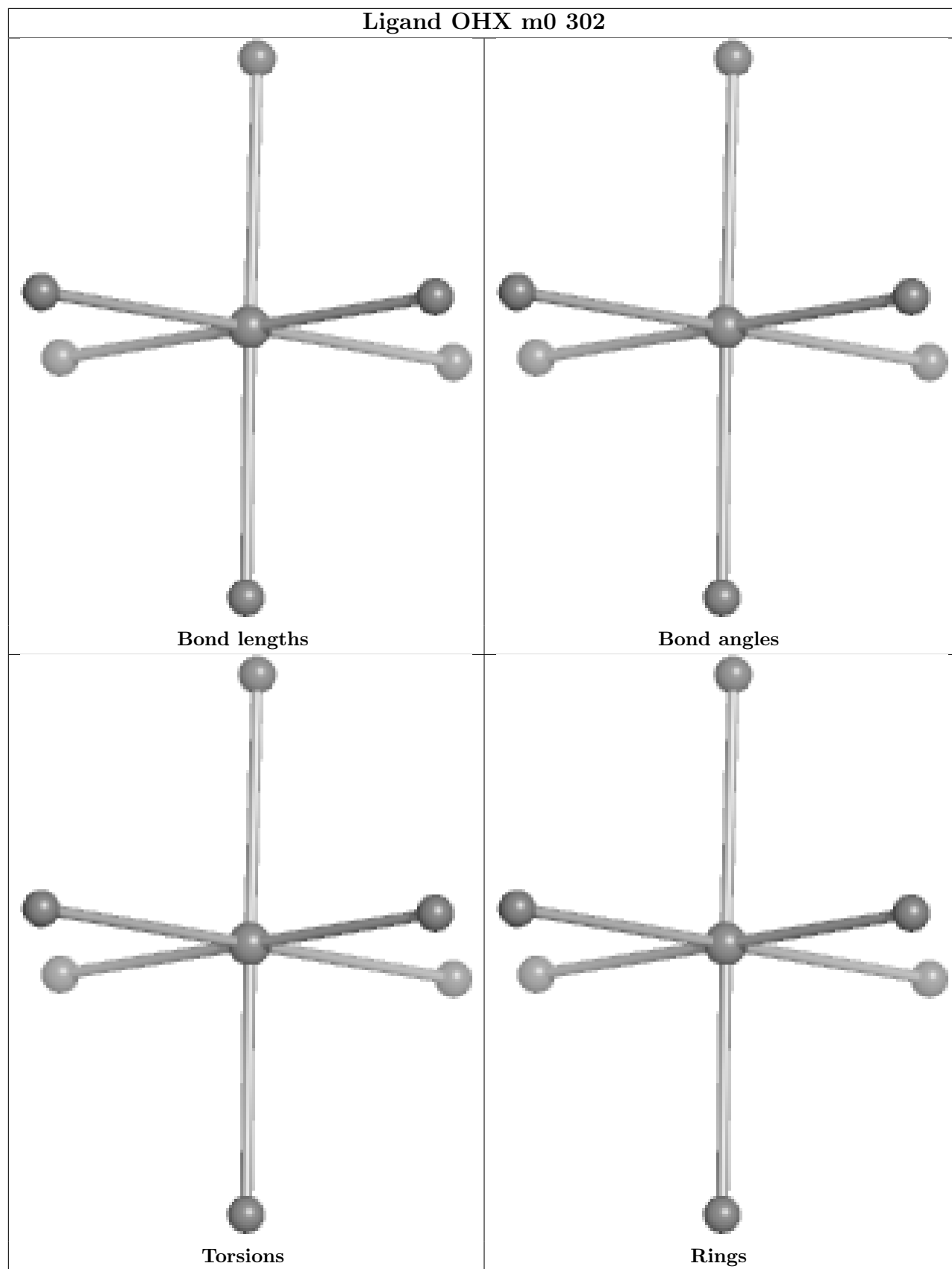


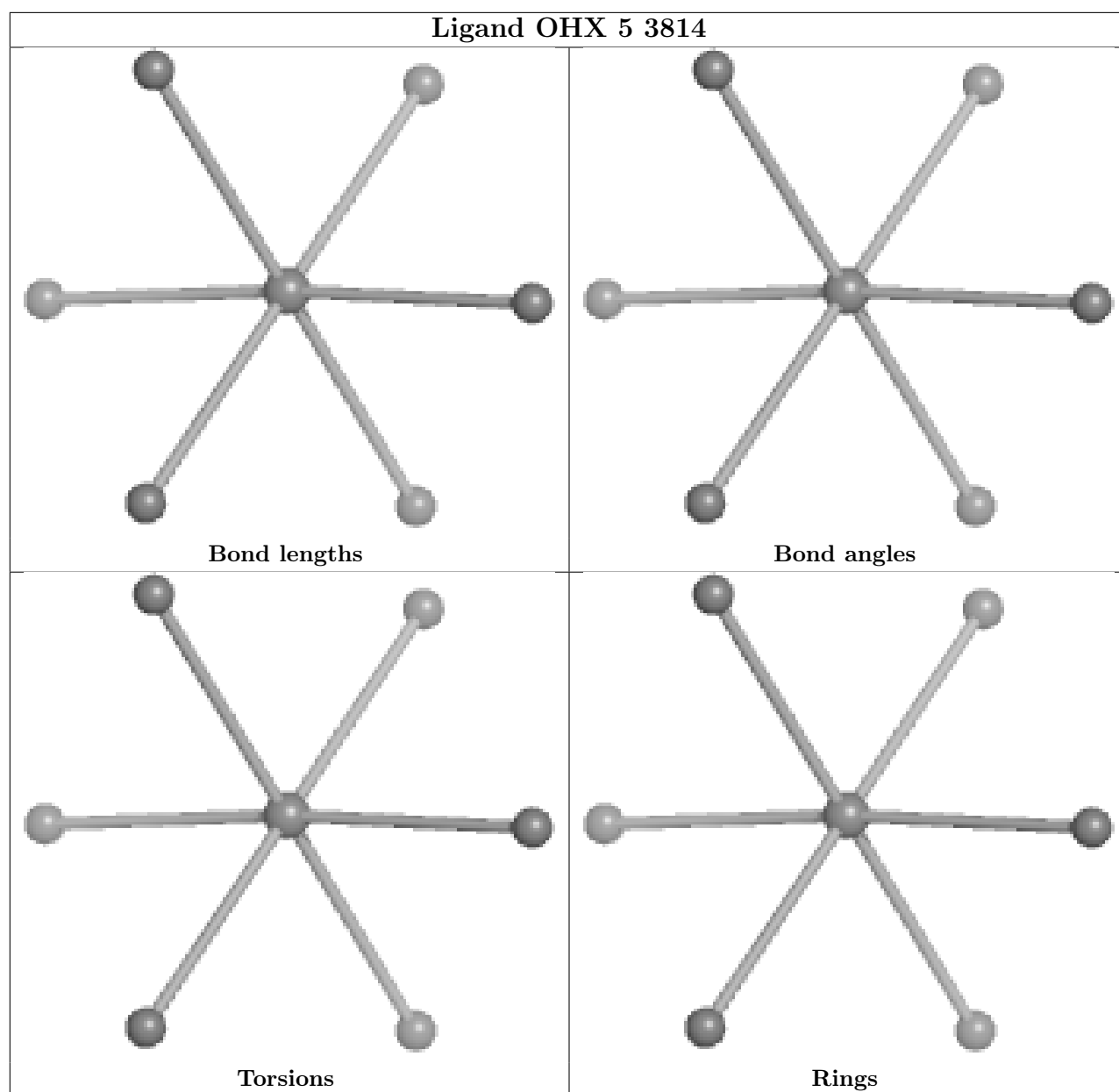
Ligand OHX 5 3807

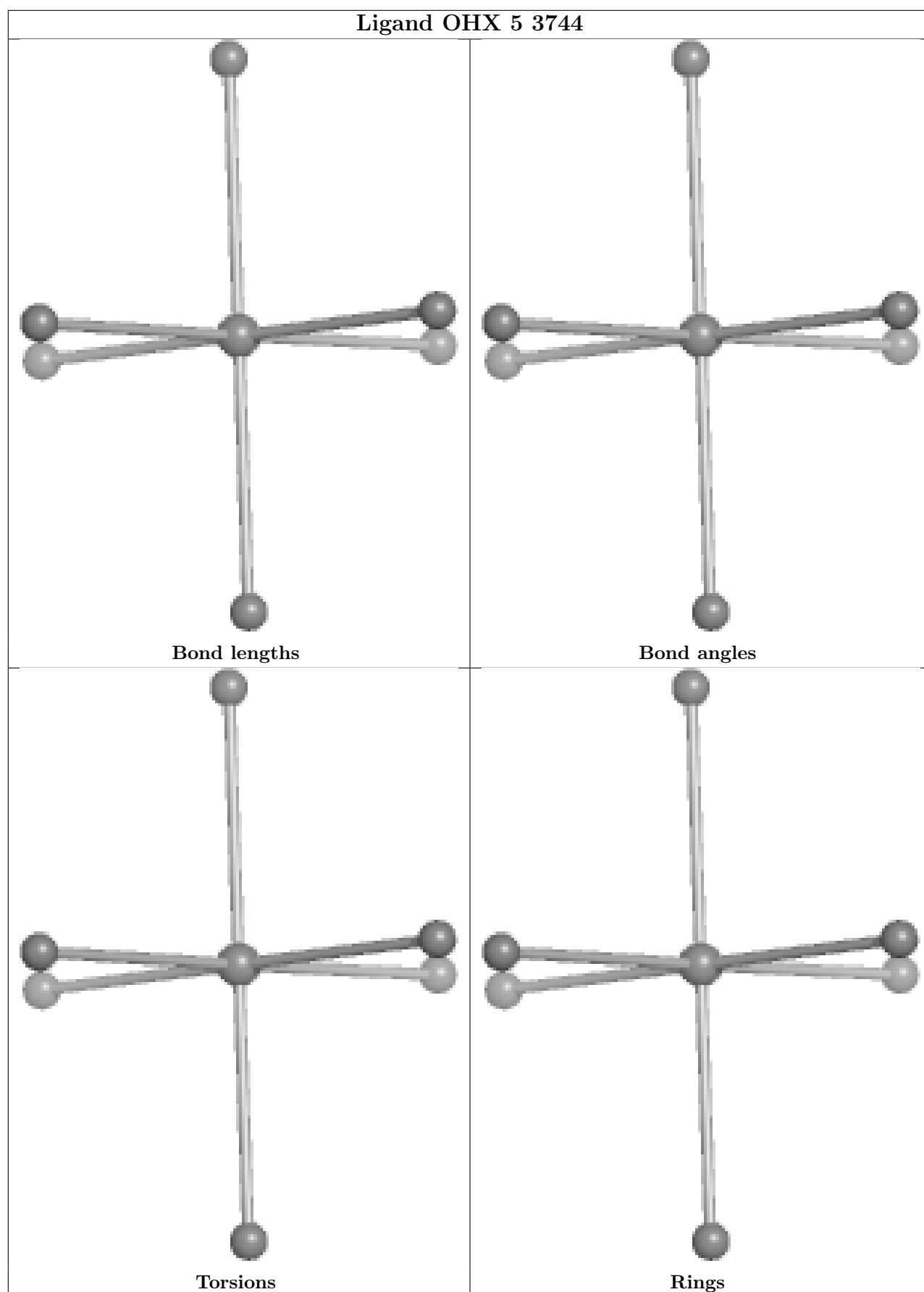


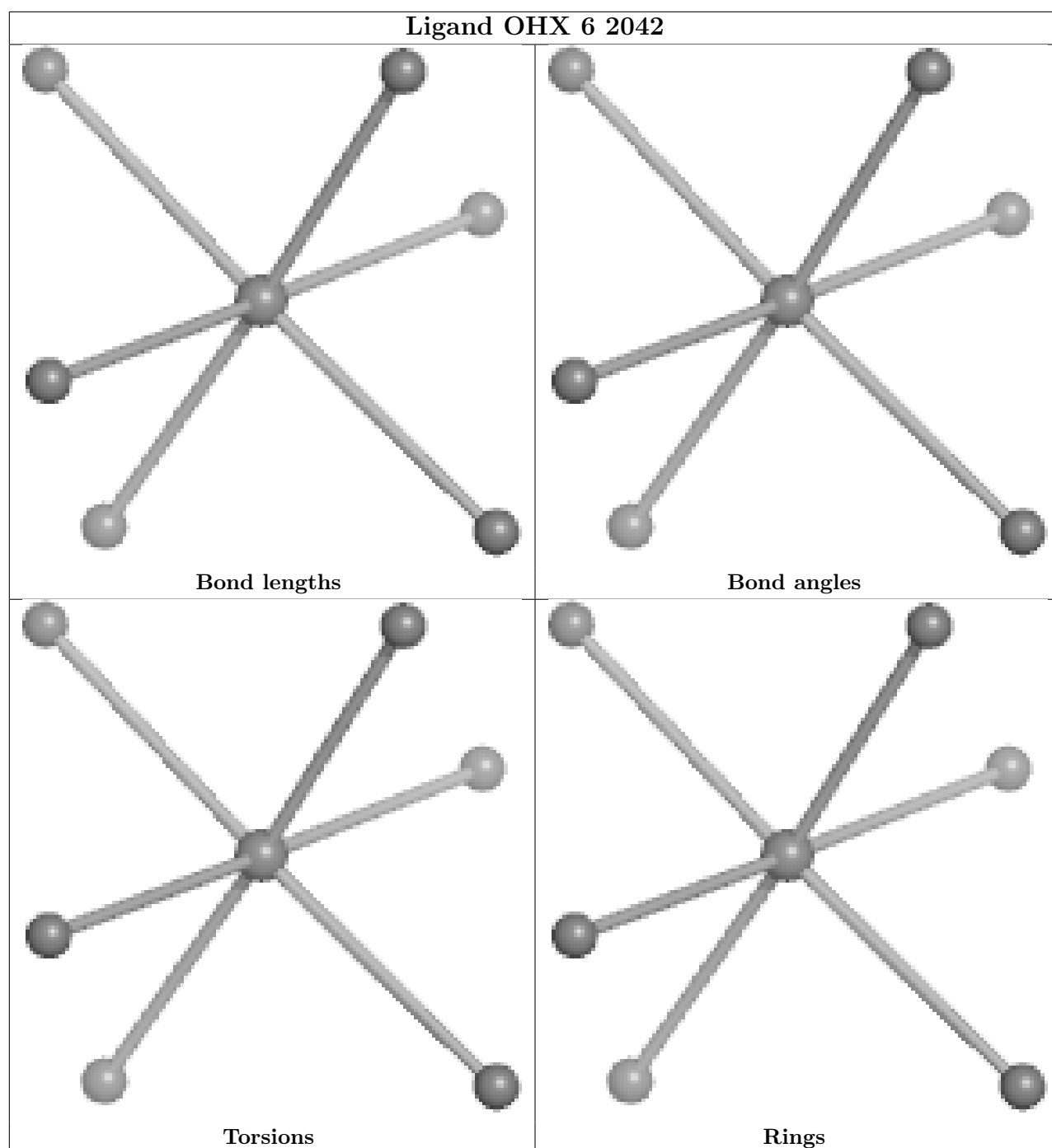


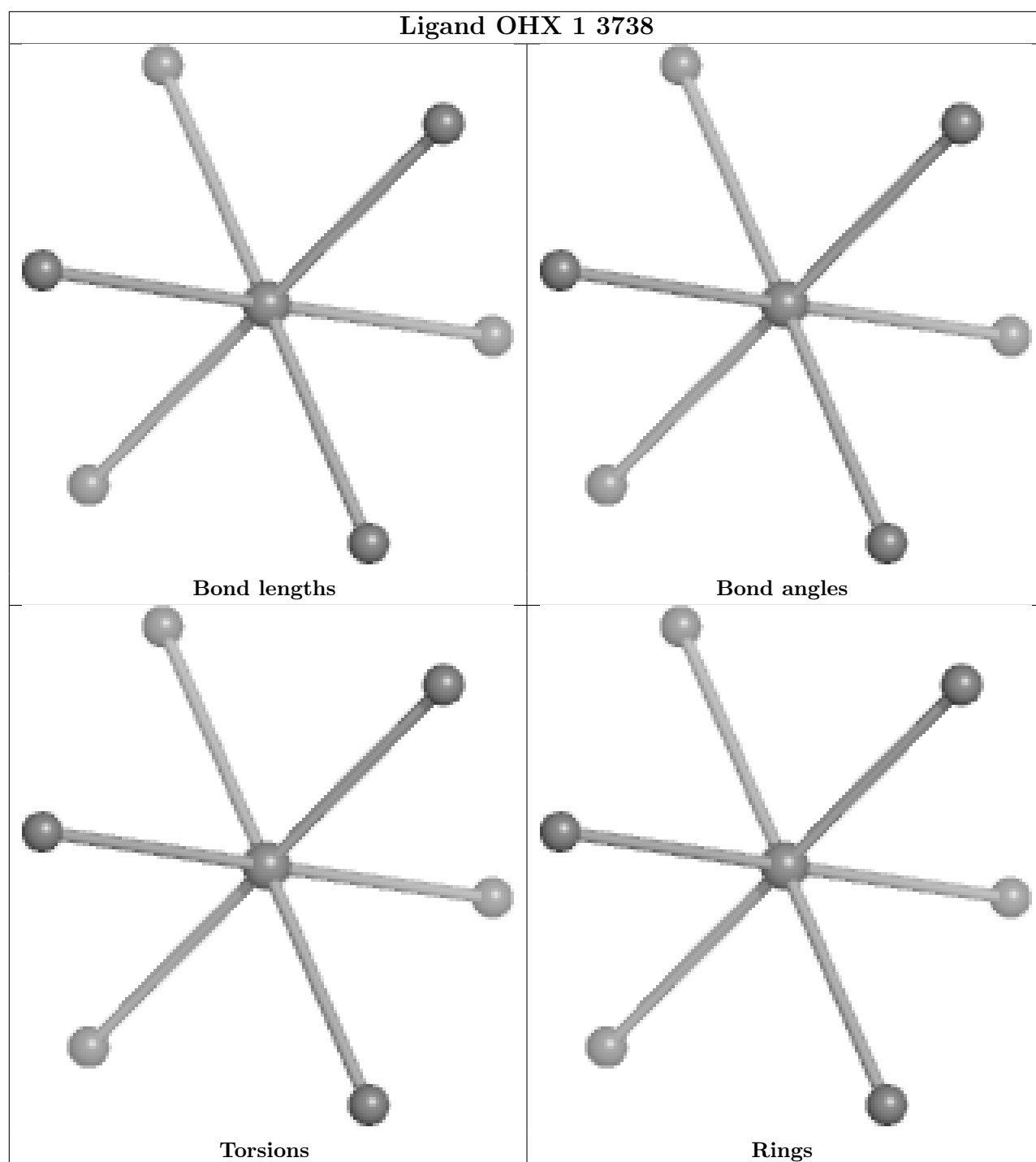
Ligand OHX m0 302

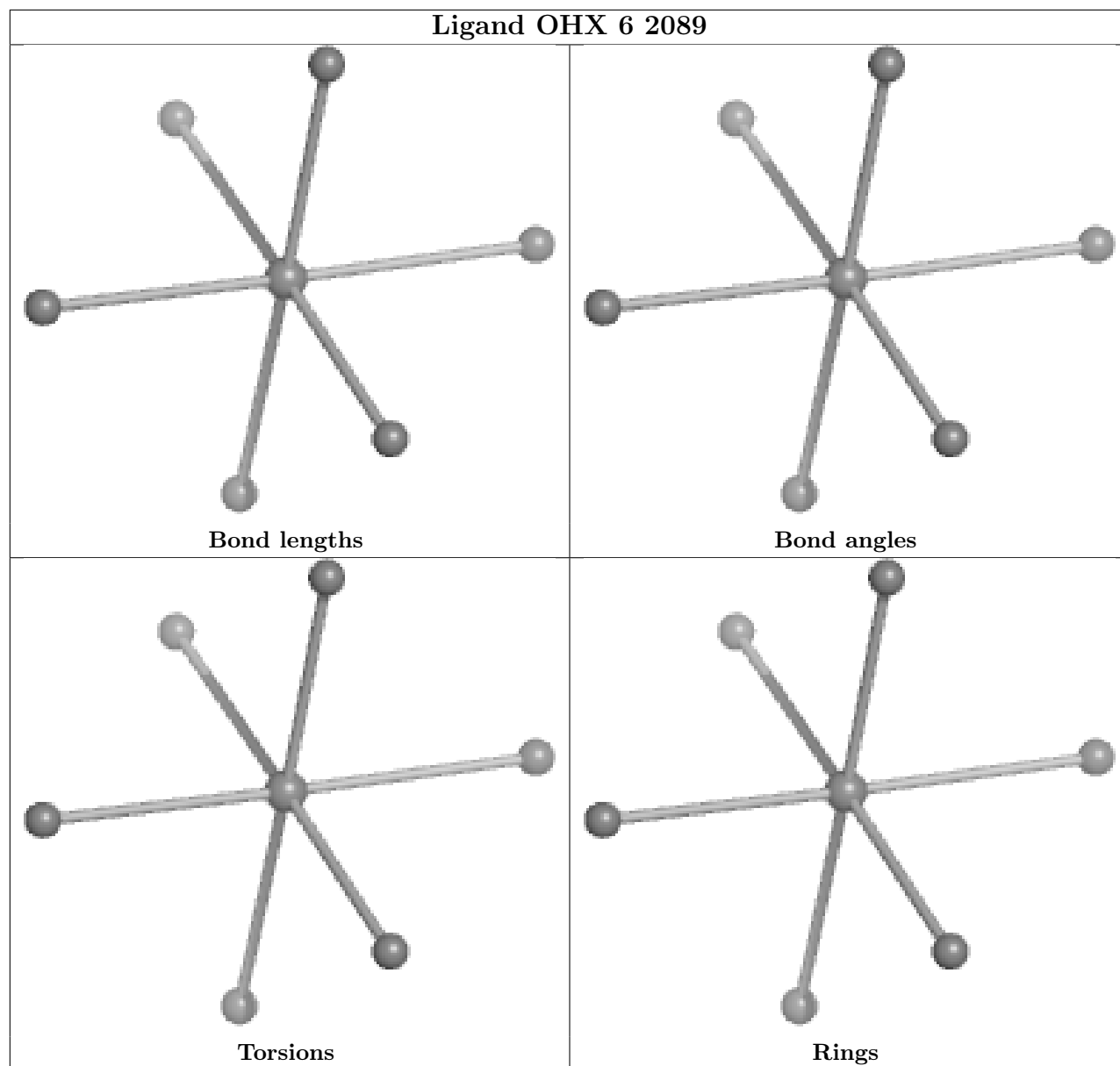


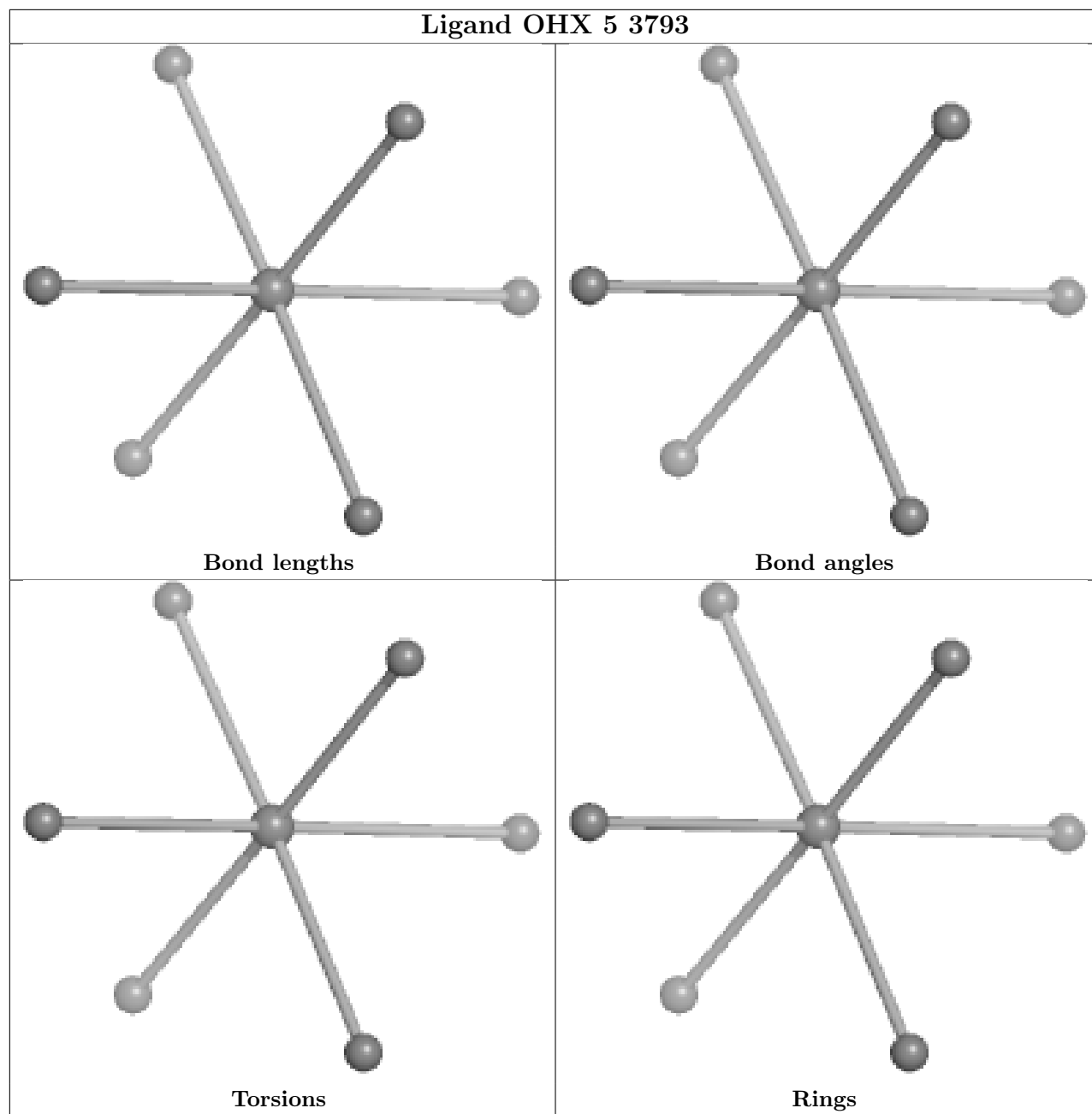




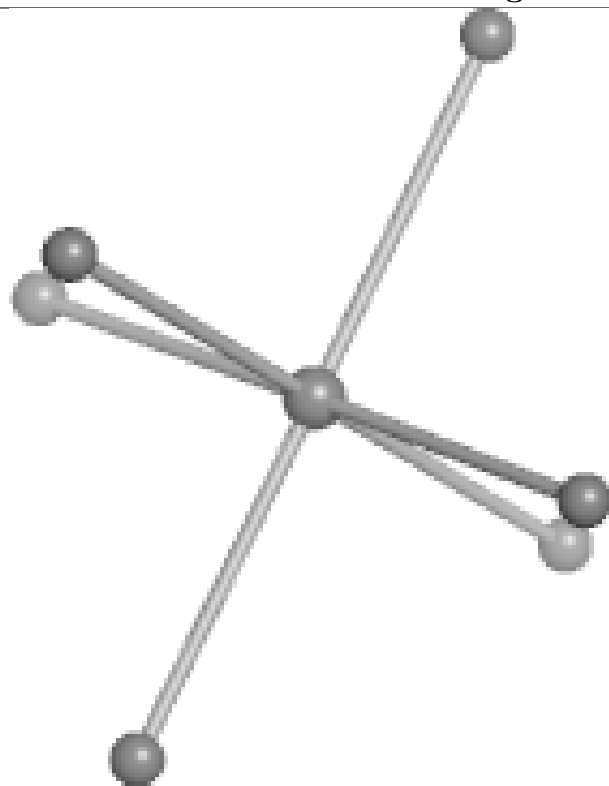




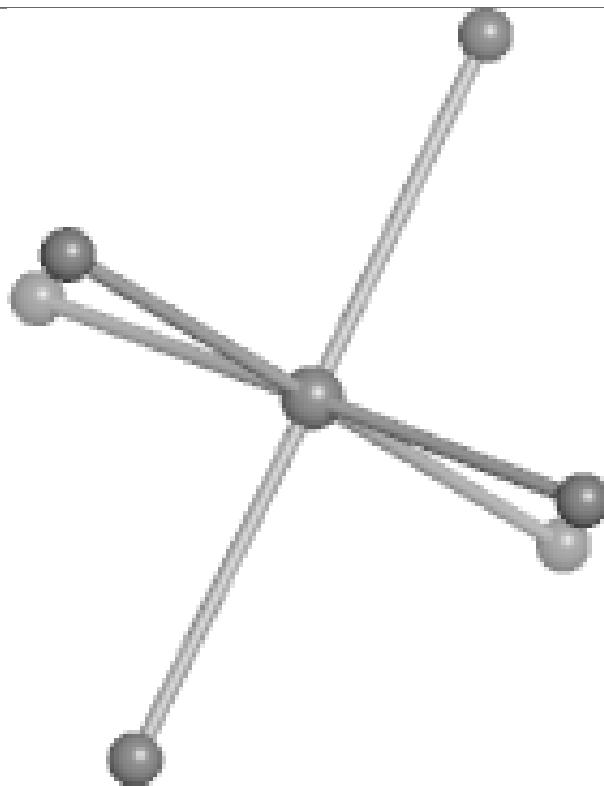




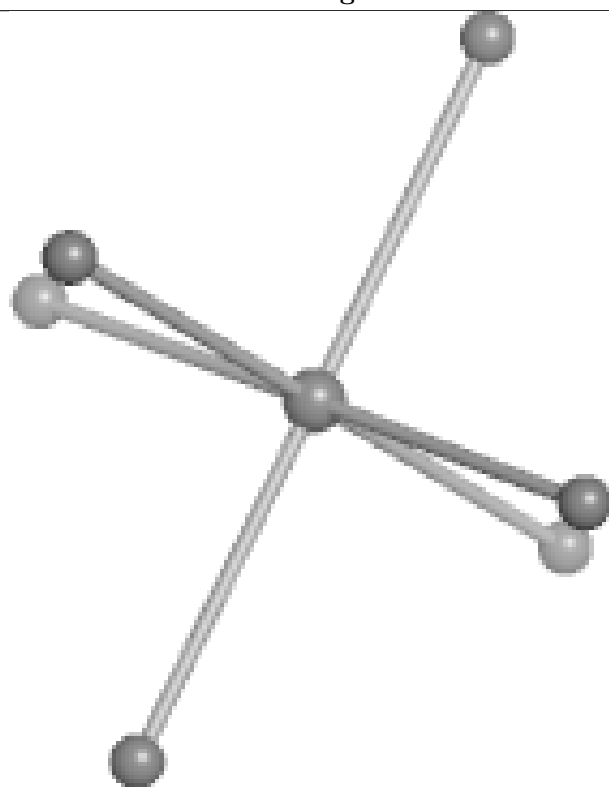
Ligand OHX 5 3737



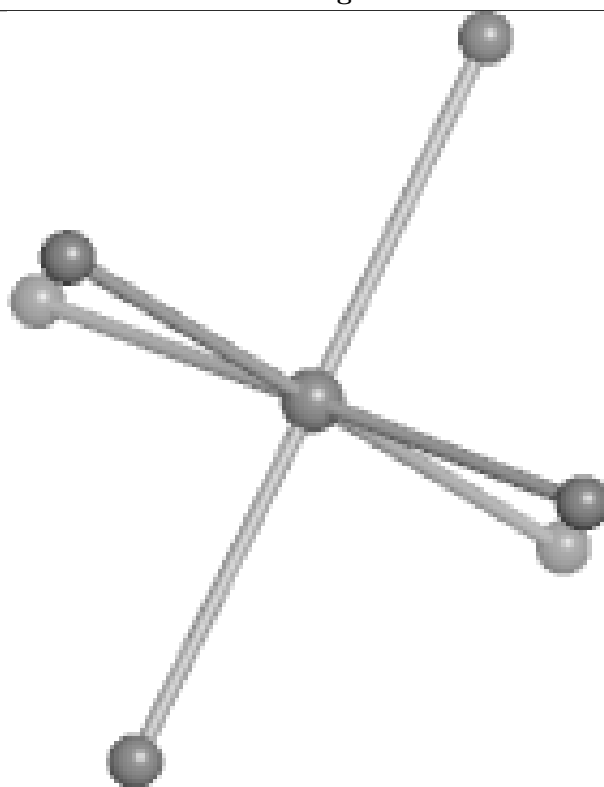
Bond lengths



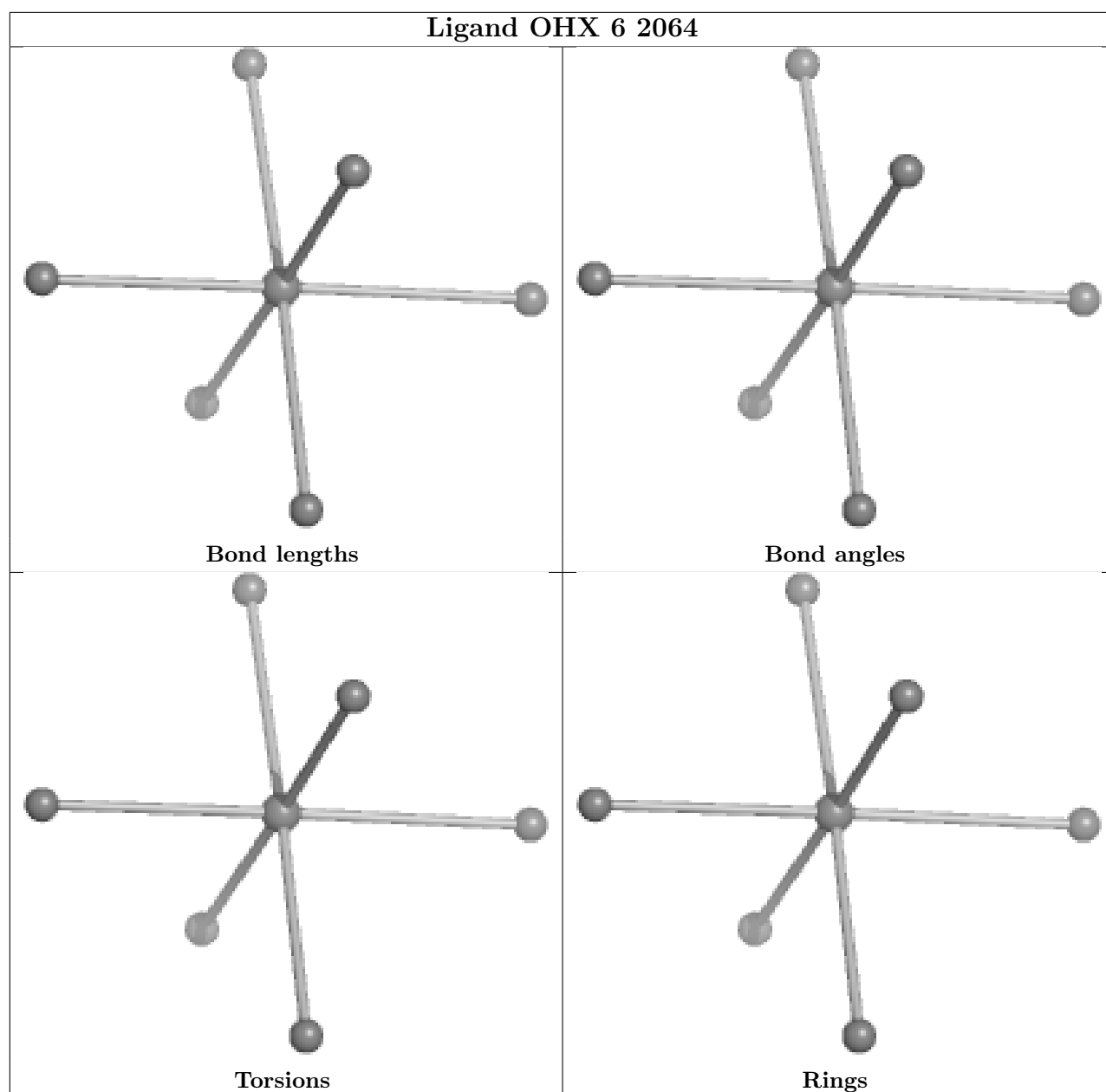
Bond angles

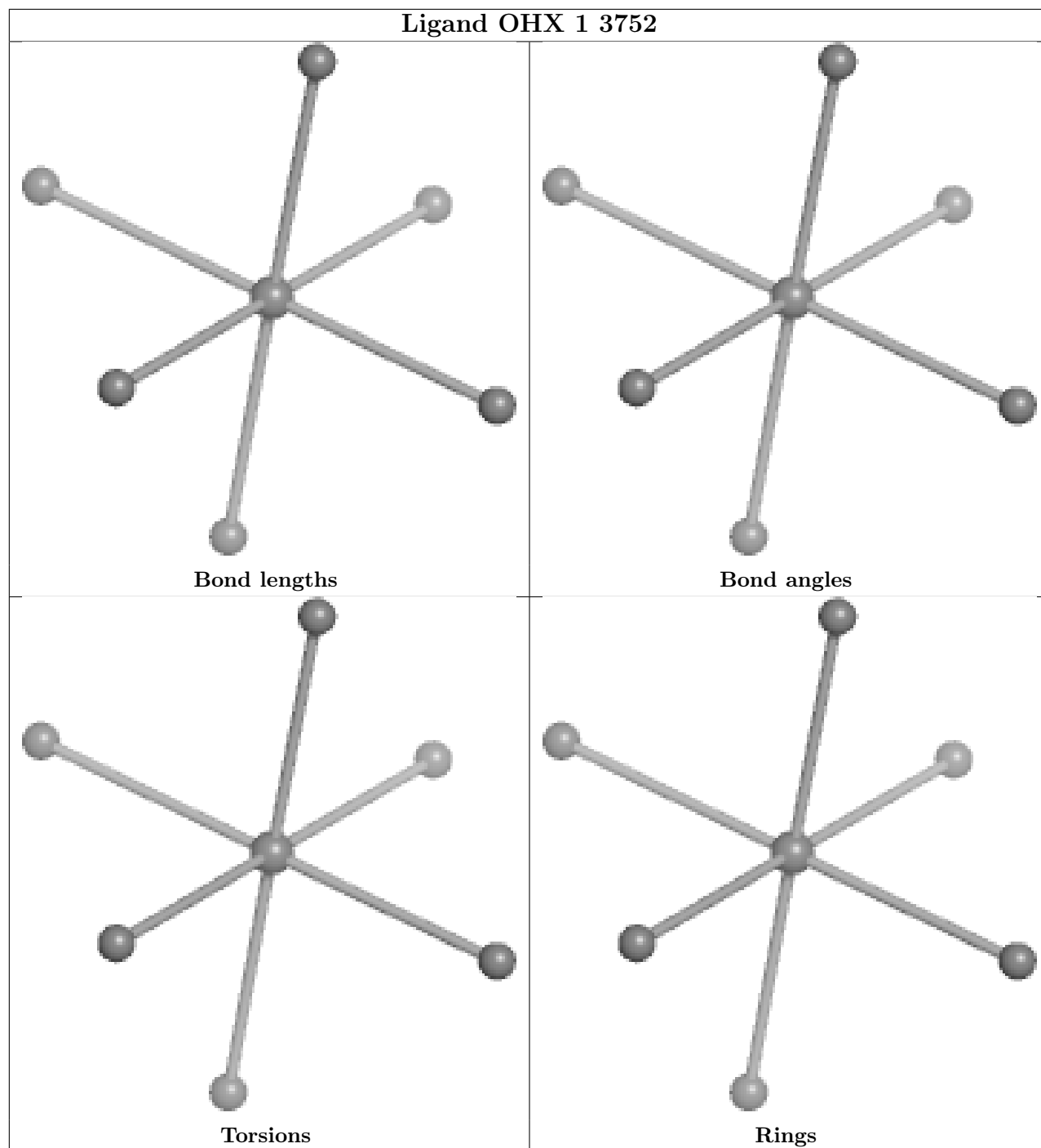


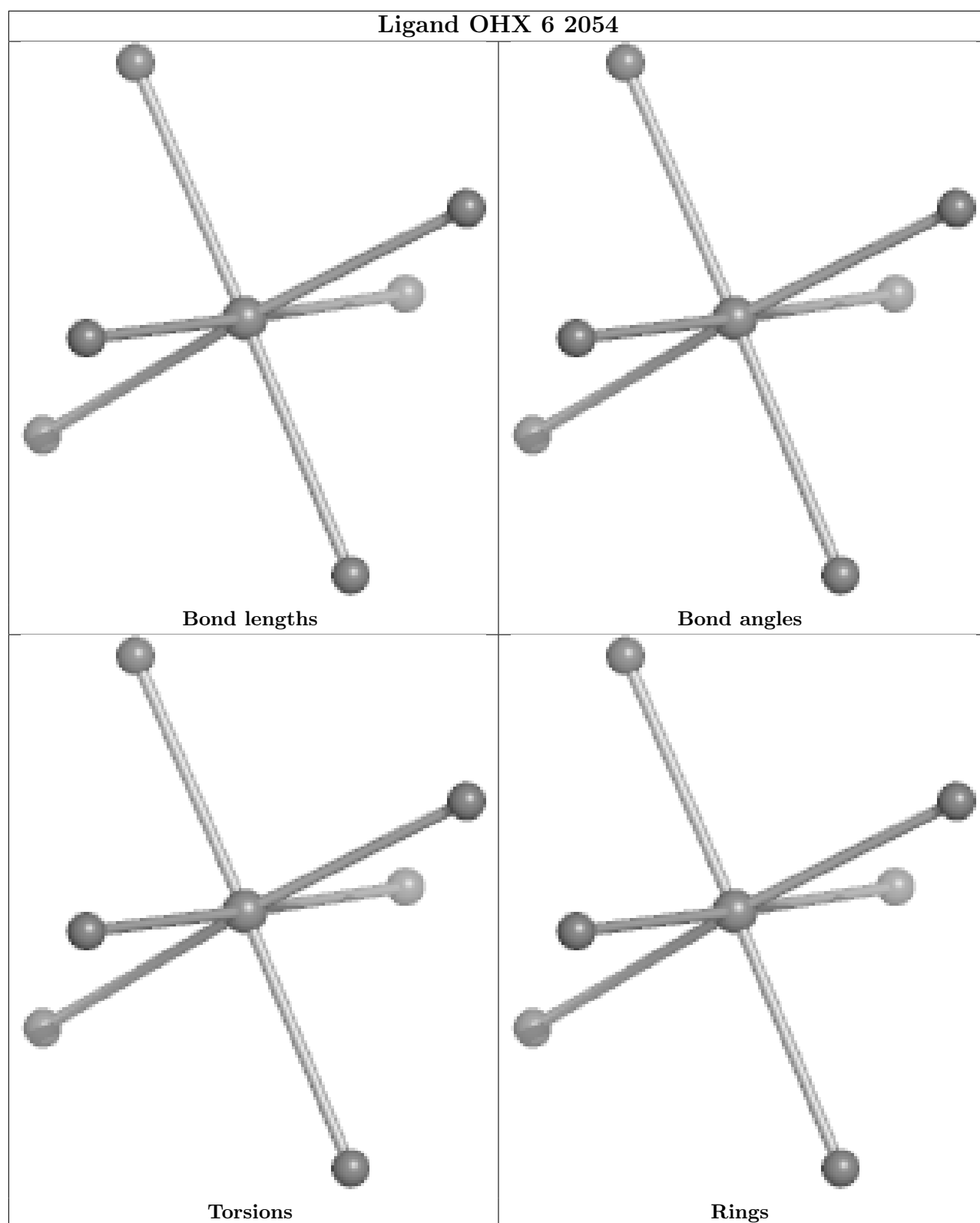
Torsions



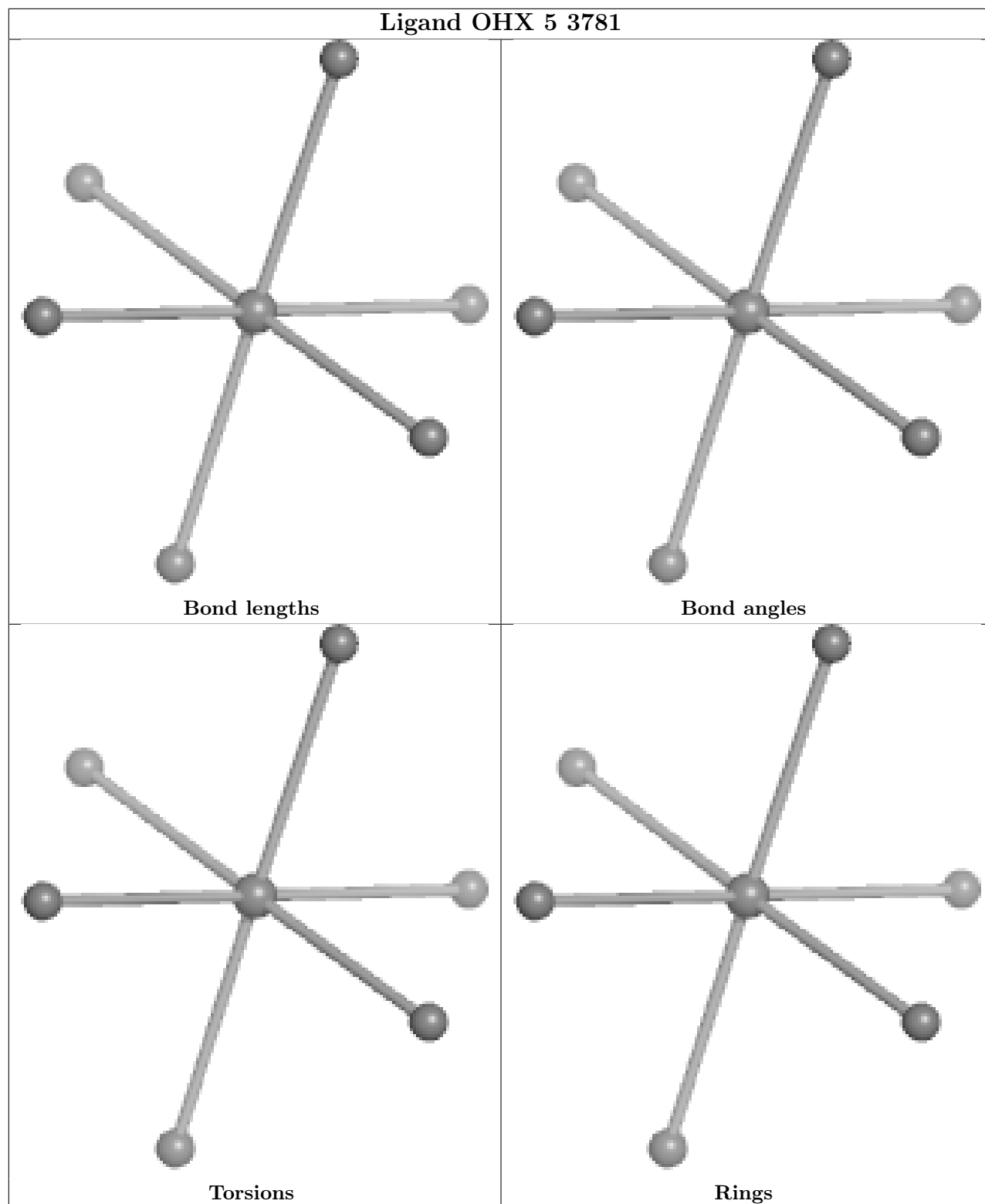
Rings



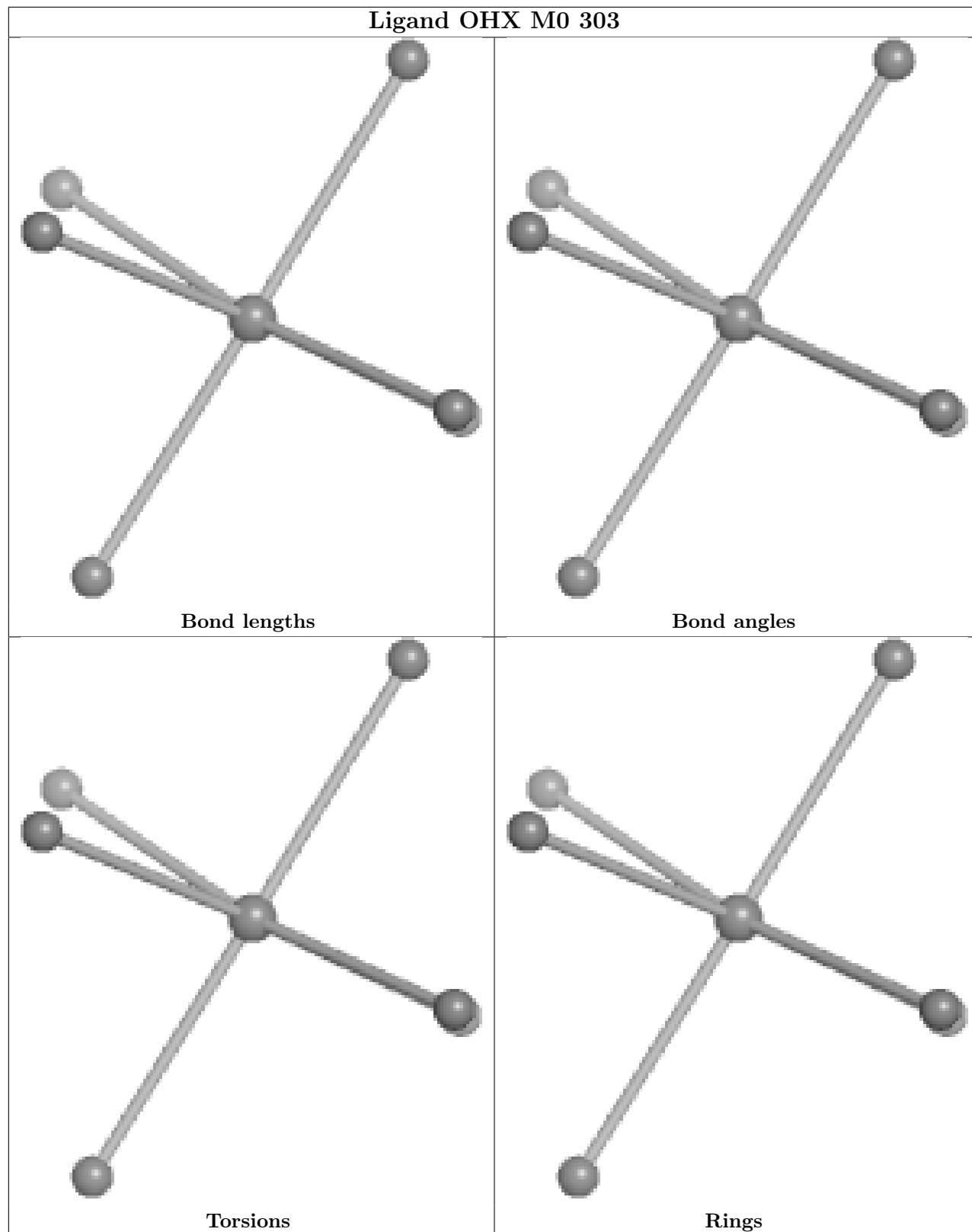


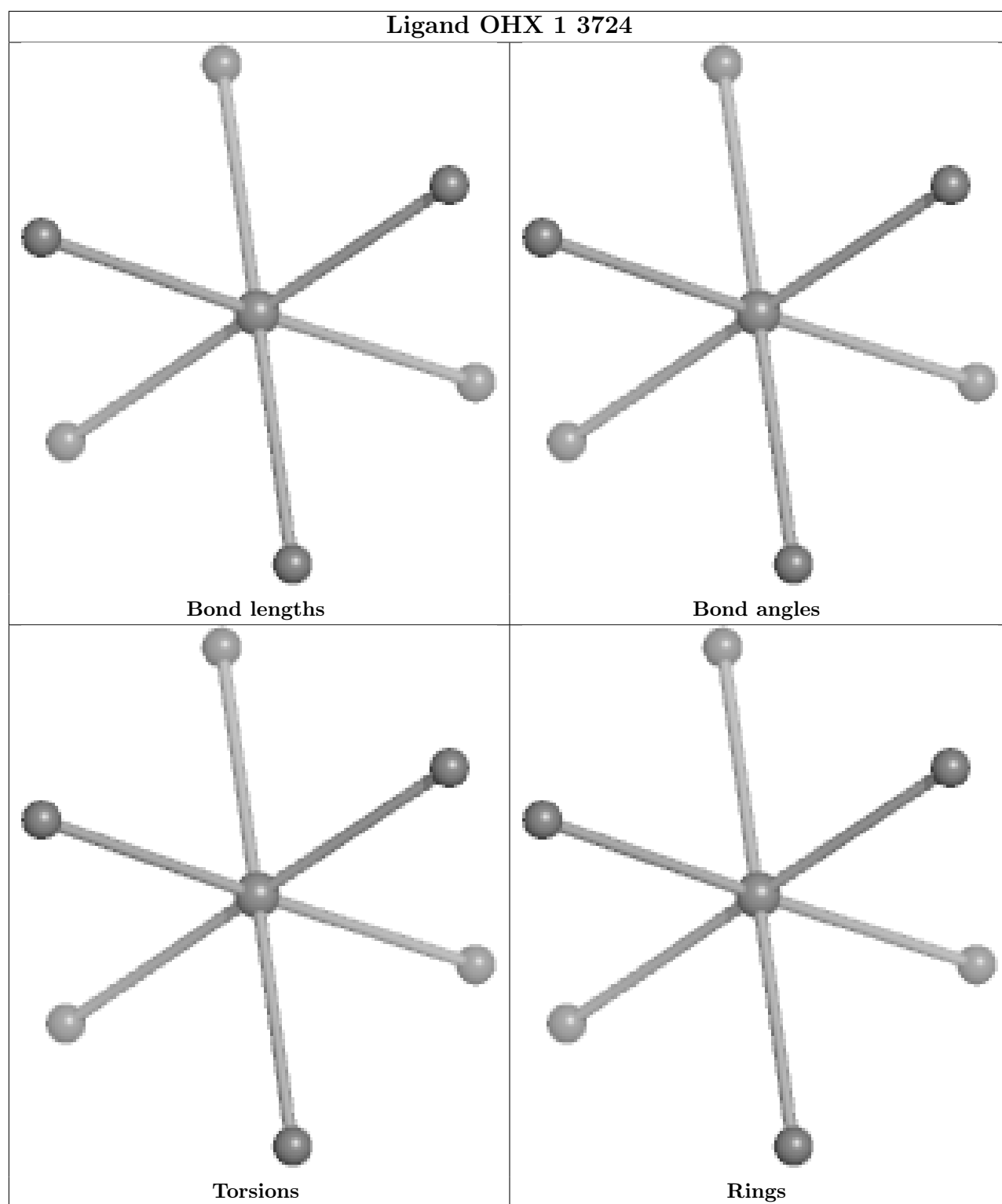


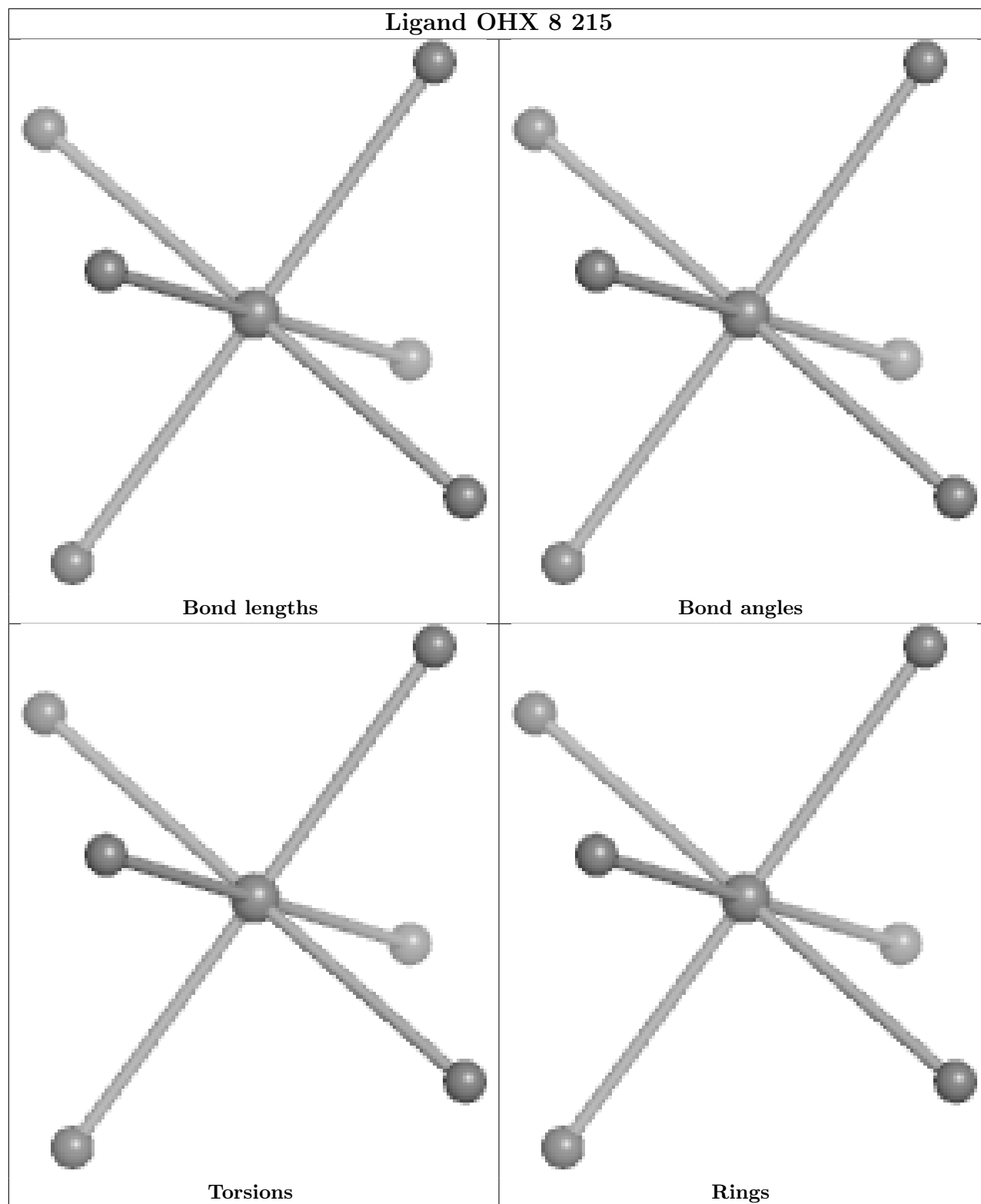
Ligand OHX 5 3781



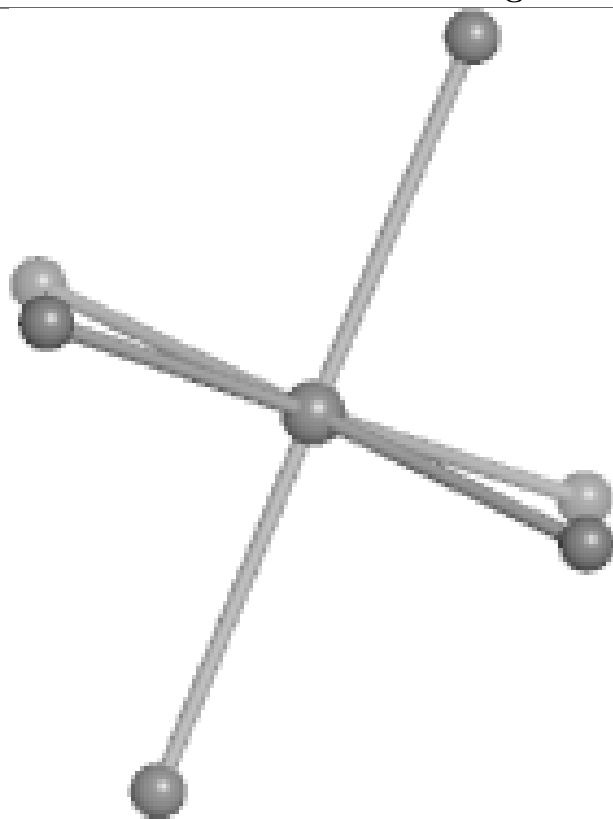
Ligand OHX M0 303



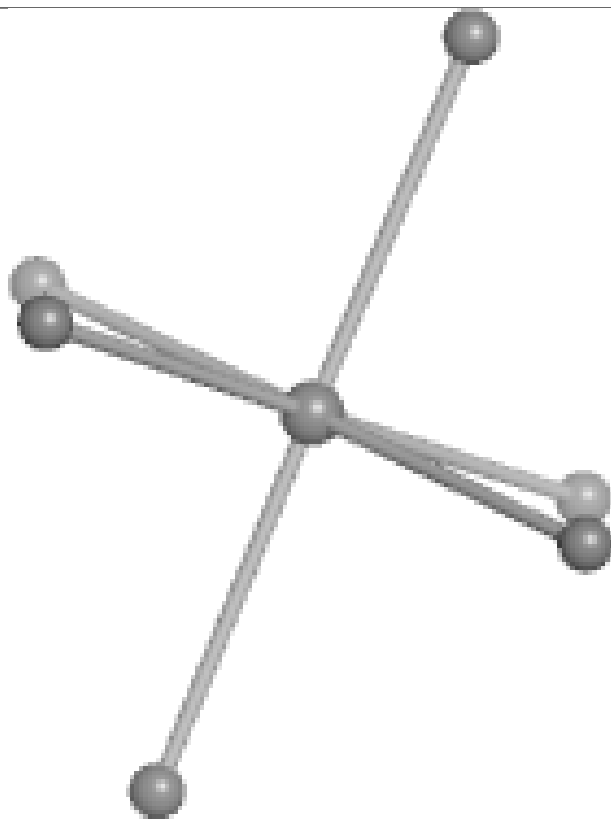




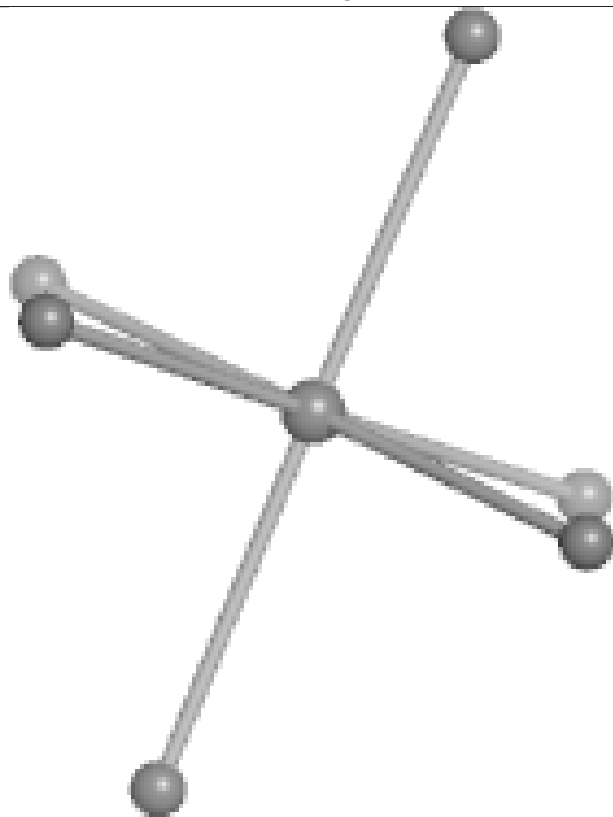
Ligand OHX 1 3799



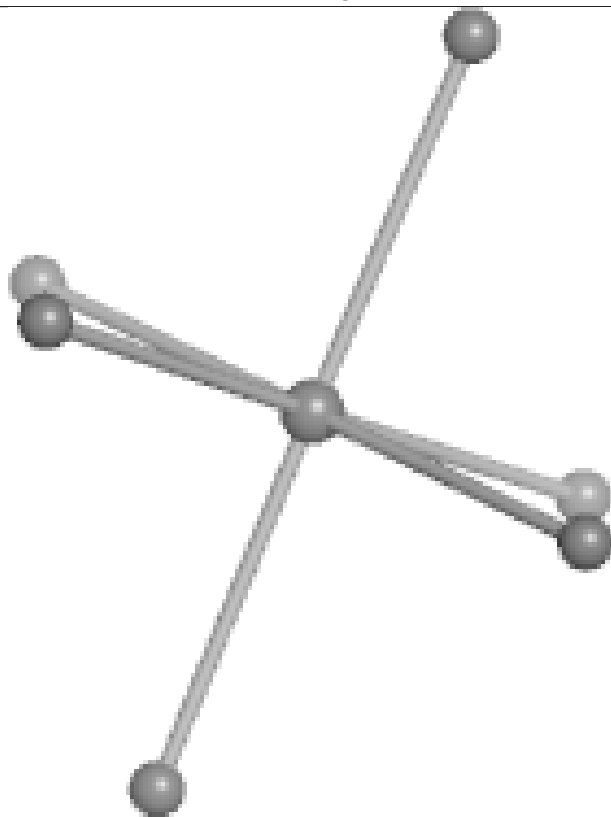
Bond lengths



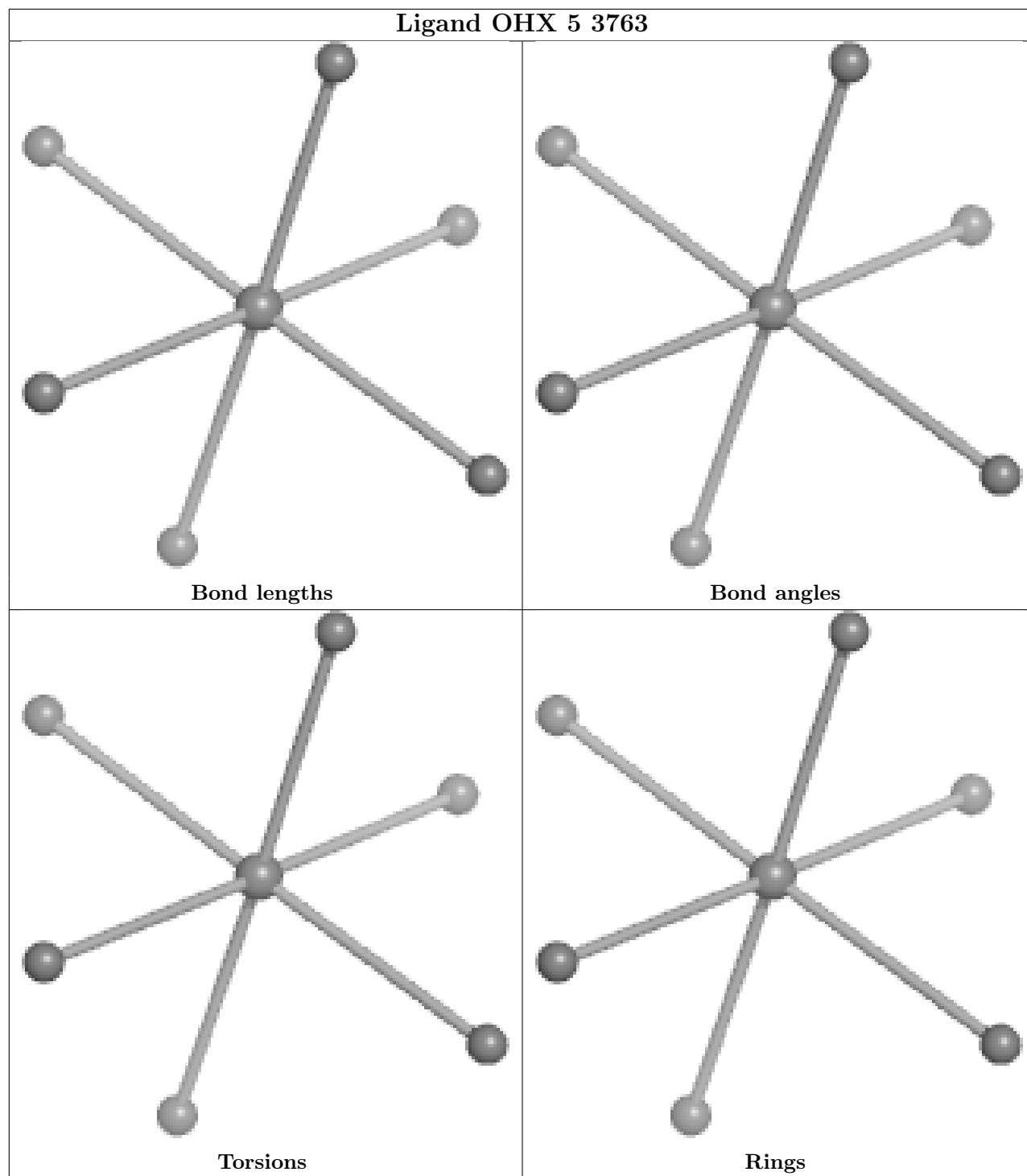
Bond angles

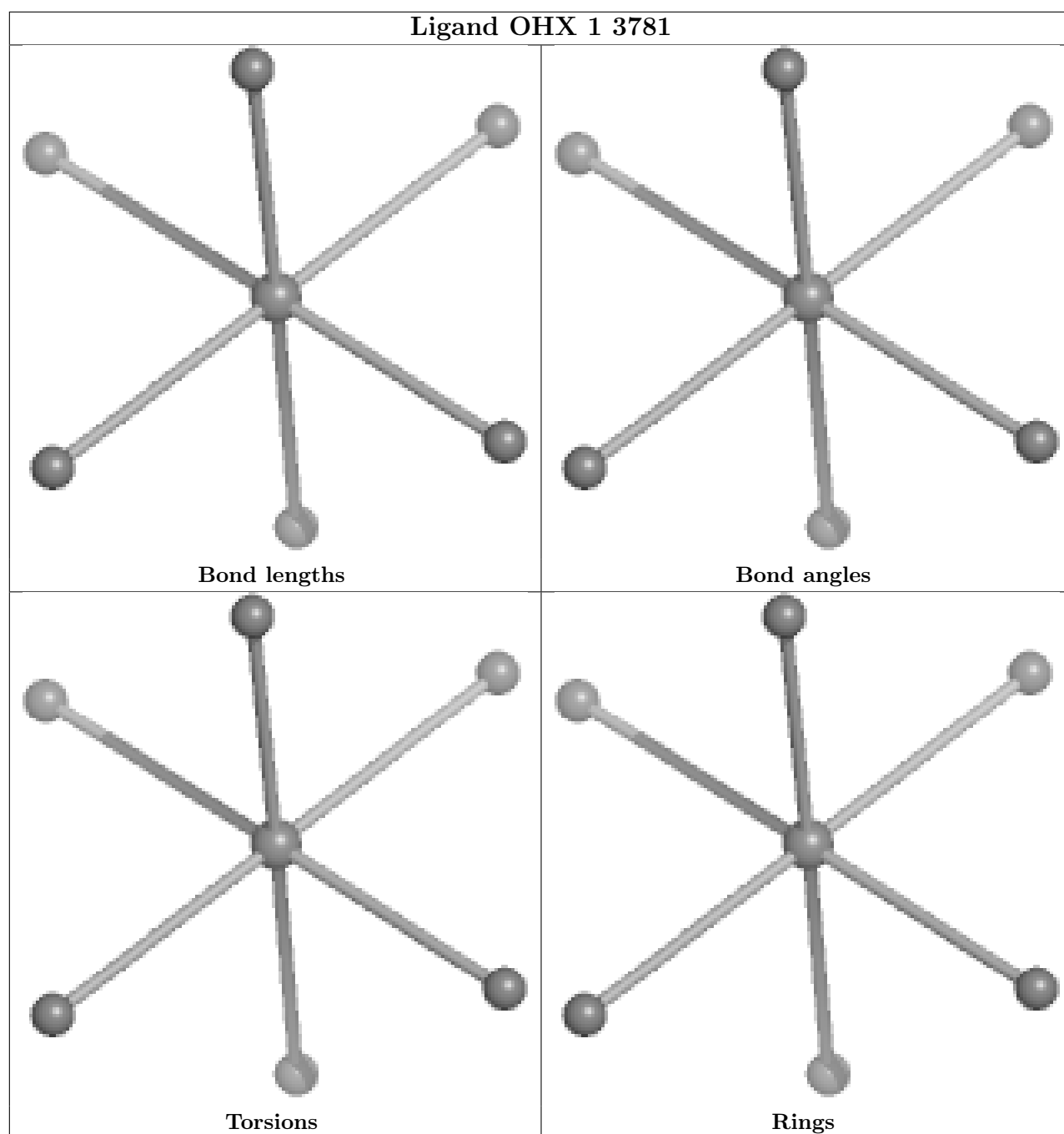


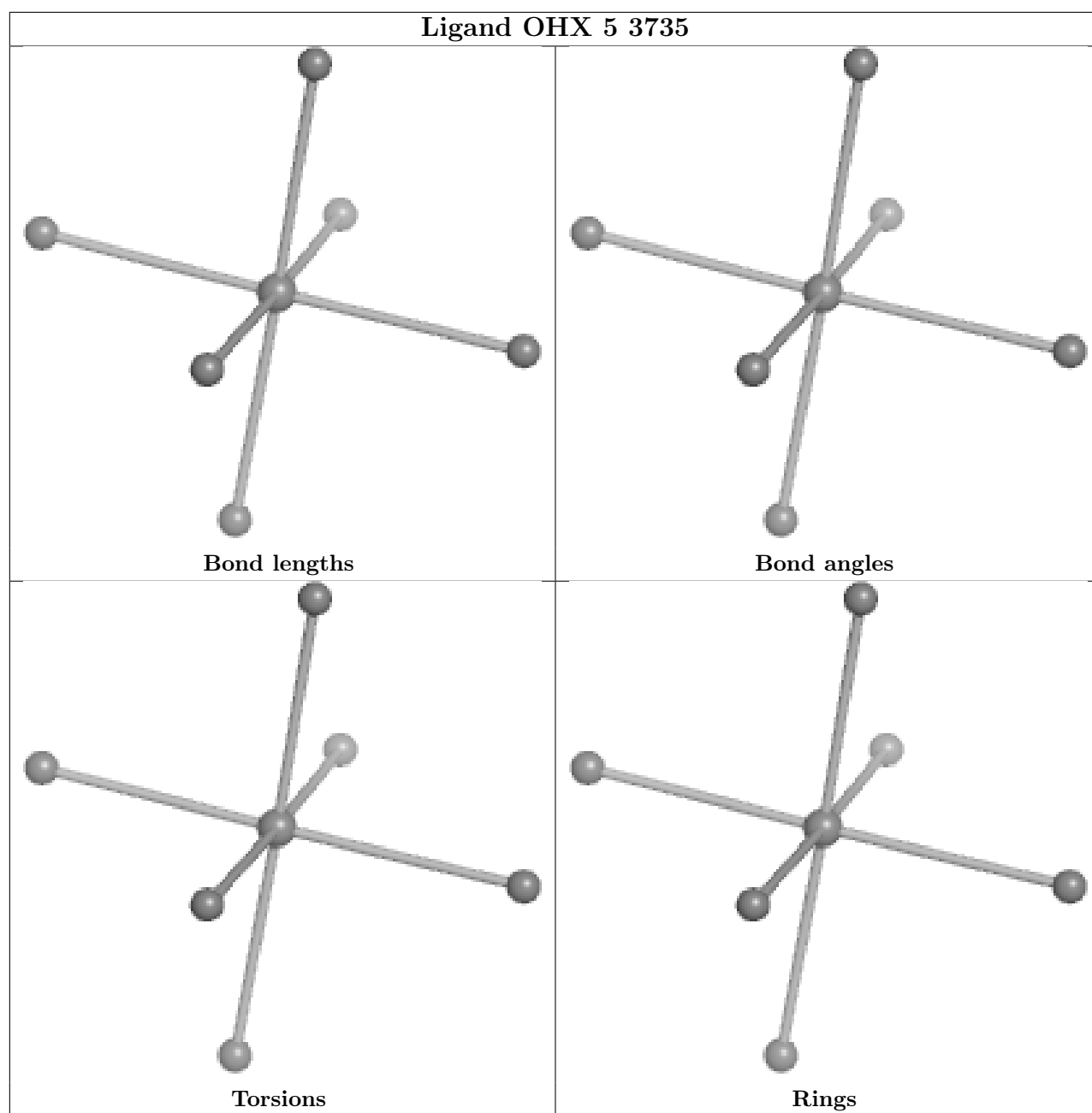
Torsions

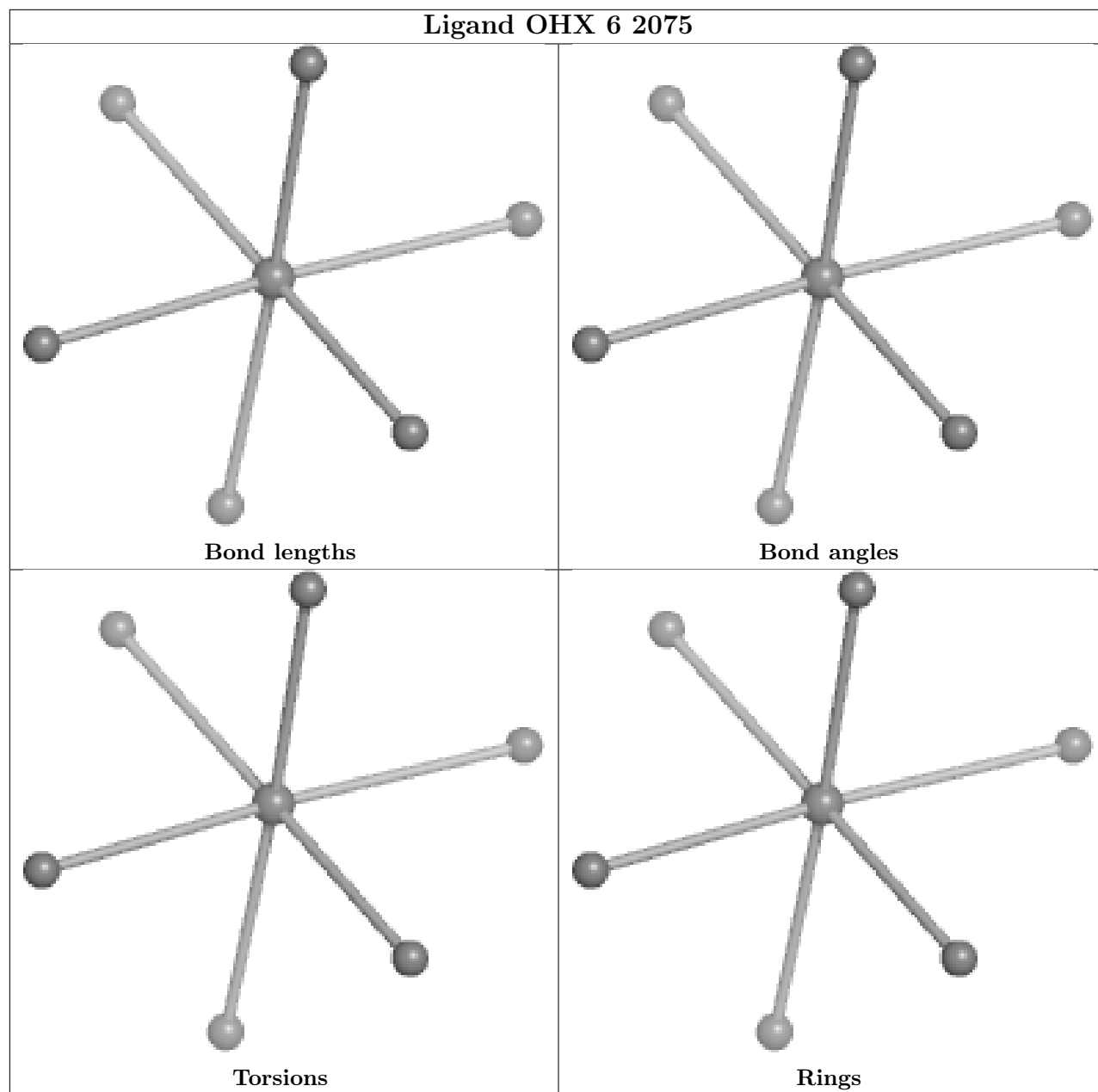


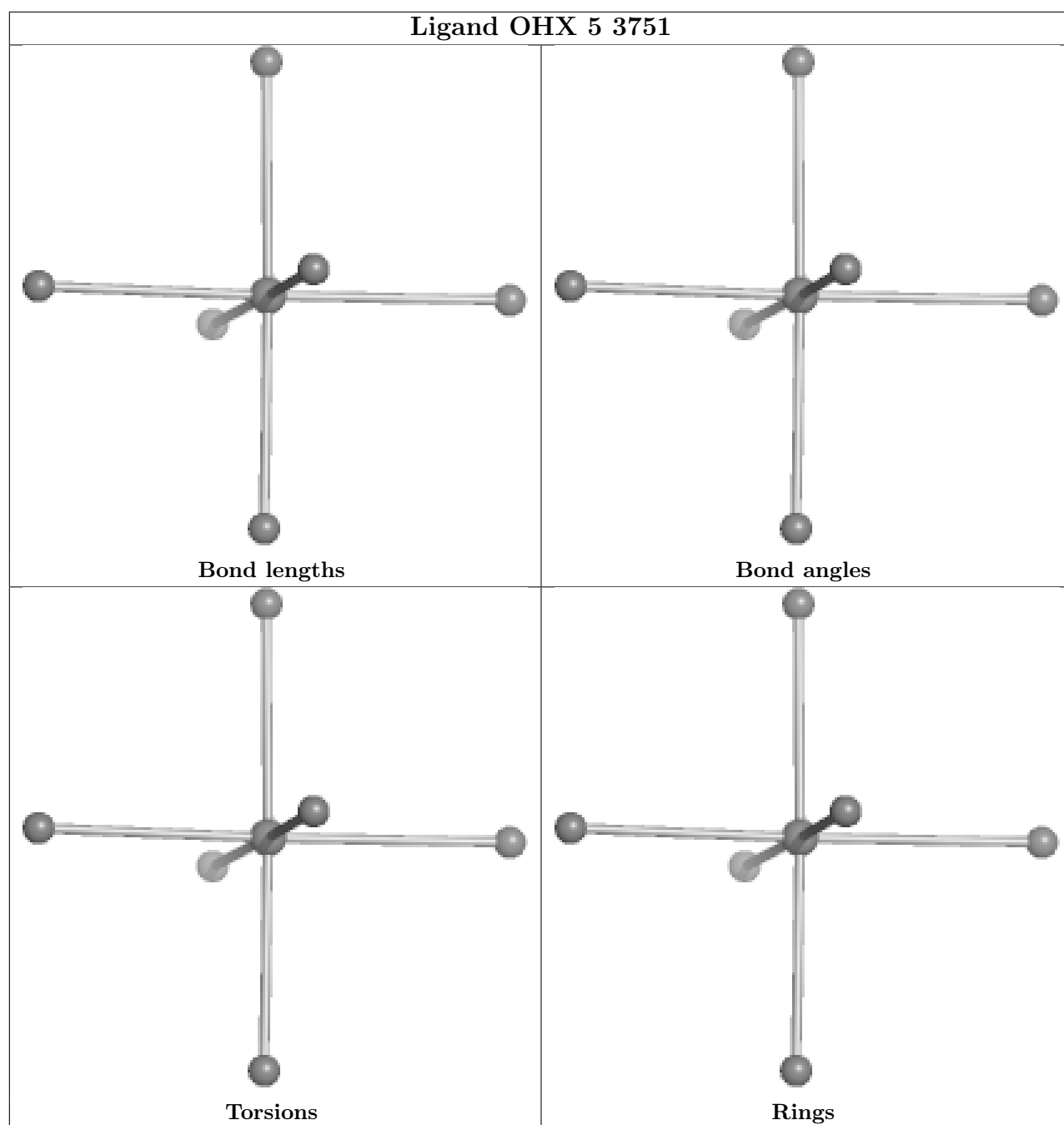
Rings

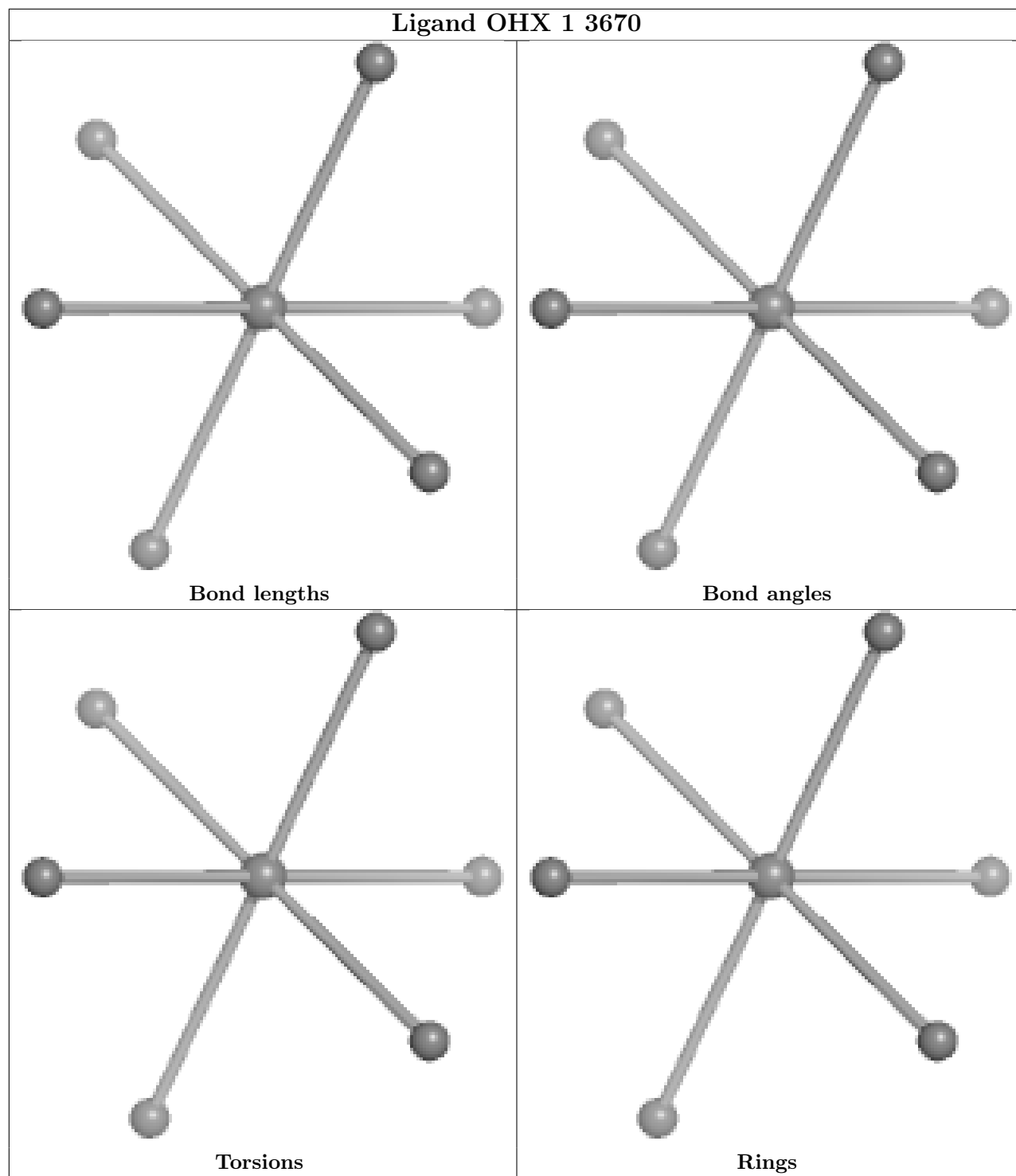


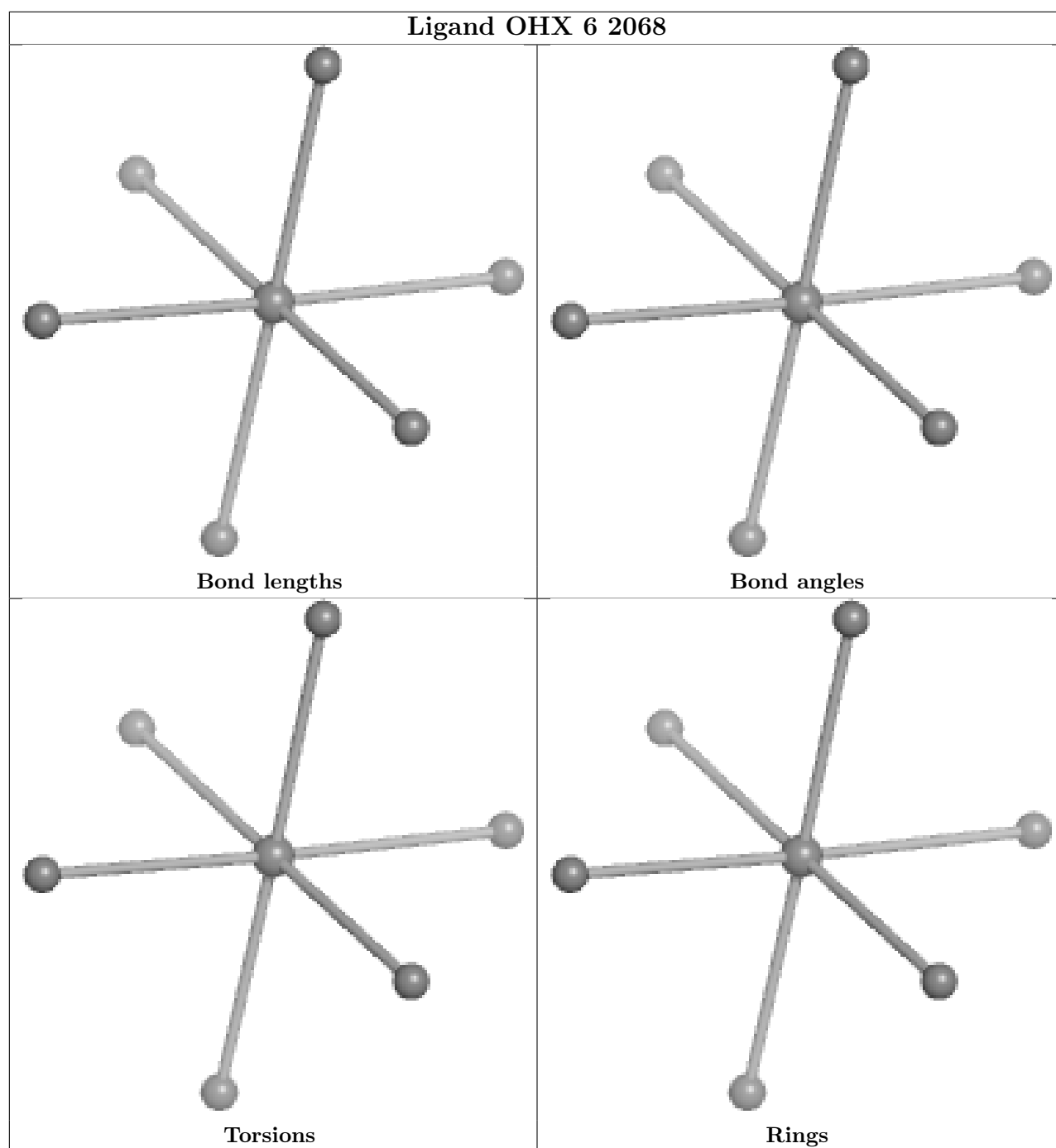


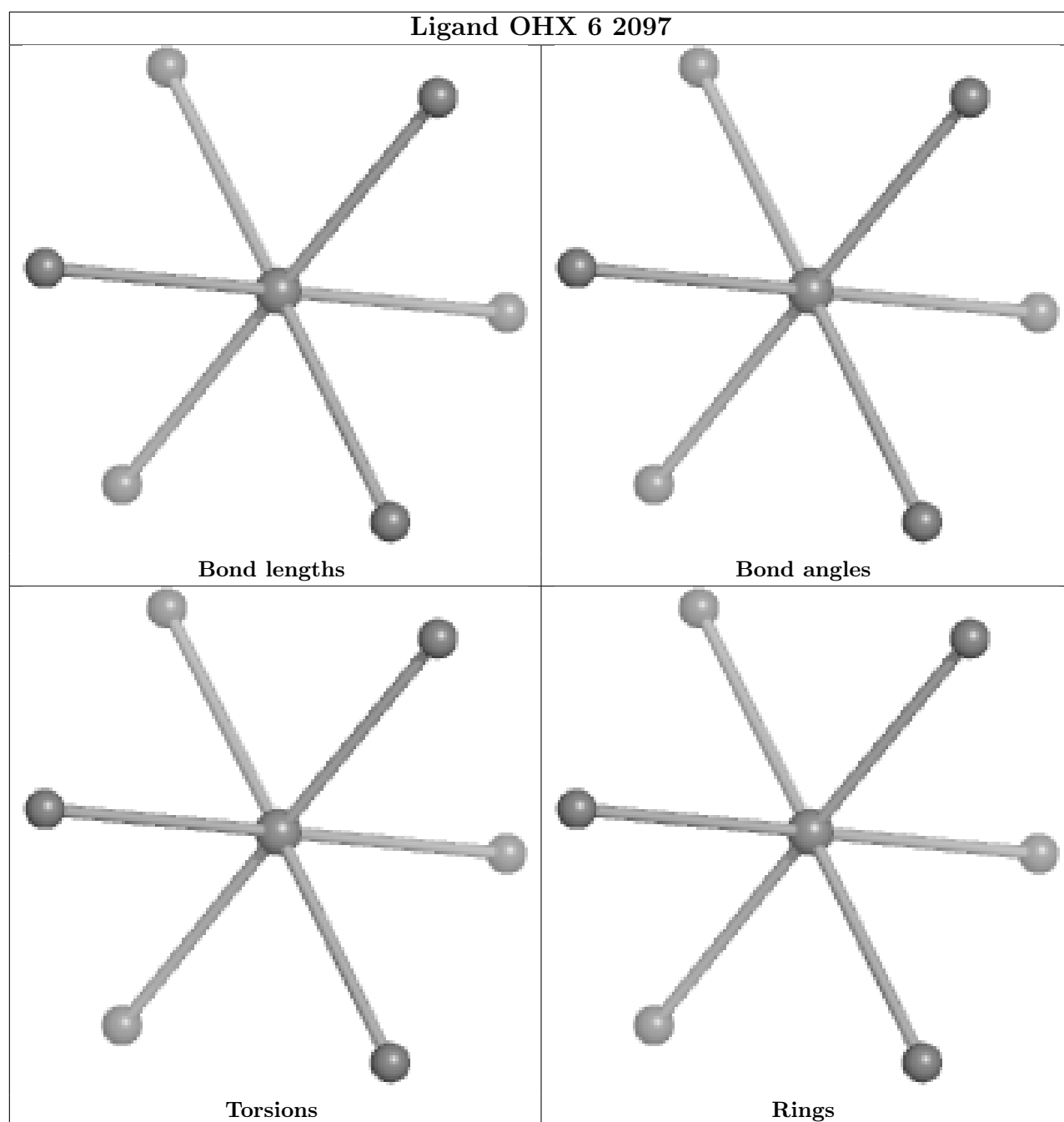


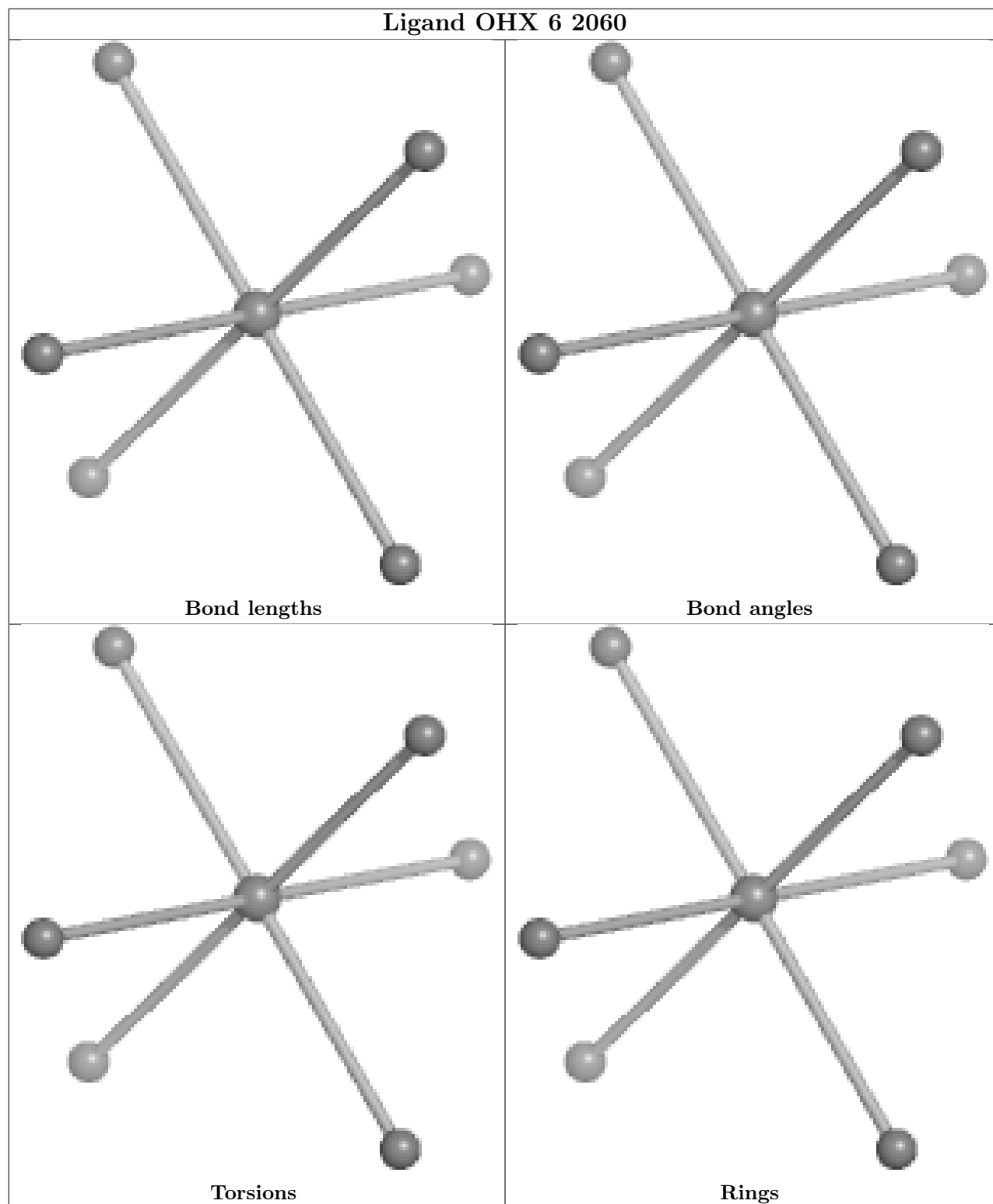


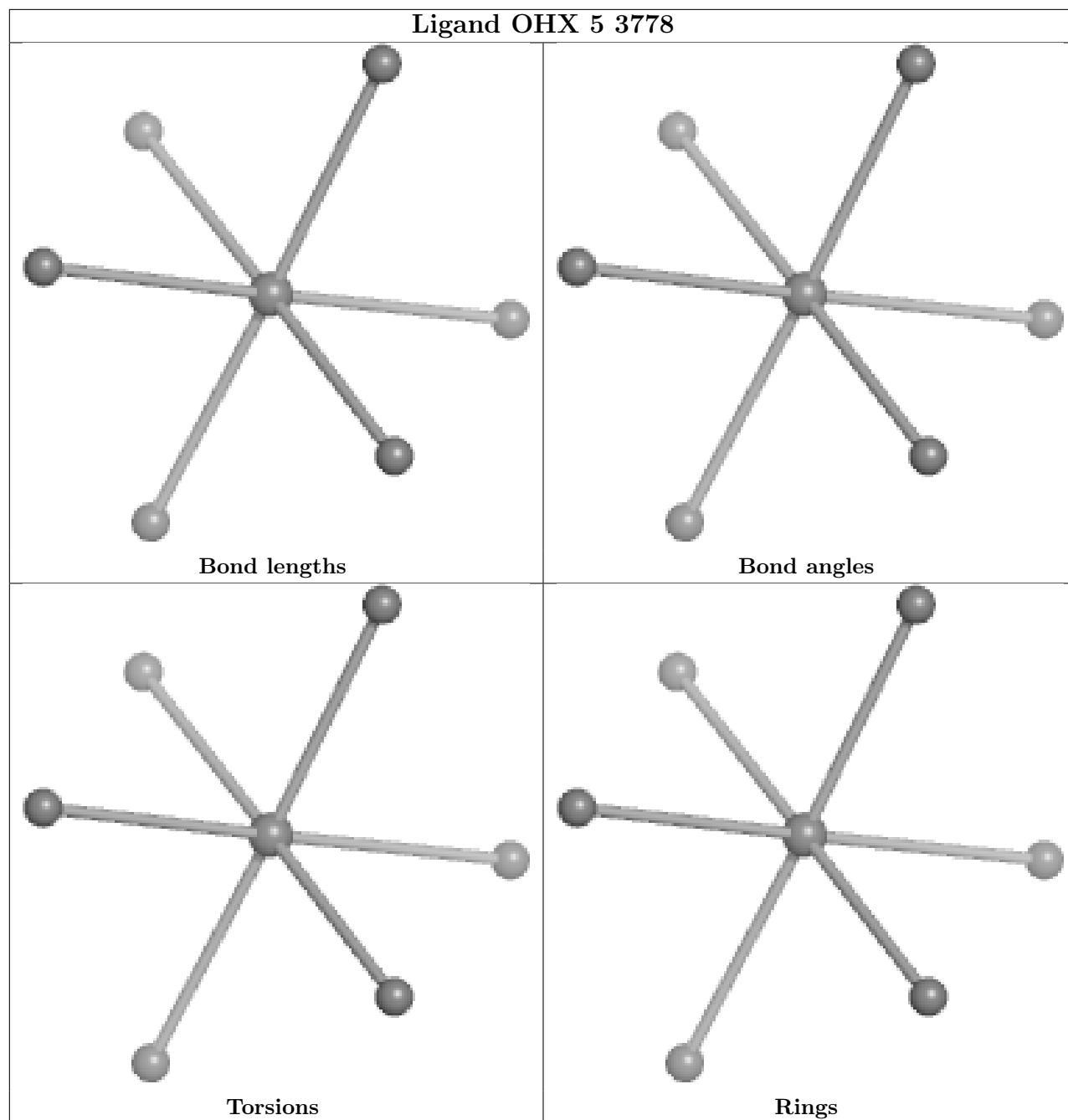


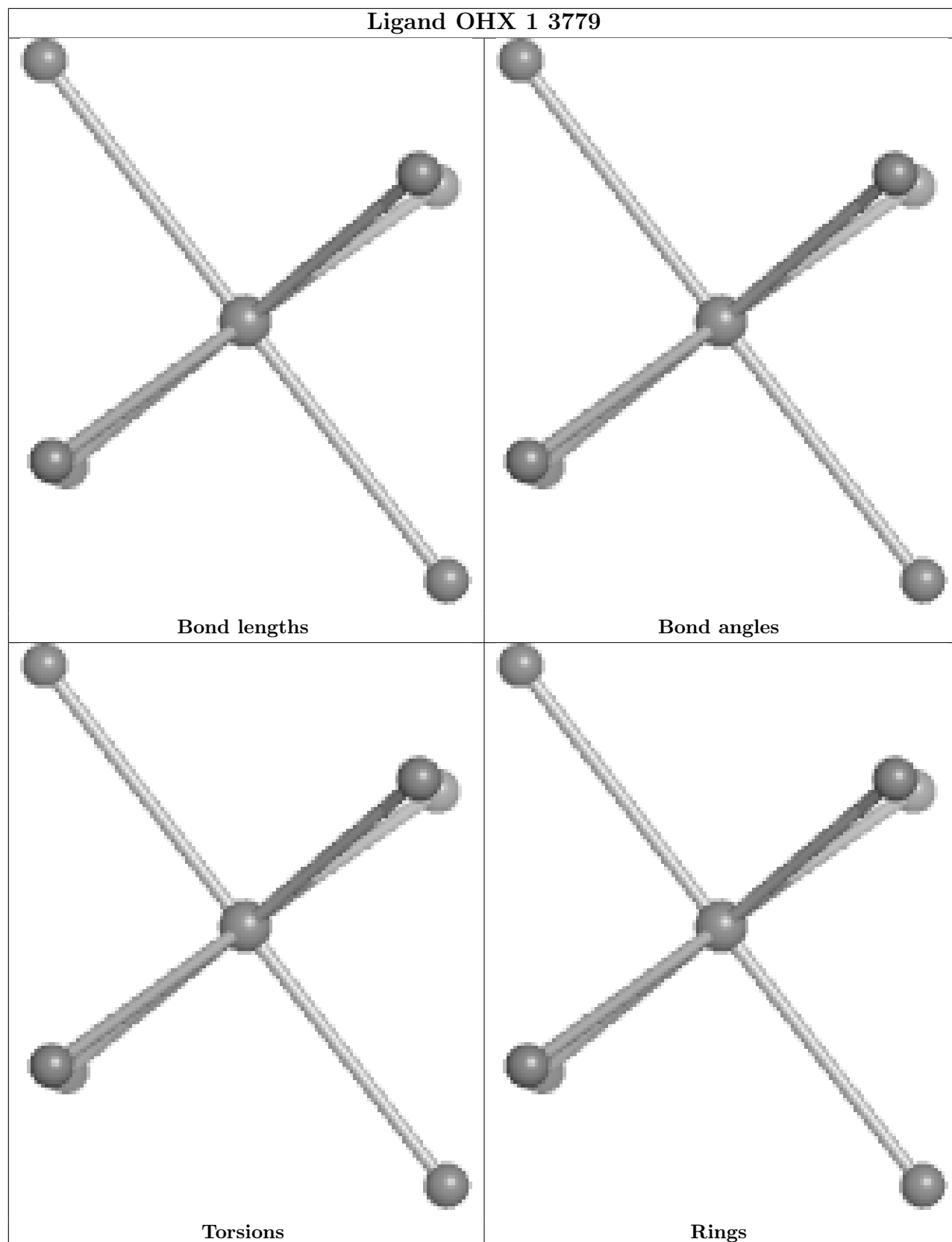


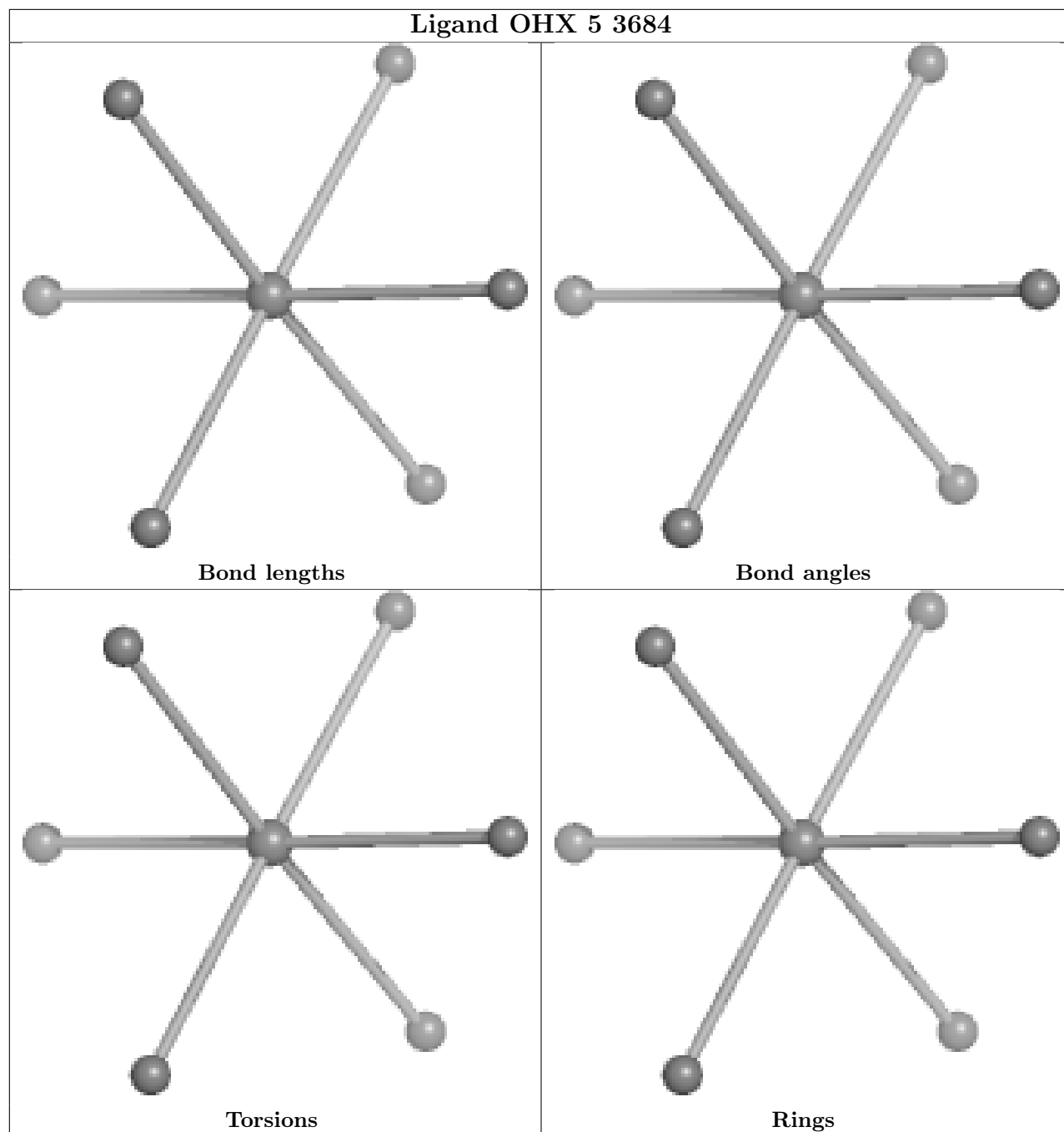


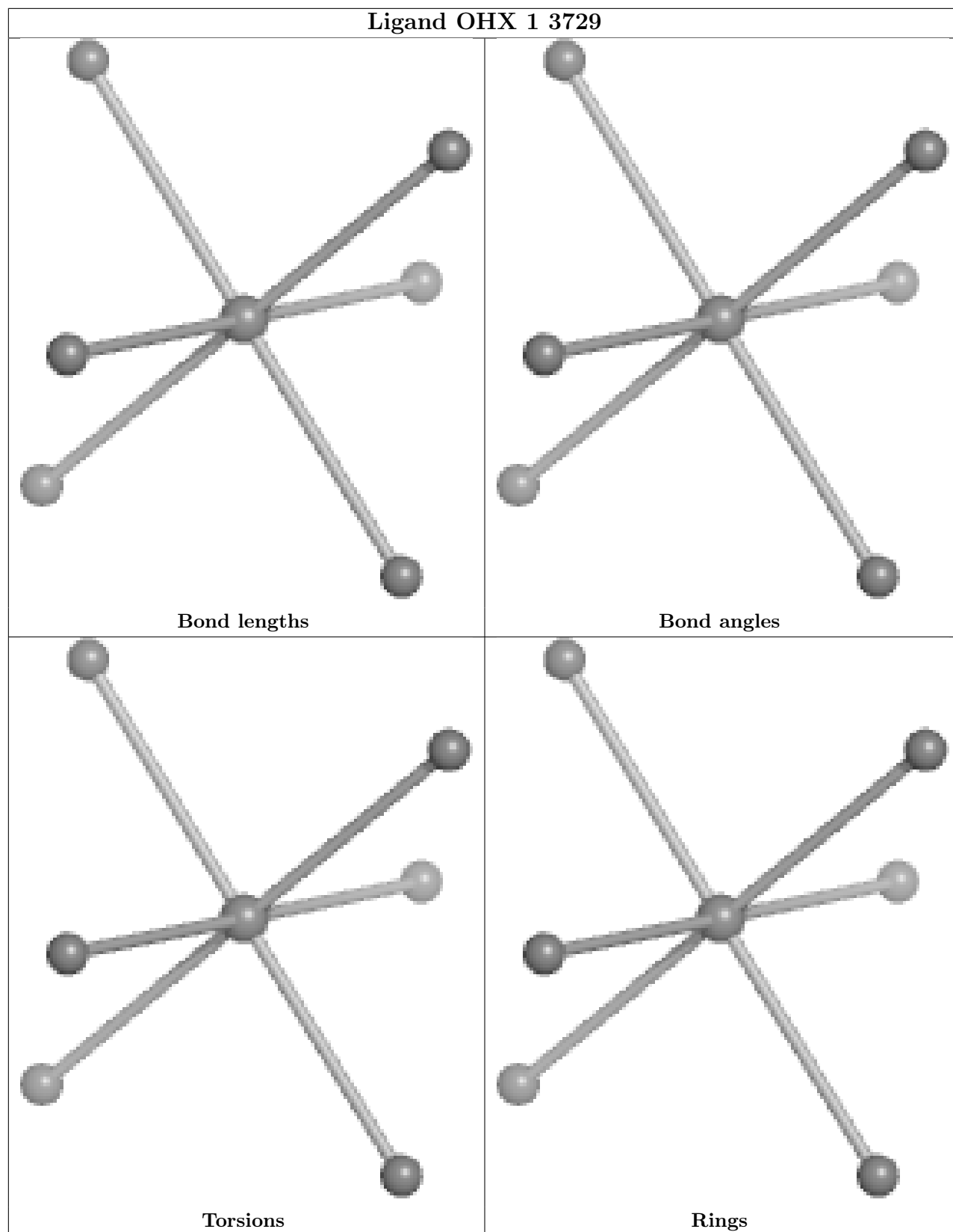


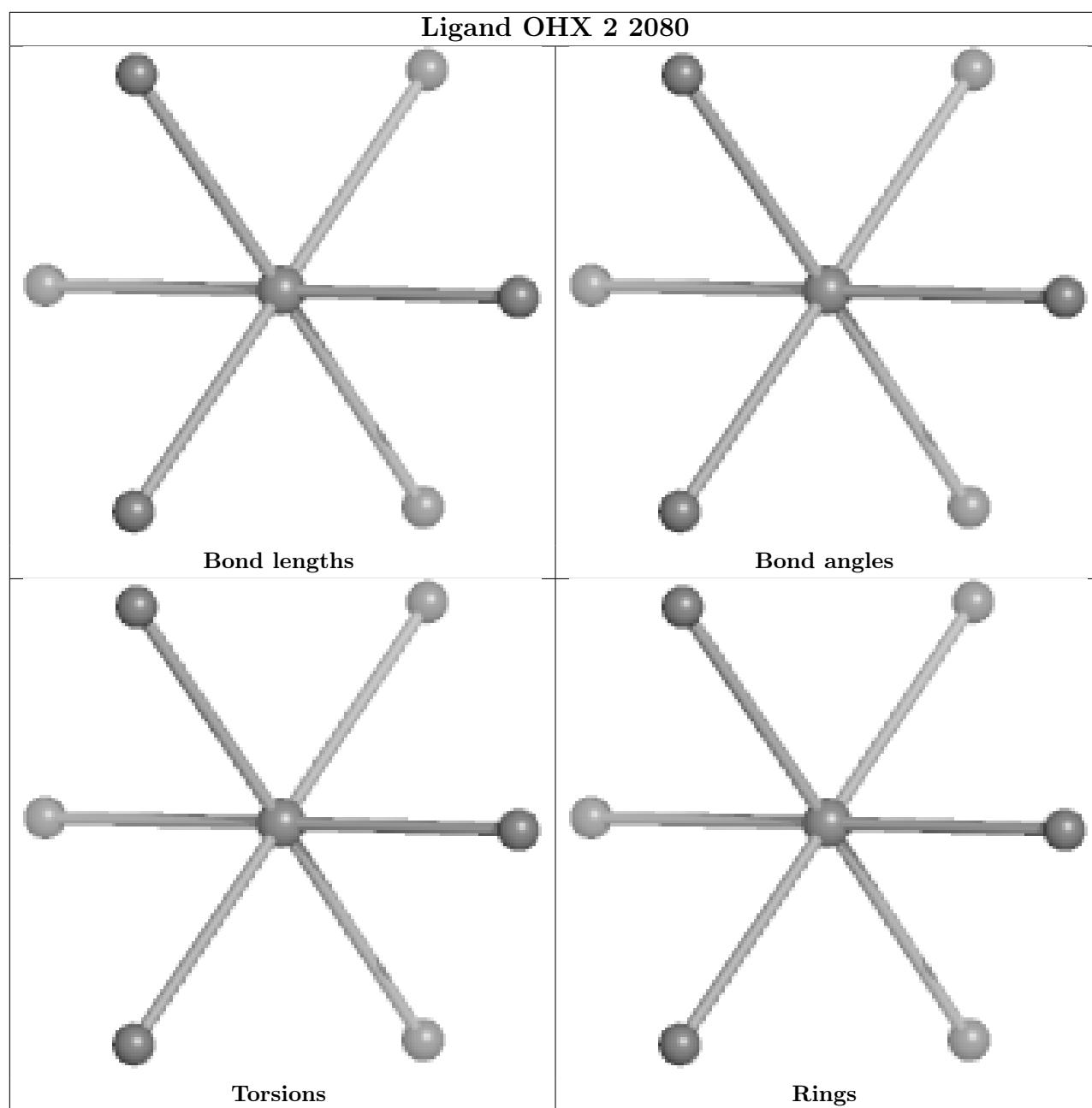




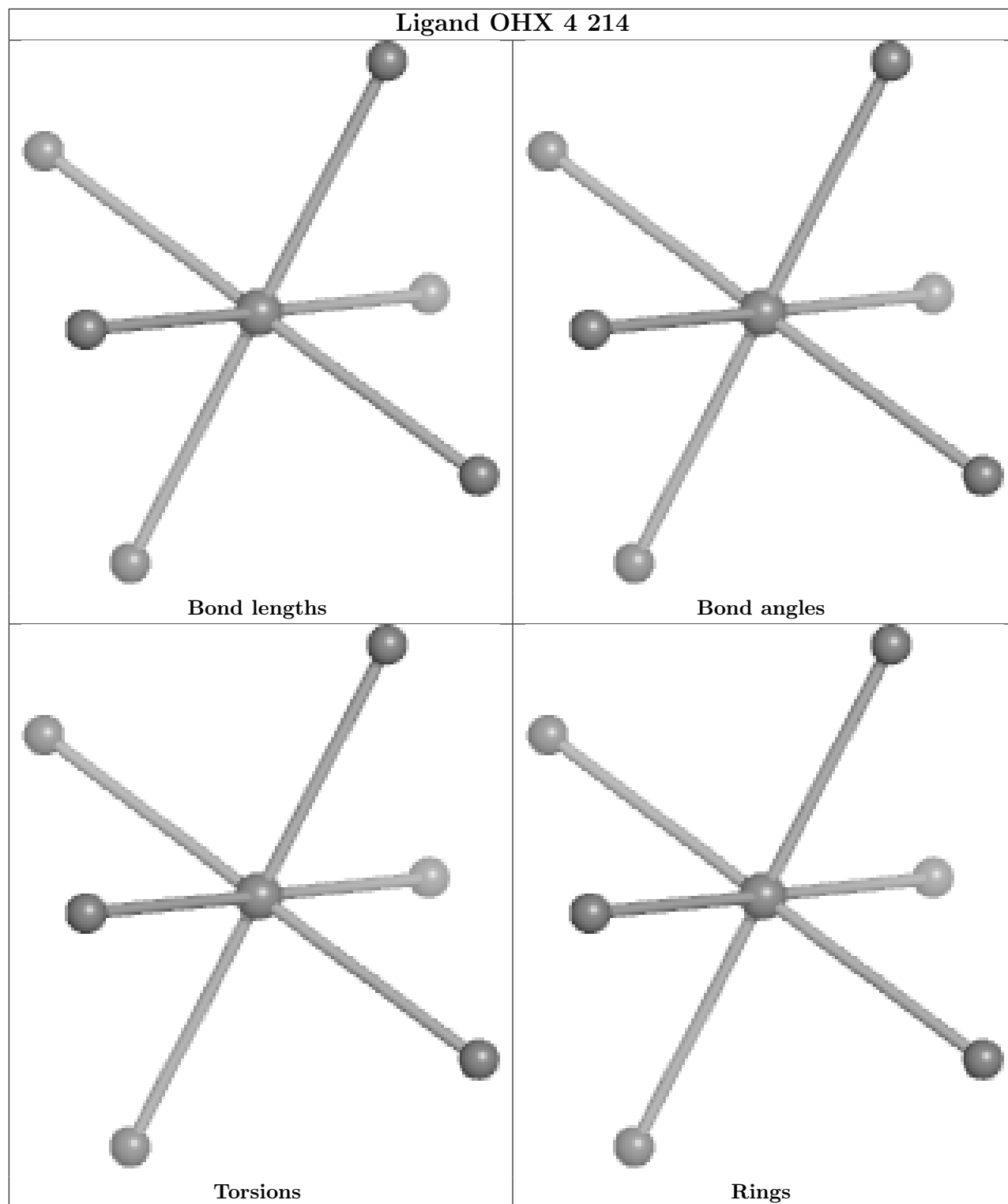


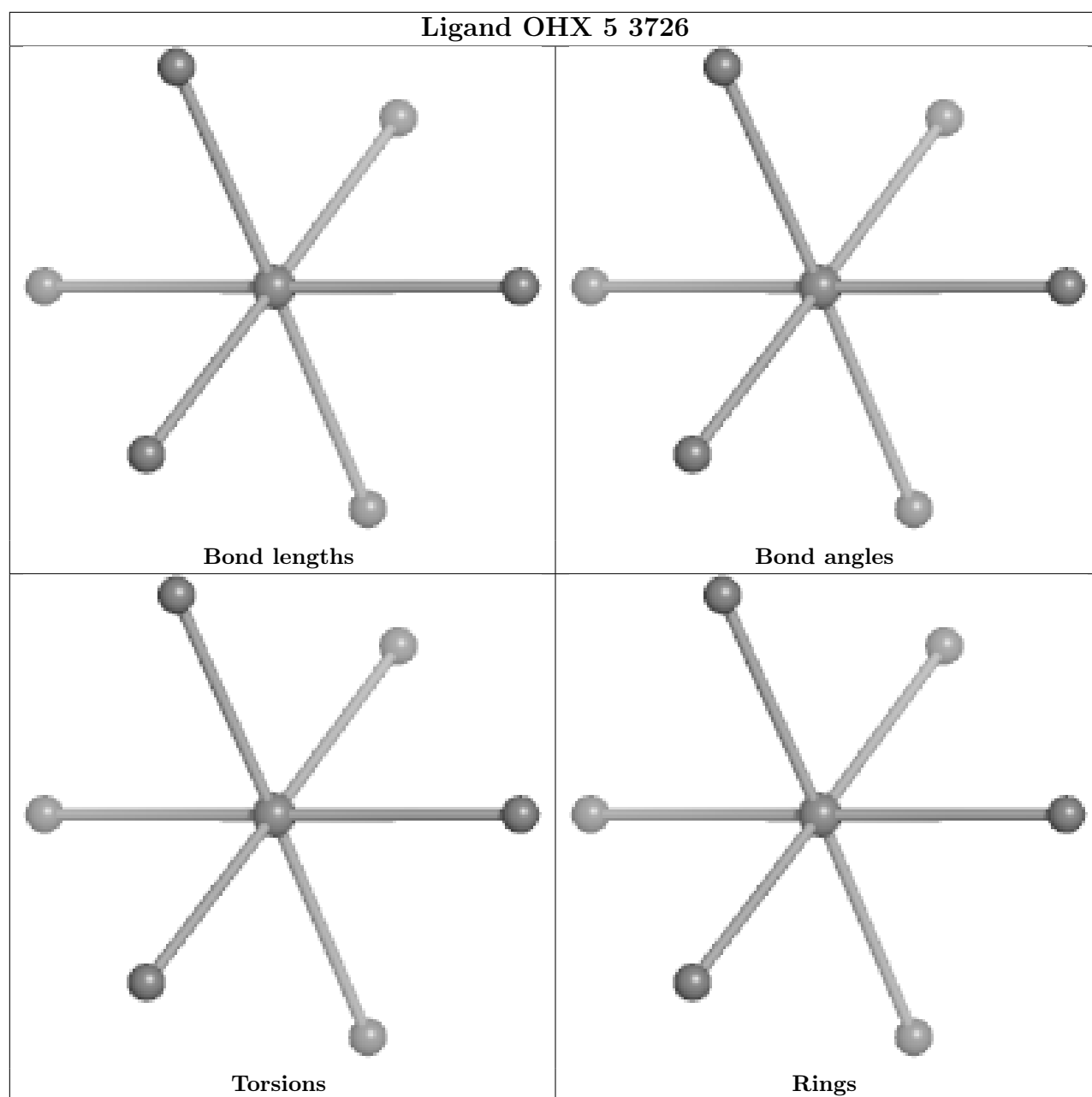


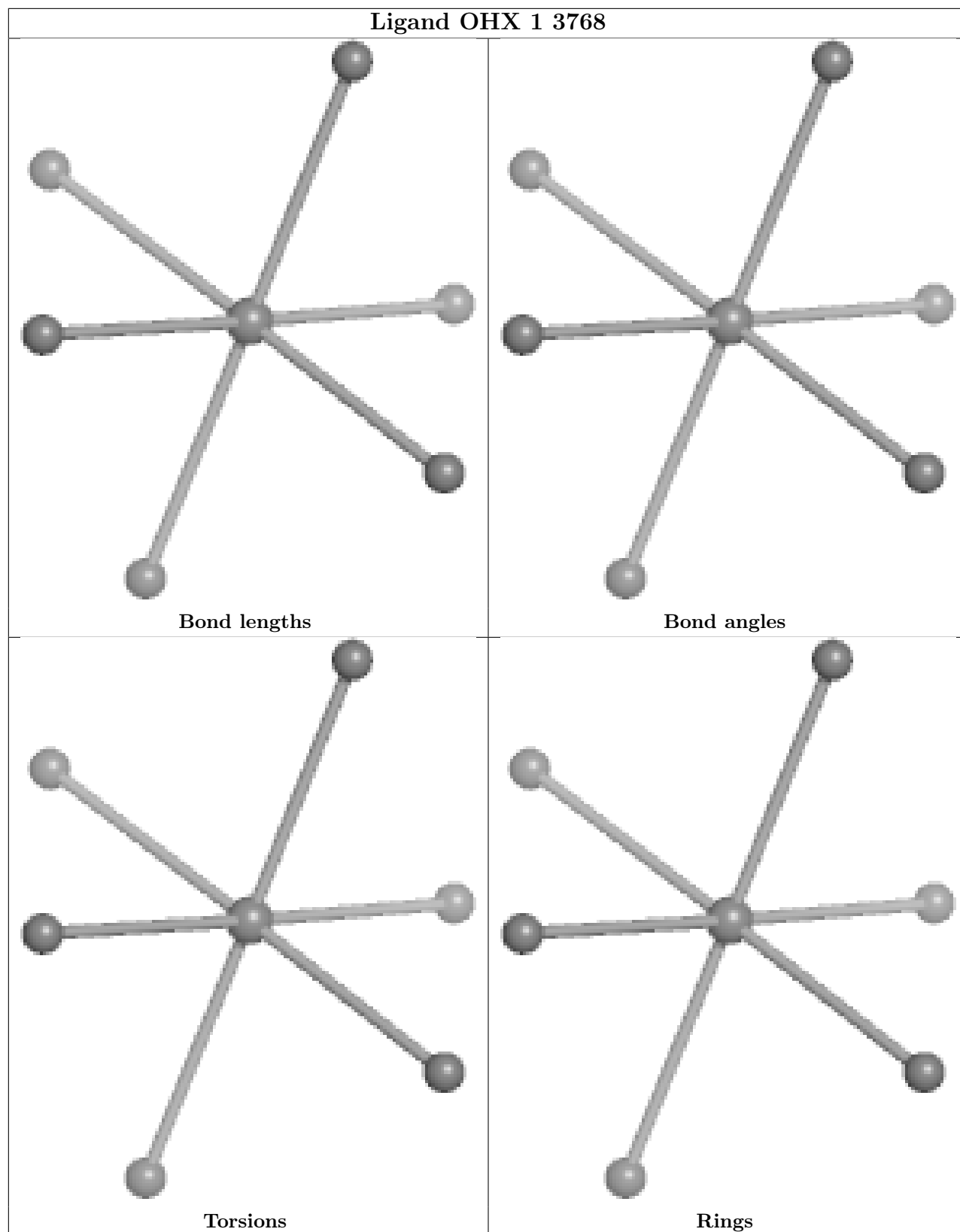


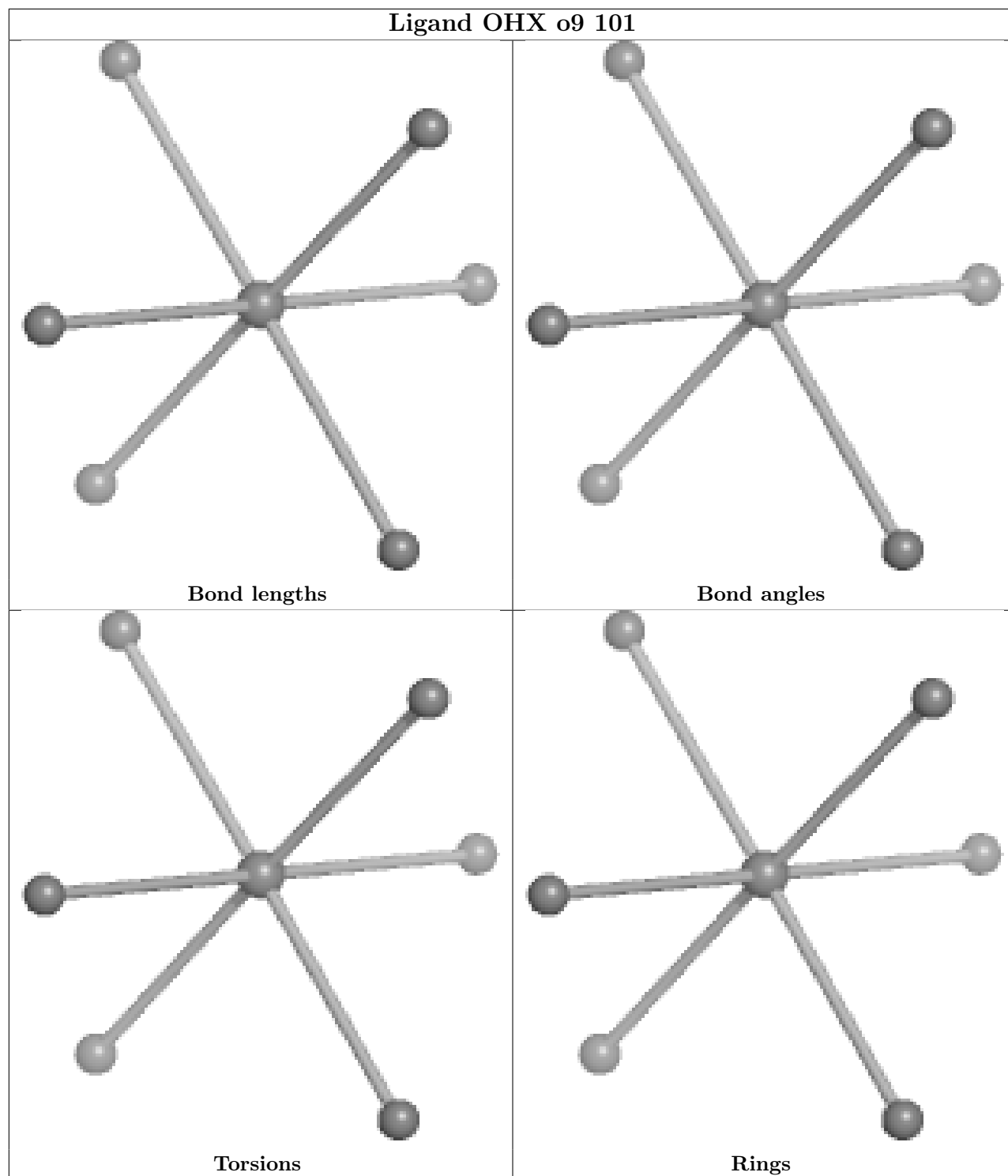


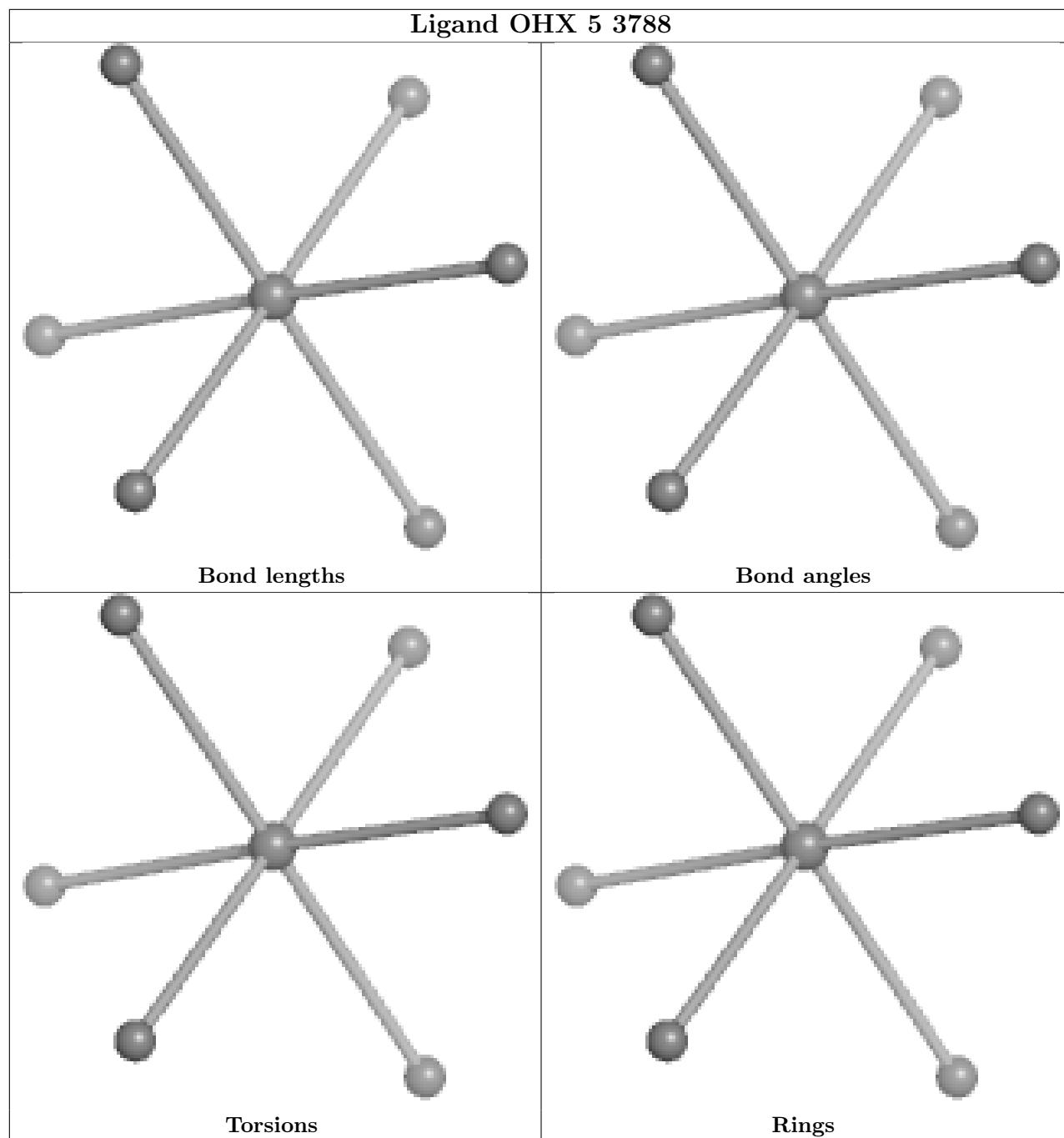
Ligand OHX 4 214

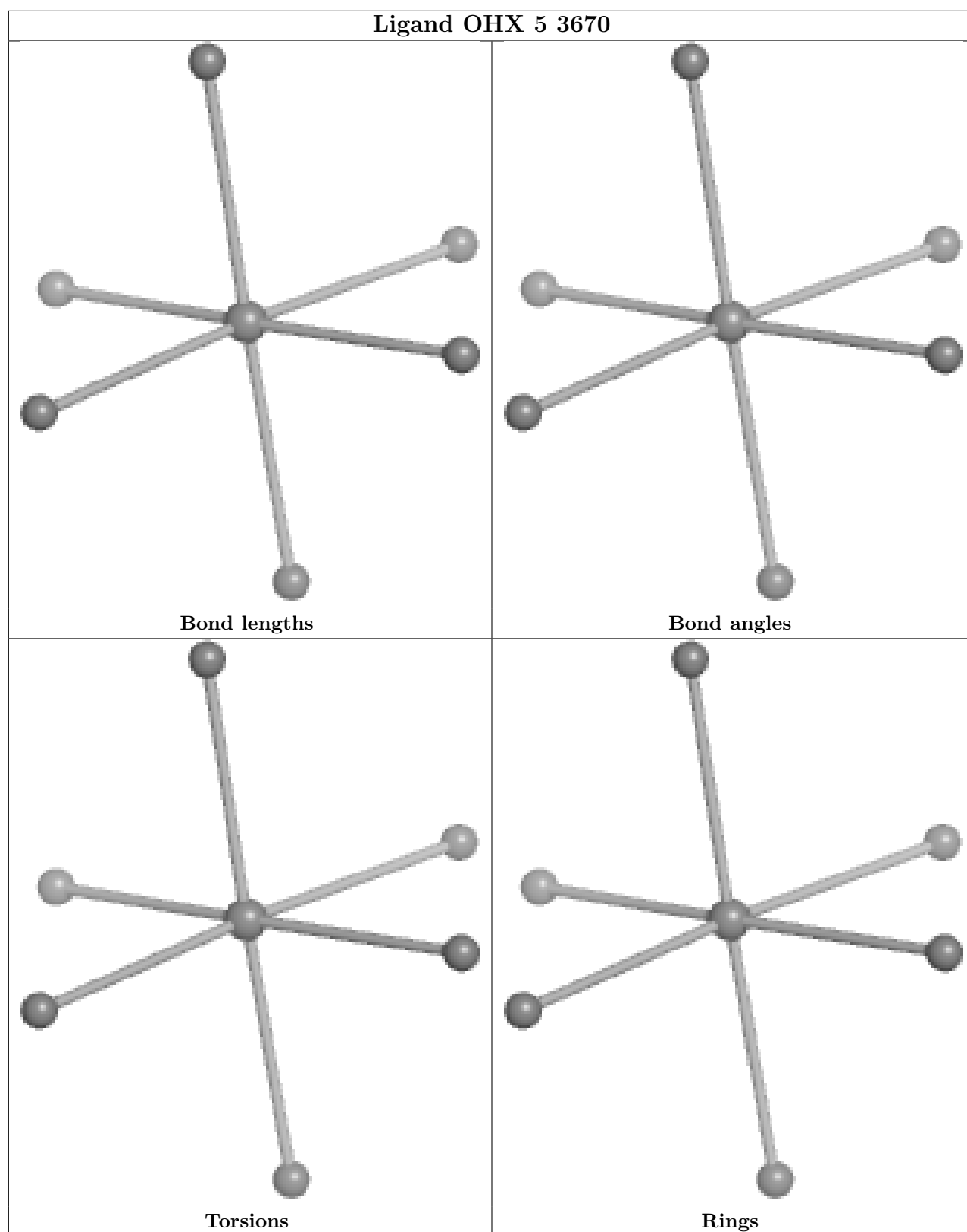


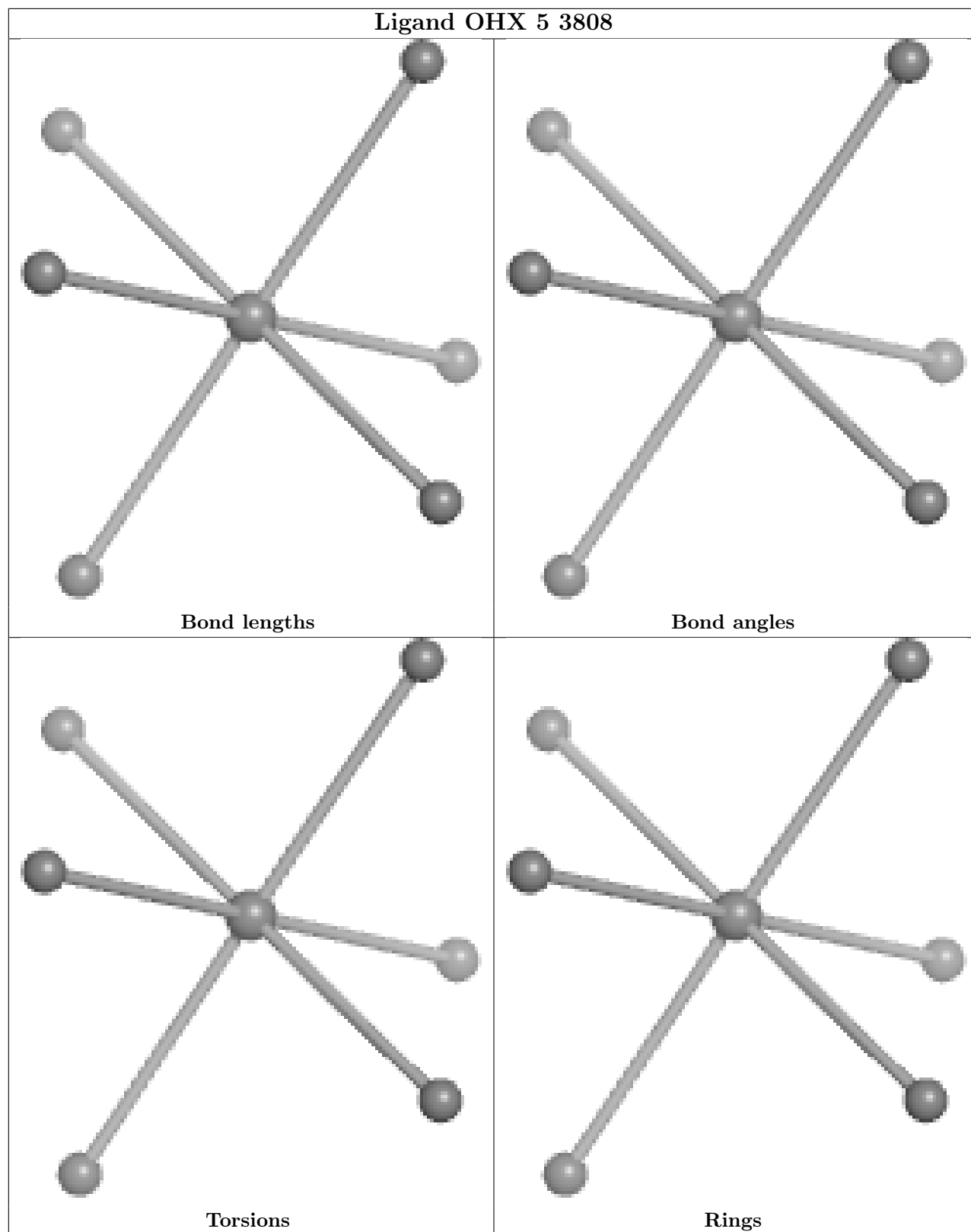


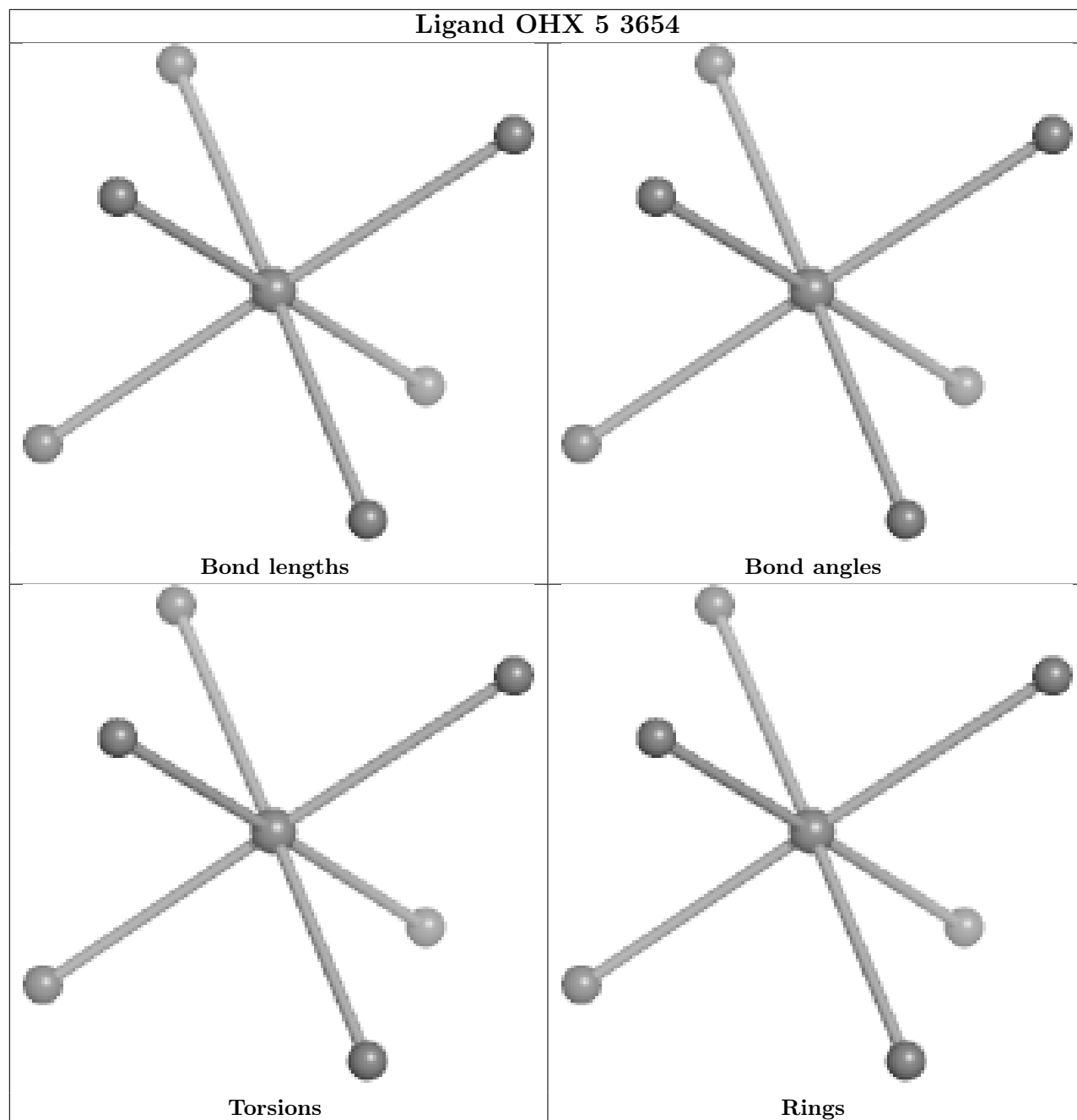


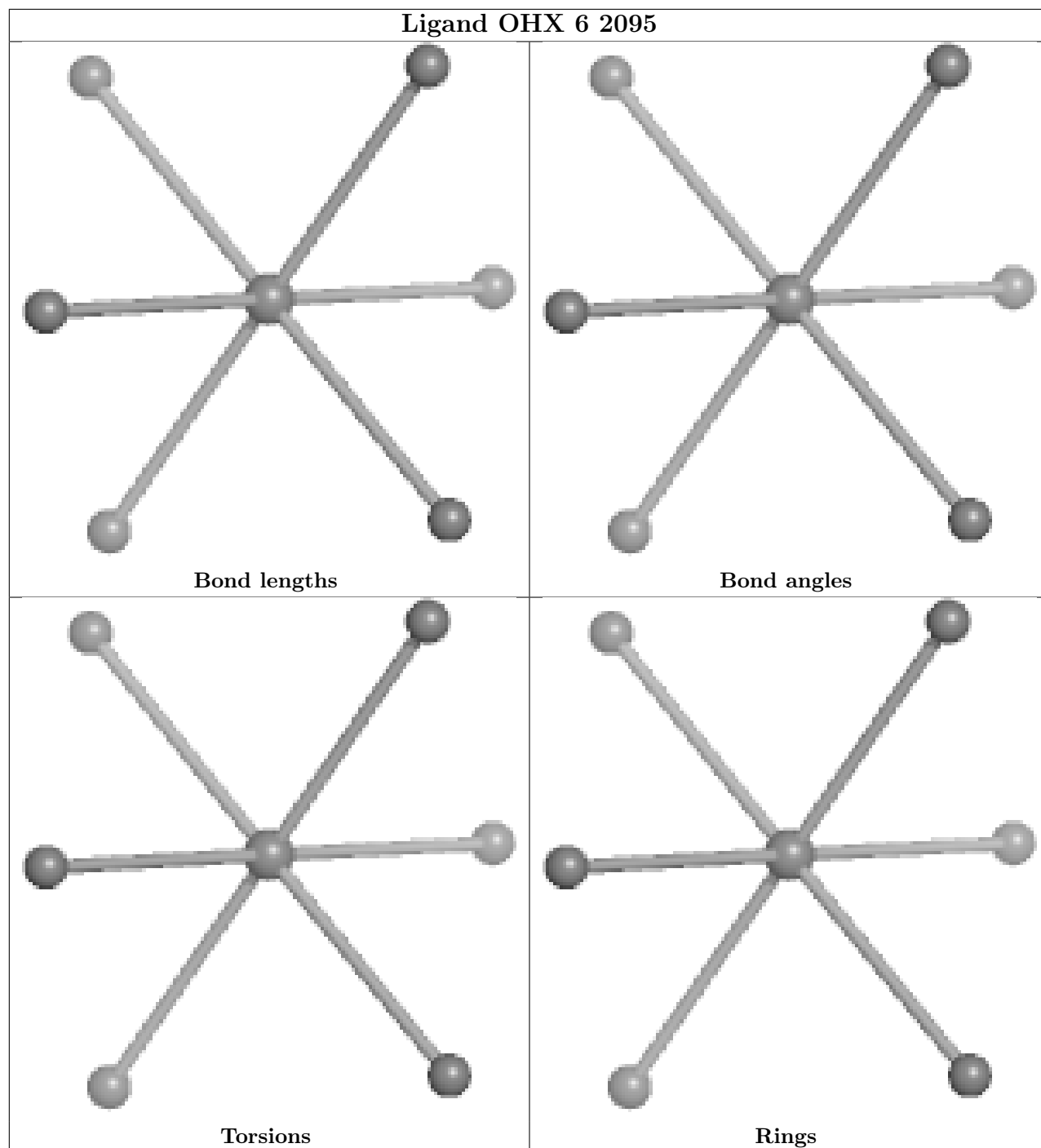


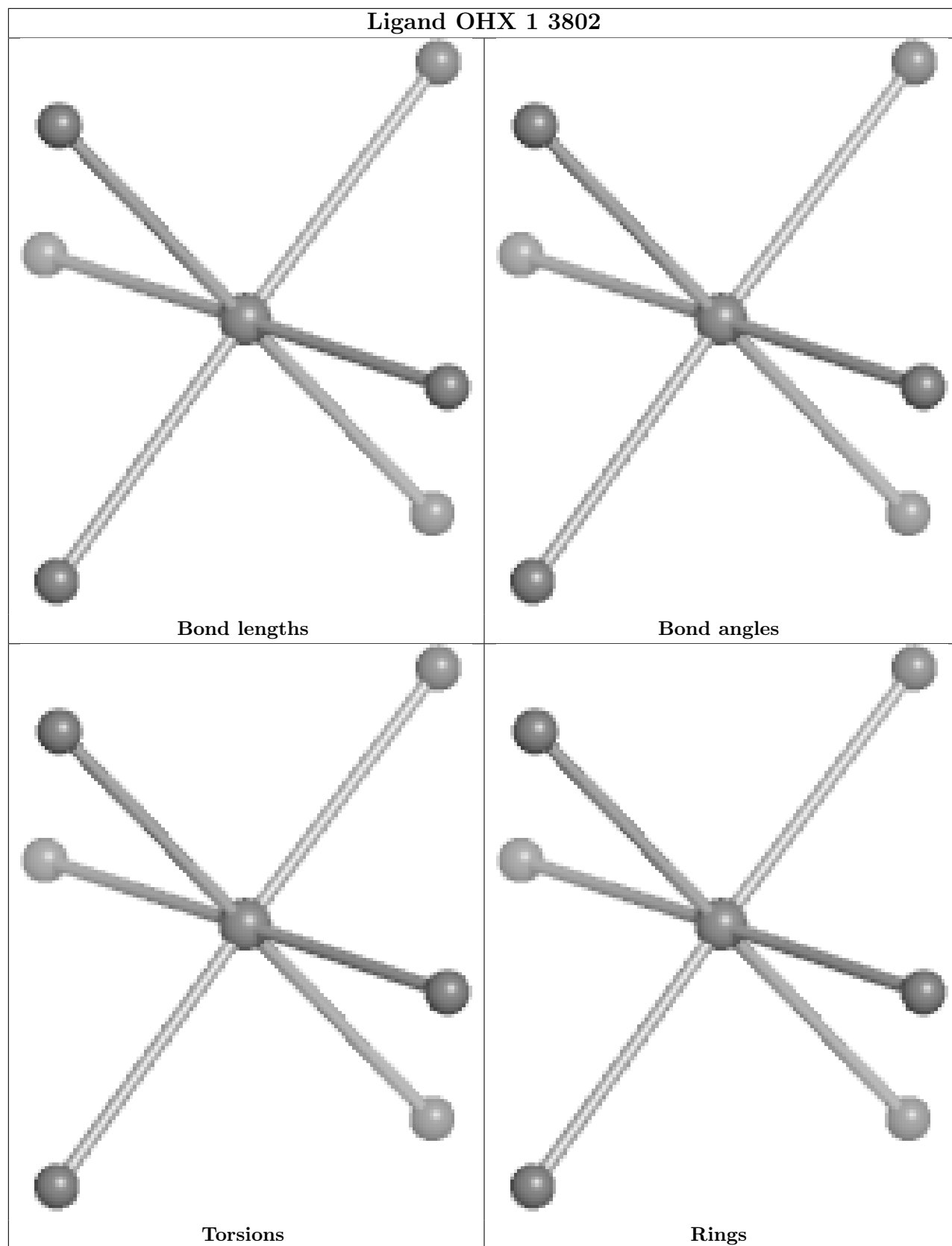




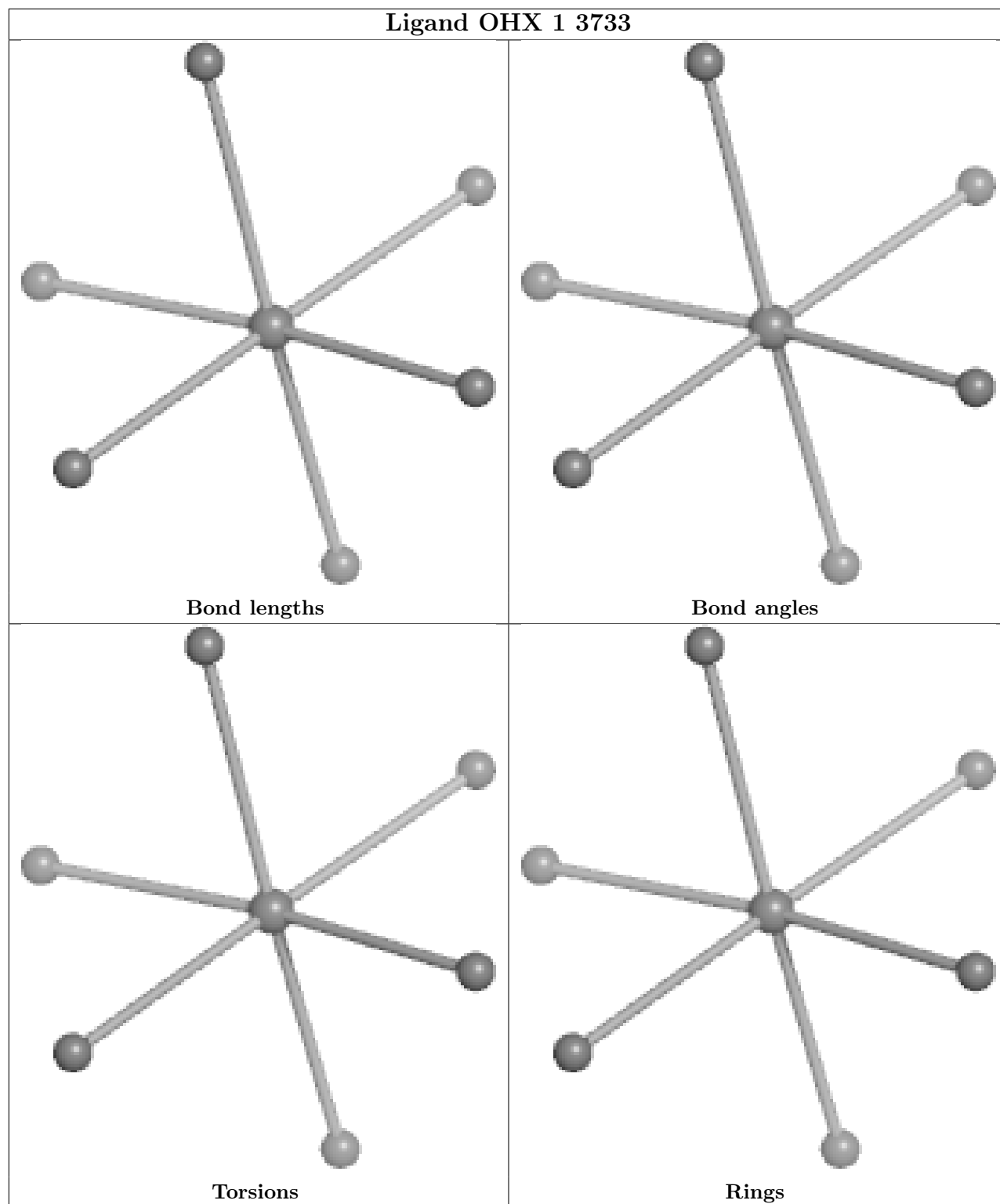


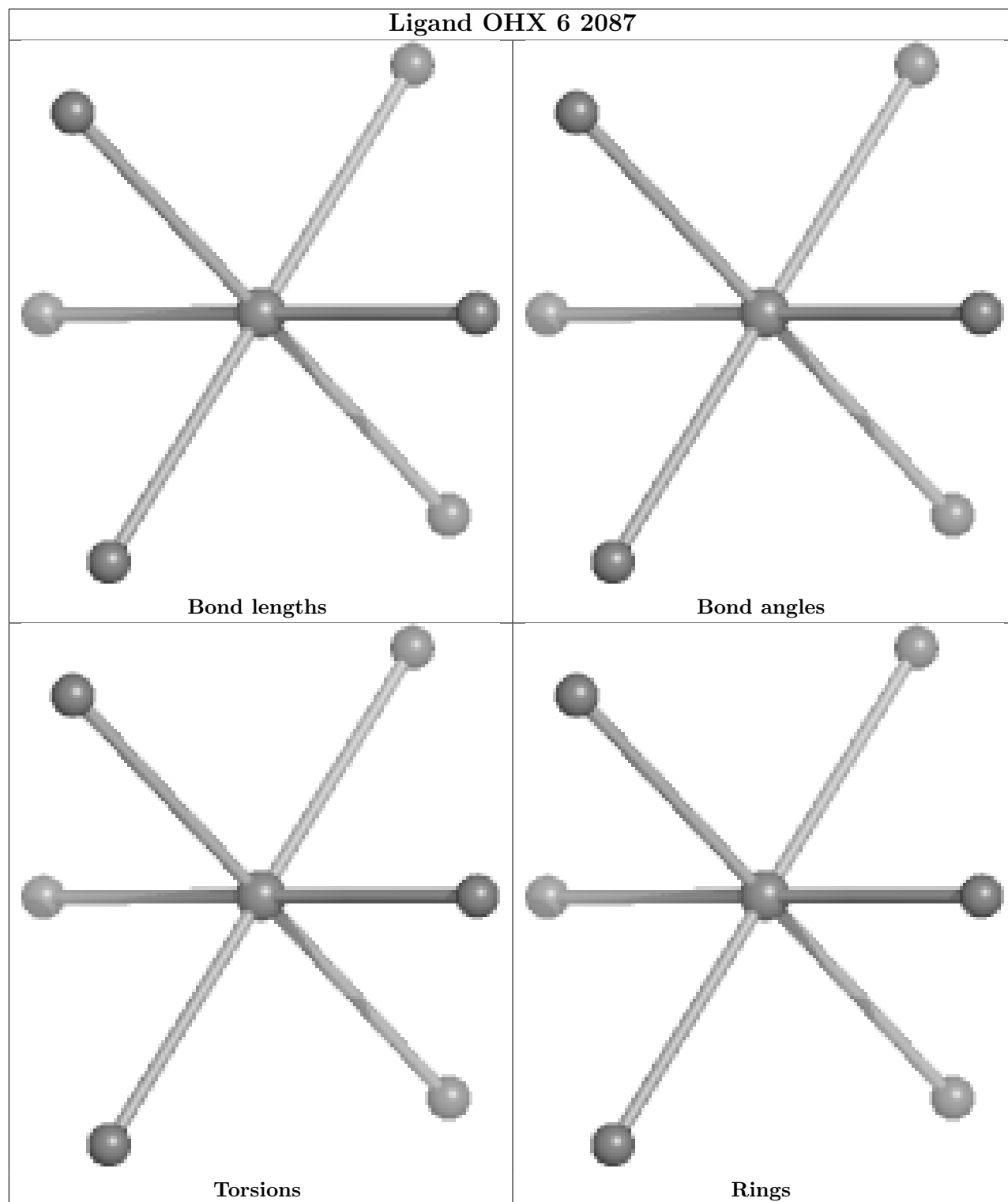




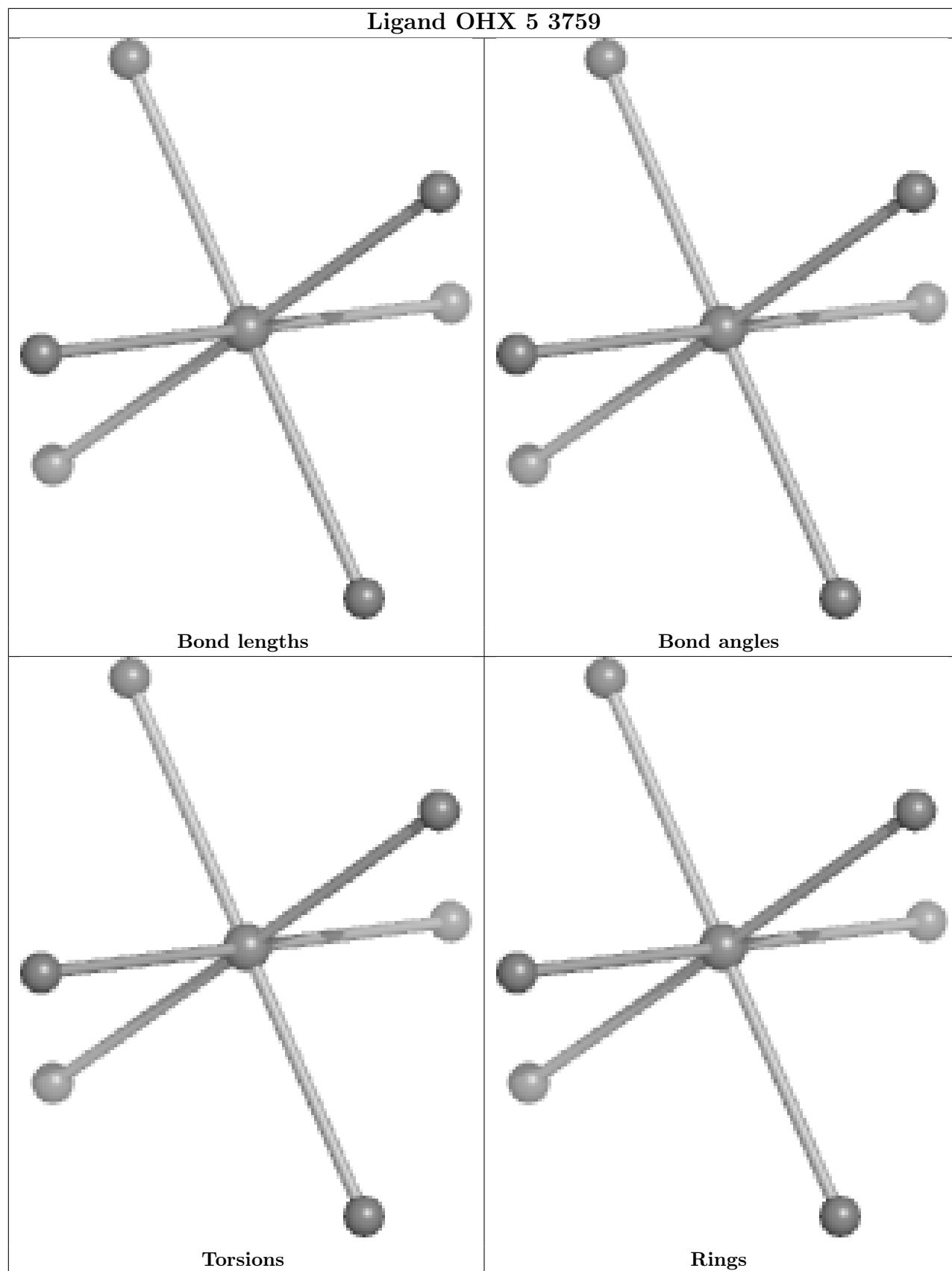


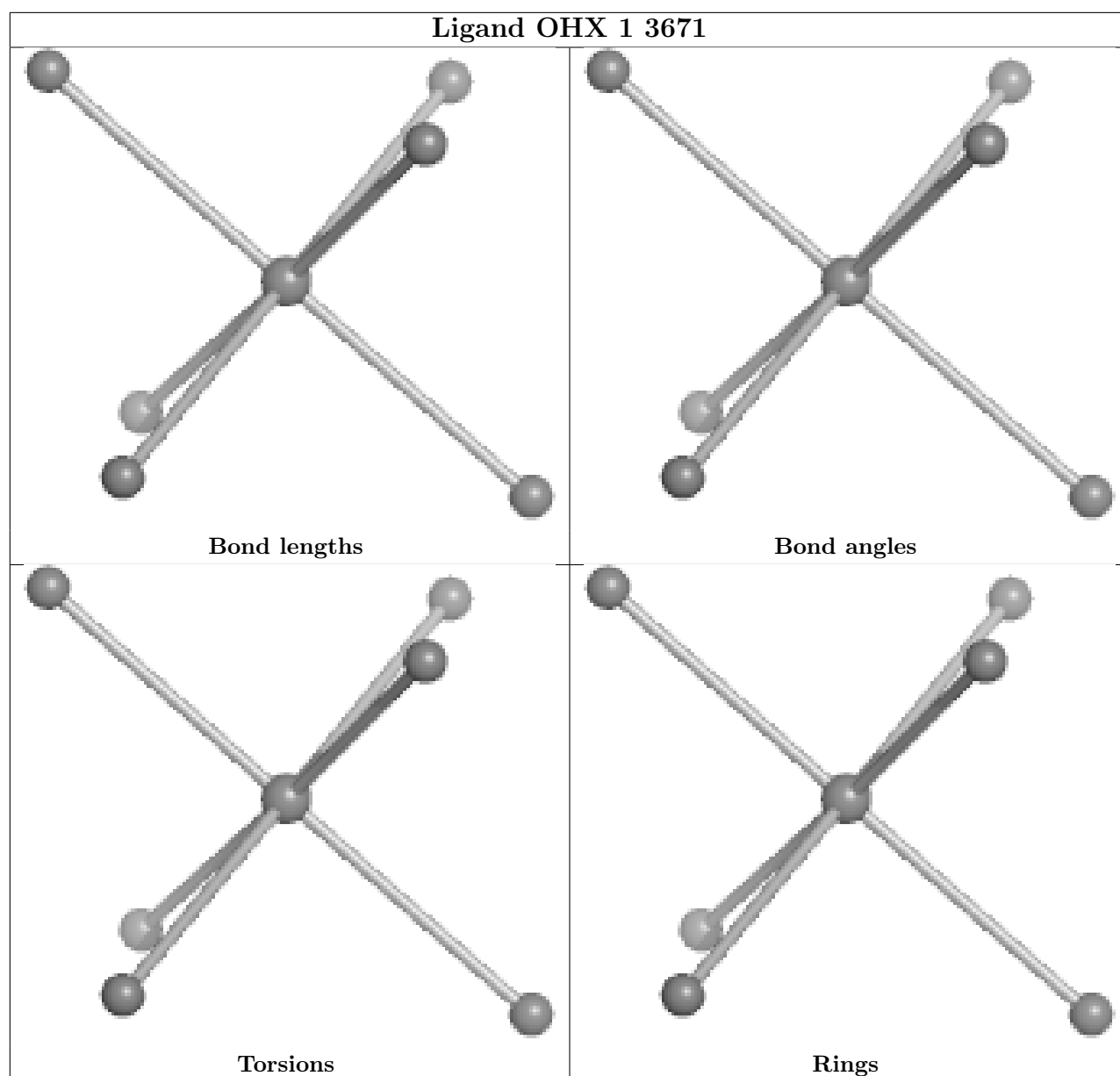
Ligand OHX 1 3733





Ligand OHX 5 3759





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
82	sM	2
83	m2	2
1	2	1

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Mol	Chain	Number of breaks
35	SM	1
81	c0	1
2	S0	1
47	m0	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1798:U	O3'	1799:C	P	144.70
1	sM	85:SER	C	119:UNK	N	44.14
1	sM	139:UNK	C	155:UNK	N	37.81
1	SM	141:ALA	C	151:UNK	N	26.32
1	c0	84:GLU	C	87:UNK	N	7.55
1	m2	52:UNK	C	54:UNK	N	3.75
1	m2	23:UNK	C	28:UNK	N	3.41
1	S0	95:ALA	C	96:THR	N	1.62
1	m0	92:HIS	C	93:PRO	N	1.08

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	1781/1829 (97%)	-0.05	28 (1%) 70 57	38, 90, 174, 223	1 (0%)
2	S0	206/206 (100%)	0.47	8 (3%) 44 33	91, 107, 116, 121	0
2	s0	206/206 (100%)	0.27	5 (2%) 59 44	68, 84, 96, 105	0
3	S1	214/216 (99%)	0.58	13 (6%) 28 23	104, 134, 158, 165	0
3	s1	216/216 (100%)	0.02	3 (1%) 73 60	72, 84, 102, 115	0
4	S2	217/217 (100%)	0.44	6 (2%) 55 40	75, 86, 98, 108	0
4	s2	217/217 (100%)	0.10	6 (2%) 55 40	55, 68, 78, 87	0
5	S3	223/223 (100%)	0.36	3 (1%) 74 61	82, 93, 112, 124	0
5	s3	223/223 (100%)	0.34	5 (2%) 62 47	74, 99, 116, 124	0
6	S4	260/260 (100%)	0.32	2 (0%) 82 72	69, 91, 98, 119	0
6	s4	260/260 (100%)	-0.01	0 100 100	47, 69, 82, 106	0
7	S5	206/206 (100%)	0.69	16 (7%) 20 18	96, 112, 124, 132	0
7	s5	206/206 (100%)	0.40	9 (4%) 39 30	79, 97, 113, 121	0
8	S6	226/226 (100%)	0.74	19 (8%) 18 17	72, 106, 120, 125	0
8	s6	218/226 (96%)	0.22	11 (5%) 35 28	49, 77, 94, 110	0
9	S7	184/186 (98%)	0.51	7 (3%) 44 33	90, 114, 139, 144	0
9	s7	186/186 (100%)	0.27	7 (3%) 44 33	65, 96, 124, 132	0
10	S8	188/199 (94%)	0.20	2 (1%) 77 66	63, 79, 113, 125	0
10	s8	188/199 (94%)	0.25	6 (3%) 50 37	46, 66, 107, 124	0
11	S9	185/185 (100%)	0.34	1 (0%) 87 80	81, 95, 126, 141	0
11	s9	185/185 (100%)	0.17	4 (2%) 62 47	57, 74, 104, 122	0
12	C0	96/96 (100%)	0.54	6 (6%) 27 22	84, 105, 126, 135	0
13	C1	155/155 (100%)	0.39	11 (7%) 23 20	64, 76, 112, 121	0
13	c1	146/155 (94%)	0.32	9 (6%) 28 22	48, 61, 89, 110	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
14	C2	124/124 (100%)	0.59	8 (6%) 26 21	133, 139, 151, 157	0
14	c2	124/124 (100%)	0.91	17 (13%) 8 8	167, 183, 195, 200	0
15	C3	150/150 (100%)	0.34	6 (4%) 43 32	75, 88, 104, 108	0
15	c3	150/150 (100%)	0.02	2 (1%) 74 61	57, 70, 86, 88	0
16	C4	127/128 (99%)	0.68	7 (5%) 32 25	75, 129, 142, 144	0
16	c4	128/128 (100%)	0.16	2 (1%) 70 57	54, 86, 94, 104	0
17	C5	124/135 (91%)	0.32	4 (3%) 50 37	79, 94, 110, 126	0
17	c5	135/135 (100%)	0.33	7 (5%) 34 27	67, 97, 112, 115	0
18	C6	141/142 (99%)	0.63	6 (4%) 40 30	82, 102, 107, 110	0
18	c6	142/142 (100%)	0.53	11 (7%) 21 18	73, 91, 104, 121	0
19	C7	120/125 (96%)	0.40	2 (1%) 69 55	91, 105, 124, 126	0
19	c7	117/125 (93%)	0.33	3 (2%) 57 42	78, 91, 105, 112	0
20	C8	145/145 (100%)	0.33	2 (1%) 73 60	77, 97, 120, 127	0
20	c8	145/145 (100%)	0.28	7 (4%) 36 28	73, 89, 109, 114	0
21	C9	143/143 (100%)	0.52	5 (3%) 47 35	85, 99, 111, 120	0
21	c9	143/143 (100%)	0.15	4 (2%) 55 40	76, 85, 99, 107	0
22	D0	107/110 (97%)	0.76	10 (9%) 16 15	77, 105, 124, 127	0
22	d0	110/110 (100%)	0.52	3 (2%) 56 41	74, 102, 127, 134	0
23	D1	87/87 (100%)	0.28	2 (2%) 61 46	87, 95, 109, 115	0
23	d1	87/87 (100%)	-0.01	0 100 100	65, 73, 93, 100	0
24	D2	129/129 (100%)	0.38	3 (2%) 61 46	73, 84, 90, 100	0
24	d2	129/129 (100%)	-0.20	0 100 100	53, 61, 68, 76	0
25	D3	144/144 (100%)	0.26	9 (6%) 27 22	64, 71, 83, 97	0
25	d3	144/144 (100%)	0.15	5 (3%) 47 35	45, 52, 62, 77	0
26	D4	134/134 (100%)	0.27	1 (0%) 84 75	81, 102, 113, 118	0
26	d4	134/134 (100%)	0.12	2 (1%) 71 58	56, 76, 87, 91	0
27	D5	70/70 (100%)	0.31	1 (1%) 73 60	108, 118, 124, 125	0
27	d5	69/70 (98%)	0.24	1 (1%) 73 60	89, 104, 111, 113	0
28	D6	97/97 (100%)	1.02	16 (16%) 5 5	79, 94, 142, 143	0
28	d6	97/97 (100%)	0.28	2 (2%) 63 48	58, 72, 97, 100	0
29	D7	81/81 (100%)	0.55	2 (2%) 58 43	90, 106, 133, 136	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	d7	81/81 (100%)	0.21	2 (2%) 58 43	66, 83, 117, 120	0
30	D8	63/63 (100%)	0.92	9 (14%) 7 7	106, 122, 129, 131	0
30	d8	63/63 (100%)	0.44	1 (1%) 70 57	96, 110, 117, 119	0
31	D9	53/53 (100%)	0.24	1 (1%) 66 51	75, 80, 100, 104	0
31	d9	53/53 (100%)	0.14	0 100 100	71, 83, 117, 130	0
32	E0	60/62 (96%)	0.45	2 (3%) 49 36	70, 100, 125, 128	0
32	e0	62/62 (100%)	0.11	2 (3%) 50 37	55, 79, 104, 105	0
33	E1	71/76 (93%)	0.47	4 (5%) 31 25	96, 129, 140, 142	0
33	e1	76/76 (100%)	0.92	10 (13%) 8 8	100, 155, 176, 178	0
34	SR	318/318 (100%)	0.39	10 (3%) 51 38	100, 111, 126, 148	0
34	sR	318/318 (100%)	0.62	20 (6%) 27 22	96, 110, 122, 137	0
35	SM	133/159 (83%)	0.68	13 (9%) 14 14	54, 86, 117, 122	0
36	1	3149/3394 (92%)	-0.42	19 (0%) 85 78	30, 54, 125, 221	0
36	5	3150/3394 (92%)	-0.50	16 (0%) 87 80	31, 50, 117, 193	0
37	3	121/121 (100%)	-0.47	0 100 100	40, 70, 86, 94	0
37	7	121/121 (100%)	-0.71	1 (0%) 82 72	35, 53, 64, 71	0
38	4	158/158 (100%)	-0.53	0 100 100	40, 60, 96, 129	0
38	8	158/158 (100%)	-0.45	1 (0%) 85 78	42, 64, 97, 126	0
39	L2	252/252 (100%)	0.04	4 (1%) 70 57	40, 57, 74, 83	0
39	l2	252/252 (100%)	-0.06	3 (1%) 76 64	38, 56, 74, 87	0
40	L3	386/386 (100%)	-0.07	4 (1%) 79 68	38, 57, 69, 83	0
40	l3	386/386 (100%)	-0.20	10 (2%) 57 42	30, 42, 56, 76	0
41	L4	361/361 (100%)	-0.25	2 (0%) 85 78	34, 48, 63, 70	0
41	l4	361/361 (100%)	-0.24	1 (0%) 90 85	37, 52, 70, 76	0
42	L5	296/296 (100%)	0.13	3 (1%) 79 68	51, 76, 94, 108	0
42	l5	294/296 (99%)	-0.21	1 (0%) 90 85	42, 54, 75, 94	0
43	L6	156/175 (89%)	-0.22	1 (0%) 85 78	44, 53, 66, 77	0
43	l6	157/175 (89%)	-0.30	0 100 100	44, 54, 71, 83	0
44	L7	222/223 (99%)	-0.30	1 (0%) 87 80	35, 45, 70, 99	0
44	l7	223/223 (100%)	-0.26	0 100 100	35, 43, 74, 102	0
45	L8	233/233 (100%)	0.27	2 (0%) 81 70	65, 83, 108, 116	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
45	l8	231/233 (99%)	0.26	6 (2%) 57 42	72, 87, 109, 112	0
46	L9	191/191 (100%)	0.01	3 (1%) 70 57	57, 65, 74, 85	0
46	l9	191/191 (100%)	-0.34	0 100 100	39, 48, 63, 72	0
47	M0	211/220 (95%)	-0.04	2 (0%) 81 70	41, 54, 88, 102	0
47	m0	213/220 (96%)	-0.05	4 (1%) 66 51	36, 50, 74, 87	0
48	M1	169/169 (100%)	0.06	3 (1%) 67 53	62, 77, 87, 93	0
48	m1	169/169 (100%)	-0.22	0 100 100	45, 61, 68, 72	0
49	M3	193/194 (99%)	-0.16	2 (1%) 79 68	35, 58, 94, 119	0
49	m3	194/194 (100%)	-0.02	2 (1%) 79 68	38, 67, 100, 109	0
50	M4	136/137 (99%)	-0.15	4 (2%) 54 40	50, 59, 70, 74	0
50	m4	137/137 (100%)	-0.29	2 (1%) 71 58	44, 50, 66, 72	0
51	M5	203/203 (100%)	0.00	2 (0%) 79 68	38, 55, 66, 68	0
51	m5	203/203 (100%)	0.10	2 (0%) 79 68	42, 61, 73, 76	0
52	M6	197/197 (100%)	-0.10	2 (1%) 79 68	38, 45, 63, 65	0
52	m6	197/197 (100%)	-0.19	2 (1%) 79 68	31, 37, 63, 68	0
53	M7	183/183 (100%)	0.02	7 (3%) 44 33	41, 47, 96, 121	0
53	m7	155/183 (84%)	-0.32	0 100 100	37, 42, 52, 70	0
54	M8	185/185 (100%)	-0.22	2 (1%) 77 66	37, 48, 61, 75	0
54	m8	185/185 (100%)	-0.18	0 100 100	37, 52, 62, 69	0
55	M9	188/188 (100%)	0.26	9 (4%) 36 28	61, 73, 137, 144	0
55	m9	188/188 (100%)	0.01	2 (1%) 77 66	49, 63, 121, 132	0
56	N0	172/172 (100%)	0.06	2 (1%) 76 64	46, 54, 65, 73	0
56	n0	172/172 (100%)	-0.36	0 100 100	38, 45, 55, 63	0
57	N1	159/159 (100%)	-0.08	5 (3%) 51 38	37, 51, 92, 98	0
57	n1	159/159 (100%)	-0.09	1 (0%) 85 78	36, 44, 78, 83	0
58	N2	100/100 (100%)	0.33	2 (2%) 64 50	92, 102, 107, 115	0
58	n2	98/100 (98%)	0.13	1 (1%) 79 68	74, 85, 91, 93	0
59	N3	136/136 (100%)	-0.08	0 100 100	44, 54, 64, 69	0
59	n3	136/136 (100%)	-0.22	1 (0%) 84 75	31, 38, 47, 50	0
60	N4	98/135 (72%)	0.68	11 (11%) 11 11	55, 67, 134, 136	0
60	n4	135/135 (100%)	0.40	8 (5%) 29 24	39, 83, 109, 125	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
61	N5	121/121 (100%)	0.05	2 (1%) 69 55	57, 69, 85, 106	0
61	n5	120/121 (99%)	0.04	0 100 100	56, 69, 87, 93	0
62	N6	126/126 (100%)	-0.08	1 (0%) 82 72	44, 61, 70, 79	0
62	n6	126/126 (100%)	-0.09	0 100 100	50, 66, 80, 83	0
63	N7	135/135 (100%)	0.22	1 (0%) 84 75	83, 96, 107, 111	0
63	n7	135/135 (100%)	0.23	0 100 100	82, 96, 113, 117	0
64	N8	148/148 (100%)	-0.27	1 (0%) 84 75	31, 49, 67, 75	0
64	n8	148/148 (100%)	-0.13	1 (0%) 84 75	33, 54, 68, 71	0
65	N9	58/58 (100%)	-0.06	1 (1%) 69 55	34, 54, 89, 101	0
65	n9	58/58 (100%)	0.07	2 (3%) 48 35	35, 52, 73, 77	0
66	O0	97/100 (97%)	0.13	4 (4%) 42 31	80, 88, 103, 106	0
66	o0	100/100 (100%)	0.10	1 (1%) 79 68	72, 83, 100, 103	0
67	O1	109/109 (100%)	0.20	2 (1%) 67 53	55, 65, 88, 92	0
67	o1	109/109 (100%)	-0.17	0 100 100	43, 53, 80, 96	0
68	O2	127/127 (100%)	-0.24	1 (0%) 82 72	33, 44, 55, 67	0
68	o2	127/127 (100%)	-0.24	0 100 100	34, 49, 59, 64	0
69	O3	106/106 (100%)	-0.18	0 100 100	37, 45, 66, 74	0
69	o3	106/106 (100%)	-0.25	0 100 100	36, 42, 64, 74	0
70	O4	112/112 (100%)	0.44	6 (5%) 32 26	54, 74, 103, 109	0
70	o4	112/112 (100%)	0.45	6 (5%) 32 26	51, 73, 105, 111	0
71	O5	119/119 (100%)	0.10	2 (1%) 69 55	55, 70, 77, 80	0
71	o5	119/119 (100%)	0.10	1 (0%) 82 72	63, 71, 86, 95	0
72	O6	99/99 (100%)	-0.09	2 (2%) 64 50	55, 67, 92, 100	0
72	o6	99/99 (100%)	-0.11	1 (1%) 79 68	61, 72, 86, 99	0
73	O7	87/87 (100%)	-0.10	1 (1%) 77 66	41, 46, 67, 75	0
73	o7	87/87 (100%)	-0.06	1 (1%) 77 66	37, 49, 77, 91	0
74	O8	77/77 (100%)	0.21	1 (1%) 74 61	82, 92, 103, 106	0
74	o8	77/77 (100%)	0.11	0 100 100	81, 89, 97, 99	0
75	O9	50/50 (100%)	0.05	0 100 100	47, 55, 57, 57	0
75	o9	50/50 (100%)	0.03	0 100 100	48, 55, 60, 62	0
76	Q0	52/52 (100%)	-0.13	0 100 100	49, 53, 65, 70	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
76	q0	52/52 (100%)	-0.55	0	100	100	36, 40, 49, 54	0
77	Q1	25/25 (100%)	0.33	0	100	100	57, 62, 66, 66	0
77	q1	25/25 (100%)	-0.20	0	100	100	45, 47, 48, 50	0
78	Q2	105/105 (100%)	-0.25	0	100	100	41, 51, 72, 93	0
78	q2	105/105 (100%)	-0.32	0	100	100	42, 50, 64, 85	0
79	Q3	91/91 (100%)	0.04	3 (3%)	49	36	46, 59, 74, 81	0
79	q3	91/91 (100%)	-0.03	1 (1%)	77	66	42, 55, 67, 73	0
80	6	1795/1800 (99%)	-0.29	22 (1%)	76	64	29, 75, 157, 226	1 (0%)
81	c0	84/96 (87%)	0.72	7 (8%)	19	17	94, 126, 139, 141	0
82	sM	63/104 (60%)	0.41	4 (6%)	27	22	47, 97, 105, 110	0
83	m2	0/150	-	-	-	-	-	-
84	p0	143/219 (65%)	0.44	6 (4%)	41	31	88, 109, 177, 181	0
85	p1	0/47	-	-	-	-	-	-
85	p2	0/47	-	-	-	-	-	-
86	A	2/3 (66%)	1.11	0	100	100	85, 85, 85, 89	0
86	B	2/3 (66%)	0.39	0	100	100	78, 78, 78, 83	0
All	All	33019/34173 (96%)	-0.02	648 (1%)	64	50	29, 69, 125, 226	2 (0%)

All (648) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	86	SER	8.2
13	c1	3	THR	8.1
8	s6	162	VAL	6.5
7	s5	37	GLN	5.9
53	M7	161	ALA	5.8
8	S6	77	LEU	5.6
60	N4	88	ASP	5.5
22	d0	64	LYS	5.5
81	c0	84	GLU	5.3
53	M7	160	ALA	5.2
8	S6	80	ASN	5.2
33	e1	80	ARG	5.1
28	D6	8	ASN	5.1
29	d7	24	LEU	5.1
7	S5	37	GLN	5.0
7	S5	70	VAL	4.9

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Mol	Chain	Res	Type	RSRZ
60	N4	84	GLY	4.9
34	sR	141	LEU	4.7
56	N0	1	MET	4.6
60	N4	89	LEU	4.5
10	s8	61	GLU	4.4
34	sR	139	GLN	4.3
60	N4	90	ILE	4.3
60	N4	75	THR	4.3
4	s2	92	ALA	4.2
35	SM	85	SER	4.1
35	SM	16	ASP	4.1
12	C0	96	ASN	4.1
4	s2	90	THR	4.1
35	SM	58	GLU	4.0
2	s0	46	HIS	4.0
82	sM	82	THR	4.0
1	2	1815	A	3.9
30	D8	53	ILE	3.9
35	SM	87	THR	3.9
8	s6	169	TYR	3.9
25	d3	11	SER	3.9
1	2	1806	A	3.9
11	s9	148	VAL	3.9
81	c0	25	LYS	3.9
9	S7	105	THR	3.9
22	d0	67	THR	3.8
81	c0	64	TYR	3.8
80	6	659	C	3.8
13	c1	4	GLU	3.8
8	S6	75	LEU	3.8
1	2	1809	G	3.8
25	D3	28	ASN	3.8
5	s3	11	LEU	3.8
22	D0	82	TYR	3.8
80	6	678	A	3.7
60	N4	85	ALA	3.7
18	c6	2	SER	3.7
36	1	1570	U	3.7
40	l3	245	GLY	3.7
60	n4	84	GLY	3.7
19	C7	110	VAL	3.7
1	2	1756[A]	A	3.7

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Mol	Chain	Res	Type	RSRZ
9	S7	98	ILE	3.7
1	2	1812	G	3.7
42	L5	151	GLN	3.6
19	c7	90	ALA	3.6
1	2	1370	U	3.6
36	5	1582	C	3.6
60	N4	87	LEU	3.6
26	d4	99	LYS	3.6
61	N5	23	ALA	3.6
1	2	506	A	3.6
35	SM	84	LYS	3.6
14	c2	32	LEU	3.6
1	2	1807	A	3.5
12	C0	23	ALA	3.5
53	M7	162	GLU	3.5
7	S5	41	LYS	3.5
45	l8	124	ASP	3.5
7	S5	71	ALA	3.5
24	D2	92	ASN	3.5
28	D6	86	VAL	3.5
28	D6	85	ARG	3.5
36	1	3275	U	3.5
82	sM	83	LYS	3.4
55	M9	50	ILE	3.4
8	S6	78	THR	3.4
30	D8	43	ASN	3.4
10	S8	152	ILE	3.4
8	S6	79	LYS	3.4
68	O2	127	ALA	3.4
79	q3	2	ALA	3.4
28	D6	58	VAL	3.4
7	S5	152	GLY	3.4
13	C1	68	GLY	3.4
1	2	1808	G	3.4
33	E1	87	THR	3.4
25	D3	21	ASN	3.4
13	C1	145	ALA	3.4
13	c1	116	ARG	3.4
55	M9	72	GLU	3.3
6	S4	54	TYR	3.3
60	N4	83	THR	3.3
18	C6	39	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
25	d3	64	PRO	3.3
40	l3	146	ARG	3.3
8	S6	73	ILE	3.3
34	SR	96	THR	3.3
40	L3	387	LEU	3.3
36	1	1349	G	3.3
17	c5	9	LYS	3.3
8	S6	145	PHE	3.3
8	S6	148	SER	3.3
1	2	1811	G	3.3
14	C2	59	LEU	3.3
70	o4	57	LEU	3.3
25	D3	27	ASN	3.2
18	c6	46	PHE	3.2
22	D0	103	ILE	3.2
9	S7	146	GLY	3.2
12	C0	89	GLY	3.2
8	s6	166	GLU	3.2
1	2	1810	G	3.2
48	M1	96	PHE	3.2
80	6	794	U	3.2
70	o4	58	ARG	3.2
14	c2	45	LEU	3.2
18	c6	44	LEU	3.2
57	N1	160	ILE	3.2
18	c6	49	TYR	3.1
62	N6	127	GLU	3.1
1	2	793	A	3.1
3	s1	89	ASP	3.1
33	e1	78	LYS	3.1
53	M7	157	VAL	3.1
70	O4	23	VAL	3.1
73	o7	88	ALA	3.1
14	c2	126	TRP	3.1
36	1	1581	C	3.1
34	sR	295	SER	3.1
36	1	3079	U	3.1
60	n4	95	SER	3.1
34	sR	121	MET	3.1
2	s0	146	LEU	3.1
21	C9	80	TYR	3.1
35	SM	86	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
30	D8	44	VAL	3.1
22	D0	61	LYS	3.0
52	m6	66	LYS	3.0
36	5	3275	U	3.0
3	S1	114	VAL	3.0
14	c2	59	LEU	3.0
7	s5	154	ALA	3.0
45	l8	121	SER	3.0
22	D0	107	THR	3.0
55	M9	51	VAL	3.0
40	l3	178	LEU	3.0
24	D2	34	ILE	3.0
73	O7	88	ALA	3.0
12	C0	24	LYS	3.0
65	n9	25	LYS	3.0
9	s7	3	ALA	3.0
71	O5	120	ALA	3.0
36	1	1569	U	3.0
36	5	3079	U	3.0
71	O5	75	TYR	3.0
54	M8	156	GLY	3.0
28	D6	9	GLY	3.0
2	S0	158	VAL	3.0
8	S6	68	LEU	3.0
13	c1	5	LEU	3.0
79	Q3	71	VAL	3.0
53	M7	184	ALA	3.0
17	C5	104	GLN	2.9
64	N8	30	GLY	2.9
14	c2	123	VAL	2.9
20	c8	3	LEU	2.9
1	2	1821	U	2.9
13	c1	144	ALA	2.9
19	c7	96	SER	2.9
3	S1	92	GLN	2.9
15	C3	5	HIS	2.9
21	c9	55	TYR	2.9
8	s6	155	ASP	2.9
21	C9	71	VAL	2.9
84	p0	188	VAL	2.9
8	s6	156	PHE	2.9
9	s7	103	SER	2.9

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Mol	Chain	Res	Type	RSRZ
80	6	662	U	2.9
20	c8	116	LEU	2.9
36	5	443	G	2.9
45	l8	246	MET	2.9
16	C4	67	VAL	2.9
15	c3	40	TYR	2.9
28	D6	6	ALA	2.9
1	2	1410	A	2.9
60	N4	82	ILE	2.9
6	S4	110	ALA	2.8
36	5	1349	G	2.8
20	c8	18	LEU	2.8
7	s5	33	VAL	2.8
28	D6	18	VAL	2.8
3	S1	53	GLY	2.8
82	sM	25	ILE	2.8
42	l5	263	GLU	2.8
79	Q3	92	ALA	2.8
80	6	679	U	2.8
80	6	1491	U	2.8
36	1	1571	A	2.8
36	5	2971	A	2.8
28	D6	53	LEU	2.8
17	c5	86	VAL	2.8
60	N4	76	VAL	2.8
55	M9	59	SER	2.8
65	N9	25	LYS	2.8
4	s2	96	THR	2.8
25	D3	2	GLY	2.8
14	C2	82	PRO	2.8
40	L3	237	LYS	2.8
45	l8	109	LEU	2.8
28	D6	84	VAL	2.8
36	5	1567	U	2.8
1	2	1799	C	2.8
36	1	1563	C	2.8
55	M9	85	ARG	2.8
56	N0	2	ALA	2.8
84	p0	192	ASP	2.8
81	c0	81	ASN	2.8
28	D6	3	LYS	2.8
20	c8	22	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
16	C4	39	ILE	2.8
55	M9	189	ALA	2.7
16	c4	92	LYS	2.7
33	e1	82	LYS	2.7
14	c2	62	LEU	2.7
50	M4	60	LEU	2.7
39	l2	252	THR	2.7
4	S2	62	PRO	2.7
26	d4	106	GLN	2.7
70	o4	81	CYS	2.7
30	D8	28	VAL	2.7
7	S5	147	THR	2.7
52	M6	80	PHE	2.7
74	O8	43	PHE	2.7
50	m4	25	LYS	2.7
30	D8	16	LEU	2.7
3	S1	66	VAL	2.7
64	n8	16	SER	2.7
57	N1	77	ASN	2.7
17	c5	134	THR	2.7
18	c6	124	PRO	2.7
25	d3	3	LYS	2.7
34	SR	161	LYS	2.7
80	6	684	A	2.7
53	M7	183	ALA	2.7
42	L5	146	LEU	2.7
55	M9	184	LEU	2.7
41	l4	65	TRP	2.7
5	S3	186	VAL	2.7
30	D8	55	VAL	2.7
7	S5	154	ALA	2.7
13	C1	91	LEU	2.7
17	c5	4	ALA	2.7
80	6	660	G	2.7
7	S5	153	GLY	2.6
1	2	1059	U	2.6
14	c2	92	ALA	2.6
34	sR	61	PHE	2.6
82	sM	28	SER	2.6
32	E0	49	LEU	2.6
33	E1	103	LEU	2.6
8	S6	81	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
36	5	1569	U	2.6
18	c6	119	ALA	2.6
34	sR	57	PRO	2.6
4	S2	207	LEU	2.6
16	C4	16	VAL	2.6
25	d3	21	ASN	2.6
30	D8	45	LYS	2.6
34	sR	136	ILE	2.6
32	e0	49	LEU	2.6
33	e1	77	GLY	2.6
36	5	3277	U	2.6
10	S8	179	CYS	2.6
15	c3	5	HIS	2.6
11	s9	76	LEU	2.5
37	7	73	C	2.5
7	S5	26	ALA	2.5
20	C8	146	ALA	2.5
2	s0	207	PRO	2.5
28	D6	31	PRO	2.5
25	D3	30	LYS	2.5
36	1	1764	U	2.5
30	D8	21	SER	2.5
34	SR	44	SER	2.5
33	e1	134	ASN	2.5
2	S0	203	PHE	2.5
3	S1	47	LEU	2.5
7	S5	69	PHE	2.5
34	sR	134	TRP	2.5
19	C7	100	LEU	2.5
42	L5	51	LEU	2.5
9	s7	142	TYR	2.5
13	C1	147	GLY	2.5
45	l8	154	ALA	2.5
21	c9	92	LYS	2.5
36	1	1762	C	2.5
80	6	658	C	2.5
21	C9	36	ILE	2.5
34	sR	25	THR	2.5
55	M9	58	HIS	2.5
80	6	1799	U	2.5
2	S0	72	ASP	2.5
36	5	3276	G	2.5

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Mol	Chain	Res	Type	RSRZ
57	N1	101	CYS	2.5
80	6	1228	G	2.5
18	c6	130	GLY	2.5
18	c6	132	LYS	2.5
2	S0	207	PRO	2.5
7	s5	174	LEU	2.5
7	s5	79	ASN	2.5
28	d6	11	ASN	2.5
47	m0	221	ALA	2.5
10	s8	46	VAL	2.5
7	S5	165	LEU	2.5
14	c2	107	ASP	2.5
34	sR	62	LYS	2.5
51	M5	2	GLY	2.5
84	p0	206	ASP	2.5
41	L4	74	ILE	2.4
34	sR	32	LEU	2.4
1	2	656	G	2.4
8	s6	168	THR	2.4
13	C1	3	THR	2.4
71	o5	11	THR	2.4
13	C1	146	ALA	2.4
34	sR	167	VAL	2.4
35	SM	18	VAL	2.4
28	D6	2	PRO	2.4
1	2	1795	U	2.4
9	s7	8	ILE	2.4
35	SM	89	ARG	2.4
40	l3	244	ARG	2.4
8	S6	149	LYS	2.4
79	Q3	15	GLY	2.4
12	C0	13	GLN	2.4
17	C5	89	MET	2.4
39	L2	175	VAL	2.4
72	O6	27	SER	2.4
50	m4	40	ASP	2.4
7	S5	187	ILE	2.4
81	c0	82	LEU	2.4
1	2	1797	A	2.4
80	6	1196	A	2.4
1	2	1362	U	2.4
80	6	1340	U	2.4

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Mol	Chain	Res	Type	RSRZ
36	1	1556	C	2.4
4	S2	149	GLY	2.4
7	S5	150	GLY	2.4
3	s1	200	ALA	2.4
5	s3	150	MET	2.4
55	m9	183	ALA	2.4
3	S1	91	VAL	2.4
28	D6	45	VAL	2.4
66	O0	12	GLN	2.4
45	L8	121	SER	2.4
14	C2	103	LEU	2.4
15	C3	107	LYS	2.4
19	c7	87	GLU	2.4
80	6	1601	G	2.4
1	2	1794	A	2.4
36	5	440	A	2.4
36	1	1568	U	2.4
40	L3	245	GLY	2.4
4	S2	144	TRP	2.4
12	C0	61	TRP	2.4
18	c6	3	ALA	2.4
32	e0	62	VAL	2.4
39	L2	253	GLN	2.4
66	o0	7	GLN	2.4
1	2	1332	C	2.4
30	d8	65	ARG	2.4
10	s8	58	LEU	2.4
34	SR	33	LEU	2.4
39	L2	179	LEU	2.4
61	N5	82	LEU	2.4
27	D5	97	LYS	2.4
2	s0	164	ASN	2.4
2	S0	162	CYS	2.4
15	C3	4	MET	2.4
34	sR	105	GLY	2.4
60	n4	68	ALA	2.4
1	2	1805	G	2.4
16	C4	133	ARG	2.4
36	5	1580	A	2.4
80	6	675	U	2.4
80	6	1756[A]	A	2.4
9	S7	41	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
28	d6	97	PRO	2.3
33	e1	103	LEU	2.3
45	L8	120	LYS	2.3
81	c0	65	TYR	2.3
7	s5	26	ALA	2.3
9	S7	141	ARG	2.3
21	C9	39	THR	2.3
22	D0	27	THR	2.3
8	S6	24	ILE	2.3
13	c1	32	LYS	2.3
47	m0	103	LEU	2.3
39	l2	253	GLN	2.3
40	l3	239	PRO	2.3
9	S7	12	ALA	2.3
33	e1	84	VAL	2.3
7	s5	42	LEU	2.3
8	s6	164	LYS	2.3
34	SR	32	LEU	2.3
70	O4	21	LYS	2.3
25	D3	42	PRO	2.3
47	m0	113	GLN	2.3
13	C1	150	ASN	2.3
14	C2	83	GLU	2.3
49	M3	37	ASN	2.3
34	sR	284	ALA	2.3
18	C6	12	LYS	2.3
40	l3	241	LYS	2.3
3	S1	25	THR	2.3
48	M1	127	PHE	2.3
8	S6	97	VAL	2.3
13	C1	2	SER	2.3
13	c1	117	VAL	2.3
14	c2	121	VAL	2.3
16	C4	15	GLY	2.3
21	C9	114	VAL	2.3
14	C2	84	ASN	2.3
20	c8	27	LYS	2.3
22	D0	54	GLY	2.3
50	M4	43	LYS	2.3
1	2	718	U	2.3
14	c2	78	LEU	2.3
58	n2	89	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
70	o4	38	LEU	2.3
16	C4	76	ILE	2.3
34	SR	71	CYS	2.3
1	2	1605	G	2.3
40	L3	22	ALA	2.3
40	l3	309	GLY	2.3
4	s2	181	SER	2.3
20	c8	15	LEU	2.3
35	SM	117	LEU	2.3
60	n4	92	GLU	2.3
22	D0	86	ILE	2.2
46	L9	190	ASP	2.2
31	D9	43	PHE	2.2
21	c9	18	TYR	2.2
34	sR	185	GLN	2.2
28	D6	92	ARG	2.2
46	L9	31	ARG	2.2
8	S6	74	LYS	2.2
35	SM	19	VAL	2.2
7	S5	155	ALA	2.2
35	SM	9	GLY	2.2
8	S6	225	GLU	2.2
80	6	656	G	2.2
32	E0	61	SER	2.2
13	c1	113	PRO	2.2
22	D0	81	THR	2.2
33	e1	87	THR	2.2
2	s0	101	ARG	2.2
13	C1	152	GLN	2.2
41	L4	69	ARG	2.2
18	C6	142	TYR	2.2
18	c6	142	TYR	2.2
60	n4	97	LYS	2.2
14	C2	86	VAL	2.2
2	S0	146	LEU	2.2
36	1	2971	A	2.2
7	s5	130	ILE	2.2
7	s5	187	ILE	2.2
5	S3	25	PHE	2.2
8	S6	4	ASN	2.2
9	s7	24	PHE	2.2
84	p0	197	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
8	S6	180	THR	2.2
17	c5	8	LYS	2.2
17	c5	135	THR	2.2
39	L2	20	THR	2.2
55	M9	52	LYS	2.2
70	o4	103	LYS	2.2
51	m5	152	CYS	2.2
58	N2	33	TYR	2.2
67	O1	23	VAL	2.2
18	C6	108	ALA	2.2
14	C2	89	ILE	2.2
46	L9	10	ILE	2.2
53	M7	182	ILE	2.2
2	S0	190	ASP	2.2
9	s7	123	ASP	2.2
4	S2	146	THR	2.2
29	D7	41	LEU	2.2
66	O0	104	LEU	2.2
11	S9	181	ALA	2.2
35	SM	90	ALA	2.2
51	M5	82	GLY	2.2
36	1	1567	U	2.2
5	s3	185	LYS	2.2
57	N1	56	PHE	2.2
70	O4	7	PHE	2.2
3	s1	110	LEU	2.2
14	c2	31	VAL	2.2
14	c2	41	LEU	2.2
14	c2	75	VAL	2.2
45	l8	238	LEU	2.2
52	M6	184	THR	2.2
4	s2	94	GLN	2.2
22	d0	99	ILE	2.1
34	SR	102	ARG	2.1
35	SM	88	ARG	2.1
55	m9	85	ARG	2.1
3	S1	94	LYS	2.1
13	C1	156	PHE	2.1
33	E1	145	HIS	2.1
36	5	1568	U	2.1
38	8	81	U	2.1
80	6	1466	G	2.1

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Mol	Chain	Res	Type	RSRZ
3	S1	54	LEU	2.1
5	S3	181	VAL	2.1
5	s3	59	LEU	2.1
21	c9	22	LEU	2.1
28	D6	88	SER	2.1
33	E1	150	VAL	2.1
58	N2	27	VAL	2.1
60	n4	72	SER	2.1
18	C6	134	ALA	2.1
26	D4	135	ASP	2.1
36	5	1350	A	2.1
13	C1	32	LYS	2.1
4	S2	224	PHE	2.1
49	m3	133	PRO	2.1
3	S1	103	MET	2.1
57	N1	74	VAL	2.1
1	2	1115	U	2.1
36	1	1351	U	2.1
36	1	2954	U	2.1
54	M8	167	SER	2.1
7	S5	159	ALA	2.1
70	O4	2	ALA	2.1
14	C2	80	ASN	2.1
3	S1	32	ILE	2.1
72	o6	53	TYR	2.1
10	s8	39	GLY	2.1
16	c4	87	GLY	2.1
70	O4	33	GLN	2.1
80	6	651	G	2.1
1	2	1820	A	2.1
36	1	1350	A	2.1
29	d7	40	CYS	2.1
25	D3	18	HIS	2.1
28	D6	17	HIS	2.1
10	s8	165	LEU	2.1
1	2	1822	C	2.1
47	M0	219	ALA	2.1
67	O1	85	ALA	2.1
84	p0	211	SER	2.1
5	s3	151	LYS	2.1
8	s6	146	GLY	2.1
14	c2	102	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
33	e1	79	LYS	2.1
34	SR	79	TYR	2.1
34	sR	138	GLY	2.1
36	1	2205	U	2.1
36	1	3175	U	2.1
8	s6	145	PHE	2.1
17	c5	119	PHE	2.1
20	C8	18	LEU	2.1
27	d5	51	LEU	2.1
80	6	1199	G	2.1
11	s9	64	GLU	2.1
14	c2	109	GLU	2.1
44	L7	216	VAL	2.1
33	e1	110	ALA	2.1
47	M0	218	ALA	2.1
50	M4	9	ALA	2.1
60	n4	122	ALA	2.1
63	N7	2	ALA	2.1
66	O0	95	ALA	2.1
81	c0	23	ALA	2.1
34	sR	123	ILE	2.1
39	l2	15	ILE	2.1
4	s2	93	GLY	2.1
48	M1	83	GLY	2.1
8	S6	82	SER	2.1
9	s7	187	SER	2.1
65	n9	27	TYR	2.1
36	5	1581	C	2.1
80	6	1709	C	2.1
36	5	1815	U	2.1
14	c2	88	LEU	2.1
17	C5	126	VAL	2.1
25	d3	18	HIS	2.1
29	D7	38	PRO	2.1
34	sR	30	PRO	2.1
70	o4	59	PRO	2.1
23	D1	10	GLU	2.1
84	p0	208	GLU	2.1
20	c8	129	TRP	2.0
25	D3	24	TRP	2.0
40	l3	262	TRP	2.0
15	C3	106	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
3	S1	140	ILE	2.0
22	D0	69	LYS	2.0
60	n4	115	LYS	2.0
72	O6	96	ALA	2.0
13	c1	68	GLY	2.0
30	D8	17	GLY	2.0
3	S1	100	PHE	2.0
15	C3	113	PHE	2.0
16	C4	102	LEU	2.0
23	D1	69	LEU	2.0
24	D2	69	LEU	2.0
25	D3	34	LEU	2.0
47	m0	111	LEU	2.0
22	D0	84	MET	2.0
80	6	261	U	2.0
2	S0	99	ALA	2.0
7	S5	40	ILE	2.0
9	S7	8	ILE	2.0
10	s8	40	ALA	2.0
14	c2	101	ALA	2.0
34	sR	115	ILE	2.0
40	l3	362	ALA	2.0
43	L6	130	ILE	2.0
51	m5	111	ALA	2.0
57	n1	121	ALA	2.0
15	C3	2	GLY	2.0
40	l3	315	GLY	2.0
52	m6	67	THR	2.0
8	s6	144	PHE	2.0
11	s9	80	LEU	2.0
49	M3	140	SER	2.0
59	n3	2	SER	2.0
66	O0	62	LEU	2.0
49	m3	6	ASN	2.0
50	M4	59	ASN	2.0
18	C6	41	PRO	2.0
18	c6	23	LYS	2.0
70	O4	24	LYS	2.0
8	S6	222	GLU	2.0
8	s6	161	GLU	2.0
17	C5	84	ILE	2.0
34	SR	36	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
34	SR	136	ILE	2.0
34	sR	92	TRP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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	B-factors(Å ²)	Q<0.9
86	8AN	A	3403	22/23	0.76	0.20	48,103,107,107	0
86	8AN	B	3403	22/23	0.81	0.18	42,97,101,102	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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	B-factors(Å ²)	Q<0.9
88	MG	1	4344	1/1	-0.14	0.25	191,191,191,191	0
88	MG	6	2332	1/1	-0.13	0.23	213,213,213,213	0
88	MG	2	2198	1/1	-0.01	0.36	120,120,120,120	0
88	MG	2	2173	1/1	0.01	0.42	116,116,116,116	0
88	MG	2	2230	1/1	0.08	0.28	124,124,124,124	0
88	MG	1	4289	1/1	0.13	0.26	127,127,127,127	0
88	MG	5	4182	1/1	0.15	0.44	123,123,123,123	0
88	MG	2	2247	1/1	0.18	0.25	115,115,115,115	0
88	MG	5	4388	1/1	0.18	0.25	134,134,134,134	0
88	MG	6	2281	1/1	0.21	0.34	124,124,124,124	0
87	OHX	8	219	7/7	0.22	0.36	92,92,92,92	7
88	MG	2	2148	1/1	0.23	0.28	130,130,130,130	0
88	MG	1	4302	1/1	0.27	0.17	126,126,126,126	0
87	OHX	5	3802	7/7	0.31	0.47	76,76,76,76	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	2	2156	1/1	0.32	0.43	86,86,86,86	0
88	MG	2	2224	1/1	0.33	0.40	99,99,99,99	0
88	MG	2	2204	1/1	0.33	0.31	106,106,106,106	0
88	MG	2	2147	1/1	0.35	0.28	100,100,100,100	0
88	MG	1	4461	1/1	0.35	0.34	109,109,109,109	0
87	OHX	m1	201	7/7	0.36	0.35	73,73,73,73	7
87	OHX	5	3716	7/7	0.37	0.43	73,73,73,73	7
87	OHX	5	3735	7/7	0.37	0.42	72,72,72,72	7
87	OHX	M0	303	7/7	0.39	0.41	96,96,96,96	7
88	MG	2	2162	1/1	0.39	0.60	85,85,85,85	0
87	OHX	6	2068	7/7	0.41	0.41	83,83,83,83	7
88	MG	5	4524	1/1	0.41	0.19	83,83,83,83	1
88	MG	5	4134	1/1	0.43	0.24	100,100,100,100	0
88	MG	1	4149	1/1	0.43	0.33	101,101,101,101	0
88	MG	6	2305	1/1	0.45	0.42	98,98,98,98	0
88	MG	E1	502	1/1	0.46	0.48	125,125,125,125	0
88	MG	1	4363	1/1	0.47	0.39	92,92,92,92	0
88	MG	6	2333	1/1	0.47	0.21	59,59,59,59	1
88	MG	1	4314	1/1	0.47	0.28	115,115,115,115	0
88	MG	2	2157	1/1	0.48	0.35	103,103,103,103	0
88	MG	2	2211	1/1	0.49	0.32	106,106,106,106	0
87	OHX	6	2089	7/7	0.50	0.49	74,74,74,74	7
88	MG	5	4419	1/1	0.50	0.15	59,59,59,59	0
88	MG	6	2169	1/1	0.50	0.31	85,85,85,85	0
88	MG	5	4565	1/1	0.50	0.15	117,117,117,117	0
88	MG	M1	201	1/1	0.51	0.13	73,73,73,73	0
87	OHX	2	2072	7/7	0.51	0.33	104,104,104,104	7
87	OHX	6	2093	7/7	0.52	0.32	83,83,83,83	7
88	MG	5	3907	1/1	0.52	0.24	53,53,53,53	1
87	OHX	5	3763	7/7	0.52	0.66	39,39,39,39	7
88	MG	1	4050	1/1	0.52	0.25	105,105,105,105	0
87	OHX	6	2064	7/7	0.53	0.51	68,68,68,68	7
88	MG	2	2137	1/1	0.53	0.27	126,126,126,126	0
87	OHX	2	2079	7/7	0.53	0.27	103,103,103,103	7
87	OHX	5	3758	7/7	0.53	0.46	53,53,53,53	7
88	MG	1	3855	1/1	0.54	0.31	89,89,89,89	0
88	MG	2	2191	1/1	0.54	0.37	99,99,99,99	0
87	OHX	5	3765	7/7	0.55	0.36	78,78,78,78	7
88	MG	1	4327	1/1	0.55	0.23	86,86,86,86	0
88	MG	6	2295	1/1	0.56	0.25	58,58,58,58	1
88	MG	6	2302	1/1	0.56	0.29	106,106,106,106	0
87	OHX	5	3781	7/7	0.56	0.66	53,53,53,53	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4205	1/1	0.56	0.21	67,67,67,67	1
88	MG	2	2252	1/1	0.57	0.14	126,126,126,126	0
87	OHX	5	3654	7/7	0.57	0.50	51,51,51,51	7
88	MG	p0	301	1/1	0.57	0.34	93,93,93,93	0
88	MG	2	2119	1/1	0.58	0.34	92,92,92,92	0
88	MG	2	2101	1/1	0.58	0.40	73,73,73,73	0
88	MG	6	2262	1/1	0.58	0.39	114,114,114,114	0
88	MG	1	4486	1/1	0.58	0.33	100,100,100,100	0
88	MG	5	4313	1/1	0.58	0.20	102,102,102,102	0
88	MG	5	4355	1/1	0.59	0.30	73,73,73,73	0
88	MG	6	2191	1/1	0.59	0.29	86,86,86,86	0
88	MG	D9	103	1/1	0.59	0.24	94,94,94,94	0
89	ZN	d7	101	1/1	0.59	0.16	135,135,135,135	0
87	OHX	6	2087	7/7	0.60	0.50	71,71,71,71	7
88	MG	5	4481	1/1	0.60	0.31	95,95,95,95	0
87	OHX	2	2060	7/7	0.60	0.27	98,98,98,98	7
88	MG	2	2149	1/1	0.60	0.30	92,92,92,92	0
88	MG	5	3885	1/1	0.60	0.19	111,111,111,111	0
87	OHX	5	3796	7/7	0.60	0.33	87,87,87,87	7
87	OHX	5	3726	7/7	0.61	0.63	42,42,42,42	7
88	MG	2	2250	1/1	0.61	0.16	79,79,79,79	0
88	MG	1	4009	1/1	0.61	0.39	47,47,47,47	0
88	MG	2	2164	1/1	0.61	0.27	122,122,122,122	0
88	MG	d5	201	1/1	0.61	0.26	124,124,124,124	0
87	OHX	2	2029	7/7	0.61	0.35	95,95,95,95	7
88	MG	d9	104	1/1	0.62	0.25	109,109,109,109	0
88	MG	2	2142	1/1	0.62	0.39	61,61,61,61	0
87	OHX	5	3778	7/7	0.62	0.53	45,45,45,45	7
87	OHX	5	3737	7/7	0.62	0.62	53,53,53,53	7
88	MG	1	4083	1/1	0.62	0.34	101,101,101,101	0
88	MG	c9	203	1/1	0.62	0.35	87,87,87,87	0
87	OHX	1	3771	7/7	0.62	0.32	84,84,84,84	7
87	OHX	5	3772	7/7	0.63	0.36	80,80,80,80	7
88	MG	2	2212	1/1	0.63	0.28	86,86,86,86	0
88	MG	2	2217	1/1	0.63	0.26	103,103,103,103	0
88	MG	1	4177	1/1	0.63	0.29	75,75,75,75	0
88	MG	5	4452	1/1	0.63	0.26	100,100,100,100	0
87	OHX	6	2054	7/7	0.63	0.41	65,65,65,65	7
88	MG	1	4482	1/1	0.63	0.14	53,53,53,53	0
88	MG	5	4131	1/1	0.63	0.32	69,69,69,69	0
87	OHX	6	2095	7/7	0.63	0.48	73,73,73,73	7
88	MG	2	2169	1/1	0.63	0.18	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3751	7/7	0.64	0.43	49,49,49,49	7
88	MG	2	2214	1/1	0.64	0.18	78,78,78,78	0
88	MG	5	4341	1/1	0.64	0.10	95,95,95,95	0
87	OHX	2	2030	7/7	0.64	0.21	112,112,112,112	7
88	MG	6	2164	1/1	0.64	0.35	87,87,87,87	0
88	MG	1	4477	1/1	0.64	0.13	82,82,82,82	0
88	MG	O4	201	1/1	0.65	0.36	77,77,77,77	0
88	MG	6	2108	1/1	0.65	0.28	98,98,98,98	0
88	MG	6	2154	1/1	0.65	0.29	76,76,76,76	0
88	MG	2	2242	1/1	0.65	0.24	85,85,85,85	0
88	MG	6	2166	1/1	0.65	0.26	88,88,88,88	0
87	OHX	5	3752	7/7	0.65	0.76	42,42,42,42	7
88	MG	5	4294	1/1	0.65	0.14	106,106,106,106	0
87	OHX	1	3733	7/7	0.65	0.50	42,42,42,42	7
87	OHX	1	3656	7/7	0.65	0.16	127,127,127,127	7
87	OHX	6	2036	7/7	0.66	0.40	48,48,48,48	7
88	MG	1	3896	1/1	0.66	0.24	104,104,104,104	0
88	MG	6	2203	1/1	0.66	0.19	68,68,68,68	0
87	OHX	2	2019	7/7	0.66	0.30	105,105,105,105	7
87	OHX	5	3779	7/7	0.66	0.35	56,56,56,56	7
88	MG	2	2150	1/1	0.66	0.16	74,74,74,74	0
88	MG	5	3882	1/1	0.66	0.27	97,97,97,97	0
87	OHX	6	2010	7/7	0.66	0.37	84,84,84,84	7
87	OHX	5	3809	7/7	0.67	0.13	173,173,173,173	7
88	MG	1	3912	1/1	0.67	0.24	86,86,86,86	0
88	MG	2	2216	1/1	0.67	0.29	69,69,69,69	0
88	MG	2	2143	1/1	0.67	0.24	91,91,91,91	0
88	MG	3	226	1/1	0.67	0.16	65,65,65,65	0
87	OHX	1	3680	7/7	0.67	0.34	81,81,81,81	7
87	OHX	1	3792	7/7	0.67	0.34	71,71,71,71	7
88	MG	2	2176	1/1	0.67	0.14	84,84,84,84	0
88	MG	5	3850	1/1	0.67	0.31	72,72,72,72	0
88	MG	2	2190	1/1	0.68	0.14	78,78,78,78	0
88	MG	1	3815	1/1	0.68	0.35	106,106,106,106	0
87	OHX	1	3699	7/7	0.68	0.28	101,101,101,101	7
88	MG	6	2202	1/1	0.68	0.24	81,81,81,81	0
88	MG	1	4502	1/1	0.68	0.21	94,94,94,94	0
88	MG	2	2090	1/1	0.68	0.30	83,83,83,83	0
87	OHX	6	2074	7/7	0.68	0.24	108,108,108,108	7
87	OHX	6	2081	7/7	0.68	0.34	91,91,91,91	7
87	OHX	O1	201	7/7	0.68	0.34	77,77,77,77	7
87	OHX	3	212	7/7	0.68	0.24	79,79,79,79	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	2	2181	1/1	0.68	0.28	80,80,80,80	0
89	ZN	D7	101	1/1	0.68	0.19	147,147,147,147	0
88	MG	5	4199	1/1	0.68	0.17	36,36,36,36	1
88	MG	5	3901	1/1	0.69	0.20	71,71,71,71	0
87	OHX	6	2075	7/7	0.69	0.42	54,54,54,54	7
88	MG	6	2207	1/1	0.69	0.20	93,93,93,93	0
88	MG	2	2186	1/1	0.69	0.29	65,65,65,65	0
88	MG	6	2274	1/1	0.69	0.34	42,42,42,42	1
87	OHX	1	3798	7/7	0.69	0.37	63,63,63,63	7
88	MG	5	4238	1/1	0.69	0.26	44,44,44,44	0
88	MG	6	2184	1/1	0.69	0.17	69,69,69,69	0
87	OHX	1	3731	7/7	0.69	0.40	71,71,71,71	7
87	OHX	6	2096	7/7	0.69	0.33	78,78,78,78	7
88	MG	2	2105	1/1	0.70	0.37	72,72,72,72	0
88	MG	6	2278	1/1	0.70	0.12	83,83,83,83	0
87	OHX	5	3794	7/7	0.70	0.39	73,73,73,73	7
87	OHX	5	3764	7/7	0.70	0.43	47,47,47,47	7
88	MG	2	2255	1/1	0.70	0.22	88,88,88,88	0
88	MG	5	4100	1/1	0.70	0.19	45,45,45,45	1
87	OHX	o9	101	7/7	0.70	0.61	52,52,52,52	7
87	OHX	1	3693	7/7	0.70	0.12	169,169,169,169	7
88	MG	4	239	1/1	0.70	0.15	57,57,57,57	0
87	OHX	2	2053	7/7	0.70	0.32	80,80,80,80	7
88	MG	1	4174	1/1	0.70	0.14	93,93,93,93	0
88	MG	1	4368	1/1	0.70	0.18	76,76,76,76	0
87	OHX	5	3804	7/7	0.71	0.29	83,83,83,83	7
88	MG	1	4029	1/1	0.71	0.37	73,73,73,73	0
88	MG	2	2154	1/1	0.71	0.27	68,68,68,68	0
88	MG	6	2153	1/1	0.71	0.35	44,44,44,44	0
87	OHX	6	2042	7/7	0.71	0.47	54,54,54,54	7
88	MG	S4	302	1/1	0.71	0.19	87,87,87,87	0
88	MG	2	2098	1/1	0.71	0.28	80,80,80,80	0
87	OHX	6	2028	7/7	0.71	0.46	58,58,58,58	7
87	OHX	2	2075	7/7	0.71	0.35	87,87,87,87	7
88	MG	2	2192	1/1	0.71	0.33	64,64,64,64	0
88	MG	2	2165	1/1	0.71	0.13	98,98,98,98	0
87	OHX	m4	201	7/7	0.71	0.21	101,101,101,101	7
88	MG	5	4261	1/1	0.71	0.21	61,61,61,61	0
88	MG	1	3820	1/1	0.72	0.28	55,55,55,55	0
88	MG	1	3838	1/1	0.72	0.31	45,45,45,45	0
87	OHX	1	3768	7/7	0.72	0.42	61,61,61,61	7
88	MG	5	4321	1/1	0.72	0.15	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3677	7/7	0.72	0.40	80,80,80,80	7
87	OHX	8	218	7/7	0.72	0.39	48,48,48,48	7
87	OHX	5	3684	7/7	0.72	0.53	37,37,37,37	7
87	OHX	5	3795	7/7	0.72	0.32	72,72,72,72	7
88	MG	2	2134	1/1	0.72	0.24	76,76,76,76	0
87	OHX	1	3802	7/7	0.72	0.41	54,54,54,54	7
88	MG	1	4138	1/1	0.72	0.16	45,45,45,45	1
87	OHX	n3	202	7/7	0.72	0.44	44,44,44,44	7
88	MG	6	2326	1/1	0.72	0.15	79,79,79,79	0
88	MG	1	4481	1/1	0.72	0.17	63,63,63,63	0
87	OHX	6	2077	7/7	0.72	0.26	85,85,85,85	7
87	OHX	6	2051	7/7	0.73	0.31	82,82,82,82	7
88	MG	2	2225	1/1	0.73	0.43	58,58,58,58	1
88	MG	1	4043	1/1	0.73	0.17	83,83,83,83	0
88	MG	6	2273	1/1	0.73	0.19	80,80,80,80	0
87	OHX	1	3750	7/7	0.73	0.18	99,99,99,99	7
87	OHX	8	217	7/7	0.73	0.31	82,82,82,82	7
88	MG	2	2140	1/1	0.73	0.49	81,81,81,81	0
87	OHX	6	2063	7/7	0.73	0.36	77,77,77,77	7
87	OHX	1	3752	7/7	0.73	0.43	59,59,59,59	7
88	MG	M5	305	1/1	0.73	0.41	69,69,69,69	0
87	OHX	6	2066	7/7	0.73	0.37	70,70,70,70	7
87	OHX	1	3757	7/7	0.73	0.22	117,117,117,117	7
88	MG	6	2117	1/1	0.73	0.34	61,61,61,61	0
87	OHX	5	3744	7/7	0.73	0.46	54,54,54,54	7
87	OHX	5	3788	7/7	0.73	0.52	51,51,51,51	7
87	OHX	1	3679	7/7	0.73	0.40	61,61,61,61	7
87	OHX	1	3691	7/7	0.73	0.40	56,56,56,56	7
87	OHX	5	3670	7/7	0.73	0.43	39,39,39,39	7
88	MG	2	2161	1/1	0.73	0.27	63,63,63,63	0
87	OHX	5	3759	7/7	0.73	0.44	56,56,56,56	7
88	MG	2	2116	1/1	0.73	0.26	89,89,89,89	0
88	MG	2	2124	1/1	0.74	0.30	77,77,77,77	0
87	OHX	N8	201	7/7	0.74	0.23	94,94,94,94	7
87	OHX	1	3667	7/7	0.74	0.35	85,85,85,85	7
88	MG	6	2301	1/1	0.74	0.20	57,57,57,57	0
87	OHX	1	3807	7/7	0.74	0.24	89,89,89,89	7
87	OHX	5	3708	7/7	0.74	0.65	36,36,36,36	7
87	OHX	6	2094	7/7	0.74	0.22	102,102,102,102	7
88	MG	1	3852	1/1	0.74	0.41	63,63,63,63	0
87	OHX	6	2060	7/7	0.74	0.42	58,58,58,58	7
88	MG	5	4328	1/1	0.74	0.11	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4229	1/1	0.74	0.14	63,63,63,63	0
88	MG	1	4254	1/1	0.74	0.20	77,77,77,77	0
88	MG	2	2111	1/1	0.74	0.35	63,63,63,63	0
87	OHX	2	2081	7/7	0.74	0.15	120,120,120,120	7
88	MG	6	2216	1/1	0.74	0.19	86,86,86,86	0
88	MG	2	2254	1/1	0.74	0.13	97,97,97,97	0
88	MG	6	2272	1/1	0.74	0.30	98,98,98,98	0
87	OHX	2	2034	7/7	0.74	0.28	86,86,86,86	7
88	MG	5	4067	1/1	0.74	0.43	89,89,89,89	0
88	MG	Q2	503	1/1	0.74	0.32	62,62,62,62	0
88	MG	5	4117	1/1	0.74	0.21	52,52,52,52	0
88	MG	4	235	1/1	0.75	0.24	98,98,98,98	0
88	MG	2	2193	1/1	0.75	0.29	71,71,71,71	0
88	MG	5	4125	1/1	0.75	0.34	82,82,82,82	0
87	OHX	1	3725	7/7	0.75	0.39	57,57,57,57	7
87	OHX	1	3727	7/7	0.75	0.20	100,100,100,100	7
88	MG	5	4151	1/1	0.75	0.26	80,80,80,80	0
88	MG	1	3921	1/1	0.75	0.42	49,49,49,49	0
88	MG	6	2283	1/1	0.75	0.17	69,69,69,69	1
87	OHX	C3	201	7/7	0.75	0.29	99,99,99,99	7
88	MG	1	4324	1/1	0.75	0.18	70,70,70,70	0
87	OHX	5	3808	7/7	0.75	0.60	54,54,54,54	7
88	MG	1	4341	1/1	0.75	0.18	44,44,44,44	1
88	MG	2	2257	1/1	0.75	0.13	121,121,121,121	0
87	OHX	2	2084	7/7	0.75	0.13	183,183,183,183	7
88	MG	2	2178	1/1	0.75	0.25	79,79,79,79	0
87	OHX	5	3811	7/7	0.75	0.40	66,66,66,66	7
88	MG	1	4145	1/1	0.75	0.17	82,82,82,82	0
87	OHX	7	211	7/7	0.75	0.45	61,61,61,61	7
88	MG	sM	201	1/1	0.75	0.19	48,48,48,48	0
87	OHX	1	3700	7/7	0.75	0.40	55,55,55,55	7
87	OHX	5	3755	7/7	0.75	0.18	110,110,110,110	7
88	MG	1	4488	1/1	0.75	0.25	65,65,65,65	0
88	MG	5	4568	1/1	0.75	0.36	69,69,69,69	0
88	MG	8	230	1/1	0.75	0.17	72,72,72,72	0
88	MG	8	233	1/1	0.75	0.17	88,88,88,88	0
88	MG	12	305	1/1	0.75	0.11	71,71,71,71	0
88	MG	1	4193	1/1	0.75	0.23	56,56,56,56	0
88	MG	6	2251	1/1	0.75	0.29	74,74,74,74	0
88	MG	2	2163	1/1	0.75	0.31	70,70,70,70	0
88	MG	5	4270	1/1	0.76	0.12	46,46,46,46	0
87	OHX	2	2086	7/7	0.76	0.20	105,105,105,105	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	2	2189	1/1	0.76	0.27	94,94,94,94	0
87	OHX	2	2066	7/7	0.76	0.39	80,80,80,80	7
87	OHX	1	3799	7/7	0.76	0.51	48,48,48,48	7
87	OHX	5	3741	7/7	0.76	0.64	37,37,37,37	7
87	OHX	6	2049	7/7	0.76	0.33	70,70,70,70	7
88	MG	1	4089	1/1	0.76	0.39	43,43,43,43	0
88	MG	5	3909	1/1	0.76	0.19	55,55,55,55	0
88	MG	1	4099	1/1	0.76	0.41	88,88,88,88	0
88	MG	6	2175	1/1	0.76	0.21	56,56,56,56	0
88	MG	6	2178	1/1	0.76	0.21	54,54,54,54	0
87	OHX	1	3738	7/7	0.76	0.55	41,41,41,41	7
88	MG	6	2304	1/1	0.76	0.33	52,52,52,52	1
88	MG	4	236	1/1	0.76	0.17	67,67,67,67	0
87	OHX	6	2052	7/7	0.76	0.13	127,127,127,127	7
88	MG	2	2125	1/1	0.76	0.27	85,85,85,85	0
88	MG	12	306	1/1	0.76	0.37	53,53,53,53	1
87	OHX	5	3754	7/7	0.76	0.38	42,42,42,42	7
87	OHX	2	2058	7/7	0.76	0.10	193,193,193,193	7
88	MG	6	2229	1/1	0.76	0.23	45,45,45,45	0
88	MG	1	4180	1/1	0.77	0.17	63,63,63,63	0
87	OHX	5	3814	7/7	0.77	0.42	63,63,63,63	7
88	MG	2	2188	1/1	0.77	0.09	84,84,84,84	0
87	OHX	1	3741	7/7	0.77	0.33	72,72,72,72	7
88	MG	5	4251	1/1	0.77	0.14	37,37,37,37	0
87	OHX	7	212	7/7	0.77	0.26	56,56,56,56	7
88	MG	s4	302	1/1	0.77	0.29	55,55,55,55	0
88	MG	c8	205	1/1	0.77	0.21	93,93,93,93	0
88	MG	2	2249	1/1	0.77	0.38	97,97,97,97	0
87	OHX	6	2012	7/7	0.77	0.28	64,64,64,64	7
87	OHX	1	3804	7/7	0.77	0.41	60,60,60,60	7
88	MG	6	2222	1/1	0.77	0.19	81,81,81,81	0
87	OHX	5	3699	7/7	0.77	0.21	86,86,86,86	7
87	OHX	19	201	7/7	0.77	0.33	62,62,62,62	7
87	OHX	1	3671	7/7	0.77	0.57	49,49,49,49	7
88	MG	S1	301	1/1	0.77	0.17	105,105,105,105	0
88	MG	5	3904	1/1	0.77	0.30	76,76,76,76	0
87	OHX	1	3791	7/7	0.77	0.28	79,79,79,79	7
88	MG	6	2129	1/1	0.77	0.29	59,59,59,59	0
88	MG	5	4063	1/1	0.77	0.14	54,54,54,54	0
88	MG	6	2139	1/1	0.77	0.39	63,63,63,63	0
87	OHX	1	3665	7/7	0.77	0.55	54,54,54,54	7
87	OHX	2	2078	7/7	0.77	0.25	102,102,102,102	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3765	7/7	0.77	0.60	49,49,49,49	7
87	OHX	5	3644	7/7	0.77	0.28	69,69,69,69	7
88	MG	5	4133	1/1	0.77	0.33	63,63,63,63	0
87	OHX	6	2076	7/7	0.77	0.27	74,74,74,74	7
88	MG	5	4158	1/1	0.78	0.28	49,49,49,49	0
87	OHX	2	2063	7/7	0.78	0.33	81,81,81,81	7
87	OHX	5	3715	7/7	0.78	0.26	64,64,64,64	7
87	OHX	1	3766	7/7	0.78	0.17	141,141,141,141	7
88	MG	2	2139	1/1	0.78	0.40	70,70,70,70	0
87	OHX	6	2023	7/7	0.78	0.26	80,80,80,80	7
88	MG	1	4210	1/1	0.78	0.13	36,36,36,36	0
87	OHX	4	214	7/7	0.78	0.50	46,46,46,46	7
87	OHX	1	3702	7/7	0.78	0.34	60,60,60,60	7
88	MG	6	2234	1/1	0.78	0.17	79,79,79,79	0
88	MG	2	2232	1/1	0.78	0.14	90,90,90,90	0
88	MG	6	2256	1/1	0.78	0.28	73,73,73,73	0
88	MG	2	2093	1/1	0.78	0.41	74,74,74,74	0
88	MG	5	4372	1/1	0.78	0.21	72,72,72,72	0
87	OHX	5	3672	7/7	0.78	0.37	42,42,42,42	7
87	OHX	1	3724	7/7	0.78	0.53	37,37,37,37	7
87	OHX	5	3682	7/7	0.78	0.37	56,56,56,56	7
88	MG	5	3942	1/1	0.78	0.33	33,33,33,33	0
88	MG	5	4490	1/1	0.78	0.19	69,69,69,69	0
88	MG	5	4512	1/1	0.78	0.40	62,62,62,62	1
87	OHX	8	215	7/7	0.78	0.43	48,48,48,48	7
88	MG	1	4072	1/1	0.78	0.27	76,76,76,76	0
88	MG	2	2114	1/1	0.78	0.53	79,79,79,79	0
88	MG	5	4572	1/1	0.78	0.12	53,53,53,53	0
88	MG	5	4103	1/1	0.78	0.28	59,59,59,59	0
87	OHX	1	3670	7/7	0.78	0.43	64,64,64,64	7
88	MG	1	4400	1/1	0.78	0.24	57,57,57,57	0
88	MG	2	2117	1/1	0.78	0.21	74,74,74,74	0
88	MG	2	2203	1/1	0.78	0.13	85,85,85,85	0
87	OHX	5	3692	7/7	0.78	0.31	49,49,49,49	7
87	OHX	6	1993	7/7	0.78	0.26	78,78,78,78	7
87	OHX	M9	203	7/7	0.79	0.18	78,78,78,78	7
88	MG	5	3977	1/1	0.79	0.32	50,50,50,50	0
88	MG	5	4011	1/1	0.79	0.39	38,38,38,38	0
87	OHX	1	3726	7/7	0.79	0.35	59,59,59,59	7
87	OHX	1	3779	7/7	0.79	0.48	48,48,48,48	7
88	MG	5	4095	1/1	0.79	0.27	61,61,61,61	0
87	OHX	1	3783	7/7	0.79	0.37	69,69,69,69	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	6	2208	1/1	0.79	0.09	67,67,67,67	0
88	MG	6	2212	1/1	0.79	0.10	84,84,84,84	0
88	MG	1	4431	1/1	0.79	0.22	41,41,41,41	1
87	OHX	6	2097	7/7	0.79	0.41	70,70,70,70	7
88	MG	1	4464	1/1	0.79	0.10	70,70,70,70	1
88	MG	2	2126	1/1	0.79	0.38	69,69,69,69	0
88	MG	2	2244	1/1	0.79	0.21	78,78,78,78	0
88	MG	2	2175	1/1	0.79	0.29	87,87,87,87	0
88	MG	2	2128	1/1	0.79	0.46	60,60,60,60	0
88	MG	1	4122	1/1	0.79	0.10	66,66,66,66	0
87	OHX	5	3722	7/7	0.79	0.32	62,62,62,62	7
88	MG	5	4248	1/1	0.79	0.22	58,58,58,58	0
88	MG	2	2136	1/1	0.79	0.26	71,71,71,71	0
88	MG	3	229	1/1	0.79	0.48	52,52,52,52	1
88	MG	1	4147	1/1	0.79	0.19	50,50,50,50	0
87	OHX	5	3569	7/7	0.79	0.40	64,64,64,64	7
88	MG	1	4172	1/1	0.79	0.13	72,72,72,72	0
88	MG	L8	301	1/1	0.79	0.13	82,82,82,82	0
87	OHX	5	3638	7/7	0.79	0.50	39,39,39,39	7
87	OHX	5	3793	7/7	0.79	0.51	42,42,42,42	7
88	MG	5	4342	1/1	0.79	0.36	68,68,68,68	1
88	MG	5	4345	1/1	0.79	0.11	41,41,41,41	1
88	MG	M9	204	1/1	0.79	0.12	70,70,70,70	0
88	MG	6	2306	1/1	0.79	0.17	79,79,79,79	0
88	MG	N6	201	1/1	0.79	0.24	63,63,63,63	0
87	OHX	1	3785	7/7	0.79	0.39	56,56,56,56	7
88	MG	O7	108	1/1	0.79	0.33	69,69,69,69	0
87	OHX	5	3651	7/7	0.79	0.31	47,47,47,47	7
88	MG	2	2146	1/1	0.79	0.27	86,86,86,86	0
88	MG	5	4509	1/1	0.79	0.12	97,97,97,97	0
88	MG	c9	201	1/1	0.79	0.14	78,78,78,78	0
87	OHX	2	1989	7/7	0.79	0.24	104,104,104,104	7
87	OHX	6	2056	7/7	0.79	0.14	97,97,97,97	7
88	MG	2	2096	1/1	0.79	0.40	61,61,61,61	0
88	MG	1	4258	1/1	0.79	0.14	74,74,74,74	0
88	MG	1	4278	1/1	0.79	0.14	47,47,47,47	1
87	OHX	2	2041	7/7	0.79	0.33	83,83,83,83	7
87	OHX	6	2085	7/7	0.79	0.13	128,128,128,128	7
87	OHX	6	2062	7/7	0.79	0.29	74,74,74,74	7
88	MG	1	3868	1/1	0.79	0.30	54,54,54,54	0
87	OHX	2	2049	7/7	0.79	0.29	84,84,84,84	7
87	OHX	5	3691	7/7	0.79	0.61	55,55,55,55	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4472	1/1	0.80	0.16	81,81,81,81	0
88	MG	6	2214	1/1	0.80	0.09	79,79,79,79	0
87	OHX	5	3700	7/7	0.80	0.30	67,67,67,67	7
87	OHX	5	3782	7/7	0.80	0.44	42,42,42,42	7
87	OHX	1	3721	7/7	0.80	0.28	68,68,68,68	7
87	OHX	1	3767	7/7	0.80	0.45	52,52,52,52	7
88	MG	6	2240	1/1	0.80	0.18	74,74,74,74	0
88	MG	6	2242	1/1	0.80	0.37	55,55,55,55	1
88	MG	5	4130	1/1	0.80	0.09	37,37,37,37	0
87	OHX	1	3735	7/7	0.80	0.45	52,52,52,52	7
88	MG	6	2255	1/1	0.80	0.32	54,54,54,54	0
88	MG	1	4127	1/1	0.80	0.23	63,63,63,63	0
88	MG	5	4150	1/1	0.80	0.18	44,44,44,44	0
87	OHX	1	3808	7/7	0.80	0.26	88,88,88,88	7
88	MG	1	4144	1/1	0.80	0.12	69,69,69,69	0
88	MG	5	4160	1/1	0.80	0.13	83,83,83,83	0
87	OHX	1	3810	7/7	0.80	0.14	149,149,149,149	7
87	OHX	1	3736	7/7	0.80	0.27	70,70,70,70	7
87	OHX	2	2080	7/7	0.80	0.60	66,66,66,66	7
87	OHX	5	3807	7/7	0.80	0.42	44,44,44,44	7
87	OHX	1	3781	7/7	0.80	0.68	47,47,47,47	7
87	OHX	5	3632	7/7	0.80	0.49	44,44,44,44	7
88	MG	6	2300	1/1	0.80	0.17	82,82,82,82	0
87	OHX	1	3703	7/7	0.80	0.21	106,106,106,106	7
88	MG	5	4304	1/1	0.80	0.21	58,58,58,58	0
88	MG	5	4306	1/1	0.80	0.08	50,50,50,50	0
88	MG	2	2182	1/1	0.80	0.38	87,87,87,87	0
88	MG	S4	301	1/1	0.80	0.30	76,76,76,76	0
88	MG	2	2185	1/1	0.80	0.38	74,74,74,74	0
87	OHX	1	3709	7/7	0.80	0.41	58,58,58,58	7
88	MG	6	2323	1/1	0.80	0.32	70,70,70,70	0
87	OHX	6	2065	7/7	0.80	0.14	129,129,129,129	7
88	MG	1	3811	1/1	0.80	0.29	44,44,44,44	0
87	OHX	1	3786	7/7	0.80	0.25	69,69,69,69	7
88	MG	5	4385	1/1	0.80	0.18	63,63,63,63	0
87	OHX	5	3756	7/7	0.80	0.21	89,89,89,89	7
88	MG	c8	204	1/1	0.80	0.22	81,81,81,81	0
88	MG	6	2143	1/1	0.80	0.44	86,86,86,86	0
87	OHX	1	3789	7/7	0.80	0.54	46,46,46,46	7
87	OHX	1	3717	7/7	0.80	0.25	96,96,96,96	7
87	OHX	1	3729	7/7	0.80	0.70	46,46,46,46	7
87	OHX	1	3794	7/7	0.80	0.25	93,93,93,93	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3885	1/1	0.80	0.28	37,37,37,37	0
88	MG	5	4537	1/1	0.80	0.10	56,56,56,56	0
88	MG	6	2171	1/1	0.80	0.18	79,79,79,79	0
87	OHX	m0	302	7/7	0.80	0.53	45,45,45,45	7
88	MG	1	4356	1/1	0.80	0.40	55,55,55,55	1
87	OHX	6	2024	7/7	0.80	0.24	86,86,86,86	7
87	OHX	1	3760	7/7	0.80	0.49	49,49,49,49	7
88	MG	5	3906	1/1	0.80	0.34	88,88,88,88	0
87	OHX	1	3718	7/7	0.80	0.34	69,69,69,69	7
87	OHX	6	2086	7/7	0.80	0.15	147,147,147,147	7
87	OHX	5	3780	7/7	0.80	0.56	55,55,55,55	7
88	MG	2	2155	1/1	0.80	0.32	60,60,60,60	0
88	MG	4	240	1/1	0.81	0.22	53,53,53,53	0
88	MG	1	4194	1/1	0.81	0.41	47,47,47,47	0
87	OHX	6	2079	7/7	0.81	0.32	60,60,60,60	7
87	OHX	5	3701	7/7	0.81	0.43	46,46,46,46	7
88	MG	1	4220	1/1	0.81	0.20	74,74,74,74	0
88	MG	1	4222	1/1	0.81	0.20	72,72,72,72	0
88	MG	5	4136	1/1	0.81	0.23	82,82,82,82	0
88	MG	1	4225	1/1	0.81	0.22	64,64,64,64	0
88	MG	6	2287	1/1	0.81	0.26	62,62,62,62	0
87	OHX	m5	502	7/7	0.81	0.41	78,78,78,78	7
87	OHX	1	3734	7/7	0.81	0.29	68,68,68,68	7
88	MG	5	4181	1/1	0.81	0.13	50,50,50,50	0
88	MG	1	3919	1/1	0.81	0.31	75,75,75,75	0
87	OHX	1	3751	7/7	0.81	0.30	79,79,79,79	7
88	MG	1	3935	1/1	0.81	0.38	37,37,37,37	0
88	MG	1	3996	1/1	0.81	0.18	39,39,39,39	0
87	OHX	4	216	7/7	0.81	0.29	73,73,73,73	7
88	MG	6	2320	1/1	0.81	0.13	62,62,62,62	0
87	OHX	1	3659	7/7	0.81	0.47	48,48,48,48	7
88	MG	6	2325	1/1	0.81	0.18	59,59,59,59	0
88	MG	1	4042	1/1	0.81	0.17	59,59,59,59	0
88	MG	6	2156	1/1	0.81	0.57	66,66,66,66	0
88	MG	2	2145	1/1	0.81	0.43	97,97,97,97	0
88	MG	2	2251	1/1	0.81	0.14	59,59,59,59	1
88	MG	1	4063	1/1	0.81	0.34	71,71,71,71	0
88	MG	1	4064	1/1	0.81	0.17	62,62,62,62	0
88	MG	2	2095	1/1	0.81	0.27	63,63,63,63	0
87	OHX	1	3770	7/7	0.81	0.35	53,53,53,53	7
87	OHX	5	3766	7/7	0.81	0.26	96,96,96,96	7
88	MG	1	4436	1/1	0.81	0.14	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	2	2099	1/1	0.81	0.32	63,63,63,63	0
87	OHX	S8	301	7/7	0.81	0.19	108,108,108,108	7
88	MG	5	4409	1/1	0.81	0.08	72,72,72,72	0
88	MG	5	3856	1/1	0.81	0.24	39,39,39,39	0
88	MG	5	4424	1/1	0.81	0.12	69,69,69,69	0
88	MG	1	4124	1/1	0.81	0.20	55,55,55,55	0
87	OHX	2	2045	7/7	0.81	0.30	73,73,73,73	7
88	MG	5	3891	1/1	0.81	0.21	59,59,59,59	0
87	OHX	2	2083	7/7	0.81	0.19	106,106,106,106	7
87	OHX	5	3742	7/7	0.81	0.12	149,149,149,149	7
87	OHX	6	2003	7/7	0.81	0.33	61,61,61,61	7
87	OHX	6	2007	7/7	0.81	0.28	62,62,62,62	7
87	OHX	5	3785	7/7	0.81	0.17	90,90,90,90	7
88	MG	6	2233	1/1	0.81	0.36	83,83,83,83	0
87	OHX	5	3786	7/7	0.81	0.58	40,40,40,40	7
87	OHX	8	220	7/7	0.81	0.28	77,77,77,77	7
88	MG	4	220	1/1	0.81	0.37	65,65,65,65	0
88	MG	6	2248	1/1	0.81	0.37	53,53,53,53	0
88	MG	5	4094	1/1	0.81	0.23	50,50,50,50	0
88	MG	n0	201	1/1	0.81	0.39	49,49,49,49	1
87	OHX	c3	201	7/7	0.81	0.28	79,79,79,79	7
88	MG	1	3853	1/1	0.81	0.19	51,51,51,51	0
87	OHX	3	209	7/7	0.81	0.31	82,82,82,82	7
88	MG	6	2217	1/1	0.82	0.11	66,66,66,66	0
87	OHX	6	2078	7/7	0.82	0.23	93,93,93,93	7
88	MG	1	4463	1/1	0.82	0.24	58,58,58,58	0
88	MG	2	2122	1/1	0.82	0.41	68,68,68,68	0
88	MG	1	4465	1/1	0.82	0.12	55,55,55,55	0
87	OHX	1	3777	7/7	0.82	0.23	63,63,63,63	7
87	OHX	6	2080	7/7	0.82	0.18	126,126,126,126	7
88	MG	1	4117	1/1	0.82	0.17	37,37,37,37	0
88	MG	2	2179	1/1	0.82	0.25	85,85,85,85	0
87	OHX	1	3778	7/7	0.82	0.36	55,55,55,55	7
87	OHX	5	3688	7/7	0.82	0.51	38,38,38,38	7
88	MG	6	2260	1/1	0.82	0.21	55,55,55,55	0
87	OHX	6	1989	7/7	0.82	0.29	84,84,84,84	7
88	MG	6	2268	1/1	0.82	0.40	84,84,84,84	0
88	MG	1	4143	1/1	0.82	0.24	48,48,48,48	0
87	OHX	6	2053	7/7	0.82	0.23	85,85,85,85	7
87	OHX	1	3755	7/7	0.82	0.35	45,45,45,45	7
87	OHX	2	2046	7/7	0.82	0.15	114,114,114,114	7
87	OHX	6	2092	7/7	0.82	0.20	104,104,104,104	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4169	1/1	0.82	0.40	52,52,52,52	0
87	OHX	6	2059	7/7	0.82	0.20	104,104,104,104	7
87	OHX	2	2055	7/7	0.82	0.34	72,72,72,72	7
88	MG	1	3834	1/1	0.82	0.23	59,59,59,59	0
88	MG	1	3835	1/1	0.82	0.29	46,46,46,46	0
87	OHX	1	3762	7/7	0.82	0.54	59,59,59,59	7
87	OHX	2	2077	7/7	0.82	0.17	139,139,139,139	7
87	OHX	5	3723	7/7	0.82	0.47	53,53,53,53	7
88	MG	O7	104	1/1	0.82	0.24	81,81,81,81	0
87	OHX	6	2018	7/7	0.82	0.42	54,54,54,54	7
88	MG	2	2209	1/1	0.82	0.23	71,71,71,71	0
88	MG	5	4318	1/1	0.82	0.10	62,62,62,62	0
87	OHX	1	3744	7/7	0.82	0.28	89,89,89,89	7
88	MG	5	4323	1/1	0.82	0.38	82,82,82,82	0
88	MG	1	3890	1/1	0.82	0.29	53,53,53,53	0
87	OHX	1	3745	7/7	0.82	0.38	62,62,62,62	7
88	MG	1	4240	1/1	0.82	0.15	72,72,72,72	0
88	MG	1	3899	1/1	0.82	0.29	51,51,51,51	0
88	MG	c6	201	1/1	0.82	0.25	97,97,97,97	0
87	OHX	5	3629	7/7	0.82	0.34	43,43,43,43	7
88	MG	1	3913	1/1	0.82	0.19	49,49,49,49	0
87	OHX	2	2065	7/7	0.82	0.20	110,110,110,110	7
87	OHX	6	2073	7/7	0.82	0.31	64,64,64,64	7
88	MG	2	2102	1/1	0.82	0.29	84,84,84,84	0
88	MG	1	3970	1/1	0.82	0.22	54,54,54,54	0
87	OHX	5	3640	7/7	0.82	0.35	47,47,47,47	7
88	MG	5	4460	1/1	0.82	0.16	66,66,66,66	0
88	MG	5	3842	1/1	0.82	0.16	43,43,43,43	0
88	MG	2	2229	1/1	0.82	0.18	84,84,84,84	0
88	MG	1	4020	1/1	0.82	0.27	37,37,37,37	0
88	MG	1	4345	1/1	0.82	0.10	69,69,69,69	0
88	MG	1	4352	1/1	0.82	0.11	88,88,88,88	0
88	MG	6	2192	1/1	0.82	0.35	75,75,75,75	0
88	MG	1	4355	1/1	0.82	0.16	51,51,51,51	1
88	MG	2	2109	1/1	0.82	0.37	73,73,73,73	0
87	OHX	6	2034	7/7	0.82	0.10	134,134,134,134	7
87	OHX	1	3661	7/7	0.82	0.38	59,59,59,59	7
87	OHX	2	2039	7/7	0.82	0.23	103,103,103,103	7
88	MG	5	3931	1/1	0.82	0.24	54,54,54,54	0
87	OHX	6	2044	7/7	0.82	0.24	78,78,78,78	7
88	MG	l5	304	1/1	0.82	0.21	61,61,61,61	0
88	MG	5	3943	1/1	0.82	0.25	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	3961	1/1	0.82	0.16	55,55,55,55	0
88	MG	2	2170	1/1	0.82	0.17	78,78,78,78	0
88	MG	5	3978	1/1	0.82	0.33	57,57,57,57	0
88	MG	1	3875	1/1	0.83	0.24	61,61,61,61	0
88	MG	2	2159	1/1	0.83	0.23	75,75,75,75	0
87	OHX	6	2022	7/7	0.83	0.14	139,139,139,139	7
88	MG	6	2258	1/1	0.83	0.25	84,84,84,84	0
88	MG	1	3895	1/1	0.83	0.17	40,40,40,40	0
88	MG	2	2218	1/1	0.83	0.14	82,82,82,82	0
87	OHX	5	3680	7/7	0.83	0.41	43,43,43,43	7
88	MG	4	244	1/1	0.83	0.14	95,95,95,95	0
87	OHX	2	2061	7/7	0.83	0.26	78,78,78,78	7
87	OHX	4	215	7/7	0.83	0.27	74,74,74,74	7
88	MG	1	3917	1/1	0.83	0.33	37,37,37,37	0
87	OHX	2	2027	7/7	0.83	0.18	111,111,111,111	7
87	OHX	1	3773	7/7	0.83	0.30	68,68,68,68	7
87	OHX	6	2070	7/7	0.83	0.28	71,71,71,71	7
88	MG	1	3955	1/1	0.83	0.23	55,55,55,55	0
87	OHX	1	3774	7/7	0.83	0.36	56,56,56,56	7
88	MG	2	2245	1/1	0.83	0.17	71,71,71,71	0
88	MG	6	2105	1/1	0.83	0.28	49,49,49,49	0
87	OHX	2	2052	7/7	0.83	0.10	189,189,189,189	7
88	MG	5	4207	1/1	0.83	0.20	46,46,46,46	0
88	MG	5	4222	1/1	0.83	0.12	36,36,36,36	0
88	MG	5	4226	1/1	0.83	0.15	55,55,55,55	0
87	OHX	2	2047	7/7	0.83	0.20	106,106,106,106	7
88	MG	6	2128	1/1	0.83	0.21	68,68,68,68	0
88	MG	1	4028	1/1	0.83	0.29	49,49,49,49	0
88	MG	6	2138	1/1	0.83	0.12	73,73,73,73	0
87	OHX	5	3620	7/7	0.83	0.24	51,51,51,51	7
87	OHX	5	3710	7/7	0.83	0.29	82,82,82,82	7
87	OHX	5	3711	7/7	0.83	0.31	69,69,69,69	7
88	MG	2	2253	1/1	0.83	0.26	76,76,76,76	0
88	MG	6	2155	1/1	0.83	0.23	72,72,72,72	0
88	MG	1	4346	1/1	0.83	0.18	40,40,40,40	1
87	OHX	2	2067	7/7	0.83	0.27	92,92,92,92	7
87	OHX	2	2069	7/7	0.83	0.28	78,78,78,78	7
87	OHX	1	3600	7/7	0.83	0.32	62,62,62,62	7
88	MG	5	4336	1/1	0.83	0.32	34,34,34,34	0
88	MG	1	4361	1/1	0.83	0.33	38,38,38,38	1
87	OHX	1	3809	7/7	0.83	0.57	60,60,60,60	7
87	OHX	m9	201	7/7	0.83	0.22	70,70,70,70	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3706	7/7	0.83	0.41	55,55,55,55	7
87	OHX	1	3748	7/7	0.83	0.09	180,180,180,180	7
87	OHX	5	3736	7/7	0.83	0.32	62,62,62,62	7
88	MG	6	2200	1/1	0.83	0.21	74,74,74,74	0
88	MG	5	4396	1/1	0.83	0.14	43,43,43,43	1
88	MG	5	3872	1/1	0.83	0.24	33,33,33,33	0
88	MG	5	4414	1/1	0.83	0.22	64,64,64,64	0
87	OHX	6	2013	7/7	0.83	0.27	82,82,82,82	7
88	MG	1	4126	1/1	0.83	0.32	58,58,58,58	0
88	MG	6	2205	1/1	0.83	0.21	84,84,84,84	0
88	MG	2	2194	1/1	0.83	0.26	72,72,72,72	0
88	MG	2	2197	1/1	0.83	0.31	76,76,76,76	0
88	MG	2	2094	1/1	0.83	0.33	62,62,62,62	0
88	MG	1	4473	1/1	0.83	0.14	47,47,47,47	0
87	OHX	5	3668	7/7	0.83	0.29	71,71,71,71	7
88	MG	5	3917	1/1	0.83	0.10	51,51,51,51	0
88	MG	5	3922	1/1	0.83	0.25	65,65,65,65	0
87	OHX	6	2015	7/7	0.83	0.38	65,65,65,65	7
87	OHX	1	3602	7/7	0.83	0.27	68,68,68,68	7
87	OHX	5	3746	7/7	0.83	0.12	131,131,131,131	7
88	MG	7	221	1/1	0.83	0.13	61,61,61,61	0
88	MG	7	224	1/1	0.83	0.20	39,39,39,39	0
88	MG	5	3954	1/1	0.83	0.59	61,61,61,61	0
87	OHX	5	3747	7/7	0.83	0.35	61,61,61,61	7
88	MG	5	3967	1/1	0.83	0.30	27,27,27,27	0
88	MG	5	3972	1/1	0.83	0.25	41,41,41,41	0
88	MG	1	4490	1/1	0.83	0.25	58,58,58,58	0
88	MG	l5	306	1/1	0.83	0.11	54,54,54,54	0
88	MG	m6	203	1/1	0.83	0.15	41,41,41,41	1
88	MG	1	4499	1/1	0.83	0.15	47,47,47,47	0
88	MG	n6	201	1/1	0.83	0.17	54,54,54,54	0
88	MG	1	3864	1/1	0.83	0.23	70,70,70,70	0
88	MG	5	4051	1/1	0.83	0.13	33,33,33,33	0
87	OHX	5	3806	7/7	0.83	0.31	63,63,63,63	7
88	MG	4	237	1/1	0.84	0.13	59,59,59,59	0
87	OHX	M0	302	7/7	0.84	0.38	48,48,48,48	7
88	MG	1	3947	1/1	0.84	0.38	35,35,35,35	0
87	OHX	5	3738	7/7	0.84	0.35	49,49,49,49	7
88	MG	1	3960	1/1	0.84	0.23	51,51,51,51	0
88	MG	1	3966	1/1	0.84	0.31	66,66,66,66	0
87	OHX	5	3740	7/7	0.84	0.33	56,56,56,56	7
87	OHX	1	3759	7/7	0.84	0.30	64,64,64,64	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4002	1/1	0.84	0.23	39,39,39,39	0
87	OHX	2	2042	7/7	0.84	0.16	113,113,113,113	7
88	MG	1	4019	1/1	0.84	0.25	45,45,45,45	0
87	OHX	1	3761	7/7	0.84	0.23	93,93,93,93	7
87	OHX	2	2070	7/7	0.84	0.37	78,78,78,78	7
88	MG	5	4187	1/1	0.84	0.22	44,44,44,44	1
88	MG	6	2099	1/1	0.84	0.41	43,43,43,43	0
88	MG	6	2102	1/1	0.84	0.15	81,81,81,81	0
88	MG	5	4221	1/1	0.84	0.32	71,71,71,71	0
87	OHX	6	2029	7/7	0.84	0.30	82,82,82,82	7
88	MG	1	4039	1/1	0.84	0.15	66,66,66,66	0
88	MG	6	2109	1/1	0.84	0.22	47,47,47,47	0
88	MG	6	2312	1/1	0.84	0.18	75,75,75,75	0
87	OHX	6	1984	7/7	0.84	0.21	82,82,82,82	7
88	MG	6	2121	1/1	0.84	0.28	61,61,61,61	0
88	MG	6	2124	1/1	0.84	0.42	71,71,71,71	0
88	MG	6	2125	1/1	0.84	0.36	40,40,40,40	0
87	OHX	2	2064	7/7	0.84	0.10	130,130,130,130	7
88	MG	2	2100	1/1	0.84	0.35	66,66,66,66	0
88	MG	5	4307	1/1	0.84	0.16	37,37,37,37	1
88	MG	6	2137	1/1	0.84	0.14	83,83,83,83	0
87	OHX	6	2037	7/7	0.84	0.26	75,75,75,75	7
88	MG	1	3817	1/1	0.84	0.22	55,55,55,55	0
88	MG	2	2205	1/1	0.84	0.24	76,76,76,76	0
88	MG	1	3830	1/1	0.84	0.38	71,71,71,71	0
88	MG	5	4331	1/1	0.84	0.10	35,35,35,35	0
87	OHX	6	2041	7/7	0.84	0.28	62,62,62,62	7
87	OHX	5	3698	7/7	0.84	0.18	86,86,86,86	7
88	MG	1	4369	1/1	0.84	0.21	69,69,69,69	0
88	MG	6	2161	1/1	0.84	0.29	59,59,59,59	0
88	MG	5	3834	1/1	0.84	0.28	40,40,40,40	0
88	MG	2	2158	1/1	0.84	0.30	68,68,68,68	0
88	MG	1	4424	1/1	0.84	0.37	67,67,67,67	0
88	MG	1	4430	1/1	0.84	0.28	38,38,38,38	1
87	OHX	2	2044	7/7	0.84	0.14	134,134,134,134	7
87	OHX	5	3610	7/7	0.84	0.39	60,60,60,60	7
87	OHX	5	3611	7/7	0.84	0.27	51,51,51,51	7
87	OHX	1	3677	7/7	0.84	0.34	56,56,56,56	7
88	MG	1	4129	1/1	0.84	0.12	83,83,83,83	0
88	MG	1	3866	1/1	0.84	0.24	34,34,34,34	0
87	OHX	5	3625	7/7	0.84	0.27	67,67,67,67	7
87	OHX	6	2048	7/7	0.84	0.43	51,51,51,51	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3631	7/7	0.84	0.20	81,81,81,81	7
87	OHX	1	3652	7/7	0.84	0.32	69,69,69,69	7
87	OHX	8	221	7/7	0.84	0.26	74,74,74,74	7
87	OHX	6	2008	7/7	0.84	0.25	82,82,82,82	7
88	MG	5	4535	1/1	0.84	0.17	56,56,56,56	0
88	MG	6	2210	1/1	0.84	0.34	79,79,79,79	0
88	MG	5	4545	1/1	0.84	0.22	77,77,77,77	0
87	OHX	1	3714	7/7	0.84	0.30	73,73,73,73	7
88	MG	1	3904	1/1	0.84	0.28	43,43,43,43	0
88	MG	2	2130	1/1	0.84	0.27	75,75,75,75	0
87	OHX	2	2018	7/7	0.84	0.23	102,102,102,102	7
88	MG	3	214	1/1	0.84	0.19	46,46,46,46	0
88	MG	3	220	1/1	0.84	0.23	55,55,55,55	0
88	MG	2	2135	1/1	0.84	0.18	72,72,72,72	0
88	MG	8	239	1/1	0.84	0.31	71,71,71,71	0
87	OHX	2	2020	7/7	0.84	0.22	84,84,84,84	7
88	MG	5	4021	1/1	0.84	0.49	32,32,32,32	0
88	MG	3	230	1/1	0.84	0.22	58,58,58,58	0
88	MG	15	305	1/1	0.84	0.14	62,62,62,62	0
88	MG	1	4203	1/1	0.84	0.14	58,58,58,58	0
88	MG	4	226	1/1	0.84	0.20	58,58,58,58	0
88	MG	5	4084	1/1	0.84	0.19	42,42,42,42	1
88	MG	6	2249	1/1	0.84	0.09	53,53,53,53	0
88	MG	4	227	1/1	0.84	0.10	58,58,58,58	0
87	OHX	2	2089	7/7	0.84	0.18	121,121,121,121	7
88	MG	1	3923	1/1	0.84	0.29	40,40,40,40	0
87	OHX	6	2055	7/7	0.85	0.37	59,59,59,59	7
88	MG	6	2279	1/1	0.85	0.16	80,80,80,80	0
87	OHX	1	3754	7/7	0.85	0.34	55,55,55,55	7
87	OHX	1	3803	7/7	0.85	0.14	112,112,112,112	7
88	MG	2	2177	1/1	0.85	0.28	69,69,69,69	0
87	OHX	1	3610	7/7	0.85	0.39	53,53,53,53	7
87	OHX	5	3724	7/7	0.85	0.35	57,57,57,57	7
87	OHX	5	3805	7/7	0.85	0.22	86,86,86,86	7
88	MG	5	4172	1/1	0.85	0.19	45,45,45,45	0
87	OHX	1	3769	7/7	0.85	0.22	71,71,71,71	7
88	MG	1	4135	1/1	0.85	0.34	44,44,44,44	0
87	OHX	6	2014	7/7	0.85	0.31	74,74,74,74	7
88	MG	5	4192	1/1	0.85	0.13	52,52,52,52	0
88	MG	6	2131	1/1	0.85	0.36	53,53,53,53	0
88	MG	6	2132	1/1	0.85	0.28	69,69,69,69	0
87	OHX	5	3686	7/7	0.85	0.25	90,90,90,90	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4444	1/1	0.85	0.49	37,37,37,37	1
88	MG	2	2144	1/1	0.85	0.17	66,66,66,66	0
88	MG	6	2142	1/1	0.85	0.19	73,73,73,73	0
88	MG	2	2097	1/1	0.85	0.22	82,82,82,82	0
87	OHX	6	2043	7/7	0.85	0.22	86,86,86,86	7
88	MG	1	3933	1/1	0.85	0.26	33,33,33,33	0
88	MG	s6	302	1/1	0.85	0.31	75,75,75,75	0
88	MG	5	4285	1/1	0.85	0.43	57,57,57,57	1
88	MG	5	4286	1/1	0.85	0.10	72,72,72,72	0
88	MG	1	4168	1/1	0.85	0.27	53,53,53,53	0
87	OHX	5	3769	7/7	0.85	0.10	145,145,145,145	7
88	MG	1	3942	1/1	0.85	0.39	39,39,39,39	0
88	MG	1	4480	1/1	0.85	0.18	49,49,49,49	1
88	MG	c9	202	1/1	0.85	0.22	80,80,80,80	0
87	OHX	5	3813	7/7	0.85	0.21	85,85,85,85	7
88	MG	d4	201	1/1	0.85	0.26	68,68,68,68	0
87	OHX	1	3743	7/7	0.85	0.45	46,46,46,46	7
87	OHX	5	3776	7/7	0.85	0.16	110,110,110,110	7
88	MG	2	2104	1/1	0.85	0.29	70,70,70,70	0
88	MG	6	2176	1/1	0.85	0.15	73,73,73,73	0
88	MG	1	4489	1/1	0.85	0.16	46,46,46,46	0
88	MG	1	3968	1/1	0.85	0.26	41,41,41,41	0
88	MG	1	4497	1/1	0.85	0.14	66,66,66,66	0
87	OHX	5	3777	7/7	0.85	0.33	53,53,53,53	7
88	MG	1	3972	1/1	0.85	0.34	44,44,44,44	0
88	MG	3	213	1/1	0.85	0.19	78,78,78,78	0
88	MG	1	3981	1/1	0.85	0.44	28,28,28,28	0
88	MG	6	2204	1/1	0.85	0.13	47,47,47,47	0
87	OHX	8	213	7/7	0.85	0.18	77,77,77,77	7
87	OHX	6	2045	7/7	0.85	0.26	61,61,61,61	7
87	OHX	2	2005	7/7	0.85	0.24	86,86,86,86	7
88	MG	1	4228	1/1	0.85	0.32	61,61,61,61	0
88	MG	1	4012	1/1	0.85	0.24	38,38,38,38	0
87	OHX	1	3556	7/7	0.85	0.26	72,72,72,72	7
88	MG	5	4477	1/1	0.85	0.13	44,44,44,44	1
87	OHX	2	2016	7/7	0.85	0.21	101,101,101,101	7
87	OHX	5	3745	7/7	0.85	0.54	39,39,39,39	7
88	MG	6	2218	1/1	0.85	0.06	81,81,81,81	0
88	MG	5	3944	1/1	0.85	0.31	24,24,24,24	0
87	OHX	1	3697	7/7	0.85	0.23	68,68,68,68	7
88	MG	5	4525	1/1	0.85	0.35	37,37,37,37	1
87	OHX	1	3712	7/7	0.85	0.39	61,61,61,61	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4291	1/1	0.85	0.49	41,41,41,41	1
88	MG	1	4293	1/1	0.85	0.17	46,46,46,46	0
88	MG	5	4552	1/1	0.85	0.16	43,43,43,43	0
88	MG	5	3973	1/1	0.85	0.35	55,55,55,55	0
88	MG	1	4300	1/1	0.85	0.18	44,44,44,44	1
87	OHX	5	3660	7/7	0.85	0.29	63,63,63,63	7
88	MG	2	2168	1/1	0.85	0.45	68,68,68,68	0
88	MG	1	4048	1/1	0.85	0.29	49,49,49,49	0
88	MG	5	4035	1/1	0.85	0.21	57,57,57,57	0
88	MG	M7	211	1/1	0.85	0.18	75,75,75,75	0
88	MG	8	237	1/1	0.85	0.10	71,71,71,71	0
88	MG	5	4054	1/1	0.85	0.18	37,37,37,37	0
88	MG	8	240	1/1	0.85	0.13	72,72,72,72	0
88	MG	2	2219	1/1	0.85	0.22	62,62,62,62	0
88	MG	N3	202	1/1	0.85	0.15	67,67,67,67	0
88	MG	1	4062	1/1	0.85	0.26	55,55,55,55	0
88	MG	5	4091	1/1	0.85	0.23	60,60,60,60	0
88	MG	O3	203	1/1	0.85	0.25	47,47,47,47	1
88	MG	1	4343	1/1	0.85	0.10	41,41,41,41	1
88	MG	1	3860	1/1	0.85	0.41	55,55,55,55	0
87	OHX	5	3789	7/7	0.85	0.37	58,58,58,58	7
88	MG	n8	201	1/1	0.85	0.22	33,33,33,33	0
87	OHX	2	2071	7/7	0.85	0.20	94,94,94,94	7
88	MG	2	2171	1/1	0.85	0.17	90,90,90,90	0
88	MG	6	2275	1/1	0.85	0.24	67,67,67,67	1
90	PRO	A	3501	7/8	0.85	0.25	75,75,75,75	0
87	OHX	1	3758	7/7	0.86	0.17	63,63,63,63	7
87	OHX	6	2017	7/7	0.86	0.29	50,50,50,50	7
88	MG	1	4292	1/1	0.86	0.24	72,72,72,72	0
87	OHX	3	211	7/7	0.86	0.23	81,81,81,81	7
87	OHX	5	3695	7/7	0.86	0.34	39,39,39,39	7
87	OHX	8	216	7/7	0.86	0.23	67,67,67,67	7
88	MG	2	2132	1/1	0.86	0.22	70,70,70,70	0
88	MG	1	4318	1/1	0.86	0.09	65,65,65,65	0
88	MG	5	4163	1/1	0.86	0.38	39,39,39,39	0
88	MG	5	4169	1/1	0.86	0.27	82,82,82,82	0
88	MG	1	4323	1/1	0.86	0.27	51,51,51,51	0
87	OHX	sR	401	7/7	0.86	0.15	122,122,122,122	7
87	OHX	2	1981	7/7	0.86	0.24	106,106,106,106	7
87	OHX	5	3581	7/7	0.86	0.42	44,44,44,44	7
88	MG	6	2106	1/1	0.86	0.23	68,68,68,68	0
88	MG	1	4046	1/1	0.86	0.16	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3601	7/7	0.86	0.35	44,44,44,44	7
88	MG	6	2116	1/1	0.86	0.22	61,61,61,61	0
88	MG	2	2138	1/1	0.86	0.12	76,76,76,76	0
88	MG	1	4054	1/1	0.86	0.08	44,44,44,44	0
88	MG	6	2123	1/1	0.86	0.28	67,67,67,67	0
88	MG	5	4239	1/1	0.86	0.20	58,58,58,58	0
87	OHX	5	3705	7/7	0.86	0.58	41,41,41,41	7
88	MG	2	2196	1/1	0.86	0.17	82,82,82,82	0
87	OHX	5	3774	7/7	0.86	0.15	109,109,109,109	7
88	MG	1	4070	1/1	0.86	0.21	50,50,50,50	0
87	OHX	5	3608	7/7	0.86	0.29	39,39,39,39	7
88	MG	1	4078	1/1	0.86	0.59	52,52,52,52	1
87	OHX	1	3784	7/7	0.86	0.20	105,105,105,105	7
88	MG	5	4300	1/1	0.86	0.25	70,70,70,70	0
88	MG	c6	202	1/1	0.86	0.29	87,87,87,87	0
88	MG	1	4391	1/1	0.86	0.28	34,34,34,34	1
87	OHX	1	3678	7/7	0.86	0.19	75,75,75,75	7
88	MG	1	4092	1/1	0.86	0.29	76,76,76,76	0
88	MG	1	4095	1/1	0.86	0.23	59,59,59,59	0
88	MG	6	2150	1/1	0.86	0.46	59,59,59,59	0
87	OHX	1	3658	7/7	0.86	0.28	60,60,60,60	7
88	MG	1	4435	1/1	0.86	0.15	200,200,200,200	0
88	MG	1	4103	1/1	0.86	0.22	69,69,69,69	0
87	OHX	1	3788	7/7	0.86	0.12	147,147,147,147	7
88	MG	5	3815	1/1	0.86	0.42	36,36,36,36	0
88	MG	1	4449	1/1	0.86	0.18	82,82,82,82	0
88	MG	1	3872	1/1	0.86	0.21	30,30,30,30	0
88	MG	5	3844	1/1	0.86	0.20	33,33,33,33	0
88	MG	2	2210	1/1	0.86	0.27	69,69,69,69	0
88	MG	5	4382	1/1	0.86	0.17	37,37,37,37	1
87	OHX	5	3720	7/7	0.86	0.28	58,58,58,58	7
87	OHX	2	2087	7/7	0.86	0.33	71,71,71,71	7
88	MG	5	4390	1/1	0.86	0.34	62,62,62,62	0
88	MG	6	2172	1/1	0.86	0.23	76,76,76,76	0
88	MG	1	3892	1/1	0.86	0.34	66,66,66,66	0
88	MG	5	4410	1/1	0.86	0.23	38,38,38,38	1
87	OHX	5	3783	7/7	0.86	0.15	111,111,111,111	7
87	OHX	1	3684	7/7	0.86	0.33	54,54,54,54	7
88	MG	5	4420	1/1	0.86	0.12	63,63,63,63	0
88	MG	1	3897	1/1	0.86	0.21	66,66,66,66	0
87	OHX	1	3688	7/7	0.86	0.27	65,65,65,65	7
87	OHX	1	3719	7/7	0.86	0.34	57,57,57,57	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4470	1/1	0.86	0.09	62,62,62,62	0
88	MG	6	2198	1/1	0.86	0.11	90,90,90,90	0
87	OHX	1	3720	7/7	0.86	0.17	100,100,100,100	7
87	OHX	5	3643	7/7	0.86	0.32	35,35,35,35	7
88	MG	1	4167	1/1	0.86	0.14	46,46,46,46	0
88	MG	5	3941	1/1	0.86	0.21	41,41,41,41	0
88	MG	5	4523	1/1	0.86	0.20	55,55,55,55	0
87	OHX	2	2056	7/7	0.86	0.09	155,155,155,155	7
87	OHX	6	1990	7/7	0.86	0.24	65,65,65,65	7
88	MG	2	2160	1/1	0.86	0.07	67,67,67,67	0
87	OHX	1	3723	7/7	0.86	0.10	141,141,141,141	7
88	MG	5	4543	1/1	0.86	0.32	46,46,46,46	0
88	MG	1	3929	1/1	0.86	0.28	49,49,49,49	0
88	MG	5	3966	1/1	0.86	0.30	38,38,38,38	0
87	OHX	6	1998	7/7	0.86	0.23	64,64,64,64	7
88	MG	1	3934	1/1	0.86	0.39	36,36,36,36	0
88	MG	3	225	1/1	0.86	0.30	68,68,68,68	0
87	OHX	5	3667	7/7	0.86	0.31	56,56,56,56	7
87	OHX	1	3662	7/7	0.86	0.26	62,62,62,62	7
88	MG	5	3998	1/1	0.86	0.24	37,37,37,37	0
87	OHX	6	2005	7/7	0.86	0.23	80,80,80,80	7
87	OHX	2	2062	7/7	0.86	0.22	85,85,85,85	7
87	OHX	1	3623	7/7	0.86	0.41	45,45,45,45	7
87	OHX	1	3642	7/7	0.86	0.35	54,54,54,54	7
87	OHX	2	2010	7/7	0.86	0.16	101,101,101,101	7
87	OHX	1	3676	7/7	0.86	0.30	60,60,60,60	7
88	MG	l3	414	1/1	0.86	0.11	32,32,32,32	1
88	MG	6	2243	1/1	0.86	0.30	68,68,68,68	0
88	MG	5	4070	1/1	0.86	0.27	86,86,86,86	0
87	OHX	1	4509	7/7	0.86	0.34	51,51,51,51	7
88	MG	1	3975	1/1	0.86	0.36	45,45,45,45	0
88	MG	m7	205	1/1	0.86	0.08	50,50,50,50	0
88	MG	2	2120	1/1	0.86	0.16	70,70,70,70	0
88	MG	1	4255	1/1	0.86	0.22	61,61,61,61	0
87	OHX	7	209	7/7	0.86	0.24	63,63,63,63	7
88	MG	n8	205	1/1	0.86	0.21	39,39,39,39	0
88	MG	1	4267	1/1	0.86	0.15	48,48,48,48	0
88	MG	M4	201	1/1	0.86	0.09	53,53,53,53	0
88	MG	M5	302	1/1	0.86	0.27	42,42,42,42	1
88	MG	2	2123	1/1	0.86	0.16	68,68,68,68	0
88	MG	3	223	1/1	0.87	0.12	62,62,62,62	0
88	MG	5	4115	1/1	0.87	0.31	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3938	1/1	0.87	0.34	32,32,32,32	0
87	OHX	6	2072	7/7	0.87	0.27	66,66,66,66	7
88	MG	1	4202	1/1	0.87	0.10	48,48,48,48	0
88	MG	1	3946	1/1	0.87	0.26	31,31,31,31	0
87	OHX	1	3682	7/7	0.87	0.19	117,117,117,117	7
88	MG	4	223	1/1	0.87	0.18	37,37,37,37	0
88	MG	1	3948	1/1	0.87	0.22	48,48,48,48	0
88	MG	5	4140	1/1	0.87	0.17	44,44,44,44	0
88	MG	1	4218	1/1	0.87	0.11	45,45,45,45	0
88	MG	4	231	1/1	0.87	0.14	42,42,42,42	0
87	OHX	5	3621	7/7	0.87	0.26	52,52,52,52	7
87	OHX	2	2051	7/7	0.87	0.23	86,86,86,86	7
88	MG	1	4223	1/1	0.87	0.13	45,45,45,45	0
88	MG	5	4167	1/1	0.87	0.07	115,115,115,115	0
88	MG	1	3961	1/1	0.87	0.29	31,31,31,31	0
87	OHX	5	3719	7/7	0.87	0.26	62,62,62,62	7
88	MG	5	4178	1/1	0.87	0.34	66,66,66,66	0
87	OHX	1	3635	7/7	0.87	0.24	85,85,85,85	7
87	OHX	6	2000	7/7	0.87	0.36	63,63,63,63	7
88	MG	5	4183	1/1	0.87	0.26	53,53,53,53	0
88	MG	1	3971	1/1	0.87	0.31	41,41,41,41	0
87	OHX	6	2001	7/7	0.87	0.29	68,68,68,68	7
87	OHX	1	3666	7/7	0.87	0.27	50,50,50,50	7
88	MG	5	4205	1/1	0.87	0.15	50,50,50,50	0
88	MG	1	3977	1/1	0.87	0.20	51,51,51,51	0
88	MG	5	4210	1/1	0.87	0.12	52,52,52,52	0
88	MG	5	4213	1/1	0.87	0.34	66,66,66,66	0
88	MG	1	4276	1/1	0.87	0.13	76,76,76,76	0
88	MG	2	2166	1/1	0.87	0.24	55,55,55,55	0
87	OHX	5	3791	7/7	0.87	0.33	54,54,54,54	7
88	MG	1	4290	1/1	0.87	0.21	58,58,58,58	0
87	OHX	5	3725	7/7	0.87	0.33	58,58,58,58	7
87	OHX	3	210	7/7	0.87	0.36	53,53,53,53	7
88	MG	1	4011	1/1	0.87	0.36	53,53,53,53	0
88	MG	5	4257	1/1	0.87	0.07	44,44,44,44	0
87	OHX	2	2024	7/7	0.87	0.18	91,91,91,91	7
88	MG	2	2110	1/1	0.87	0.20	66,66,66,66	0
88	MG	1	4307	1/1	0.87	0.17	57,57,57,57	1
87	OHX	1	3669	7/7	0.87	0.33	47,47,47,47	7
87	OHX	5	3647	7/7	0.87	0.29	63,63,63,63	7
88	MG	2	2115	1/1	0.87	0.44	71,71,71,71	0
87	OHX	5	3650	7/7	0.87	0.37	55,55,55,55	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4326	1/1	0.87	0.11	59,59,59,59	0
88	MG	6	2113	1/1	0.87	0.14	75,75,75,75	0
88	MG	s6	301	1/1	0.87	0.15	71,71,71,71	0
87	OHX	6	2082	7/7	0.87	0.34	54,54,54,54	7
88	MG	1	4336	1/1	0.87	0.13	49,49,49,49	1
87	OHX	6	2050	7/7	0.87	0.11	132,132,132,132	7
88	MG	5	4327	1/1	0.87	0.14	62,62,62,62	0
88	MG	1	3823	1/1	0.87	0.18	67,67,67,67	0
88	MG	5	4330	1/1	0.87	0.17	37,37,37,37	0
87	OHX	4	212	7/7	0.87	0.35	42,42,42,42	7
87	OHX	1	3698	7/7	0.87	0.39	42,42,42,42	7
88	MG	5	4338	1/1	0.87	0.21	34,34,34,34	0
87	OHX	1	3567	7/7	0.87	0.24	64,64,64,64	7
87	OHX	2	1960	7/7	0.87	0.19	97,97,97,97	7
88	MG	1	3845	1/1	0.87	0.19	44,44,44,44	0
87	OHX	4	217	7/7	0.87	0.32	70,70,70,70	7
88	MG	5	4364	1/1	0.87	0.18	53,53,53,53	1
88	MG	1	4067	1/1	0.87	0.35	40,40,40,40	0
87	OHX	5	3749	7/7	0.87	0.29	49,49,49,49	7
87	OHX	1	3657	7/7	0.87	0.44	45,45,45,45	7
87	OHX	7	210	7/7	0.87	0.32	52,52,52,52	7
87	OHX	5	3679	7/7	0.87	0.31	60,60,60,60	7
88	MG	1	4395	1/1	0.87	0.12	54,54,54,54	0
88	MG	5	4404	1/1	0.87	0.12	57,57,57,57	0
88	MG	5	3845	1/1	0.87	0.18	34,34,34,34	0
88	MG	1	4084	1/1	0.87	0.18	52,52,52,52	0
88	MG	1	4419	1/1	0.87	0.76	40,40,40,40	1
88	MG	1	4422	1/1	0.87	0.20	63,63,63,63	0
88	MG	5	3874	1/1	0.87	0.26	54,54,54,54	0
88	MG	2	2133	1/1	0.87	0.26	76,76,76,76	0
88	MG	5	4440	1/1	0.87	0.08	39,39,39,39	0
88	MG	5	4451	1/1	0.87	0.22	37,37,37,37	1
87	OHX	6	2057	7/7	0.87	0.27	78,78,78,78	7
88	MG	5	4453	1/1	0.87	0.12	54,54,54,54	0
87	OHX	2	2043	7/7	0.87	0.14	119,119,119,119	7
87	OHX	M7	201	7/7	0.87	0.57	42,42,42,42	7
87	OHX	s1	302	7/7	0.87	0.17	93,93,93,93	7
87	OHX	1	3608	7/7	0.87	0.40	46,46,46,46	7
87	OHX	5	3760	7/7	0.87	0.23	71,71,71,71	7
88	MG	5	4495	1/1	0.87	0.23	55,55,55,55	0
88	MG	1	4451	1/1	0.87	0.20	43,43,43,43	0
88	MG	5	3914	1/1	0.87	0.16	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4458	1/1	0.87	0.23	53,53,53,53	0
88	MG	1	4123	1/1	0.87	0.18	49,49,49,49	0
88	MG	6	2179	1/1	0.87	0.17	67,67,67,67	0
88	MG	6	2180	1/1	0.87	0.17	52,52,52,52	0
87	OHX	1	3756	7/7	0.87	0.36	52,52,52,52	7
88	MG	6	2185	1/1	0.87	0.23	44,44,44,44	0
87	OHX	5	3532	7/7	0.87	0.34	53,53,53,53	7
88	MG	5	4549	1/1	0.87	1.05	50,50,50,50	1
88	MG	5	4551	1/1	0.87	0.08	53,53,53,53	0
87	OHX	6	2027	7/7	0.87	0.27	83,83,83,83	7
88	MG	6	2194	1/1	0.87	0.17	52,52,52,52	0
87	OHX	5	3696	7/7	0.87	0.31	43,43,43,43	7
88	MG	6	2199	1/1	0.87	0.38	83,83,83,83	0
88	MG	7	219	1/1	0.87	0.18	58,58,58,58	0
88	MG	5	3971	1/1	0.87	0.22	74,74,74,74	0
87	OHX	1	3660	7/7	0.87	0.29	65,65,65,65	7
88	MG	7	234	1/1	0.87	0.26	60,60,60,60	0
88	MG	1	3907	1/1	0.87	0.24	40,40,40,40	0
88	MG	8	232	1/1	0.87	0.28	64,64,64,64	0
87	OHX	m0	304	7/7	0.87	0.47	43,43,43,43	7
87	OHX	5	3597	7/7	0.87	0.23	89,89,89,89	7
88	MG	5	3988	1/1	0.87	0.33	33,33,33,33	0
87	OHX	5	3773	7/7	0.87	0.43	38,38,38,38	7
88	MG	5	4009	1/1	0.87	0.27	39,39,39,39	0
88	MG	1	3918	1/1	0.87	0.20	58,58,58,58	0
87	OHX	2	1994	7/7	0.87	0.17	111,111,111,111	7
88	MG	5	4022	1/1	0.87	0.33	37,37,37,37	0
88	MG	1	4152	1/1	0.87	0.08	60,60,60,60	0
88	MG	2	2223	1/1	0.87	0.26	69,69,69,69	0
88	MG	1	4493	1/1	0.87	0.11	51,51,51,51	0
87	OHX	5	3775	7/7	0.87	0.17	122,122,122,122	7
88	MG	2	2151	1/1	0.87	0.28	58,58,58,58	0
87	OHX	5	3603	7/7	0.87	0.18	112,112,112,112	7
88	MG	5	4072	1/1	0.87	0.25	56,56,56,56	0
87	OHX	6	2031	7/7	0.87	0.21	81,81,81,81	7
87	OHX	1	3681	7/7	0.87	0.18	95,95,95,95	7
88	MG	6	2230	1/1	0.87	0.29	59,59,59,59	0
88	MG	6	2232	1/1	0.87	0.14	53,53,53,53	0
88	MG	1	3937	1/1	0.87	0.30	36,36,36,36	0
90	PRO	B	3501	7/8	0.87	0.27	71,71,71,71	0
88	MG	S8	302	1/1	0.88	0.09	69,69,69,69	1
88	MG	6	2174	1/1	0.88	0.25	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3576	7/7	0.88	0.34	63,63,63,63	7
88	MG	1	4487	1/1	0.88	0.13	36,36,36,36	0
88	MG	5	3825	1/1	0.88	0.23	39,39,39,39	0
88	MG	5	3830	1/1	0.88	0.21	46,46,46,46	0
88	MG	1	4207	1/1	0.88	0.17	58,58,58,58	0
88	MG	5	4245	1/1	0.88	0.15	60,60,60,60	0
87	OHX	5	3685	7/7	0.88	0.15	116,116,116,116	7
88	MG	1	3990	1/1	0.88	0.46	56,56,56,56	0
87	OHX	6	2067	7/7	0.88	0.35	70,70,70,70	7
88	MG	5	3846	1/1	0.88	0.20	65,65,65,65	0
88	MG	5	3847	1/1	0.88	0.12	36,36,36,36	0
87	OHX	6	2033	7/7	0.88	0.24	67,67,67,67	7
87	OHX	1	3732	7/7	0.88	0.15	113,113,113,113	7
88	MG	5	3867	1/1	0.88	0.26	36,36,36,36	0
87	OHX	6	2035	7/7	0.88	0.19	82,82,82,82	7
87	OHX	5	3693	7/7	0.88	0.49	44,44,44,44	7
87	OHX	1	3780	7/7	0.88	0.28	66,66,66,66	7
88	MG	5	3883	1/1	0.88	0.15	34,34,34,34	0
87	OHX	6	1997	7/7	0.88	0.19	94,94,94,94	7
88	MG	3	221	1/1	0.88	0.11	70,70,70,70	0
88	MG	1	4021	1/1	0.88	0.18	39,39,39,39	0
87	OHX	6	2038	7/7	0.88	0.17	88,88,88,88	7
87	OHX	1	3668	7/7	0.88	0.36	46,46,46,46	7
87	OHX	2	2085	7/7	0.88	0.25	93,93,93,93	7
88	MG	6	2206	1/1	0.88	0.25	67,67,67,67	0
88	MG	1	3847	1/1	0.88	0.19	53,53,53,53	0
88	MG	5	4332	1/1	0.88	0.24	69,69,69,69	0
87	OHX	1	3715	7/7	0.88	0.23	86,86,86,86	7
87	OHX	1	3689	7/7	0.88	0.17	81,81,81,81	7
88	MG	5	3925	1/1	0.88	0.22	39,39,39,39	0
88	MG	5	3927	1/1	0.88	0.18	42,42,42,42	0
88	MG	5	4344	1/1	0.88	0.29	46,46,46,46	1
87	OHX	13	402	7/7	0.88	0.21	73,73,73,73	7
88	MG	5	4350	1/1	0.88	0.17	61,61,61,61	0
88	MG	5	4351	1/1	0.88	0.11	53,53,53,53	0
87	OHX	14	401	7/7	0.88	0.22	69,69,69,69	7
87	OHX	1	3501	7/7	0.88	0.34	50,50,50,50	7
88	MG	5	4365	1/1	0.88	0.21	52,52,52,52	1
88	MG	2	2202	1/1	0.88	0.15	69,69,69,69	0
88	MG	1	4296	1/1	0.88	0.16	46,46,46,46	0
88	MG	6	2220	1/1	0.88	0.14	47,47,47,47	0
88	MG	5	3960	1/1	0.88	0.26	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3709	7/7	0.88	0.28	70,70,70,70	7
88	MG	5	3965	1/1	0.88	0.27	41,41,41,41	0
88	MG	6	2223	1/1	0.88	0.14	52,52,52,52	0
87	OHX	1	3740	7/7	0.88	0.37	60,60,60,60	7
87	OHX	1	3615	7/7	0.88	0.24	70,70,70,70	7
87	OHX	1	3673	7/7	0.88	0.25	74,74,74,74	7
87	OHX	1	3620	7/7	0.88	0.20	63,63,63,63	7
87	OHX	m7	201	7/7	0.88	0.29	49,49,49,49	7
88	MG	1	4079	1/1	0.88	0.20	29,29,29,29	0
88	MG	5	4430	1/1	0.88	0.15	93,93,93,93	0
87	OHX	5	3718	7/7	0.88	0.21	76,76,76,76	7
87	OHX	2	2002	7/7	0.88	0.25	86,86,86,86	7
88	MG	5	4002	1/1	0.88	0.32	37,37,37,37	0
88	MG	2	2215	1/1	0.88	0.30	78,78,78,78	0
87	OHX	o7	503	7/7	0.88	0.39	53,53,53,53	7
88	MG	5	4469	1/1	0.88	0.11	49,49,49,49	0
88	MG	5	4018	1/1	0.88	0.30	31,31,31,31	0
87	OHX	5	3645	7/7	0.88	0.32	41,41,41,41	7
87	OHX	L3	403	7/7	0.88	0.17	85,85,85,85	7
88	MG	5	4026	1/1	0.88	0.39	34,34,34,34	0
87	OHX	L5	301	7/7	0.88	0.23	78,78,78,78	7
88	MG	1	4111	1/1	0.88	0.22	49,49,49,49	0
88	MG	2	2222	1/1	0.88	0.10	80,80,80,80	0
88	MG	5	4056	1/1	0.88	0.15	45,45,45,45	0
88	MG	1	4119	1/1	0.88	0.29	56,56,56,56	0
87	OHX	1	3633	7/7	0.88	0.26	76,76,76,76	7
87	OHX	2	2040	7/7	0.88	0.23	88,88,88,88	7
87	OHX	5	3787	7/7	0.88	0.33	68,68,68,68	7
88	MG	6	2104	1/1	0.88	0.27	52,52,52,52	0
88	MG	2	2228	1/1	0.88	0.27	56,56,56,56	0
87	OHX	M0	304	7/7	0.88	0.21	96,96,96,96	7
87	OHX	5	3731	7/7	0.88	0.24	62,62,62,62	7
88	MG	5	4096	1/1	0.88	0.20	32,32,32,32	0
88	MG	5	4555	1/1	0.88	0.25	73,73,73,73	1
88	MG	5	4559	1/1	0.88	0.24	85,85,85,85	0
88	MG	1	4394	1/1	0.88	0.10	72,72,72,72	0
87	OHX	5	3734	7/7	0.88	0.26	53,53,53,53	7
88	MG	1	4396	1/1	0.88	0.27	59,59,59,59	0
87	OHX	1	3800	7/7	0.88	0.31	67,67,67,67	7
88	MG	1	4401	1/1	0.88	0.12	44,44,44,44	0
88	MG	5	4127	1/1	0.88	0.15	35,35,35,35	1
88	MG	1	4418	1/1	0.88	0.28	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	2	1968	7/7	0.88	0.24	77,77,77,77	7
87	OHX	5	3669	7/7	0.88	0.33	44,44,44,44	7
87	OHX	6	2025	7/7	0.88	0.12	113,113,113,113	7
88	MG	1	4146	1/1	0.88	0.20	73,73,73,73	0
88	MG	2	2248	1/1	0.88	0.20	78,78,78,78	0
88	MG	5	4147	1/1	0.88	0.18	52,52,52,52	0
88	MG	1	3945	1/1	0.88	0.23	31,31,31,31	0
87	OHX	5	3671	7/7	0.88	0.32	49,49,49,49	7
88	MG	1	4155	1/1	0.88	0.23	45,45,45,45	0
88	MG	1	4165	1/1	0.88	0.33	72,72,72,72	0
87	OHX	1	3704	7/7	0.88	0.17	103,103,103,103	7
87	OHX	5	3674	7/7	0.88	0.28	51,51,51,51	7
88	MG	18	301	1/1	0.88	0.28	70,70,70,70	0
87	OHX	1	3753	7/7	0.88	0.60	49,49,49,49	7
88	MG	2	2112	1/1	0.88	0.20	69,69,69,69	0
88	MG	m7	206	1/1	0.88	0.19	35,35,35,35	0
87	OHX	1	3650	7/7	0.88	0.26	65,65,65,65	7
88	MG	2	2172	1/1	0.88	0.22	65,65,65,65	0
88	MG	1	4468	1/1	0.88	0.28	61,61,61,61	0
88	MG	1	4178	1/1	0.88	0.10	55,55,55,55	0
88	MG	6	2163	1/1	0.88	0.33	40,40,40,40	0
87	OHX	5	3538	7/7	0.88	0.22	84,84,84,84	7
88	MG	2	2174	1/1	0.88	0.27	68,68,68,68	0
87	OHX	5	3681	7/7	0.88	0.15	88,88,88,88	7
87	OHX	2	2038	7/7	0.88	0.28	85,85,85,85	7
87	OHX	5	3797	7/7	0.89	0.27	66,66,66,66	7
88	MG	1	4420	1/1	0.89	0.09	54,54,54,54	0
87	OHX	2	1961	7/7	0.89	0.16	112,112,112,112	7
88	MG	6	2130	1/1	0.89	0.11	55,55,55,55	0
87	OHX	5	3642	7/7	0.89	0.26	52,52,52,52	7
88	MG	5	4194	1/1	0.89	0.27	43,43,43,43	0
88	MG	1	4428	1/1	0.89	0.13	47,47,47,47	1
88	MG	6	2133	1/1	0.89	0.07	39,39,39,39	0
88	MG	1	3988	1/1	0.89	0.29	27,27,27,27	0
87	OHX	s8	301	7/7	0.89	0.17	104,104,104,104	7
88	MG	1	4434	1/1	0.89	0.16	64,64,64,64	0
87	OHX	1	3555	7/7	0.89	0.20	90,90,90,90	7
88	MG	1	3999	1/1	0.89	0.30	44,44,44,44	0
88	MG	5	4224	1/1	0.89	0.12	44,44,44,44	0
88	MG	5	4225	1/1	0.89	0.17	43,43,43,43	0
88	MG	6	2144	1/1	0.89	0.17	55,55,55,55	0
88	MG	6	2146	1/1	0.89	0.34	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	c5	202	7/7	0.89	0.15	98,98,98,98	7
88	MG	5	3817	1/1	0.89	0.26	54,54,54,54	0
88	MG	5	3819	1/1	0.89	0.28	33,33,33,33	0
88	MG	1	4004	1/1	0.89	0.26	52,52,52,52	0
88	MG	1	4005	1/1	0.89	0.35	48,48,48,48	0
88	MG	1	4456	1/1	0.89	0.16	75,75,75,75	0
88	MG	1	4008	1/1	0.89	0.29	35,35,35,35	0
88	MG	1	4460	1/1	0.89	0.33	60,60,60,60	0
88	MG	1	4187	1/1	0.89	0.14	90,90,90,90	0
88	MG	1	4191	1/1	0.89	0.42	52,52,52,52	0
88	MG	1	4192	1/1	0.89	0.20	55,55,55,55	0
88	MG	2	2103	1/1	0.89	0.12	65,65,65,65	0
88	MG	6	2170	1/1	0.89	0.07	49,49,49,49	0
88	MG	5	3864	1/1	0.89	0.21	36,36,36,36	0
88	MG	5	3865	1/1	0.89	0.20	62,62,62,62	0
88	MG	5	3866	1/1	0.89	0.21	34,34,34,34	0
88	MG	1	4010	1/1	0.89	0.28	49,49,49,49	0
87	OHX	5	3646	7/7	0.89	0.25	46,46,46,46	7
88	MG	5	4325	1/1	0.89	0.18	47,47,47,47	0
87	OHX	1	3612	7/7	0.89	0.32	60,60,60,60	7
87	OHX	2	2088	7/7	0.89	0.14	94,94,94,94	7
87	OHX	5	3706	7/7	0.89	0.31	79,79,79,79	7
87	OHX	5	3707	7/7	0.89	0.22	83,83,83,83	7
88	MG	1	4212	1/1	0.89	0.38	52,52,52,52	1
88	MG	5	3892	1/1	0.89	0.10	50,50,50,50	0
88	MG	5	3900	1/1	0.89	0.25	44,44,44,44	0
87	OHX	1	3692	7/7	0.89	0.23	63,63,63,63	7
87	OHX	5	3762	7/7	0.89	0.24	66,66,66,66	7
88	MG	5	4343	1/1	0.89	0.09	60,60,60,60	0
88	MG	1	3877	1/1	0.89	0.20	47,47,47,47	0
88	MG	6	2187	1/1	0.89	0.08	77,77,77,77	0
88	MG	5	4347	1/1	0.89	0.19	59,59,59,59	0
88	MG	1	3879	1/1	0.89	0.24	48,48,48,48	0
87	OHX	5	3653	7/7	0.89	0.37	41,41,41,41	7
88	MG	5	3916	1/1	0.89	0.13	41,41,41,41	0
88	MG	2	2167	1/1	0.89	0.18	84,84,84,84	0
87	OHX	5	3545	7/7	0.89	0.34	55,55,55,55	7
88	MG	1	4237	1/1	0.89	0.22	57,57,57,57	0
88	MG	5	4377	1/1	0.89	0.28	79,79,79,79	0
87	OHX	5	3658	7/7	0.89	0.34	45,45,45,45	7
88	MG	5	3930	1/1	0.89	0.30	35,35,35,35	0
88	MG	1	4245	1/1	0.89	0.12	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4051	1/1	0.89	0.20	51,51,51,51	0
88	MG	3	219	1/1	0.89	0.37	63,63,63,63	0
87	OHX	5	3659	7/7	0.89	0.30	57,57,57,57	7
88	MG	2	2231	1/1	0.89	0.23	82,82,82,82	0
87	OHX	6	2030	7/7	0.89	0.11	105,105,105,105	7
88	MG	5	3959	1/1	0.89	0.20	43,43,43,43	0
88	MG	2	2239	1/1	0.89	0.19	86,86,86,86	0
88	MG	1	4066	1/1	0.89	0.14	70,70,70,70	0
88	MG	3	227	1/1	0.89	0.16	78,78,78,78	0
88	MG	1	4284	1/1	0.89	0.18	52,52,52,52	0
88	MG	5	4438	1/1	0.89	0.69	34,34,34,34	1
87	OHX	1	3563	7/7	0.89	0.39	48,48,48,48	7
88	MG	4	219	1/1	0.89	0.14	64,64,64,64	0
88	MG	1	3908	1/1	0.89	0.07	52,52,52,52	0
88	MG	6	2219	1/1	0.89	0.30	60,60,60,60	0
87	OHX	1	3566	7/7	0.89	0.33	41,41,41,41	7
87	OHX	M9	202	7/7	0.89	0.23	78,78,78,78	7
88	MG	5	3979	1/1	0.89	0.23	35,35,35,35	0
88	MG	5	4472	1/1	0.89	0.11	46,46,46,46	0
88	MG	5	4475	1/1	0.89	0.23	56,56,56,56	1
88	MG	5	3981	1/1	0.89	0.40	50,50,50,50	0
88	MG	5	4478	1/1	0.89	0.21	45,45,45,45	1
87	OHX	5	3721	7/7	0.89	0.23	75,75,75,75	7
87	OHX	1	3627	7/7	0.89	0.34	51,51,51,51	7
87	OHX	1	3629	7/7	0.89	0.19	79,79,79,79	7
87	OHX	5	3606	7/7	0.89	0.31	60,60,60,60	7
87	OHX	2	2022	7/7	0.89	0.27	66,66,66,66	7
88	MG	5	4014	1/1	0.89	0.11	34,34,34,34	0
87	OHX	6	1968	7/7	0.89	0.28	74,74,74,74	7
87	OHX	m0	303	7/7	0.89	0.20	86,86,86,86	7
88	MG	5	4531	1/1	0.89	0.22	56,56,56,56	0
88	MG	4	242	1/1	0.89	0.11	57,57,57,57	1
87	OHX	6	2040	7/7	0.89	0.34	58,58,58,58	7
88	MG	5	4030	1/1	0.89	0.09	45,45,45,45	0
88	MG	1	4104	1/1	0.89	0.11	56,56,56,56	0
88	MG	5	4038	1/1	0.89	0.27	35,35,35,35	0
88	MG	5	4550	1/1	0.89	0.14	43,43,43,43	0
88	MG	M0	306	1/1	0.89	0.10	53,53,53,53	0
88	MG	1	4110	1/1	0.89	0.07	67,67,67,67	0
87	OHX	5	3732	7/7	0.89	0.18	93,93,93,93	7
87	OHX	5	3616	7/7	0.89	0.35	42,42,42,42	7
87	OHX	6	1981	7/7	0.89	0.30	45,45,45,45	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4120	1/1	0.89	0.08	46,46,46,46	0
87	OHX	1	3701	7/7	0.89	0.25	64,64,64,64	7
87	OHX	2	2000	7/7	0.89	0.20	110,110,110,110	7
88	MG	5	4089	1/1	0.89	0.14	34,34,34,34	0
87	OHX	2	2082	7/7	0.89	0.10	137,137,137,137	7
88	MG	N8	202	1/1	0.89	0.20	37,37,37,37	0
88	MG	8	224	1/1	0.89	0.25	52,52,52,52	0
88	MG	1	4348	1/1	0.89	0.14	52,52,52,52	0
88	MG	8	231	1/1	0.89	0.18	50,50,50,50	0
88	MG	D6	102	1/1	0.89	0.15	77,77,77,77	0
88	MG	O5	201	1/1	0.89	0.09	58,58,58,58	0
87	OHX	1	3644	7/7	0.89	0.29	65,65,65,65	7
87	OHX	6	2046	7/7	0.89	0.19	100,100,100,100	7
88	MG	1	4357	1/1	0.89	0.25	67,67,67,67	0
88	MG	SM	201	1/1	0.89	0.24	55,55,55,55	0
88	MG	6	2289	1/1	0.89	0.19	57,57,57,57	0
88	MG	l3	403	1/1	0.89	0.34	26,26,26,26	0
88	MG	1	4136	1/1	0.89	0.19	39,39,39,39	0
88	MG	1	4365	1/1	0.89	0.10	43,43,43,43	0
87	OHX	5	3792	7/7	0.89	0.27	63,63,63,63	7
88	MG	1	4140	1/1	0.89	0.09	41,41,41,41	0
88	MG	1	4374	1/1	0.89	0.25	41,41,41,41	1
88	MG	m4	202	1/1	0.89	0.12	53,53,53,53	1
88	MG	1	3963	1/1	0.89	0.29	40,40,40,40	0
88	MG	6	2110	1/1	0.89	0.18	82,82,82,82	0
87	OHX	5	3690	7/7	0.89	0.30	55,55,55,55	7
88	MG	6	2313	1/1	0.89	0.13	71,71,71,71	0
88	MG	6	2114	1/1	0.89	0.23	49,49,49,49	0
87	OHX	5	3743	7/7	0.89	0.20	66,66,66,66	7
88	MG	2	2201	1/1	0.89	0.12	61,61,61,61	0
88	MG	q2	503	1/1	0.89	0.09	42,42,42,42	1
87	OHX	5	3634	7/7	0.89	0.25	73,73,73,73	7
88	MG	6	2331	1/1	0.89	0.10	76,76,76,76	0
87	OHX	6	2071	7/7	0.89	0.35	55,55,55,55	7
88	MG	5	4174	1/1	0.89	0.17	38,38,38,38	1
88	MG	1	4150	1/1	0.89	0.21	81,81,81,81	0
87	OHX	6	1985	7/7	0.90	0.23	90,90,90,90	7
88	MG	5	4156	1/1	0.90	0.08	67,67,67,67	0
88	MG	1	3976	1/1	0.90	0.20	54,54,54,54	0
87	OHX	5	3604	7/7	0.90	0.32	44,44,44,44	7
88	MG	1	3979	1/1	0.90	0.25	40,40,40,40	0
88	MG	6	2321	1/1	0.90	0.09	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3841	1/1	0.90	0.19	44,44,44,44	0
88	MG	1	4393	1/1	0.90	0.16	38,38,38,38	1
87	OHX	1	3722	7/7	0.90	0.34	54,54,54,54	7
88	MG	6	2112	1/1	0.90	0.25	42,42,42,42	0
88	MG	2	2118	1/1	0.90	0.26	46,46,46,46	0
88	MG	1	3849	1/1	0.90	0.30	41,41,41,41	0
88	MG	1	4157	1/1	0.90	0.17	47,47,47,47	0
87	OHX	1	3541	7/7	0.90	0.21	91,91,91,91	7
88	MG	5	4191	1/1	0.90	0.41	35,35,35,35	1
88	MG	6	2119	1/1	0.90	0.31	59,59,59,59	0
88	MG	s8	303	1/1	0.90	0.22	46,46,46,46	0
88	MG	5	4198	1/1	0.90	0.16	32,32,32,32	1
88	MG	s8	305	1/1	0.90	0.14	56,56,56,56	0
88	MG	1	4404	1/1	0.90	0.09	56,56,56,56	1
87	OHX	1	3636	7/7	0.90	0.19	83,83,83,83	7
88	MG	5	4209	1/1	0.90	0.10	59,59,59,59	0
88	MG	c8	202	1/1	0.90	0.33	81,81,81,81	0
88	MG	1	4003	1/1	0.90	0.24	46,46,46,46	0
88	MG	2	2121	1/1	0.90	0.14	73,73,73,73	0
88	MG	1	4171	1/1	0.90	0.26	46,46,46,46	0
88	MG	5	4223	1/1	0.90	0.11	48,48,48,48	0
88	MG	1	3859	1/1	0.90	0.19	38,38,38,38	0
87	OHX	2	2009	7/7	0.90	0.27	70,70,70,70	7
88	MG	d2	201	1/1	0.90	0.20	46,46,46,46	0
88	MG	5	4232	1/1	0.90	0.16	42,42,42,42	0
88	MG	d3	201	1/1	0.90	0.18	47,47,47,47	0
87	OHX	l5	301	7/7	0.90	0.18	90,90,90,90	7
87	OHX	4	213	7/7	0.90	0.25	64,64,64,64	7
88	MG	2	2227	1/1	0.90	0.08	63,63,63,63	0
88	MG	1	4184	1/1	0.90	0.23	47,47,47,47	0
87	OHX	5	3748	7/7	0.90	0.29	49,49,49,49	7
87	OHX	5	3618	7/7	0.90	0.24	74,74,74,74	7
87	OHX	5	3750	7/7	0.90	0.08	161,161,161,161	7
88	MG	2	2129	1/1	0.90	0.17	66,66,66,66	0
88	MG	1	4455	1/1	0.90	0.35	46,46,46,46	1
88	MG	5	4289	1/1	0.90	0.13	43,43,43,43	0
88	MG	1	4023	1/1	0.90	0.21	43,43,43,43	0
88	MG	5	3837	1/1	0.90	0.31	43,43,43,43	0
88	MG	5	3839	1/1	0.90	0.21	62,62,62,62	0
88	MG	1	4195	1/1	0.90	0.23	46,46,46,46	0
88	MG	1	4196	1/1	0.90	0.14	51,51,51,51	0
88	MG	1	3882	1/1	0.90	0.19	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4315	1/1	0.90	0.16	59,59,59,59	0
87	OHX	2	1988	7/7	0.90	0.22	80,80,80,80	7
88	MG	1	4204	1/1	0.90	0.16	47,47,47,47	1
88	MG	5	4322	1/1	0.90	0.15	53,53,53,53	0
88	MG	6	2158	1/1	0.90	0.34	40,40,40,40	0
88	MG	1	4031	1/1	0.90	0.13	44,44,44,44	0
88	MG	2	2234	1/1	0.90	0.14	76,76,76,76	0
88	MG	1	4469	1/1	0.90	0.21	51,51,51,51	0
88	MG	1	4040	1/1	0.90	0.28	69,69,69,69	0
88	MG	6	2167	1/1	0.90	0.19	55,55,55,55	0
87	OHX	5	3714	7/7	0.90	0.10	136,136,136,136	7
88	MG	1	3893	1/1	0.90	0.20	43,43,43,43	0
87	OHX	5	3753	7/7	0.90	0.20	75,75,75,75	7
87	OHX	1	3611	7/7	0.90	0.23	68,68,68,68	7
87	OHX	1	3796	7/7	0.90	0.45	41,41,41,41	7
88	MG	1	4224	1/1	0.90	0.16	62,62,62,62	0
87	OHX	5	3678	7/7	0.90	0.22	75,75,75,75	7
88	MG	5	3894	1/1	0.90	0.30	39,39,39,39	0
88	MG	5	4346	1/1	0.90	0.15	44,44,44,44	1
88	MG	5	3898	1/1	0.90	0.22	71,71,71,71	0
88	MG	6	2177	1/1	0.90	0.10	80,80,80,80	0
87	OHX	5	3757	7/7	0.90	0.31	69,69,69,69	7
88	MG	2	2183	1/1	0.90	0.30	66,66,66,66	0
88	MG	5	4361	1/1	0.90	0.31	45,45,45,45	0
88	MG	1	4232	1/1	0.90	0.13	52,52,52,52	0
87	OHX	1	3797	7/7	0.90	0.25	57,57,57,57	7
87	OHX	1	3728	7/7	0.90	0.28	55,55,55,55	7
88	MG	1	4065	1/1	0.90	0.18	56,56,56,56	0
88	MG	6	2188	1/1	0.90	0.15	52,52,52,52	0
88	MG	1	4252	1/1	0.90	0.17	58,58,58,58	0
88	MG	1	4505	1/1	0.90	0.14	90,90,90,90	0
88	MG	1	4508	1/1	0.90	0.07	41,41,41,41	0
87	OHX	1	3710	7/7	0.90	0.31	45,45,45,45	7
87	OHX	2	2021	7/7	0.90	0.23	72,72,72,72	7
88	MG	3	215	1/1	0.90	0.35	51,51,51,51	0
88	MG	5	3936	1/1	0.90	0.31	34,34,34,34	0
87	OHX	1	3776	7/7	0.90	0.37	45,45,45,45	7
88	MG	1	4260	1/1	0.90	0.36	53,53,53,53	0
87	OHX	2	1992	7/7	0.90	0.25	75,75,75,75	7
88	MG	3	222	1/1	0.90	0.23	45,45,45,45	0
88	MG	5	3952	1/1	0.90	0.28	47,47,47,47	0
88	MG	1	4272	1/1	0.90	0.29	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4077	1/1	0.90	0.22	46,46,46,46	0
88	MG	1	3920	1/1	0.90	0.20	36,36,36,36	0
88	MG	1	4281	1/1	0.90	0.15	52,52,52,52	0
88	MG	5	3962	1/1	0.90	0.23	39,39,39,39	0
88	MG	3	228	1/1	0.90	0.17	78,78,78,78	0
88	MG	5	4464	1/1	0.90	0.21	43,43,43,43	0
88	MG	2	2256	1/1	0.90	0.10	66,66,66,66	0
87	OHX	C5	201	7/7	0.90	0.14	112,112,112,112	7
88	MG	5	3969	1/1	0.90	0.32	34,34,34,34	0
88	MG	1	3928	1/1	0.90	0.23	28,28,28,28	0
87	OHX	5	3810	7/7	0.90	0.17	70,70,70,70	7
88	MG	1	4091	1/1	0.90	0.08	41,41,41,41	0
88	MG	4	225	1/1	0.90	0.08	61,61,61,61	0
87	OHX	1	3716	7/7	0.90	0.13	104,104,104,104	7
87	OHX	5	3812	7/7	0.90	0.31	43,43,43,43	7
88	MG	5	4503	1/1	0.90	0.23	46,46,46,46	1
88	MG	1	4097	1/1	0.90	0.10	57,57,57,57	0
88	MG	4	233	1/1	0.90	0.20	67,67,67,67	0
88	MG	5	4514	1/1	0.90	0.17	41,41,41,41	0
88	MG	5	3991	1/1	0.90	0.36	34,34,34,34	0
88	MG	5	3992	1/1	0.90	0.30	31,31,31,31	0
88	MG	1	4301	1/1	0.90	0.16	59,59,59,59	0
88	MG	5	4001	1/1	0.90	0.23	30,30,30,30	0
88	MG	5	4532	1/1	0.90	0.43	42,42,42,42	1
87	OHX	5	3535	7/7	0.90	0.31	54,54,54,54	7
88	MG	5	4008	1/1	0.90	0.27	33,33,33,33	0
88	MG	5	4539	1/1	0.90	0.24	41,41,41,41	1
88	MG	1	4304	1/1	0.90	0.35	55,55,55,55	0
88	MG	1	4101	1/1	0.90	0.18	47,47,47,47	0
88	MG	6	2241	1/1	0.90	0.16	70,70,70,70	0
88	MG	C5	202	1/1	0.90	0.17	76,76,76,76	0
87	OHX	5	3770	7/7	0.90	0.21	66,66,66,66	7
88	MG	6	2247	1/1	0.90	0.14	50,50,50,50	0
88	MG	5	4023	1/1	0.90	0.24	41,41,41,41	0
87	OHX	5	3771	7/7	0.90	0.29	59,59,59,59	7
88	MG	5	4560	1/1	0.90	0.25	34,34,34,34	1
88	MG	L3	407	1/1	0.90	0.33	51,51,51,51	1
88	MG	L4	407	1/1	0.90	0.11	55,55,55,55	1
88	MG	1	3943	1/1	0.90	0.20	37,37,37,37	0
88	MG	7	213	1/1	0.90	0.19	46,46,46,46	0
88	MG	2	2152	1/1	0.90	0.12	88,88,88,88	0
88	MG	1	4118	1/1	0.90	0.11	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4335	1/1	0.90	0.14	73,73,73,73	1
88	MG	7	226	1/1	0.90	0.24	50,50,50,50	1
88	MG	7	233	1/1	0.90	0.07	45,45,45,45	0
88	MG	5	4058	1/1	0.90	0.22	39,39,39,39	0
88	MG	7	235	1/1	0.90	0.11	44,44,44,44	0
88	MG	6	2261	1/1	0.90	0.10	60,60,60,60	0
87	OHX	1	3570	7/7	0.90	0.30	56,56,56,56	7
88	MG	5	4068	1/1	0.90	0.17	55,55,55,55	0
88	MG	6	2263	1/1	0.90	0.17	40,40,40,40	0
88	MG	6	2266	1/1	0.90	0.10	71,71,71,71	0
88	MG	8	236	1/1	0.90	0.24	57,57,57,57	0
88	MG	5	4075	1/1	0.90	0.15	44,44,44,44	0
88	MG	5	4082	1/1	0.90	0.17	48,48,48,48	0
88	MG	6	2267	1/1	0.90	0.14	54,54,54,54	0
88	MG	5	4086	1/1	0.90	0.09	52,52,52,52	0
87	OHX	1	3626	7/7	0.90	0.30	57,57,57,57	7
88	MG	6	2271	1/1	0.90	0.16	42,42,42,42	0
88	MG	5	4093	1/1	0.90	0.15	40,40,40,40	0
88	MG	M7	202	1/1	0.90	0.41	52,52,52,52	0
87	OHX	1	3589	7/7	0.90	0.30	56,56,56,56	7
88	MG	1	3816	1/1	0.90	0.15	44,44,44,44	0
88	MG	l7	304	1/1	0.90	0.19	49,49,49,49	1
87	OHX	6	1961	7/7	0.90	0.24	65,65,65,65	7
88	MG	m0	305	1/1	0.90	0.26	32,32,32,32	0
88	MG	6	2277	1/1	0.90	0.07	48,48,48,48	0
87	OHX	2	2007	7/7	0.90	0.19	101,101,101,101	7
87	OHX	3	208	7/7	0.90	0.20	85,85,85,85	7
88	MG	O1	204	1/1	0.90	0.31	63,63,63,63	0
88	MG	1	4350	1/1	0.90	0.09	62,62,62,62	0
88	MG	n1	204	1/1	0.90	0.23	56,56,56,56	0
88	MG	n3	203	1/1	0.90	0.26	29,29,29,29	0
88	MG	1	3964	1/1	0.90	0.34	43,43,43,43	0
88	MG	1	3826	1/1	0.90	0.24	40,40,40,40	0
88	MG	n8	204	1/1	0.90	0.13	55,55,55,55	1
88	MG	O5	202	1/1	0.90	0.27	54,54,54,54	1
88	MG	o2	202	1/1	0.90	0.09	49,49,49,49	0
88	MG	o3	202	1/1	0.90	0.10	53,53,53,53	0
88	MG	o6	201	1/1	0.90	0.14	69,69,69,69	1
88	MG	1	3827	1/1	0.90	0.21	44,44,44,44	0
88	MG	1	3828	1/1	0.90	0.16	39,39,39,39	0
88	MG	Q0	203	1/1	0.90	0.30	52,52,52,52	0
87	OHX	1	3601	7/7	0.90	0.15	107,107,107,107	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4149	1/1	0.90	0.26	41,41,41,41	0
88	MG	2	2213	1/1	0.90	0.13	55,55,55,55	0
87	OHX	8	208	7/7	0.91	0.26	63,63,63,63	7
87	OHX	5	3583	7/7	0.91	0.26	53,53,53,53	7
88	MG	5	4203	1/1	0.91	0.38	62,62,62,62	0
88	MG	2	2208	1/1	0.91	0.13	72,72,72,72	0
88	MG	1	4440	1/1	0.91	0.24	41,41,41,41	1
88	MG	6	2141	1/1	0.91	0.16	40,40,40,40	0
87	OHX	5	3590	7/7	0.91	0.30	42,42,42,42	7
87	OHX	1	3749	7/7	0.91	0.26	51,51,51,51	7
88	MG	5	4219	1/1	0.91	0.10	53,53,53,53	0
87	OHX	6	1982	7/7	0.91	0.16	98,98,98,98	7
88	MG	5	3821	1/1	0.91	0.18	48,48,48,48	0
88	MG	1	4453	1/1	0.91	0.17	43,43,43,43	0
88	MG	6	2147	1/1	0.91	0.34	58,58,58,58	0
87	OHX	2	2006	7/7	0.91	0.28	72,72,72,72	7
88	MG	6	2152	1/1	0.91	0.20	50,50,50,50	0
88	MG	5	4231	1/1	0.91	0.24	38,38,38,38	0
87	OHX	2	1980	7/7	0.91	0.22	93,93,93,93	7
88	MG	1	4199	1/1	0.91	0.78	42,42,42,42	1
87	OHX	1	3695	7/7	0.91	0.38	44,44,44,44	7
88	MG	5	4243	1/1	0.91	0.22	37,37,37,37	0
87	OHX	2	2057	7/7	0.91	0.28	67,67,67,67	7
88	MG	6	2157	1/1	0.91	0.34	46,46,46,46	0
87	OHX	2	2003	7/7	0.91	0.14	103,103,103,103	7
88	MG	5	4252	1/1	0.91	0.17	44,44,44,44	0
88	MG	1	4030	1/1	0.91	0.15	54,54,54,54	0
88	MG	1	3876	1/1	0.91	0.18	49,49,49,49	0
88	MG	5	4264	1/1	0.91	0.18	46,46,46,46	0
88	MG	1	4467	1/1	0.91	0.38	33,33,33,33	1
88	MG	5	4278	1/1	0.91	0.10	39,39,39,39	0
88	MG	1	4037	1/1	0.91	0.19	33,33,33,33	0
87	OHX	1	3578	7/7	0.91	0.21	67,67,67,67	7
88	MG	5	4288	1/1	0.91	0.18	37,37,37,37	0
88	MG	1	4214	1/1	0.91	0.13	50,50,50,50	0
87	OHX	5	3613	7/7	0.91	0.21	74,74,74,74	7
88	MG	1	3880	1/1	0.91	0.11	50,50,50,50	0
88	MG	1	4479	1/1	0.91	0.22	59,59,59,59	0
88	MG	5	4305	1/1	0.91	0.11	74,74,74,74	0
87	OHX	15	302	7/7	0.91	0.19	88,88,88,88	7
87	OHX	15	303	7/7	0.91	0.20	69,69,69,69	7
88	MG	5	4309	1/1	0.91	0.21	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	2	2074	7/7	0.91	0.22	92,92,92,92	7
88	MG	1	4049	1/1	0.91	0.18	44,44,44,44	0
88	MG	1	4227	1/1	0.91	0.08	44,44,44,44	0
88	MG	5	3896	1/1	0.91	0.30	41,41,41,41	0
87	OHX	5	3617	7/7	0.91	0.24	43,43,43,43	7
87	OHX	5	3768	7/7	0.91	0.15	115,115,115,115	7
88	MG	6	2181	1/1	0.91	0.19	55,55,55,55	0
87	OHX	6	1999	7/7	0.91	0.18	85,85,85,85	7
88	MG	1	4491	1/1	0.91	0.29	71,71,71,71	0
88	MG	1	4059	1/1	0.91	0.30	53,53,53,53	0
87	OHX	1	3672	7/7	0.91	0.22	71,71,71,71	7
88	MG	5	3912	1/1	0.91	0.23	57,57,57,57	0
87	OHX	2	2032	7/7	0.91	0.19	82,82,82,82	7
88	MG	1	4248	1/1	0.91	0.13	58,58,58,58	0
88	MG	1	4504	1/1	0.91	0.33	37,37,37,37	1
88	MG	5	3919	1/1	0.91	0.13	35,35,35,35	0
88	MG	6	2196	1/1	0.91	0.15	45,45,45,45	1
88	MG	6	2197	1/1	0.91	0.28	60,60,60,60	0
87	OHX	5	3622	7/7	0.91	0.22	69,69,69,69	7
88	MG	5	3929	1/1	0.91	0.18	46,46,46,46	0
88	MG	1	4507	1/1	0.91	0.11	52,52,52,52	0
87	OHX	2	2001	7/7	0.91	0.18	82,82,82,82	7
88	MG	5	3934	1/1	0.91	0.43	28,28,28,28	0
87	OHX	5	3627	7/7	0.91	0.17	89,89,89,89	7
87	OHX	2	2036	7/7	0.91	0.11	123,123,123,123	7
88	MG	5	4362	1/1	0.91	0.21	41,41,41,41	0
88	MG	5	4363	1/1	0.91	0.16	44,44,44,44	0
87	OHX	6	2047	7/7	0.91	0.23	67,67,67,67	7
87	OHX	2	2011	7/7	0.91	0.22	69,69,69,69	7
88	MG	1	4073	1/1	0.91	0.16	54,54,54,54	0
88	MG	1	3914	1/1	0.91	0.16	57,57,57,57	0
88	MG	5	4381	1/1	0.91	0.25	34,34,34,34	1
87	OHX	5	3633	7/7	0.91	0.15	109,109,109,109	7
87	OHX	2	2050	7/7	0.91	0.16	96,96,96,96	7
88	MG	3	224	1/1	0.91	0.12	47,47,47,47	0
87	OHX	5	3637	7/7	0.91	0.31	52,52,52,52	7
88	MG	1	4285	1/1	0.91	0.21	57,57,57,57	0
88	MG	5	4400	1/1	0.91	0.23	38,38,38,38	1
87	OHX	1	3763	7/7	0.91	0.34	45,45,45,45	7
87	OHX	5	3717	7/7	0.91	0.25	50,50,50,50	7
87	OHX	1	3764	7/7	0.91	0.44	50,50,50,50	7
88	MG	5	4412	1/1	0.91	0.13	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3927	1/1	0.91	0.23	41,41,41,41	0
88	MG	6	2221	1/1	0.91	0.07	53,53,53,53	1
87	OHX	1	3517	7/7	0.91	0.29	59,59,59,59	7
87	OHX	2	2012	7/7	0.91	0.14	102,102,102,102	7
88	MG	6	2228	1/1	0.91	0.13	59,59,59,59	1
88	MG	1	4298	1/1	0.91	0.24	48,48,48,48	0
87	OHX	1	3613	7/7	0.91	0.39	36,36,36,36	7
87	OHX	6	2016	7/7	0.91	0.14	91,91,91,91	7
88	MG	5	3987	1/1	0.91	0.23	34,34,34,34	0
87	OHX	1	3543	7/7	0.91	0.32	56,56,56,56	7
88	MG	5	3989	1/1	0.91	0.34	29,29,29,29	0
88	MG	5	4463	1/1	0.91	0.09	37,37,37,37	0
88	MG	1	3936	1/1	0.91	0.23	38,38,38,38	0
88	MG	6	2238	1/1	0.91	0.10	66,66,66,66	0
88	MG	1	4105	1/1	0.91	0.08	46,46,46,46	0
88	MG	5	3999	1/1	0.91	0.28	27,27,27,27	0
88	MG	5	4000	1/1	0.91	0.27	42,42,42,42	0
88	MG	1	4308	1/1	0.91	0.19	41,41,41,41	0
88	MG	1	4109	1/1	0.91	0.15	49,49,49,49	0
88	MG	5	4006	1/1	0.91	0.41	46,46,46,46	0
88	MG	5	4488	1/1	0.91	0.15	41,41,41,41	1
87	OHX	s4	301	7/7	0.91	0.23	79,79,79,79	7
88	MG	6	2244	1/1	0.91	0.17	53,53,53,53	0
88	MG	1	4321	1/1	0.91	0.27	52,52,52,52	0
87	OHX	1	3801	7/7	0.91	0.23	73,73,73,73	7
88	MG	5	4016	1/1	0.91	0.25	30,30,30,30	0
87	OHX	6	2019	7/7	0.91	0.25	55,55,55,55	7
88	MG	5	4520	1/1	0.91	0.06	47,47,47,47	0
88	MG	2	2107	1/1	0.91	0.26	60,60,60,60	0
87	OHX	5	3652	7/7	0.91	0.33	58,58,58,58	7
88	MG	1	4328	1/1	0.91	0.28	37,37,37,37	1
87	OHX	1	3686	7/7	0.91	0.29	66,66,66,66	7
88	MG	M0	305	1/1	0.91	0.23	62,62,62,62	0
88	MG	1	4121	1/1	0.91	0.18	35,35,35,35	0
88	MG	1	4338	1/1	0.91	0.17	58,58,58,58	0
88	MG	5	4039	1/1	0.91	0.22	37,37,37,37	0
88	MG	5	4049	1/1	0.91	0.32	44,44,44,44	0
87	OHX	2	2015	7/7	0.91	0.17	87,87,87,87	7
88	MG	1	4342	1/1	0.91	0.14	48,48,48,48	1
87	OHX	5	3656	7/7	0.91	0.71	42,42,42,42	7
88	MG	1	3951	1/1	0.91	0.21	36,36,36,36	0
88	MG	5	4060	1/1	0.91	0.08	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	6	2269	1/1	0.91	0.15	89,89,89,89	0
88	MG	1	3953	1/1	0.91	0.16	34,34,34,34	0
87	OHX	5	3657	7/7	0.91	0.25	50,50,50,50	7
88	MG	N3	201	1/1	0.91	0.33	39,39,39,39	0
88	MG	1	4347	1/1	0.91	0.15	43,43,43,43	0
88	MG	5	4074	1/1	0.91	0.09	41,41,41,41	0
87	OHX	5	3505	7/7	0.91	0.24	66,66,66,66	7
88	MG	7	215	1/1	0.91	0.30	53,53,53,53	0
88	MG	1	4132	1/1	0.91	0.19	58,58,58,58	0
88	MG	N8	203	1/1	0.91	0.21	33,33,33,33	0
88	MG	O1	203	1/1	0.91	0.26	57,57,57,57	0
87	OHX	5	3519	7/7	0.91	0.15	120,120,120,120	7
88	MG	7	228	1/1	0.91	0.07	38,38,38,38	0
88	MG	O2	202	1/1	0.91	0.27	32,32,32,32	0
88	MG	O2	204	1/1	0.91	0.18	33,33,33,33	0
88	MG	1	4354	1/1	0.91	0.17	51,51,51,51	0
88	MG	7	239	1/1	0.91	0.11	53,53,53,53	1
88	MG	8	223	1/1	0.91	0.14	60,60,60,60	0
87	OHX	1	3621	7/7	0.91	0.33	61,61,61,61	7
88	MG	8	229	1/1	0.91	0.09	52,52,52,52	0
88	MG	6	2296	1/1	0.91	0.14	54,54,54,54	1
87	OHX	5	3665	7/7	0.91	0.32	37,37,37,37	7
87	OHX	O3	201	7/7	0.91	0.31	49,49,49,49	7
88	MG	5	4106	1/1	0.91	0.27	50,50,50,50	0
88	MG	1	4142	1/1	0.91	0.13	50,50,50,50	0
87	OHX	1	3690	7/7	0.91	0.18	85,85,85,85	7
88	MG	5	4121	1/1	0.91	0.18	38,38,38,38	0
88	MG	1	3818	1/1	0.91	0.28	34,34,34,34	0
88	MG	l2	303	1/1	0.91	0.20	55,55,55,55	1
87	OHX	5	3544	7/7	0.91	0.26	48,48,48,48	7
88	MG	6	2307	1/1	0.91	0.17	68,68,68,68	0
87	OHX	6	1966	7/7	0.91	0.29	56,56,56,56	7
88	MG	1	4370	1/1	0.91	0.15	44,44,44,44	0
88	MG	l3	415	1/1	0.91	0.13	36,36,36,36	1
88	MG	6	2317	1/1	0.91	0.20	59,59,59,59	0
88	MG	1	3974	1/1	0.91	0.37	28,28,28,28	0
88	MG	5	4138	1/1	0.91	0.08	40,40,40,40	0
88	MG	1	4390	1/1	0.91	0.17	41,41,41,41	1
88	MG	1	4148	1/1	0.91	0.20	75,75,75,75	0
87	OHX	5	3557	7/7	0.91	0.31	51,51,51,51	7
87	OHX	5	3560	7/7	0.91	0.25	89,89,89,89	7
87	OHX	2	2025	7/7	0.91	0.17	94,94,94,94	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4152	1/1	0.91	0.17	41,41,41,41	0
87	OHX	5	4574	7/7	0.91	0.28	40,40,40,40	7
88	MG	m8	1503	1/1	0.91	0.14	52,52,52,52	0
88	MG	1	3831	1/1	0.91	0.20	41,41,41,41	0
88	MG	n0	203	1/1	0.91	0.19	41,41,41,41	0
88	MG	1	3982	1/1	0.91	0.14	54,54,54,54	0
88	MG	6	2115	1/1	0.91	0.26	75,75,75,75	0
88	MG	1	4402	1/1	0.91	0.11	46,46,46,46	1
88	MG	1	3833	1/1	0.91	0.25	41,41,41,41	0
88	MG	1	4409	1/1	0.91	0.10	52,52,52,52	1
88	MG	1	4410	1/1	0.91	0.16	50,50,50,50	1
88	MG	5	4175	1/1	0.91	0.25	44,44,44,44	0
88	MG	o2	203	1/1	0.91	0.42	34,34,34,34	1
88	MG	1	3989	1/1	0.91	0.23	28,28,28,28	0
88	MG	2	2127	1/1	0.91	0.26	60,60,60,60	0
87	OHX	5	3571	7/7	0.91	0.23	66,66,66,66	7
88	MG	2	2200	1/1	0.91	0.23	65,65,65,65	0
87	OHX	6	1971	7/7	0.91	0.22	85,85,85,85	7
88	MG	1	3844	1/1	0.91	0.21	46,46,46,46	0
87	OHX	5	3579	7/7	0.91	0.12	148,148,148,148	7
87	OHX	6	2069	7/7	0.91	0.19	78,78,78,78	7
88	MG	1	4134	1/1	0.92	0.11	46,46,46,46	0
88	MG	2	2235	1/1	0.92	0.14	102,102,102,102	1
88	MG	1	3995	1/1	0.92	0.26	32,32,32,32	0
88	MG	1	4137	1/1	0.92	0.10	51,51,51,51	0
88	MG	2	2108	1/1	0.92	0.47	59,59,59,59	0
88	MG	2	2240	1/1	0.92	0.25	66,66,66,66	0
88	MG	5	4259	1/1	0.92	0.23	32,32,32,32	1
88	MG	6	2201	1/1	0.92	0.10	83,83,83,83	0
88	MG	5	4263	1/1	0.92	0.09	38,38,38,38	0
88	MG	4	218	1/1	0.92	0.34	54,54,54,54	0
88	MG	1	4141	1/1	0.92	0.15	47,47,47,47	0
87	OHX	1	3559	7/7	0.92	0.29	50,50,50,50	7
87	OHX	5	3694	7/7	0.92	0.18	66,66,66,66	7
87	OHX	1	3561	7/7	0.92	0.20	84,84,84,84	7
88	MG	1	3891	1/1	0.92	0.19	44,44,44,44	0
88	MG	2	2246	1/1	0.92	0.19	77,77,77,77	0
88	MG	5	4291	1/1	0.92	0.31	43,43,43,43	0
88	MG	4	229	1/1	0.92	0.13	47,47,47,47	0
87	OHX	2	2048	7/7	0.92	0.21	83,83,83,83	7
88	MG	4	232	1/1	0.92	0.15	43,43,43,43	1
87	OHX	5	3697	7/7	0.92	0.10	120,120,120,120	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3507	7/7	0.92	0.24	66,66,66,66	7
88	MG	5	3932	1/1	0.92	0.21	28,28,28,28	0
87	OHX	2	2028	7/7	0.92	0.11	134,134,134,134	7
88	MG	5	4311	1/1	0.92	0.59	31,31,31,31	1
88	MG	1	3898	1/1	0.92	0.19	43,43,43,43	0
88	MG	5	3937	1/1	0.92	0.35	30,30,30,30	0
88	MG	5	3940	1/1	0.92	0.31	32,32,32,32	0
88	MG	5	4319	1/1	0.92	0.20	36,36,36,36	1
88	MG	5	4320	1/1	0.92	0.15	42,42,42,42	1
87	OHX	1	3795	7/7	0.92	0.26	54,54,54,54	7
87	OHX	5	3561	7/7	0.92	0.21	72,72,72,72	7
87	OHX	5	3703	7/7	0.92	0.23	46,46,46,46	7
88	MG	5	4324	1/1	0.92	0.16	53,53,53,53	0
87	OHX	5	3565	7/7	0.92	0.21	78,78,78,78	7
88	MG	5	3948	1/1	0.92	0.29	34,34,34,34	0
88	MG	6	2226	1/1	0.92	0.11	107,107,107,107	0
88	MG	1	3910	1/1	0.92	0.27	34,34,34,34	0
88	MG	1	4359	1/1	0.92	0.20	45,45,45,45	1
88	MG	1	4360	1/1	0.92	0.17	70,70,70,70	0
88	MG	6	2231	1/1	0.92	0.18	86,86,86,86	0
88	MG	1	3911	1/1	0.92	0.18	48,48,48,48	0
87	OHX	8	206	7/7	0.92	0.16	94,94,94,94	7
88	MG	1	4034	1/1	0.92	0.21	45,45,45,45	0
88	MG	6	2235	1/1	0.92	0.16	76,76,76,76	0
88	MG	1	4366	1/1	0.92	0.07	41,41,41,41	1
87	OHX	L4	401	7/7	0.92	0.22	59,59,59,59	7
88	MG	1	4176	1/1	0.92	0.08	58,58,58,58	0
88	MG	M6	204	1/1	0.92	0.19	39,39,39,39	1
88	MG	1	4038	1/1	0.92	0.15	50,50,50,50	0
88	MG	M7	203	1/1	0.92	0.37	36,36,36,36	0
88	MG	5	4352	1/1	0.92	0.15	45,45,45,45	0
87	OHX	1	3531	7/7	0.92	0.32	47,47,47,47	7
88	MG	5	4356	1/1	0.92	0.19	50,50,50,50	0
88	MG	1	4376	1/1	0.92	0.13	30,30,30,30	0
88	MG	5	3982	1/1	0.92	0.24	35,35,35,35	0
88	MG	1	4386	1/1	0.92	0.17	36,36,36,36	1
87	OHX	5	3573	7/7	0.92	0.22	53,53,53,53	7
88	MG	N3	203	1/1	0.92	0.21	51,51,51,51	0
87	OHX	6	2006	7/7	0.92	0.27	54,54,54,54	7
87	OHX	M0	301	7/7	0.92	0.31	49,49,49,49	7
88	MG	5	4378	1/1	0.92	0.14	47,47,47,47	0
88	MG	5	3995	1/1	0.92	0.47	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3767	7/7	0.92	0.27	60,60,60,60	7
87	OHX	1	3539	7/7	0.92	0.18	64,64,64,64	7
87	OHX	5	3712	7/7	0.92	0.26	60,60,60,60	7
87	OHX	1	3581	7/7	0.92	0.29	54,54,54,54	7
88	MG	5	4391	1/1	0.92	0.09	41,41,41,41	0
88	MG	O2	203	1/1	0.92	0.14	44,44,44,44	1
87	OHX	2	2008	7/7	0.92	0.24	83,83,83,83	7
88	MG	1	4052	1/1	0.92	0.12	44,44,44,44	0
88	MG	5	4405	1/1	0.92	0.28	39,39,39,39	0
87	OHX	1	3632	7/7	0.92	0.20	75,75,75,75	7
88	MG	1	4200	1/1	0.92	0.13	60,60,60,60	0
88	MG	5	4411	1/1	0.92	0.12	33,33,33,33	1
87	OHX	14	402	7/7	0.92	0.25	55,55,55,55	7
88	MG	1	4417	1/1	0.92	0.33	41,41,41,41	1
88	MG	5	4417	1/1	0.92	0.15	46,46,46,46	0
88	MG	1	4060	1/1	0.92	0.19	56,56,56,56	0
88	MG	Q0	202	1/1	0.92	0.15	54,54,54,54	0
87	OHX	5	3598	7/7	0.92	0.23	86,86,86,86	7
87	OHX	5	3600	7/7	0.92	0.23	70,70,70,70	7
88	MG	5	4024	1/1	0.92	0.31	38,38,38,38	0
88	MG	1	4421	1/1	0.92	0.24	46,46,46,46	1
88	MG	6	2100	1/1	0.92	0.07	60,60,60,60	0
87	OHX	M8	201	7/7	0.92	0.28	53,53,53,53	7
88	MG	5	4036	1/1	0.92	0.20	35,35,35,35	0
87	OHX	5	3661	7/7	0.92	0.37	47,47,47,47	7
88	MG	6	2288	1/1	0.92	0.12	65,65,65,65	0
88	MG	5	4046	1/1	0.92	0.11	42,42,42,42	0
87	OHX	5	3662	7/7	0.92	0.27	65,65,65,65	7
87	OHX	1	3592	7/7	0.92	0.22	70,70,70,70	7
88	MG	5	4052	1/1	0.92	0.21	40,40,40,40	0
88	MG	6	2107	1/1	0.92	0.19	47,47,47,47	0
87	OHX	6	2088	7/7	0.92	0.24	71,71,71,71	7
88	MG	5	4057	1/1	0.92	0.17	51,51,51,51	0
88	MG	5	4480	1/1	0.92	0.09	39,39,39,39	1
88	MG	1	4219	1/1	0.92	0.29	37,37,37,37	1
88	MG	1	3944	1/1	0.92	0.20	34,34,34,34	0
87	OHX	1	3598	7/7	0.92	0.09	152,152,152,152	7
88	MG	5	4064	1/1	0.92	0.28	42,42,42,42	0
88	MG	5	4500	1/1	0.92	0.16	39,39,39,39	1
88	MG	1	4439	1/1	0.92	0.22	41,41,41,41	1
87	OHX	1	3775	7/7	0.92	0.28	50,50,50,50	7
88	MG	1	4441	1/1	0.92	0.15	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	2	1998	7/7	0.92	0.18	94,94,94,94	7
87	OHX	1	3549	7/7	0.92	0.23	60,60,60,60	7
88	MG	6	2118	1/1	0.92	0.23	38,38,38,38	0
88	MG	5	4081	1/1	0.92	0.07	57,57,57,57	0
88	MG	6	2319	1/1	0.92	0.22	57,57,57,57	0
88	MG	1	4226	1/1	0.92	0.27	41,41,41,41	1
88	MG	6	2120	1/1	0.92	0.30	43,43,43,43	0
88	MG	5	4087	1/1	0.92	0.24	53,53,53,53	0
88	MG	1	4082	1/1	0.92	0.07	57,57,57,57	0
88	MG	1	4454	1/1	0.92	0.13	47,47,47,47	0
87	OHX	1	3551	7/7	0.92	0.21	89,89,89,89	7
87	OHX	5	3733	7/7	0.92	0.22	73,73,73,73	7
88	MG	1	4085	1/1	0.92	0.08	44,44,44,44	0
88	MG	1	4236	1/1	0.92	0.15	46,46,46,46	0
88	MG	5	4097	1/1	0.92	0.06	49,49,49,49	0
88	MG	1	4087	1/1	0.92	0.10	39,39,39,39	0
87	OHX	1	3645	7/7	0.92	0.24	52,52,52,52	7
88	MG	1	4090	1/1	0.92	0.23	48,48,48,48	0
88	MG	1	3956	1/1	0.92	0.27	43,43,43,43	0
88	MG	5	4561	1/1	0.92	0.10	37,37,37,37	0
88	MG	s8	304	1/1	0.92	0.12	56,56,56,56	0
88	MG	1	4251	1/1	0.92	0.21	48,48,48,48	0
88	MG	1	3957	1/1	0.92	0.35	37,37,37,37	0
88	MG	1	4094	1/1	0.92	0.17	46,46,46,46	0
88	MG	7	214	1/1	0.92	0.29	27,27,27,27	0
88	MG	1	4470	1/1	0.92	0.22	55,55,55,55	0
88	MG	7	217	1/1	0.92	0.24	30,30,30,30	0
88	MG	1	3958	1/1	0.92	0.11	46,46,46,46	0
88	MG	1	4096	1/1	0.92	0.19	44,44,44,44	1
88	MG	1	4475	1/1	0.92	0.18	41,41,41,41	1
87	OHX	5	3676	7/7	0.92	0.30	38,38,38,38	7
87	OHX	1	3604	7/7	0.92	0.22	51,51,51,51	7
88	MG	6	2149	1/1	0.92	0.35	65,65,65,65	0
88	MG	5	4142	1/1	0.92	0.07	43,43,43,43	0
88	MG	1	4270	1/1	0.92	0.13	43,43,43,43	1
88	MG	7	238	1/1	0.92	0.14	50,50,50,50	1
88	MG	1	4100	1/1	0.92	0.28	52,52,52,52	0
88	MG	1	3843	1/1	0.92	0.19	49,49,49,49	0
87	OHX	2	1984	7/7	0.92	0.09	177,177,177,177	7
88	MG	1	3965	1/1	0.92	0.28	41,41,41,41	0
88	MG	1	4283	1/1	0.92	0.48	40,40,40,40	1
87	OHX	6	1980	7/7	0.92	0.24	61,61,61,61	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4159	1/1	0.92	0.16	59,59,59,59	0
88	MG	1	4107	1/1	0.92	0.21	40,40,40,40	1
88	MG	5	4161	1/1	0.92	0.05	54,54,54,54	0
88	MG	5	3820	1/1	0.92	0.15	39,39,39,39	0
87	OHX	5	3739	7/7	0.92	0.16	105,105,105,105	7
87	OHX	1	3782	7/7	0.92	0.26	73,73,73,73	7
88	MG	5	4171	1/1	0.92	0.12	86,86,86,86	0
88	MG	5	3828	1/1	0.92	0.26	35,35,35,35	0
88	MG	1	4494	1/1	0.92	0.13	41,41,41,41	0
88	MG	5	3833	1/1	0.92	0.29	33,33,33,33	0
88	MG	l3	407	1/1	0.92	0.31	38,38,38,38	1
88	MG	l3	412	1/1	0.92	0.14	34,34,34,34	0
88	MG	1	4495	1/1	0.92	0.15	60,60,60,60	0
87	OHX	1	3705	7/7	0.92	0.26	59,59,59,59	7
88	MG	1	4114	1/1	0.92	0.22	42,42,42,42	0
87	OHX	5	3624	7/7	0.92	0.23	66,66,66,66	7
88	MG	5	4186	1/1	0.92	0.16	44,44,44,44	1
88	MG	l7	303	1/1	0.92	0.17	34,34,34,34	1
88	MG	1	4503	1/1	0.92	0.32	36,36,36,36	1
88	MG	l7	306	1/1	0.92	0.21	37,37,37,37	1
88	MG	1	3973	1/1	0.92	0.26	41,41,41,41	0
88	MG	6	2173	1/1	0.92	0.20	56,56,56,56	0
87	OHX	c5	201	7/7	0.92	0.11	118,118,118,118	7
87	OHX	5	3800	7/7	0.92	0.20	52,52,52,52	7
88	MG	5	3852	1/1	0.92	0.17	35,35,35,35	0
88	MG	5	4201	1/1	0.92	0.13	60,60,60,60	0
87	OHX	SR	401	7/7	0.92	0.11	130,130,130,130	7
88	MG	5	3859	1/1	0.92	0.23	35,35,35,35	0
88	MG	5	3862	1/1	0.92	0.05	34,34,34,34	0
88	MG	5	4208	1/1	0.92	0.10	41,41,41,41	0
87	OHX	1	3707	7/7	0.92	0.22	67,67,67,67	7
87	OHX	5	3630	7/7	0.92	0.26	42,42,42,42	7
88	MG	1	4305	1/1	0.92	0.51	44,44,44,44	1
88	MG	5	4215	1/1	0.92	0.11	39,39,39,39	0
88	MG	3	216	1/1	0.92	0.30	55,55,55,55	0
88	MG	n8	206	1/1	0.92	0.15	37,37,37,37	1
88	MG	3	218	1/1	0.92	0.29	35,35,35,35	0
87	OHX	6	2032	7/7	0.92	0.22	61,61,61,61	7
87	OHX	1	3557	7/7	0.92	0.17	76,76,76,76	7
88	MG	1	3985	1/1	0.92	0.35	37,37,37,37	0
88	MG	2	2106	1/1	0.92	0.11	60,60,60,60	0
88	MG	5	3887	1/1	0.92	0.23	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	3890	1/1	0.92	0.12	40,40,40,40	1
88	MG	1	4320	1/1	0.92	0.15	54,54,54,54	0
87	OHX	1	3787	7/7	0.92	0.27	68,68,68,68	7
88	MG	6	2193	1/1	0.92	0.12	57,57,57,57	0
87	OHX	1	3674	7/7	0.93	0.25	44,44,44,44	7
88	MG	5	4254	1/1	0.93	0.09	57,57,57,57	0
88	MG	O1	205	1/1	0.93	0.17	65,65,65,65	0
88	MG	5	4258	1/1	0.93	0.12	39,39,39,39	0
88	MG	1	4425	1/1	0.93	0.15	49,49,49,49	1
88	MG	1	4233	1/1	0.93	0.38	54,54,54,54	0
88	MG	1	4234	1/1	0.93	0.11	46,46,46,46	0
87	OHX	5	3635	7/7	0.93	0.10	138,138,138,138	7
88	MG	5	4267	1/1	0.93	0.20	40,40,40,40	1
88	MG	5	3945	1/1	0.93	0.24	28,28,28,28	0
88	MG	5	4275	1/1	0.93	0.31	36,36,36,36	1
88	MG	5	4276	1/1	0.93	0.08	39,39,39,39	0
88	MG	1	3840	1/1	0.93	0.22	39,39,39,39	0
88	MG	1	4098	1/1	0.93	0.31	44,44,44,44	0
87	OHX	1	3675	7/7	0.93	0.30	42,42,42,42	7
88	MG	5	3955	1/1	0.93	0.28	35,35,35,35	0
88	MG	5	3956	1/1	0.93	0.26	37,37,37,37	0
88	MG	5	3958	1/1	0.93	0.25	44,44,44,44	0
87	OHX	1	3548	7/7	0.93	0.26	60,60,60,60	7
88	MG	5	4295	1/1	0.93	0.12	47,47,47,47	0
88	MG	O7	105	1/1	0.93	0.11	51,51,51,51	0
88	MG	O7	106	1/1	0.93	0.12	59,59,59,59	0
87	OHX	5	3639	7/7	0.93	0.30	53,53,53,53	7
87	OHX	1	3594	7/7	0.93	0.19	100,100,100,100	7
87	OHX	6	2009	7/7	0.93	0.27	56,56,56,56	7
87	OHX	2	1950	7/7	0.93	0.18	97,97,97,97	7
88	MG	5	3968	1/1	0.93	0.26	31,31,31,31	0
87	OHX	1	3599	7/7	0.93	0.10	128,128,128,128	7
88	MG	5	3970	1/1	0.93	0.23	36,36,36,36	0
87	OHX	6	2061	7/7	0.93	0.14	102,102,102,102	7
88	MG	1	4266	1/1	0.93	0.11	77,77,77,77	0
87	OHX	1	3637	7/7	0.93	0.19	89,89,89,89	7
88	MG	5	3974	1/1	0.93	0.32	40,40,40,40	0
88	MG	5	3976	1/1	0.93	0.29	58,58,58,58	0
88	MG	2	2221	1/1	0.93	0.11	61,61,61,61	0
88	MG	1	4457	1/1	0.93	0.16	54,54,54,54	1
87	OHX	1	3640	7/7	0.93	0.17	91,91,91,91	7
88	MG	1	4274	1/1	0.93	0.30	46,46,46,46	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3862	1/1	0.93	0.23	49,49,49,49	0
88	MG	5	3984	1/1	0.93	0.14	28,28,28,28	0
88	MG	5	3986	1/1	0.93	0.19	57,57,57,57	0
88	MG	1	4277	1/1	0.93	0.10	40,40,40,40	0
87	OHX	5	3648	7/7	0.93	0.18	65,65,65,65	7
88	MG	6	2284	1/1	0.93	0.27	59,59,59,59	0
88	MG	1	4280	1/1	0.93	0.13	50,50,50,50	0
88	MG	1	3865	1/1	0.93	0.34	62,62,62,62	0
87	OHX	5	3649	7/7	0.93	0.20	64,64,64,64	7
88	MG	1	3984	1/1	0.93	0.09	42,42,42,42	0
87	OHX	2	2031	7/7	0.93	0.17	90,90,90,90	7
88	MG	6	2299	1/1	0.93	0.25	59,59,59,59	0
88	MG	1	4471	1/1	0.93	0.13	62,62,62,62	0
88	MG	5	4348	1/1	0.93	0.10	54,54,54,54	1
88	MG	1	3870	1/1	0.93	0.26	31,31,31,31	0
88	MG	1	3871	1/1	0.93	0.23	35,35,35,35	0
87	OHX	1	3683	7/7	0.93	0.19	61,61,61,61	7
88	MG	1	4476	1/1	0.93	0.14	48,48,48,48	0
87	OHX	2	1999	7/7	0.93	0.17	94,94,94,94	7
88	MG	5	4357	1/1	0.93	0.19	37,37,37,37	1
88	MG	1	4128	1/1	0.93	0.15	51,51,51,51	0
88	MG	1	4294	1/1	0.93	0.14	53,53,53,53	0
88	MG	2	2091	1/1	0.93	0.23	44,44,44,44	0
88	MG	5	4019	1/1	0.93	0.23	32,32,32,32	0
87	OHX	5	3562	7/7	0.93	0.20	96,96,96,96	7
88	MG	5	4369	1/1	0.93	0.27	38,38,38,38	1
88	MG	5	4370	1/1	0.93	0.10	45,45,45,45	1
88	MG	1	4484	1/1	0.93	0.10	55,55,55,55	0
88	MG	1	4133	1/1	0.93	0.10	38,38,38,38	0
88	MG	1	4001	1/1	0.93	0.18	29,29,29,29	0
88	MG	6	2135	1/1	0.93	0.33	50,50,50,50	0
88	MG	5	4027	1/1	0.93	0.52	30,30,30,30	0
88	MG	5	4028	1/1	0.93	0.08	49,49,49,49	0
88	MG	5	4387	1/1	0.93	0.12	52,52,52,52	0
88	MG	5	4029	1/1	0.93	0.17	43,43,43,43	0
87	OHX	2	1986	7/7	0.93	0.21	80,80,80,80	7
88	MG	5	4033	1/1	0.93	0.23	35,35,35,35	0
88	MG	5	4392	1/1	0.93	0.16	52,52,52,52	1
88	MG	5	4393	1/1	0.93	0.37	38,38,38,38	1
88	MG	5	4395	1/1	0.93	0.12	46,46,46,46	1
87	OHX	5	3567	7/7	0.93	0.22	62,62,62,62	7
87	OHX	1	3648	7/7	0.93	0.27	58,58,58,58	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4037	1/1	0.93	0.16	51,51,51,51	0
88	MG	1	3883	1/1	0.93	0.28	31,31,31,31	0
87	OHX	1	3603	7/7	0.93	0.27	55,55,55,55	7
88	MG	5	4041	1/1	0.93	0.14	40,40,40,40	0
88	MG	5	4044	1/1	0.93	0.13	34,34,34,34	0
88	MG	1	4310	1/1	0.93	0.50	40,40,40,40	1
88	MG	1	3889	1/1	0.93	0.29	51,51,51,51	0
88	MG	5	4050	1/1	0.93	0.22	50,50,50,50	0
88	MG	1	4496	1/1	0.93	0.15	49,49,49,49	0
88	MG	2	2237	1/1	0.93	0.15	80,80,80,80	0
87	OHX	1	3447	7/7	0.93	0.22	77,77,77,77	7
88	MG	5	4425	1/1	0.93	0.27	37,37,37,37	1
88	MG	5	4426	1/1	0.93	0.12	45,45,45,45	0
88	MG	1	4501	1/1	0.93	0.09	51,51,51,51	0
87	OHX	5	3575	7/7	0.93	0.17	55,55,55,55	7
88	MG	1	4013	1/1	0.93	0.19	35,35,35,35	0
88	MG	5	4450	1/1	0.93	0.19	47,47,47,47	0
88	MG	5	4059	1/1	0.93	0.10	37,37,37,37	0
87	OHX	2	1971	7/7	0.93	0.25	80,80,80,80	7
88	MG	c8	203	1/1	0.93	0.05	86,86,86,86	0
87	OHX	1	3609	7/7	0.93	0.24	62,62,62,62	7
87	OHX	2	2059	7/7	0.93	0.28	66,66,66,66	7
87	OHX	2	1979	7/7	0.93	0.18	75,75,75,75	7
88	MG	5	4468	1/1	0.93	0.07	42,42,42,42	0
88	MG	1	4331	1/1	0.93	0.31	45,45,45,45	1
88	MG	1	4333	1/1	0.93	0.18	42,42,42,42	0
88	MG	5	4471	1/1	0.93	0.07	39,39,39,39	0
87	OHX	5	3586	7/7	0.93	0.17	83,83,83,83	7
88	MG	1	4151	1/1	0.93	0.11	54,54,54,54	0
88	MG	5	4080	1/1	0.93	0.17	41,41,41,41	0
87	OHX	6	1945	7/7	0.93	0.24	58,58,58,58	7
87	OHX	5	3592	7/7	0.93	0.25	43,43,43,43	7
88	MG	5	4083	1/1	0.93	0.14	36,36,36,36	0
88	MG	5	4485	1/1	0.93	0.08	57,57,57,57	0
87	OHX	1	3526	7/7	0.93	0.17	67,67,67,67	7
87	OHX	2	1935	7/7	0.93	0.13	98,98,98,98	7
87	OHX	1	3806	7/7	0.93	0.18	62,62,62,62	7
88	MG	5	4499	1/1	0.93	0.15	46,46,46,46	0
87	OHX	5	3675	7/7	0.93	0.29	47,47,47,47	7
88	MG	5	3818	1/1	0.93	0.10	48,48,48,48	0
88	MG	5	4506	1/1	0.93	0.17	33,33,33,33	0
88	MG	5	4092	1/1	0.93	0.12	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3535	7/7	0.93	0.12	147,147,147,147	7
87	OHX	6	1979	7/7	0.93	0.16	79,79,79,79	7
88	MG	2	2113	1/1	0.93	0.35	68,68,68,68	0
88	MG	5	3824	1/1	0.93	0.24	54,54,54,54	0
87	OHX	1	3617	7/7	0.93	0.19	73,73,73,73	7
88	MG	5	4098	1/1	0.93	0.21	44,44,44,44	0
88	MG	5	3827	1/1	0.93	0.27	43,43,43,43	0
88	MG	5	4102	1/1	0.93	0.17	35,35,35,35	0
88	MG	1	4351	1/1	0.93	0.25	67,67,67,67	0
88	MG	5	3829	1/1	0.93	0.29	59,59,59,59	0
88	MG	5	4111	1/1	0.93	0.12	35,35,35,35	0
88	MG	1	4175	1/1	0.93	0.18	53,53,53,53	1
88	MG	5	3831	1/1	0.93	0.19	37,37,37,37	0
88	MG	1	4353	1/1	0.93	0.07	49,49,49,49	0
87	OHX	5	3605	7/7	0.93	0.18	96,96,96,96	7
88	MG	5	4126	1/1	0.93	0.11	35,35,35,35	1
87	OHX	1	3575	7/7	0.93	0.29	53,53,53,53	7
88	MG	5	4129	1/1	0.93	0.12	57,57,57,57	0
88	MG	5	4558	1/1	0.93	0.12	68,68,68,68	0
87	OHX	6	2083	7/7	0.93	0.20	82,82,82,82	7
88	MG	S6	301	1/1	0.93	0.08	103,103,103,103	0
88	MG	1	3922	1/1	0.93	0.25	34,34,34,34	0
87	OHX	2	2004	7/7	0.93	0.15	89,89,89,89	7
88	MG	6	2190	1/1	0.93	0.09	44,44,44,44	0
88	MG	5	4137	1/1	0.93	0.15	54,54,54,54	0
88	MG	5	4573	1/1	0.93	0.19	44,44,44,44	0
87	OHX	1	3622	7/7	0.93	0.18	84,84,84,84	7
88	MG	5	3848	1/1	0.93	0.25	40,40,40,40	0
88	MG	C8	203	1/1	0.93	0.12	96,96,96,96	0
88	MG	D0	201	1/1	0.93	0.32	71,71,71,71	0
88	MG	5	3853	1/1	0.93	0.10	47,47,47,47	0
88	MG	1	3932	1/1	0.93	0.36	31,31,31,31	0
88	MG	6	2195	1/1	0.93	0.25	46,46,46,46	0
88	MG	7	225	1/1	0.93	0.20	64,64,64,64	0
87	OHX	3	202	7/7	0.93	0.28	48,48,48,48	7
88	MG	5	4153	1/1	0.93	0.29	51,51,51,51	0
88	MG	7	231	1/1	0.93	0.10	50,50,50,50	0
88	MG	5	4154	1/1	0.93	0.06	45,45,45,45	0
88	MG	4	234	1/1	0.93	0.13	90,90,90,90	1
87	OHX	6	1988	7/7	0.93	0.25	57,57,57,57	7
87	OHX	3	206	7/7	0.93	0.21	81,81,81,81	7
87	OHX	6	2091	7/7	0.93	0.13	96,96,96,96	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4375	1/1	0.93	0.12	33,33,33,33	0
88	MG	5	3873	1/1	0.93	0.25	38,38,38,38	0
88	MG	8	225	1/1	0.93	0.19	55,55,55,55	0
88	MG	8	226	1/1	0.93	0.11	63,63,63,63	0
88	MG	5	4165	1/1	0.93	0.08	43,43,43,43	0
87	OHX	1	3580	7/7	0.93	0.14	106,106,106,106	7
88	MG	5	3875	1/1	0.93	0.21	33,33,33,33	0
88	MG	1	4382	1/1	0.93	0.12	53,53,53,53	0
88	MG	4	243	1/1	0.93	0.73	41,41,41,41	1
88	MG	1	4384	1/1	0.93	0.26	35,35,35,35	1
88	MG	L2	303	1/1	0.93	0.07	53,53,53,53	0
88	MG	8	238	1/1	0.93	0.15	45,45,45,45	0
88	MG	5	4177	1/1	0.93	0.13	55,55,55,55	0
88	MG	5	3889	1/1	0.93	0.16	47,47,47,47	0
88	MG	5	4179	1/1	0.93	0.12	54,54,54,54	0
88	MG	L3	404	1/1	0.93	0.17	42,42,42,42	1
88	MG	1	4069	1/1	0.93	0.11	37,37,37,37	0
88	MG	1	4389	1/1	0.93	0.17	49,49,49,49	0
88	MG	l3	405	1/1	0.93	0.09	35,35,35,35	0
87	OHX	8	210	7/7	0.93	0.29	49,49,49,49	7
88	MG	l3	409	1/1	0.93	0.08	41,41,41,41	1
88	MG	5	3895	1/1	0.93	0.21	32,32,32,32	0
88	MG	1	4071	1/1	0.93	0.15	43,43,43,43	0
87	OHX	2	1993	7/7	0.93	0.19	80,80,80,80	7
88	MG	5	3899	1/1	0.93	0.13	61,61,61,61	0
87	OHX	8	214	7/7	0.93	0.18	100,100,100,100	7
88	MG	M1	202	1/1	0.93	0.21	72,72,72,72	0
88	MG	5	3902	1/1	0.93	0.20	48,48,48,48	0
88	MG	5	4202	1/1	0.93	0.10	40,40,40,40	0
88	MG	1	4211	1/1	0.93	0.32	37,37,37,37	0
88	MG	l7	307	1/1	0.93	0.11	38,38,38,38	1
87	OHX	6	1994	7/7	0.93	0.16	76,76,76,76	7
88	MG	1	4399	1/1	0.93	0.21	65,65,65,65	0
88	MG	m3	201	1/1	0.93	0.52	55,55,55,55	1
87	OHX	6	1996	7/7	0.93	0.15	90,90,90,90	7
88	MG	5	3910	1/1	0.93	0.33	33,33,33,33	0
88	MG	5	3911	1/1	0.93	0.11	39,39,39,39	0
88	MG	1	3821	1/1	0.93	0.23	38,38,38,38	0
87	OHX	2	1947	7/7	0.93	0.10	130,130,130,130	7
88	MG	5	4218	1/1	0.93	0.10	49,49,49,49	0
87	OHX	1	3591	7/7	0.93	0.17	95,95,95,95	7
88	MG	n0	205	1/1	0.93	0.18	41,41,41,41	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3746	7/7	0.93	0.27	46,46,46,46	7
88	MG	N1	201	1/1	0.93	0.22	42,42,42,42	1
87	OHX	4	208	7/7	0.93	0.15	85,85,85,85	7
88	MG	5	3923	1/1	0.93	0.19	38,38,38,38	0
88	MG	1	3954	1/1	0.93	0.33	32,32,32,32	0
88	MG	5	3926	1/1	0.93	0.17	34,34,34,34	0
88	MG	5	4229	1/1	0.93	0.28	58,58,58,58	1
88	MG	n9	102	1/1	0.93	0.10	37,37,37,37	0
87	OHX	4	210	7/7	0.93	0.16	101,101,101,101	7
87	OHX	c1	201	7/7	0.93	0.21	79,79,79,79	7
88	MG	2	2206	1/1	0.93	0.10	58,58,58,58	0
88	MG	o3	204	1/1	0.93	0.18	37,37,37,37	1
87	OHX	1	3631	7/7	0.93	0.29	45,45,45,45	7
88	MG	5	4240	1/1	0.93	0.21	58,58,58,58	0
88	MG	5	4241	1/1	0.93	0.07	65,65,65,65	0
88	MG	N8	207	1/1	0.93	0.41	39,39,39,39	1
88	MG	N9	102	1/1	0.93	0.12	38,38,38,38	0
88	MG	5	3935	1/1	0.93	0.25	39,39,39,39	0
88	MG	1	3959	1/1	0.93	0.26	31,31,31,31	0
88	MG	5	3980	1/1	0.94	0.15	50,50,50,50	0
88	MG	1	4264	1/1	0.94	0.18	32,32,32,32	0
88	MG	6	2101	1/1	0.94	0.31	39,39,39,39	0
87	OHX	1	3528	7/7	0.94	0.25	59,59,59,59	7
88	MG	6	2292	1/1	0.94	0.68	50,50,50,50	1
88	MG	6	2103	1/1	0.94	0.16	66,66,66,66	0
87	OHX	4	209	7/7	0.94	0.25	45,45,45,45	7
87	OHX	1	3562	7/7	0.94	0.15	92,92,92,92	7
88	MG	1	4112	1/1	0.94	0.21	36,36,36,36	0
88	MG	1	4273	1/1	0.94	0.11	37,37,37,37	0
88	MG	5	3993	1/1	0.94	0.20	31,31,31,31	0
88	MG	5	4312	1/1	0.94	0.10	74,74,74,74	0
87	OHX	4	211	7/7	0.94	0.13	99,99,99,99	7
88	MG	5	4314	1/1	0.94	0.25	64,64,64,64	0
88	MG	5	3996	1/1	0.94	0.23	34,34,34,34	0
88	MG	5	3997	1/1	0.94	0.23	36,36,36,36	0
88	MG	1	4115	1/1	0.94	0.20	52,52,52,52	0
87	OHX	2	1949	7/7	0.94	0.12	108,108,108,108	7
88	MG	1	4466	1/1	0.94	0.35	35,35,35,35	1
87	OHX	5	3587	7/7	0.94	0.21	52,52,52,52	7
88	MG	1	3873	1/1	0.94	0.24	39,39,39,39	0
88	MG	1	3986	1/1	0.94	0.19	31,31,31,31	0
88	MG	6	2315	1/1	0.94	0.09	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	6	2316	1/1	0.94	0.18	60,60,60,60	1
88	MG	5	4010	1/1	0.94	0.18	30,30,30,30	0
87	OHX	5	3589	7/7	0.94	0.28	44,44,44,44	7
87	OHX	6	1992	7/7	0.94	0.16	71,71,71,71	7
87	OHX	5	3790	7/7	0.94	0.20	57,57,57,57	7
88	MG	5	4335	1/1	0.94	0.22	43,43,43,43	0
88	MG	5	4017	1/1	0.94	0.38	36,36,36,36	0
88	MG	1	3993	1/1	0.94	0.35	43,43,43,43	0
87	OHX	5	3728	7/7	0.94	0.20	49,49,49,49	7
88	MG	6	2324	1/1	0.94	0.21	47,47,47,47	1
87	OHX	5	3729	7/7	0.94	0.19	57,57,57,57	7
88	MG	6	2122	1/1	0.94	0.15	49,49,49,49	0
88	MG	1	3998	1/1	0.94	0.34	36,36,36,36	0
87	OHX	5	3730	7/7	0.94	0.21	70,70,70,70	7
87	OHX	2	1955	7/7	0.94	0.17	91,91,91,91	7
87	OHX	2	1983	7/7	0.94	0.16	70,70,70,70	7
87	OHX	1	3793	7/7	0.94	0.15	85,85,85,85	7
88	MG	1	4483	1/1	0.94	0.18	62,62,62,62	0
88	MG	5	4031	1/1	0.94	0.10	46,46,46,46	0
87	OHX	2	2033	7/7	0.94	0.10	113,113,113,113	7
87	OHX	5	3798	7/7	0.94	0.22	55,55,55,55	7
87	OHX	1	3542	7/7	0.94	0.20	52,52,52,52	7
88	MG	5	4359	1/1	0.94	0.08	42,42,42,42	0
88	MG	6	2134	1/1	0.94	0.22	42,42,42,42	0
88	MG	1	4303	1/1	0.94	0.11	58,58,58,58	1
87	OHX	1	3638	7/7	0.94	0.21	52,52,52,52	7
87	OHX	1	3639	7/7	0.94	0.21	52,52,52,52	7
87	OHX	2	1974	7/7	0.94	0.09	137,137,137,137	7
88	MG	5	4367	1/1	0.94	0.12	38,38,38,38	1
88	MG	5	4045	1/1	0.94	0.13	48,48,48,48	0
88	MG	1	4492	1/1	0.94	0.10	56,56,56,56	1
87	OHX	6	2002	7/7	0.94	0.21	52,52,52,52	7
87	OHX	5	3607	7/7	0.94	0.24	52,52,52,52	7
88	MG	1	4017	1/1	0.94	0.31	37,37,37,37	0
88	MG	1	4317	1/1	0.94	0.62	44,44,44,44	1
88	MG	2	2258	1/1	0.94	0.14	74,74,74,74	1
88	MG	5	4383	1/1	0.94	0.12	45,45,45,45	0
88	MG	6	2148	1/1	0.94	0.39	45,45,45,45	0
88	MG	1	4498	1/1	0.94	0.10	46,46,46,46	0
88	MG	d9	103	1/1	0.94	0.15	83,83,83,83	1
88	MG	1	4319	1/1	0.94	0.34	42,42,42,42	1
87	OHX	1	3579	7/7	0.94	0.24	54,54,54,54	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4061	1/1	0.94	0.12	39,39,39,39	0
87	OHX	5	3609	7/7	0.94	0.20	70,70,70,70	7
88	MG	5	3816	1/1	0.94	0.17	32,32,32,32	0
87	OHX	6	2004	7/7	0.94	0.25	54,54,54,54	7
88	MG	5	4398	1/1	0.94	0.17	42,42,42,42	1
88	MG	1	4024	1/1	0.94	0.16	48,48,48,48	0
88	MG	1	4026	1/1	0.94	0.20	46,46,46,46	0
88	MG	5	4071	1/1	0.94	0.24	36,36,36,36	0
88	MG	5	4408	1/1	0.94	0.22	39,39,39,39	0
88	MG	1	4506	1/1	0.94	0.07	50,50,50,50	0
88	MG	5	4073	1/1	0.94	0.06	34,34,34,34	0
87	OHX	1	3547	7/7	0.94	0.18	65,65,65,65	7
88	MG	5	3823	1/1	0.94	0.32	46,46,46,46	0
88	MG	5	4076	1/1	0.94	0.13	37,37,37,37	0
88	MG	5	4416	1/1	0.94	0.18	40,40,40,40	1
88	MG	5	4078	1/1	0.94	0.17	62,62,62,62	0
88	MG	5	4079	1/1	0.94	0.20	36,36,36,36	1
87	OHX	1	3739	7/7	0.94	0.17	76,76,76,76	7
88	MG	5	4422	1/1	0.94	0.08	62,62,62,62	0
88	MG	5	4423	1/1	0.94	0.23	39,39,39,39	1
87	OHX	2	1996	7/7	0.94	0.15	93,93,93,93	7
87	OHX	2	1985	7/7	0.94	0.19	59,59,59,59	7
88	MG	1	4159	1/1	0.94	0.28	52,52,52,52	0
88	MG	1	4033	1/1	0.94	0.31	45,45,45,45	0
87	OHX	1	3711	7/7	0.94	0.20	77,77,77,77	7
88	MG	1	4339	1/1	0.94	0.17	62,62,62,62	0
88	MG	5	4441	1/1	0.94	0.19	32,32,32,32	1
88	MG	5	4445	1/1	0.94	0.18	48,48,48,48	0
88	MG	1	4035	1/1	0.94	0.14	32,32,32,32	0
88	MG	D4	201	1/1	0.94	0.21	83,83,83,83	0
88	MG	5	3836	1/1	0.94	0.27	60,60,60,60	0
87	OHX	7	208	7/7	0.94	0.25	54,54,54,54	7
88	MG	5	4455	1/1	0.94	0.12	36,36,36,36	1
88	MG	5	4458	1/1	0.94	0.10	54,54,54,54	0
87	OHX	1	3616	7/7	0.94	0.25	60,60,60,60	7
88	MG	D9	104	1/1	0.94	0.11	85,85,85,85	0
88	MG	D9	105	1/1	0.94	0.08	76,76,76,76	0
87	OHX	6	2011	7/7	0.94	0.25	57,57,57,57	7
87	OHX	2	1976	7/7	0.94	0.21	92,92,92,92	7
88	MG	5	4099	1/1	0.94	0.29	35,35,35,35	0
88	MG	1	3924	1/1	0.94	0.22	43,43,43,43	0
88	MG	1	4179	1/1	0.94	0.25	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	3849	1/1	0.94	0.28	43,43,43,43	0
88	MG	1	3925	1/1	0.94	0.33	40,40,40,40	0
88	MG	5	4107	1/1	0.94	0.17	36,36,36,36	0
88	MG	5	4108	1/1	0.94	0.11	28,28,28,28	0
88	MG	5	4110	1/1	0.94	0.28	43,43,43,43	0
88	MG	6	2182	1/1	0.94	0.12	51,51,51,51	0
88	MG	5	4114	1/1	0.94	0.12	32,32,32,32	1
88	MG	1	4182	1/1	0.94	0.10	43,43,43,43	0
88	MG	2	2195	1/1	0.94	0.34	65,65,65,65	0
87	OHX	6	2058	7/7	0.94	0.10	148,148,148,148	7
88	MG	5	3861	1/1	0.94	0.24	44,44,44,44	0
88	MG	4	221	1/1	0.94	0.36	46,46,46,46	0
87	OHX	1	3653	7/7	0.94	0.24	40,40,40,40	7
88	MG	5	4508	1/1	0.94	0.08	53,53,53,53	1
88	MG	4	224	1/1	0.94	0.39	55,55,55,55	0
87	OHX	1	3747	7/7	0.94	0.09	146,146,146,146	7
88	MG	1	4358	1/1	0.94	0.20	42,42,42,42	0
88	MG	5	4515	1/1	0.94	0.11	42,42,42,42	1
88	MG	5	3870	1/1	0.94	0.17	43,43,43,43	0
88	MG	5	4522	1/1	0.94	0.18	51,51,51,51	1
87	OHX	5	3628	7/7	0.94	0.18	63,63,63,63	7
87	OHX	8	211	7/7	0.94	0.15	105,105,105,105	7
88	MG	4	230	1/1	0.94	0.19	56,56,56,56	0
88	MG	1	4061	1/1	0.94	0.17	50,50,50,50	0
88	MG	5	3876	1/1	0.94	0.25	34,34,34,34	0
88	MG	5	3879	1/1	0.94	0.27	41,41,41,41	0
88	MG	5	4145	1/1	0.94	0.15	50,50,50,50	0
88	MG	5	4146	1/1	0.94	0.13	41,41,41,41	1
88	MG	5	4540	1/1	0.94	0.19	37,37,37,37	0
88	MG	5	4541	1/1	0.94	0.34	34,34,34,34	1
88	MG	5	3880	1/1	0.94	0.17	40,40,40,40	0
88	MG	5	3881	1/1	0.94	0.29	58,58,58,58	0
87	OHX	5	3507	7/7	0.94	0.20	61,61,61,61	7
88	MG	1	4364	1/1	0.94	0.09	38,38,38,38	0
87	OHX	1	3655	7/7	0.94	0.28	48,48,48,48	7
88	MG	1	3824	1/1	0.94	0.17	40,40,40,40	0
87	OHX	5	3522	7/7	0.94	0.26	46,46,46,46	7
88	MG	1	3940	1/1	0.94	0.21	35,35,35,35	0
87	OHX	5	3527	7/7	0.94	0.19	57,57,57,57	7
87	OHX	6	1944	7/7	0.94	0.16	60,60,60,60	7
88	MG	5	3893	1/1	0.94	0.24	52,52,52,52	0
88	MG	5	4562	1/1	0.94	0.11	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3829	1/1	0.94	0.22	84,84,84,84	0
87	OHX	5	3761	7/7	0.94	0.19	42,42,42,42	7
88	MG	1	4378	1/1	0.94	0.14	70,70,70,70	0
88	MG	5	3897	1/1	0.94	0.11	67,67,67,67	0
88	MG	5	4168	1/1	0.94	0.21	40,40,40,40	0
88	MG	6	2209	1/1	0.94	0.09	46,46,46,46	0
88	MG	1	4380	1/1	0.94	0.10	64,64,64,64	0
88	MG	7	216	1/1	0.94	0.38	43,43,43,43	0
88	MG	6	2211	1/1	0.94	0.06	50,50,50,50	0
87	OHX	1	3618	7/7	0.94	0.20	56,56,56,56	7
88	MG	7	220	1/1	0.94	0.08	41,41,41,41	0
87	OHX	5	3537	7/7	0.94	0.26	55,55,55,55	7
88	MG	7	223	1/1	0.94	0.07	55,55,55,55	0
88	MG	1	4213	1/1	0.94	0.26	39,39,39,39	1
88	MG	L4	408	1/1	0.94	0.22	34,34,34,34	1
88	MG	L7	302	1/1	0.94	0.09	44,44,44,44	0
87	OHX	6	1959	7/7	0.94	0.24	57,57,57,57	7
88	MG	1	4216	1/1	0.94	0.18	39,39,39,39	0
88	MG	1	4217	1/1	0.94	0.21	43,43,43,43	0
88	MG	5	4184	1/1	0.94	0.13	45,45,45,45	0
88	MG	M0	307	1/1	0.94	0.18	45,45,45,45	0
88	MG	1	3950	1/1	0.94	0.22	47,47,47,47	0
88	MG	5	3915	1/1	0.94	0.14	44,44,44,44	0
87	OHX	1	3519	7/7	0.94	0.18	95,95,95,95	7
88	MG	6	2227	1/1	0.94	0.11	52,52,52,52	0
88	MG	5	4195	1/1	0.94	0.14	41,41,41,41	0
88	MG	1	3837	1/1	0.94	0.14	55,55,55,55	0
88	MG	8	227	1/1	0.94	0.18	61,61,61,61	0
87	OHX	5	3704	7/7	0.94	0.26	43,43,43,43	7
87	OHX	6	2021	7/7	0.94	0.19	53,53,53,53	7
88	MG	M6	201	1/1	0.94	0.26	40,40,40,40	1
87	OHX	5	3550	7/7	0.94	0.18	57,57,57,57	7
88	MG	5	4204	1/1	0.94	0.30	32,32,32,32	0
88	MG	8	234	1/1	0.94	0.18	41,41,41,41	1
88	MG	1	3842	1/1	0.94	0.14	35,35,35,35	0
87	OHX	5	3553	7/7	0.94	0.19	49,49,49,49	7
88	MG	1	4403	1/1	0.94	0.42	47,47,47,47	1
88	MG	6	2237	1/1	0.94	0.17	55,55,55,55	0
87	OHX	6	1963	7/7	0.94	0.18	72,72,72,72	7
88	MG	6	2239	1/1	0.94	0.15	56,56,56,56	1
88	MG	l2	304	1/1	0.94	0.27	44,44,44,44	1
88	MG	N0	202	1/1	0.94	0.20	51,51,51,51	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4216	1/1	0.94	0.18	49,49,49,49	1
88	MG	1	4408	1/1	0.94	0.24	32,32,32,32	1
87	OHX	1	3525	7/7	0.94	0.24	66,66,66,66	7
88	MG	5	3938	1/1	0.94	0.20	40,40,40,40	0
88	MG	1	3846	1/1	0.94	0.16	37,37,37,37	0
88	MG	1	4413	1/1	0.94	0.17	44,44,44,44	1
88	MG	1	4231	1/1	0.94	0.13	49,49,49,49	1
87	OHX	3	207	7/7	0.94	0.14	85,85,85,85	7
88	MG	1	3848	1/1	0.94	0.31	30,30,30,30	0
88	MG	5	4227	1/1	0.94	0.17	35,35,35,35	1
88	MG	N8	204	1/1	0.94	0.10	48,48,48,48	0
88	MG	5	3946	1/1	0.94	0.40	36,36,36,36	0
88	MG	N8	206	1/1	0.94	0.24	39,39,39,39	0
88	MG	5	3950	1/1	0.94	0.25	40,40,40,40	0
87	OHX	6	1969	7/7	0.94	0.18	68,68,68,68	7
88	MG	6	2257	1/1	0.94	0.14	72,72,72,72	0
88	MG	l9	204	1/1	0.94	0.17	41,41,41,41	1
88	MG	1	4235	1/1	0.94	0.08	45,45,45,45	0
88	MG	5	4242	1/1	0.94	0.16	45,45,45,45	0
88	MG	1	3851	1/1	0.94	0.17	32,32,32,32	0
88	MG	m5	505	1/1	0.94	0.12	58,58,58,58	0
88	MG	m6	202	1/1	0.94	0.18	36,36,36,36	1
88	MG	5	4244	1/1	0.94	0.23	39,39,39,39	1
88	MG	m7	202	1/1	0.94	0.33	36,36,36,36	0
88	MG	1	3967	1/1	0.94	0.15	43,43,43,43	0
88	MG	1	4239	1/1	0.94	0.19	45,45,45,45	0
88	MG	5	4249	1/1	0.94	0.06	44,44,44,44	0
88	MG	5	4250	1/1	0.94	0.06	38,38,38,38	1
87	OHX	6	2026	7/7	0.94	0.10	151,151,151,151	7
88	MG	1	4244	1/1	0.94	0.26	55,55,55,55	0
87	OHX	5	3713	7/7	0.94	0.24	56,56,56,56	7
88	MG	O3	202	1/1	0.94	0.25	38,38,38,38	1
88	MG	n3	204	1/1	0.94	0.17	42,42,42,42	0
88	MG	1	4246	1/1	0.94	0.09	53,53,53,53	1
88	MG	1	4247	1/1	0.94	0.57	45,45,45,45	1
88	MG	5	4260	1/1	0.94	0.24	63,63,63,63	0
87	OHX	1	3595	7/7	0.94	0.21	42,42,42,42	7
88	MG	1	4102	1/1	0.94	0.11	45,45,45,45	0
87	OHX	1	3597	7/7	0.94	0.26	49,49,49,49	7
88	MG	o2	201	1/1	0.94	0.14	35,35,35,35	1
87	OHX	1	3624	7/7	0.94	0.15	74,74,74,74	7
88	MG	5	4268	1/1	0.94	0.20	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4443	1/1	0.94	0.15	44,44,44,44	0
88	MG	o3	203	1/1	0.94	0.10	40,40,40,40	1
88	MG	5	4271	1/1	0.94	0.48	36,36,36,36	1
88	MG	5	4273	1/1	0.94	0.14	35,35,35,35	1
87	OHX	2	1963	7/7	0.94	0.19	83,83,83,83	7
88	MG	1	4256	1/1	0.94	0.08	40,40,40,40	0
88	MG	1	4106	1/1	0.94	0.29	51,51,51,51	0
88	MG	1	4259	1/1	0.94	0.06	45,45,45,45	1
87	OHX	1	3527	7/7	0.94	0.23	49,49,49,49	7
88	MG	6	2285	1/1	0.94	0.21	68,68,68,68	1
88	MG	6	2246	1/1	0.95	0.11	50,50,50,50	1
87	OHX	2	1932	7/7	0.95	0.12	92,92,92,92	7
88	MG	5	4277	1/1	0.95	0.44	44,44,44,44	1
87	OHX	1	3583	7/7	0.95	0.18	77,77,77,77	7
88	MG	5	4283	1/1	0.95	0.16	39,39,39,39	1
88	MG	L7	303	1/1	0.95	0.11	42,42,42,42	0
88	MG	1	4349	1/1	0.95	0.10	59,59,59,59	0
87	OHX	1	3585	7/7	0.95	0.18	50,50,50,50	7
87	OHX	5	3539	7/7	0.95	0.21	60,60,60,60	7
88	MG	5	4290	1/1	0.95	0.09	39,39,39,39	0
87	OHX	5	3540	7/7	0.95	0.16	99,99,99,99	7
87	OHX	5	3673	7/7	0.95	0.18	48,48,48,48	7
87	OHX	1	3654	7/7	0.95	0.20	49,49,49,49	7
88	MG	5	4296	1/1	0.95	0.09	32,32,32,32	0
88	MG	5	3975	1/1	0.95	0.26	48,48,48,48	0
88	MG	2	2141	1/1	0.95	0.23	67,67,67,67	0
87	OHX	1	3512	7/7	0.95	0.17	65,65,65,65	7
87	OHX	5	3547	7/7	0.95	0.16	66,66,66,66	7
87	OHX	5	3548	7/7	0.95	0.18	47,47,47,47	7
87	OHX	5	3549	7/7	0.95	0.14	84,84,84,84	7
87	OHX	1	3513	7/7	0.95	0.23	61,61,61,61	7
88	MG	1	4154	1/1	0.95	0.37	42,42,42,42	1
88	MG	M7	205	1/1	0.95	0.20	42,42,42,42	0
88	MG	M7	209	1/1	0.95	0.09	42,42,42,42	0
87	OHX	5	3552	7/7	0.95	0.14	107,107,107,107	7
88	MG	5	4316	1/1	0.95	0.23	35,35,35,35	1
88	MG	1	4156	1/1	0.95	0.12	46,46,46,46	0
88	MG	M9	205	1/1	0.95	0.19	68,68,68,68	1
88	MG	6	2276	1/1	0.95	0.25	40,40,40,40	0
87	OHX	2	1969	7/7	0.95	0.16	62,62,62,62	7
88	MG	1	4158	1/1	0.95	0.07	42,42,42,42	0
87	OHX	5	3555	7/7	0.95	0.22	53,53,53,53	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4160	1/1	0.95	0.22	62,62,62,62	0
88	MG	6	2282	1/1	0.95	0.24	55,55,55,55	0
88	MG	1	4162	1/1	0.95	0.14	36,36,36,36	0
88	MG	1	3983	1/1	0.95	0.17	40,40,40,40	0
88	MG	5	4329	1/1	0.95	0.10	43,43,43,43	0
88	MG	1	4166	1/1	0.95	0.18	45,45,45,45	0
88	MG	6	2286	1/1	0.95	0.17	65,65,65,65	0
87	OHX	5	3683	7/7	0.95	0.24	46,46,46,46	7
88	MG	5	4005	1/1	0.95	0.21	38,38,38,38	0
87	OHX	2	1933	7/7	0.95	0.22	71,71,71,71	7
88	MG	5	4007	1/1	0.95	0.20	33,33,33,33	0
88	MG	N8	205	1/1	0.95	0.18	31,31,31,31	1
88	MG	6	2291	1/1	0.95	0.07	65,65,65,65	0
88	MG	1	3822	1/1	0.95	0.18	43,43,43,43	0
88	MG	6	2293	1/1	0.95	0.20	46,46,46,46	1
88	MG	1	4170	1/1	0.95	0.35	35,35,35,35	0
88	MG	5	4015	1/1	0.95	0.51	30,30,30,30	0
88	MG	N8	208	1/1	0.95	0.16	45,45,45,45	1
88	MG	6	2297	1/1	0.95	0.19	70,70,70,70	1
88	MG	6	2298	1/1	0.95	0.12	86,86,86,86	0
87	OHX	5	3558	7/7	0.95	0.20	51,51,51,51	7
87	OHX	5	3559	7/7	0.95	0.15	93,93,93,93	7
88	MG	1	3825	1/1	0.95	0.12	58,58,58,58	0
87	OHX	5	3803	7/7	0.95	0.10	147,147,147,147	7
88	MG	1	3994	1/1	0.95	0.24	27,27,27,27	0
88	MG	5	4025	1/1	0.95	0.24	26,26,26,26	0
87	OHX	6	1950	7/7	0.95	0.11	100,100,100,100	7
87	OHX	6	1953	7/7	0.95	0.09	137,137,137,137	7
87	OHX	6	1954	7/7	0.95	0.10	149,149,149,149	7
88	MG	6	2309	1/1	0.95	0.24	65,65,65,65	0
88	MG	6	2311	1/1	0.95	0.07	60,60,60,60	1
87	OHX	5	3564	7/7	0.95	0.25	53,53,53,53	7
87	OHX	1	3521	7/7	0.95	0.27	44,44,44,44	7
87	OHX	1	3596	7/7	0.95	0.18	68,68,68,68	7
88	MG	5	4371	1/1	0.95	0.17	61,61,61,61	0
87	OHX	6	1962	7/7	0.95	0.21	62,62,62,62	7
88	MG	5	4375	1/1	0.95	0.12	37,37,37,37	1
88	MG	5	4376	1/1	0.95	0.09	45,45,45,45	0
87	OHX	5	3570	7/7	0.95	0.19	53,53,53,53	7
88	MG	1	3836	1/1	0.95	0.20	43,43,43,43	0
87	OHX	2	1972	7/7	0.95	0.20	81,81,81,81	7
88	MG	1	4405	1/1	0.95	0.15	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4043	1/1	0.95	0.10	40,40,40,40	1
88	MG	6	2322	1/1	0.95	0.13	62,62,62,62	0
87	OHX	5	3572	7/7	0.95	0.18	56,56,56,56	7
87	OHX	2	2073	7/7	0.95	0.18	89,89,89,89	7
88	MG	5	4389	1/1	0.95	0.15	34,34,34,34	0
88	MG	5	4048	1/1	0.95	0.20	39,39,39,39	0
87	OHX	1	3663	7/7	0.95	0.18	49,49,49,49	7
88	MG	Q2	505	1/1	0.95	0.09	45,45,45,45	1
88	MG	6	2329	1/1	0.95	0.08	48,48,48,48	0
88	MG	6	2330	1/1	0.95	0.27	55,55,55,55	1
88	MG	5	4053	1/1	0.95	0.07	45,45,45,45	0
88	MG	5	4397	1/1	0.95	0.24	48,48,48,48	0
88	MG	1	4412	1/1	0.95	0.21	60,60,60,60	0
87	OHX	7	205	7/7	0.95	0.21	68,68,68,68	7
88	MG	1	4414	1/1	0.95	0.16	60,60,60,60	1
88	MG	1	4415	1/1	0.95	0.13	34,34,34,34	1
88	MG	5	4407	1/1	0.95	0.09	55,55,55,55	0
87	OHX	2	1973	7/7	0.95	0.15	103,103,103,103	7
88	MG	1	4016	1/1	0.95	0.33	32,32,32,32	0
87	OHX	5	3578	7/7	0.95	0.19	67,67,67,67	7
88	MG	5	4062	1/1	0.95	0.12	53,53,53,53	0
88	MG	1	4018	1/1	0.95	0.35	22,22,22,22	0
88	MG	5	4413	1/1	0.95	0.13	56,56,56,56	0
87	OHX	2	2023	7/7	0.95	0.15	71,71,71,71	7
88	MG	5	4065	1/1	0.95	0.12	50,50,50,50	0
87	OHX	6	1976	7/7	0.95	0.11	95,95,95,95	7
87	OHX	1	3790	7/7	0.95	0.18	68,68,68,68	7
88	MG	5	4069	1/1	0.95	0.08	36,36,36,36	0
88	MG	c7	201	1/1	0.95	0.14	81,81,81,81	1
87	OHX	8	204	7/7	0.95	0.17	66,66,66,66	7
87	OHX	1	3529	7/7	0.95	0.09	129,129,129,129	7
87	OHX	1	3530	7/7	0.95	0.19	65,65,65,65	7
88	MG	1	4027	1/1	0.95	0.31	44,44,44,44	0
87	OHX	8	209	7/7	0.95	0.18	88,88,88,88	7
87	OHX	5	3588	7/7	0.95	0.18	63,63,63,63	7
88	MG	5	4439	1/1	0.95	0.12	32,32,32,32	0
88	MG	5	4077	1/1	0.95	0.15	48,48,48,48	0
87	OHX	1	3730	7/7	0.95	0.20	52,52,52,52	7
88	MG	5	4442	1/1	0.95	0.14	45,45,45,45	0
88	MG	1	3857	1/1	0.95	0.19	40,40,40,40	0
87	OHX	6	1983	7/7	0.95	0.16	95,95,95,95	7
88	MG	1	4221	1/1	0.95	0.20	37,37,37,37	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	d4	202	1/1	0.95	0.12	55,55,55,55	0
87	OHX	2	1931	7/7	0.95	0.12	116,116,116,116	7
88	MG	5	4454	1/1	0.95	0.23	38,38,38,38	1
87	OHX	5	3593	7/7	0.95	0.22	46,46,46,46	7
88	MG	2	2184	1/1	0.95	0.12	59,59,59,59	0
87	OHX	5	3595	7/7	0.95	0.18	56,56,56,56	7
88	MG	sM	202	1/1	0.95	0.09	44,44,44,44	0
88	MG	5	4090	1/1	0.95	0.17	52,52,52,52	0
88	MG	5	4467	1/1	0.95	0.12	55,55,55,55	0
88	MG	1	4452	1/1	0.95	0.18	56,56,56,56	1
88	MG	6	2126	1/1	0.95	0.31	43,43,43,43	0
87	OHX	5	3596	7/7	0.95	0.20	57,57,57,57	7
88	MG	1	3867	1/1	0.95	0.22	46,46,46,46	0
87	OHX	1	3533	7/7	0.95	0.10	112,112,112,112	7
88	MG	5	4474	1/1	0.95	0.23	33,33,33,33	0
87	OHX	1	3607	7/7	0.95	0.25	42,42,42,42	7
88	MG	1	4230	1/1	0.95	0.08	51,51,51,51	0
87	OHX	5	3599	7/7	0.95	0.18	43,43,43,43	7
87	OHX	2	1951	7/7	0.95	0.19	87,87,87,87	7
87	OHX	12	301	7/7	0.95	0.20	63,63,63,63	7
87	OHX	2	2026	7/7	0.95	0.18	93,93,93,93	7
87	OHX	2	1952	7/7	0.95	0.09	131,131,131,131	7
88	MG	5	4105	1/1	0.95	0.08	40,40,40,40	0
87	OHX	2	1954	7/7	0.95	0.17	88,88,88,88	7
88	MG	5	4497	1/1	0.95	0.14	33,33,33,33	1
88	MG	6	2140	1/1	0.95	0.28	44,44,44,44	0
87	OHX	2	1938	7/7	0.95	0.20	70,70,70,70	7
88	MG	5	4501	1/1	0.95	0.24	49,49,49,49	0
88	MG	1	4238	1/1	0.95	0.18	37,37,37,37	0
88	MG	1	4056	1/1	0.95	0.06	44,44,44,44	0
88	MG	1	4057	1/1	0.95	0.14	32,32,32,32	0
88	MG	1	4242	1/1	0.95	0.14	41,41,41,41	1
88	MG	5	4511	1/1	0.95	0.10	34,34,34,34	0
88	MG	5	4116	1/1	0.95	0.28	39,39,39,39	0
88	MG	1	4058	1/1	0.95	0.07	33,33,33,33	1
88	MG	5	4120	1/1	0.95	0.20	57,57,57,57	0
88	MG	5	4519	1/1	0.95	0.16	43,43,43,43	1
87	OHX	1	3544	7/7	0.95	0.23	59,59,59,59	7
88	MG	5	4521	1/1	0.95	0.08	41,41,41,41	0
88	MG	5	4123	1/1	0.95	0.09	44,44,44,44	1
87	OHX	1	3614	7/7	0.95	0.14	78,78,78,78	7
88	MG	2	2199	1/1	0.95	0.17	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	3884	1/1	0.95	0.22	66,66,66,66	0
88	MG	5	4128	1/1	0.95	0.17	33,33,33,33	1
88	MG	1	4249	1/1	0.95	0.23	66,66,66,66	0
88	MG	1	4478	1/1	0.95	0.24	46,46,46,46	0
87	OHX	1	3742	7/7	0.95	0.13	71,71,71,71	7
88	MG	5	4132	1/1	0.95	0.26	48,48,48,48	0
87	OHX	1	3805	7/7	0.95	0.15	83,83,83,83	7
88	MG	5	3851	1/1	0.95	0.19	36,36,36,36	0
87	OHX	1	3545	7/7	0.95	0.23	54,54,54,54	7
87	OHX	2	1982	7/7	0.95	0.12	100,100,100,100	7
88	MG	6	2159	1/1	0.95	0.41	45,45,45,45	0
88	MG	6	2160	1/1	0.95	0.34	59,59,59,59	0
88	MG	5	3860	1/1	0.95	0.13	35,35,35,35	0
88	MG	5	4143	1/1	0.95	0.15	36,36,36,36	0
87	OHX	5	3612	7/7	0.95	0.24	46,46,46,46	7
88	MG	5	4556	1/1	0.95	0.11	40,40,40,40	0
88	MG	1	4257	1/1	0.95	0.15	41,41,41,41	1
88	MG	1	4485	1/1	0.95	0.32	56,56,56,56	1
88	MG	6	2165	1/1	0.95	0.11	45,45,45,45	0
87	OHX	2	1957	7/7	0.95	0.16	79,79,79,79	7
87	OHX	5	3614	7/7	0.95	0.23	52,52,52,52	7
88	MG	5	4564	1/1	0.95	0.16	38,38,38,38	1
88	MG	6	2168	1/1	0.95	0.14	59,59,59,59	0
87	OHX	5	3615	7/7	0.95	0.27	38,38,38,38	7
88	MG	5	4569	1/1	0.95	0.12	30,30,30,30	0
88	MG	5	4570	1/1	0.95	0.09	49,49,49,49	0
87	OHX	2	1940	7/7	0.95	0.15	85,85,85,85	7
88	MG	5	4155	1/1	0.95	0.18	37,37,37,37	0
88	MG	1	4265	1/1	0.95	0.12	68,68,68,68	0
88	MG	5	4157	1/1	0.95	0.18	38,38,38,38	0
87	OHX	1	3550	7/7	0.95	0.15	78,78,78,78	7
88	MG	1	4076	1/1	0.95	0.24	51,51,51,51	0
88	MG	5	3877	1/1	0.95	0.15	41,41,41,41	0
88	MG	5	3878	1/1	0.95	0.11	37,37,37,37	0
87	OHX	o3	201	7/7	0.95	0.26	51,51,51,51	7
88	MG	1	3902	1/1	0.95	0.19	42,42,42,42	1
88	MG	7	222	1/1	0.95	0.14	52,52,52,52	0
87	OHX	2	1943	7/7	0.95	0.16	95,95,95,95	7
87	OHX	2	1962	7/7	0.95	0.15	97,97,97,97	7
88	MG	1	4275	1/1	0.95	0.08	58,58,58,58	0
88	MG	5	3884	1/1	0.95	0.08	37,37,37,37	0
87	OHX	3	203	7/7	0.95	0.24	56,56,56,56	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	7	229	1/1	0.95	0.39	37,37,37,37	1
88	MG	7	230	1/1	0.95	0.10	43,43,43,43	0
88	MG	5	4173	1/1	0.95	0.21	42,42,42,42	0
87	OHX	3	204	7/7	0.95	0.17	85,85,85,85	7
88	MG	5	3888	1/1	0.95	0.23	46,46,46,46	0
87	OHX	1	3687	7/7	0.95	0.19	67,67,67,67	7
88	MG	7	236	1/1	0.95	0.21	53,53,53,53	1
87	OHX	2	1987	7/7	0.95	0.17	75,75,75,75	7
87	OHX	5	3626	7/7	0.95	0.14	75,75,75,75	7
88	MG	1	4282	1/1	0.95	0.20	40,40,40,40	0
88	MG	6	2186	1/1	0.95	0.18	53,53,53,53	0
87	OHX	2	2037	7/7	0.95	0.16	60,60,60,60	7
88	MG	1	3915	1/1	0.95	0.20	42,42,42,42	0
87	OHX	S2	301	7/7	0.95	0.17	81,81,81,81	7
88	MG	8	228	1/1	0.95	0.27	46,46,46,46	1
88	MG	1	4286	1/1	0.95	0.22	40,40,40,40	1
88	MG	1	4287	1/1	0.95	0.17	41,41,41,41	0
87	OHX	2	1946	7/7	0.95	0.12	110,110,110,110	7
87	OHX	2	1965	7/7	0.95	0.14	91,91,91,91	7
87	OHX	6	2090	7/7	0.95	0.15	68,68,68,68	7
88	MG	5	4196	1/1	0.95	0.27	43,43,43,43	1
88	MG	3	217	1/1	0.95	0.30	36,36,36,36	0
88	MG	5	3903	1/1	0.95	0.26	28,28,28,28	0
88	MG	5	4200	1/1	0.95	0.24	60,60,60,60	0
87	OHX	1	3630	7/7	0.95	0.07	121,121,121,121	7
88	MG	2	2226	1/1	0.95	0.11	76,76,76,76	0
87	OHX	4	207	7/7	0.95	0.20	61,61,61,61	7
87	OHX	2	2013	7/7	0.95	0.08	158,158,158,158	7
88	MG	1	4297	1/1	0.95	0.11	52,52,52,52	0
87	OHX	1	3696	7/7	0.95	0.33	47,47,47,47	7
88	MG	1	3926	1/1	0.95	0.12	41,41,41,41	0
87	OHX	1	3564	7/7	0.95	0.14	79,79,79,79	7
87	OHX	6	2020	7/7	0.95	0.15	49,49,49,49	7
87	OHX	2	1991	7/7	0.95	0.10	104,104,104,104	7
87	OHX	2	1967	7/7	0.95	0.18	92,92,92,92	7
88	MG	5	3918	1/1	0.95	0.17	33,33,33,33	0
88	MG	5	4217	1/1	0.95	0.21	54,54,54,54	0
87	OHX	1	3568	7/7	0.95	0.13	95,95,95,95	7
88	MG	5	3920	1/1	0.95	0.15	42,42,42,42	0
88	MG	5	3921	1/1	0.95	0.16	43,43,43,43	1
88	MG	17	301	1/1	0.95	0.23	36,36,36,36	1
87	OHX	1	3569	7/7	0.95	0.26	58,58,58,58	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3469	7/7	0.95	0.18	60,60,60,60	7
88	MG	17	305	1/1	0.95	0.10	40,40,40,40	0
88	MG	5	3924	1/1	0.95	0.26	38,38,38,38	0
87	OHX	1	3571	7/7	0.95	0.22	47,47,47,47	7
88	MG	2	2241	1/1	0.95	0.25	60,60,60,60	0
87	OHX	1	3573	7/7	0.95	0.14	114,114,114,114	7
87	OHX	1	3641	7/7	0.95	0.21	58,58,58,58	7
87	OHX	d9	102	7/7	0.95	0.12	97,97,97,97	7
87	OHX	1	3486	7/7	0.95	0.26	54,54,54,54	7
88	MG	m5	504	1/1	0.95	0.08	45,45,45,45	0
88	MG	5	4235	1/1	0.95	0.36	34,34,34,34	1
88	MG	5	4236	1/1	0.95	0.25	37,37,37,37	1
87	OHX	5	3502	7/7	0.95	0.24	41,41,41,41	7
87	OHX	1	3498	7/7	0.95	0.20	63,63,63,63	7
88	MG	4	228	1/1	0.95	0.28	66,66,66,66	0
87	OHX	1	3708	7/7	0.95	0.19	62,62,62,62	7
87	OHX	5	3508	7/7	0.95	0.23	69,69,69,69	7
88	MG	m8	1504	1/1	0.95	0.32	42,42,42,42	1
88	MG	6	2224	1/1	0.95	0.11	47,47,47,47	0
87	OHX	5	3511	7/7	0.95	0.25	40,40,40,40	7
88	MG	n0	204	1/1	0.95	0.26	45,45,45,45	0
87	OHX	5	3517	7/7	0.95	0.17	56,56,56,56	7
88	MG	5	4247	1/1	0.95	0.06	51,51,51,51	0
87	OHX	2	2068	7/7	0.95	0.22	66,66,66,66	7
88	MG	1	4332	1/1	0.95	0.13	43,43,43,43	0
87	OHX	5	3521	7/7	0.95	0.28	42,42,42,42	7
88	MG	1	4334	1/1	0.95	0.31	37,37,37,37	1
88	MG	n8	202	1/1	0.95	0.13	51,51,51,51	0
87	OHX	1	3772	7/7	0.95	0.17	59,59,59,59	7
87	OHX	5	3525	7/7	0.95	0.18	51,51,51,51	7
88	MG	5	4256	1/1	0.95	0.14	59,59,59,59	0
88	MG	n8	207	1/1	0.95	0.12	39,39,39,39	1
88	MG	5	3949	1/1	0.95	0.38	45,45,45,45	0
88	MG	n9	103	1/1	0.95	0.17	40,40,40,40	1
88	MG	1	4130	1/1	0.95	0.04	49,49,49,49	1
88	MG	4	241	1/1	0.95	0.19	45,45,45,45	0
87	OHX	1	3506	7/7	0.95	0.15	93,93,93,93	7
87	OHX	5	3528	7/7	0.95	0.20	38,38,38,38	7
88	MG	5	4262	1/1	0.95	0.21	42,42,42,42	1
88	MG	2	2259	1/1	0.95	0.15	74,74,74,74	1
88	MG	L2	301	1/1	0.95	0.13	39,39,39,39	0
88	MG	q1	102	1/1	0.95	0.19	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3664	7/7	0.95	0.25	39,39,39,39	7
87	OHX	5	3531	7/7	0.95	0.24	42,42,42,42	7
88	MG	5	4269	1/1	0.95	0.12	34,34,34,34	1
87	OHX	5	3666	7/7	0.95	0.21	51,51,51,51	7
87	OHX	1	3649	7/7	0.95	0.17	59,59,59,59	7
88	MG	5	3964	1/1	0.95	0.22	27,27,27,27	0
88	MG	5	4354	1/1	0.96	0.10	54,54,54,54	0
88	MG	5	4066	1/1	0.96	0.12	49,49,49,49	0
87	OHX	1	3651	7/7	0.96	0.17	64,64,64,64	7
88	MG	5	3826	1/1	0.96	0.23	31,31,31,31	0
87	OHX	2	1970	7/7	0.96	0.16	89,89,89,89	7
87	OHX	1	3505	7/7	0.96	0.24	42,42,42,42	7
88	MG	1	3916	1/1	0.96	0.18	52,52,52,52	0
87	OHX	5	3523	7/7	0.96	0.18	49,49,49,49	7
88	MG	1	4088	1/1	0.96	0.28	42,42,42,42	0
87	OHX	6	1965	7/7	0.96	0.14	83,83,83,83	7
87	OHX	1	3554	7/7	0.96	0.16	62,62,62,62	7
88	MG	5	3835	1/1	0.96	0.20	55,55,55,55	0
87	OHX	2	1997	7/7	0.96	0.14	88,88,88,88	7
88	MG	2	2233	1/1	0.96	0.20	72,72,72,72	0
88	MG	5	3838	1/1	0.96	0.13	45,45,45,45	0
88	MG	5	4374	1/1	0.96	0.14	55,55,55,55	0
88	MG	6	2162	1/1	0.96	0.29	53,53,53,53	0
88	MG	5	3840	1/1	0.96	0.14	36,36,36,36	0
88	MG	5	3841	1/1	0.96	0.24	46,46,46,46	0
87	OHX	5	3529	7/7	0.96	0.16	47,47,47,47	7
88	MG	5	4379	1/1	0.96	0.11	53,53,53,53	0
87	OHX	2	1944	7/7	0.96	0.18	72,72,72,72	7
87	OHX	1	3605	7/7	0.96	0.21	49,49,49,49	7
87	OHX	5	3533	7/7	0.96	0.10	114,114,114,114	7
87	OHX	5	3534	7/7	0.96	0.20	42,42,42,42	7
88	MG	5	4386	1/1	0.96	0.10	39,39,39,39	1
87	OHX	6	1974	7/7	0.96	0.16	67,67,67,67	7
87	OHX	5	3655	7/7	0.96	0.14	58,58,58,58	7
88	MG	2	2243	1/1	0.96	0.09	61,61,61,61	0
88	MG	1	3930	1/1	0.96	0.15	40,40,40,40	0
88	MG	1	3931	1/1	0.96	0.35	32,32,32,32	0
87	OHX	1	3606	7/7	0.96	0.09	110,110,110,110	7
87	OHX	1	3509	7/7	0.96	0.21	49,49,49,49	7
88	MG	5	3857	1/1	0.96	0.16	36,36,36,36	0
87	OHX	1	3558	7/7	0.96	0.18	71,71,71,71	7
87	OHX	2	1927	7/7	0.96	0.15	94,94,94,94	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4108	1/1	0.96	0.12	48,48,48,48	0
88	MG	5	4101	1/1	0.96	0.16	38,38,38,38	0
88	MG	5	4401	1/1	0.96	0.08	70,70,70,70	1
88	MG	5	4402	1/1	0.96	0.16	37,37,37,37	0
87	OHX	5	3543	7/7	0.96	0.09	136,136,136,136	7
87	OHX	2	2014	7/7	0.96	0.12	80,80,80,80	7
87	OHX	1	3516	7/7	0.96	0.18	52,52,52,52	7
87	OHX	5	3663	7/7	0.96	0.18	41,41,41,41	7
88	MG	1	3941	1/1	0.96	0.15	43,43,43,43	0
88	MG	6	2183	1/1	0.96	0.16	54,54,54,54	1
88	MG	5	4109	1/1	0.96	0.07	39,39,39,39	0
88	MG	5	3871	1/1	0.96	0.21	31,31,31,31	0
87	OHX	1	3713	7/7	0.96	0.16	50,50,50,50	7
88	MG	5	4113	1/1	0.96	0.16	46,46,46,46	0
87	OHX	1	3664	7/7	0.96	0.17	50,50,50,50	7
87	OHX	6	1987	7/7	0.96	0.15	70,70,70,70	7
87	OHX	2	1953	7/7	0.96	0.12	64,64,64,64	7
87	OHX	5	3551	7/7	0.96	0.18	60,60,60,60	7
87	OHX	2	1941	7/7	0.96	0.11	92,92,92,92	7
87	OHX	1	3565	7/7	0.96	0.13	79,79,79,79	7
87	OHX	6	1991	7/7	0.96	0.12	83,83,83,83	7
88	MG	5	4124	1/1	0.96	0.12	40,40,40,40	0
87	OHX	5	3784	7/7	0.96	0.18	58,58,58,58	7
88	MG	5	4428	1/1	0.96	0.09	36,36,36,36	1
88	MG	5	4429	1/1	0.96	0.17	45,45,45,45	1
88	MG	1	3952	1/1	0.96	0.32	40,40,40,40	0
88	MG	5	4432	1/1	0.96	0.08	39,39,39,39	0
88	MG	S2	302	1/1	0.96	0.10	75,75,75,75	0
88	MG	1	4322	1/1	0.96	0.14	42,42,42,42	0
87	OHX	1	3520	7/7	0.96	0.16	55,55,55,55	7
87	OHX	2	2017	7/7	0.96	0.10	108,108,108,108	7
87	OHX	1	3522	7/7	0.96	0.21	47,47,47,47	7
87	OHX	6	1995	7/7	0.96	0.11	113,113,113,113	7
88	MG	C1	202	1/1	0.96	0.13	72,72,72,72	1
88	MG	4	222	1/1	0.96	0.31	32,32,32,32	0
87	OHX	1	3523	7/7	0.96	0.15	81,81,81,81	7
87	OHX	1	3524	7/7	0.96	0.15	68,68,68,68	7
87	OHX	5	3563	7/7	0.96	0.22	39,39,39,39	7
88	MG	1	3962	1/1	0.96	0.15	41,41,41,41	0
88	MG	5	4141	1/1	0.96	0.16	49,49,49,49	0
87	OHX	2	1964	7/7	0.96	0.14	101,101,101,101	7
88	MG	1	4139	1/1	0.96	0.12	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4337	1/1	0.96	0.17	38,38,38,38	1
87	OHX	2	2035	7/7	0.96	0.13	95,95,95,95	7
87	OHX	2	1977	7/7	0.96	0.08	138,138,138,138	7
87	OHX	1	3576	7/7	0.96	0.14	89,89,89,89	7
87	OHX	2	2054	7/7	0.96	0.14	87,87,87,87	7
87	OHX	2	1990	7/7	0.96	0.10	111,111,111,111	7
87	OHX	2	1942	7/7	0.96	0.14	74,74,74,74	7
87	OHX	5	3799	7/7	0.96	0.21	69,69,69,69	7
88	MG	5	3905	1/1	0.96	0.14	49,49,49,49	0
88	MG	5	4476	1/1	0.96	0.16	50,50,50,50	1
88	MG	1	3813	1/1	0.96	0.28	40,40,40,40	0
88	MG	1	3814	1/1	0.96	0.20	58,58,58,58	0
88	MG	5	3908	1/1	0.96	0.16	40,40,40,40	0
87	OHX	D9	102	7/7	0.96	0.12	83,83,83,83	7
88	MG	5	4483	1/1	0.96	0.08	37,37,37,37	0
88	MG	5	4484	1/1	0.96	0.10	46,46,46,46	0
87	OHX	5	3801	7/7	0.96	0.15	88,88,88,88	7
87	OHX	5	3687	7/7	0.96	0.21	54,54,54,54	7
87	OHX	L3	401	7/7	0.96	0.15	56,56,56,56	7
88	MG	5	4494	1/1	0.96	0.15	45,45,45,45	1
88	MG	5	4162	1/1	0.96	0.19	44,44,44,44	0
88	MG	5	4496	1/1	0.96	0.19	54,54,54,54	0
88	MG	6	2225	1/1	0.96	0.32	55,55,55,55	0
87	OHX	1	3582	7/7	0.96	0.16	50,50,50,50	7
88	MG	5	4166	1/1	0.96	0.12	36,36,36,36	1
87	OHX	5	3577	7/7	0.96	0.16	46,46,46,46	7
88	MG	L2	302	1/1	0.96	0.20	46,46,46,46	0
88	MG	2	2153	1/1	0.96	0.11	72,72,72,72	0
87	OHX	2	1923	7/7	0.96	0.14	80,80,80,80	7
87	OHX	1	3584	7/7	0.96	0.18	47,47,47,47	7
88	MG	L4	405	1/1	0.96	0.26	38,38,38,38	1
87	OHX	2	2076	7/7	0.96	0.10	122,122,122,122	7
87	OHX	5	3582	7/7	0.96	0.15	83,83,83,83	7
88	MG	5	4176	1/1	0.96	0.15	51,51,51,51	0
88	MG	5	4517	1/1	0.96	0.28	59,59,59,59	0
87	OHX	1	3685	7/7	0.96	0.17	55,55,55,55	7
87	OHX	5	3584	7/7	0.96	0.19	43,43,43,43	7
87	OHX	1	3587	7/7	0.96	0.10	90,90,90,90	7
88	MG	5	4180	1/1	0.96	0.11	40,40,40,40	1
88	MG	1	3991	1/1	0.96	0.18	36,36,36,36	0
88	MG	1	3992	1/1	0.96	0.25	32,32,32,32	0
87	OHX	1	3737	7/7	0.96	0.20	56,56,56,56	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4530	1/1	0.96	0.12	54,54,54,54	0
87	OHX	M5	301	7/7	0.96	0.17	75,75,75,75	7
88	MG	1	4367	1/1	0.96	0.07	43,43,43,43	1
88	MG	5	4533	1/1	0.96	0.15	38,38,38,38	0
88	MG	5	3933	1/1	0.96	0.34	33,33,33,33	0
88	MG	5	4189	1/1	0.96	0.12	39,39,39,39	1
88	MG	5	4538	1/1	0.96	0.21	45,45,45,45	0
88	MG	M3	201	1/1	0.96	0.11	45,45,45,45	0
87	OHX	1	3588	7/7	0.96	0.20	52,52,52,52	7
87	OHX	7	203	7/7	0.96	0.21	54,54,54,54	7
88	MG	1	4173	1/1	0.96	0.12	49,49,49,49	1
88	MG	1	4372	1/1	0.96	0.26	34,34,34,34	1
88	MG	M6	203	1/1	0.96	0.35	40,40,40,40	1
88	MG	1	3997	1/1	0.96	0.34	28,28,28,28	0
87	OHX	2	1958	7/7	0.96	0.18	75,75,75,75	7
87	OHX	7	206	7/7	0.96	0.16	67,67,67,67	7
88	MG	5	4554	1/1	0.96	0.10	50,50,50,50	1
88	MG	1	4000	1/1	0.96	0.09	44,44,44,44	0
88	MG	M7	206	1/1	0.96	0.16	43,43,43,43	0
88	MG	M7	207	1/1	0.96	0.18	43,43,43,43	0
88	MG	5	3947	1/1	0.96	0.34	39,39,39,39	0
87	OHX	7	207	7/7	0.96	0.17	78,78,78,78	7
88	MG	1	4381	1/1	0.96	0.10	32,32,32,32	1
88	MG	6	2265	1/1	0.96	0.10	48,48,48,48	0
88	MG	5	3951	1/1	0.96	0.30	32,32,32,32	0
88	MG	M8	203	1/1	0.96	0.16	41,41,41,41	0
88	MG	5	4566	1/1	0.96	0.27	50,50,50,50	0
88	MG	M8	204	1/1	0.96	0.19	46,46,46,46	1
87	OHX	1	3590	7/7	0.96	0.15	74,74,74,74	7
87	OHX	1	3477	7/7	0.96	0.13	88,88,88,88	7
88	MG	6	2270	1/1	0.96	0.16	61,61,61,61	0
88	MG	1	4181	1/1	0.96	0.15	40,40,40,40	1
88	MG	5	4220	1/1	0.96	0.18	38,38,38,38	0
88	MG	1	4387	1/1	0.96	0.10	37,37,37,37	1
87	OHX	5	3594	7/7	0.96	0.14	73,73,73,73	7
87	OHX	1	3482	7/7	0.96	0.20	65,65,65,65	7
88	MG	5	3963	1/1	0.96	0.30	28,28,28,28	0
88	MG	1	4186	1/1	0.96	0.10	65,65,65,65	0
87	OHX	1	3484	7/7	0.96	0.19	49,49,49,49	7
88	MG	N6	202	1/1	0.96	0.07	58,58,58,58	1
88	MG	5	4228	1/1	0.96	0.14	35,35,35,35	1
87	OHX	8	203	7/7	0.96	0.16	86,86,86,86	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3643	7/7	0.96	0.17	64,64,64,64	7
87	OHX	8	205	7/7	0.96	0.18	64,64,64,64	7
88	MG	5	4234	1/1	0.96	0.08	33,33,33,33	1
88	MG	1	4397	1/1	0.96	0.21	36,36,36,36	1
87	OHX	O7	102	7/7	0.96	0.17	73,73,73,73	7
87	OHX	Q2	502	7/7	0.96	0.20	45,45,45,45	7
88	MG	1	4014	1/1	0.96	0.32	30,30,30,30	0
87	OHX	6	1921	7/7	0.96	0.20	51,51,51,51	7
87	OHX	6	1925	7/7	0.96	0.11	87,87,87,87	7
87	OHX	5	3602	7/7	0.96	0.13	74,74,74,74	7
87	OHX	6	2098	7/7	0.96	0.10	113,113,113,113	7
88	MG	7	237	1/1	0.96	0.10	51,51,51,51	1
87	OHX	6	1931	7/7	0.96	0.18	71,71,71,71	7
88	MG	1	3856	1/1	0.96	0.23	49,49,49,49	0
88	MG	8	222	1/1	0.96	0.17	41,41,41,41	0
87	OHX	6	1938	7/7	0.96	0.13	69,69,69,69	7
88	MG	1	4208	1/1	0.96	0.15	41,41,41,41	1
88	MG	1	4209	1/1	0.96	0.31	35,35,35,35	0
88	MG	5	3983	1/1	0.96	0.26	45,45,45,45	0
88	MG	1	3858	1/1	0.96	0.15	41,41,41,41	0
88	MG	5	3985	1/1	0.96	0.26	32,32,32,32	0
87	OHX	6	1939	7/7	0.96	0.16	103,103,103,103	7
88	MG	5	4255	1/1	0.96	0.07	54,54,54,54	0
87	OHX	6	1940	7/7	0.96	0.15	64,64,64,64	7
87	OHX	1	3694	7/7	0.96	0.17	51,51,51,51	7
87	OHX	2	1959	7/7	0.96	0.08	127,127,127,127	7
87	OHX	6	1949	7/7	0.96	0.16	73,73,73,73	7
88	MG	6	2303	1/1	0.96	0.08	78,78,78,78	0
87	OHX	1	3487	7/7	0.96	0.10	118,118,118,118	7
88	MG	O7	109	1/1	0.96	0.33	46,46,46,46	1
87	OHX	2	1995	7/7	0.96	0.16	86,86,86,86	7
87	OHX	l3	401	7/7	0.96	0.21	52,52,52,52	7
87	OHX	5	3430	7/7	0.96	0.24	38,38,38,38	7
88	MG	6	2310	1/1	0.96	0.40	48,48,48,48	1
88	MG	Q2	504	1/1	0.96	0.10	50,50,50,50	0
87	OHX	5	3440	7/7	0.96	0.15	70,70,70,70	7
88	MG	l2	307	1/1	0.96	0.58	46,46,46,46	1
87	OHX	5	3461	7/7	0.96	0.22	40,40,40,40	7
88	MG	5	4004	1/1	0.96	0.26	48,48,48,48	0
88	MG	l3	406	1/1	0.96	0.15	31,31,31,31	1
87	OHX	5	3474	7/7	0.96	0.24	45,45,45,45	7
87	OHX	5	3475	7/7	0.96	0.15	79,79,79,79	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	l3	411	1/1	0.96	0.14	33,33,33,33	1
87	OHX	5	3479	7/7	0.96	0.23	49,49,49,49	7
87	OHX	5	3619	7/7	0.96	0.19	46,46,46,46	7
88	MG	1	4437	1/1	0.96	0.07	43,43,43,43	1
88	MG	1	4044	1/1	0.96	0.23	44,44,44,44	0
87	OHX	5	3480	7/7	0.96	0.17	57,57,57,57	7
88	MG	5	4013	1/1	0.96	0.33	33,33,33,33	0
88	MG	l5	308	1/1	0.96	0.19	49,49,49,49	1
87	OHX	5	3483	7/7	0.96	0.20	48,48,48,48	7
88	MG	l7	302	1/1	0.96	0.15	35,35,35,35	1
88	MG	1	4442	1/1	0.96	0.09	45,45,45,45	1
88	MG	1	3881	1/1	0.96	0.15	41,41,41,41	0
87	OHX	5	3484	7/7	0.96	0.17	48,48,48,48	7
88	MG	1	4445	1/1	0.96	0.10	49,49,49,49	1
88	MG	1	4447	1/1	0.96	0.20	58,58,58,58	1
88	MG	5	4297	1/1	0.96	0.05	37,37,37,37	0
88	MG	l9	202	1/1	0.96	0.15	38,38,38,38	0
87	OHX	5	3623	7/7	0.96	0.14	81,81,81,81	7
88	MG	5	4301	1/1	0.96	0.14	34,34,34,34	1
88	MG	1	4450	1/1	0.96	0.15	50,50,50,50	0
87	OHX	5	3487	7/7	0.96	0.24	51,51,51,51	7
88	MG	m5	503	1/1	0.96	0.13	48,48,48,48	0
88	MG	1	4053	1/1	0.96	0.15	38,38,38,38	0
87	OHX	m5	501	7/7	0.96	0.16	81,81,81,81	7
88	MG	m6	201	1/1	0.96	0.13	38,38,38,38	1
88	MG	1	3887	1/1	0.96	0.14	45,45,45,45	0
88	MG	s8	302	1/1	0.96	0.20	45,45,45,45	0
87	OHX	5	3489	7/7	0.96	0.16	67,67,67,67	7
88	MG	m7	203	1/1	0.96	0.21	33,33,33,33	0
87	OHX	5	3490	7/7	0.96	0.17	89,89,89,89	7
87	OHX	5	3492	7/7	0.96	0.19	48,48,48,48	7
88	MG	m8	1501	1/1	0.96	0.31	42,42,42,42	1
87	OHX	5	3496	7/7	0.96	0.14	75,75,75,75	7
88	MG	1	4459	1/1	0.96	0.08	51,51,51,51	0
88	MG	m9	202	1/1	0.96	0.17	54,54,54,54	1
88	MG	5	4317	1/1	0.96	0.41	66,66,66,66	1
88	MG	1	4241	1/1	0.96	0.17	47,47,47,47	1
87	OHX	1	3499	7/7	0.96	0.17	57,57,57,57	7
88	MG	1	4462	1/1	0.96	0.12	43,43,43,43	0
88	MG	n1	202	1/1	0.96	0.07	40,40,40,40	1
88	MG	1	3894	1/1	0.96	0.23	48,48,48,48	0
87	OHX	5	3503	7/7	0.96	0.21	62,62,62,62	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	6	1955	7/7	0.96	0.09	145,145,145,145	7
87	OHX	6	1958	7/7	0.96	0.17	77,77,77,77	7
87	OHX	1	3500	7/7	0.96	0.14	90,90,90,90	7
88	MG	5	4326	1/1	0.96	0.07	79,79,79,79	0
88	MG	2	2092	1/1	0.96	0.28	40,40,40,40	0
87	OHX	6	2039	7/7	0.96	0.17	46,46,46,46	7
88	MG	6	2136	1/1	0.96	0.18	54,54,54,54	0
88	MG	1	3903	1/1	0.96	0.14	59,59,59,59	0
87	OHX	5	3513	7/7	0.96	0.18	56,56,56,56	7
87	OHX	5	3515	7/7	0.96	0.07	132,132,132,132	7
87	OHX	5	3516	7/7	0.96	0.22	42,42,42,42	7
88	MG	1	4474	1/1	0.96	0.25	47,47,47,47	1
88	MG	1	4075	1/1	0.96	0.08	43,43,43,43	0
88	MG	5	4055	1/1	0.96	0.19	39,39,39,39	0
88	MG	1	3909	1/1	0.96	0.19	49,49,49,49	0
87	OHX	6	1960	7/7	0.96	0.18	72,72,72,72	7
88	MG	6	2145	1/1	0.96	0.20	33,33,33,33	0
87	OHX	5	3518	7/7	0.96	0.17	56,56,56,56	7
88	MG	1	4262	1/1	0.96	0.11	33,33,33,33	0
87	OHX	5	3641	7/7	0.96	0.19	68,68,68,68	7
88	MG	1	4080	1/1	0.96	0.10	49,49,49,49	0
89	ZN	Q2	501	1/1	0.96	0.15	73,73,73,73	0
88	MG	5	3822	1/1	0.96	0.06	35,35,35,35	0
89	ZN	e1	501	1/1	0.96	0.06	163,163,163,163	0
88	MG	1	4081	1/1	0.96	0.14	46,46,46,46	0
88	MG	6	2151	1/1	0.96	0.32	47,47,47,47	0
88	MG	1	4025	1/1	0.97	0.08	62,62,62,62	0
88	MG	1	4188	1/1	0.97	0.15	38,38,38,38	0
88	MG	L7	301	1/1	0.97	0.06	39,39,39,39	0
88	MG	5	4394	1/1	0.97	0.23	38,38,38,38	1
88	MG	1	4189	1/1	0.97	0.09	40,40,40,40	1
87	OHX	5	3510	7/7	0.97	0.19	39,39,39,39	7
87	OHX	q1	101	7/7	0.97	0.18	46,46,46,46	7
87	OHX	1	3488	7/7	0.97	0.09	113,113,113,113	7
87	OHX	1	3491	7/7	0.97	0.19	44,44,44,44	7
87	OHX	1	3546	7/7	0.97	0.15	55,55,55,55	7
88	MG	M0	308	1/1	0.97	0.18	44,44,44,44	1
88	MG	5	4403	1/1	0.97	0.07	48,48,48,48	0
88	MG	M0	309	1/1	0.97	0.07	46,46,46,46	1
87	OHX	3	205	7/7	0.97	0.13	80,80,80,80	7
88	MG	1	4032	1/1	0.97	0.15	41,41,41,41	0
87	OHX	6	1964	7/7	0.97	0.14	49,49,49,49	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	M3	203	1/1	0.97	0.10	46,46,46,46	1
88	MG	1	4388	1/1	0.97	0.13	37,37,37,37	1
88	MG	5	4135	1/1	0.97	0.08	38,38,38,38	0
88	MG	1	3886	1/1	0.97	0.15	49,49,49,49	0
88	MG	M5	303	1/1	0.97	0.10	41,41,41,41	1
88	MG	M5	304	1/1	0.97	0.14	40,40,40,40	1
88	MG	5	4139	1/1	0.97	0.10	34,34,34,34	1
87	OHX	1	3492	7/7	0.97	0.21	45,45,45,45	7
88	MG	5	4418	1/1	0.97	0.08	35,35,35,35	0
88	MG	1	4036	1/1	0.97	0.31	47,47,47,47	0
87	OHX	1	3495	7/7	0.97	0.14	54,54,54,54	7
87	OHX	6	1967	7/7	0.97	0.15	47,47,47,47	7
87	OHX	1	3497	7/7	0.97	0.13	83,83,83,83	7
87	OHX	2	1936	7/7	0.97	0.17	72,72,72,72	7
87	OHX	5	3524	7/7	0.97	0.14	62,62,62,62	7
88	MG	5	4148	1/1	0.97	0.12	40,40,40,40	0
88	MG	1	4398	1/1	0.97	0.10	48,48,48,48	0
87	OHX	6	1970	7/7	0.97	0.12	88,88,88,88	7
88	MG	6	2245	1/1	0.97	0.11	60,60,60,60	0
88	MG	5	4431	1/1	0.97	0.23	50,50,50,50	0
88	MG	M7	208	1/1	0.97	0.10	40,40,40,40	0
88	MG	5	4433	1/1	0.97	0.23	37,37,37,37	1
88	MG	5	4434	1/1	0.97	0.25	40,40,40,40	0
88	MG	5	4435	1/1	0.97	0.08	40,40,40,40	0
87	OHX	2	1908	7/7	0.97	0.09	104,104,104,104	0
88	MG	1	4045	1/1	0.97	0.10	42,42,42,42	0
88	MG	M8	202	1/1	0.97	0.37	39,39,39,39	1
88	MG	6	2250	1/1	0.97	0.26	47,47,47,47	0
87	OHX	6	1972	7/7	0.97	0.16	59,59,59,59	7
88	MG	5	4444	1/1	0.97	0.12	42,42,42,42	1
88	MG	6	2252	1/1	0.97	0.21	47,47,47,47	0
88	MG	5	4448	1/1	0.97	0.13	38,38,38,38	1
88	MG	6	2253	1/1	0.97	0.12	47,47,47,47	0
88	MG	6	2254	1/1	0.97	0.08	53,53,53,53	0
88	MG	1	4215	1/1	0.97	0.10	54,54,54,54	0
87	OHX	6	1973	7/7	0.97	0.15	86,86,86,86	7
88	MG	5	3928	1/1	0.97	0.07	39,39,39,39	0
88	MG	5	4164	1/1	0.97	0.13	45,45,45,45	0
88	MG	5	4456	1/1	0.97	0.14	62,62,62,62	0
87	OHX	5	3530	7/7	0.97	0.16	42,42,42,42	7
88	MG	1	4406	1/1	0.97	0.10	56,56,56,56	0
88	MG	5	4462	1/1	0.97	0.08	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	6	2259	1/1	0.97	0.04	48,48,48,48	0
88	MG	1	4407	1/1	0.97	0.19	42,42,42,42	1
88	MG	5	4466	1/1	0.97	0.26	36,36,36,36	1
87	OHX	1	3553	7/7	0.97	0.15	87,87,87,87	7
88	MG	1	3900	1/1	0.97	0.33	42,42,42,42	0
87	OHX	6	1975	7/7	0.97	0.15	61,61,61,61	7
87	OHX	2	1939	7/7	0.97	0.10	98,98,98,98	7
87	OHX	6	1977	7/7	0.97	0.13	86,86,86,86	7
88	MG	1	3905	1/1	0.97	0.08	43,43,43,43	0
88	MG	5	4473	1/1	0.97	0.08	38,38,38,38	1
88	MG	5	3939	1/1	0.97	0.17	48,48,48,48	0
87	OHX	4	203	7/7	0.97	0.15	61,61,61,61	7
87	OHX	5	3536	7/7	0.97	0.19	54,54,54,54	7
87	OHX	4	206	7/7	0.97	0.14	88,88,88,88	7
88	MG	2	2236	1/1	0.97	0.08	64,64,64,64	0
88	MG	5	4479	1/1	0.97	0.26	34,34,34,34	1
87	OHX	2	1924	7/7	0.97	0.13	89,89,89,89	7
88	MG	2	2238	1/1	0.97	0.05	89,89,89,89	0
88	MG	5	4482	1/1	0.97	0.18	46,46,46,46	0
87	OHX	1	3503	7/7	0.97	0.15	60,60,60,60	7
88	MG	O1	202	1/1	0.97	0.20	60,60,60,60	1
88	MG	5	4185	1/1	0.97	0.16	35,35,35,35	1
88	MG	5	4487	1/1	0.97	0.30	35,35,35,35	1
87	OHX	2	1909	7/7	0.97	0.11	94,94,94,94	7
88	MG	5	4489	1/1	0.97	0.05	38,38,38,38	0
87	OHX	5	3541	7/7	0.97	0.16	46,46,46,46	7
87	OHX	5	3542	7/7	0.97	0.15	52,52,52,52	7
88	MG	5	4190	1/1	0.97	0.10	39,39,39,39	0
88	MG	1	4429	1/1	0.97	0.13	43,43,43,43	0
88	MG	6	2280	1/1	0.97	0.10	46,46,46,46	0
88	MG	5	4193	1/1	0.97	0.17	36,36,36,36	0
88	MG	5	3953	1/1	0.97	0.23	30,30,30,30	0
87	OHX	2	1956	7/7	0.97	0.12	91,91,91,91	7
88	MG	5	4502	1/1	0.97	0.32	38,38,38,38	1
87	OHX	2	1928	7/7	0.97	0.14	75,75,75,75	7
88	MG	5	4505	1/1	0.97	0.08	33,33,33,33	0
88	MG	5	4197	1/1	0.97	0.09	43,43,43,43	0
88	MG	1	4432	1/1	0.97	0.07	41,41,41,41	0
88	MG	1	4433	1/1	0.97	0.17	39,39,39,39	1
87	OHX	2	1930	7/7	0.97	0.14	77,77,77,77	7
87	OHX	5	3546	7/7	0.97	0.21	47,47,47,47	7
88	MG	5	4513	1/1	0.97	0.08	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3510	7/7	0.97	0.16	50,50,50,50	7
87	OHX	1	3511	7/7	0.97	0.13	98,98,98,98	7
88	MG	5	4516	1/1	0.97	0.09	43,43,43,43	0
88	MG	1	4438	1/1	0.97	0.19	51,51,51,51	0
88	MG	5	4518	1/1	0.97	0.05	35,35,35,35	1
88	MG	6	2290	1/1	0.97	0.10	52,52,52,52	0
88	MG	1	4074	1/1	0.97	0.17	31,31,31,31	0
88	MG	O7	107	1/1	0.97	0.38	42,42,42,42	1
87	OHX	C8	202	7/7	0.97	0.09	94,94,94,94	7
88	MG	6	2294	1/1	0.97	0.08	43,43,43,43	0
88	MG	5	4211	1/1	0.97	0.10	38,38,38,38	0
87	OHX	2	1975	7/7	0.97	0.08	112,112,112,112	7
88	MG	5	4214	1/1	0.97	0.18	41,41,41,41	0
88	MG	1	4243	1/1	0.97	0.14	44,44,44,44	1
87	OHX	1	3514	7/7	0.97	0.19	41,41,41,41	7
87	OHX	1	3515	7/7	0.97	0.15	50,50,50,50	7
87	OHX	L3	402	7/7	0.97	0.16	67,67,67,67	7
87	OHX	5	3554	7/7	0.97	0.13	45,45,45,45	7
88	MG	1	4448	1/1	0.97	0.19	44,44,44,44	0
87	OHX	2	1912	7/7	0.97	0.10	109,109,109,109	0
88	MG	2	2131	1/1	0.97	0.10	73,73,73,73	0
87	OHX	5	3556	7/7	0.97	0.13	50,50,50,50	7
88	MG	5	4542	1/1	0.97	0.15	34,34,34,34	1
87	OHX	1	3432	7/7	0.97	0.18	46,46,46,46	7
87	OHX	1	3518	7/7	0.97	0.20	40,40,40,40	7
88	MG	5	4548	1/1	0.97	0.06	39,39,39,39	0
87	OHX	1	3441	7/7	0.97	0.16	51,51,51,51	7
87	OHX	1	3625	7/7	0.97	0.07	186,186,186,186	7
87	OHX	1	3572	7/7	0.97	0.14	53,53,53,53	7
87	OHX	2	1945	7/7	0.97	0.10	110,110,110,110	7
87	OHX	1	3448	7/7	0.97	0.15	70,70,70,70	7
88	MG	1	3939	1/1	0.97	0.19	38,38,38,38	0
88	MG	6	2314	1/1	0.97	0.18	48,48,48,48	0
88	MG	5	4557	1/1	0.97	0.06	41,41,41,41	0
88	MG	6	2111	1/1	0.97	0.31	49,49,49,49	0
88	MG	1	4261	1/1	0.97	0.13	56,56,56,56	0
87	OHX	1	3452	7/7	0.97	0.13	85,85,85,85	7
88	MG	1	4263	1/1	0.97	0.06	36,36,36,36	0
87	OHX	1	3453	7/7	0.97	0.17	50,50,50,50	7
88	MG	5	3994	1/1	0.97	0.36	41,41,41,41	0
87	OHX	5	3566	7/7	0.97	0.09	98,98,98,98	7
87	OHX	M9	201	7/7	0.97	0.14	68,68,68,68	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3568	7/7	0.97	0.16	66,66,66,66	7
88	MG	1	4268	1/1	0.97	0.29	46,46,46,46	1
88	MG	5	4246	1/1	0.97	0.21	58,58,58,58	0
88	MG	1	4269	1/1	0.97	0.16	45,45,45,45	1
87	OHX	1	3454	7/7	0.97	0.13	79,79,79,79	7
88	MG	6	2327	1/1	0.97	0.12	78,78,78,78	0
88	MG	6	2328	1/1	0.97	0.11	54,54,54,54	1
87	OHX	1	3460	7/7	0.97	0.22	50,50,50,50	7
87	OHX	1	3634	7/7	0.97	0.09	82,82,82,82	7
88	MG	5	4253	1/1	0.97	0.13	29,29,29,29	0
88	MG	7	218	1/1	0.97	0.12	39,39,39,39	0
87	OHX	1	3466	7/7	0.97	0.14	88,88,88,88	7
88	MG	1	3949	1/1	0.97	0.27	38,38,38,38	0
87	OHX	5	3689	7/7	0.97	0.16	45,45,45,45	7
88	MG	s1	303	1/1	0.97	0.09	77,77,77,77	0
88	MG	6	2127	1/1	0.97	0.24	45,45,45,45	0
87	OHX	2	1978	7/7	0.97	0.07	121,121,121,121	7
87	OHX	5	3574	7/7	0.97	0.16	55,55,55,55	7
87	OHX	1	3470	7/7	0.97	0.16	90,90,90,90	7
87	OHX	O7	103	7/7	0.97	0.16	60,60,60,60	7
87	OHX	1	3475	7/7	0.97	0.19	55,55,55,55	7
87	OHX	6	1914	7/7	0.97	0.14	52,52,52,52	7
88	MG	5	4266	1/1	0.97	0.20	45,45,45,45	0
88	MG	7	232	1/1	0.97	0.13	52,52,52,52	0
87	OHX	6	1918	7/7	0.97	0.19	56,56,56,56	7
87	OHX	6	1919	7/7	0.97	0.12	68,68,68,68	7
88	MG	5	4020	1/1	0.97	0.32	37,37,37,37	0
88	MG	1	4113	1/1	0.97	0.11	59,59,59,59	0
87	OHX	1	3476	7/7	0.97	0.20	75,75,75,75	7
88	MG	1	4288	1/1	0.97	0.08	39,39,39,39	0
88	MG	5	4274	1/1	0.97	0.11	35,35,35,35	1
88	MG	1	3819	1/1	0.97	0.18	31,31,31,31	0
87	OHX	2	1913	7/7	0.97	0.15	87,87,87,87	7
87	OHX	6	1929	7/7	0.97	0.20	53,53,53,53	7
87	OHX	5	3585	7/7	0.97	0.20	46,46,46,46	7
88	MG	5	4280	1/1	0.97	0.16	44,44,44,44	1
87	OHX	5	3702	7/7	0.97	0.14	74,74,74,74	7
87	OHX	6	1930	7/7	0.97	0.15	59,59,59,59	7
87	OHX	1	3481	7/7	0.97	0.15	87,87,87,87	7
88	MG	d3	202	1/1	0.97	0.14	49,49,49,49	1
87	OHX	6	1933	7/7	0.97	0.11	82,82,82,82	7
87	OHX	c8	201	7/7	0.97	0.10	95,95,95,95	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4299	1/1	0.97	0.17	41,41,41,41	1
88	MG	5	4292	1/1	0.97	0.07	48,48,48,48	1
88	MG	8	235	1/1	0.97	0.13	61,61,61,61	1
88	MG	1	4125	1/1	0.97	0.06	36,36,36,36	0
88	MG	1	3969	1/1	0.97	0.16	29,29,29,29	0
87	OHX	6	1937	7/7	0.97	0.10	88,88,88,88	7
88	MG	5	4040	1/1	0.97	0.15	35,35,35,35	0
87	OHX	5	3591	7/7	0.97	0.21	46,46,46,46	7
88	MG	12	302	1/1	0.97	0.15	36,36,36,36	0
88	MG	5	4042	1/1	0.97	0.38	51,51,51,51	0
88	MG	5	4303	1/1	0.97	0.09	41,41,41,41	1
87	OHX	2	1916	7/7	0.97	0.11	89,89,89,89	7
87	OHX	1	3537	7/7	0.97	0.16	54,54,54,54	7
87	OHX	5	3434	7/7	0.97	0.15	48,48,48,48	7
87	OHX	1	3538	7/7	0.97	0.20	49,49,49,49	7
88	MG	5	4308	1/1	0.97	0.07	29,29,29,29	0
88	MG	5	4047	1/1	0.97	0.16	33,33,33,33	0
88	MG	1	4309	1/1	0.97	0.15	41,41,41,41	1
87	OHX	5	3441	7/7	0.97	0.16	63,63,63,63	7
88	MG	13	410	1/1	0.97	0.13	31,31,31,31	1
87	OHX	5	3453	7/7	0.97	0.17	67,67,67,67	7
88	MG	1	3978	1/1	0.97	0.28	31,31,31,31	0
88	MG	13	413	1/1	0.97	0.12	32,32,32,32	1
87	OHX	5	3457	7/7	0.97	0.16	72,72,72,72	7
88	MG	1	3980	1/1	0.97	0.30	37,37,37,37	0
87	OHX	8	212	7/7	0.97	0.13	85,85,85,85	7
88	MG	1	3839	1/1	0.97	0.26	43,43,43,43	0
87	OHX	5	3458	7/7	0.97	0.13	56,56,56,56	7
87	OHX	5	3459	7/7	0.97	0.16	58,58,58,58	7
87	OHX	6	1942	7/7	0.97	0.12	70,70,70,70	7
88	MG	2	2180	1/1	0.97	0.19	68,68,68,68	0
88	MG	1	3987	1/1	0.97	0.19	36,36,36,36	0
87	OHX	5	3469	7/7	0.97	0.15	61,61,61,61	7
88	MG	1	4329	1/1	0.97	0.07	49,49,49,49	0
88	MG	1	4330	1/1	0.97	0.08	56,56,56,56	0
87	OHX	5	3470	7/7	0.97	0.12	78,78,78,78	7
87	OHX	5	3471	7/7	0.97	0.14	81,81,81,81	7
87	OHX	5	3473	7/7	0.97	0.13	44,44,44,44	7
87	OHX	6	1943	7/7	0.97	0.11	108,108,108,108	7
87	OHX	1	3483	7/7	0.97	0.14	74,74,74,74	7
88	MG	1	3850	1/1	0.97	0.12	48,48,48,48	0
88	MG	5	4334	1/1	0.97	0.15	39,39,39,39	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4153	1/1	0.97	0.08	42,42,42,42	0
88	MG	2	2187	1/1	0.97	0.12	87,87,87,87	0
88	MG	5	4337	1/1	0.97	0.17	46,46,46,46	0
87	OHX	1	3646	7/7	0.97	0.13	96,96,96,96	7
88	MG	5	4340	1/1	0.97	0.10	35,35,35,35	1
87	OHX	6	1946	7/7	0.97	0.13	71,71,71,71	7
88	MG	m6	204	1/1	0.97	0.06	40,40,40,40	0
87	OHX	5	3481	7/7	0.97	0.17	46,46,46,46	7
87	OHX	6	1947	7/7	0.97	0.17	59,59,59,59	7
88	MG	m7	204	1/1	0.97	0.16	40,40,40,40	1
87	OHX	6	1948	7/7	0.97	0.12	86,86,86,86	7
87	OHX	5	3485	7/7	0.97	0.13	51,51,51,51	7
88	MG	1	4161	1/1	0.97	0.23	54,54,54,54	0
87	OHX	1	3647	7/7	0.97	0.07	199,199,199,199	7
88	MG	6	2189	1/1	0.97	0.23	47,47,47,47	0
88	MG	5	3855	1/1	0.97	0.26	32,32,32,32	0
88	MG	1	4163	1/1	0.97	0.17	42,42,42,42	1
87	OHX	5	3488	7/7	0.97	0.16	42,42,42,42	7
88	MG	5	3858	1/1	0.97	0.27	35,35,35,35	0
88	MG	5	4085	1/1	0.97	0.18	37,37,37,37	0
88	MG	1	3861	1/1	0.97	0.09	42,42,42,42	0
87	OHX	1	3593	7/7	0.97	0.17	37,37,37,37	7
88	MG	5	4358	1/1	0.97	0.06	49,49,49,49	1
88	MG	1	4006	1/1	0.97	0.34	41,41,41,41	0
88	MG	1	3863	1/1	0.97	0.21	42,42,42,42	0
87	OHX	6	1952	7/7	0.97	0.13	84,84,84,84	7
87	OHX	1	3540	7/7	0.97	0.15	52,52,52,52	7
88	MG	n8	203	1/1	0.97	0.03	41,41,41,41	0
87	OHX	2	1948	7/7	0.97	0.17	67,67,67,67	7
87	OHX	5	3497	7/7	0.97	0.15	57,57,57,57	7
88	MG	5	3868	1/1	0.97	0.10	32,32,32,32	0
88	MG	5	3869	1/1	0.97	0.28	45,45,45,45	0
87	OHX	5	3501	7/7	0.97	0.15	59,59,59,59	7
88	MG	1	3869	1/1	0.97	0.26	39,39,39,39	0
88	MG	1	4015	1/1	0.97	0.55	27,27,27,27	0
87	OHX	2	1934	7/7	0.97	0.11	103,103,103,103	7
87	OHX	6	1956	7/7	0.97	0.12	90,90,90,90	7
87	OHX	5	3504	7/7	0.97	0.17	38,38,38,38	7
87	OHX	6	1957	7/7	0.97	0.14	63,63,63,63	7
88	MG	5	4104	1/1	0.97	0.08	49,49,49,49	0
88	MG	o4	201	1/1	0.97	0.16	70,70,70,70	1
87	OHX	2	1922	7/7	0.97	0.11	75,75,75,75	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	3	201	7/7	0.97	0.13	71,71,71,71	7
88	MG	1	4183	1/1	0.97	0.15	47,47,47,47	1
88	MG	L3	405	1/1	0.97	0.11	42,42,42,42	0
87	OHX	5	3509	7/7	0.97	0.09	107,107,107,107	7
88	MG	L4	403	1/1	0.97	0.20	34,34,34,34	0
88	MG	6	2213	1/1	0.97	0.12	68,68,68,68	1
88	MG	1	3878	1/1	0.97	0.09	49,49,49,49	0
88	MG	6	2215	1/1	0.97	0.31	52,52,52,52	0
88	MG	5	3886	1/1	0.97	0.26	46,46,46,46	0
87	OHX	6	1911	7/7	0.98	0.09	59,59,59,59	7
87	OHX	8	207	7/7	0.98	0.13	74,74,74,74	7
87	OHX	6	1913	7/7	0.98	0.08	85,85,85,85	7
88	MG	1	4068	1/1	0.98	0.28	40,40,40,40	0
88	MG	1	4206	1/1	0.98	0.08	47,47,47,47	0
88	MG	5	4265	1/1	0.98	0.17	39,39,39,39	1
87	OHX	C8	201	7/7	0.98	0.09	94,94,94,94	7
87	OHX	5	3512	7/7	0.98	0.11	60,60,60,60	7
87	OHX	6	1915	7/7	0.98	0.16	63,63,63,63	7
87	OHX	5	3514	7/7	0.98	0.11	60,60,60,60	7
87	OHX	5	3727	7/7	0.98	0.19	48,48,48,48	7
88	MG	5	4491	1/1	0.98	0.27	53,53,53,53	0
88	MG	5	4492	1/1	0.98	0.07	57,57,57,57	0
88	MG	5	4493	1/1	0.98	0.13	41,41,41,41	1
87	OHX	1	3574	7/7	0.98	0.17	40,40,40,40	7
88	MG	5	4272	1/1	0.98	0.08	33,33,33,33	1
87	OHX	1	3471	7/7	0.98	0.14	49,49,49,49	7
88	MG	5	3913	1/1	0.98	0.11	39,39,39,39	0
88	MG	5	4498	1/1	0.98	0.15	42,42,42,42	1
87	OHX	6	1920	7/7	0.98	0.08	114,114,114,114	7
88	MG	5	4088	1/1	0.98	0.20	36,36,36,36	1
87	OHX	1	3472	7/7	0.98	0.12	70,70,70,70	7
87	OHX	6	1923	7/7	0.98	0.12	71,71,71,71	7
87	OHX	5	3520	7/7	0.98	0.12	88,88,88,88	7
88	MG	5	4504	1/1	0.98	0.10	40,40,40,40	1
88	MG	5	4282	1/1	0.98	0.11	34,34,34,34	1
87	OHX	1	3577	7/7	0.98	0.13	54,54,54,54	7
88	MG	5	4507	1/1	0.98	0.08	52,52,52,52	1
87	OHX	6	1926	7/7	0.98	0.14	55,55,55,55	7
87	OHX	6	1927	7/7	0.98	0.08	109,109,109,109	7
88	MG	5	4510	1/1	0.98	0.21	30,30,30,30	1
88	MG	5	4287	1/1	0.98	0.15	35,35,35,35	1
87	OHX	6	1928	7/7	0.98	0.08	118,118,118,118	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3473	7/7	0.98	0.14	62,62,62,62	7
88	MG	1	4371	1/1	0.98	0.08	43,43,43,43	1
87	OHX	5	3526	7/7	0.98	0.11	94,94,94,94	7
88	MG	1	4373	1/1	0.98	0.18	35,35,35,35	1
88	MG	1	4086	1/1	0.98	0.14	50,50,50,50	0
87	OHX	2	1915	7/7	0.98	0.09	122,122,122,122	7
88	MG	6	2308	1/1	0.98	0.13	51,51,51,51	1
87	OHX	2	1929	7/7	0.98	0.13	66,66,66,66	7
88	MG	5	4298	1/1	0.98	0.11	40,40,40,40	0
88	MG	5	4299	1/1	0.98	0.06	43,43,43,43	1
88	MG	1	4377	1/1	0.98	0.10	60,60,60,60	0
87	OHX	6	2084	7/7	0.98	0.11	79,79,79,79	7
88	MG	5	4302	1/1	0.98	0.16	35,35,35,35	1
88	MG	5	4526	1/1	0.98	0.07	43,43,43,43	0
88	MG	5	4528	1/1	0.98	0.13	43,43,43,43	0
88	MG	5	4529	1/1	0.98	0.21	36,36,36,36	1
88	MG	1	4379	1/1	0.98	0.08	33,33,33,33	1
87	OHX	5	3636	7/7	0.98	0.09	73,73,73,73	7
87	OHX	2	1966	7/7	0.98	0.11	61,61,61,61	7
87	OHX	m0	301	7/7	0.98	0.12	86,86,86,86	7
88	MG	5	4534	1/1	0.98	0.28	48,48,48,48	1
88	MG	1	4093	1/1	0.98	0.10	42,42,42,42	0
88	MG	5	4536	1/1	0.98	0.18	39,39,39,39	1
87	OHX	6	1934	7/7	0.98	0.15	57,57,57,57	7
88	MG	5	4112	1/1	0.98	0.20	36,36,36,36	1
88	MG	5	4310	1/1	0.98	0.04	33,33,33,33	0
88	MG	6	2318	1/1	0.98	0.07	54,54,54,54	0
87	OHX	6	1935	7/7	0.98	0.11	56,56,56,56	7
87	OHX	6	1936	7/7	0.98	0.13	57,57,57,57	7
87	OHX	1	3478	7/7	0.98	0.14	59,59,59,59	7
88	MG	5	4544	1/1	0.98	0.16	42,42,42,42	1
87	OHX	1	3479	7/7	0.98	0.15	55,55,55,55	7
88	MG	5	4546	1/1	0.98	0.07	49,49,49,49	1
88	MG	5	4118	1/1	0.98	0.26	48,48,48,48	1
88	MG	5	4119	1/1	0.98	0.08	42,42,42,42	0
87	OHX	1	3480	7/7	0.98	0.15	62,62,62,62	7
87	OHX	1	3415	7/7	0.98	0.10	66,66,66,66	7
88	MG	5	4122	1/1	0.98	0.14	55,55,55,55	0
88	MG	5	4553	1/1	0.98	0.08	50,50,50,50	0
88	MG	4	238	1/1	0.98	0.08	40,40,40,40	1
87	OHX	1	3586	7/7	0.98	0.11	91,91,91,91	7
87	OHX	1	3416	7/7	0.98	0.11	59,59,59,59	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3532	7/7	0.98	0.13	54,54,54,54	7
87	OHX	1	3417	7/7	0.98	0.15	48,48,48,48	7
87	OHX	o7	502	7/7	0.98	0.18	64,64,64,64	7
87	OHX	1	3534	7/7	0.98	0.14	62,62,62,62	7
88	MG	4	245	1/1	0.98	0.22	51,51,51,51	0
87	OHX	1	3418	7/7	0.98	0.14	56,56,56,56	7
88	MG	5	4563	1/1	0.98	0.07	48,48,48,48	1
88	MG	1	3854	1/1	0.98	0.10	51,51,51,51	0
87	OHX	1	3536	7/7	0.98	0.07	128,128,128,128	7
87	OHX	q2	502	7/7	0.98	0.14	51,51,51,51	7
88	MG	5	4567	1/1	0.98	0.09	34,34,34,34	1
88	MG	5	3957	1/1	0.98	0.35	29,29,29,29	0
87	OHX	1	3485	7/7	0.98	0.10	89,89,89,89	7
88	MG	L3	406	1/1	0.98	0.15	39,39,39,39	1
88	MG	5	4571	1/1	0.98	0.25	48,48,48,48	1
88	MG	1	4250	1/1	0.98	0.10	51,51,51,51	0
88	MG	L3	408	1/1	0.98	0.20	53,53,53,53	1
88	MG	5	4339	1/1	0.98	0.10	53,53,53,53	1
87	OHX	1	3431	7/7	0.98	0.13	45,45,45,45	7
88	MG	L4	404	1/1	0.98	0.11	42,42,42,42	1
87	OHX	6	1951	7/7	0.98	0.06	133,133,133,133	7
88	MG	2	2207	1/1	0.98	0.13	61,61,61,61	0
87	OHX	2	1906	7/7	0.98	0.10	82,82,82,82	7
87	OHX	1	3435	7/7	0.98	0.10	69,69,69,69	7
88	MG	1	4411	1/1	0.98	0.05	60,60,60,60	1
87	OHX	4	204	7/7	0.98	0.13	57,57,57,57	7
87	OHX	4	205	7/7	0.98	0.11	75,75,75,75	7
87	OHX	1	3489	7/7	0.98	0.14	56,56,56,56	7
87	OHX	1	3439	7/7	0.98	0.16	61,61,61,61	7
88	MG	1	4416	1/1	0.98	0.11	56,56,56,56	0
87	OHX	5	3427	7/7	0.98	0.10	61,61,61,61	7
87	OHX	5	3429	7/7	0.98	0.10	47,47,47,47	7
87	OHX	2	1917	7/7	0.98	0.13	85,85,85,85	7
87	OHX	1	3493	7/7	0.98	0.15	50,50,50,50	7
87	OHX	5	3436	7/7	0.98	0.14	51,51,51,51	7
87	OHX	1	3494	7/7	0.98	0.12	62,62,62,62	7
88	MG	5	4360	1/1	0.98	0.06	35,35,35,35	1
88	MG	2	2220	1/1	0.98	0.06	70,70,70,70	1
88	MG	1	3874	1/1	0.98	0.19	46,46,46,46	0
88	MG	1	4426	1/1	0.98	0.23	49,49,49,49	0
87	OHX	1	3442	7/7	0.98	0.12	65,65,65,65	7
87	OHX	5	3443	7/7	0.98	0.14	60,60,60,60	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	1	4271	1/1	0.98	0.04	46,46,46,46	0
88	MG	7	240	1/1	0.98	0.11	47,47,47,47	1
88	MG	5	4368	1/1	0.98	0.16	38,38,38,38	1
88	MG	M6	202	1/1	0.98	0.19	41,41,41,41	1
87	OHX	5	3444	7/7	0.98	0.16	46,46,46,46	7
87	OHX	5	3445	7/7	0.98	0.11	72,72,72,72	7
87	OHX	5	3447	7/7	0.98	0.15	43,43,43,43	7
88	MG	5	4373	1/1	0.98	0.07	36,36,36,36	1
88	MG	5	3990	1/1	0.98	0.21	21,21,21,21	0
88	MG	5	4170	1/1	0.98	0.05	41,41,41,41	0
87	OHX	5	3448	7/7	0.98	0.13	70,70,70,70	7
88	MG	M7	204	1/1	0.98	0.24	40,40,40,40	0
87	OHX	5	3449	7/7	0.98	0.12	79,79,79,79	7
87	OHX	5	3451	7/7	0.98	0.15	54,54,54,54	7
87	OHX	5	3452	7/7	0.98	0.09	115,115,115,115	0
88	MG	1	4279	1/1	0.98	0.08	38,38,38,38	1
87	OHX	1	3496	7/7	0.98	0.15	41,41,41,41	7
87	OHX	5	3454	7/7	0.98	0.18	42,42,42,42	7
87	OHX	1	3444	7/7	0.98	0.12	59,59,59,59	7
87	OHX	1	3445	7/7	0.98	0.10	88,88,88,88	7
88	MG	5	3832	1/1	0.98	0.09	34,34,34,34	0
88	MG	1	3888	1/1	0.98	0.17	41,41,41,41	0
88	MG	5	4003	1/1	0.98	0.23	28,28,28,28	0
87	OHX	2	1918	7/7	0.98	0.14	80,80,80,80	7
87	OHX	2	1921	7/7	0.98	0.10	88,88,88,88	7
88	MG	1	4446	1/1	0.98	0.08	54,54,54,54	0
87	OHX	1	3552	7/7	0.98	0.13	70,70,70,70	7
88	MG	5	4188	1/1	0.98	0.04	36,36,36,36	0
88	MG	l3	404	1/1	0.98	0.04	33,33,33,33	0
87	OHX	1	3450	7/7	0.98	0.14	61,61,61,61	7
87	OHX	1	3502	7/7	0.98	0.22	38,38,38,38	7
87	OHX	5	3472	7/7	0.98	0.15	46,46,46,46	7
88	MG	l3	408	1/1	0.98	0.08	31,31,31,31	0
88	MG	5	4399	1/1	0.98	0.09	40,40,40,40	1
87	OHX	1	3451	7/7	0.98	0.13	70,70,70,70	7
88	MG	5	4012	1/1	0.98	0.31	29,29,29,29	0
87	OHX	1	3504	7/7	0.98	0.11	71,71,71,71	7
88	MG	5	3843	1/1	0.98	0.31	38,38,38,38	0
87	OHX	2	1911	7/7	0.98	0.08	109,109,109,109	0
87	OHX	5	3476	7/7	0.98	0.13	63,63,63,63	7
88	MG	l4	403	1/1	0.98	0.06	39,39,39,39	0
88	MG	5	4406	1/1	0.98	0.09	47,47,47,47	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3477	7/7	0.98	0.11	69,69,69,69	7
87	OHX	5	3478	7/7	0.98	0.16	54,54,54,54	7
88	MG	15	307	1/1	0.98	0.05	46,46,46,46	1
88	MG	1	3901	1/1	0.98	0.06	48,48,48,48	0
88	MG	15	309	1/1	0.98	0.07	54,54,54,54	1
87	OHX	2	1907	7/7	0.98	0.08	93,93,93,93	7
87	OHX	2	1903	7/7	0.98	0.10	90,90,90,90	0
87	OHX	1	3508	7/7	0.98	0.13	74,74,74,74	7
87	OHX	5	3482	7/7	0.98	0.13	64,64,64,64	7
88	MG	1	3906	1/1	0.98	0.41	44,44,44,44	0
88	MG	5	4415	1/1	0.98	0.15	39,39,39,39	1
88	MG	5	4206	1/1	0.98	0.11	35,35,35,35	1
88	MG	5	3854	1/1	0.98	0.17	58,58,58,58	0
88	MG	6	2236	1/1	0.98	0.10	54,54,54,54	0
88	MG	19	203	1/1	0.98	0.06	46,46,46,46	1
87	OHX	1	3456	7/7	0.98	0.18	60,60,60,60	7
88	MG	1	4164	1/1	0.98	0.07	35,35,35,35	1
88	MG	O2	201	1/1	0.98	0.19	30,30,30,30	0
87	OHX	1	3457	7/7	0.98	0.11	96,96,96,96	7
87	OHX	6	1978	7/7	0.98	0.11	52,52,52,52	7
88	MG	5	4032	1/1	0.98	0.07	34,34,34,34	0
87	OHX	5	3486	7/7	0.98	0.14	50,50,50,50	7
88	MG	5	4427	1/1	0.98	0.24	44,44,44,44	1
88	MG	5	4034	1/1	0.98	0.17	29,29,29,29	0
87	OHX	1	3619	7/7	0.98	0.12	51,51,51,51	7
88	MG	5	3863	1/1	0.98	0.16	41,41,41,41	0
88	MG	1	4311	1/1	0.98	0.07	35,35,35,35	1
88	MG	1	4312	1/1	0.98	0.15	51,51,51,51	0
87	OHX	1	3458	7/7	0.98	0.11	59,59,59,59	7
88	MG	1	4315	1/1	0.98	0.09	59,59,59,59	0
88	MG	1	4316	1/1	0.98	0.17	36,36,36,36	1
88	MG	m7	207	1/1	0.98	0.08	41,41,41,41	1
88	MG	m7	208	1/1	0.98	0.12	40,40,40,40	1
88	MG	m7	209	1/1	0.98	0.14	42,42,42,42	1
88	MG	5	4436	1/1	0.98	0.11	33,33,33,33	0
88	MG	m8	1502	1/1	0.98	0.06	47,47,47,47	0
87	OHX	2	1937	7/7	0.98	0.10	94,94,94,94	7
87	OHX	1	3461	7/7	0.98	0.14	62,62,62,62	7
87	OHX	1	3462	7/7	0.98	0.12	45,45,45,45	7
88	MG	1	4041	1/1	0.98	0.15	35,35,35,35	0
88	MG	n0	202	1/1	0.98	0.17	38,38,38,38	1
87	OHX	5	3493	7/7	0.98	0.14	62,62,62,62	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3494	7/7	0.98	0.11	66,66,66,66	7
87	OHX	5	3495	7/7	0.98	0.16	46,46,46,46	7
88	MG	5	4446	1/1	0.98	0.08	44,44,44,44	0
88	MG	5	4447	1/1	0.98	0.07	39,39,39,39	1
88	MG	5	4233	1/1	0.98	0.09	36,36,36,36	1
88	MG	5	4449	1/1	0.98	0.11	33,33,33,33	1
87	OHX	1	3463	7/7	0.98	0.10	113,113,113,113	7
88	MG	1	4325	1/1	0.98	0.31	60,60,60,60	0
87	OHX	7	201	7/7	0.98	0.13	70,70,70,70	7
88	MG	1	4047	1/1	0.98	0.16	41,41,41,41	0
87	OHX	7	202	7/7	0.98	0.11	60,60,60,60	7
87	OHX	1	3465	7/7	0.98	0.15	75,75,75,75	7
88	MG	C1	201	1/1	0.98	0.16	69,69,69,69	0
87	OHX	7	204	7/7	0.98	0.14	43,43,43,43	7
88	MG	5	4459	1/1	0.98	0.27	36,36,36,36	1
87	OHX	5	3498	7/7	0.98	0.13	46,46,46,46	7
88	MG	5	4461	1/1	0.98	0.06	44,44,44,44	0
87	OHX	5	3499	7/7	0.98	0.13	104,104,104,104	7
87	OHX	5	3500	7/7	0.98	0.10	75,75,75,75	7
88	MG	1	4055	1/1	0.98	0.20	38,38,38,38	0
87	OHX	6	1986	7/7	0.98	0.12	73,73,73,73	7
88	MG	1	4190	1/1	0.98	0.07	47,47,47,47	1
88	MG	o3	205	1/1	0.98	0.21	35,35,35,35	1
87	OHX	2	1926	7/7	0.98	0.10	81,81,81,81	7
87	OHX	1	3467	7/7	0.98	0.17	43,43,43,43	7
87	OHX	1	3628	7/7	0.98	0.14	43,43,43,43	7
88	MG	q1	103	1/1	0.98	0.15	46,46,46,46	1
87	OHX	2	1914	7/7	0.98	0.14	69,69,69,69	7
88	MG	q3	502	1/1	0.98	0.25	43,43,43,43	1
87	OHX	5	3506	7/7	0.98	0.18	48,48,48,48	7
88	MG	1	4500	1/1	0.98	0.11	60,60,60,60	0
89	ZN	E1	501	1/1	0.98	0.04	132,132,132,132	0
87	OHX	6	1905	7/7	0.98	0.10	74,74,74,74	0
88	MG	1	4197	1/1	0.98	0.07	38,38,38,38	0
87	OHX	6	1907	7/7	0.98	0.09	76,76,76,76	0
89	ZN	q2	501	1/1	0.98	0.12	69,69,69,69	0
88	MG	1	3812	1/1	0.98	0.34	49,49,49,49	0
88	MG	1	4201	1/1	0.98	0.10	52,52,52,52	1
87	OHX	1	3421	7/7	0.99	0.09	71,71,71,71	7
87	OHX	1	3422	7/7	0.99	0.08	71,71,71,71	7
87	OHX	6	1916	7/7	0.99	0.10	65,65,65,65	7
87	OHX	6	1917	7/7	0.99	0.08	55,55,55,55	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3423	7/7	0.99	0.13	65,65,65,65	7
87	OHX	1	3464	7/7	0.99	0.13	65,65,65,65	7
87	OHX	5	3404	7/7	0.99	0.10	42,42,42,42	2
87	OHX	5	3405	7/7	0.99	0.10	57,57,57,57	1
87	OHX	5	3407	7/7	0.99	0.10	50,50,50,50	7
87	OHX	5	3408	7/7	0.99	0.10	64,64,64,64	7
87	OHX	5	3409	7/7	0.99	0.08	51,51,51,51	7
87	OHX	5	3410	7/7	0.99	0.10	43,43,43,43	7
87	OHX	5	3411	7/7	0.99	0.09	74,74,74,74	1
87	OHX	5	3412	7/7	0.99	0.10	46,46,46,46	7
87	OHX	5	3413	7/7	0.99	0.09	63,63,63,63	0
87	OHX	5	3414	7/7	0.99	0.11	58,58,58,58	7
87	OHX	5	3415	7/7	0.99	0.10	55,55,55,55	7
88	MG	6	2264	1/1	0.99	0.09	46,46,46,46	1
88	MG	5	4421	1/1	0.99	0.06	48,48,48,48	1
87	OHX	5	3416	7/7	0.99	0.08	56,56,56,56	7
87	OHX	5	3417	7/7	0.99	0.07	45,45,45,45	7
87	OHX	5	3418	7/7	0.99	0.10	55,55,55,55	7
87	OHX	5	3419	7/7	0.99	0.06	56,56,56,56	7
87	OHX	5	3420	7/7	0.99	0.08	70,70,70,70	0
87	OHX	5	3421	7/7	0.99	0.09	49,49,49,49	7
87	OHX	5	3422	7/7	0.99	0.07	59,59,59,59	7
88	MG	7	227	1/1	0.99	0.13	41,41,41,41	1
87	OHX	5	3423	7/7	0.99	0.07	66,66,66,66	7
87	OHX	5	3424	7/7	0.99	0.09	64,64,64,64	0
88	MG	5	4279	1/1	0.99	0.10	41,41,41,41	0
87	OHX	5	3425	7/7	0.99	0.10	49,49,49,49	7
88	MG	5	4281	1/1	0.99	0.12	38,38,38,38	1
87	OHX	5	3426	7/7	0.99	0.10	40,40,40,40	7
88	MG	1	4423	1/1	0.99	0.07	55,55,55,55	1
88	MG	5	4284	1/1	0.99	0.09	39,39,39,39	1
88	MG	5	4437	1/1	0.99	0.04	33,33,33,33	0
88	MG	1	4295	1/1	0.99	0.09	44,44,44,44	1
87	OHX	1	3424	7/7	0.99	0.08	79,79,79,79	0
87	OHX	5	3428	7/7	0.99	0.09	59,59,59,59	7
88	MG	5	4144	1/1	0.99	0.06	32,32,32,32	1
88	MG	1	4427	1/1	0.99	0.15	42,42,42,42	1
88	MG	5	4443	1/1	0.99	0.08	34,34,34,34	1
88	MG	1	3832	1/1	0.99	0.11	38,38,38,38	1
87	OHX	4	201	7/7	0.99	0.15	52,52,52,52	2
87	OHX	6	1922	7/7	0.99	0.07	58,58,58,58	7
88	MG	5	4293	1/1	0.99	0.19	33,33,33,33	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	5	3432	7/7	0.99	0.12	54,54,54,54	7
87	OHX	5	3433	7/7	0.99	0.07	100,100,100,100	0
88	MG	L4	402	1/1	0.99	0.12	43,43,43,43	0
87	OHX	4	202	7/7	0.99	0.09	55,55,55,55	7
87	OHX	n1	201	7/7	0.99	0.10	48,48,48,48	7
87	OHX	n3	201	7/7	0.99	0.11	55,55,55,55	7
88	MG	L4	406	1/1	0.99	0.11	38,38,38,38	1
88	MG	1	4306	1/1	0.99	0.04	45,45,45,45	1
88	MG	1	4185	1/1	0.99	0.06	46,46,46,46	0
88	MG	5	4457	1/1	0.99	0.08	45,45,45,45	1
87	OHX	5	3435	7/7	0.99	0.12	57,57,57,57	7
87	OHX	n9	101	7/7	0.99	0.11	59,59,59,59	7
87	OHX	6	1924	7/7	0.99	0.10	54,54,54,54	7
87	OHX	5	3437	7/7	0.99	0.09	54,54,54,54	7
87	OHX	5	3438	7/7	0.99	0.11	56,56,56,56	7
88	MG	1	4313	1/1	0.99	0.13	38,38,38,38	1
87	OHX	5	3439	7/7	0.99	0.07	82,82,82,82	7
88	MG	5	4465	1/1	0.99	0.09	38,38,38,38	0
87	OHX	1	3425	7/7	0.99	0.11	62,62,62,62	7
87	OHX	1	3426	7/7	0.99	0.12	55,55,55,55	7
87	OHX	5	3442	7/7	0.99	0.11	56,56,56,56	7
87	OHX	1	3468	7/7	0.99	0.09	54,54,54,54	7
87	OHX	1	3427	7/7	0.99	0.08	86,86,86,86	7
88	MG	M3	202	1/1	0.99	0.08	49,49,49,49	1
87	OHX	1	3428	7/7	0.99	0.09	64,64,64,64	7
88	MG	1	4198	1/1	0.99	0.07	59,59,59,59	1
87	OHX	5	3446	7/7	0.99	0.12	41,41,41,41	7
87	OHX	1	3429	7/7	0.99	0.09	53,53,53,53	7
87	OHX	1	3560	7/7	0.99	0.10	54,54,54,54	7
87	OHX	6	1932	7/7	0.99	0.09	47,47,47,47	7
87	OHX	5	3450	7/7	0.99	0.10	77,77,77,77	7
87	OHX	1	3430	7/7	0.99	0.08	68,68,68,68	7
87	OHX	2	1904	7/7	0.99	0.10	89,89,89,89	7
87	OHX	1	3474	7/7	0.99	0.09	58,58,58,58	7
87	OHX	2	1919	7/7	0.99	0.06	78,78,78,78	7
87	OHX	5	3455	7/7	0.99	0.10	80,80,80,80	7
87	OHX	5	3456	7/7	0.99	0.12	68,68,68,68	7
87	OHX	1	3433	7/7	0.99	0.10	61,61,61,61	7
88	MG	5	4486	1/1	0.99	0.11	46,46,46,46	0
87	OHX	1	3434	7/7	0.99	0.12	59,59,59,59	7
87	OHX	2	1920	7/7	0.99	0.12	84,84,84,84	7
87	OHX	5	3460	7/7	0.99	0.10	45,45,45,45	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
88	MG	5	4333	1/1	0.99	0.07	47,47,47,47	0
87	OHX	1	3436	7/7	0.99	0.10	75,75,75,75	7
88	MG	M7	210	1/1	0.99	0.05	45,45,45,45	1
87	OHX	5	3462	7/7	0.99	0.08	63,63,63,63	7
87	OHX	5	3463	7/7	0.99	0.11	66,66,66,66	7
88	MG	1	4340	1/1	0.99	0.09	40,40,40,40	0
87	OHX	5	3464	7/7	0.99	0.12	63,63,63,63	7
87	OHX	5	3465	7/7	0.99	0.13	49,49,49,49	7
87	OHX	5	3466	7/7	0.99	0.06	90,90,90,90	7
88	MG	N0	201	1/1	0.99	0.11	49,49,49,49	1
87	OHX	5	3467	7/7	0.99	0.09	76,76,76,76	7
87	OHX	5	3468	7/7	0.99	0.12	53,53,53,53	7
87	OHX	6	1941	7/7	0.99	0.09	79,79,79,79	7
87	OHX	1	3437	7/7	0.99	0.12	52,52,52,52	7
87	OHX	1	3438	7/7	0.99	0.10	55,55,55,55	7
87	OHX	2	1905	7/7	0.99	0.11	71,71,71,71	7
88	MG	5	4349	1/1	0.99	0.09	39,39,39,39	1
87	OHX	5	3580	7/7	0.99	0.14	52,52,52,52	7
87	OHX	1	3440	7/7	0.99	0.10	61,61,61,61	7
87	OHX	1	3401	7/7	0.99	0.08	48,48,48,48	0
88	MG	5	4353	1/1	0.99	0.06	36,36,36,36	1
87	OHX	1	3402	7/7	0.99	0.09	58,58,58,58	2
87	OHX	1	3443	7/7	0.99	0.12	69,69,69,69	7
87	OHX	1	3404	7/7	0.99	0.07	59,59,59,59	2
87	OHX	1	3405	7/7	0.99	0.09	58,58,58,58	1
87	OHX	1	3446	7/7	0.99	0.09	46,46,46,46	7
87	OHX	1	3490	7/7	0.99	0.11	66,66,66,66	7
88	MG	5	4212	1/1	0.99	0.11	44,44,44,44	0
88	MG	1	4116	1/1	0.99	0.39	51,51,51,51	0
87	OHX	1	3407	7/7	0.99	0.09	64,64,64,64	0
87	OHX	1	3409	7/7	0.99	0.07	55,55,55,55	1
88	MG	1	4362	1/1	0.99	0.08	42,42,42,42	1
88	MG	O1	206	1/1	0.99	0.13	59,59,59,59	1
88	MG	5	4366	1/1	0.99	0.30	47,47,47,47	1
87	OHX	1	3449	7/7	0.99	0.08	74,74,74,74	7
87	OHX	1	3411	7/7	0.99	0.11	53,53,53,53	7
87	OHX	1	3413	7/7	0.99	0.08	56,56,56,56	7
88	MG	n1	203	1/1	0.99	0.05	37,37,37,37	1
88	MG	5	4527	1/1	0.99	0.10	39,39,39,39	0
87	OHX	N9	101	7/7	0.99	0.11	58,58,58,58	7
88	MG	1	4007	1/1	0.99	0.26	31,31,31,31	0
88	MG	n3	205	1/1	0.99	0.13	34,34,34,34	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	OHX	1	3414	7/7	0.99	0.13	49,49,49,49	7
87	OHX	2	1910	7/7	0.99	0.08	94,94,94,94	7
87	OHX	2	1902	7/7	0.99	0.08	86,86,86,86	0
87	OHX	1	3455	7/7	0.99	0.10	81,81,81,81	7
87	OHX	5	3491	7/7	0.99	0.13	47,47,47,47	7
87	OHX	2	1901	7/7	0.99	0.10	81,81,81,81	0
87	OHX	6	1901	7/7	0.99	0.09	62,62,62,62	0
88	MG	5	4230	1/1	0.99	0.10	44,44,44,44	0
88	MG	5	4380	1/1	0.99	0.06	34,34,34,34	1
88	MG	1	4131	1/1	0.99	0.09	41,41,41,41	0
87	OHX	6	1902	7/7	0.99	0.08	77,77,77,77	2
87	OHX	6	1903	7/7	0.99	0.10	63,63,63,63	3
88	MG	5	4384	1/1	0.99	0.04	40,40,40,40	0
88	MG	1	4253	1/1	0.99	0.11	44,44,44,44	1
87	OHX	6	1904	7/7	0.99	0.08	71,71,71,71	7
87	OHX	2	1925	7/7	0.99	0.06	112,112,112,112	7
88	MG	5	4237	1/1	0.99	0.09	38,38,38,38	1
88	MG	5	4547	1/1	0.99	0.12	41,41,41,41	1
87	OHX	6	1906	7/7	0.99	0.11	55,55,55,55	7
88	MG	o7	504	1/1	0.99	0.10	37,37,37,37	1
88	MG	q0	202	1/1	0.99	0.12	42,42,42,42	0
87	OHX	1	3419	7/7	0.99	0.10	62,62,62,62	7
88	MG	1	4383	1/1	0.99	0.07	51,51,51,51	1
87	OHX	6	1908	7/7	0.99	0.09	71,71,71,71	7
88	MG	1	4385	1/1	0.99	0.06	59,59,59,59	1
88	MG	1	4022	1/1	0.99	0.07	40,40,40,40	0
89	ZN	D6	101	1/1	0.99	0.04	88,88,88,88	0
87	OHX	6	1909	7/7	0.99	0.10	79,79,79,79	7
87	OHX	s1	301	7/7	0.99	0.06	80,80,80,80	0
87	OHX	6	1910	7/7	0.99	0.07	60,60,60,60	7
89	ZN	d6	500	1/1	0.99	0.04	67,67,67,67	0
87	OHX	8	202	7/7	0.99	0.12	49,49,49,49	2
89	ZN	d9	101	1/1	0.99	0.03	81,81,81,81	0
87	OHX	1	3459	7/7	0.99	0.10	74,74,74,74	7
88	MG	1	4392	1/1	0.99	0.09	45,45,45,45	1
87	OHX	6	1912	7/7	0.99	0.09	72,72,72,72	7
87	OHX	1	3420	7/7	0.99	0.11	49,49,49,49	7
87	OHX	1	3410	7/7	1.00	0.04	67,67,67,67	0
87	OHX	1	3403	7/7	1.00	0.09	48,48,48,48	2
89	ZN	D9	101	1/1	1.00	0.02	79,79,79,79	0
87	OHX	8	201	7/7	1.00	0.07	55,55,55,55	7
89	ZN	O7	101	1/1	1.00	0.02	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
89	ZN	Q0	201	1/1	1.00	0.03	53,53,53,53	0
87	OHX	5	3401	7/7	1.00	0.07	48,48,48,48	3
89	ZN	Q3	501	1/1	1.00	0.01	73,73,73,73	0
87	OHX	5	3402	7/7	1.00	0.07	48,48,48,48	0
87	OHX	5	3403	7/7	1.00	0.09	44,44,44,44	2
87	OHX	5	3431	7/7	1.00	0.08	50,50,50,50	7
87	OHX	1	3412	7/7	1.00	0.09	69,69,69,69	0
89	ZN	o7	501	1/1	1.00	0.01	53,53,53,53	0
89	ZN	q0	201	1/1	1.00	0.01	40,40,40,40	0
87	OHX	1	3408	7/7	1.00	0.07	47,47,47,47	7
89	ZN	q3	501	1/1	1.00	0.03	64,64,64,64	0
87	OHX	5	3406	7/7	1.00	0.08	58,58,58,58	2
87	OHX	1	3406	7/7	1.00	0.07	53,53,53,53	3

6.5 Other polymers [i](#)

There are no such residues in this entry.