



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 04:12 AM UTC

PDB ID : 5OBM / pdb_00005obm
Title : Crystal structure of Gentamicin bound to the yeast 80S ribosome
Authors : Prokhorova, I.; Djumagulov, M.; Urzhumtsev, A.; Yusupov, M.; Yusupova, G.
Deposited on : 2017-06-28
Resolution : 3.40 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<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 : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

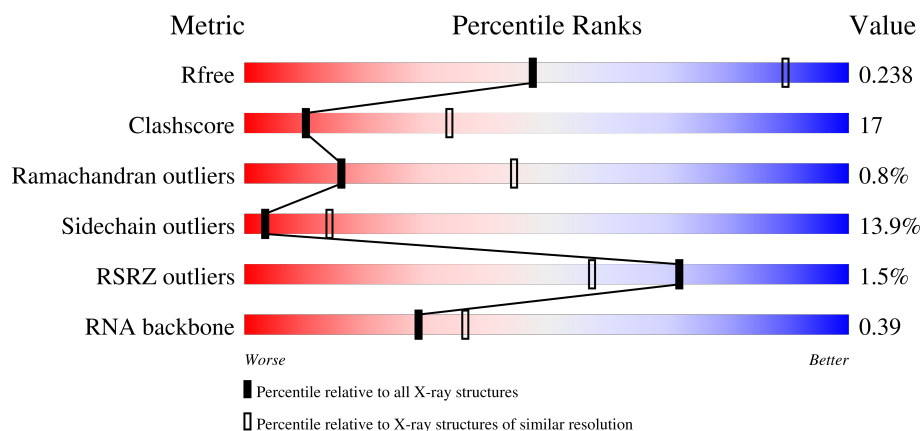
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 Å.

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



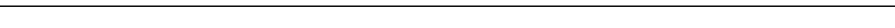
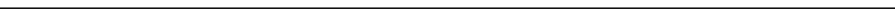
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1001 (3.44-3.36)
Clashscore	190562	1022 (3.44-3.36)
Ramachandran outliers	187476	1012 (3.44-3.36)
Sidechain outliers	187428	1012 (3.44-3.36)
RSRZ outliers	180081	1001 (3.44-3.36)
RNA backbone	3983	1157 (3.80-3.00)

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	1	3396	 40% 40% 12% 9%
1	5	3396	 39% 41% 13% 8%
2	3	121	 43% 49% 8%
2	7	121	 37% 51% 12%

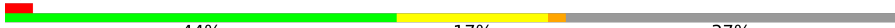
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Mol	Chain	Length	Quality of chain
3	4	158	
3	8	158	
4	L2	252	
4	l2	252	
5	L3	386	
5	l3	386	
6	L4	361	
6	l4	361	
7	L5	296	
7	l5	296	
8	L6	176	
8	l6	176	
9	L7	223	
9	l7	223	
10	L8	233	
10	l8	233	
11	L9	191	
11	l9	191	
12	M0	221	
12	m0	221	
13	M1	169	
13	m1	169	
14	M3	194	
14	m3	194	
15	M4	137	

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Mol	Chain	Length	Quality of chain
15	m4	137	
16	M5	203	
16	m5	203	
17	M6	197	
17	m6	197	
18	M7	184	
18	m7	184	
19	M8	185	
19	m8	185	
20	M9	188	
20	m9	188	
21	N0	172	
21	n0	172	
22	N1	159	
22	n1	159	
23	N2	100	
23	n2	100	
24	N3	136	
24	n3	136	
25	N4	155	
26	N5	121	
26	n5	121	
27	N6	126	
27	n6	126	
28	N7	135	

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Mol	Chain	Length	Quality of chain
28	n7	135	
29	N8	148	
29	n8	148	
30	N9	58	
30	n9	58	
31	O0	100	
31	o0	100	
32	O1	109	
32	o1	109	
33	O2	127	
33	o2	127	
34	O3	106	
34	o3	106	
35	O4	112	
35	o4	112	
36	O5	119	
36	o5	119	
37	O6	99	
37	o6	99	
38	O7	87	
38	o7	87	
39	O8	77	
39	o8	77	
40	O9	50	
40	o9	50	

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Mol	Chain	Length	Quality of chain
41	Q0	52	
41	q0	52	
42	Q1	25	
42	q1	25	
43	Q2	105	
43	q2	105	
44	Q3	91	
44	q3	91	
45	2	1800	
45	6	1800	
46	S0	206	
46	s0	206	
47	S1	216	
47	s1	216	
48	S2	217	
48	s2	217	
49	S3	223	
49	s3	223	
50	S4	260	
50	s4	260	
51	S5	206	
51	s5	206	
52	S6	236	
52	s6	236	
53	S7	186	

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Mol	Chain	Length	Quality of chain
53	s7	186	
54	S8	200	
54	s8	200	
55	S9	185	
55	s9	185	
56	C0	105	
56	c0	105	
57	C1	156	
57	c1	156	
58	C2	143	
58	c2	143	
59	C3	150	
59	c3	150	
60	C4	128	
60	c4	128	
61	C5	141	
61	c5	141	
62	C6	142	
62	c6	142	
63	C7	136	
63	c7	136	
64	C8	145	
64	c8	145	
65	C9	143	
65	c9	143	

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Mol	Chain	Length	Quality of chain
66	D0	110	
66	d0	110	
67	D1	87	
67	d1	87	
68	D2	129	
68	d2	129	
69	D3	144	
69	d3	144	
70	D4	134	
70	d4	134	
71	D5	70	
71	d5	70	
72	D6	97	
72	d6	97	
73	D7	81	
73	d7	81	
74	D8	63	
74	d8	63	
75	D9	53	
75	d9	53	
76	E0	62	
76	e0	62	
77	E1	72	
77	e1	72	
78	SR	318	

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Mol	Chain	Length	Quality of chain
78	sR	318	% 53% 42% .
79	SM	272	3% 40% 14% . 42%
79	sM	272	% 29% 15% . 53%
80	m2	165	72% 19% 9%
81	n4	135	65% 31% . .
82	p0	312	% 29% 14% . 54%
83	p1	47	96% .

2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 404238 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 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1	3100	Total	C	N	O	P	0	0	0
			66304	29617	11950	21637	3100			
1	5	3134	Total	C	N	O	P	0	0	0
			67039	29943	12089	21873	3134			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
2	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 3 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	4	156	Total	C	N	O	P	0	0	0
			3313	1482	582	1093	156			
3	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 4 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
4	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 5 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	L3	386	Total	C	N	O	S	0	0	0
			3081	1956	584	533	8			
5	l3	386	Total	C	N	O	S	0	0	0
			3081	1956	584	533	8			

- Molecule 6 is a protein called 60S ribosomal protein L4-A.

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

- Molecule 7 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
7	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 8 is a protein called 60S ribosomal protein L6-A.

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

- Molecule 9 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
9	l7	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 10 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	L8	233	Total	C	N	O	S	0	0	0
			1817	1159	326	329	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	l8	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 11 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
11	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 12 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	M0	212	Total	C	N	O	S	0	0	0
			1707	1084	323	295	5			
12	m0	211	Total	C	N	O	S	0	0	0
			1716	1090	324	296	6			

- Molecule 13 is a protein called 60S ribosomal protein L11-B.

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

- Molecule 14 is a protein called 60S ribosomal protein L13-A.

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

- Molecule 15 is a protein called 60S ribosomal protein L14-A.

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

- Molecule 16 is a protein called 60S ribosomal protein L15-A.

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

- Molecule 17 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
17	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 18 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	M7	183	Total	C	N	O	S	0	0	0
			1415	877	281	257				
18	m7	155	Total	C	N	O	S	0	0	0
			1227	764	238	225				

- Molecule 19 is a protein called 60S ribosomal protein L18-A.

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

- Molecule 20 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	M9	182	Total	C	N	O	S	0	0	0
			1474	905	319	250				
20	m9	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				

- Molecule 21 is a protein called 60S ribosomal protein L20-A.

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

- Molecule 22 is a protein called 60S ribosomal protein L21-A.

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

- Molecule 23 is a protein called 60S ribosomal protein L22-A.

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

- Molecule 24 is a protein called 60S ribosomal protein L23-A.

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

- Molecule 25 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

- Molecule 26 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	N5	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			
26	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 27 is a protein called 60S ribosomal protein L26-A.

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

- Molecule 28 is a protein called 60S ribosomal protein L27-A.

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

- Molecule 29 is a protein called 60S ribosomal protein L28.

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

- Molecule 30 is a protein called 60S ribosomal protein L29.

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

- Molecule 31 is a protein called 60S ribosomal protein L30.

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

- Molecule 32 is a protein called 60S ribosomal protein L31-A.

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

- Molecule 33 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
33	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 34 is a protein called 60S ribosomal protein L33-A.

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

- Molecule 35 is a protein called 60S ribosomal protein L34-A.

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

- Molecule 36 is a protein called 60S ribosomal protein L35-A.

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

- Molecule 37 is a protein called 60S ribosomal protein L36-A.

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

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

- Molecule 38 is a protein called 60S ribosomal protein L37-A.

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

- Molecule 39 is a protein called 60S ribosomal protein L38.

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

- Molecule 40 is a protein called 60S ribosomal protein L39.

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

- Molecule 41 is a protein called Ubiquitin-60S ribosomal protein L40.

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

- Molecule 42 is a protein called 60S ribosomal protein L41-A.

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

- Molecule 43 is a protein called 60S ribosomal protein L42-A.

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

- Molecule 44 is a protein called 60S ribosomal protein L43-A.

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

- Molecule 45 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	2	1712	Total	C	N	O	P	0	0	0
			36488	16313	6466	11997	1712			
45	6	1739	Total	C	N	O	P	0	0	0
			37060	16570	6568	12183	1739			

- Molecule 46 is a protein called 40S ribosomal protein S0-A.

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

- Molecule 47 is a protein called 40S ribosomal protein S1-A.

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

- Molecule 48 is a protein called 40S ribosomal protein S2.

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

- Molecule 49 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
49	s3	223	Total	C	N	O	S	0	0	0
			1728	1098	310	314	6			

- Molecule 50 is a protein called 40S ribosomal protein S4-A.

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

- Molecule 51 is a protein called 40S ribosomal protein S5.

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

- Molecule 52 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	S6	226	Total	C	N	O	S	0	0	0
			1813	1137	350	323	3			
52	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 53 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	S7	184	Total	C	N	O		0	0	0
			1481	951	265	265				

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 54 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	S8	188	Total	C	N	O	S	0	0	0
			1489	925	298	264	2			
54	s8	186	Total	C	N	O	S	0	0	0
			1471	913	294	262	2			

- Molecule 55 is a protein called 40S ribosomal protein S9-A.

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

- Molecule 56 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	C0	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			
56	c0	96	Total	C	N	O	S	0	0	0
			761	490	125	144	2			

- Molecule 57 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	C1	155	Total	C	N	O	S	0	0	0
			1213	774	230	206	3			
57	c1	142	Total	C	N	O	S	0	0	0
			1138	729	217	189	3			

- Molecule 58 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	C2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			
58	c2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

- Molecule 59 is a protein called 40S ribosomal protein S13.

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

- Molecule 60 is a protein called 40S ribosomal protein S14-B.

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

- Molecule 61 is a protein called 40S ribosomal protein S15.

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

- Molecule 62 is a protein called 40S ribosomal protein S16-A.

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

- Molecule 63 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	C7	120	Total	C	N	O	S	0	0	0
			965	603	183	177	2			
63	c7	117	Total	C	N	O	S	0	0	0
			917	569	175	171	2			

- Molecule 64 is a protein called 40S ribosomal protein S18-A.

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

- Molecule 65 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 66 is a protein called 40S ribosomal protein S20.

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

- Molecule 67 is a protein called 40S ribosomal protein S21-A.

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

- Molecule 68 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 69 is a protein called 40S ribosomal protein S23-A.

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

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

- Molecule 70 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	D4	134	Total	C	N	O		0	0	0
			1073	676	208	189				
70	d4	133	Total	C	N	O		0	0	0
			1065	672	207	186				

- Molecule 71 is a protein called 40S ribosomal protein S25-A.

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

- Molecule 72 is a protein called 40S ribosomal protein S26-B.

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

- Molecule 73 is a protein called 40S ribosomal protein S27-A.

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

- Molecule 74 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 75 is a protein called 40S ribosomal protein S29-A.

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

- Molecule 76 is a protein called 40S ribosomal protein S30-A.

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

- Molecule 77 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
77	e1	72	Total	C	N	O	S	0	0	0
			575	368	108	95	4			

- Molecule 78 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

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

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SR	161	ALA	LYS	conflict	UNP P38011
sR	161	ALA	LYS	conflict	UNP P38011

- Molecule 79 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
79	SM	159	Total	C	N	O	0	0	0
			1104	652	221	231			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
79	sM	129	Total	C	N	O	0	0	0
			923	546	184	193			

- Molecule 80 is a protein called 60S ribosomal protein L12.

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

- Molecule 81 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	n4	135	Total	C	N	O	S	0	0	0
			1044	654	209	180	1			

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

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

- Molecule 83 is a protein called Ribosomal protein P1 alpha.

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

- Molecule 84 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	1	588	Total	Mg	0	0
			588	588		
84	3	19	Total	Mg	0	0
			19	19		
84	4	23	Total	Mg	0	0
			23	23		
84	L2	5	Total	Mg	0	0
			5	5		
84	L3	3	Total	Mg	0	0
			3	3		
84	L4	6	Total	Mg	0	0
			6	6		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	L5	1	Total 1	Mg 1	0	0
84	L7	1	Total 1	Mg 1	0	0
84	L8	1	Total 1	Mg 1	0	0
84	L9	1	Total 1	Mg 1	0	0
84	M0	4	Total 4	Mg 4	0	0
84	M3	5	Total 5	Mg 5	0	0
84	M5	5	Total 5	Mg 5	0	0
84	M6	1	Total 1	Mg 1	0	0
84	M7	5	Total 5	Mg 5	0	0
84	M8	1	Total 1	Mg 1	0	0
84	N0	4	Total 4	Mg 4	0	0
84	N1	2	Total 2	Mg 2	0	0
84	N3	4	Total 4	Mg 4	0	0
84	N4	1	Total 1	Mg 1	0	0
84	N5	1	Total 1	Mg 1	0	0
84	N8	3	Total 3	Mg 3	0	0
84	O2	4	Total 4	Mg 4	0	0
84	O3	1	Total 1	Mg 1	0	0
84	O4	3	Total 3	Mg 3	0	0
84	O6	1	Total 1	Mg 1	0	0
84	O7	3	Total 3	Mg 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	Q1	1	Total 1	Mg 1	0	0
84	Q2	4	Total 4	Mg 4	0	0
84	2	142	Total 142	Mg 142	0	0
84	S1	1	Total 1	Mg 1	0	0
84	S2	1	Total 1	Mg 1	0	0
84	S3	1	Total 1	Mg 1	0	0
84	S4	1	Total 1	Mg 1	0	0
84	C1	1	Total 1	Mg 1	0	0
84	C3	1	Total 1	Mg 1	0	0
84	C8	1	Total 1	Mg 1	0	0
84	D3	5	Total 5	Mg 5	0	0
84	5	750	Total 750	Mg 750	0	0
84	7	30	Total 30	Mg 30	0	0
84	8	20	Total 20	Mg 20	0	0
84	l2	5	Total 5	Mg 5	0	0
84	l3	11	Total 11	Mg 11	0	0
84	l4	2	Total 2	Mg 2	0	0
84	l5	6	Total 6	Mg 6	0	0
84	l6	2	Total 2	Mg 2	0	0
84	l7	3	Total 3	Mg 3	0	0
84	l8	1	Total 1	Mg 1	0	0

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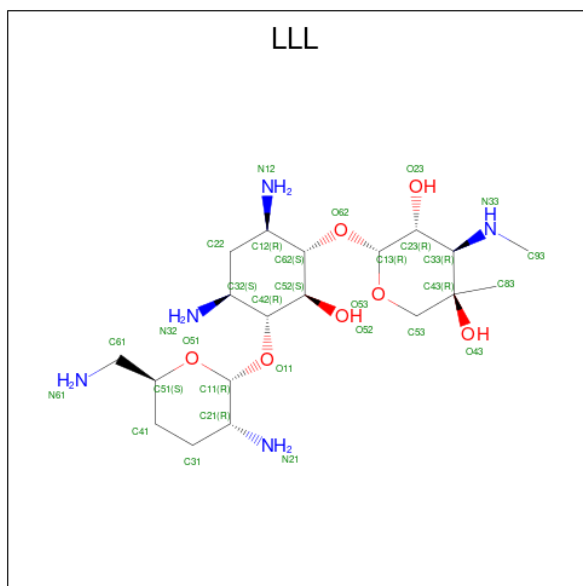
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	l9	8	Total 8	Mg 8	0	0
84	m0	2	Total 2	Mg 2	0	0
84	m3	4	Total 4	Mg 4	0	0
84	m4	6	Total 6	Mg 6	0	0
84	m5	3	Total 3	Mg 3	0	0
84	m6	8	Total 8	Mg 8	0	0
84	m7	7	Total 7	Mg 7	0	0
84	m8	4	Total 4	Mg 4	0	0
84	m9	2	Total 2	Mg 2	0	0
84	n0	7	Total 7	Mg 7	0	0
84	n1	2	Total 2	Mg 2	0	0
84	n3	2	Total 2	Mg 2	0	0
84	n5	3	Total 3	Mg 3	0	0
84	n8	3	Total 3	Mg 3	0	0
84	n9	1	Total 1	Mg 1	0	0
84	o1	1	Total 1	Mg 1	0	0
84	o2	3	Total 3	Mg 3	0	0
84	o3	2	Total 2	Mg 2	0	0
84	o4	2	Total 2	Mg 2	0	0
84	q0	1	Total 1	Mg 1	0	0
84	q1	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	q2	7	Total 7	Mg 7	0	0
84	q3	3	Total 3	Mg 3	0	0
84	6	263	Total 263	Mg 263	0	0
84	s0	1	Total 1	Mg 1	0	0
84	s2	2	Total 2	Mg 2	0	0
84	s3	1	Total 1	Mg 1	0	0
84	s4	1	Total 1	Mg 1	0	0
84	s5	3	Total 3	Mg 3	0	0
84	s6	1	Total 1	Mg 1	0	0
84	c1	1	Total 1	Mg 1	0	0
84	c3	6	Total 6	Mg 6	0	0
84	c4	1	Total 1	Mg 1	0	0
84	c8	3	Total 3	Mg 3	0	0
84	d1	2	Total 2	Mg 2	0	0
84	d2	1	Total 1	Mg 1	0	0
84	d3	5	Total 5	Mg 5	0	0
84	d5	1	Total 1	Mg 1	0	0
84	d6	3	Total 3	Mg 3	0	0
84	d7	1	Total 1	Mg 1	0	0
84	d9	1	Total 1	Mg 1	0	0
84	sR	1	Total 1	Mg 1	0	0

- Molecule 85 is (2R,3R,4R,5R)-2-((1S,2S,3R,4S,6R)-4,6-DIAMINO-3-((2R,3R,6S)-3-AMINO-6-(AMINOMETHYL)-TETRAHYDRO-2H-PYRAN-2-YLOXY)-2-HYDROXYCYCLOHEXYLOXY)-5-METHYL-4-(METHYLAMINO)-TETRAHYDRO-2H-PYRAN-3,5-DIOL (CCD ID: LLL) (formula: C₁₉H₃₉N₅O₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		
85	1	1	Total	C	N	O	0	0
			31	19	5	7		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
85	1	1	Total 31	C 19	N 5	O 7	0	0
85	1	1	Total 31	C 19	N 5	O 7	0	0
85	1	1	Total 31	C 19	N 5	O 7	0	0
85	1	1	Total 31	C 19	N 5	O 7	0	0
85	1	1	Total 31	C 19	N 5	O 7	0	0
85	3	1	Total 31	C 19	N 5	O 7	0	0
85	4	1	Total 31	C 19	N 5	O 7	0	0
85	L3	1	Total 31	C 19	N 5	O 7	0	0
85	2	1	Total 31	C 19	N 5	O 7	0	0
85	2	1	Total 31	C 19	N 5	O 7	0	0
85	2	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	5	1	Total 31	C 19	N 5	O 7	0	0
85	7	1	Total 31	C 19	N 5	O 7	0	0
85	7	1	Total 31	C 19	N 5	O 7	0	0
85	7	1	Total 31	C 19	N 5	O 7	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
85	8	1	Total	C	N	O	0	0
			31	19	5	7		
85	8	1	Total	C	N	O	0	0
			31	19	5	7		
85	13	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		
85	6	1	Total	C	N	O	0	0
			31	19	5	7		

- Molecule 86 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	O4	1	Total	Zn	0	0
			1	1		
86	O7	1	Total	Zn	0	0
			1	1		
86	Q0	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	Q2	1	Total 1	Zn 1	0	0
86	Q3	1	Total 1	Zn 1	0	0
86	D6	1	Total 1	Zn 1	0	0
86	D7	1	Total 1	Zn 1	0	0
86	D9	1	Total 1	Zn 1	0	0
86	E1	1	Total 1	Zn 1	0	0
86	o4	1	Total 1	Zn 1	0	0
86	o7	1	Total 1	Zn 1	0	0
86	q0	1	Total 1	Zn 1	0	0
86	q2	1	Total 1	Zn 1	0	0
86	q3	1	Total 1	Zn 1	0	0
86	d6	1	Total 1	Zn 1	0	0
86	d7	1	Total 1	Zn 1	0	0
86	d9	1	Total 1	Zn 1	0	0
86	e1	1	Total 1	Zn 1	0	0

- Molecule 87 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	1	473	Total 473	O 473	0	0
87	3	15	Total 15	O 15	0	0
87	4	5	Total 5	O 5	0	0
87	L2	1	Total 1	O 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	L3	7	Total 7	O 7	0	0
87	L4	2	Total 2	O 2	0	0
87	L5	2	Total 2	O 2	0	0
87	M0	1	Total 1	O 1	0	0
87	M3	2	Total 2	O 2	0	0
87	M5	3	Total 3	O 3	0	0
87	M6	6	Total 6	O 6	0	0
87	M7	5	Total 5	O 5	0	0
87	N0	4	Total 4	O 4	0	0
87	N1	3	Total 3	O 3	0	0
87	N3	5	Total 5	O 5	0	0
87	N4	2	Total 2	O 2	0	0
87	N5	2	Total 2	O 2	0	0
87	N8	3	Total 3	O 3	0	0
87	N9	2	Total 2	O 2	0	0
87	O2	2	Total 2	O 2	0	0
87	O4	1	Total 1	O 1	0	0
87	O7	1	Total 1	O 1	0	0
87	Q1	1	Total 1	O 1	0	0
87	Q2	1	Total 1	O 1	0	0
87	2	111	Total 111	O 111	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	S1	1	Total 1	O 1	0	0
87	S3	3	Total 3	O 3	0	0
87	S4	1	Total 1	O 1	0	0
87	S8	1	Total 1	O 1	0	0
87	C9	2	Total 2	O 2	0	0
87	D0	1	Total 1	O 1	0	0
87	D3	1	Total 1	O 1	0	0
87	SR	2	Total 2	O 2	0	0
87	5	514	Total 514	O 514	0	0
87	7	33	Total 33	O 33	0	0
87	8	11	Total 11	O 11	0	0
87	l2	7	Total 7	O 7	0	0
87	l3	6	Total 6	O 6	0	0
87	l5	5	Total 5	O 5	0	0
87	l9	3	Total 3	O 3	0	0
87	m0	1	Total 1	O 1	0	0
87	m4	1	Total 1	O 1	0	0
87	m5	2	Total 2	O 2	0	0
87	m6	8	Total 8	O 8	0	0
87	m7	4	Total 4	O 4	0	0
87	m9	3	Total 3	O 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	n0	4	Total 4	O 4	0	0
87	n1	2	Total 2	O 2	0	0
87	n3	2	Total 2	O 2	0	0
87	n4	1	Total 1	O 1	0	0
87	n5	2	Total 2	O 2	0	0
87	n6	1	Total 1	O 1	0	0
87	n8	4	Total 4	O 4	0	0
87	n9	1	Total 1	O 1	0	0
87	o0	1	Total 1	O 1	0	0
87	o1	2	Total 2	O 2	0	0
87	o2	4	Total 4	O 4	0	0
87	o4	2	Total 2	O 2	0	0
87	q0	1	Total 1	O 1	0	0
87	q2	2	Total 2	O 2	0	0
87	q3	3	Total 3	O 3	0	0
87	6	224	Total 224	O 224	0	0
87	s4	1	Total 1	O 1	0	0
87	s5	1	Total 1	O 1	0	0
87	s7	1	Total 1	O 1	0	0
87	c3	5	Total 5	O 5	0	0
87	c6	1	Total 1	O 1	0	0

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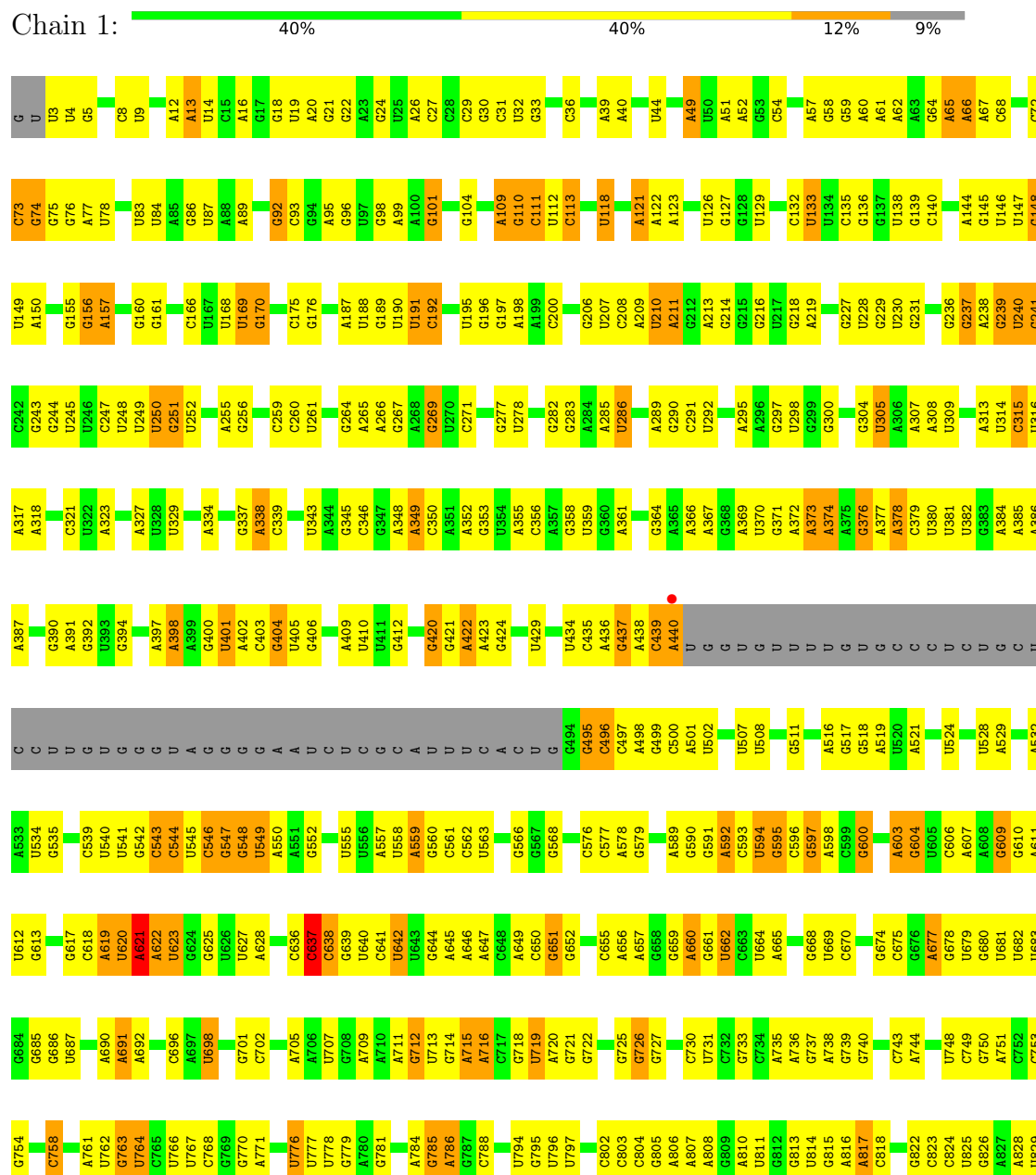
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	c8	3	Total 3	O 3	0	0
87	c9	5	Total 5	O 5	0	0
87	d3	5	Total 5	O 5	0	0
87	d5	3	Total 3	O 3	0	0
87	d6	3	Total 3	O 3	0	0
87	d9	2	Total 2	O 2	0	0
87	e1	1	Total 1	O 1	0	0
87	sR	1	Total 1	O 1	0	0

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: 25S ribosomal RNA



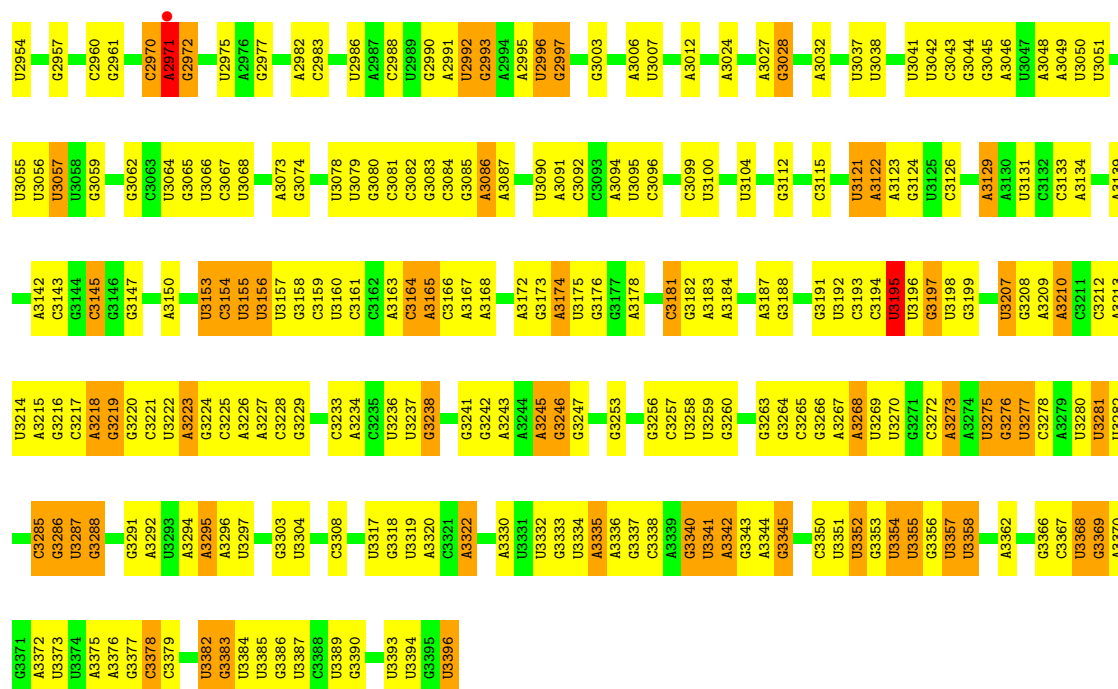
C1923	G1829	G1753	G1666	A1589	G1510	U1436	C1358	A1287	C1227	G1155	U1071	G993	A915	A830
C1926	G1833	G1754	A1667	G1590	U1511	C1437	C1359	U1288	C1228	C1156	G1072	G994	G916	G831
G1927	G1837	G1758	G1668	G1591	G1514	U1438	C1360	G1289	G1229	A1159	U1073	A998	C918	G832
G1940	U1835	A1760	C1669	A1593	C1516	G1440	U1361	C1292	G1230	C1160	A1080	A988	A920	A837
G1948	C1836	C1761	A1679	U1595	G1517	G1444	A1366	U1294	A1231	G1161	U1079	C1000	A921	G838
G1949	U1837	C1762	G1680	C1596	U1522	G1445	G1367	G1296	G	U1162	U1081	G1001	A922	C839
U1950	G1838	U1763	U1681	U1597	U1523	A1446	A1368	C1297	G	A1163	U1082	A1002	U922	C840
C1951	U1839	U1764	U1682	A1602	A1524	G1447	A1369	C1298	U	G1164	U1083	G1003	G923	A841
G1952	U1840	U1765	A1683	A1603	G1525	G1448	A1373	C1298	G	A1165	A1084	U1004	G924	G842
G1953	A1841	G1766	U1686	G1604	U1526	A1449	A1373	A1301	C	U1167	C1086	G1005	A925	A843
G1954	C1842	G1770	U1687	A1605	C1527	G1450	A1377	A1302	C	U1168	G1087	A1009	C927	A847
U	C1843	C1771	U1688	U1607	G1536	C1451	G1377	A1303	A	A1169	A1087	G1010	C928	A848
A	G1844	U1772	U1689	C1508	G1537	A1452	A1381	A1304	U	U1170	U1093	A1011	A929	C849
G	C1846	C1773	G1693	G1611	G1538	A1453	A1382	U1305	G	U1094	U1095	G1012	U930	G853
U	U1847	G1780	G1693	A1612	A1545	A1454	A1381	G1306	A	G1176	U1096	U1015	G934	G857
G	C1848	C1781	G1700	A1613	A1546	A1455	A1382	U1307	A	U1177	U1097	C1016	U935	G860
A	C1849	U1782	C1701	C1614	A1547	A1456	A1383	G1308	G	G1178	A1098	C1017	A936	C861
G	G1850	U1783	U1702	C1615	A1547	A1460	U1384	U1309	U	U1179	A1099	G1019	G937	G862
G	C1856	G1784	U1703	U1616	A1546	A1460	A1386	G1313	C	U1180	U1100	G1020	U938	C863
C	C1857	U1785	C1709	G1617	A1547	A1465	G1389	U1314	G	A1182	A1103	G1021	U943	G864
C	A1858	A1787	C1710	G1618	G1547	A1466	C1391	U1315	A	A1183	G1104	G1024	C945	U865
U	G1863	C1788	C1710	A1619	U1554	A1467	G1392	U1317	A	A1184	C1107	A1025	U946	A866
G	A1864	U1795	A1715	U1620	U1555	U1470	A1393	U1318	U	G1185	U1108	A1026	G947	U874
G	C1865	C1791	A1716	A1621	C1556	U1471	A1394	G1319	C	U1186	U1109	A1027	U875	C871
U	A1866	U1717	U1717	U1558	A1557	U1472	G1395	C1320	G	C1189	U1110	G1029	G950	U879
C	G1718	G1718	G1718	G1624	A1559	G1473	C1396	C1323	U	U1190	U1111	A1030	G953	U879
A	G1793	C1793	G1718	G1624	A1559	G1473	C1396	U1323	U	U1191	U1111	A1030	G953	U879
C	G1794	C1794	G1718	G1624	A1559	G1473	C1396	U1323	U	U1191	U1111	A1030	G953	U879
G	U1795	U1795	U1721	U1629	G1560	A1477	U1398	U1324	A	C1192	U1114	U1034	U954	A883
G	C1870	U1796	U1722	U1630	G1561	A1478	A1399	U1325	A	U1115	G1115	G1035	U955	A884
A	A1871	C1796	U1723	C1631	C1562	U1479	G1400	A1326	G	A1195	G1116	A1036	C957	A884
C	G1875	A1797	U1724	A1632	U1564	G1480	A1401	C1327	G	G1117	G1117	A1037	C957	A884
C	U1876	U1798	U1725	A1633	G1565	A1481	A1401	C1328	A	G1118	G1118	C1037	C958	G887
G	U1877	A1800	C1726	C1633	A1566	A1482	A1407	U1329	G	C1119	C1119	C1038	C959	A888
A	G1878	C1804	C1727	U1636	A1567	G1483	G1408	U1330	U	U1201	A1120	U1039	U960	U889
G	U1879	C1805	G1728	A1637	U1568	U1484	G1414	A1331	G	A1202	U1201	A1040	C961	C890
C	U1880	U1799	A1729	C1638	U1569	G1485	G1415	A1332	U	A1203	U1228	C1043	G962	C893
G	G1886	A1806	G1730	U1639	U1570	G1488	C1416	A1333	G	A1204	A1129	C1044	G963	G894
C	A1887	G1807	G1733	G1640	U1572	G1488	G1417	C1335	U	A1205	A1130	C1045	G964	A895
G	U1888	C1808	G1734	U1642	U1573	G1492	A1418	U1336	A	G1209	G1131	A1046	A965	A896
C	G1892	A1813	G1735	A1643	C1574	U1493	A1419	A1337	C	U1210	C1132	A1047	U966	
U	A1893	C1814	G1736	C1644	A1575	U1494	C1420	C1338	A	U1211	A1133	A1048	G974	U899
C	U1894	U1815	U1739	U1645	U1576	U1495	G1421	G1345	A	A1212	A1136	C1049	C975	G900
U	A1895	U1816	G1740	U1652	G1577	G1496	G1422	G1345	C	G1213	C1137	U1050	G901	G901
U	U1896	C1817	A1741	G1652	C1578	C1497	C1423	U1348	U	C1216	U1138	A1057	U905	U905
G	G1906	U1818	U1742	G1653	C1579	A1498	U1427	G1349	A	A1217	C1146	A1062	A906	A906
U	A1907	A1819	G1743	A1654	U1580	C1499	A1428	A1350	C	U1218	G1147	A1063	U979	G907
G	U1909	U1820	U1743	G1655	C1582	G1500	G1429	U1351	C	C1219	A1064	G1063	U979	G908
A	A1910	U1821	U1746	A1656	U1583	A1504	U1430	A1352	G	G1220	G1148	A1065	U981	G909
C	U1912	C1822	G1747	C1657	U1584	C1505	G1431	U1353	A	A1221	A1065	A1065	C982	G910
U	U1916	A1823	G1750	U1658	C1585	A1506	G1432	G1354	C	U1222	U1151	G1066	U986	C911
G	U1916	U1824	A1750	U1659	G1586	A1507	A1433	A1355	A	G1223	G1152	C1069	U987	G912
C	A1922	G1825	G1751	G1661	U1587	C1508	A1434	U1356	C	A1153	A1153	U1070	U987	A913
U		C1826	A1752	G1662	A1588	A1509	A1435	G1357	A	G1226	A1154			A914

U3078	G2885	G2895	G2814	C2737	G2663	C2582	G2512	G	G2374	G2268	A2214	U2137	G	U
U3079	U2966	A2896	G2815	A2736	C2664	C2583	U2513	U	G2375	U2289	G	A2138	G	G
G3080	A2987	G2897	G2816	U2665	U2666	G2584	G2514	G	G2376	G2290	G	A2139	U	U
C3081	G2988	G2817	A2817	C2666	U2667	G2585	A2515	U	G2377	A2219	U	C2219	C	G
C3082	U2989	C2899	U2818	A2667	U2668	U2586	U2379	A	C2378	G2220	U	U2140	U	G
	G2990	U2819	A2819	U2744	U2668	U2587	G	G	U2379	G2221	C	U2141	C	G
	A2991	G2745		G2745			U2521	A	G	G2221	U	U2142	U	G
A3086	U2992	A2746	G2824	G2746	G2672	G2592	G2522	A	G2385	A2222	U	A2143	U	G
U3090	G2912	A2747	G2825	A2747	A2673	G2593	A2523	U	A2386	A2223	U	A2144	U	G
A3091	C2913	U2748	U2826	A2674	U2675	G2594	G2525	A	A2387	U2225	G	G2150	U	C
C3092	G2914	G2749	U2827	C2675	C2676	C2594	G2526	A	U2388	U2226	U	C2151	U	U
C3093	U2915	U2828	G2828	A2676	G2677	G2602	G2527	G	C2389	G2227	G	A2152	A	G
A3094	U3000	U2829	C3093	U2752		G2605	G2528	U	A2390	A2228	A	U2153	C	C
U3095	C3001	G2830		G2753		G2606		G	G2391	A2229	C	U2154	U	U
C3096	C3002					G2607		G	G2392	C2230	C	G2155	C	C
	A3008	U2923	C2836	C2756	U2681	G2608	U2532	G	G2393	G2231	G	G2156	U	U
U3100	U2924	U2924	G2839	U2759	U2682	U2533	G2534	A	G2396	A2232	U	U2159	U	G
G3101	C2927	C2927		C2760	C2684	U2537	A2535	G	A2397	A2233	C	A2168	C	C
G3102	C3012	C2928	U2842	G2761		U2538	U2536	C	G2399	G2234	U	A2169	U	U
A3106	U3014	A2930	U2845	U2762	U2688	G2612	U2541	U	G2400	U2310	C	A2184	C	A
U3107	G3015	C2931	U2846	U2763	A2689	U2613	C2539	C	A2401	G2312	U	A2167	U	G
	C3018	U2932	A2847	U2766	G2690	G2615	U2541	C	A2402	A2313	G	A2168	G	C
U3111	U3019	A2933	G2848	U2767	A2691	U2616	U2542	G	G2403	U2314	C	G2170	U	G
G3112	U3020	A2934	U2849	U2768	A2694	G2617	U2543	G	A2404	G2315	A	G2171	A	A
A3113	A3114	U2935	U2850	A2769	A2696	G2619	C2545	C	C2406	U2328	C	G2174	C	C
C3115	C3024	C2852	A2851	U2771	G2697	G2621	G2546	C	U2408	C2329	A	G2177	A	A
C3117	C3025	A2853	U2854	C2772	G2698	G2622	A2547	G	U2411	U2334	U	A2178	U	U
	A3029	C2942	U2854	C2773		G2623	G2548	U	G2412	U2336	G	C2179	A	U
C3120	G3030	C2943	C2857	G2774	A2702	G2624	G2549	G	C2415	C2337	A	A2093	U	G
U3121	U3037	G2945	U2860	C2776	A2705	U2629	U2550	A	G2418	A2254	U	G2094	U	C
A3122	U3038	C2946	U2861	C2777	A2706	U2630	U2551	A	G2419	A2255	U	G2095	U	C
	C3039	C2947	U2862	G2778	G2706	U2631	U2552	A	G2418	A2256	U	G2187	U	G
G3128	A3040	C2948	U2862	G2778	C2707	U2632	U2553	U	U2419	C2257	U	A2188	C	U
A3129	U3041	U2955	C2867	U2783	C2708	U2633	G2555	C	A2424	A2259	U	C2101	C	C
A3130	U3042	A2956	U2868	G2784	C2709	U2634	C2556	C	G2425	U2260	U	U2102	U	C
C3132	C3043	G2957	U2869	G2787	C2710	A2635	A2557	C	U2426	G2261	U	A2107	U	U
C3133	G3044	C2957	C2870	C2788	U2712	A2636	U2558	C	U2427	A2262	U	C2192	U	G
A3134	G3045	C2960	G2871	U2789	U2713	C2638	C2560	U	U2434	A2271	U	G2199	G	G
U3135	A3046	G2961	A2872	U2790	G2714		A2561	C	A2441	G2272	A	U2200	A	A
G3136	U3047	U2962	U2873	G2796	G2715	U2641	A2562	C	G2435	G2273	U	G2201	C	C
C3137	A3048	U2965	U2874	G2799	U2716	A2642	A2563	C	U2436	U2268	U	C2195	U	U
U3138	U3054	A2967	G2875	G2800	U2719	A2643		U	G2437	U2269	U	C2196	G	G
A3142	U3055	G2968	C2876	A2801	G2720	C2644	C2567	U	U2440	A2270	A	A2198	A	U
C3143	U3056	A2969	U2880	A2802	U2723	G2651	U2569	A	G2441	G2273	U	G2116	A	A
G3147	U3057	C2970	C2861	A2803	U2724	U2652	U2570	U	G2442	A2279	U	C2202	C	C
U3151	U3058	A2971	U2882	A2804	U2725	U2653	G2571	G	A2443	A2280	U	U2203	G	G
U3152	G3059	G2972	U2883	G2805	G2726	U2654	G2572	U	A	A2281	U	C2204	C	C
U3153	C3063	G2973	C2884	A2806	G2727	U2655	G2573	U	U	A2282	U	U2205	U	U
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			C2893	A2812	U2736	G2661	U2581	G	G	A2131	U	A2125	G	G
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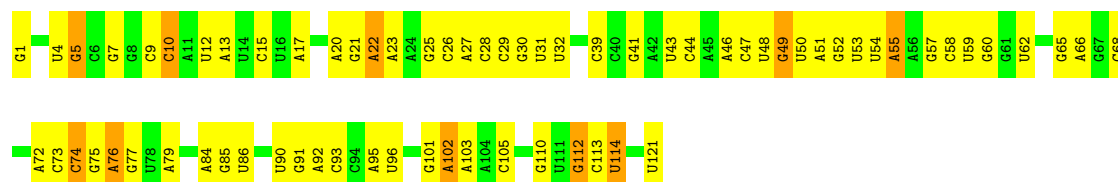


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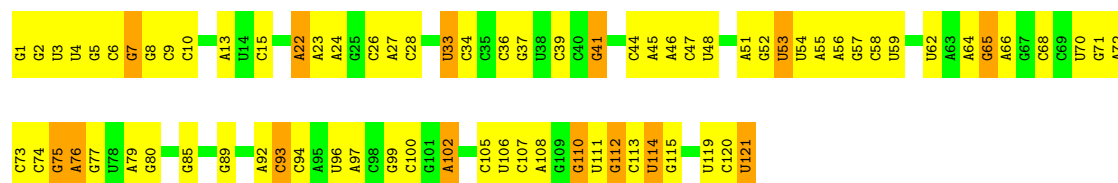




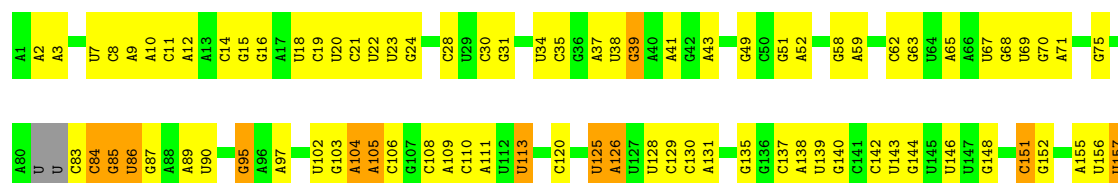
• Molecule 2: 5S Ribosomal RNA



• Molecule 2: 5S Ribosomal RNA

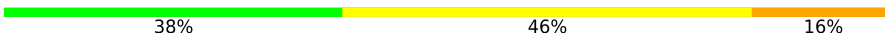
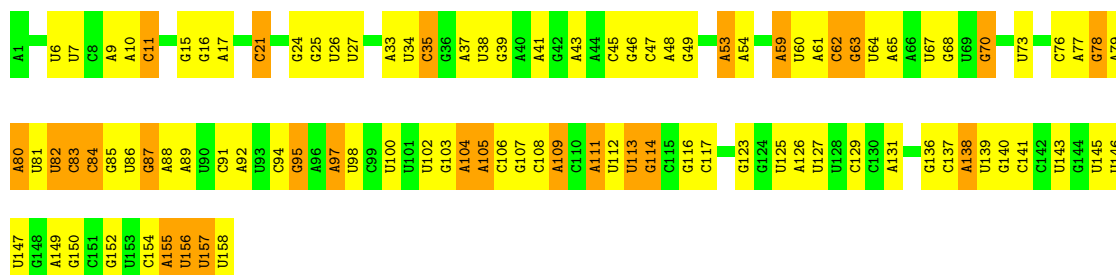


• Molecule 3: 5.8S ribosomal RNA

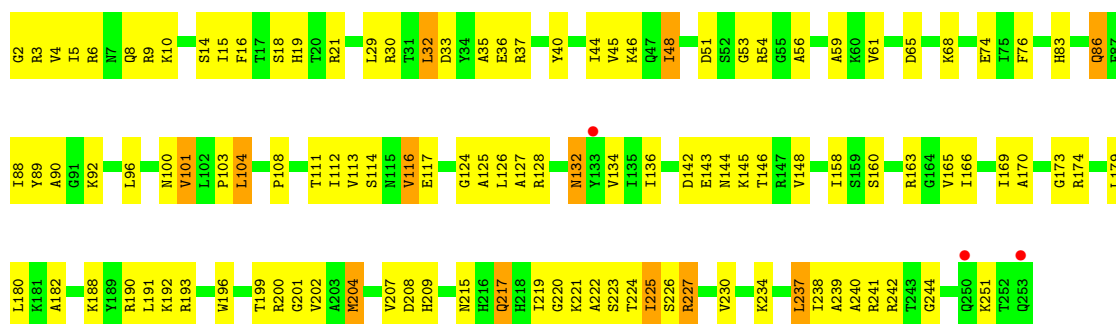


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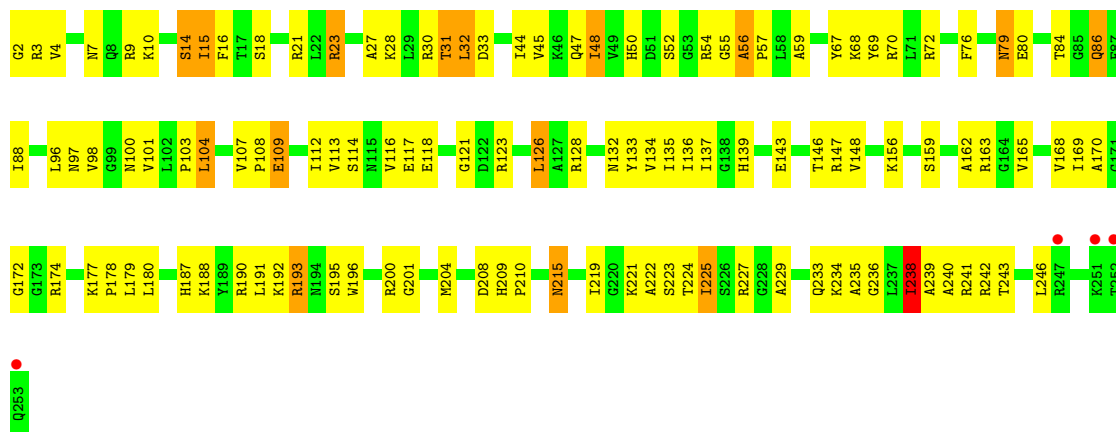
- Molecule 3: 5.8S ribosomal RNA

Chain 8:  38% 46% 16%

- Molecule 4: 60S ribosomal protein L2-A

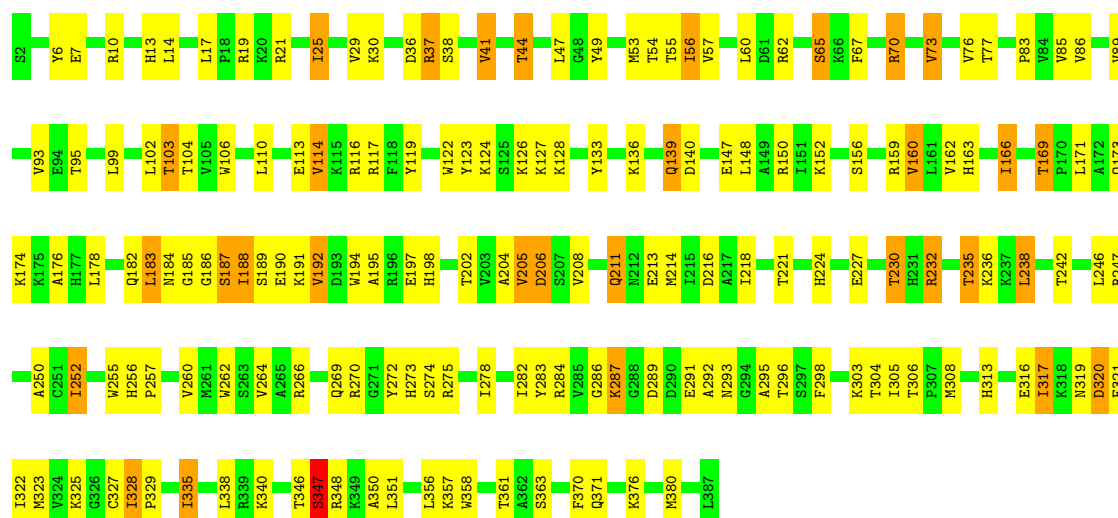
Chain L2:  54% 41% 5%

- Molecule 4: 60S ribosomal protein L2-A

Chain l2:  53% 41% 6%

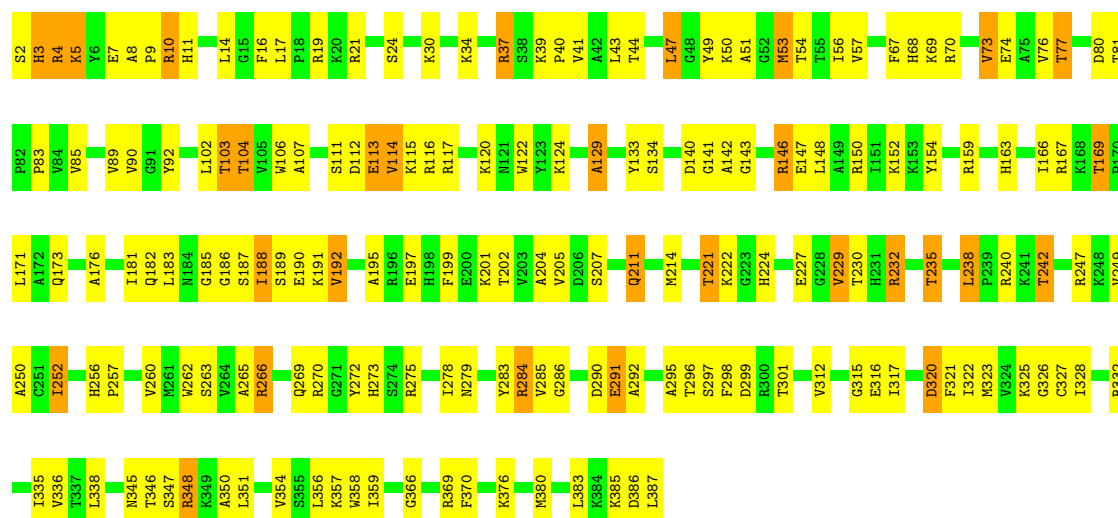
- Molecule 5: 60S ribosomal protein L3

Chain L3:  55% 36% 8%



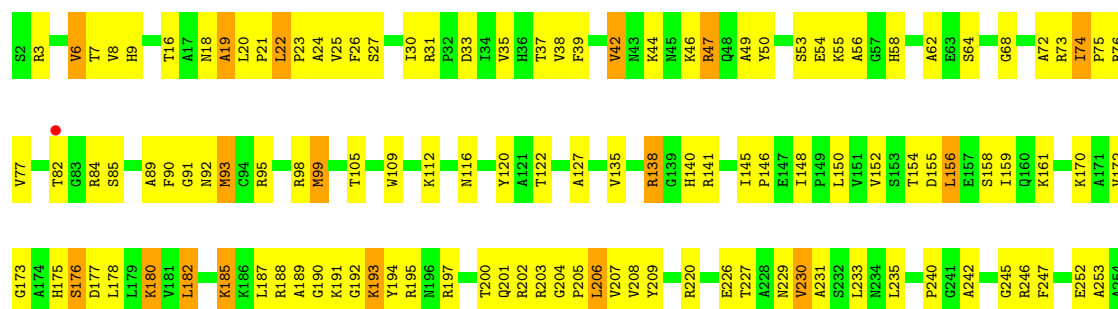
• Molecule 5: 60S ribosomal protein L3

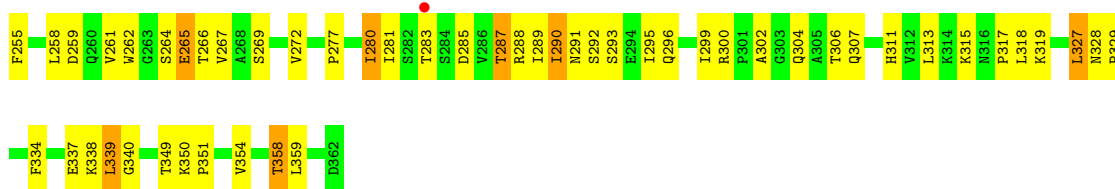
Chain 13: 53% 39% 8%



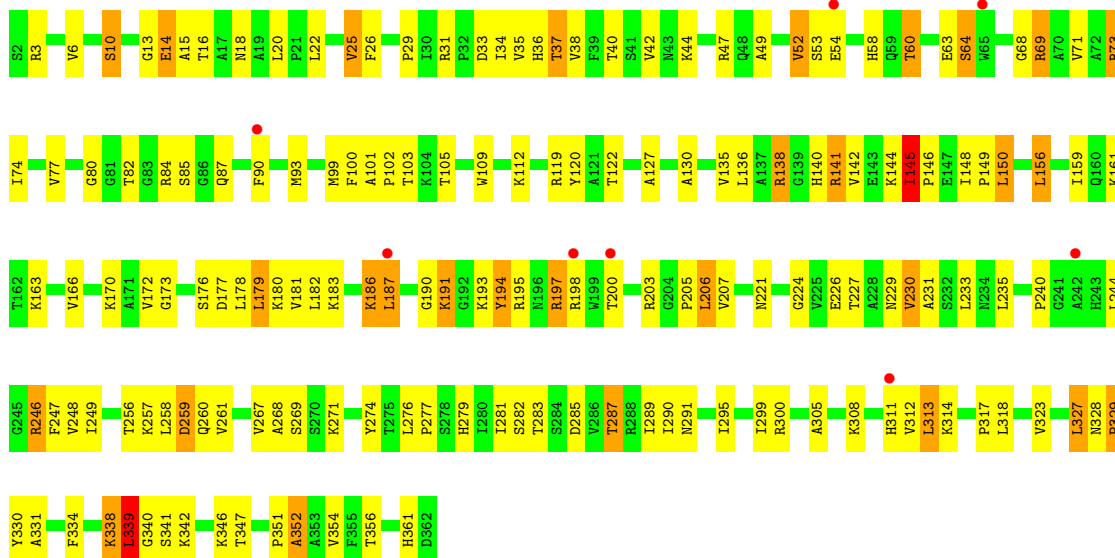
• Molecule 6: 60S ribosomal protein L4-A

Chain L4: 52% 41% 7%

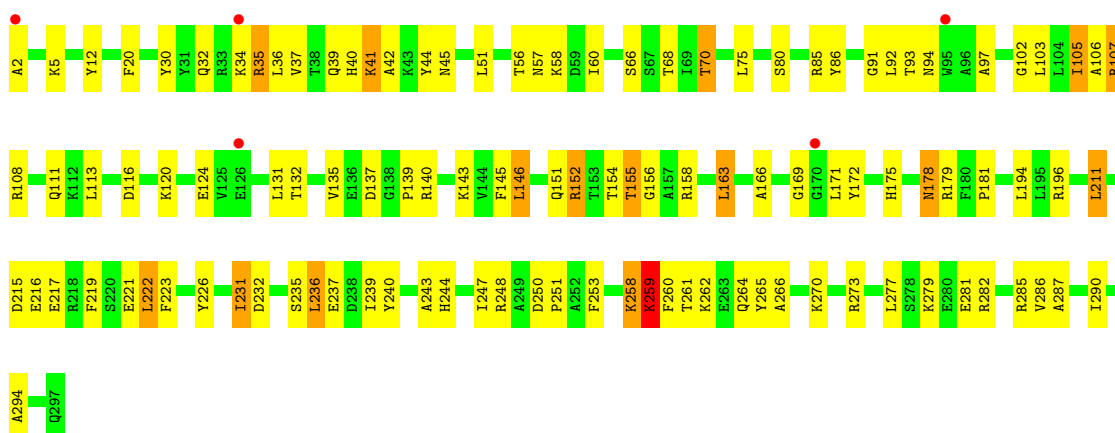




• Molecule 6: 60S ribosomal protein L4-A

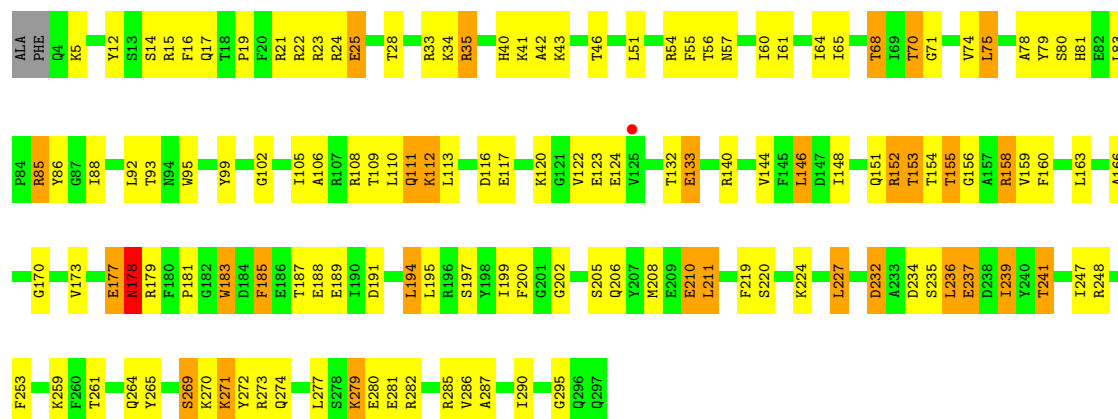


• Molecule 7: 60S ribosomal protein L5

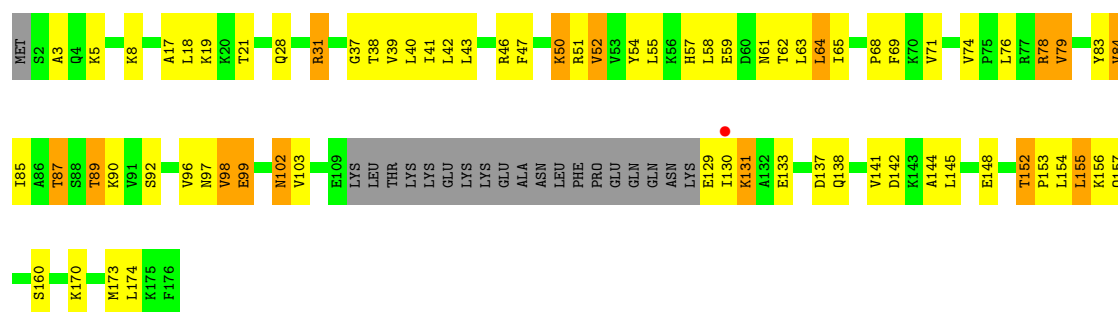


• Molecule 7: 60S ribosomal protein L5

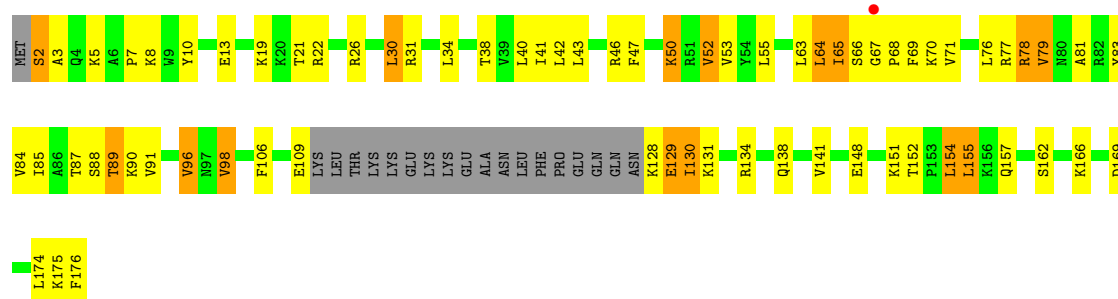




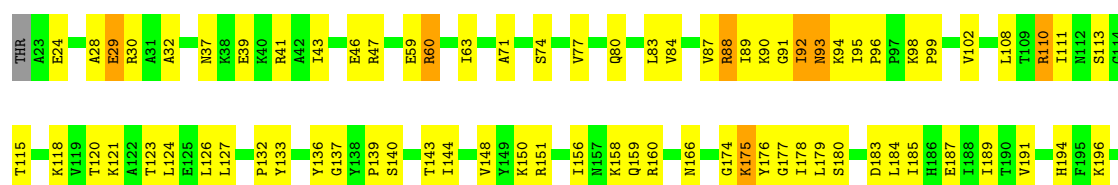
• Molecule 8: 60S ribosomal protein L6-A



• Molecule 8: 60S ribosomal protein L6-A



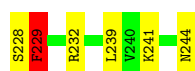
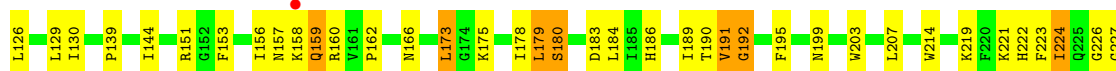
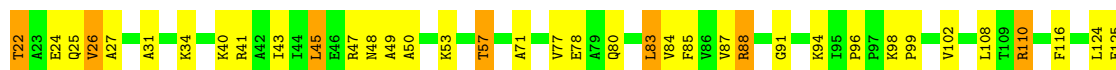
• Molecule 9: 60S ribosomal protein L7-A





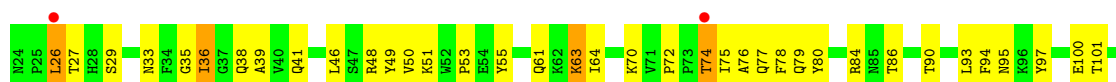
• Molecule 9: 60S ribosomal protein L7-A

Chain 17: 64% 30% 6%



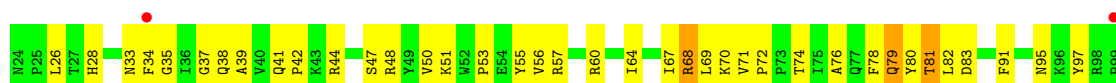
• Molecule 10: 60S ribosomal protein L8-A

Chain L8: 3% 58% 37% 5%



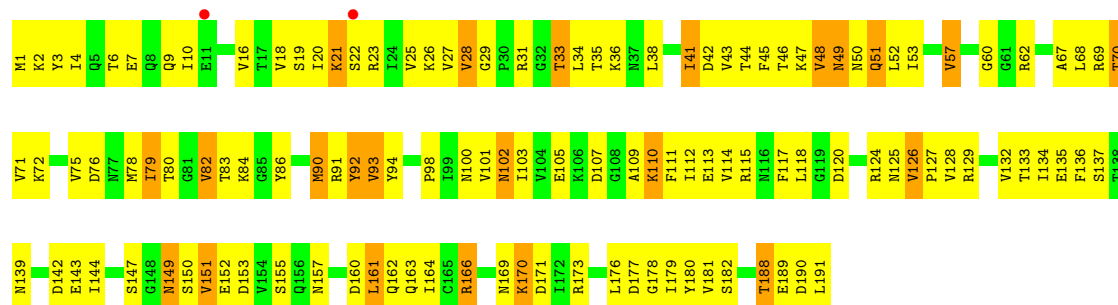
• Molecule 10: 60S ribosomal protein L8-A

Chain l8: 3% 54% 41% 2%

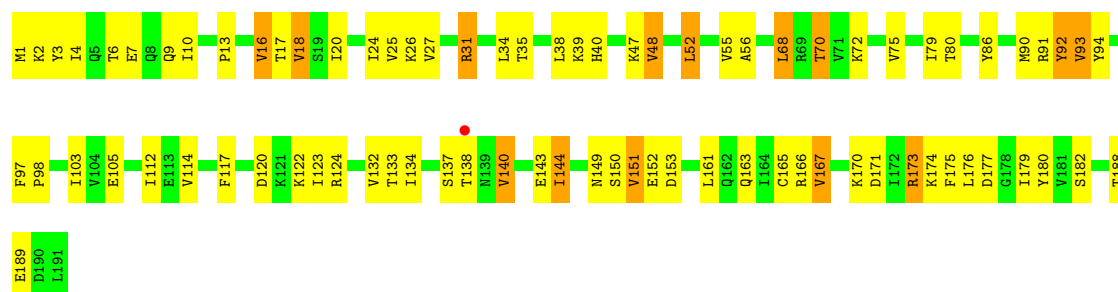


• Molecule 11: 60S ribosomal protein L9-A

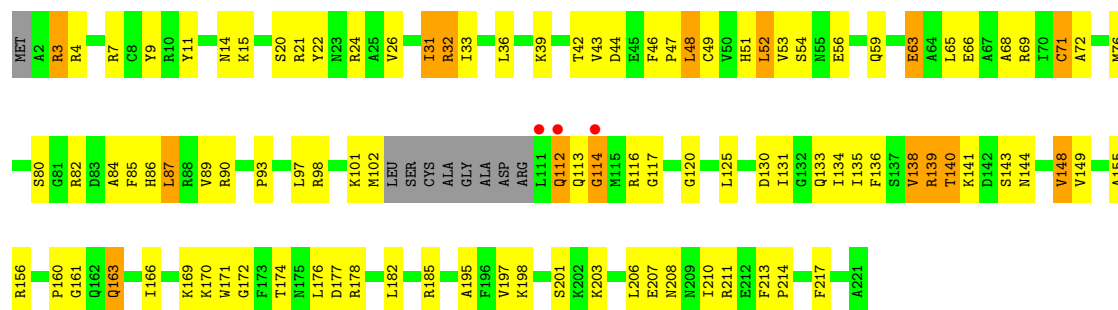
Chain L9: 35% 53% 12%



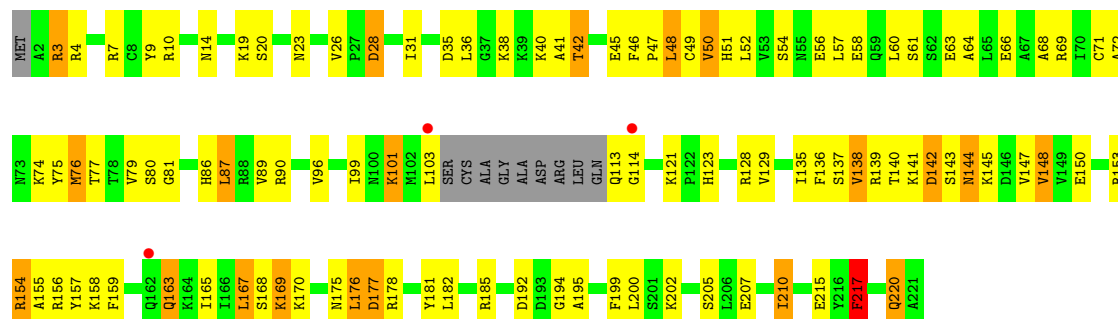
- Molecule 11: 60S ribosomal protein L9-A



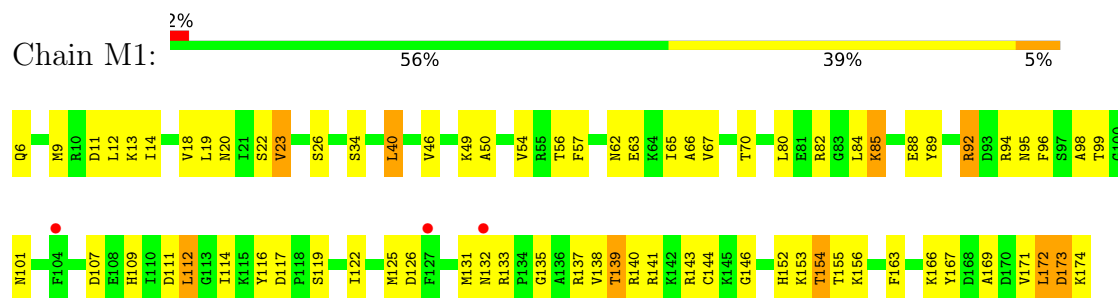
- Molecule 12: 60S ribosomal protein L10



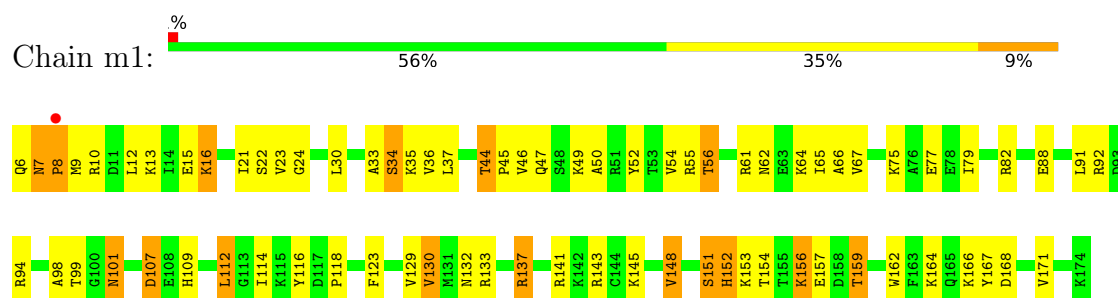
- Molecule 12: 60S ribosomal protein L10



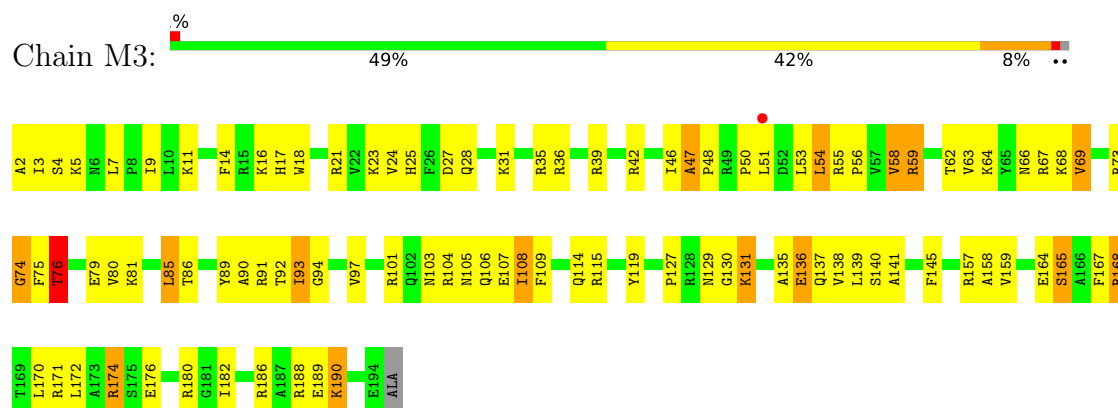
- Molecule 13: 60S ribosomal protein L11-B



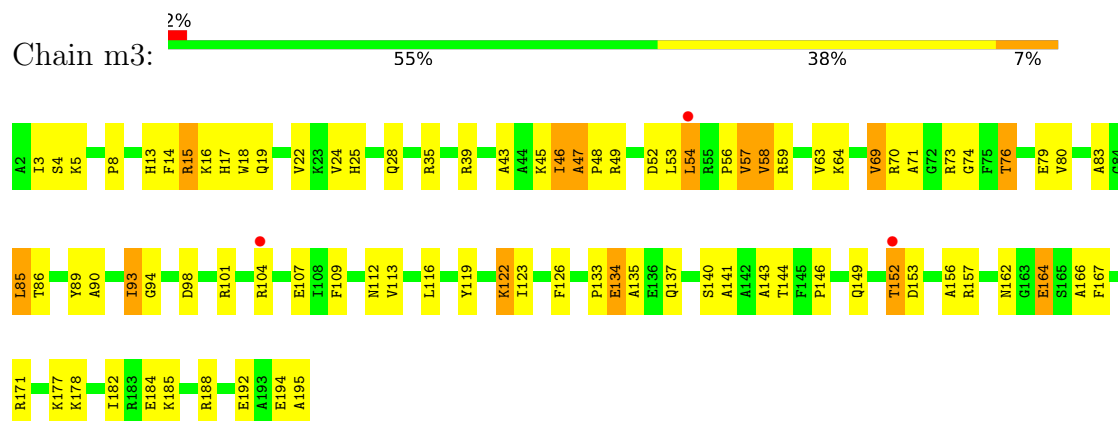
- Molecule 13: 60S ribosomal protein L11-B



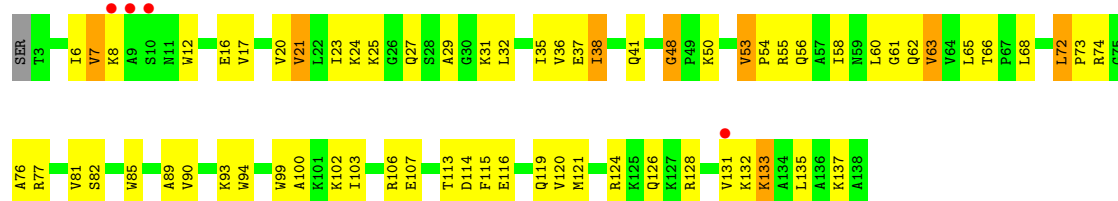
- Molecule 14: 60S ribosomal protein L13-A



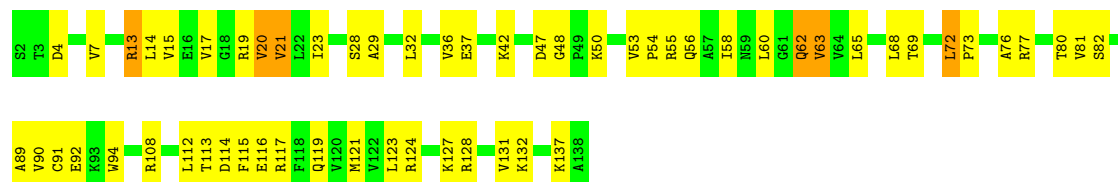
- Molecule 14: 60S ribosomal protein L13-A



- Molecule 15: 60S ribosomal protein L14-A



- Molecule 15: 60S ribosomal protein L14-A



- Molecule 16: 60S ribosomal protein L15-A

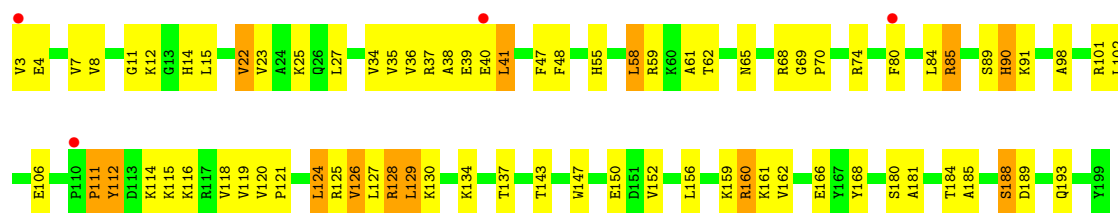


- Molecule 16: 60S ribosomal protein L15-A

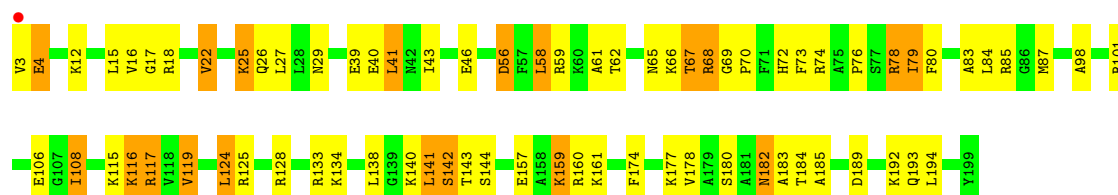


- Molecule 17: 60S ribosomal protein L16-A

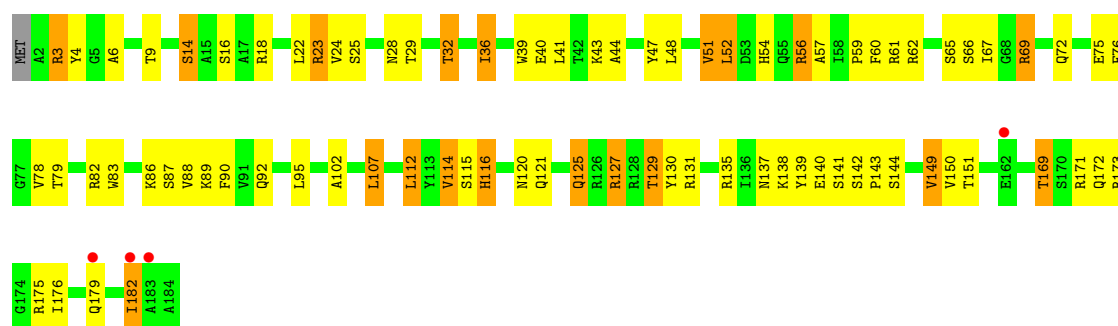




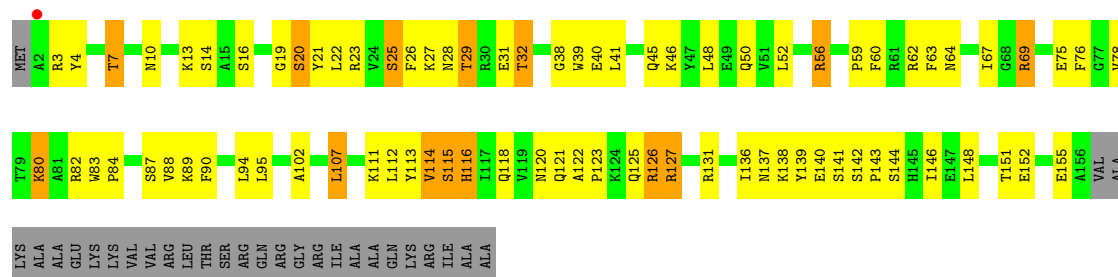
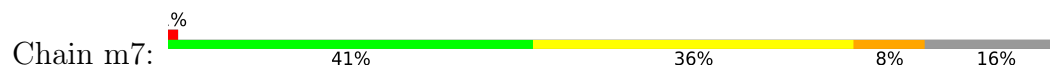
• Molecule 17: 60S ribosomal protein L16-A



• Molecule 18: 60S ribosomal protein L17-A

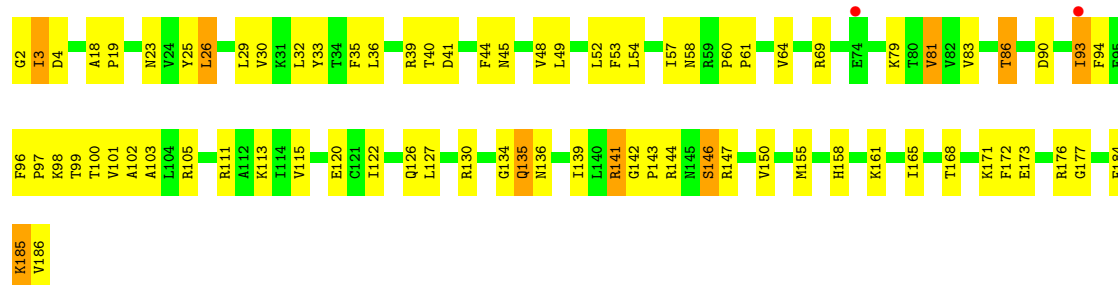


• Molecule 18: 60S ribosomal protein L17-A

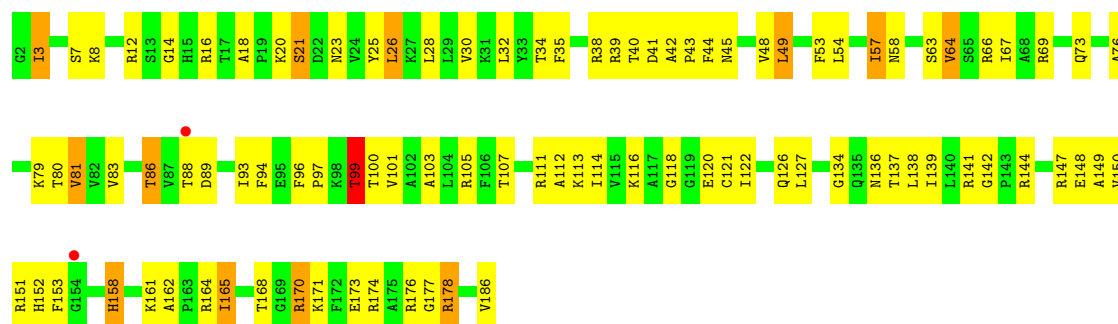


• Molecule 19: 60S ribosomal protein L18-A

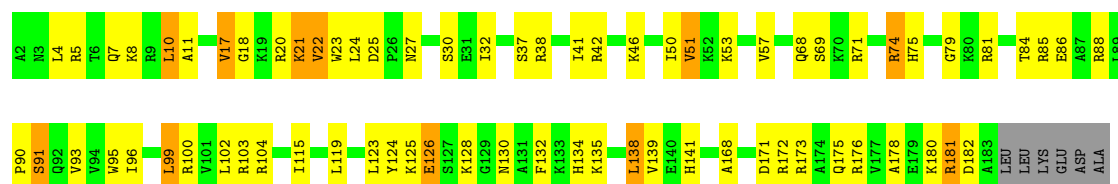




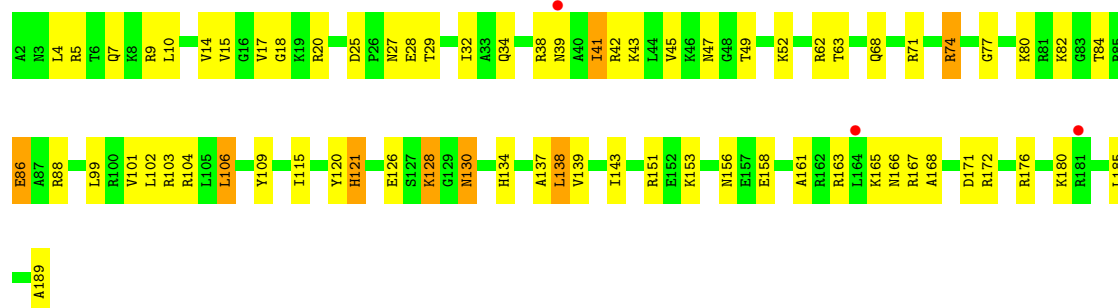
- Molecule 19: 60S ribosomal protein L18-A



- Molecule 20: 60S ribosomal protein L19-A

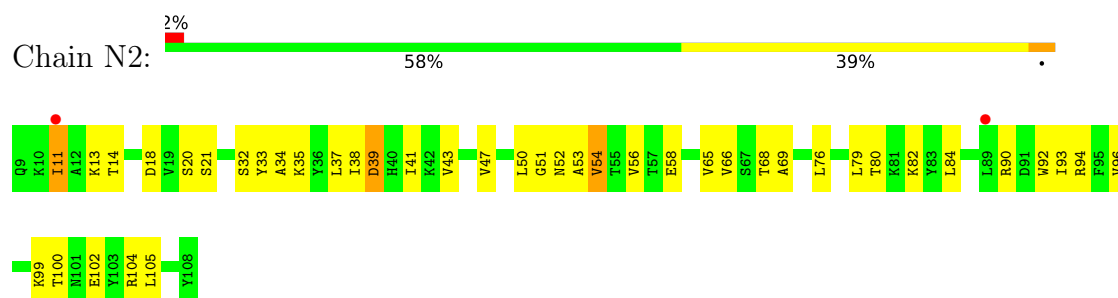


- Molecule 20: 60S ribosomal protein L19-A

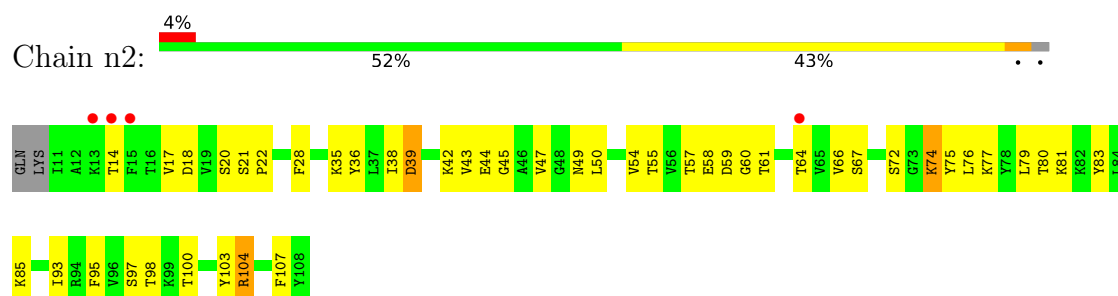


- Molecule 21: 60S ribosomal protein L20-A

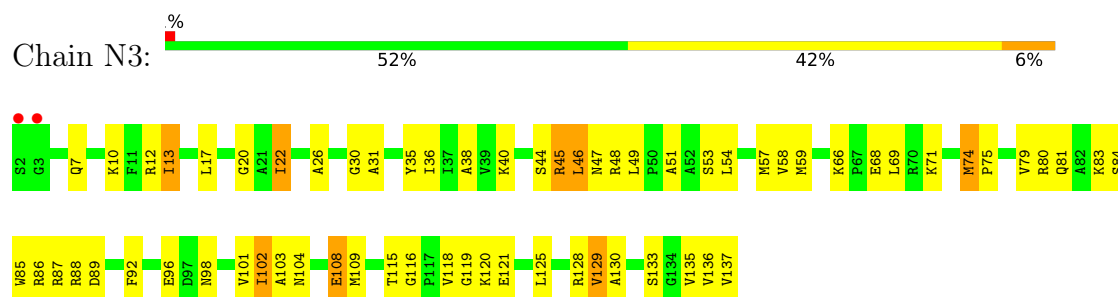
- Molecule 23: 60S ribosomal protein L22-A



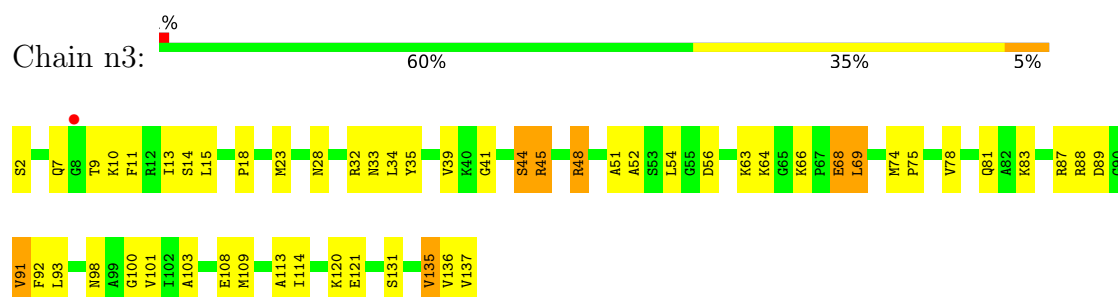
- Molecule 23: 60S ribosomal protein L22-A



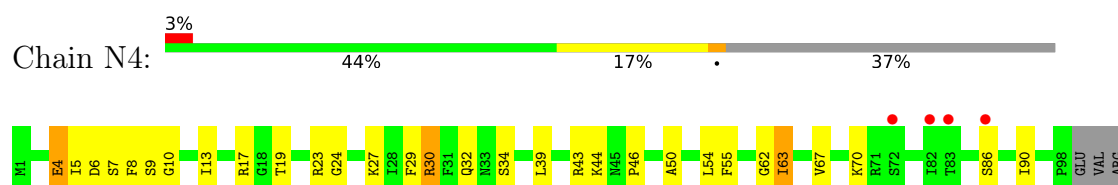
- Molecule 24: 60S ribosomal protein L23-A



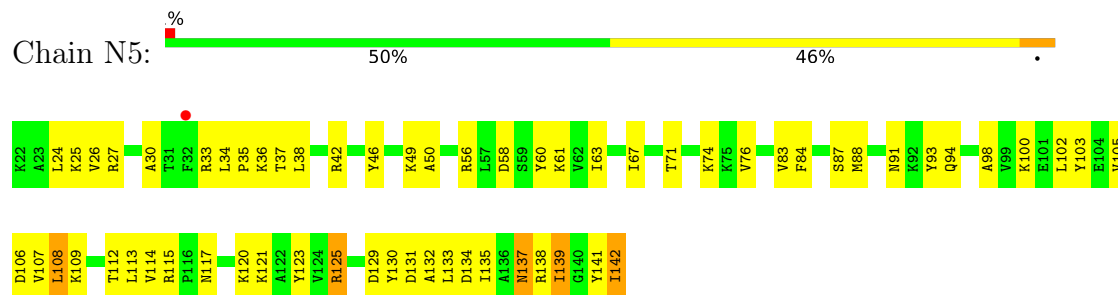
- Molecule 24: 60S ribosomal protein L23-A



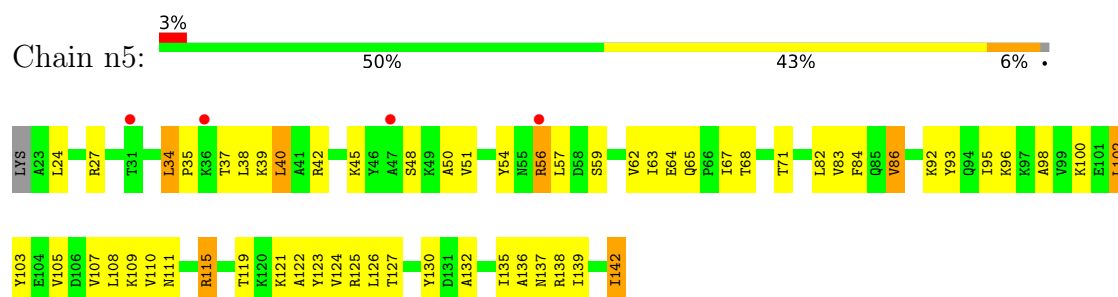
- Molecule 25: 60S ribosomal protein L24-A



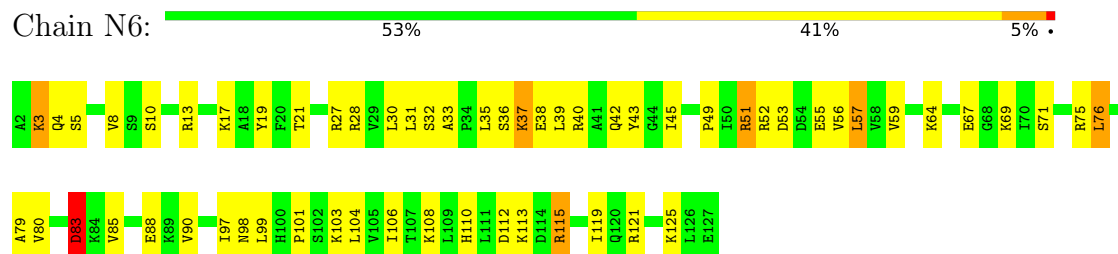
- Molecule 26: 60S ribosomal protein L25



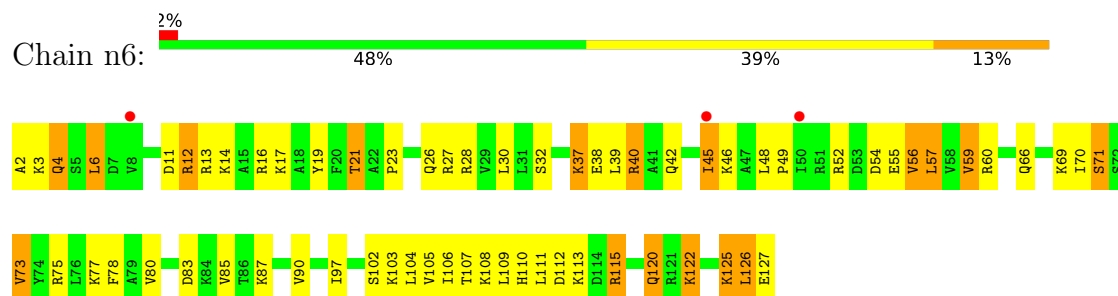
- Molecule 26: 60S ribosomal protein L25



- Molecule 27: 60S ribosomal protein L26-A

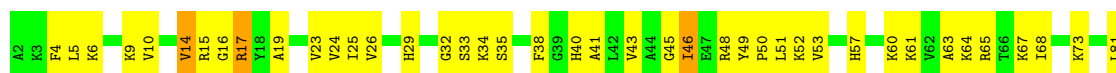


- Molecule 27: 60S ribosomal protein L26-A

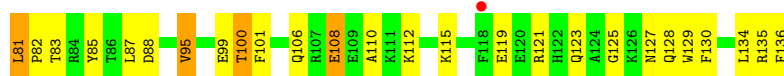
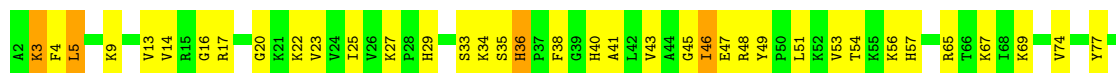


- Molecule 28: 60S ribosomal protein L27-A

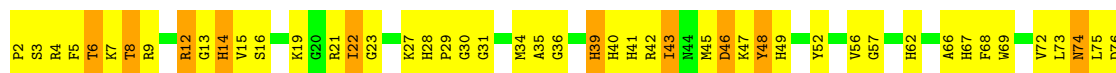




• Molecule 28: 60S ribosomal protein L27-A



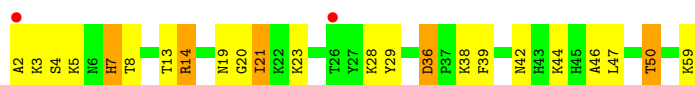
• Molecule 29: 60S ribosomal protein L28



• Molecule 29: 60S ribosomal protein L28



• Molecule 30: 60S ribosomal protein L29

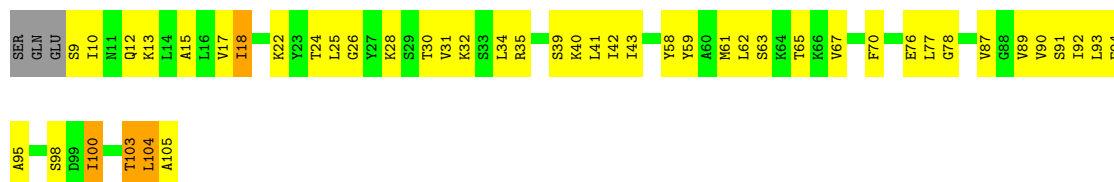


• Molecule 30: 60S ribosomal protein L29

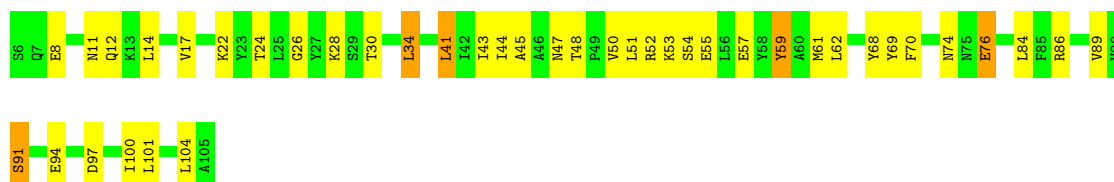




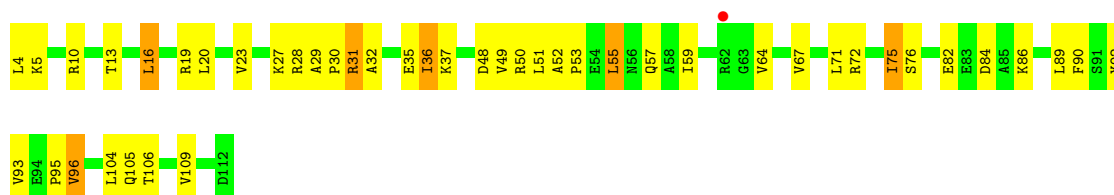
- Molecule 31: 60S ribosomal protein L30



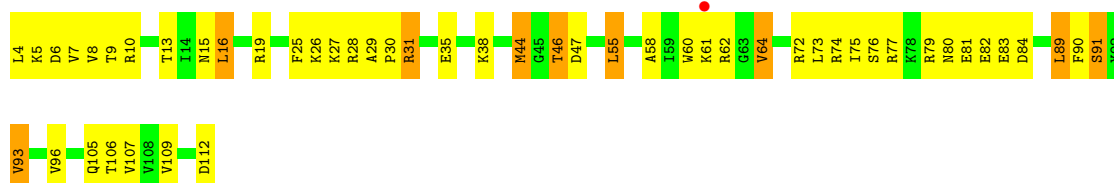
- Molecule 31: 60S ribosomal protein L30



- Molecule 32: 60S ribosomal protein L31-A

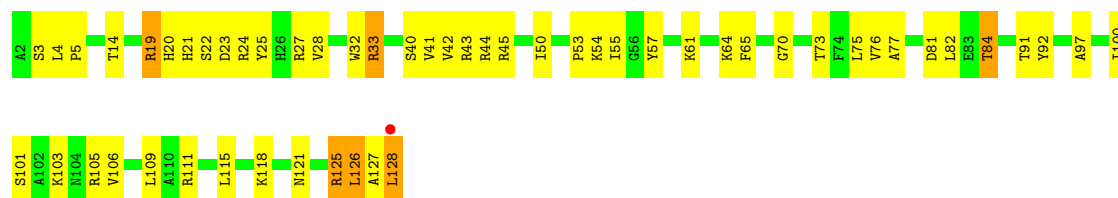


- Molecule 32: 60S ribosomal protein L31-A

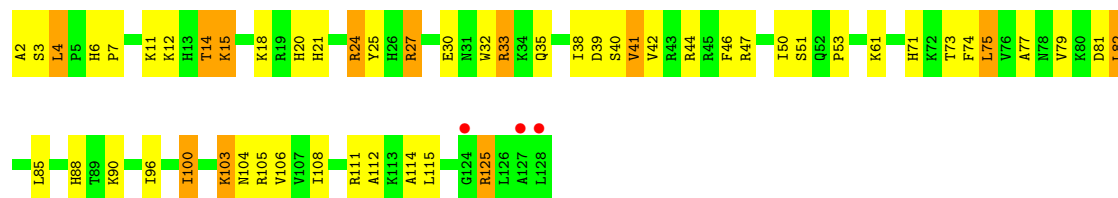


- Molecule 33: 60S ribosomal protein L32

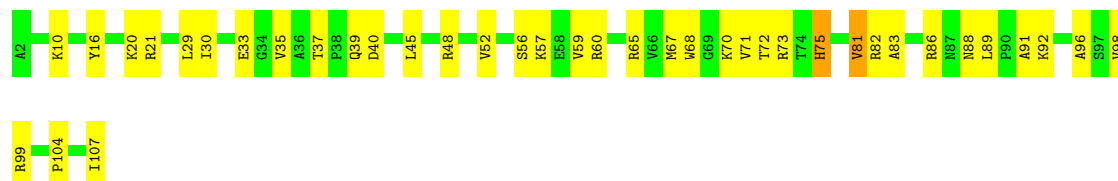




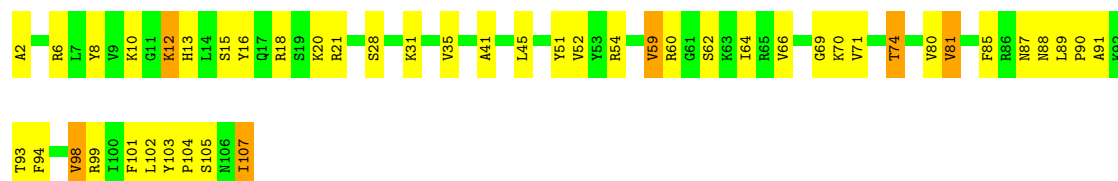
• Molecule 33: 60S ribosomal protein L32



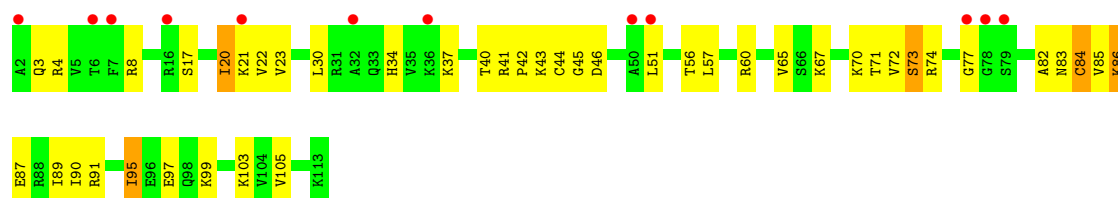
• Molecule 34: 60S ribosomal protein L33-A



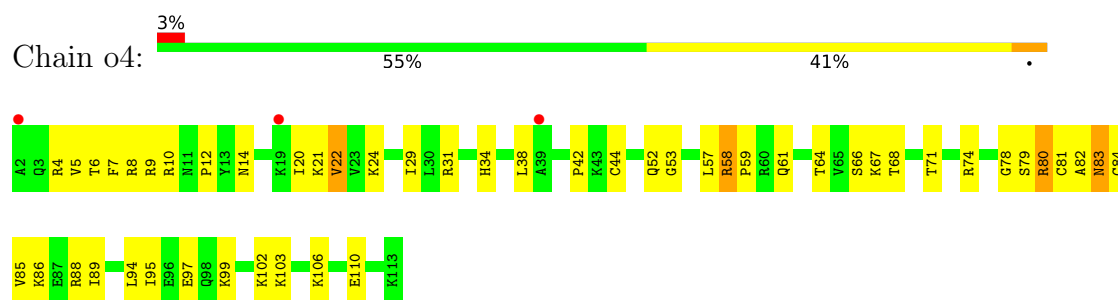
• Molecule 34: 60S ribosomal protein L33-A



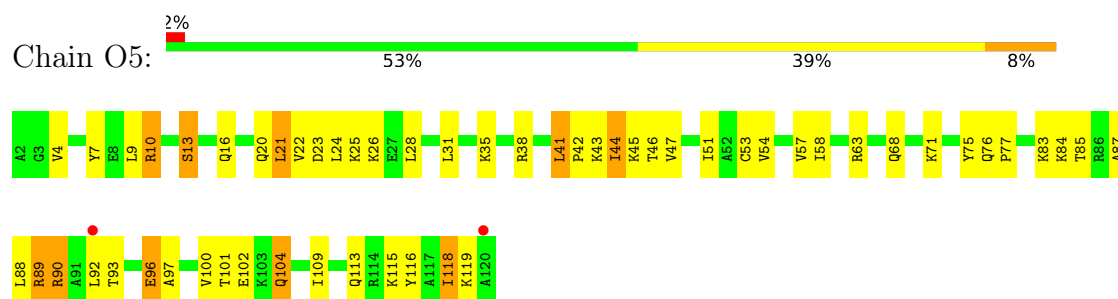
• Molecule 35: 60S ribosomal protein L34-A



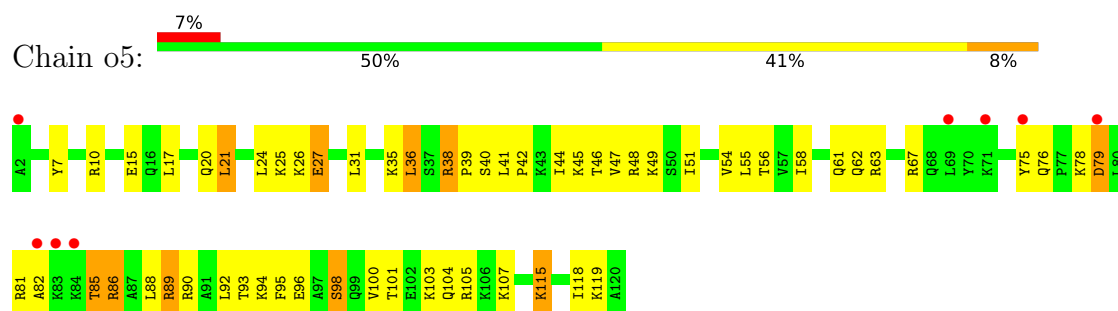
• Molecule 35: 60S ribosomal protein L34-A



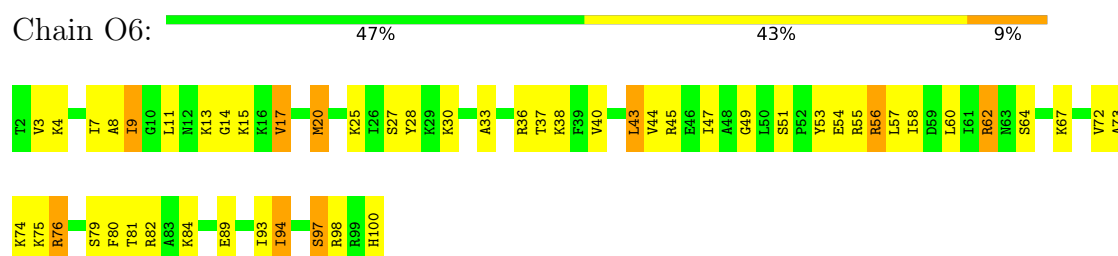
• Molecule 36: 60S ribosomal protein L35-A



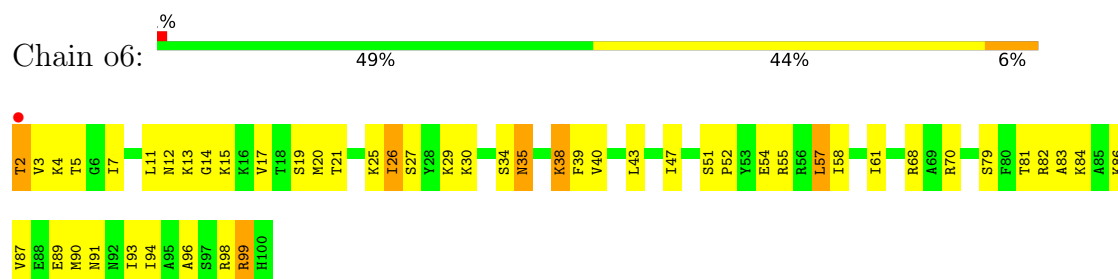
• Molecule 36: 60S ribosomal protein L35-A



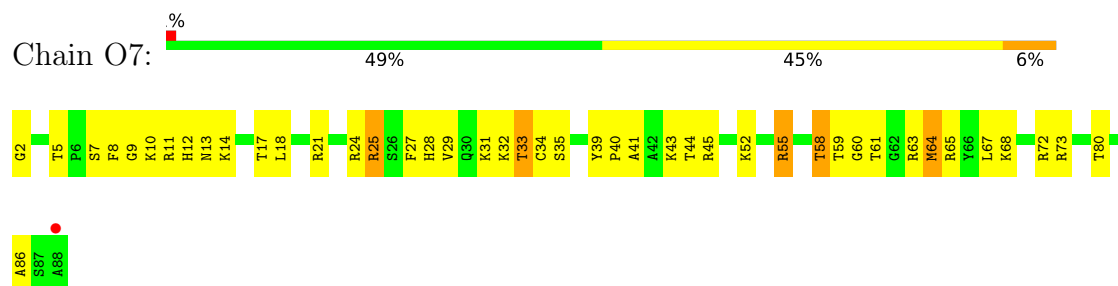
• Molecule 37: 60S ribosomal protein L36-A



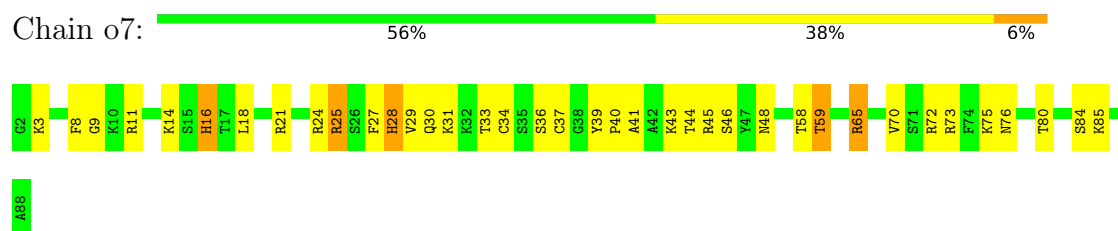
• Molecule 37: 60S ribosomal protein L36-A



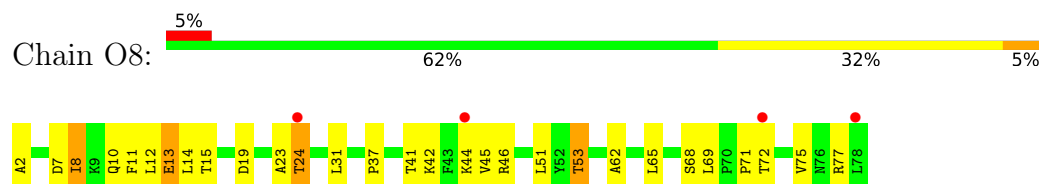
- Molecule 38: 60S ribosomal protein L37-A



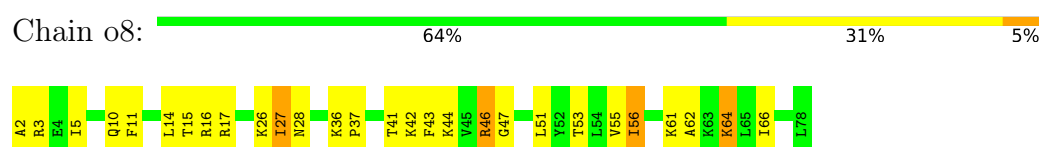
- Molecule 38: 60S ribosomal protein L37-A



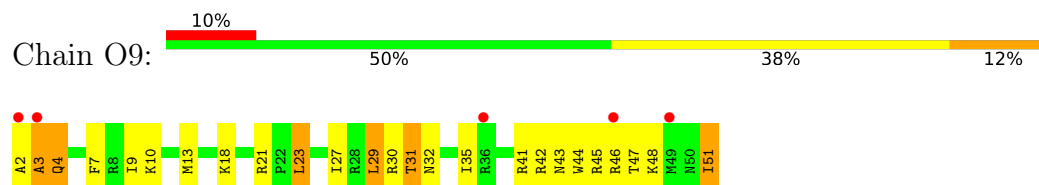
- Molecule 39: 60S ribosomal protein L38



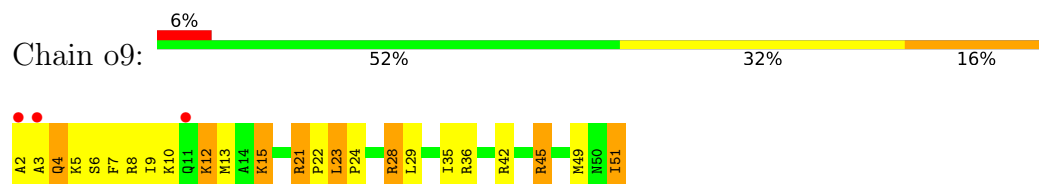
- Molecule 39: 60S ribosomal protein L38



- Molecule 40: 60S ribosomal protein L39



- Molecule 40: 60S ribosomal protein L39



- Molecule 41: Ubiquitin-60S ribosomal protein L40

Chain Q0:  52% 37% 12%



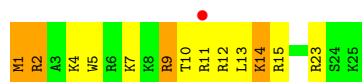
- Molecule 41: Ubiquitin-60S ribosomal protein L40

Chain q0:  2% 65% 25% 10%



- Molecule 42: 60S ribosomal protein L41-A

Chain Q1:  4% 48% 36% 16%



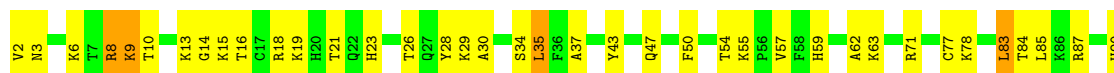
- Molecule 42: 60S ribosomal protein L41-A

Chain q1:  64% 32% 4%



- Molecule 43: 60S ribosomal protein L42-A

Chain Q2:  59% 37% 4%

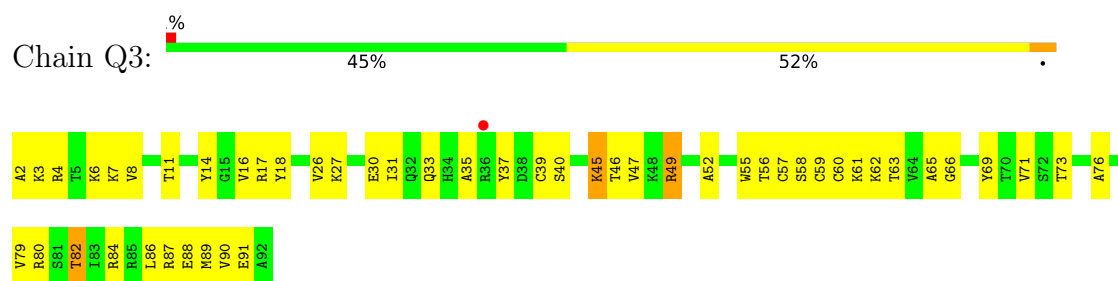


- Molecule 43: 60S ribosomal protein L42-A

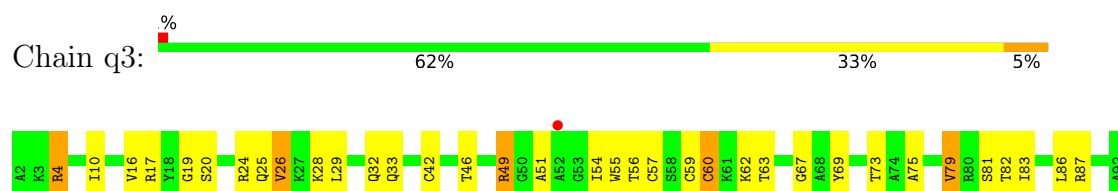
Chain q2:  52% 36% 11%



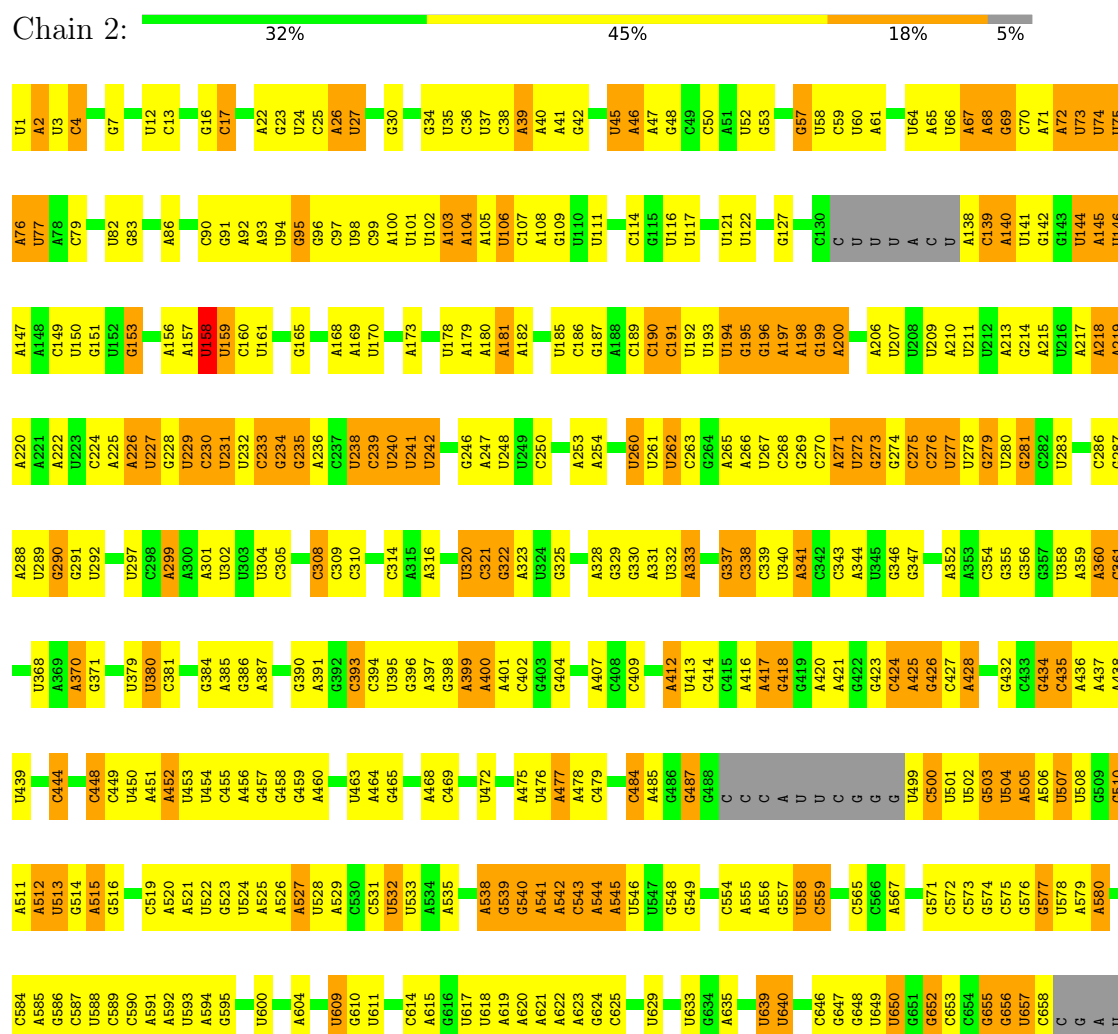
- Molecule 44: 60S ribosomal protein L43-A



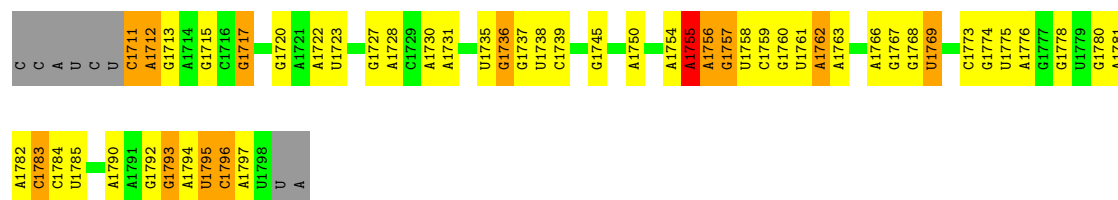
• Molecule 44: 60S ribosomal protein L43-A



• Molecule 45: 18S ribosomal RNA

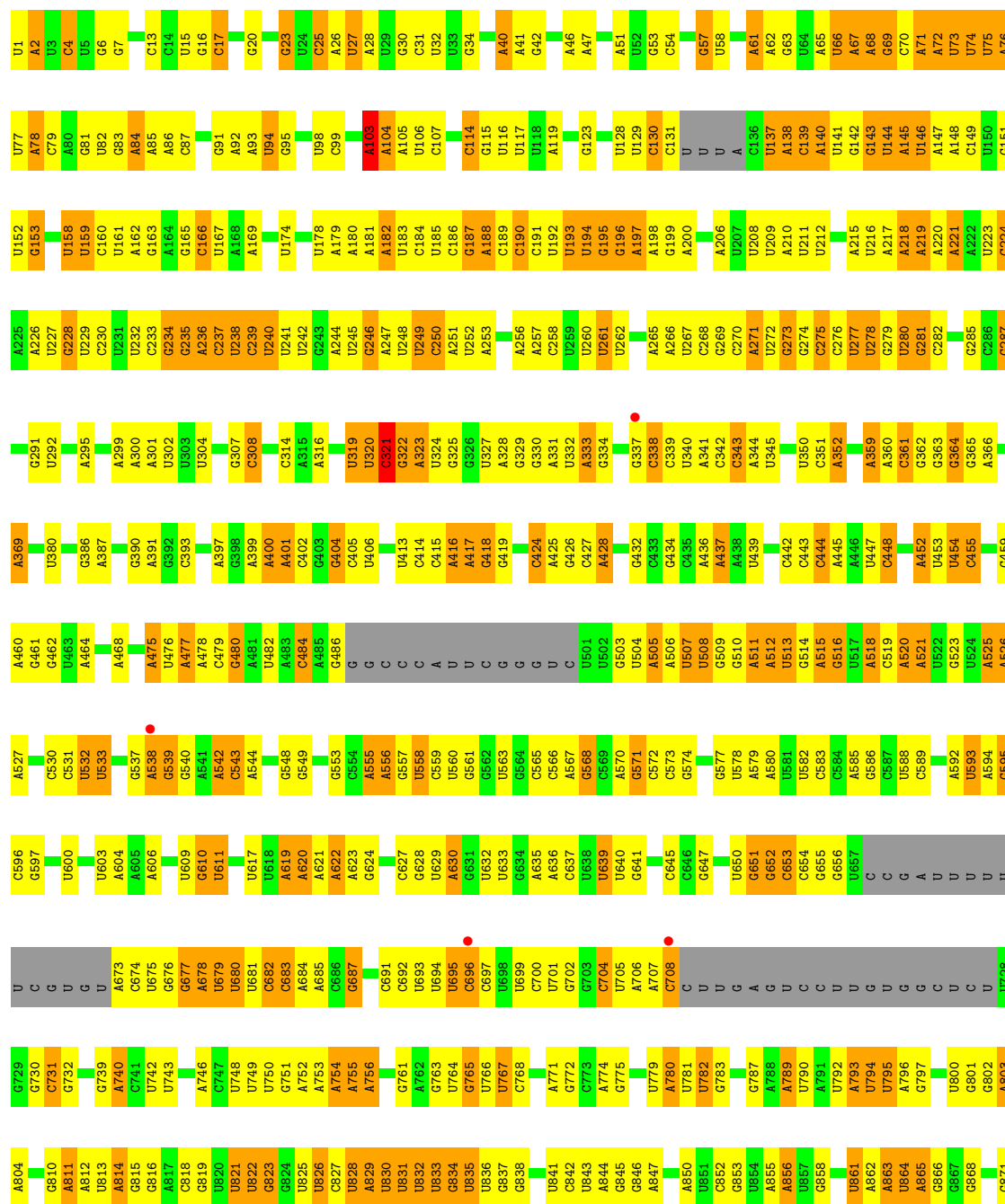


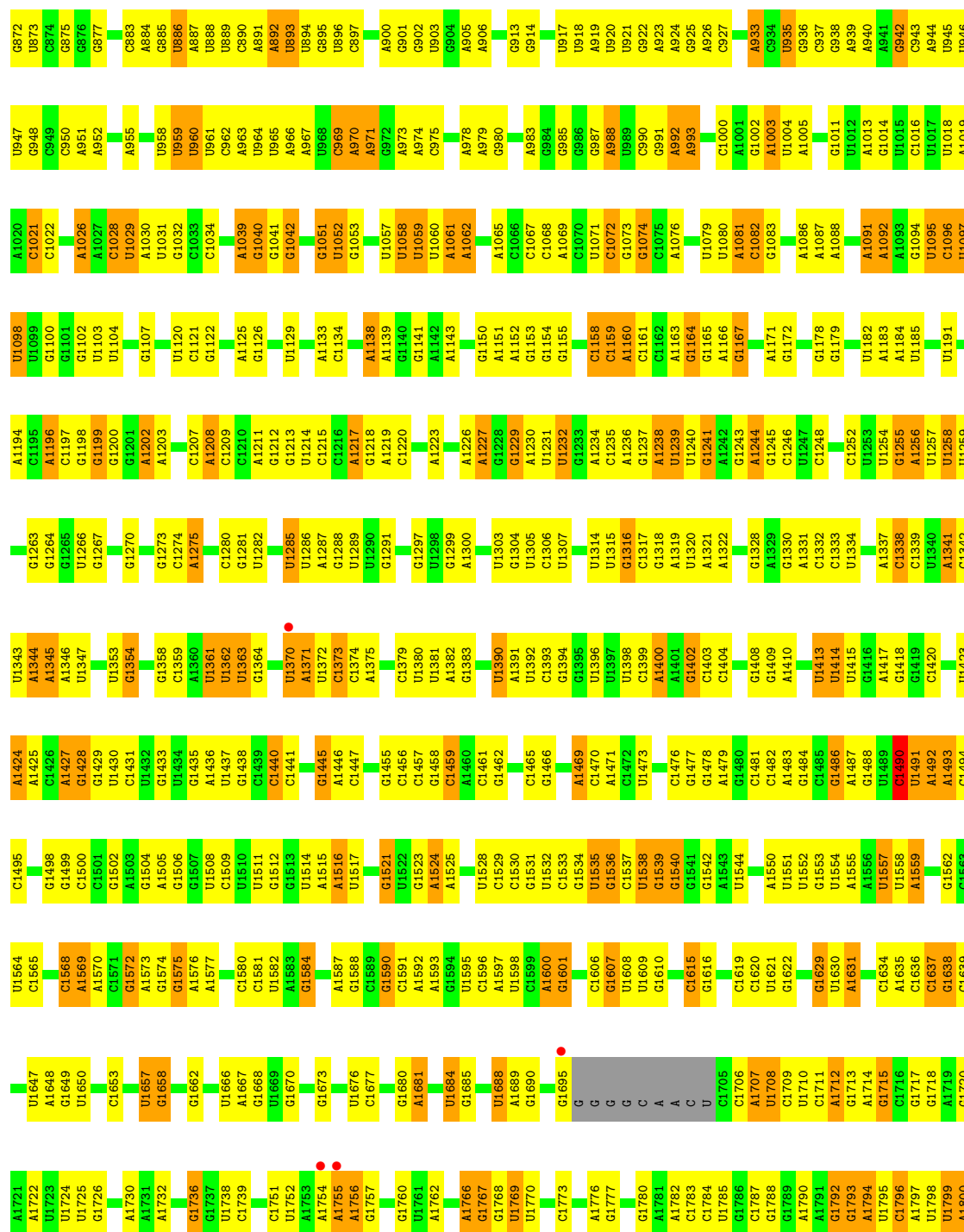


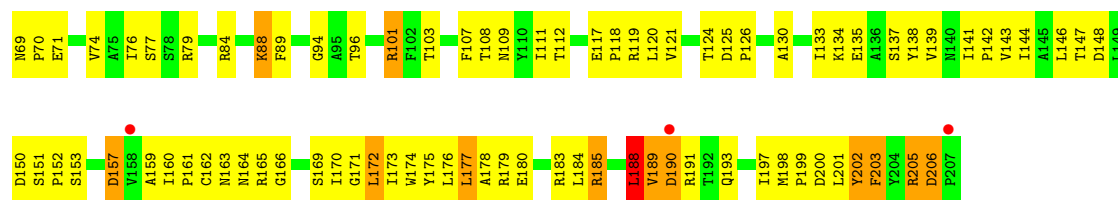


• Molecule 45: 18S ribosomal RNA

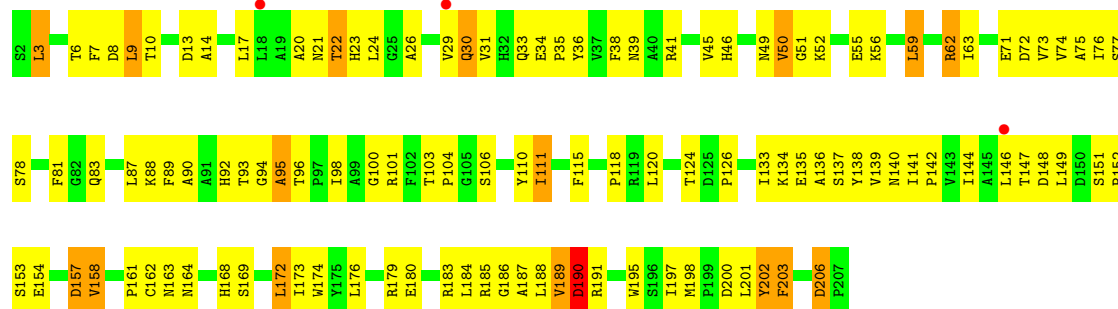
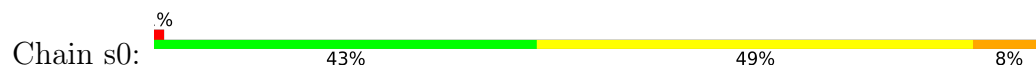
Chain 6: 38% 41% 18%



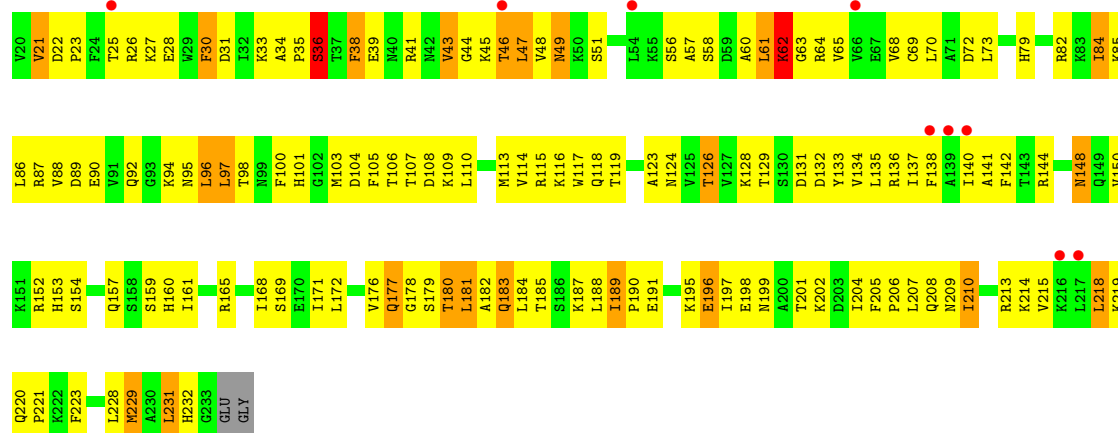




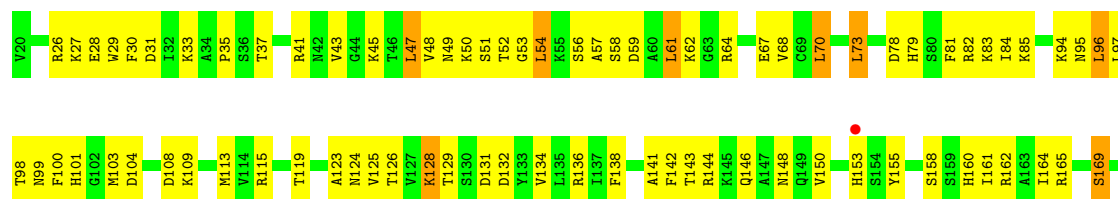
• Molecule 46: 40S ribosomal protein S0-A

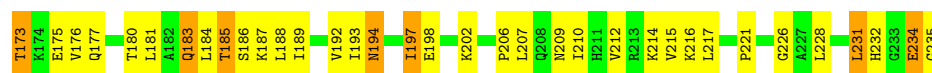


• Molecule 47: 40S ribosomal protein S1-A

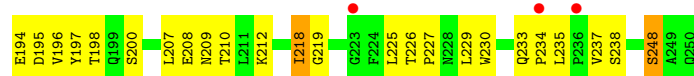


• Molecule 47: 40S ribosomal protein S1-A

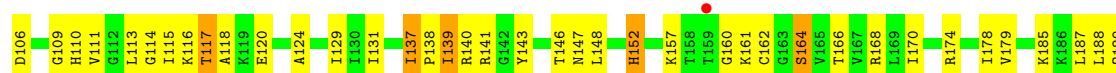
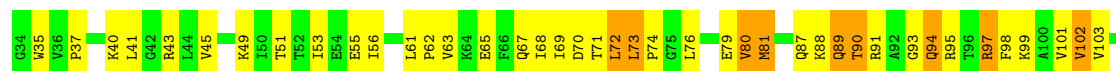




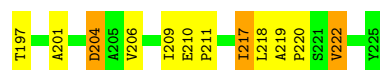
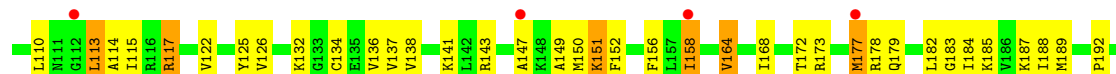
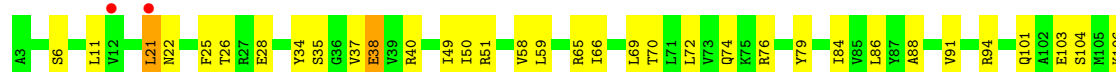
- Molecule 48: 40S ribosomal protein S2



- Molecule 48: 40S ribosomal protein S2

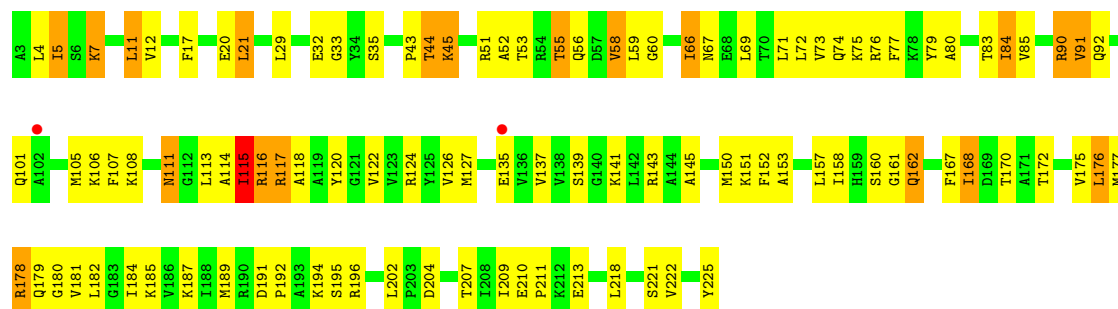


- Molecule 49: 40S ribosomal protein S3

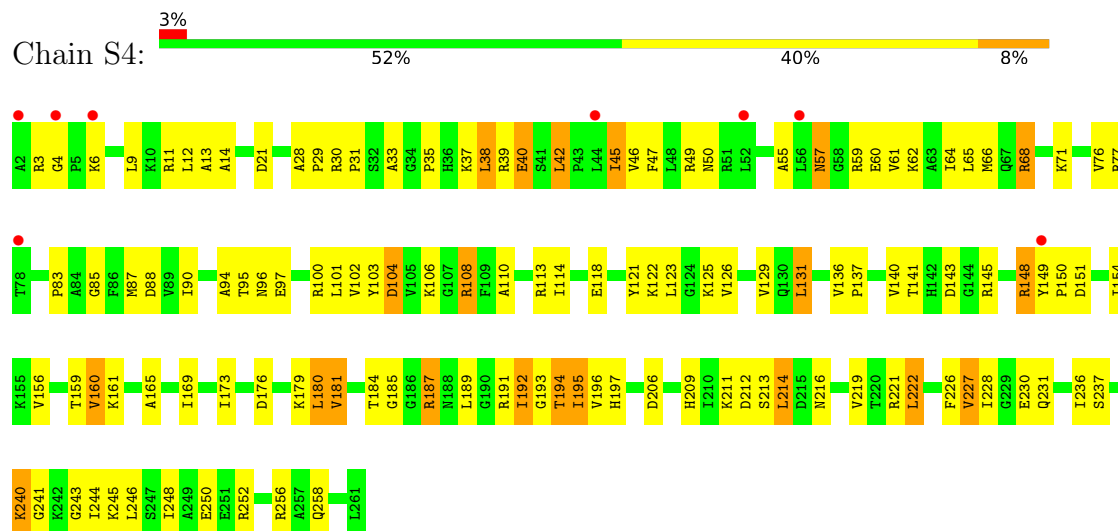


- Molecule 49: 40S ribosomal protein S3





• Molecule 50: 40S ribosomal protein S4-A

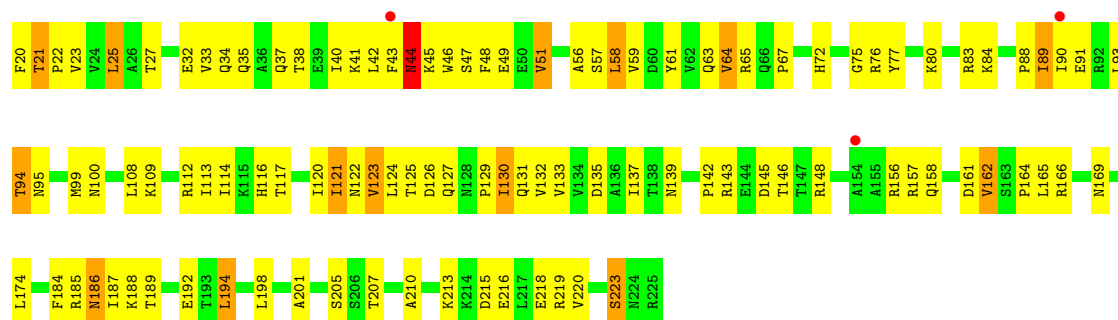


• Molecule 50: 40S ribosomal protein S4-A



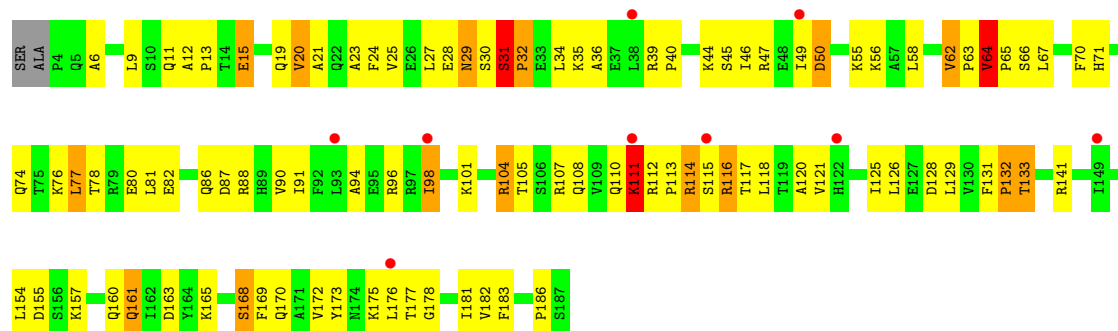
• Molecule 51: 40S ribosomal protein S5



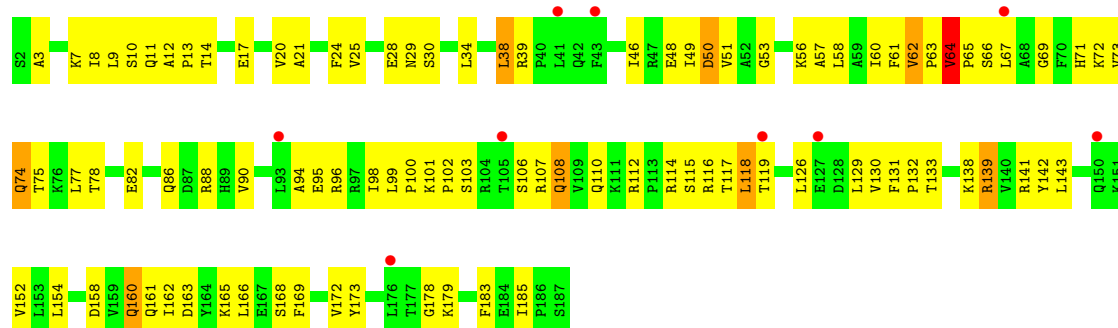




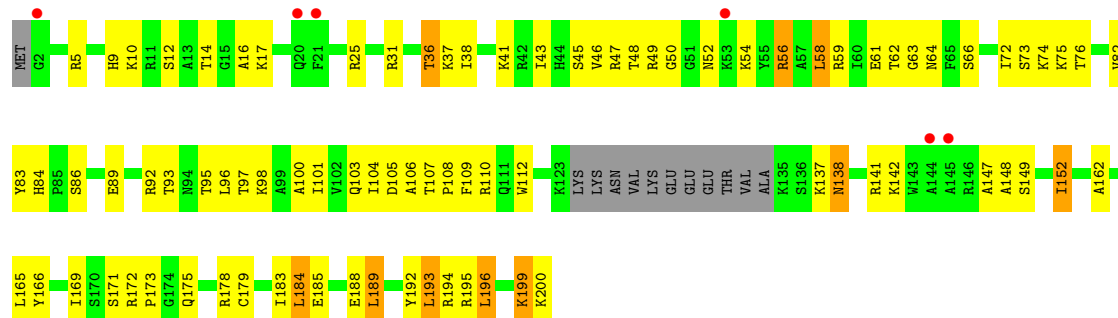
• Molecule 53: 40S ribosomal protein S7-A



• Molecule 53: 40S ribosomal protein S7-A

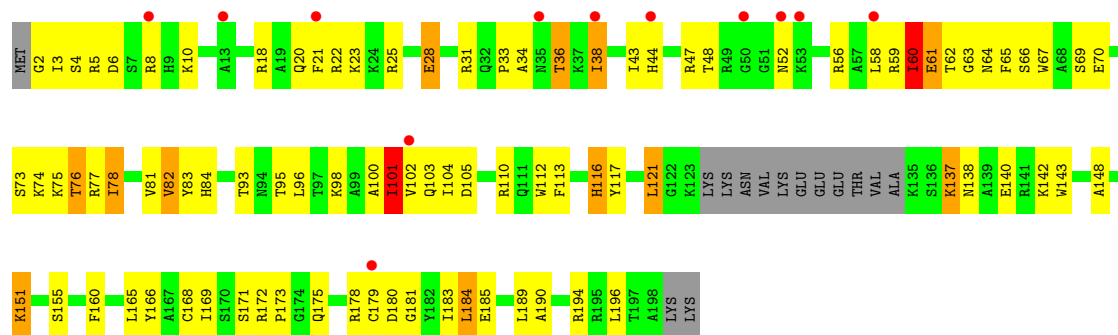


• Molecule 54: 40S ribosomal protein S8-A

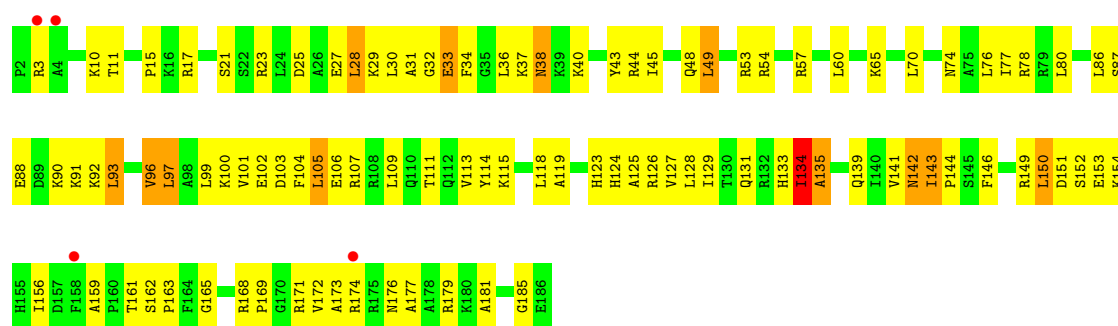


• Molecule 54: 40S ribosomal protein S8-A

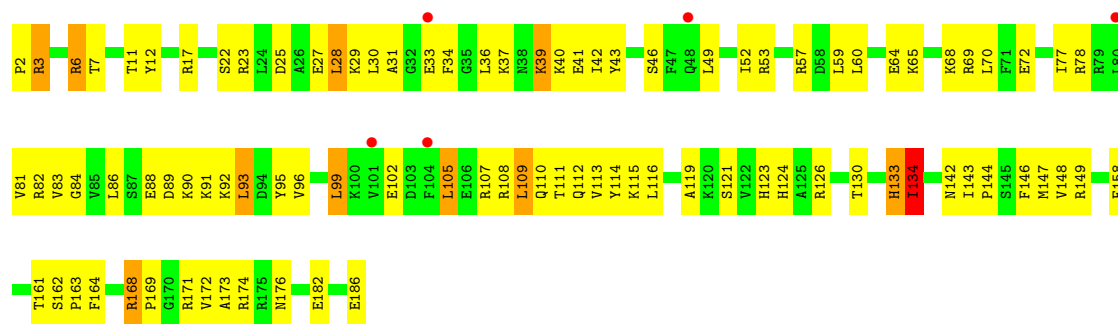




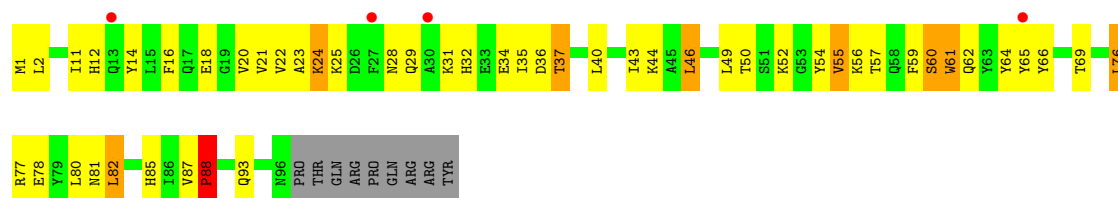
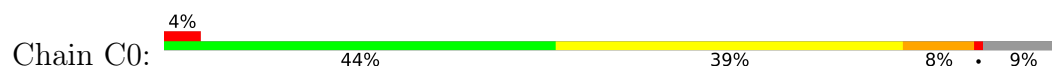
• Molecule 55: 40S ribosomal protein S9-A



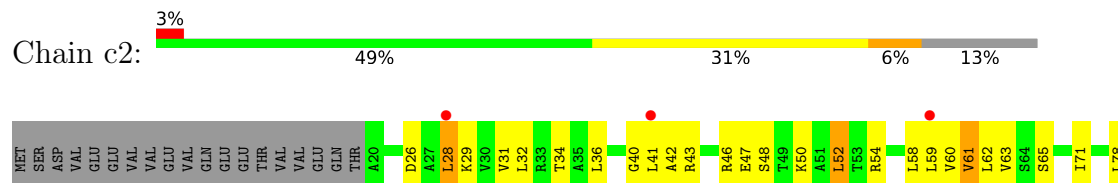
• Molecule 55: 40S ribosomal protein S9-A



• Molecule 56: 40S ribosomal protein S10-A



• Molecule 56: 40S ribosomal protein S10-A





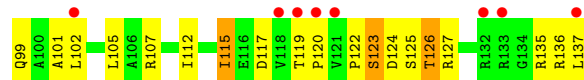
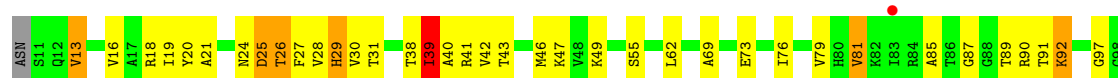
- Molecule 59: 40S ribosomal protein S13



- Molecule 59: 40S ribosomal protein S13



- Molecule 60: 40S ribosomal protein S14-B

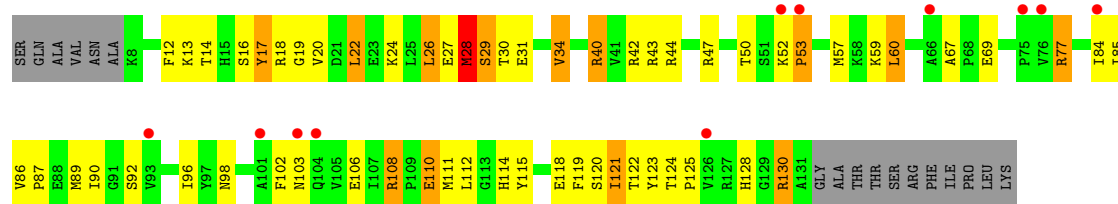


- Molecule 60: 40S ribosomal protein S14-B

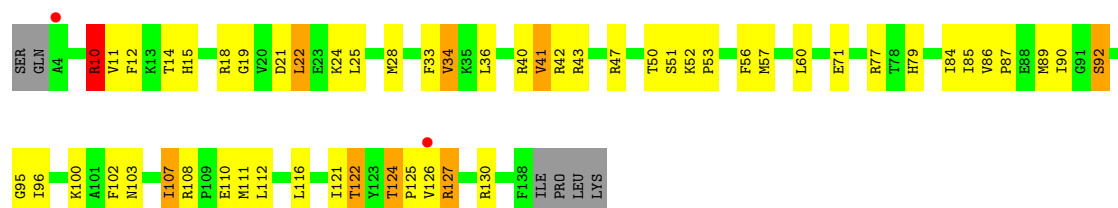


- Molecule 61: 40S ribosomal protein S15

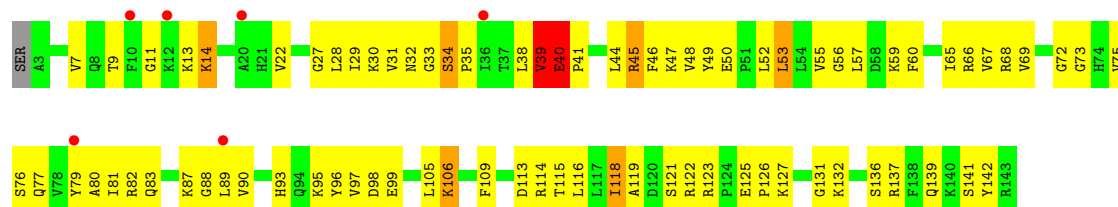
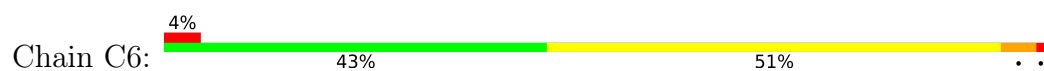




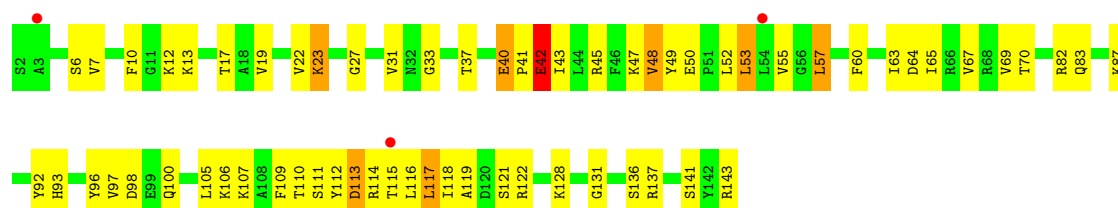
• Molecule 61: 40S ribosomal protein S15



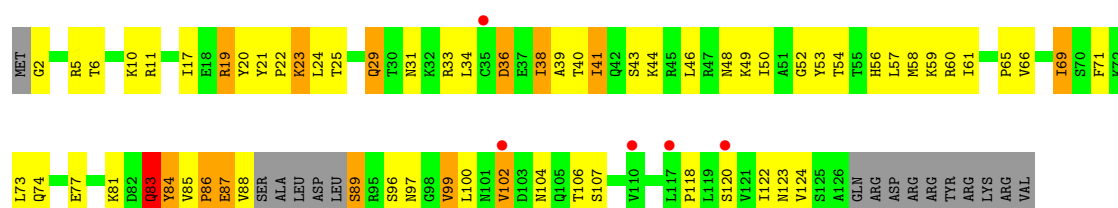
• Molecule 62: 40S ribosomal protein S16-A



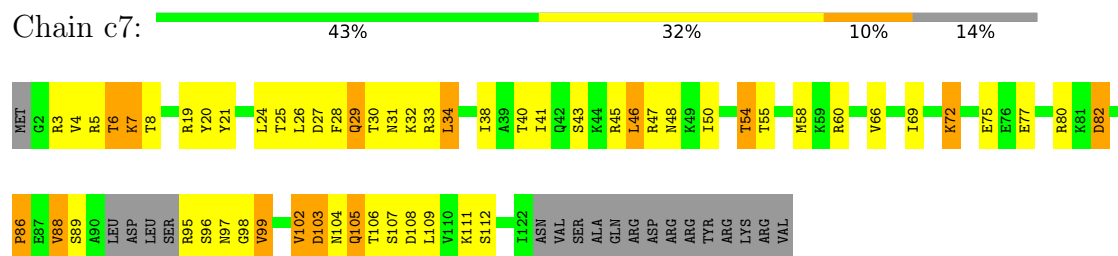
• Molecule 62: 40S ribosomal protein S16-A



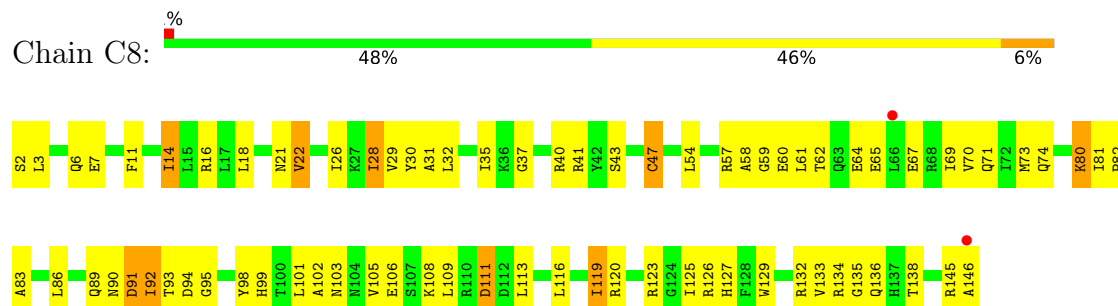
• Molecule 63: 40S ribosomal protein S17-A



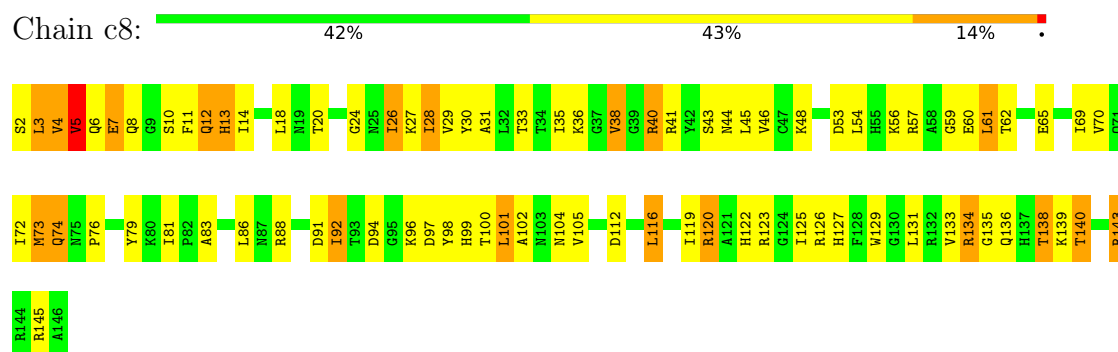
- Molecule 63: 40S ribosomal protein S17-A



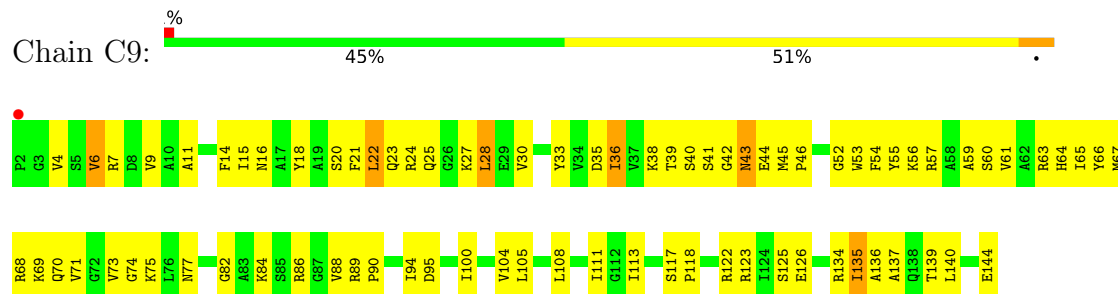
- Molecule 64: 40S ribosomal protein S18-A



- Molecule 64: 40S ribosomal protein S18-A

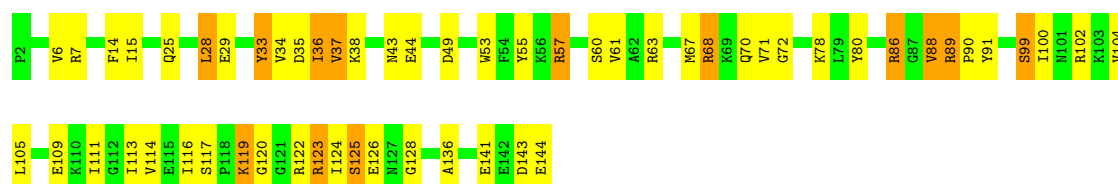


- Molecule 65: 40S ribosomal protein S19-A

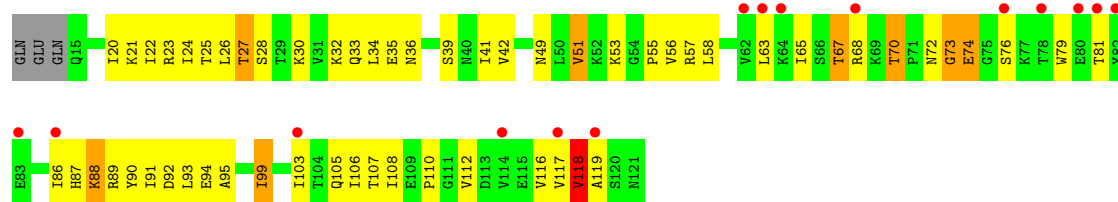


- Molecule 65: 40S ribosomal protein S19-A

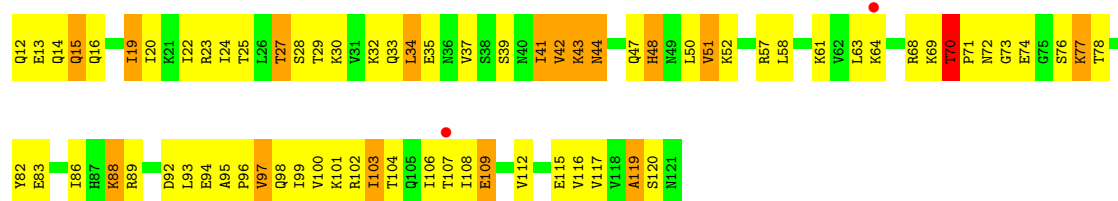




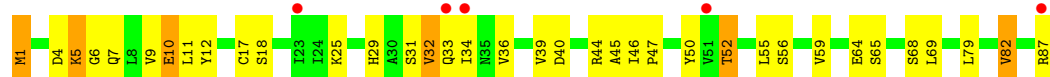
- Molecule 66: 40S ribosomal protein S20



- Molecule 66: 40S ribosomal protein S20



- Molecule 67: 40S ribosomal protein S21-A

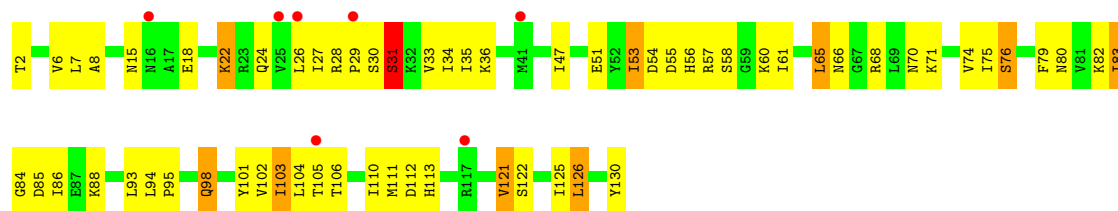


- Molecule 67: 40S ribosomal protein S21-A

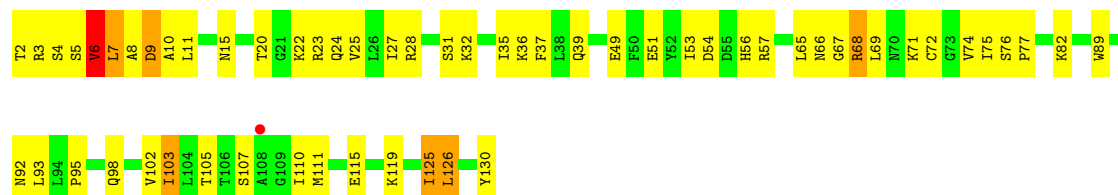


- Molecule 68: 40S ribosomal protein S22-A

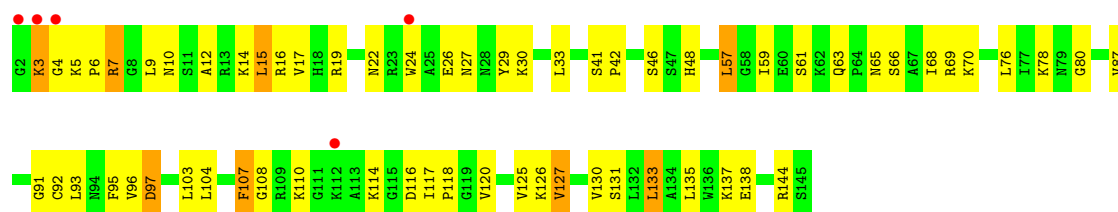




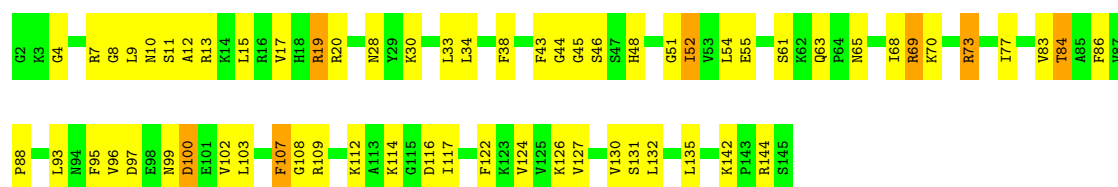
• Molecule 68: 40S ribosomal protein S22-A



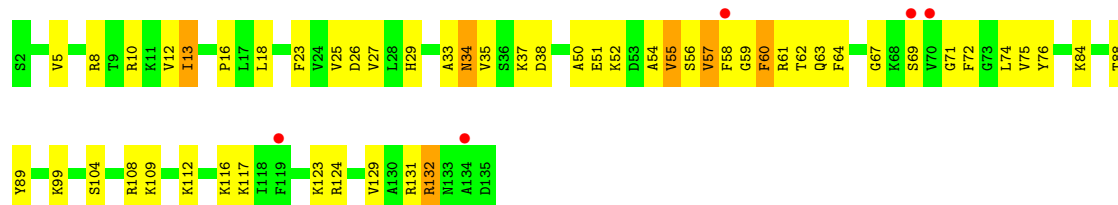
• Molecule 69: 40S ribosomal protein S23-A



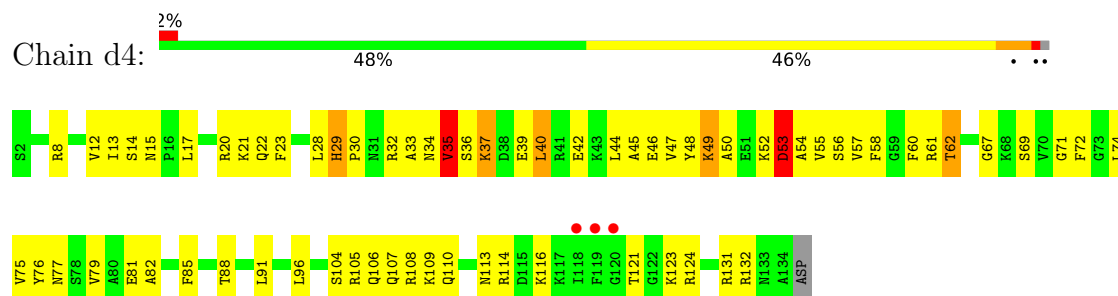
• Molecule 69: 40S ribosomal protein S23-A



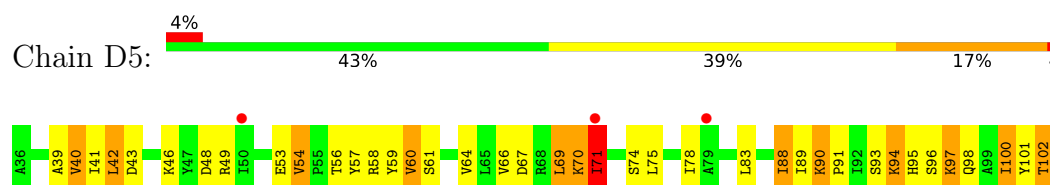
• Molecule 70: 40S ribosomal protein S24-A



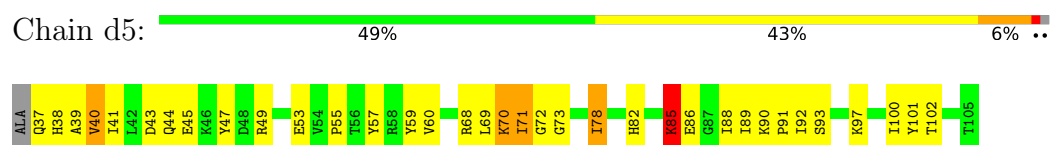
- Molecule 70: 40S ribosomal protein S24-A



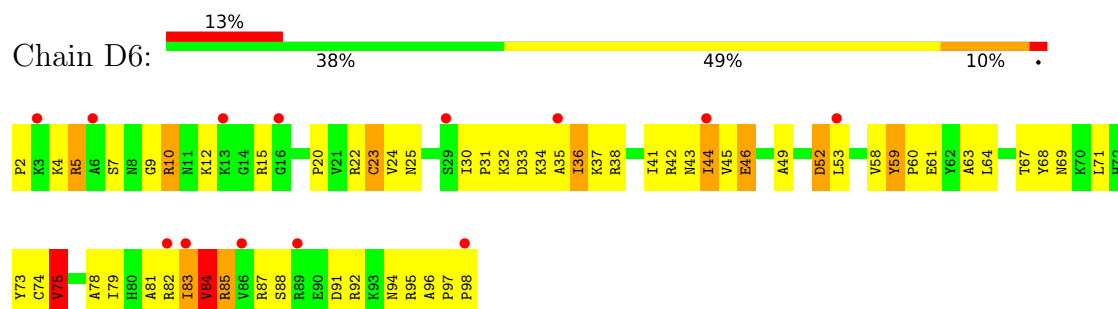
- Molecule 71: 40S ribosomal protein S25-A



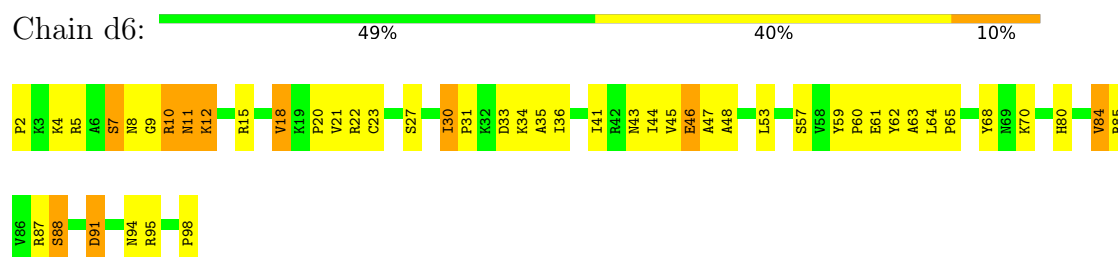
- Molecule 71: 40S ribosomal protein S25-A



- Molecule 72: 40S ribosomal protein S26-B

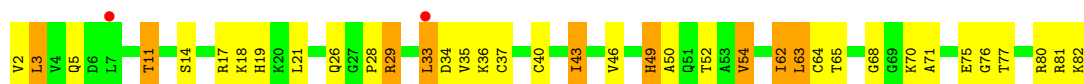


- Molecule 72: 40S ribosomal protein S26-B

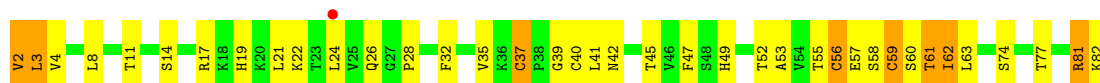


- Molecule 73: 40S ribosomal protein S27-A

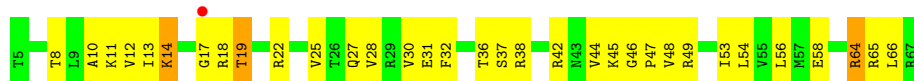




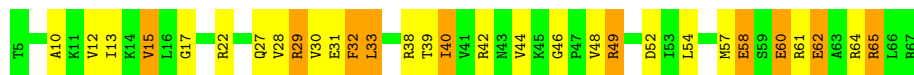
- Molecule 73: 40S ribosomal protein S27-A



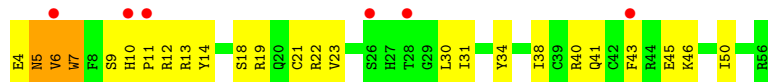
- Molecule 74: 40S ribosomal protein S28-A



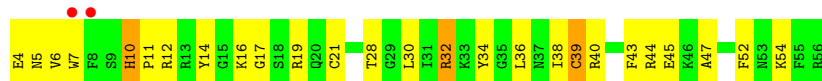
- Molecule 74: 40S ribosomal protein S28-A



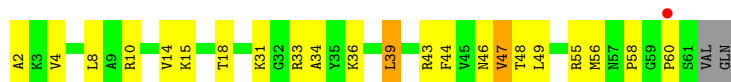
- Molecule 75: 40S ribosomal protein S29-A



- Molecule 75: 40S ribosomal protein S29-A



- Molecule 76: 40S ribosomal protein S30-A



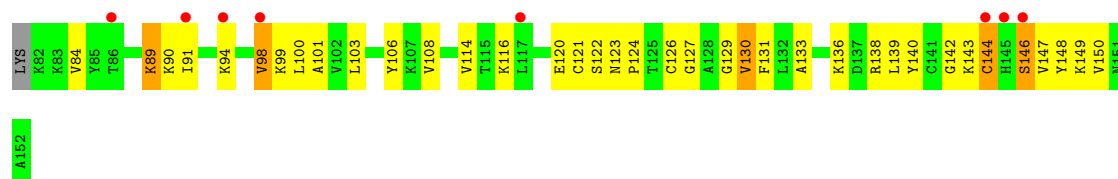
- Molecule 76: 40S ribosomal protein S30-A

Chain e0: 

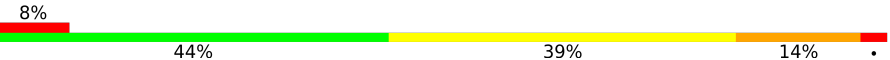


- Molecule 77: Ubiquitin-40S ribosomal protein S31

Chain E1: 



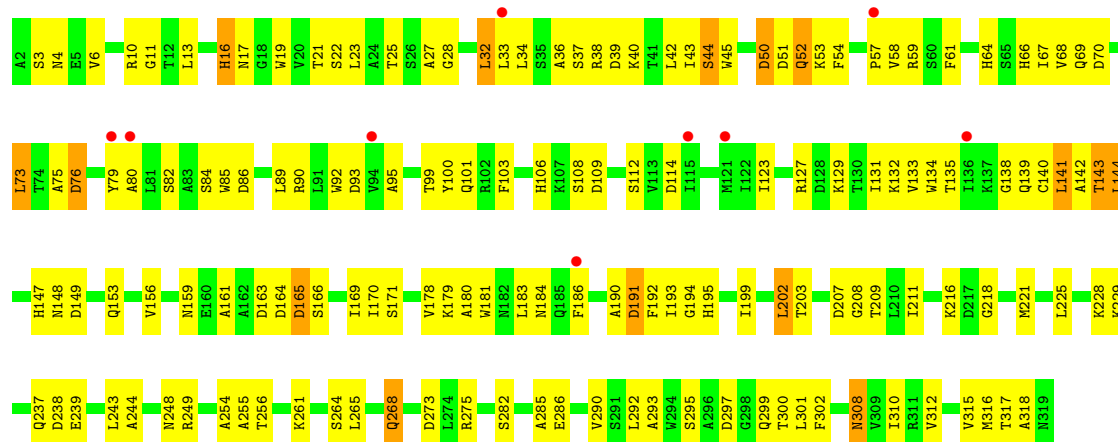
- Molecule 77: Ubiquitin-40S ribosomal protein S31

Chain e1: 



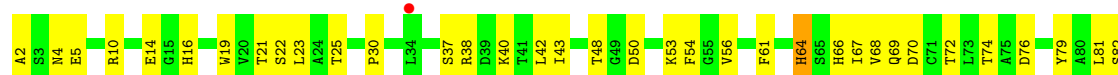
- Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein

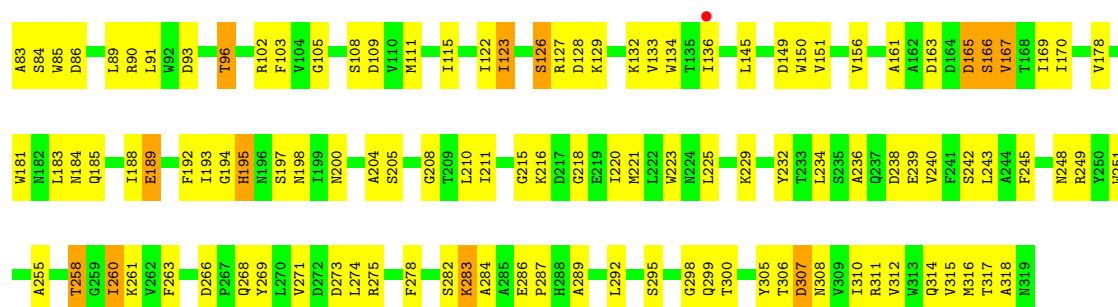
Chain SR: 



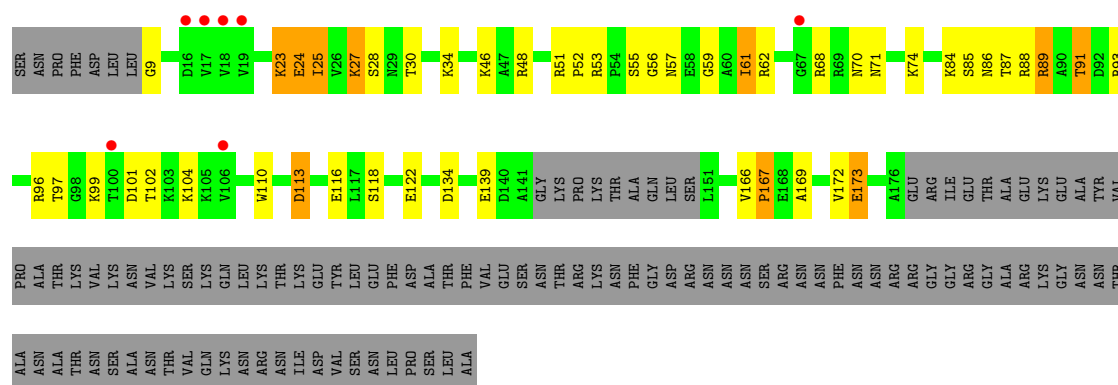
- Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR: 

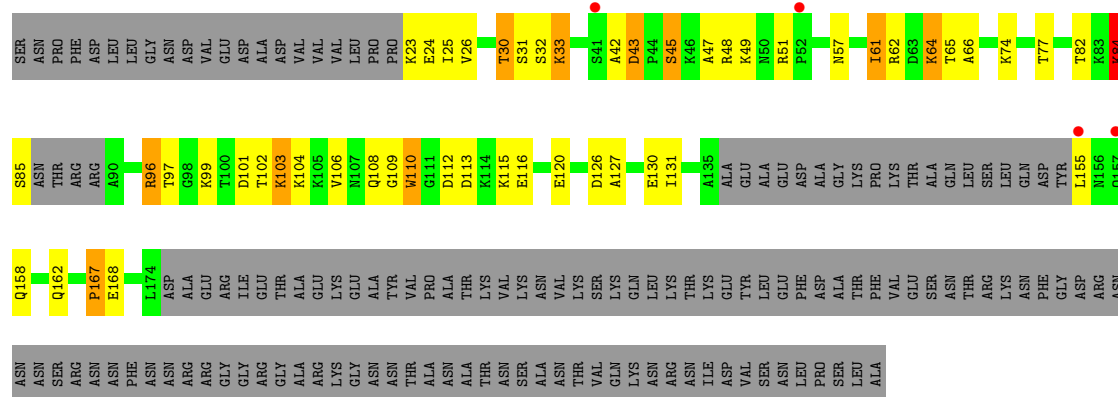
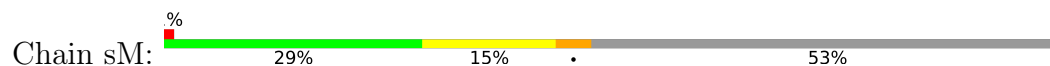




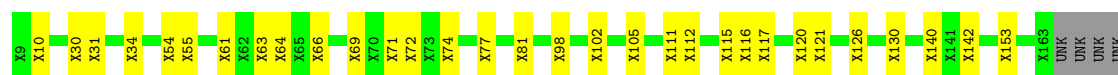
• Molecule 79: Suppressor protein STM1



• Molecule 79: Suppressor protein STM1



• Molecule 80: 60S ribosomal protein L12



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	436.63Å 287.00Å 304.73Å 90.00° 99.08° 90.00°	Depositor
Resolution (Å)	143.72 – 3.40 143.72 – 3.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (143.72-3.40) 92.9 (143.72-3.40)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.86 (at 3.41Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.189 , 0.238 0.190 , 0.238	Depositor DCC
R_{free} test set	20266 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	84.1	Xtriage
Anisotropy	0.137	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 89.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	404238	wwPDB-VP
Average B, all atoms (Å ²)	108.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.46% 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: ZN, LLL, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.41	0/74216	0.61	3/115705 (0.0%)
1	5	0.46	0/75037	0.64	8/116983 (0.0%)
2	3	0.35	0/2883	0.53	0/4491
2	7	0.46	0/2883	0.63	0/4491
3	4	0.39	0/3701	0.56	0/5760
3	8	0.36	0/3746	0.57	0/5832
4	L2	0.37	0/1948	0.66	0/2617
4	l2	0.40	0/1946	0.77	2/2614 (0.1%)
5	L3	0.44	0/3152	0.71	2/4239 (0.0%)
5	l3	0.51	0/3152	0.74	0/4239
6	L4	0.45	1/2801 (0.0%)	0.74	1/3792 (0.0%)
6	l4	0.43	0/2801	0.75	1/3792 (0.0%)
7	L5	0.33	0/2425	0.62	2/3271 (0.1%)
7	l5	0.45	0/2408	0.71	1/3248 (0.0%)
8	L6	0.41	0/1260	0.65	0/1694
8	l6	0.44	0/1269	0.67	0/1705
9	L7	0.40	0/1821	0.65	0/2451
9	l7	0.48	0/1828	0.71	0/2461
10	L8	0.30	0/1849	0.55	0/2495
10	l8	0.38	1/1795 (0.1%)	0.63	1/2429 (0.0%)
11	L9	0.40	0/1539	0.63	0/2073
11	l9	0.54	0/1539	0.74	0/2073
12	M0	0.48	1/1743 (0.1%)	0.71	3/2339 (0.1%)
12	m0	0.56	0/1752	0.79	1/2349 (0.0%)
13	M1	0.35	0/1374	0.68	1/1842 (0.1%)
13	m1	0.48	0/1374	0.70	0/1842
14	M3	0.42	0/1568	0.74	1/2106 (0.0%)
14	m3	0.41	0/1573	0.75	1/2113 (0.0%)
15	M4	0.40	0/1068	0.58	0/1438
15	m4	0.51	0/1074	0.74	0/1446
16	M5	0.38	0/1757	0.66	0/2354
16	m5	0.39	0/1757	0.65	0/2354

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	M6	0.50	0/1585	0.77	3/2128 (0.1%)
17	m6	0.61	0/1585	0.77	0/2128
18	M7	0.44	0/1438	0.72	0/1937
18	m7	0.45	0/1250	0.72	0/1683
19	M8	0.41	0/1465	0.68	0/1965
19	m8	0.44	0/1465	0.72	0/1965
20	M9	0.31	0/1491	0.60	0/1987
20	m9	0.33	0/1538	0.56	0/2050
21	N0	0.39	0/1481	0.62	0/1990
21	n0	0.51	0/1481	0.71	2/1990 (0.1%)
22	N1	0.42	0/1300	0.65	0/1743
22	n1	0.51	0/1300	0.74	2/1743 (0.1%)
23	N2	0.28	0/812	0.56	0/1099
23	n2	0.29	0/794	0.53	0/1076
24	N3	0.44	0/1018	0.63	0/1369
24	n3	0.55	0/1018	0.76	0/1369
25	N4	0.34	0/712	0.64	0/958
26	N5	0.33	0/979	0.56	0/1321
26	n5	0.34	0/974	0.63	0/1314
27	N6	0.41	0/1004	0.71	0/1341
27	n6	0.36	0/1004	0.67	0/1341
28	N7	0.28	0/1118	0.59	0/1497
28	n7	0.30	0/1118	0.60	0/1497
29	N8	0.43	0/1204	0.75	0/1612
29	n8	0.44	0/1204	0.74	0/1612
30	N9	0.48	0/473	0.78	2/629 (0.3%)
30	n9	0.55	0/473	0.85	0/629
31	O0	0.26	0/751	0.51	0/1008
31	o0	0.27	0/775	0.52	0/1040
32	O1	0.36	0/904	0.56	0/1213
32	o1	0.44	0/904	0.69	0/1213
33	O2	0.48	0/1041	0.72	0/1394
33	o2	0.45	0/1041	0.70	0/1394
34	O3	0.47	0/868	0.66	0/1168
34	o3	0.55	0/868	0.71	0/1168
35	O4	0.32	0/891	0.58	0/1191
35	o4	0.33	0/891	0.61	0/1191
36	O5	0.36	0/978	0.63	1/1301 (0.1%)
36	o5	0.33	0/978	0.57	0/1301
37	O6	0.37	0/778	0.72	0/1034
37	o6	0.36	0/778	0.60	0/1034
38	O7	0.42	0/696	0.81	0/923
38	o7	0.43	0/696	0.75	0/923

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	O8	0.27	0/618	0.54	0/826
39	o8	0.29	0/618	0.57	0/826
40	O9	0.48	0/443	0.74	0/588
40	o9	0.45	0/443	0.67	0/588
41	Q0	0.46	0/423	0.75	0/562
41	q0	0.66	0/423	0.86	0/562
42	Q1	0.39	0/234	0.56	0/300
42	q1	0.53	0/234	0.72	0/300
43	Q2	0.42	0/860	0.73	0/1136
43	q2	0.49	0/860	0.75	0/1136
44	Q3	0.33	0/701	0.63	0/934
44	q3	0.39	0/701	0.65	0/934
45	2	0.29	0/40811	0.51	2/63585 (0.0%)
45	6	0.37	0/41451	0.58	3/64581 (0.0%)
46	S0	0.28	1/1653 (0.1%)	0.59	0/2261
46	s0	0.32	0/1653	0.66	1/2261 (0.0%)
47	S1	0.29	0/1735	0.62	0/2335
47	s1	0.32	0/1748	0.62	0/2352
48	S2	0.30	0/1665	0.64	2/2263 (0.1%)
48	s2	0.37	0/1665	0.64	0/2263
49	S3	0.27	0/1759	0.53	0/2368
49	s3	0.34	0/1753	0.59	0/2361
50	S4	0.32	0/2109	0.66	4/2839 (0.1%)
50	s4	0.33	0/2109	0.67	1/2839 (0.0%)
51	S5	0.49	1/1629 (0.1%)	0.56	0/2202
51	s5	0.39	0/1629	0.77	2/2202 (0.1%)
52	S6	0.29	0/1837	0.52	0/2455
52	s6	0.33	0/1779	0.56	0/2379
53	S7	0.30	0/1506	0.69	3/2028 (0.1%)
53	s7	0.31	0/1516	0.66	0/2043
54	S8	0.29	0/1514	0.64	0/2021
54	s8	0.36	0/1496	0.66	0/1999
55	S9	0.29	0/1519	0.62	0/2035
55	s9	0.33	0/1519	0.65	0/2035
56	C0	0.28	0/789	0.74	2/1067 (0.2%)
56	c0	0.32	0/776	0.95	6/1047 (0.6%)
57	C1	0.31	0/1239	0.56	0/1673
57	c1	0.37	0/1164	0.63	0/1569
58	C2	0.29	0/898	0.72	0/1220
58	c2	0.32	0/898	0.70	0/1220
59	C3	0.26	0/1215	0.50	0/1638
59	c3	0.37	0/1215	0.68	1/1638 (0.1%)
60	C4	0.26	0/901	0.64	2/1217 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	c4	0.34	0/960	0.77	3/1290 (0.2%)
61	C5	0.33	0/998	0.61	0/1341
61	c5	0.41	0/1060	0.76	0/1426
62	C6	0.23	0/1125	0.57	3/1510 (0.2%)
62	c6	0.39	0/1131	0.66	0/1518
63	C7	0.33	0/975	0.62	0/1307
63	c7	0.35	0/925	0.71	0/1239
64	C8	0.25	0/1211	0.54	0/1628
64	c8	0.43	0/1211	0.74	0/1628
65	C9	0.26	0/1130	0.56	0/1517
65	c9	0.39	0/1130	0.62	0/1517
66	D0	0.30	0/865	0.59	0/1169
66	d0	0.38	0/892	0.78	1/1205 (0.1%)
67	D1	0.25	0/693	0.59	0/935
67	d1	0.32	0/693	0.59	0/935
68	D2	0.30	0/1038	0.60	0/1395
68	d2	0.37	0/1038	0.62	0/1395
69	D3	0.36	0/1139	0.67	0/1518
69	d3	0.49	1/1139 (0.1%)	0.70	0/1518
70	D4	0.29	0/1087	0.57	0/1449
70	d4	0.31	0/1079	0.66	0/1438
71	D5	0.24	0/571	0.69	1/768 (0.1%)
71	d5	0.35	0/566	0.57	0/761
72	D6	0.42	1/782 (0.1%)	0.78	2/1047 (0.2%)
72	d6	0.44	0/782	0.82	0/1047
73	D7	0.26	0/620	0.59	0/838
73	d7	0.33	0/620	0.82	2/838 (0.2%)
74	D8	0.22	0/499	0.51	0/670
74	d8	0.33	0/499	0.63	0/670
75	D9	0.35	0/453	0.75	0/602
75	d9	0.38	0/453	0.73	0/602
76	E0	0.32	0/483	0.67	0/643
76	e0	0.37	0/499	0.71	0/665
77	E1	0.35	0/577	0.81	0/770
77	e1	0.39	0/586	0.90	2/781 (0.3%)
78	SR	0.21	0/2494	0.47	0/3394
78	sR	0.29	0/2494	0.58	0/3394
79	SM	0.31	0/1113	0.76	3/1502 (0.2%)
79	sM	0.39	0/929	0.79	3/1246 (0.2%)
81	n4	0.39	0/1058	0.70	0/1405
82	p0	0.27	0/1092	0.54	0/1474
All	All	0.39	7/426558 (0.0%)	0.63	87/625790 (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
4	L2	0	1
4	l2	0	2
5	l3	0	1
6	L4	0	1
6	l4	0	2
7	L5	0	1
7	l5	0	2
9	L7	0	1
9	l7	0	2
11	L9	0	1
12	M0	0	1
12	m0	0	1
13	M1	0	1
13	m1	0	1
14	M3	0	1
15	M4	0	1
16	m5	0	1
18	M7	0	1
19	M8	0	1
21	N0	0	2
23	n2	0	1
24	n3	0	1
25	N4	0	2
27	N6	0	1
28	N7	0	1
28	n7	0	2
29	N8	0	3
29	n8	0	1
30	N9	0	1
32	o1	0	1
33	o2	0	2
34	o3	0	1
35	o4	0	1
37	o6	0	1
40	O9	0	1
46	s0	0	3
47	S1	0	1
48	S2	0	2
49	s3	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
50	S4	0	3
51	S5	0	1
51	s5	0	2
52	S6	0	1
52	s6	0	1
53	S7	0	5
53	s7	0	3
54	s8	0	2
55	s9	0	2
58	c2	0	1
59	c3	0	1
60	C4	0	2
60	c4	0	4
61	C5	0	2
61	c5	0	2
62	C6	0	1
63	C7	0	2
63	c7	0	2
64	C8	0	1
66	D0	0	2
66	d0	0	5
67	D1	0	1
68	D2	0	1
68	d2	0	1
69	d3	0	1
70	D4	0	1
70	d4	0	2
71	D5	0	3
71	d5	0	1
72	D6	0	2
72	d6	0	1
73	D7	0	1
76	e0	0	1
77	E1	0	3
77	e1	0	2
78	sR	0	4
79	SM	0	2
79	sM	0	2
80	m2	0	3
82	p0	0	1
All	All	0	130

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
51	S5	21	THR	C-N	16.57	1.72	1.33
6	L4	19	ALA	C-N	9.90	1.54	1.33
10	l8	51	LYS	C-N	-8.26	1.16	1.33
72	D6	59	TYR	C-N	7.10	1.50	1.33
69	d3	4	GLY	C-N	6.86	1.47	1.33
12	M0	114	GLY	CA-C	5.30	1.59	1.51
46	S0	160	ILE	C-N	-5.13	1.21	1.33

All (87) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
79	SM	167	PRO	N-CA-CB	9.90	113.64	103.25
50	S4	194	THR	N-CA-C	8.57	126.54	113.51
79	SM	166	VAL	CA-C-N	8.30	130.21	119.84
79	SM	166	VAL	C-N-CA	8.30	130.21	119.84
6	L4	182	LEU	CA-CB-CG	8.05	144.47	116.30
79	sM	82	THR	CA-C-N	8.04	136.91	121.54
79	sM	82	THR	C-N-CA	8.04	136.91	121.54
79	sM	167	PRO	N-CA-CB	8.03	111.68	103.25
53	S7	31	SER	CA-C-N	7.79	128.20	119.32
53	S7	31	SER	C-N-CA	7.79	128.20	119.32
56	c0	97	PRO	N-CA-CB	7.51	111.13	103.25
56	c0	88	PRO	N-CA-CB	7.47	111.10	103.25
56	c0	91	TYR	CA-C-N	7.47	135.41	121.97
56	c0	91	TYR	C-N-CA	7.47	135.41	121.97
56	C0	93	GLN	CB-CA-C	-7.25	108.21	116.63
56	C0	88	PRO	N-CA-CB	7.22	110.83	103.25
14	M3	93	ILE	N-CA-C	-7.16	105.74	112.83
73	d7	61	THR	CA-C-N	7.12	134.79	121.97
73	d7	61	THR	C-N-CA	7.12	134.79	121.97
12	M0	112	GLN	CB-CA-C	-7.08	108.42	116.63
48	S2	248	SER	CB-CA-C	-7.08	106.43	116.34
56	c0	83	PRO	N-CA-CB	6.90	110.50	103.25
51	s5	44	ASN	N-CA-C	-6.82	101.12	111.56
50	S4	212	ASP	CA-C-N	-6.62	113.08	122.41
50	S4	212	ASP	C-N-CA	-6.62	113.08	122.41
1	1	621	A	P-O3'-C3'	6.44	129.86	120.20
1	5	1307	G	C2'-C3'-O3'	6.41	119.12	109.50
7	L5	259	LYS	CA-C-N	6.41	133.78	121.54
7	L5	259	LYS	C-N-CA	6.41	133.78	121.54
48	S2	248	SER	N-CA-C	6.35	117.40	108.00
56	c0	23	ALA	CB-CA-C	-6.28	108.31	115.79
17	M6	112	TYR	CA-C-N	-6.27	110.03	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	M6	112	TYR	C-N-CA	-6.27	110.03	120.68
1	1	1307	G	C2'-C3'-O3'	6.25	118.87	109.50
12	M0	14	ASN	CA-C-N	6.22	129.53	120.51
12	M0	14	ASN	C-N-CA	6.22	129.53	120.51
51	s5	99	MET	N-CA-C	6.20	116.03	107.73
1	5	2524	A	O4'-C1'-N9	6.11	117.37	108.20
60	c4	125	SER	N-CA-C	6.07	123.74	110.80
66	d0	120	SER	CB-CA-C	-6.04	107.89	116.34
46	s0	206	ASP	N-CA-C	5.88	118.06	109.30
1	5	1307	G	P-O3'-C3'	5.86	128.98	120.20
22	n1	51	GLY	CA-C-N	5.76	128.66	120.49
22	n1	51	GLY	C-N-CA	5.76	128.66	120.49
7	l5	295	GLY	N-CA-C	5.72	120.58	110.80
1	5	2971	A	N9-C1'-C2'	5.69	122.53	114.00
1	5	3195	U	C2'-C3'-O3'	5.67	118.01	109.50
5	L3	224	HIS	CA-C-N	-5.60	111.30	121.32
5	L3	224	HIS	C-N-CA	-5.60	111.30	121.32
21	n0	1	MET	CA-C-N	5.59	134.10	121.53
21	n0	1	MET	C-N-CA	5.59	134.10	121.53
53	S7	32	PRO	N-CA-C	5.51	121.96	113.75
13	M1	172	LEU	N-CA-C	5.48	122.47	110.80
62	C6	40	GLU	N-CA-C	5.37	121.67	109.81
17	M6	111	PRO	N-CA-C	-5.36	102.78	111.14
1	1	637	C	C4'-C3'-O3'	5.36	117.44	109.40
77	e1	136	LYS	CA-C-N	5.34	131.73	121.54
77	e1	136	LYS	C-N-CA	5.34	131.73	121.54
60	c4	123	SER	CA-C-N	5.32	131.71	121.54
60	c4	123	SER	C-N-CA	5.32	131.71	121.54
12	m0	176	LEU	CA-CB-CG	5.29	134.82	116.30
4	l2	238	ILE	CA-C-N	-5.28	114.94	123.23
4	l2	238	ILE	C-N-CA	-5.28	114.94	123.23
45	2	158	U	C2'-C3'-O3'	5.28	117.42	109.50
45	6	1490	C	N1-C1'-C2'	5.27	121.91	114.00
71	D5	97	LYS	CB-CA-C	-5.27	110.06	117.23
45	2	1755	A	P-O3'-C3'	-5.26	112.31	120.20
50	s4	260	GLY	N-CA-C	5.26	125.64	113.18
59	c3	139	TRP	CA-CB-CG	-5.23	103.66	113.60
1	5	3195	U	P-O3'-C3'	5.22	128.03	120.20
60	C4	39	ILE	CA-C-N	5.19	131.46	121.54
60	C4	39	ILE	C-N-CA	5.19	131.46	121.54
36	O5	97	ALA	N-CA-C	-5.18	99.78	110.80
72	D6	84	VAL	CA-C-N	5.17	131.41	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
72	D6	84	VAL	C-N-CA	5.17	131.41	121.54
62	C6	39	VAL	CA-C-N	5.15	134.36	121.80
62	C6	39	VAL	C-N-CA	5.15	134.36	121.80
45	6	103	A	P-O3'-C3'	5.13	127.90	120.20
30	N9	20	GLY	N-CA-C	5.10	123.08	115.64
6	l4	339	LEU	CA-CB-CG	5.08	134.09	116.30
30	N9	7	HIS	N-CA-C	5.07	116.22	108.52
14	m3	134	GLU	CA-CB-CG	5.05	124.21	114.10
50	S4	214	LEU	N-CA-C	-5.04	106.04	113.61
45	6	321	C	P-O3'-C3'	5.04	127.76	120.20
10	l8	97	TYR	CA-CB-CG	-5.04	104.84	113.90
1	5	1716	U	P-O3'-C3'	5.03	127.75	120.20
1	5	2400	G	OP2-P-O3'	5.01	123.03	108.00

There are no chirality outliers.

All (130) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
60	C4	123	SER	Peptide
60	C4	49	LYS	Peptide
61	C5	17	TYR	Peptide
61	C5	28	MET	Peptide
62	C6	40	GLU	Peptide
63	C7	22	PRO	Peptide
63	C7	89	SER	Peptide
64	C8	81	ILE	Peptide
66	D0	118	VAL	Peptide
66	D0	73	GLY	Peptide
67	D1	6	GLY	Peptide
68	D2	54	ASP	Peptide
70	D4	60	PHE	Peptide
71	D5	54	VAL	Peptide
71	D5	94	LYS	Peptide
71	D5	96	SER	Peptide
72	D6	10	ARG	Peptide
72	D6	81	ALA	Peptide
73	D7	49	HIS	Peptide
77	E1	103	LEU	Peptide
77	E1	146	SER	Peptide
77	E1	84	VAL	Peptide
4	L2	48	ILE	Peptide
6	L4	318	LEU	Peptide

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Mol	Chain	Res	Type	Group
7	L5	251	PRO	Peptide
9	L7	29	GLU	Peptide
11	L9	21	LYS	Peptide
12	M0	117	GLY	Peptide
13	M1	11	ASP	Peptide
14	M3	74	GLY	Peptide
15	M4	48	GLY	Peptide
18	M7	120	ASN	Peptide
19	M8	161	LYS	Peptide
21	N0	133	ALA	Peptide
21	N0	3	HIS	Peptide
25	N4	67	VAL	Peptide
25	N4	70	LYS	Peptide
27	N6	83	ASP	Peptide
28	N7	124	ALA	Peptide
29	N8	115	LYS	Peptide
29	N8	30	GLY	Peptide
29	N8	46	ASP	Peptide
30	N9	19	ASN	Peptide
40	O9	3	ALA	Peptide
47	S1	36	SER	Peptide
48	S2	248	SER	Peptide
48	S2	91	ARG	Peptide
50	S4	165	ALA	Peptide
50	S4	192	ILE	Peptide
50	S4	213	SER	Peptide
51	S5	44	ASN	Peptide
52	S6	19	ASP	Peptide
53	S7	111	LYS	Peptide
53	S7	132	PRO	Peptide
53	S7	29	ASN	Peptide
53	S7	31	SER	Peptide
53	S7	64	VAL	Peptide
79	SM	173	GLU	Peptide
79	SM	46	LYS	Peptide
58	c2	82	PRO	Peptide
59	c3	132	VAL	Peptide
60	c4	123	SER	Peptide
60	c4	124	ASP	Peptide
60	c4	131	GLY	Peptide
60	c4	90	ARG	Peptide
61	c5	10	ARG	Peptide

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Mol	Chain	Res	Type	Group
61	c5	50	THR	Peptide
63	c7	112	SER	Peptide
63	c7	82	ASP	Peptide
66	d0	119	ALA	Peptide
66	d0	15	GLN	Peptide
66	d0	48	HIS	Peptide
66	d0	51	VAL	Peptide
66	d0	70	THR	Peptide
68	d2	54	ASP	Peptide
69	d3	44	GLY	Peptide
70	d4	29	HIS	Peptide
70	d4	35	VAL	Peptide
71	d5	85	LYS	Peptide
72	d6	57	SER	Peptide
76	e0	44	PHE	Peptide
77	e1	106	TYR	Peptide
77	e1	87	THR	Peptide
4	l2	143	GLU	Peptide
4	l2	215	ASN	Peptide
5	l3	348	ARG	Peptide
6	l4	339	LEU	Peptide
6	l4	352	ALA	Peptide
7	l5	133	GLU	Peptide
7	l5	177	GLU	Peptide
9	l7	192	GLY	Peptide
9	l7	226	GLY	Peptide
12	m0	217	PHE	Peptide
13	m1	151	SER	Peptide
80	m2	10	UNK	Peptide
80	m2	117	UNK	Peptide
80	m2	153	UNK	Peptide
16	m5	66	VAL	Peptide
23	n2	44	GLU	Peptide
24	n3	41	GLY	Peptide
28	n7	101	PHE	Peptide
28	n7	3	LYS	Peptide
29	n8	66	ALA	Peptide
32	o1	6	ASP	Peptide
33	o2	15	LYS	Peptide
33	o2	39	ASP	Peptide
34	o3	91	ALA	Peptide
35	o4	80	ARG	Peptide

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Mol	Chain	Res	Type	Group
37	o6	2	THR	Peptide
82	p0	92	PRO	Peptide
46	s0	187	ALA	Peptide
46	s0	72	ASP	Peptide
46	s0	94	GLY	Peptide
49	s3	90	ARG	Peptide
51	s5	44	ASN	Peptide
51	s5	99	MET	Peptide
52	s6	150	GLU	Peptide
53	s7	130	VAL	Peptide
53	s7	29	ASN	Peptide
53	s7	64	VAL	Peptide
54	s8	148	ALA	Peptide
54	s8	60	ILE	Peptide
55	s9	88	GLU	Peptide
55	s9	89	ASP	Peptide
79	sM	45	SER	Peptide
79	sM	84	LYS	Peptide
78	sR	184	ASN	Peptide
78	sR	185	GLN	Peptide
78	sR	193	ILE	Peptide
78	sR	30	PRO	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	1	66304	0	33321	1411	0
1	5	67039	0	33693	1478	0
2	3	2579	0	1304	53	0
2	7	2579	0	1304	78	0
3	4	3313	0	1676	59	0
3	8	3353	0	1695	89	0
4	L2	1914	0	1981	90	0
4	l2	1912	0	1976	98	0
5	L3	3081	0	3165	131	0
5	l3	3081	0	3165	145	0
6	L4	2749	0	2863	148	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	l4	2749	0	2863	141	0
7	L5	2375	0	2325	83	0
7	l5	2359	0	2311	113	0
8	L6	1239	0	1326	60	0
8	l6	1248	0	1339	51	0
9	L7	1784	0	1862	76	0
9	l7	1791	0	1869	63	0
10	L8	1817	0	1908	72	0
10	l8	1763	0	1819	80	0
11	L9	1518	0	1587	104	0
11	l9	1518	0	1587	65	0
12	M0	1707	0	1731	75	0
12	m0	1716	0	1757	91	0
13	M1	1353	0	1383	53	0
13	m1	1353	0	1383	57	0
14	M3	1543	0	1608	85	0
14	m3	1548	0	1613	79	0
15	M4	1053	0	1149	57	0
15	m4	1059	0	1154	40	0
16	M5	1720	0	1779	85	0
16	m5	1720	0	1779	89	0
17	M6	1555	0	1659	53	0
17	m6	1555	0	1659	58	0
18	M7	1415	0	1421	66	0
18	m7	1227	0	1236	55	0
19	M8	1441	0	1543	69	0
19	m8	1441	0	1543	78	0
20	M9	1474	0	1567	50	0
20	m9	1521	0	1617	54	0
21	N0	1445	0	1487	60	0
21	n0	1445	0	1487	54	0
22	N1	1276	0	1323	76	0
22	n1	1276	0	1323	67	0
23	N2	796	0	812	25	0
23	n2	778	0	791	33	0
24	N3	1003	0	1048	48	0
24	n3	1003	0	1048	41	0
25	N4	699	0	640	16	0
26	N5	964	0	1025	44	0
26	n5	959	0	1023	48	0
27	N6	993	0	1081	41	0
27	n6	993	0	1081	51	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	N7	1092	0	1155	61	0
28	n7	1092	0	1155	51	0
29	N8	1173	0	1215	66	0
29	n8	1173	0	1215	62	0
30	N9	462	0	491	11	0
30	n9	462	0	491	24	0
31	O0	743	0	797	34	0
31	o0	767	0	816	28	0
32	O1	890	0	938	31	0
32	o1	890	0	938	35	0
33	O2	1020	0	1090	41	0
33	o2	1020	0	1090	40	0
34	O3	850	0	880	24	0
34	o3	850	0	880	31	0
35	O4	881	0	947	37	0
35	o4	881	0	947	40	0
36	O5	969	0	1078	48	0
36	o5	969	0	1078	56	0
37	O6	771	0	849	44	0
37	o6	771	0	849	37	0
38	O7	681	0	683	39	0
38	o7	681	0	684	34	0
39	O8	612	0	682	20	0
39	o8	612	0	682	21	0
40	O9	436	0	475	31	0
40	o9	436	0	475	25	0
41	Q0	417	0	456	25	0
41	q0	417	0	455	13	0
42	Q1	233	0	284	13	0
42	q1	233	0	284	5	0
43	Q2	847	0	915	28	0
43	q2	847	0	914	38	0
44	Q3	694	0	734	40	0
44	q3	694	0	734	26	0
45	2	36488	0	18357	1017	1
45	6	37060	0	18648	932	0
46	S0	1612	0	1623	97	0
46	s0	1612	0	1623	101	0
47	S1	1709	0	1784	140	0
47	s1	1722	0	1793	91	0
48	S2	1635	0	1723	86	0
48	s2	1635	0	1723	78	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	S3	1734	0	1817	73	0
49	s3	1728	0	1806	96	0
50	S4	2068	0	2154	92	0
50	s4	2068	0	2154	102	0
51	S5	1609	0	1675	109	0
51	s5	1609	0	1675	91	0
52	S6	1813	0	1905	77	0
52	s6	1755	0	1846	73	0
53	S7	1481	0	1572	79	0
53	s7	1491	0	1578	63	0
54	S8	1489	0	1525	73	0
54	s8	1471	0	1499	80	0
55	S9	1494	0	1573	88	0
55	s9	1494	0	1573	83	0
56	C0	772	0	727	40	0
56	c0	761	0	697	39	0
57	C1	1213	0	1257	51	0
57	c1	1138	0	1204	59	0
58	C2	890	0	887	44	0
58	c2	890	0	887	40	0
59	C3	1192	0	1255	42	0
59	c3	1192	0	1255	50	0
60	C4	891	0	883	48	0
60	c4	949	0	985	46	0
61	C5	977	0	1002	54	0
61	c5	1039	0	1050	52	0
62	C6	1105	0	1166	73	0
62	c6	1111	0	1171	51	0
63	C7	965	0	1027	59	0
63	c7	917	0	932	63	0
64	C8	1192	0	1222	64	0
64	c8	1192	0	1222	81	0
65	C9	1112	0	1124	63	0
65	c9	1112	0	1124	45	0
66	D0	855	0	917	49	0
66	d0	882	0	939	58	1
67	D1	684	0	672	35	0
67	d1	684	0	672	45	0
68	D2	1021	0	1060	60	0
68	d2	1021	0	1060	52	0
69	D3	1121	0	1196	56	0
69	d3	1121	0	1196	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
70	D4	1073	0	1132	44	0
70	d4	1065	0	1128	52	0
71	D5	563	0	603	48	0
71	d5	558	0	598	32	0
72	D6	769	0	815	59	0
72	d6	769	0	814	55	0
73	D7	610	0	633	27	0
73	d7	610	0	633	34	0
74	D8	497	0	535	36	0
74	d8	497	0	535	25	0
75	D9	443	0	433	31	0
75	d9	443	0	431	28	0
76	E0	475	0	525	23	0
76	e0	491	0	542	29	0
77	E1	566	0	604	29	0
77	e1	575	0	617	35	0
78	SR	2441	0	2393	104	0
78	sR	2441	0	2393	104	0
79	SM	1104	0	996	50	0
79	sM	923	0	868	45	0
80	m2	750	0	167	15	0
81	n4	1044	0	1082	34	0
82	p0	1077	0	1041	37	0
83	p1	235	0	51	1	0
84	1	588	0	0	0	0
84	2	142	0	0	0	0
84	3	19	0	0	0	0
84	4	23	0	0	0	0
84	5	750	0	0	0	0
84	6	263	0	0	0	0
84	7	30	0	0	0	0
84	8	20	0	0	0	0
84	C1	1	0	0	0	0
84	C3	1	0	0	0	0
84	C8	1	0	0	0	0
84	D3	5	0	0	0	0
84	L2	5	0	0	0	0
84	L3	3	0	0	0	0
84	L4	6	0	0	0	0
84	L5	1	0	0	0	0
84	L7	1	0	0	0	0
84	L8	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	L9	1	0	0	0	0
84	M0	4	0	0	0	0
84	M3	5	0	0	0	0
84	M5	5	0	0	0	0
84	M6	1	0	0	0	0
84	M7	5	0	0	0	0
84	M8	1	0	0	0	0
84	N0	4	0	0	0	0
84	N1	2	0	0	0	0
84	N3	4	0	0	0	0
84	N4	1	0	0	0	0
84	N5	1	0	0	0	0
84	N8	3	0	0	0	0
84	O2	4	0	0	0	0
84	O3	1	0	0	0	0
84	O4	3	0	0	0	0
84	O6	1	0	0	0	0
84	O7	3	0	0	0	0
84	Q1	1	0	0	0	0
84	Q2	4	0	0	0	0
84	S1	1	0	0	0	0
84	S2	1	0	0	0	0
84	S3	1	0	0	0	0
84	S4	1	0	0	0	0
84	c1	1	0	0	0	0
84	c3	6	0	0	0	0
84	c4	1	0	0	0	0
84	c8	3	0	0	0	0
84	d1	2	0	0	0	0
84	d2	1	0	0	0	0
84	d3	5	0	0	0	0
84	d5	1	0	0	0	0
84	d6	3	0	0	0	0
84	d7	1	0	0	0	0
84	d9	1	0	0	0	0
84	l2	5	0	0	0	0
84	l3	11	0	0	0	0
84	l4	2	0	0	0	0
84	l5	6	0	0	0	0
84	l6	2	0	0	0	0
84	l7	3	0	0	0	0
84	l8	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	l9	8	0	0	0	0
84	m0	2	0	0	0	0
84	m3	4	0	0	0	0
84	m4	6	0	0	0	0
84	m5	3	0	0	0	0
84	m6	8	0	0	0	0
84	m7	7	0	0	0	0
84	m8	4	0	0	0	0
84	m9	2	0	0	0	0
84	n0	7	0	0	0	0
84	n1	2	0	0	0	0
84	n3	2	0	0	0	0
84	n5	3	0	0	0	0
84	n8	3	0	0	0	0
84	n9	1	0	0	0	0
84	o1	1	0	0	0	0
84	o2	3	0	0	0	0
84	o3	2	0	0	0	0
84	o4	2	0	0	0	0
84	q0	1	0	0	0	0
84	q1	2	0	0	0	0
84	q2	7	0	0	0	0
84	q3	3	0	0	0	0
84	s0	1	0	0	0	0
84	s2	2	0	0	0	0
84	s3	1	0	0	0	0
84	s4	1	0	0	0	0
84	s5	3	0	0	0	0
84	s6	1	0	0	0	0
84	sR	1	0	0	0	0
85	1	496	0	624	28	0
85	2	93	0	117	9	0
85	3	31	0	39	2	0
85	4	31	0	39	9	0
85	5	868	0	1092	54	0
85	6	403	0	507	27	0
85	7	93	0	117	11	0
85	8	62	0	78	16	0
85	L3	31	0	39	2	0
85	l3	31	0	39	3	0
86	D6	1	0	0	0	0
86	D7	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	D9	1	0	0	0	0
86	E1	1	0	0	0	0
86	O4	1	0	0	0	0
86	O7	1	0	0	0	0
86	Q0	1	0	0	0	0
86	Q2	1	0	0	0	0
86	Q3	1	0	0	0	0
86	d6	1	0	0	0	0
86	d7	1	0	0	0	0
86	d9	1	0	0	0	0
86	e1	1	0	0	0	0
86	o4	1	0	0	0	0
86	o7	1	0	0	0	0
86	q0	1	0	0	0	0
86	q2	1	0	0	0	0
86	q3	1	0	0	0	0
87	1	473	0	0	38	0
87	2	111	0	0	2	0
87	3	15	0	0	0	0
87	4	5	0	0	0	0
87	5	514	0	0	34	0
87	6	224	0	0	8	0
87	7	33	0	0	2	0
87	8	11	0	0	1	0
87	C9	2	0	0	0	0
87	D0	1	0	0	0	0
87	D3	1	0	0	0	0
87	L2	1	0	0	0	0
87	L3	7	0	0	2	0
87	L4	2	0	0	0	0
87	L5	2	0	0	1	0
87	M0	1	0	0	0	0
87	M3	2	0	0	0	0
87	M5	3	0	0	0	0
87	M6	6	0	0	0	0
87	M7	5	0	0	0	0
87	N0	4	0	0	0	0
87	N1	3	0	0	1	0
87	N3	5	0	0	3	0
87	N4	2	0	0	1	0
87	N5	2	0	0	0	0
87	N8	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	N9	2	0	0	0	0
87	O2	2	0	0	0	0
87	O4	1	0	0	0	0
87	O7	1	0	0	0	0
87	Q1	1	0	0	2	0
87	Q2	1	0	0	0	0
87	S1	1	0	0	0	0
87	S3	3	0	0	0	0
87	S4	1	0	0	0	0
87	S8	1	0	0	0	0
87	SR	2	0	0	0	0
87	c3	5	0	0	0	0
87	c6	1	0	0	0	0
87	c8	3	0	0	1	0
87	c9	5	0	0	0	0
87	d3	5	0	0	0	0
87	d5	3	0	0	0	0
87	d6	3	0	0	0	0
87	d9	2	0	0	0	0
87	e1	1	0	0	0	0
87	l2	7	0	0	0	0
87	l3	6	0	0	0	0
87	l5	5	0	0	0	0
87	l9	3	0	0	1	0
87	m0	1	0	0	1	0
87	m4	1	0	0	0	0
87	m5	2	0	0	0	0
87	m6	8	0	0	0	0
87	m7	4	0	0	1	0
87	m9	3	0	0	0	0
87	n0	4	0	0	1	0
87	n1	2	0	0	0	0
87	n3	2	0	0	0	0
87	n4	1	0	0	0	0
87	n5	2	0	0	1	0
87	n6	1	0	0	0	0
87	n8	4	0	0	0	0
87	n9	1	0	0	0	0
87	o0	1	0	0	0	0
87	o1	2	0	0	0	0
87	o2	4	0	0	0	0
87	o4	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	q0	1	0	0	0	0
87	q2	2	0	0	0	0
87	q3	3	0	0	0	0
87	s4	1	0	0	0	0
87	s5	1	0	0	0	0
87	s7	1	0	0	0	0
87	sR	1	0	0	0	0
All	All	404238	0	298720	11710	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (11710) 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)
51:S5:21:THR:C	51:S5:22:PRO:N	1.72	1.47
45:2:1755:A:C2'	45:2:1756:A:H5'	1.74	1.17
45:2:1755:A:H2'	45:2:1756:A:C5'	1.76	1.16
12:m0:76:MET:HE1	12:m0:148:VAL:HA	1.26	1.15
54:s8:83:TYR:H	54:s8:101:ILE:HG21	1.07	1.11
45:2:74:U:H1'	45:2:75:U:H5'	1.33	1.09
1:1:2256:A:N1	45:2:1756:A:H8	1.51	1.07
45:2:1755:A:H4'	45:2:1755:A:OP1	1.51	1.07
5:L3:89:VAL:HG21	5:L3:195:ALA:HB1	1.36	1.05
5:l3:296:THR:HG22	5:l3:298:PHE:H	1.21	1.01
1:1:1481:A:O2'	1:1:1858:A:N3	1.92	0.99
1:5:1580:A:H5'	1:5:2522:G:H21	1.25	0.99
71:D5:93:SER:HB3	71:D5:100:ILE:HB	1.43	0.98
1:1:2256:A:N1	45:2:1756:A:C8	2.30	0.98
27:n6:71:SER:HB3	27:n6:83:ASP:HB2	1.45	0.97
51:S5:94:THR:HG22	51:S5:114:ILE:HG13	1.48	0.96
51:s5:94:THR:HG22	51:s5:114:ILE:HG13	1.47	0.96
61:c5:130:ARG:NH2	79:sM:65:THR:O	2.00	0.95
1:1:1362:G:H4'	9:L7:159:GLN:O	1.65	0.95
1:5:2393:G:H4'	5:l3:252:ILE:HD12	1.49	0.94
45:6:895:G:H1	45:6:917:U:H3	1.13	0.94
1:1:1352:A:H1'	1:1:1353:U:H5''	1.50	0.94
1:5:1944:U:H3	1:5:2104:A:H61	1.10	0.94
1:5:640:U:OP1	29:n8:21:ARG:NH2	2.00	0.94
45:2:700:C:H42	45:2:738:G:H1	1.16	0.93
5:L3:232:ARG:NH1	5:L3:269:GLN:O	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S1:144:ARG:HB3	47:S1:208:GLN:HB3	1.47	0.93
47:s1:51:SER:HB3	47:s1:57:ALA:H	1.33	0.93
1:1:2836:C:H5	1:1:2852:C:H42	1.16	0.92
71:d5:85:LYS:HG3	71:d5:86:GLU:H	1.32	0.92
1:5:3214:U:OP2	15:m4:128:ARG:NH2	2.03	0.92
5:l3:90:VAL:HG22	5:l3:104:THR:HG23	1.50	0.92
63:c7:88:VAL:HG12	63:c7:89:SER:H	1.33	0.92
1:1:544:C:O2	1:1:548:G:N2	2.02	0.92
48:S2:38:VAL:HG13	48:S2:39:THR:HG23	1.52	0.92
6:l4:122:THR:HG22	6:l4:235:LEU:HB2	1.52	0.92
7:l5:17:GLN:HE22	22:n1:22:HIS:H	1.14	0.92
45:2:169:A:H5''	52:S6:176:GLN:HG2	1.53	0.91
45:2:1755:A:C2	45:2:1756:A:H4'	2.06	0.91
15:m4:48:GLY:HA3	15:m4:53:VAL:HB	1.51	0.91
64:c8:28:ILE:HD11	64:c8:54:LEU:HA	1.53	0.90
19:M8:158:HIS:H	19:M8:186:VAL:HG12	1.35	0.90
1:5:284:A:OP2	43:q2:41:ARG:NH1	2.04	0.90
31:o0:34:LEU:HD23	31:o0:59:TYR:HB3	1.54	0.90
54:s8:83:TYR:N	54:s8:101:ILE:HG21	1.86	0.90
1:1:2443:A:N6	1:1:2504:U:O4	2.05	0.89
5:l3:41:VAL:HA	5:l3:185:GLY:HA3	1.55	0.89
12:m0:87:LEU:HD23	12:m0:138:VAL:HG13	1.53	0.89
8:l6:31:ARG:NH1	34:o3:107:ILE:O	2.06	0.89
20:M9:173:ARG:NH2	45:2:853:G:N7	2.20	0.89
73:D7:50:ALA:HB2	73:D7:71:ALA:HB2	1.55	0.89
1:5:1103:A:O2'	1:5:1104:G:H5'	1.73	0.89
24:n3:23:MET:HE3	24:n3:100:GLY:HA3	1.55	0.89
45:2:1291:G:H22	45:2:1324:G:H1	1.20	0.88
58:C2:62:LEU:HB3	58:C2:75:VAL:HG11	1.55	0.88
54:s8:34:ALA:HB2	54:s8:56:ARG:HD3	1.56	0.88
1:1:58:G:H4'	16:M5:155:VAL:HG12	1.55	0.88
1:1:640:U:OP1	29:N8:21:ARG:NH2	2.04	0.88
16:m5:42:PRO:HG3	16:m5:61:ILE:HG13	1.53	0.88
45:6:1588:G:H1	45:6:1608:U:H3	1.21	0.88
55:s9:109:LEU:HB2	55:s9:146:PHE:HB3	1.55	0.88
47:S1:179:SER:HB3	47:S1:183:GLN:HB2	1.54	0.88
45:6:793:A:H3'	45:6:794:U:H5'	1.55	0.87
6:L4:204:GLY:O	6:L4:246:ARG:NH1	2.07	0.87
17:M6:112:TYR:HA	17:M6:115:LYS:HB2	1.55	0.87
1:5:2736:A:OP1	22:n1:92:ARG:NH1	2.07	0.87
1:5:3182:G:OP1	17:m6:160:ARG:NH2	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1029:U:OP2	72:d6:12:LYS:NZ	2.07	0.87
1:1:1844:C:H2'	1:1:1845:G:H5''	1.57	0.87
45:2:1034:C:HO2'	68:D2:2:THR:N	1.73	0.87
7:15:270:LYS:HG3	7:15:273:ARG:HB3	1.56	0.87
45:6:475:A:OP2	55:s9:126:ARG:NH1	2.06	0.87
45:6:632:U:H4'	69:d3:11:SER:HB3	1.54	0.87
37:O6:36:ARG:HE	37:O6:36:ARG:H	1.15	0.87
48:s2:109:GLY:HA2	48:s2:139:ILE:HG22	1.54	0.87
55:s9:169:PRO:HD2	55:s9:174:ARG:HE	1.40	0.87
72:D6:82:ARG:O	72:D6:84:VAL:HG22	1.75	0.87
2:7:76:A:O2'	21:n0:50:LYS:NZ	2.06	0.87
1:5:115:A:OP1	16:m5:49:ARG:NH2	2.08	0.87
63:c7:47:ARG:NH1	63:c7:48:ASN:OD1	2.09	0.86
45:2:868:G:H1	45:2:960:U:H3	1.22	0.86
18:M7:23:ARG:O	18:M7:86:LYS:NZ	2.09	0.86
1:5:2818:U:H5'	1:5:2818:U:H6	1.39	0.86
1:5:1778:G:H22	1:5:2101:C:H41	1.24	0.86
42:q1:2:ARG:NH1	45:6:1773:C:OP2	2.08	0.86
29:n8:116:GLY:O	29:n8:137:LYS:NZ	2.08	0.85
73:d7:35:VAL:HG11	73:d7:63:LEU:HD21	1.59	0.85
1:5:1639:C:OP2	35:o4:74:ARG:NH2	2.09	0.85
45:6:1438:G:O2'	49:s3:179:GLN:NE2	2.09	0.85
1:5:1152:G:H22	1:5:1200:A:H61	1.22	0.85
49:s3:105:MET:HG2	49:s3:122:VAL:HG21	1.57	0.85
1:5:2201:G:H21	4:l2:224:THR:HG21	1.41	0.85
1:5:2836:C:H5	1:5:2852:C:H42	1.20	0.85
60:c4:12:GLN:HE22	60:c4:111:ARG:HG3	1.39	0.85
1:1:1095:U:H3	22:N1:127:GLN:HG2	1.42	0.85
1:5:1824:U:OP1	39:o8:3:ARG:NH2	2.08	0.85
45:2:38:C:H2'	45:2:39:A:H5'	1.58	0.85
45:2:1756:A:C2	45:2:1756:A:OP1	2.30	0.85
45:2:1756:A:OP1	45:2:1756:A:C4	2.30	0.85
1:5:3068:U:OP2	20:m9:62:ARG:NH2	2.09	0.85
17:M6:62:THR:H	17:M6:69:GLY:HA3	1.42	0.84
1:1:297:G:O6	16:M5:12:ARG:NH1	2.10	0.84
45:6:268:C:OP1	52:s6:176:GLN:NE2	2.09	0.84
61:C5:19:GLY:N	64:C8:93:THR:O	2.09	0.84
32:o1:44:MET:HE3	32:o1:77:ARG:HB2	1.56	0.84
45:6:513:U:OP1	55:s9:133:HIS:NE2	2.09	0.84
45:6:868:G:H1	45:6:960:U:H3	1.25	0.84
52:s6:10:ASN:HB3	52:s6:128:THR:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:S6:26:VAL:HG21	52:S6:40:ALA:HB1	1.56	0.84
45:2:1390:U:OP2	63:C7:49:LYS:NZ	2.10	0.84
78:sR:42:LEU:HD21	78:sR:82:SER:HB3	1.59	0.84
85:7:231:LLL:H13	85:7:231:LLL:H122	1.42	0.84
45:2:1290:U:H2'	45:2:1291:G:C8	2.12	0.84
45:2:1424:A:H1'	48:S2:92:ALA:HB1	1.60	0.84
80:m2:105:UNK:HA	80:m2:142:UNK:HA	1.59	0.84
1:1:617:G:H4'	18:M7:171:ARG:HH12	1.43	0.84
1:5:2257:C:H2'	1:5:2258:U:O4'	1.77	0.84
45:2:1755:A:H2'	45:2:1756:A:H5'	0.88	0.83
50:S4:194:THR:OG1	50:S4:211:LYS:O	1.94	0.83
12:m0:77:THR:O	12:m0:81:GLY:N	2.11	0.83
45:6:563:U:H4'	76:e0:17:GLN:HE21	1.40	0.83
64:c8:91:ASP:HB3	64:c8:94:ASP:HB3	1.60	0.83
61:c5:130:ARG:HD2	79:sM:74:LYS:HE3	1.60	0.83
61:c5:111:MET:HG2	64:c8:119:ILE:HD11	1.60	0.83
45:2:1228:G:H22	58:C2:67:THR:HB	1.42	0.83
1:5:250:U:H2'	1:5:251:G:C2	2.14	0.83
7:l5:68:THR:HG22	7:l5:70:THR:H	1.44	0.83
5:L3:206:ASP:OD1	5:L3:206:ASP:N	2.10	0.83
1:5:1826:C:H41	85:5:4162:LLL:H312	1.44	0.83
65:c9:37:VAL:HG11	65:c9:100:ILE:HD11	1.58	0.83
66:d0:51:VAL:HG21	66:d0:93:LEU:HA	1.60	0.83
45:6:901:G:N2	60:c4:54:GLU:OE1	2.11	0.83
47:S1:176:VAL:HG13	47:S1:184:LEU:HD11	1.61	0.83
65:C9:111:ILE:HG23	65:C9:113:ILE:HG12	1.60	0.83
4:l2:242:ARG:HD3	4:l2:246:LEU:HD21	1.61	0.82
59:c3:23:PRO:HB2	59:c3:25:TRP:CD1	2.14	0.82
45:2:1370:U:H3'	45:2:1371:A:H5''	1.61	0.82
50:S4:62:LYS:HD2	50:S4:66:MET:HE2	1.59	0.82
1:5:837:A:OP2	44:q3:4:ARG:NH1	2.10	0.82
13:m1:82:ARG:HD2	13:m1:112:LEU:HB2	1.61	0.82
45:2:697:C:H5'	53:S7:105:THR:HB	1.60	0.82
54:S8:103:GLN:HE21	54:S8:166:TYR:HE1	1.22	0.82
45:6:1636:C:H4'	45:6:1637:C:H5'	1.58	0.82
82:p0:9:ALA:HA	82:p0:12:PHE:HB2	1.59	0.82
45:6:1799:U:H4'	45:6:1800:A:H2'	1.61	0.82
1:5:3164:C:N4	1:5:3286:G:O6	2.11	0.82
45:6:393:C:OP2	54:s8:2:GLY:N	2.13	0.82
59:c3:65:VAL:HG13	59:c3:66:ILE:HG23	1.60	0.82
45:2:780:A:H8	70:D4:8:ARG:HB3	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:141:C:O2	16:m5:112:ASN:ND2	2.13	0.82
45:2:1735:U:H2'	45:2:1736:G:H8	1.45	0.82
55:s9:133:HIS:HD2	55:s9:162:SER:HB2	1.44	0.82
1:1:837:A:OP2	44:Q3:4:ARG:NH1	2.12	0.81
1:1:2194:G:N7	87:1:4161:HOH:O	2.12	0.81
38:o7:25:ARG:HD2	40:o9:51:ILE:HB	1.61	0.81
45:6:235:G:H2'	45:6:236:A:H8	1.43	0.81
55:s9:90:LYS:HG3	55:s9:95:TYR:HB3	1.62	0.81
1:5:776:U:O4	1:5:2719:U:N3	2.12	0.81
6:l4:144:LYS:NZ	6:l4:173:GLY:O	2.14	0.81
55:s9:163:PRO:HB3	55:s9:169:PRO:HA	1.60	0.81
6:L4:122:THR:HG22	6:L4:235:LEU:HB2	1.61	0.81
63:c7:43:SER:HB3	63:c7:46:LEU:HB2	1.61	0.81
22:N1:14:MET:HE1	22:N1:55:LYS:HB2	1.63	0.81
64:C8:126:ARG:HG2	64:C8:133:VAL:HA	1.61	0.81
22:n1:122:GLN:HB3	22:n1:124:VAL:HG23	1.61	0.81
2:7:44:C:OP2	13:m1:137:ARG:NH2	2.12	0.81
55:S9:30:LEU:HD21	55:S9:102:GLU:HG3	1.63	0.81
1:5:1014:U:H2'	1:5:1015:U:H5''	1.63	0.81
45:2:57:G:OP1	70:D4:112:LYS:NZ	2.13	0.81
12:m0:36:LEU:HD21	12:m0:69:ARG:HD3	1.62	0.81
6:L4:292:SER:OG	6:L4:293:SER:N	2.13	0.81
36:O5:85:THR:HG22	36:O5:87:ALA:H	1.43	0.81
5:l3:143:GLY:HA2	5:l3:146:ARG:HD2	1.61	0.81
45:6:30:G:OP1	69:d3:126:LYS:NZ	2.14	0.81
1:1:1560:G:N2	1:1:1579:C:O2	2.14	0.81
46:S0:24:LEU:HG	46:S0:45:VAL:HG11	1.62	0.81
45:6:7:G:N7	48:s2:205:ARG:NH2	2.29	0.81
46:S0:120:LEU:HD11	46:S0:144:ILE:HG13	1.63	0.80
1:5:595:G:H1	1:5:609:G:H5''	1.45	0.80
60:c4:20:TYR:HB3	60:c4:27:PHE:HB2	1.64	0.80
11:L9:105:GLU:HB2	11:L9:110:LYS:H	1.45	0.80
45:2:511:A:OP2	55:S9:176:ASN:ND2	2.14	0.80
19:M8:143:PRO:HB2	19:M8:146:SER:HB2	1.63	0.80
45:2:190:C:N4	45:2:196:G:O6	2.14	0.80
45:2:1756:A:O2'	45:2:1757:G:C5'	2.30	0.80
6:l4:339:LEU:HA	6:l4:342:LYS:HB2	1.64	0.80
78:sR:169:ILE:HG13	78:sR:181:TRP:HB2	1.62	0.80
47:s1:100:PHE:HB3	47:s1:181:LEU:HD11	1.61	0.80
51:S5:64:VAL:HG13	51:S5:65:ARG:HD2	1.63	0.80
1:5:1381:A:OP1	6:l4:197:ARG:NH1	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:2434:U:H4'	1:5:2435:G:H5''	1.64	0.80
18:m7:122:ALA:HB3	18:m7:143:PRO:HB2	1.62	0.80
45:2:1756:A:N3	45:2:1756:A:P	2.54	0.80
60:C4:115:ILE:HD11	72:D6:44:ILE:HD13	1.61	0.80
2:7:9:C:OP1	22:n1:28:SER:OG	2.00	0.80
39:o8:26:LYS:NZ	39:o8:28:ASN:OD1	2.15	0.80
82:p0:33:VAL:HG12	82:p0:34:SER:H	1.44	0.80
45:6:161:U:OP2	52:s6:87:ARG:NH2	2.14	0.80
1:1:2303:A:OP1	42:Q1:23:ARG:NH2	2.14	0.80
45:2:1783:C:H2'	45:2:1784:C:H6	1.44	0.80
49:S3:217:ILE:HG23	49:S3:218:LEU:H	1.47	0.80
19:m8:170:ARG:HA	19:m8:174:ARG:HD2	1.62	0.80
40:o9:5:LYS:HD3	40:o9:13:MET:HE1	1.63	0.80
45:2:1535:U:O2'	45:2:1536:G:N3	2.15	0.80
27:n6:55:GLU:HB2	27:n6:108:LYS:HB2	1.64	0.80
45:6:4:C:O2'	55:s9:17:ARG:NH1	2.14	0.80
54:s8:140:GLU:HA	54:s8:143:TRP:HB2	1.62	0.80
81:n4:39:LEU:HD12	81:n4:44:LYS:HG3	1.62	0.80
70:d4:12:VAL:HG13	70:d4:23:PHE:HB3	1.63	0.79
45:2:867:G:OP2	59:C3:3:ARG:NH1	2.14	0.79
45:2:1207:C:H42	45:2:1456:C:H41	1.27	0.79
1:1:829:U:H3	1:1:895:A:H62	1.31	0.79
55:s9:171:ARG:HA	55:s9:174:ARG:HB2	1.62	0.79
1:1:1563:C:O2	1:1:1577:G:N2	2.16	0.79
24:n3:68:GLU:OE1	24:n3:68:GLU:N	2.16	0.79
1:1:1222:G:HO2'	1:1:1285:G:H1	1.28	0.79
6:L4:338:LYS:O	6:L4:340:GLY:N	2.15	0.79
3:8:65:A:OP2	85:8:221:LLL:N12	2.15	0.79
10:l8:81:THR:HG21	10:l8:181:LYS:HE3	1.64	0.79
47:s1:123:ALA:HB2	47:s1:165:ARG:HG2	1.62	0.79
38:O7:21:ARG:NH2	38:O7:41:ALA:O	2.16	0.79
1:5:2996:U:H4'	1:5:2996:U:OP1	1.82	0.79
68:d2:15:ASN:HD21	68:d2:71:LYS:HG3	1.45	0.79
60:C4:81:VAL:HG22	60:C4:115:ILE:HB	1.65	0.79
45:6:1229:G:O2'	45:6:1255:G:N2	2.16	0.79
16:M5:110:ALA:HB1	16:M5:113:LEU:HD23	1.65	0.79
45:2:142:G:H22	45:2:173:A:H2	1.29	0.79
58:C2:132:GLU:HA	58:C2:135:MET:HB2	1.64	0.79
1:1:129:U:H3	1:1:139:G:H1	1.30	0.78
71:D5:60:VAL:HG13	71:D5:101:TYR:HB2	1.65	0.78
1:5:13:A:H4'	26:n5:39:LYS:HG3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:o1:79:ARG:HA	32:o1:89:LEU:HD12	1.65	0.78
3:8:10:A:H2'	3:8:11:C:C6	2.16	0.78
45:6:169:A:H5''	52:s6:176:GLN:HG2	1.64	0.78
45:6:511:A:OP2	55:s9:176:ASN:ND2	2.16	0.78
14:M3:14:PHE:HB3	14:M3:18:TRP:CD1	2.19	0.78
47:S1:129:THR:HA	47:S1:177:GLN:HA	1.63	0.78
1:5:916:G:OP1	87:5:4261:HOH:O	2.01	0.78
1:5:3194:C:O2	1:5:3197:G:N2	2.13	0.78
45:6:1097:U:H4'	45:6:1098:U:H5'	1.66	0.78
45:2:1064:G:O2'	47:S1:204:ILE:O	2.00	0.78
56:c0:35:ILE:HG22	56:c0:37:THR:H	1.48	0.78
5:L3:185:GLY:O	5:L3:191:LYS:NZ	2.12	0.78
5:L3:230:THR:HA	5:L3:235:THR:HG22	1.64	0.78
71:D5:56:THR:H	71:D5:103:ARG:HH11	1.30	0.78
78:SR:19:TRP:HB2	78:SR:38:ARG:HG3	1.66	0.78
5:l3:113:GLU:HG2	5:l3:176:ALA:HB2	1.65	0.78
45:2:149:C:O2'	52:S6:132:ARG:NH1	2.16	0.78
5:l3:284:ARG:NH2	5:l3:295:ALA:O	2.17	0.78
49:s3:55:THR:HG21	49:s3:90:ARG:HA	1.66	0.78
1:5:2920:U:OP1	87:5:4262:HOH:O	2.01	0.78
18:m7:25:SER:O	18:m7:29:THR:HG23	1.84	0.78
77:e1:90:LYS:H	77:e1:90:LYS:HD3	1.47	0.78
45:2:1459:C:OP1	64:C8:126:ARG:NH2	2.16	0.78
50:S4:197:HIS:HB3	50:S4:209:HIS:HD2	1.47	0.78
1:5:155:G:H5''	1:5:156:G:C8	2.19	0.78
45:6:1552:U:OP2	61:c5:43:ARG:NH2	2.16	0.78
1:1:1709:C:OP1	35:O4:83:ASN:ND2	2.15	0.78
53:s7:9:LEU:HD11	53:s7:17:GLU:HB3	1.66	0.78
45:2:1035:G:OP2	59:C3:9:LYS:NZ	2.17	0.78
1:5:86:G:OP2	85:5:4155:LLL:O23	2.01	0.78
12:m0:38:LYS:HG2	12:m0:41:ALA:HB2	1.64	0.78
33:o2:100:ILE:O	33:o2:105:ARG:NH1	2.16	0.78
45:6:454:U:H5''	45:6:455:C:H5	1.47	0.78
45:6:1600:A:H4'	45:6:1601:G:OP1	1.82	0.78
78:sR:283:LYS:HG3	78:sR:284:ALA:H	1.48	0.78
1:1:2682:C:OP1	79:SM:27:LYS:NZ	2.16	0.77
45:6:952:A:OP1	59:c3:94:LYS:NZ	2.17	0.77
4:l2:118:GLU:HG3	4:l2:126:LEU:HD21	1.66	0.77
45:6:518:A:N6	45:6:533:U:O4	2.17	0.77
78:SR:153:GLN:HG2	78:SR:202:LEU:H	1.49	0.77
50:s4:11:ARG:HH11	50:s4:20:LEU:HD22	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2535:A:H61	1:1:2544:U:H3	1.30	0.77
31:O0:24:THR:HG22	31:O0:91:SER:HB3	1.66	0.77
45:2:478:A:O2'	55:S9:124:HIS:ND1	2.16	0.77
68:D2:82:LYS:O	68:D2:84:GLY:N	2.16	0.77
9:17:228:SER:HA	9:17:232:ARG:HH22	1.50	0.77
85:1:3999:LLL:H211	85:1:3999:LLL:H322	1.31	0.77
11:L9:90:MET:HB3	11:L9:181:VAL:HA	1.67	0.77
22:n1:11:THR:HG22	22:n1:14:MET:HE3	1.65	0.77
1:1:1845:G:H5'	1:1:1845:G:H8	1.50	0.77
4:L2:204:MET:HE2	4:L2:209:HIS:HB2	1.63	0.77
40:O9:43:ASN:HB3	40:O9:46:ARG:HB2	1.65	0.77
45:2:1349:G:O2'	45:2:1379:C:N3	2.18	0.77
45:2:1756:A:O2'	45:2:1757:G:H5'	1.83	0.77
54:S8:82:VAL:HB	54:S8:196:LEU:HD21	1.65	0.77
12:m0:38:LYS:NZ	12:m0:45:GLU:OE2	2.15	0.77
1:1:687:U:OP2	14:M3:36:ARG:NH2	2.17	0.77
20:M9:23:TRP:CH2	20:M9:25:ASP:HB3	2.19	0.77
28:N7:53:VAL:HA	28:N7:57:HIS:HD2	1.50	0.77
45:2:1046:G:OP1	47:S1:157:GLN:NE2	2.17	0.77
45:2:1178:G:O6	45:2:1461:C:N4	2.17	0.77
76:E0:55:ARG:HD2	76:E0:58:PRO:HG3	1.67	0.77
12:m0:169:LYS:H	12:m0:169:LYS:HD3	1.47	0.77
20:m9:102:LEU:HD22	20:m9:138:LEU:HD12	1.66	0.77
45:6:566:C:O2	76:e0:13:LYS:NZ	2.16	0.77
58:c2:61:VAL:HB	58:c2:89:ILE:HG22	1.67	0.77
23:N2:99:LYS:HB2	23:N2:102:GLU:HB2	1.66	0.77
1:5:542:G:H1	1:5:549:U:H3	1.33	0.77
4:12:117:GLU:OE1	4:12:121:GLY:N	2.15	0.77
45:2:1552:U:O4	61:C5:40:ARG:NH2	2.17	0.77
1:5:2177:G:OP2	4:12:128:ARG:NH1	2.17	0.77
21:n0:26:ARG:HH11	22:n1:150:THR:HG21	1.48	0.77
1:1:1750:A:H4'	1:1:1751:G:H5'	1.65	0.76
68:D2:101:TYR:HA	68:D2:113:HIS:HE1	1.50	0.76
73:D7:54:VAL:HG23	73:D7:63:LEU:HB3	1.66	0.76
81:n4:113:LYS:NZ	45:6:280:U:OP2	2.17	0.76
37:o6:79:SER:HB3	37:o6:82:ARG:HG3	1.67	0.76
1:1:2392:C:O2'	5:L3:266:ARG:NH2	2.16	0.76
13:M1:40:LEU:HD12	13:M1:125:MET:HE1	1.68	0.76
62:C6:127:LYS:NZ	62:C6:131:GLY:O	2.18	0.76
17:m6:61:ALA:HA	17:m6:70:PRO:HD2	1.66	0.76
12:M0:44:ASP:HB3	12:M0:185:ARG:HH11	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:N1:6:GLY:H	22:N1:9:SER:HB2	1.49	0.76
45:2:104:A:OP2	45:2:308:C:N4	2.18	0.76
47:S1:82:ARG:HG2	47:S1:103:MET:HE2	1.67	0.76
49:S3:117:ARG:HE	79:SM:122:GLU:HB3	1.48	0.76
1:5:1807:G:H5'	28:n7:135:ARG:HH11	1.50	0.76
12:m0:76:MET:HE2	12:m0:76:MET:HA	1.66	0.76
45:6:340:U:H2'	45:6:341:A:C8	2.20	0.76
1:1:3057:U:H5'	1:1:3086:A:H61	1.50	0.76
5:L3:21:ARG:HG2	5:L3:269:GLN:HG2	1.65	0.76
14:M3:91:ARG:NH2	14:M3:97:VAL:O	2.18	0.76
45:2:1755:A:OP1	45:2:1755:A:C4'	2.30	0.76
55:S9:139:GLN:NE2	70:D4:63:GLN:OE1	2.18	0.76
1:5:3242:G:H5''	1:5:3245:A:C8	2.20	0.76
45:6:158:U:O2'	45:6:160:C:OP2	2.03	0.76
1:1:145:G:OP2	10:L8:193:LYS:NZ	2.18	0.76
1:1:243:G:OP1	36:O5:115:LYS:NZ	2.16	0.76
1:1:2736:A:OP1	22:N1:92:ARG:NH1	2.19	0.76
24:N3:129:VAL:O	24:N3:133:SER:OG	2.03	0.76
45:2:1280:C:H2'	45:2:1281:G:H8	1.49	0.76
45:2:1339:C:O2'	45:2:1341:A:N7	2.16	0.76
1:5:14:U:O2	26:n5:42:ARG:NH1	2.18	0.76
1:5:980:A:C2	1:5:1105:A:H1'	2.21	0.76
82:p0:190:VAL:HB	82:p0:197:PHE:HB2	1.67	0.76
63:C7:102:VAL:HG13	63:C7:106:THR:HB	1.68	0.76
75:D9:4:GLU:HG2	75:D9:5:ASN:H	1.50	0.76
1:1:1320:C:O2	21:N0:115:ARG:NH2	2.19	0.76
45:2:487:G:H1	45:2:500:C:H42	1.33	0.76
1:5:441:U:H3'	1:5:442:G:H5''	1.67	0.76
1:5:2181:C:OP1	4:l2:193:ARG:NH2	2.18	0.76
66:d0:58:LEU:HD12	66:d0:88:LYS:HD2	1.66	0.76
5:L3:188:ILE:HD12	5:L3:189:SER:H	1.51	0.76
9:l7:178:ILE:HA	9:l7:183:ASP:HB3	1.67	0.76
10:l8:78:PHE:O	10:l8:79:GLN:NE2	2.17	0.76
11:l9:188:THR:OG1	11:l9:189:GLU:N	2.17	0.76
19:m8:158:HIS:H	19:m8:186:VAL:HG12	1.50	0.76
45:6:1695:G:H21	45:6:1706:C:H41	1.32	0.76
61:c5:18:ARG:HG2	64:c8:92:ILE:HA	1.67	0.76
16:M5:36:ILE:HG12	16:M5:64:VAL:HG23	1.66	0.76
45:2:1469:A:H4'	45:2:1541:G:H4'	1.66	0.76
45:2:1537:C:O2'	45:2:1540:G:O6	2.03	0.76
10:l8:26:LEU:HB3	28:n7:53:VAL:HG21	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:682:C:H4'	45:6:683:C:OP1	1.85	0.76
45:6:987:G:O6	85:6:2168:LLL:N32	2.19	0.76
1:1:893:C:OP2	87:1:4156:HOH:O	2.02	0.75
11:L9:43:VAL:HG12	11:L9:57:VAL:HG23	1.68	0.75
45:6:1370:U:H4'	45:6:1371:A:H4'	1.68	0.75
9:L7:143:THR:HG22	9:L7:241:LYS:HE3	1.68	0.75
53:S7:157:LYS:O	53:S7:160:GLN:NE2	2.18	0.75
57:C1:6:THR:O	57:C1:8:GLN:N	2.18	0.75
48:s2:101:VAL:HG22	48:s2:115:ILE:HG12	1.68	0.75
1:1:406:G:O6	85:1:3991:LLL:N12	2.19	0.75
1:1:1951:C:H42	1:1:2095:G:H1	1.34	0.75
1:1:2108:C:H1'	1:1:3344:A:C8	2.20	0.75
21:n0:77:VAL:HG11	21:n0:106:LEU:HG	1.69	0.75
54:s8:36:THR:HG21	54:s8:173:PRO:HB2	1.66	0.75
60:C4:20:TYR:HB3	60:C4:27:PHE:HB2	1.67	0.75
2:7:1:G:O2'	7:l5:270:LYS:HB3	1.87	0.75
20:m9:130:ASN:O	20:m9:130:ASN:ND2	2.18	0.75
65:c9:57:ARG:HB2	65:c9:57:ARG:HH11	1.50	0.75
1:1:309:U:OP1	37:O6:84:LYS:NZ	2.17	0.75
51:S5:117:THR:HG21	51:S5:194:LEU:HD12	1.67	0.75
72:D6:61:GLU:HG3	72:D6:63:ALA:H	1.51	0.75
19:M8:100:THR:HG23	19:M8:120:GLU:HB3	1.66	0.75
45:2:584:C:H1'	76:E0:18:THR:HG21	1.69	0.75
48:S2:144:TRP:O	68:D2:98:GLN:NE2	2.19	0.75
48:S2:175:GLY:HA3	55:S9:53:ARG:HH22	1.52	0.75
50:S4:57:ASN:HB2	50:S4:60:GLU:H	1.50	0.75
12:m0:14:ASN:OD1	87:m0:401:HOH:O	2.04	0.75
45:6:753:A:OP2	50:s4:187:ARG:NH1	2.19	0.75
1:1:420:G:N2	1:1:2385:G:OP2	2.18	0.75
14:M3:47:ALA:HB1	14:M3:48:PRO:HD2	1.68	0.75
1:5:440:A:H2	1:5:492:U:H3	1.33	0.75
1:5:501:A:H2'	1:5:502:U:C6	2.22	0.75
1:5:1239:C:H42	1:5:1249:G:H1	1.34	0.75
45:6:159:U:O2'	52:s6:87:ARG:NH1	2.19	0.75
4:L2:96:LEU:O	44:Q3:87:ARG:NH1	2.19	0.75
38:O7:14:LYS:HD2	40:O9:51:ILE:HD12	1.67	0.75
54:S8:47:ARG:NH2	54:S8:48:THR:O	2.19	0.75
1:5:824:C:H5''	4:l2:21:ARG:HD3	1.69	0.75
1:5:2854:U:OP2	12:m0:3:ARG:NH2	2.18	0.75
14:m3:28:GLN:OE1	16:m5:201:ARG:NH1	2.19	0.75
27:n6:112:ASP:HB3	27:n6:115:ARG:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s4:9:LEU:HB2	50:s4:30:ARG:HB2	1.69	0.75
63:c7:28:PHE:HA	63:c7:55:THR:HG21	1.67	0.75
1:1:1639:C:OP2	35:O4:74:ARG:NH2	2.20	0.75
32:O1:5:LYS:HB3	32:O1:89:LEU:HD21	1.68	0.75
45:2:505:A:N6	45:2:507:U:O4	2.19	0.75
45:2:1756:A:OP1	45:2:1756:A:C5	2.39	0.75
61:C5:52:LYS:HG3	61:C5:53:PRO:HD3	1.69	0.75
67:d1:64:GLU:HG3	73:d7:3:LEU:HG	1.68	0.75
76:e0:41:THR:HA	76:e0:45:VAL:HB	1.69	0.75
14:M3:50:PRO:HB3	36:O5:118:ILE:HD11	1.69	0.74
37:O6:4:LYS:HD2	37:O6:14:GLY:HA3	1.66	0.74
51:S5:42:LEU:HD22	51:S5:48:PHE:H	1.52	0.74
16:m5:115:VAL:O	16:m5:159:ARG:NH1	2.20	0.74
50:s4:159:THR:HG22	50:s4:173:ILE:HB	1.69	0.74
1:1:1298:C:O3'	41:Q0:113:ARG:NH1	2.19	0.74
45:2:127:G:N7	52:S6:202:ARG:NH2	2.35	0.74
46:S0:79:ARG:NH1	46:S0:164:ASN:O	2.20	0.74
58:C2:67:THR:HG22	58:C2:68:GLU:HG3	1.69	0.74
33:O2:81:ASP:O	33:O2:84:THR:OG1	2.05	0.74
63:C7:44:LYS:O	63:C7:48:ASN:ND2	2.20	0.74
1:5:2800:G:O6	29:n8:42:ARG:NH2	2.19	0.74
7:l5:111:GLN:HA	7:l5:116:ASP:HB3	1.70	0.74
45:6:1555:A:OP2	61:c5:47:ARG:NH2	2.20	0.74
55:s9:113:VAL:HG12	55:s9:119:ALA:HB2	1.68	0.74
46:S0:57:LEU:HD23	46:S0:177:LEU:HG	1.68	0.74
47:S1:137:ILE:HD11	47:S1:172:LEU:HB3	1.66	0.74
53:S7:111:LYS:HD3	53:S7:112:ARG:H	1.51	0.74
57:C1:108:PRO:HG3	57:C1:134:THR:HB	1.67	0.74
69:D3:24:TRP:HE3	69:D3:30:LYS:HD3	1.53	0.74
1:5:955:U:H2'	1:5:956:U:H6	1.52	0.74
5:l3:117:ARG:NH2	5:l3:176:ALA:O	2.20	0.74
54:s8:48:THR:OG1	54:s8:52:ASN:O	2.02	0.74
65:c9:105:LEU:HD13	65:c9:122:ARG:HD3	1.67	0.74
6:L4:26:PHE:HA	6:L4:127:ALA:HA	1.70	0.74
45:2:472:U:H5''	55:S9:11:THR:HG23	1.69	0.74
47:S1:123:ALA:HB2	47:S1:165:ARG:HG2	1.68	0.74
75:D9:4:GLU:O	75:D9:5:ASN:ND2	2.20	0.74
21:n0:167:ARG:NH1	87:n0:301:HOH:O	2.20	0.74
1:1:3335:A:OP1	85:1:3996:LLL:O52	2.04	0.74
52:S6:2:LYS:HB3	52:S6:108:VAL:HG23	1.69	0.74
6:l4:44:LYS:HB3	6:l4:47:ARG:HH11	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:513:U:OP1	55:S9:133:HIS:NE2	2.13	0.74
51:S5:216:GLU:OE2	51:S5:219:ARG:NH2	2.21	0.74
65:c9:114:VAL:HG12	65:c9:124:ILE:HA	1.69	0.74
1:1:2150:G:O2'	1:1:2189:U:OP1	2.06	0.74
45:2:1756:A:C4	45:2:1756:A:P	2.80	0.74
1:5:1863:G:N1	1:5:1866:C:OP2	2.20	0.74
1:5:2827:U:O4	85:5:4177:LLL:N12	2.20	0.74
16:m5:31:ARG:NH1	16:m5:124:ASP:OD1	2.21	0.74
45:6:1034:C:HO2'	68:d2:2:THR:N	1.86	0.74
24:N3:81:GLN:O	24:N3:98:ASN:ND2	2.21	0.74
27:N6:37:LYS:H	27:N6:37:LYS:HD3	1.52	0.74
45:2:1552:U:OP2	61:C5:43:ARG:NH2	2.21	0.74
46:S0:185:ARG:HB2	67:D1:45:ALA:HB3	1.69	0.74
1:5:239:G:N2	1:5:241:G:O6	2.19	0.74
1:5:1208:U:H6	1:5:3115:C:H42	1.33	0.74
11:l9:117:PHE:CE1	11:l9:165:CYS:HB3	2.23	0.74
69:d3:69:ARG:NH1	69:d3:116:ASP:OD1	2.21	0.74
14:M3:165:SER:O	14:M3:167:PHE:N	2.21	0.74
22:N1:18:ASP:HB3	22:N1:21:LYS:HB2	1.68	0.74
45:2:1456:C:H5''	45:2:1457:C:H5'	1.68	0.74
45:2:1555:A:OP2	61:C5:47:ARG:NH2	2.20	0.74
64:C8:60:GLU:HG2	64:C8:61:LEU:H	1.53	0.74
73:D7:35:VAL:HG11	73:D7:63:LEU:HD21	1.70	0.74
45:6:1564:U:H2'	45:6:1565:C:C6	2.23	0.74
79:sM:158:GLN:O	79:sM:162:GLN:N	2.21	0.74
5:L3:221:THR:HB	5:L3:273:HIS:H	1.51	0.73
11:L9:75:VAL:HA	11:L9:78:MET:HE3	1.69	0.73
1:1:1682:U:O2	23:N2:82:LYS:NZ	2.20	0.73
41:Q0:79:GLU:HG2	41:Q0:80:PRO:HD2	1.69	0.73
45:2:159:U:O2'	52:S6:87:ARG:NH1	2.19	0.73
9:l7:228:SER:HA	9:l7:232:ARG:NH2	2.02	0.73
1:1:1826:C:N4	85:1:4001:LLL:O43	2.20	0.73
24:N3:57:MET:HE3	24:N3:75:PRO:HB3	1.68	0.73
37:O6:36:ARG:H	37:O6:36:ARG:NE	1.86	0.73
45:2:693:U:H5''	45:2:694:U:H5'	1.70	0.73
82:p0:51:VAL:HG12	82:p0:87:VAL:HG13	1.68	0.73
48:s2:40:LYS:HG2	48:s2:247:ALA:HB1	1.71	0.73
1:5:2880:U:H1'	5:l3:250:ALA:HB3	1.70	0.73
69:D3:68:ILE:O	69:D3:70:LYS:NZ	2.21	0.73
72:D6:43:ASN:HB3	72:D6:64:LEU:HD11	1.71	0.73
1:5:595:G:N1	1:5:609:G:H5''	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:n3:2:SER:N	24:n3:56:ASP:OD1	2.20	0.73
1:1:911:C:H5''	4:L2:15:ILE:HD13	1.68	0.73
12:M0:9:TYR:O	12:M0:59:GLN:NE2	2.21	0.73
68:D2:15:ASN:HD21	68:D2:71:LYS:HA	1.54	0.73
70:D4:33:ALA:O	70:D4:34:ASN:ND2	2.21	0.73
1:5:155:G:H1'	37:o6:26:ILE:HD11	1.70	0.73
1:5:1427:U:OP2	29:n8:4:ARG:NH2	2.22	0.73
45:6:515:A:N6	45:6:537:G:O2'	2.22	0.73
64:c8:57:ARG:NH2	87:c8:301:HOH:O	2.22	0.73
67:d1:60:ARG:HA	67:d1:65:SER:HB2	1.70	0.73
5:L3:303:LYS:HD2	5:L3:361:THR:HG21	1.71	0.73
53:S7:11:GLN:HG3	53:S7:13:PRO:HD2	1.71	0.73
1:5:1334:U:O2'	9:l7:151:ARG:NH2	2.22	0.73
1:5:1736:G:N7	85:5:4163:LLL:N12	2.36	0.73
1:5:2971:A:H1'	1:5:2972:G:H5''	1.70	0.73
49:s3:44:THR:HG23	49:s3:45:LYS:HD2	1.71	0.73
1:1:2759:U:H5''	1:1:2760:C:H5'	1.70	0.73
78:SR:216:LYS:HA	78:SR:239:GLU:HG3	1.71	0.73
1:5:744:A:OP1	19:m8:66:ARG:NH2	2.21	0.73
1:5:911:C:H42	4:l2:3:ARG:HD3	1.52	0.73
22:n1:17:ARG:HB3	22:n1:17:ARG:HH11	1.54	0.73
46:s0:38:PHE:HB2	46:s0:49:ASN:HB2	1.70	0.73
47:s1:33:LYS:HE2	47:s1:41:ARG:HH12	1.52	0.73
74:d8:60:GLU:O	74:d8:62:GLU:N	2.22	0.73
1:1:919:U:OP1	87:1:4157:HOH:O	2.05	0.73
12:M0:174:THR:HG23	12:M0:176:LEU:H	1.54	0.73
22:N1:13:TYR:O	87:N1:301:HOH:O	2.06	0.73
59:C3:72:MET:HE1	59:C3:82:PRO:HD2	1.69	0.73
45:6:1067:C:H5''	47:s1:150:VAL:HG12	1.70	0.73
55:s9:78:ARG:HH12	55:s9:82:ARG:HE	1.34	0.73
78:sR:10:ARG:NH2	78:sR:316:MET:SD	2.61	0.73
68:D2:29:PRO:HB2	68:D2:58:SER:HB2	1.71	0.73
1:5:1556:C:O5'	1:5:2169:G:N2	2.22	0.73
16:m5:172:ARG:O	16:m5:183:THR:OG1	2.06	0.73
1:1:824:C:H5''	4:L2:21:ARG:HD3	1.71	0.72
50:S4:246:LEU:HB3	50:S4:250:GLU:HB2	1.70	0.72
54:S8:46:VAL:HG21	54:S8:56:ARG:HH11	1.54	0.72
45:6:340:U:H2'	45:6:341:A:H8	1.54	0.72
46:s0:26:ALA:HB3	46:s0:149:LEU:HB2	1.71	0.72
61:c5:22:LEU:HA	61:c5:25:LEU:HD12	1.71	0.72
63:c7:33:ARG:NH2	78:sR:109:ASP:OD2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:M6:12:LYS:O	21:N0:167:ARG:NH2	2.22	0.72
63:C7:24:LEU:HB3	63:C7:58:MET:HE3	1.70	0.72
64:C8:16:ARG:NH2	64:C8:21:ASN:OD1	2.21	0.72
7:l5:120:LYS:O	7:l5:248:ARG:NH2	2.22	0.72
45:6:73:U:HO2'	45:6:74:U:H6	1.33	0.72
66:d0:108:ILE:HG22	66:d0:109:GLU:H	1.53	0.72
1:1:2946:A:H5''	1:1:2947:G:H5'	1.70	0.72
5:L3:37:ARG:HG3	5:L3:186:GLY:HA2	1.70	0.72
14:M3:159:VAL:HB	29:N8:96:LYS:HG2	1.71	0.72
47:S1:61:LEU:CD2	47:S1:62:LYS:H	2.03	0.72
53:S7:115:SER:O	53:S7:116:ARG:HB2	1.89	0.72
64:C8:120:ARG:O	79:SM:57:ASN:ND2	2.22	0.72
5:l3:252:ILE:HD11	5:l3:266:ARG:NH2	2.03	0.72
17:m6:76:PRO:HB3	17:m6:138:LEU:HG	1.70	0.72
51:s5:222:LYS:HA	51:s5:225:ARG:HH11	1.54	0.72
1:1:305:U:C5	1:1:2776:C:H1'	2.25	0.72
1:1:1164:G:N2	1:1:1335:C:O2	2.20	0.72
1:1:3317:U:H1'	85:1:3997:LLL:H222	1.70	0.72
54:S8:106:ALA:HB2	54:S8:165:LEU:HG	1.71	0.72
8:l6:43:LEU:HD11	8:l6:85:ILE:HG13	1.71	0.72
81:n4:23:ARG:HG2	81:n4:24:GLY:H	1.54	0.72
35:o4:82:ALA:O	35:o4:85:VAL:N	2.16	0.72
45:6:1297:G:N2	45:6:1300:A:OP2	2.23	0.72
37:O6:74:LYS:HD2	37:O6:80:PHE:HD2	1.54	0.72
38:O7:17:THR:HG22	38:O7:18:LEU:H	1.55	0.72
59:C3:99:ARG:NH2	59:C3:119:GLU:OE1	2.22	0.72
1:5:1364:C:OP1	9:l7:110:ARG:NH2	2.22	0.72
1:5:1369:A:OP1	29:n8:21:ARG:NH1	2.22	0.72
45:2:67:A:N6	45:2:83:G:O2'	2.21	0.72
52:S6:153:VAL:HG13	52:S6:156:PHE:HB2	1.72	0.72
45:6:1595:U:H3	45:6:1600:A:H2	1.34	0.72
1:1:1168:U:H1'	9:L7:209:ASN:HD22	1.55	0.72
1:1:2704:A:OP2	87:1:4158:HOH:O	2.07	0.72
24:N3:47:ASN:ND2	87:N3:302:HOH:O	2.22	0.72
45:2:1544:U:OP1	64:C8:136:GLN:NE2	2.23	0.72
35:o4:79:SER:HB3	35:o4:80:ARG:HE	1.54	0.72
5:L3:169:THR:HG23	5:L3:171:LEU:H	1.55	0.72
46:S0:206:ASP:OD1	46:S0:206:ASP:N	2.21	0.72
11:l9:171:ASP:OD2	11:l9:173:ARG:NH1	2.22	0.72
37:o6:35:ASN:HA	37:o6:38:LYS:HB2	1.71	0.72
45:6:1207:C:H42	45:6:1456:C:H5	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:110:ALA:HA	51:s5:113:ILE:HD12	1.72	0.72
66:d0:106:ILE:HG23	66:d0:107:THR:H	1.55	0.72
45:2:1300:A:OP1	48:S2:99:LYS:NZ	2.22	0.72
54:S8:137:LYS:H	54:S8:137:LYS:HD2	1.55	0.72
1:5:3155:U:O2'	1:5:3156:U:H5''	1.90	0.72
22:n1:124:VAL:HG12	22:n1:125:ALA:H	1.55	0.72
45:6:1081:A:H2	45:6:1082:C:H41	1.38	0.72
72:d6:36:ILE:H	72:d6:36:ILE:HD12	1.53	0.72
75:d9:5:ASN:N	75:d9:7:TRP:HE1	1.87	0.72
1:1:2969:A:N7	4:L2:215:ASN:ND2	2.38	0.72
2:3:101:G:OP2	21:N0:52:LYS:NZ	2.23	0.72
23:N2:50:LEU:HB2	23:N2:54:VAL:HG22	1.72	0.72
1:5:1073:U:H1'	30:n9:50:THR:HB	1.70	0.72
2:7:75:G:H5''	2:7:76:A:H5''	1.72	0.72
45:6:947:U:H2'	45:6:948:G:H8	1.52	0.72
45:6:1662:G:O6	85:6:2171:LLL:N21	2.23	0.72
56:c0:54:TYR:HB3	56:c0:72:GLY:HA2	1.72	0.72
58:c2:61:VAL:HG13	58:c2:121:VAL:HG23	1.72	0.72
1:1:838:G:O6	44:Q3:4:ARG:NH2	2.23	0.71
9:L7:29:GLU:HA	9:L7:32:ALA:HB3	1.70	0.71
1:5:1020:G:OP1	79:sM:49:LYS:NZ	2.23	0.71
45:6:67:A:O2'	45:6:69:G:OP1	2.06	0.71
1:1:1724:U:H4'	1:1:1725:C:OP1	1.89	0.71
1:1:3272:C:OP2	8:L6:78:ARG:NH1	2.22	0.71
9:L7:158:LYS:HE3	9:L7:159:GLN:H	1.56	0.71
10:L8:152:LEU:HD12	10:L8:198:ALA:HB3	1.71	0.71
24:N3:87:ARG:HH22	24:N3:137:VAL:HG22	1.56	0.71
44:Q3:46:THR:HB	44:Q3:58:SER:HB2	1.72	0.71
45:2:1433:G:N2	75:D9:45:GLU:OE2	2.22	0.71
61:C5:85:ILE:HG22	61:C5:112:LEU:HD23	1.69	0.71
68:D2:31:SER:HG	68:D2:34:ILE:H	1.37	0.71
26:n5:68:THR:HG21	36:o5:36:LEU:HD13	1.71	0.71
45:6:861:U:O2'	68:d2:56:HIS:O	2.08	0.71
17:M6:15:LEU:HD21	17:M6:125:ARG:HG3	1.73	0.71
55:S9:150:LEU:O	55:S9:153:GLU:N	2.22	0.71
78:SR:89:LEU:HB2	78:SR:103:PHE:HB2	1.72	0.71
31:o0:8:GLU:OE2	31:o0:12:GLN:NE2	2.24	0.71
77:E1:120:GLU:HA	77:E1:131:PHE:HA	1.70	0.71
7:l5:178:ASN:HA	7:l5:183:TRP:CD1	2.24	0.71
37:o6:70:ARG:HG3	37:o6:87:VAL:HG21	1.72	0.71
45:6:959:U:H5'	73:d7:28:PRO:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s2:140:ARG:NH1	67:d1:10:GLU:OE1	2.24	0.71
60:c4:42:VAL:HG12	60:c4:67:VAL:HG23	1.72	0.71
1:1:2895:G:O2'	41:Q0:100:TYR:O	2.07	0.71
2:3:72:A:O2'	2:3:74:C:OP1	2.07	0.71
45:2:1559:A:H5''	64:C8:135:GLY:HA3	1.73	0.71
51:S5:120:ILE:HG12	71:D5:100:ILE:HD11	1.72	0.71
45:6:280:U:O2'	45:6:281:G:OP2	2.05	0.71
10:L8:100:GLU:OE2	10:L8:108:ARG:NH1	2.23	0.71
50:S4:185:GLY:H	50:S4:189:LEU:HD13	1.54	0.71
52:S6:114:VAL:HG12	52:S6:115:LYS:HD3	1.71	0.71
69:D3:69:ARG:NH1	69:D3:116:ASP:OD1	2.24	0.71
1:5:266:A:N6	37:o6:29:LYS:O	2.24	0.71
1:5:2572:C:O2'	1:5:2573:G:O4'	2.09	0.71
85:5:4153:LLL:H322	85:5:4153:LLL:H412	1.56	0.71
45:6:68:A:OP1	52:s6:160:ARG:NH2	2.19	0.71
45:6:445:A:H61	45:6:462:G:H1'	1.54	0.71
48:s2:148:LEU:HA	67:d1:4:ASP:HB2	1.72	0.71
14:M3:157:ARG:HG2	14:M3:158:ALA:H	1.56	0.71
47:S1:198:GLU:HA	47:S1:201:THR:HB	1.73	0.71
48:S2:56:ILE:HG23	48:S2:61:LEU:HB2	1.73	0.71
50:S4:159:THR:HB	50:S4:227:VAL:HG23	1.72	0.71
74:D8:12:VAL:HG22	74:D8:28:VAL:HG11	1.73	0.71
47:s1:70:LEU:HB3	47:s1:79:HIS:HB3	1.71	0.71
1:1:291:C:H5''	16:M5:68:ARG:HH12	1.54	0.71
45:2:1488:G:H3'	45:2:1515:A:H61	1.55	0.71
10:l8:157:VAL:HG21	10:l8:163:VAL:HG21	1.73	0.71
54:s8:62:THR:HA	54:s8:76:THR:O	1.91	0.71
61:c5:108:ARG:HG3	61:c5:111:MET:HE3	1.72	0.71
1:1:73:C:N3	14:M3:59:ARG:NH1	2.38	0.71
45:2:207:U:O2	54:S8:178:ARG:NH1	2.22	0.71
47:S1:104:ASP:OD1	47:S1:214:LYS:NZ	2.21	0.71
62:C6:55:VAL:HG22	62:C6:59:LYS:HE3	1.73	0.71
1:5:2818:U:H5'	1:5:2818:U:C6	2.25	0.71
1:5:3153:U:O2'	1:5:3154:C:O4'	2.07	0.71
6:l4:141:ARG:HB3	6:l4:176:SER:HB2	1.73	0.71
45:6:454:U:H5''	45:6:455:C:C5	2.24	0.71
1:1:817:A:OP1	87:1:4159:HOH:O	2.09	0.71
24:N3:47:ASN:ND2	87:N3:301:HOH:O	2.19	0.71
65:C9:86:ARG:HB2	65:C9:89:ARG:HB2	1.73	0.71
77:E1:138:ARG:HE	77:E1:149:LYS:HD3	1.56	0.71
1:5:835:G:O2'	1:5:857:G:N2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:971:G:OP1	19:m8:8:LYS:NZ	2.23	0.71
1:5:2724:U:OP1	22:n1:57:TYR:OH	2.07	0.71
1:5:2836:C:H5	1:5:2852:C:N4	1.89	0.71
4:l2:178:PRO:HD2	44:q3:26:VAL:HG23	1.72	0.71
45:6:1542:G:N2	45:6:1569:A:OP2	2.22	0.71
72:d6:10:ARG:HB2	72:d6:34:LYS:HG2	1.71	0.71
50:S4:45:ILE:HD12	50:S4:61:VAL:HG21	1.73	0.70
52:S6:135:PRO:HB2	52:S6:141:ILE:HG12	1.73	0.70
1:5:576:C:OP1	9:l7:241:LYS:NZ	2.24	0.70
1:1:2213:A:H2'	1:1:2214:A:C8	2.26	0.70
11:L9:9:GLN:HG2	11:L9:52:LEU:HD21	1.72	0.70
16:M5:106:VAL:HG11	16:M5:132:VAL:HG21	1.72	0.70
45:2:752:A:H5'	50:S4:219:VAL:HG23	1.71	0.70
70:D4:12:VAL:HG13	70:D4:23:PHE:HB3	1.73	0.70
22:n1:132:PRO:O	22:n1:134:GLN:NE2	2.19	0.70
1:1:2527:G:H1	1:1:2583:C:H42	1.40	0.70
14:M3:74:GLY:O	14:M3:101:ARG:NH1	2.24	0.70
1:5:2537:U:O2'	1:5:2538:U:O4'	2.10	0.70
6:L4:44:LYS:HB3	6:L4:47:ARG:HH11	1.57	0.70
48:S2:81:MET:HE1	48:S2:186:LYS:HB3	1.74	0.70
53:S7:133:THR:HG22	53:S7:155:ASP:HB3	1.72	0.70
55:S9:129:ILE:HG23	55:S9:134:ILE:HD11	1.74	0.70
68:D2:70:ASN:ND2	68:D2:130:TYR:O	2.21	0.70
1:5:2156:C:O2	1:5:2180:G:N2	2.15	0.70
85:8:221:LLL:H13	85:8:221:LLL:H122	1.56	0.70
45:6:320:U:H1'	45:6:321:C:H5''	1.71	0.70
55:s9:102:GLU:HA	55:s9:105:LEU:HB2	1.73	0.70
64:c8:126:ARG:HH21	64:c8:131:LEU:HB3	1.54	0.70
11:L9:150:SER:HB3	11:L9:153:ASP:HB2	1.74	0.70
51:S5:116:HIS:NE2	71:D5:95:HIS:HE1	1.89	0.70
1:5:1523:U:OP2	1:5:1604:G:O2'	2.10	0.70
5:l3:232:ARG:NH1	5:l3:269:GLN:O	2.23	0.70
16:m5:114:ARG:HG3	16:m5:151:ILE:HG12	1.73	0.70
22:n1:8:ARG:O	22:n1:11:THR:OG1	2.04	0.70
78:sR:216:LYS:HA	78:sR:239:GLU:HG3	1.72	0.70
45:2:888:U:H1'	60:C4:126:THR:HG21	1.72	0.70
47:S1:100:PHE:HB2	47:S1:181:LEU:HD12	1.73	0.70
1:5:1877:U:H5''	1:5:1878:G:H5'	1.72	0.70
18:m7:26:PHE:HE1	18:m7:120:ASN:HA	1.54	0.70
36:o5:21:LEU:HD22	36:o5:25:LYS:HE3	1.73	0.70
63:c7:104:ASN:C	63:c7:106:THR:H	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1447:G:H3'	18:M7:67:ILE:HD11	1.72	0.70
45:2:151:G:O6	70:D4:124:ARG:NH2	2.25	0.70
1:5:2868:U:OP1	87:5:4251:HOH:O	2.10	0.70
8:l6:85:ILE:HG23	34:o3:107:ILE:HG21	1.73	0.70
28:n7:25:ILE:HA	28:n7:43:VAL:HG12	1.72	0.70
1:1:1940:G:H21	1:1:3362:A:H8	1.37	0.70
85:1:3990:LLL:H312	85:1:3990:LLL:H322	1.57	0.70
45:2:656:G:O2'	45:2:657:U:O4'	2.08	0.70
1:5:2415:C:OP1	4:l2:2:GLY:N	2.25	0.70
1:5:3241:G:H2'	1:5:3245:A:C8	2.27	0.70
2:7:85:G:OP1	87:7:303:HOH:O	2.10	0.70
5:l3:21:ARG:HG2	5:l3:269:GLN:HG2	1.72	0.70
5:l3:81:THR:HG22	5:l3:321:PHE:HA	1.73	0.70
45:6:1086:A:H5'	48:s2:164:SER:HB3	1.73	0.70
45:6:1521:G:O6	65:c9:68:ARG:NH1	2.23	0.70
50:s4:246:LEU:HD13	50:s4:251:GLU:HG2	1.73	0.70
68:d2:8:ALA:HB2	68:d2:74:VAL:HG11	1.73	0.70
1:1:2818:U:H6	1:1:2818:U:H5'	1.55	0.70
18:M7:25:SER:O	18:M7:29:THR:HG23	1.92	0.70
45:2:1202:A:H61	45:2:1457:C:H5''	1.56	0.70
45:2:1325:A:OP2	63:C7:11:ARG:NH1	2.25	0.70
45:2:1756:A:OP1	45:2:1756:A:C6	2.44	0.70
54:S8:147:ALA:C	54:S8:149:SER:H	1.98	0.70
63:C7:99:VAL:HG13	63:C7:118:PRO:HB2	1.74	0.70
1:5:3291:G:H2'	1:5:3292:A:C8	2.27	0.70
5:l3:347:SER:HB2	5:l3:350:ALA:H	1.56	0.70
6:l4:179:LEU:HD22	6:l4:183:LYS:HG2	1.73	0.70
9:l7:222:HIS:CE1	9:l7:224:ILE:HD12	2.27	0.70
12:m0:28:ASP:OD2	12:m0:28:ASP:N	2.25	0.70
1:1:266:A:OP1	16:M5:5:LYS:NZ	2.24	0.70
1:1:1420:C:OP2	6:L4:193:LYS:NZ	2.24	0.70
11:L9:20:ILE:HD13	11:L9:45:PHE:HD1	1.56	0.70
45:2:1592:A:H2'	45:2:1593:A:C8	2.27	0.70
1:5:959:C:OP1	87:5:4263:HOH:O	2.09	0.70
1:5:1329:U:O2'	1:5:1330:A:OP1	2.10	0.70
11:l9:48:VAL:HG13	11:l9:52:LEU:HB3	1.72	0.70
48:s2:88:LYS:HG2	48:s2:89:GLN:H	1.55	0.70
53:s7:64:VAL:HG22	53:s7:94:ALA:HB1	1.74	0.70
1:1:209:A:H4'	1:1:211:A:C8	2.26	0.69
1:1:2688:U:OP1	7:L5:12:TYR:OH	2.09	0.69
14:M3:127:PRO:HG2	14:M3:131:LYS:HD2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1229:G:O2'	45:2:1255:G:N2	2.24	0.69
46:S0:15:GLN:HG2	63:C7:100:LEU:HD11	1.74	0.69
51:S5:42:LEU:HB3	51:S5:46:TRP:O	1.91	0.69
45:6:1065:A:N3	47:s1:146:GLN:NE2	2.40	0.69
1:1:2503:G:H1'	1:1:2504:U:H5	1.57	0.69
1:1:3275:U:H3'	1:1:3276:G:H5''	1.74	0.69
11:L9:171:ASP:OD1	11:L9:173:ARG:HG3	1.92	0.69
24:N3:54:LEU:HD21	24:N3:119:GLY:HA3	1.73	0.69
6:l4:287:THR:O	6:l4:291:ASN:ND2	2.25	0.69
27:n6:37:LYS:H	27:n6:37:LYS:HD3	1.57	0.69
82:p0:94:THR:HA	82:p0:97:LYS:HB3	1.75	0.69
1:1:138:U:H2'	1:1:139:G:C8	2.27	0.69
11:L9:20:ILE:HD13	11:L9:45:PHE:CD1	2.27	0.69
39:O8:31:LEU:HA	39:O8:37:PRO:HA	1.74	0.69
45:2:333:A:OP1	54:S8:31:ARG:NH2	2.24	0.69
47:S1:36:SER:HB2	47:S1:231:LEU:HD22	1.74	0.69
1:5:2329:C:OP1	87:5:4262:HOH:O	2.10	0.69
1:5:2433:U:H1'	16:m5:125:SER:HB3	1.74	0.69
2:7:100:C:OP2	21:n0:52:LYS:NZ	2.22	0.69
45:6:1544:U:OP1	64:c8:136:GLN:NE2	2.25	0.69
1:1:718:G:C2	1:1:721:G:H1'	2.27	0.69
1:1:912:G:OP2	4:L2:9:ARG:NH1	2.26	0.69
18:M7:179:GLN:HA	18:M7:182:ILE:HB	1.74	0.69
39:O8:24:THR:HG23	39:O8:44:LYS:HB2	1.74	0.69
45:2:1274:C:H41	79:SM:96:ARG:H	1.41	0.69
52:S6:70:PRO:O	52:S6:98:ARG:NH1	2.26	0.69
46:s0:157:ASP:N	46:s0:157:ASP:OD1	2.26	0.69
50:s4:73:ASP:C	50:s4:164:LEU:HD11	2.18	0.69
1:1:3174:A:H2'	1:1:3175:U:H5'	1.73	0.69
36:O5:31:LEU:HD13	36:O5:47:VAL:HG11	1.74	0.69
45:2:652:G:O6	45:2:682:C:N4	2.26	0.69
1:5:501:A:H2'	1:5:502:U:H6	1.56	0.69
45:6:153:G:OP2	70:d4:131:ARG:NH2	2.24	0.69
45:6:1305:U:OP2	45:6:1306:C:N4	2.25	0.69
61:c5:33:PHE:O	61:c5:36:LEU:HD23	1.91	0.69
45:2:122:U:H5''	50:S4:77:ARG:HH21	1.58	0.69
54:S8:76:THR:HG22	54:S8:108:PRO:HG2	1.73	0.69
1:5:816:A:H5'	1:5:906:A:N6	2.08	0.69
1:5:2416:U:OP1	87:5:4264:HOH:O	2.10	0.69
2:7:77:G:N2	2:7:102:A:OP2	2.19	0.69
14:m3:64:LYS:HG3	29:n8:69:TRP:CG	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:o4:8:ARG:HH21	35:o4:31:ARG:HD2	1.57	0.69
45:6:895:G:H21	60:c4:38:THR:HG21	1.57	0.69
45:6:985:G:OP1	85:6:2168:LLL:O23	2.08	0.69
1:1:2207:A:H2'	1:1:2208:A:H5'	1.74	0.69
1:1:3048:A:H5'	5:L3:53:MET:HE3	1.73	0.69
35:O4:41:ARG:O	35:O4:43:LYS:NZ	2.25	0.69
47:S1:85:LYS:HB3	47:S1:101:HIS:HB3	1.74	0.69
55:S9:60:LEU:HD21	55:S9:93:LEU:HD11	1.74	0.69
68:D2:104:LEU:HA	68:D2:126:LEU:HB2	1.74	0.69
36:o5:78:LYS:HA	36:o5:81:ARG:HD2	1.74	0.69
45:6:1338:C:H1'	45:6:1410:A:C4	2.27	0.69
45:6:1457:C:OP1	87:6:2224:HOH:O	2.11	0.69
54:s8:84:HIS:O	57:c1:11:ARG:NH2	2.25	0.69
1:1:1433:A:N3	33:O2:27:ARG:NH1	2.41	0.69
1:1:2528:G:O3'	10:L8:248:LYS:NZ	2.25	0.69
6:L4:53:SER:HB3	6:L4:56:ALA:HB2	1.75	0.69
12:M0:72:ALA:HB2	12:M0:155:ALA:HB2	1.75	0.69
22:N1:132:PRO:O	22:N1:134:GLN:NE2	2.25	0.69
45:2:1546:G:OP1	64:C8:123:ARG:NH1	2.25	0.69
45:2:1585:U:H3	45:2:1611:A:H2	1.39	0.69
51:S5:44:ASN:O	51:S5:45:LYS:NZ	2.16	0.69
58:C2:63:VAL:HG21	58:C2:94:ALA:HA	1.75	0.69
77:E1:126:CYS:HB3	77:E1:130:VAL:HG11	1.75	0.69
1:5:156:G:OP2	37:o6:25:LYS:HB3	1.93	0.69
3:8:95:G:OP2	38:o7:72:ARG:NH1	2.26	0.69
5:l3:4:ARG:HG3	5:l3:4:ARG:HH11	1.58	0.69
12:m0:76:MET:CE	12:m0:148:VAL:HA	2.14	0.69
18:m7:111:LYS:HE2	18:m7:152:GLU:HB3	1.75	0.69
52:s6:57:ASP:HA	52:s6:106:LEU:HA	1.74	0.69
55:s9:23:ARG:NH1	55:s9:27:GLU:OE2	2.24	0.69
9:L7:139:PRO:HA	9:L7:237:ASN:HD21	1.58	0.69
45:2:1756:A:O2'	45:2:1757:G:P	2.50	0.69
1:5:875:G:OP2	87:5:4265:HOH:O	2.10	0.69
17:m6:12:LYS:O	21:n0:167:ARG:NH2	2.25	0.69
44:q3:59:CYS:SG	44:q3:60:CYS:N	2.65	0.69
45:6:104:A:OP2	45:6:308:C:N4	2.26	0.69
1:1:39:A:H5''	29:N8:35:ALA:HB2	1.73	0.69
1:1:946:U:H2'	1:1:947:G:H8	1.57	0.69
45:2:833:U:H5'	45:2:834:G:H5''	1.75	0.69
45:2:895:G:H1	45:2:917:U:H3	1.41	0.69
45:2:1236:A:O4'	77:E1:138:ARG:NH2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1414:U:OP1	63:C7:2:GLY:N	2.26	0.69
68:D2:83:ILE:HG12	68:D2:122:SER:HB2	1.74	0.69
77:E1:144:CYS:HB3	77:E1:147:VAL:HB	1.74	0.69
1:5:64:G:OP2	16:m5:169:LYS:NZ	2.26	0.69
1:5:1049:C:H2'	1:5:1050:U:H6	1.58	0.69
15:m4:72:LEU:HD22	15:m4:73:PRO:HD2	1.75	0.69
81:n4:46:PRO:HB2	81:n4:54:LEU:HD23	1.75	0.69
45:6:1353:U:H2'	45:6:1354:G:H5''	1.75	0.69
45:6:1413:U:H4'	45:6:1414:U:OP2	1.93	0.69
1:1:1820:U:O2'	1:1:1821:U:OP2	2.11	0.68
52:S6:139:ASN:HA	52:S6:142:ARG:HB2	1.74	0.68
1:5:2586:G:C8	10:l8:241:LYS:HD3	2.28	0.68
1:5:2800:G:OP2	87:5:4263:HOH:O	2.09	0.68
27:n6:73:VAL:HA	27:n6:80:VAL:HG23	1.75	0.68
1:1:3170:A:H61	1:1:3280:U:H3	1.42	0.68
45:2:1755:A:H2	45:2:1756:A:H4'	1.55	0.68
1:5:2759:U:H5''	1:5:2760:C:H5'	1.73	0.68
18:m7:19:GLY:HA3	18:m7:22:LEU:HD11	1.74	0.68
77:e1:92:LYS:HG2	77:e1:93:HIS:H	1.58	0.68
1:1:64:G:N7	87:1:4182:HOH:O	2.24	0.68
18:M7:171:ARG:H	18:M7:171:ARG:HD3	1.58	0.68
21:N0:67:ALA:O	21:N0:68:HIS:ND1	2.27	0.68
51:S5:51:VAL:HG11	51:S5:130:ILE:HD11	1.75	0.68
53:S7:112:ARG:NH2	53:S7:117:THR:OG1	2.25	0.68
1:5:1807:G:H5'	28:n7:135:ARG:NH1	2.07	0.68
1:5:2204:C:O2'	1:5:2205:U:OP1	2.12	0.68
14:m3:164:GLU:O	29:n8:139:ARG:NH2	2.26	0.68
19:m8:122:ILE:HG23	19:m8:126:GLN:HB2	1.75	0.68
45:6:707:A:H2'	45:6:708:C:H5''	1.74	0.68
45:6:1073:G:H2'	45:6:1074:G:H5''	1.75	0.68
47:s1:136:ARG:HB3	47:s1:216:LYS:HB2	1.75	0.68
45:2:887:A:H1'	60:C4:122:PRO:HB3	1.74	0.68
45:2:1000:C:N4	45:2:1003:A:OP2	2.21	0.68
47:S1:105:PHE:HB3	47:S1:110:LEU:HD11	1.76	0.68
52:S6:163:THR:HA	52:S6:168:THR:HA	1.76	0.68
60:C4:107:ARG:NH2	72:D6:52:ASP:OD2	2.26	0.68
1:5:1493:G:O6	40:o9:2:ALA:N	2.26	0.68
1:1:1539:A:OP2	87:1:4160:HOH:O	2.11	0.68
45:2:1101:G:H5''	68:D2:76:SER:HB2	1.76	0.68
50:S4:246:LEU:HD12	50:S4:246:LEU:H	1.58	0.68
62:C6:38:LEU:O	62:C6:45:ARG:NE	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:D2:55:ASP:HB2	68:D2:57:ARG:HH11	1.58	0.68
73:D7:18:LYS:O	73:D7:29:ARG:NH2	2.26	0.68
1:5:706:A:N6	87:5:4286:HOH:O	2.26	0.68
46:s0:7:PHE:HZ	67:d1:43:GLY:HA2	1.59	0.68
48:s2:53:ILE:HD12	48:s2:53:ILE:H	1.59	0.68
78:sR:167:VAL:HG23	78:sR:183:LEU:HB2	1.75	0.68
4:L2:3:ARG:HB2	4:L2:207:VAL:HG22	1.73	0.68
45:2:407:A:O2'	45:2:1671:A:N3	2.26	0.68
45:2:818:C:N4	45:2:819:G:O6	2.27	0.68
52:S6:33:GLY:HA2	52:S6:51:LYS:HE2	1.75	0.68
1:5:412:G:OP1	18:m7:62:ARG:NH1	2.25	0.68
14:m3:74:GLY:O	14:m3:101:ARG:NH1	2.27	0.68
19:m8:73:GLN:HB2	19:m8:76:ALA:HB2	1.73	0.68
45:6:238:U:O2'	45:6:239:C:OP2	2.10	0.68
46:s0:89:PHE:O	46:s0:93:THR:OG1	2.11	0.68
46:s0:200:ASP:HA	46:s0:203:PHE:CD2	2.29	0.68
48:s2:225:LEU:HD13	68:d2:68:ARG:HA	1.76	0.68
65:c9:15:ILE:HD13	65:c9:60:SER:HA	1.76	0.68
1:1:1096:U:H5	22:N1:116:ARG:HH12	1.40	0.68
6:L4:138:ARG:HH21	6:L4:240:PRO:HB2	1.59	0.68
7:L5:294:ALA:HB2	12:M0:217:PHE:HB3	1.76	0.68
8:L6:51:ARG:NH1	15:M4:114:ASP:OD2	2.26	0.68
32:O1:55:LEU:HB2	32:O1:95:PRO:HD3	1.75	0.68
36:O5:101:THR:HB	36:O5:104:GLN:HB2	1.75	0.68
45:2:741:C:O2	53:S7:107:ARG:NH1	2.26	0.68
45:2:812:A:H62	45:2:858:G:H2'	1.58	0.68
1:5:2098:C:O2'	1:5:2099:A:O5'	2.11	0.68
33:o2:96:ILE:HD13	33:o2:105:ARG:HG2	1.74	0.68
45:6:25:C:HO2'	45:6:366:A:HO2'	1.41	0.68
45:6:482:U:O4	45:6:505:A:N6	2.16	0.68
54:s8:165:LEU:HB3	54:s8:183:ILE:HD13	1.75	0.68
63:c7:21:TYR:CD2	63:c7:58:MET:HE1	2.29	0.68
63:c7:33:ARG:HH22	78:sR:85:TRP:HB3	1.59	0.68
1:5:2970:C:H2'	1:5:2971:A:C8	2.29	0.68
1:5:3085:G:OP1	81:n4:34:SER:OG	2.11	0.68
5:l3:41:VAL:HA	5:l3:185:GLY:CA	2.23	0.68
6:l4:198:ARG:HH11	27:n6:12:ARG:HH12	1.42	0.68
6:l4:361:HIS:O	21:n0:28:ARG:NH2	2.25	0.68
15:m4:113:THR:HG22	15:m4:116:GLU:HG3	1.74	0.68
45:6:228:G:H1	45:6:236:A:H61	1.40	0.68
45:6:1542:G:N2	45:6:1568:C:H1'	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:C3:56:ASP:OD1	73:D7:52:THR:OG1	2.12	0.68
12:m0:101:LYS:HG2	12:m0:121:LYS:HG3	1.75	0.68
32:o1:72:ARG:NH1	32:o1:105:GLN:O	2.26	0.68
47:s1:30:PHE:HB3	47:s1:96:LEU:CD1	2.24	0.68
51:s5:109:LYS:HG2	51:s5:113:ILE:HD11	1.75	0.68
61:c5:15:HIS:H	61:c5:22:LEU:HD12	1.57	0.68
1:1:617:G:H4'	18:M7:171:ARG:NH1	2.08	0.68
1:1:1722:U:OP1	20:M9:100:ARG:HD3	1.94	0.68
4:L2:204:MET:HE3	4:L2:208:ASP:HB3	1.76	0.68
45:2:1062:A:H2'	45:2:1063:U:O4'	1.93	0.68
45:2:1632:C:HO2'	45:2:1638:G:HO2'	1.42	0.68
64:C8:94:ASP:OD1	64:C8:98:TYR:OH	2.09	0.68
1:5:582:G:O6	85:5:4172:LLL:N12	2.24	0.68
1:5:943:U:H3'	29:n8:13:GLY:HA2	1.75	0.68
17:m6:79:ILE:HG21	17:m6:138:LEU:HD11	1.76	0.68
28:n7:83:THR:HG22	28:n7:85:TYR:H	1.57	0.68
45:6:324:U:OP1	57:c1:133:LYS:NZ	2.24	0.68
45:6:338:C:H2'	45:6:339:C:H6	1.59	0.68
62:c6:83:GLN:HE22	62:c6:119:ALA:HA	1.58	0.68
45:2:614:C:OP2	69:D3:5:LYS:NZ	2.27	0.67
45:2:1601:G:H22	65:C9:88:VAL:HG22	1.59	0.67
57:C1:99:ARG:NH1	69:D3:7:ARG:O	2.26	0.67
1:5:686:G:OP2	14:m3:39:ARG:NH2	2.27	0.67
1:5:1578:C:H2'	1:5:1579:C:H5'	1.75	0.67
1:5:1603:A:OP1	20:m9:38:ARG:NH2	2.26	0.67
1:5:2335:G:N7	87:5:4291:HOH:O	2.27	0.67
12:m0:45:GLU:O	12:m0:47:PRO:HD3	1.94	0.67
30:n9:22:LYS:HD2	30:n9:22:LYS:N	2.09	0.67
50:s4:92:LEU:HB2	50:s4:95:THR:HG22	1.76	0.67
52:s6:211:LEU:HA	52:s6:214:LYS:HE2	1.75	0.67
1:1:2294:U:OP2	24:N3:71:LYS:HE2	1.93	0.67
8:L6:129:GLU:OE1	8:L6:129:GLU:N	2.27	0.67
35:O4:41:ARG:HG2	35:O4:56:THR:HG21	1.76	0.67
45:2:1600:A:H4'	45:2:1601:G:OP1	1.94	0.67
73:D7:34:ASP:HB3	73:D7:43:ILE:HD12	1.76	0.67
1:5:1580:A:H5'	1:5:2522:G:N2	2.05	0.67
2:7:3:U:H2'	2:7:4:U:H6	1.58	0.67
45:6:252:U:H2'	45:6:253:A:H8	1.59	0.67
1:1:2261:G:O2'	1:1:2263:C:N4	2.27	0.67
19:M8:54:LEU:HB3	19:M8:58:ASN:HB2	1.76	0.67
28:N7:10:VAL:HG22	28:N7:24:VAL:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S1:58:SER:O	47:S1:62:LYS:HD2	1.94	0.67
50:S4:196:VAL:HG12	50:S4:209:HIS:HB2	1.76	0.67
78:SR:13:LEU:HB2	78:SR:310:ILE:HB	1.77	0.67
1:5:900:G:H1'	1:5:1589:A:N6	2.09	0.67
14:m3:8:PRO:HD3	19:m8:164:ARG:HB3	1.76	0.67
17:m6:62:THR:H	17:m6:69:GLY:HA3	1.59	0.67
28:n7:135:ARG:HB3	28:n7:135:ARG:HH21	1.60	0.67
36:o5:76:GLN:O	36:o5:81:ARG:NH1	2.27	0.67
47:s1:176:VAL:HG22	47:s1:184:LEU:HD11	1.75	0.67
57:c1:78:THR:HA	57:c1:84:ILE:HG22	1.75	0.67
60:c4:85:ALA:H	60:c4:119:THR:HB	1.59	0.67
1:1:2376:G:H2'	1:1:2377:G:C8	2.29	0.67
11:L9:34:LEU:HD21	11:L9:149:ASN:HB2	1.76	0.67
69:D3:125:VAL:HG12	69:D3:126:LYS:HG3	1.76	0.67
71:D5:59:TYR:HE2	71:D5:61:SER:HB3	1.59	0.67
5:l3:37:ARG:O	5:l3:186:GLY:HA3	1.95	0.67
6:l4:3:ARG:HH21	6:l4:22:LEU:HD12	1.58	0.67
53:S7:82:GLU:OE2	53:S7:165:LYS:NZ	2.23	0.67
2:7:4:U:H2'	2:7:5:G:C8	2.30	0.67
7:l5:68:THR:HB	7:l5:71:GLY:O	1.93	0.67
81:n4:80:ARG:NH2	45:6:165:G:O2'	2.26	0.67
31:o0:100:ILE:HG13	31:o0:101:LEU:HD22	1.77	0.67
62:c6:22:VAL:HG22	62:c6:65:ILE:HG23	1.75	0.67
78:sR:93:ASP:HB3	78:sR:96:THR:HG22	1.77	0.67
1:1:1808:G:OP2	28:N7:133:LYS:NZ	2.26	0.67
3:4:9:A:H2'	3:4:10:A:C8	2.30	0.67
45:2:1433:G:O4'	75:D9:41:GLN:NE2	2.27	0.67
61:C5:103:ASN:HD21	79:SM:56:GLY:HA2	1.59	0.67
1:5:96:G:OP2	29:n8:34:MET:HB2	1.94	0.67
6:l4:99:MET:HE3	6:l4:103:THR:H	1.60	0.67
45:6:1713:G:H2'	45:6:1714:A:C8	2.30	0.67
1:1:1160:C:OP1	19:M8:2:GLY:N	2.27	0.67
11:L9:90:MET:HA	11:L9:182:SER:H	1.58	0.67
24:N3:40:LYS:HD3	24:N3:59:MET:HE2	1.76	0.67
1:5:1496:C:OP1	87:5:4268:HOH:O	2.12	0.67
12:m0:36:LEU:HD11	12:m0:87:LEU:HD12	1.77	0.67
17:m6:18:ARG:O	17:m6:22:VAL:HG12	1.94	0.67
45:6:960:U:H1'	59:c3:52:VAL:HG23	1.75	0.67
45:6:1535:U:H1'	45:6:1536:G:C2	2.30	0.67
1:1:412:G:OP1	18:M7:62:ARG:NH1	2.27	0.67
1:1:1095:U:N3	22:N1:127:GLN:HG2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L3:211:GLN:NE2	5:L3:283:TYR:O	2.26	0.67
7:L5:258:LYS:O	7:L5:259:LYS:HB3	1.93	0.67
72:D6:4:LYS:HD3	72:D6:5:ARG:HH21	1.59	0.67
1:5:1634:G:N7	28:n7:17:ARG:NH2	2.42	0.67
27:n6:17:LYS:O	27:n6:21:THR:OG1	2.13	0.67
45:6:697:C:O2'	53:s7:107:ARG:O	2.10	0.67
53:s7:14:THR:H	53:s7:17:GLU:HB2	1.60	0.67
75:d9:4:GLU:N	75:d9:4:GLU:OE2	2.28	0.67
78:sR:10:ARG:HG3	78:sR:314:GLN:HB2	1.76	0.67
1:1:1710:C:OP1	28:N7:15:ARG:NH1	2.28	0.67
16:M5:42:PRO:HG3	16:M5:61:ILE:HG13	1.76	0.67
36:O5:118:ILE:HG22	36:O5:119:LYS:H	1.60	0.67
48:S2:35:TRP:HB3	48:S2:46:LYS:HE2	1.77	0.67
1:5:1176:C:OP1	17:m6:25:LYS:NZ	2.28	0.67
1:5:1942:U:OP2	20:m9:74:ARG:NH1	2.28	0.67
1:5:2745:G:N2	1:5:2748:A:OP2	2.26	0.67
10:l8:72:PRO:HG2	16:m5:18:VAL:HA	1.76	0.67
35:o4:9:ARG:HG2	35:o4:34:HIS:CE1	2.30	0.67
35:o4:82:ALA:O	35:o4:84:CYS:N	2.28	0.67
61:c5:51:SER:HB2	61:c5:53:PRO:HD3	1.77	0.67
75:d9:5:ASN:H	75:d9:7:TRP:HE1	1.43	0.67
1:1:2663:G:H5''	7:L5:152:ARG:HD3	1.77	0.67
1:1:3182:G:OP1	17:M6:160:ARG:NH2	2.26	0.67
13:M1:34:SER:HB3	13:M1:67:VAL:HG11	1.76	0.67
1:5:52:A:N3	1:5:811:U:O2'	2.28	0.67
8:l6:52:VAL:HA	8:l6:67:GLY:HA2	1.77	0.67
24:n3:48:ARG:HH11	24:n3:48:ARG:HG3	1.60	0.67
53:s7:138:LYS:O	53:s7:139:ARG:NE	2.26	0.67
1:5:655:C:H2'	1:5:656:A:H8	1.60	0.66
8:l6:176:PHE:H	15:m4:117:ARG:HH22	1.41	0.66
45:6:1394:G:H1	45:6:1404:C:H42	1.43	0.66
49:s3:75:LYS:HB3	56:c0:22:VAL:HB	1.76	0.66
53:s7:49:ILE:HG13	53:s7:57:ALA:HB3	1.77	0.66
58:c2:36:LEU:HD21	58:c2:43:ARG:HH12	1.59	0.66
75:d9:7:TRP:CD1	75:d9:7:TRP:H	2.10	0.66
1:1:2771:U:O2'	1:1:2772:C:O4'	2.07	0.66
1:1:3147:G:O2'	5:L3:104:THR:HG23	1.96	0.66
6:L4:82:THR:HG23	6:L4:84:ARG:H	1.60	0.66
12:M0:31:ILE:HD12	12:M0:65:LEU:HB3	1.76	0.66
27:N6:57:LEU:HD23	27:N6:67:GLU:HB3	1.76	0.66
28:N7:53:VAL:HA	28:N7:57:HIS:CD2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:O7:28:HIS:CD2	38:O7:31:LYS:HE2	2.30	0.66
44:Q3:14:TYR:OH	44:Q3:30:GLU:OE2	2.12	0.66
45:2:1533:C:H4'	45:2:1539:G:C6	2.30	0.66
46:S0:56:LYS:NZ	46:S0:159:ALA:O	2.28	0.66
78:SR:156:VAL:HA	78:SR:169:ILE:HG22	1.75	0.66
2:7:5:G:OP1	13:m1:143:ARG:NH2	2.28	0.66
4:l2:112:ILE:HG22	4:l2:135:ILE:HG12	1.75	0.66
11:l9:90:MET:HE2	11:l9:179:ILE:HG22	1.78	0.66
41:q0:77:ILE:O	41:q0:78:ILE:HG22	1.95	0.66
45:6:103:A:H4'	45:6:104:A:H5'	1.77	0.66
45:6:107:C:H42	45:6:307:G:H1	1.41	0.66
55:s9:83:VAL:HA	55:s9:149:ARG:HA	1.77	0.66
1:l1:1427:U:OP2	29:N8:4:ARG:NH2	2.22	0.66
1:l1:1507:G:N7	18:M7:129:THR:HG23	2.11	0.66
5:L3:320:ASP:OD2	5:L3:320:ASP:N	2.25	0.66
12:M0:171:TRP:O	12:M0:174:THR:HG22	1.93	0.66
14:M3:165:SER:C	14:M3:167:PHE:H	2.03	0.66
18:M7:48:LEU:HB3	18:M7:88:VAL:HG13	1.78	0.66
45:2:1588:G:H1	45:2:1608:U:H3	1.44	0.66
46:S0:142:PRO:HG3	67:D1:32:VAL:HG13	1.76	0.66
59:C3:63:ALA:HB3	59:C3:71:ILE:HD11	1.77	0.66
3:8:10:A:H2'	3:8:11:C:H6	1.60	0.66
31:o0:30:THR:HG22	31:o0:91:SER:HB3	1.76	0.66
38:o7:16:HIS:HB2	38:o7:25:ARG:O	1.95	0.66
59:c3:22:ALA:HB1	59:c3:23:PRO:HA	1.75	0.66
45:2:514:G:H22	45:2:543:C:H5	1.42	0.66
47:S1:27:LYS:HB3	47:S1:47:LEU:HD22	1.77	0.66
52:S6:57:ASP:HA	52:S6:106:LEU:HA	1.77	0.66
1:5:975:C:H2'	1:5:976:U:H6	1.58	0.66
1:5:1908:A:OP2	87:5:4269:HOH:O	2.13	0.66
1:5:2761:G:N7	43:q2:63:LYS:NZ	2.44	0.66
2:7:4:U:H2'	2:7:5:G:H8	1.60	0.66
3:8:38:U:C4	36:o5:89:ARG:HD2	2.30	0.66
9:l7:144:ILE:HD12	9:l7:189:ILE:HD12	1.75	0.66
27:n6:27:ARG:HA	27:n6:30:LEU:HD12	1.77	0.66
33:o2:41:VAL:HG12	33:o2:46:PHE:HB2	1.77	0.66
45:6:1207:C:N4	45:6:1456:C:H5	1.93	0.66
50:s4:249:ALA:O	50:s4:252:ARG:NH2	2.28	0.66
2:3:112:G:H2'	2:3:113:C:C6	2.30	0.66
6:L4:16:THR:HG22	6:L4:18:ASN:H	1.61	0.66
11:L9:47:LYS:HZ2	15:M4:6:ILE:H	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:S9:176:ASN:HA	55:S9:179:ARG:HG3	1.76	0.66
62:C6:31:VAL:N	62:C6:34:SER:O	2.24	0.66
1:5:2828:G:O2'	12:m0:4:ARG:NH1	2.26	0.66
8:l6:13:GLU:OE2	33:o2:90:LYS:N	2.25	0.66
22:n1:108:ARG:O	22:n1:112:ASN:HB2	1.96	0.66
81:n4:124:LYS:HA	81:n4:127:LYS:HG2	1.75	0.66
45:6:444:C:OP2	70:d4:108:ARG:NH2	2.26	0.66
45:6:967:A:OP2	59:c3:124:ARG:NH2	2.28	0.66
1:1:2137:U:OP2	1:1:2142:A:N6	2.28	0.66
11:L9:20:ILE:HB	15:M4:7:VAL:HG23	1.76	0.66
53:S7:82:GLU:O	53:S7:86:GLN:NE2	2.26	0.66
78:SR:248:ASN:OD1	78:SR:249:ARG:N	2.28	0.66
1:5:101:G:OP2	1:5:101:G:N2	2.28	0.66
1:5:976:U:H5'	19:m8:144:ARG:HH12	1.59	0.66
1:5:1235:U:H4'	1:5:1236:G:H5'	1.78	0.66
48:s2:170:ILE:HB	48:s2:197:TYR:HB2	1.78	0.66
50:s4:102:VAL:HG23	50:s4:182:TYR:HE1	1.59	0.66
1:1:3085:G:OP1	25:N4:34:SER:OG	2.12	0.66
1:1:3354:U:O4	54:S8:110:ARG:NH2	2.28	0.66
7:L5:58:LYS:HA	7:L5:93:THR:HB	1.77	0.66
1:5:290:G:H4'	16:m5:69:GLY:O	1.94	0.66
1:5:3242:G:H5''	1:5:3245:A:H8	1.59	0.66
45:6:1795:U:OP2	72:d6:5:ARG:NH2	2.29	0.66
48:s2:89:GLN:HA	48:s2:94:GLN:HA	1.77	0.66
64:c8:46:VAL:HG11	64:c8:73:MET:HE3	1.78	0.66
1:1:1119:C:H2'	1:1:1120:A:C8	2.31	0.66
1:1:3369:G:N1	5:L3:380:MET:O	2.28	0.66
20:M9:102:LEU:HD22	20:M9:138:LEU:HD12	1.77	0.66
45:2:1783:C:H2'	45:2:1784:C:C6	2.30	0.66
1:5:673:U:OP1	19:m8:21:SER:OG	2.12	0.66
5:l3:211:GLN:HE21	5:l3:284:ARG:HA	1.59	0.66
12:m0:14:ASN:O	12:m0:128:ARG:NH2	2.24	0.66
19:m8:100:THR:HG22	19:m8:120:GLU:HB3	1.78	0.66
45:6:1171:A:H2'	45:6:1172:G:C8	2.31	0.66
45:6:1690:G:H1	45:6:1711:C:H42	1.44	0.66
5:L3:292:ALA:HB1	5:L3:295:ALA:HB3	1.78	0.66
8:L6:3:ALA:HB2	33:O2:77:ALA:HB2	1.78	0.66
14:M3:94:GLY:HA3	36:O5:116:TYR:OH	1.96	0.66
22:N1:38:ASP:O	22:N1:64:VAL:HG12	1.96	0.66
47:S1:117:TRP:HE1	47:S1:152:ARG:HD3	1.60	0.66
60:C4:30:VAL:HG13	60:C4:39:ILE:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:680:U:O2'	45:6:682:C:OP2	2.13	0.66
45:6:755:A:H2'	45:6:756:A:C8	2.31	0.66
1:1:853:G:N7	44:Q3:2:ALA:N	2.44	0.66
4:L2:29:LEU:HA	4:L2:76:PHE:HE1	1.60	0.66
21:N0:137:ARG:HG2	21:N0:139:TYR:CE1	2.30	0.66
34:O3:10:LYS:HB2	34:O3:33:GLU:HG3	1.76	0.66
45:2:751:G:H2'	45:2:752:A:H8	1.61	0.66
78:SR:299:GLN:NE2	78:SR:315:VAL:O	2.29	0.66
1:5:398:A:O2'	1:5:1416:C:OP1	2.10	0.66
1:5:3194:C:O2'	1:5:3195:U:O2	2.14	0.66
7:15:68:THR:HG22	7:15:70:THR:N	2.11	0.66
45:2:734:A:H5'	45:2:735:C:OP1	1.96	0.65
45:2:791:A:H2'	45:2:792:U:H6	1.61	0.65
1:5:524:U:OP1	15:m4:77:ARG:NH2	2.28	0.65
44:q3:73:THR:HG22	44:q3:75:ALA:H	1.60	0.65
67:d1:51:VAL:HG11	67:d1:78:LEU:HD21	1.77	0.65
1:1:2960:C:H2'	1:1:2961:G:C8	2.31	0.65
18:M7:54:HIS:O	18:M7:72:GLN:NE2	2.29	0.65
45:2:885:G:OP1	47:S1:136:ARG:NH1	2.28	0.65
46:S0:179:ARG:HD3	46:S0:183:ARG:HH11	1.61	0.65
64:C8:146:ALA:N	79:SM:68:ARG:HH22	1.94	0.65
1:5:213:A:OP1	27:n6:2:ALA:N	2.29	0.65
1:5:1255:C:H2'	1:5:1256:G:H8	1.62	0.65
6:14:29:PRO:HG3	6:14:279:HIS:CD2	2.31	0.65
6:14:300:ARG:NH2	19:m8:38:ARG:O	2.25	0.65
15:m4:19:ARG:HA	15:m4:69:THR:HG22	1.77	0.65
33:o2:79:VAL:HG13	33:o2:111:ARG:HG2	1.77	0.65
45:6:793:A:C3'	45:6:794:U:H5'	2.26	0.65
62:c6:93:HIS:HA	62:c6:97:VAL:HG12	1.77	0.65
64:c8:30:TYR:HE2	64:c8:40:ARG:HH11	1.44	0.65
1:1:591:G:O6	87:1:4153:HOH:O	2.12	0.65
1:1:2870:C:OP1	87:1:4162:HOH:O	2.13	0.65
5:L3:89:VAL:CG2	5:L3:195:ALA:HB1	2.21	0.65
37:O6:60:LEU:HD12	37:O6:72:VAL:HG11	1.79	0.65
45:2:24:U:OP1	55:S9:10:LYS:NZ	2.28	0.65
45:2:139:C:H4'	45:2:140:A:O5'	1.96	0.65
45:2:1559:A:C6	64:C8:134:ARG:HD2	2.32	0.65
57:C1:6:THR:C	57:C1:8:GLN:H	2.04	0.65
58:C2:124:LYS:O	58:C2:125:ASN:ND2	2.29	0.65
60:C4:85:ALA:H	60:C4:119:THR:HG22	1.61	0.65
66:D0:58:LEU:HD12	66:D0:88:LYS:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l9:31:ARG:HH22	11:l9:188:THR:HG21	1.61	0.65
17:m6:74:ARG:O	17:m6:142:SER:OG	2.14	0.65
45:6:1080:U:O2'	45:6:1081:A:H5'	1.95	0.65
1:1:507:U:H2'	1:1:508:U:H6	1.61	0.65
1:1:1294:A:O2'	1:1:1295:G:H5''	1.96	0.65
11:L9:189:GLU:C	11:L9:191:LEU:H	2.05	0.65
45:2:649:U:O2'	45:2:650:U:O5'	2.12	0.65
45:2:992:A:O2'	45:2:1785:U:O2	2.14	0.65
46:S0:126:PRO:HG2	46:S0:152:PRO:HD2	1.78	0.65
48:S2:54:GLU:HG3	67:D1:11:LEU:HD13	1.78	0.65
1:5:1497:C:OP2	87:5:4268:HOH:O	2.13	0.65
6:l4:327:LEU:HA	9:l7:166:ASN:HD21	1.61	0.65
40:o9:23:LEU:HD12	40:o9:28:ARG:HD3	1.79	0.65
45:6:1275:A:N3	49:s3:141:LYS:NZ	2.45	0.65
1:1:437:G:H2'	1:1:438:A:O4'	1.97	0.65
1:1:1334:U:O2'	9:L7:151:ARG:NH2	2.26	0.65
13:M1:92:ARG:HG3	13:M1:173:ASP:HB2	1.78	0.65
27:N6:3:LYS:HG3	27:N6:8:VAL:HB	1.79	0.65
28:N7:95:VAL:HG21	28:N7:113:VAL:HG11	1.76	0.65
36:O5:85:THR:HG22	36:O5:87:ALA:N	2.10	0.65
45:2:1041:G:H2'	45:2:1042:G:C8	2.32	0.65
64:C8:91:ASP:OD1	64:C8:92:ILE:N	2.22	0.65
68:D2:31:SER:OG	68:D2:34:ILE:N	2.24	0.65
1:5:321:C:OP2	87:5:4270:HOH:O	2.14	0.65
85:5:4178:LLL:H11A	85:5:4178:LLL:H322	1.42	0.65
7:l5:79:TYR:HB2	7:l5:81:HIS:CD2	2.32	0.65
15:m4:55:ARG:NH2	15:m4:76:ALA:O	2.30	0.65
19:m8:57:ILE:HD11	19:m8:147:ARG:HD3	1.77	0.65
45:6:244:A:OP1	50:s4:155:LYS:NZ	2.27	0.65
45:6:307:G:OP2	57:c1:105:LYS:NZ	2.29	0.65
45:6:1230:A:H2'	45:6:1258:U:C5	2.31	0.65
45:6:1709:C:H2'	45:6:1710:U:C6	2.31	0.65
58:c2:125:ASN:HA	79:sM:168:GLU:O	1.97	0.65
61:c5:87:PRO:HA	61:c5:90:ILE:HG13	1.79	0.65
45:2:520:A:H2'	45:2:521:A:C8	2.31	0.65
45:2:1755:A:N3	45:2:1756:A:H4'	2.10	0.65
77:E1:133:ALA:O	77:E1:139:LEU:HA	1.97	0.65
1:5:676:G:H3'	19:m8:107:THR:HG21	1.79	0.65
1:5:1331:U:OP1	85:5:4159:LLL:N21	2.30	0.65
1:5:2798:C:OP1	87:5:4254:HOH:O	2.13	0.65
5:l3:92:TYR:HE1	5:l3:159:ARG:HD2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:17:160:ARG:HD2	9:17:203:TRP:CD1	2.31	0.65
11:19:117:PHE:CZ	11:19:165:CYS:HB3	2.32	0.65
46:s0:24:LEU:HD11	46:s0:41:ARG:HH22	1.61	0.65
48:s2:53:ILE:HG13	48:s2:72:LEU:HB3	1.78	0.65
49:s3:209:ILE:O	63:c7:20:TYR:OH	2.11	0.65
55:s9:83:VAL:HG12	55:s9:149:ARG:HG2	1.78	0.65
1:1:155:G:H5''	1:1:156:G:C8	2.31	0.65
1:1:3230:G:H4'	15:M4:132:LYS:HD3	1.77	0.65
19:M8:176:ARG:NH1	29:N8:46:ASP:OD2	2.30	0.65
1:5:222:A:N6	85:5:4171:LLL:O43	2.30	0.65
1:5:665:A:H2'	1:5:666:A:C8	2.32	0.65
1:5:1631:C:H5''	1:5:1632:A:H5''	1.78	0.65
1:5:1778:G:H22	1:5:2101:C:N4	1.92	0.65
1:5:2697:A:H2'	1:5:2698:G:C8	2.32	0.65
1:5:2724:U:H4'	22:n1:54:HIS:CD2	2.31	0.65
45:6:1342:C:H2'	45:6:1343:U:H6	1.62	0.65
53:s7:69:GLY:HA2	53:s7:72:LYS:HE3	1.77	0.65
71:d5:85:LYS:HG3	71:d5:86:GLU:N	2.08	0.65
1:1:372:A:H2'	1:1:373:A:C8	2.32	0.65
7:L5:60:ILE:HB	7:L5:80:SER:HB3	1.79	0.65
11:L9:161:LEU:O	11:L9:164:ILE:HG22	1.97	0.65
11:L9:171:ASP:OD2	11:L9:173:ARG:NH1	2.29	0.65
35:O4:67:LYS:HA	35:O4:70:LYS:HE2	1.79	0.65
45:2:73:U:H4'	45:2:74:U:OP1	1.95	0.65
46:S0:134:LYS:O	46:S0:137:SER:OG	2.13	0.65
45:6:274:G:H1	45:6:282:C:H42	1.45	0.65
45:6:641:G:O2'	53:s7:178:GLY:O	2.15	0.65
46:s0:3:LEU:HB2	46:s0:7:PHE:HD1	1.62	0.65
48:s2:179:VAL:O	48:s2:198:THR:OG1	2.10	0.65
45:2:1186:U:OP1	45:2:1456:C:O2'	2.15	0.65
61:C5:87:PRO:HA	61:C5:90:ILE:HG13	1.77	0.65
66:D0:22:ILE:HG22	66:D0:93:LEU:HB2	1.77	0.65
1:5:498:A:O2'	1:5:3273:A:N1	2.29	0.65
1:5:585:A:OP1	34:o3:70:LYS:HE2	1.97	0.65
7:l5:177:GLU:O	7:l5:179:ARG:N	2.30	0.65
16:m5:96:ARG:NH2	16:m5:104:GLU:OE1	2.30	0.65
51:s5:41:LYS:HZ1	51:s5:68:ILE:HA	1.62	0.65
3:4:30:C:H2'	3:4:31:G:H8	1.62	0.65
6:L4:195:ARG:HB2	6:L4:197:ARG:HH21	1.61	0.65
8:L6:43:LEU:HD11	8:L6:85:ILE:HG13	1.78	0.65
27:N6:55:GLU:HB2	27:N6:108:LYS:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:4:C:OP2	48:S2:200:SER:OG	2.15	0.65
45:2:150:U:OP1	70:D4:123:LYS:NZ	2.28	0.65
61:C5:14:THR:HB	61:C5:22:LEU:HB2	1.78	0.65
1:5:838:G:O6	44:q3:4:ARG:NH2	2.30	0.65
10:l8:70:LYS:HA	10:l8:235:GLY:HA3	1.80	0.65
18:m7:126:ARG:HD2	18:m7:140:GLU:OE2	1.98	0.65
45:6:1420:C:OP1	75:d9:54:LYS:NZ	2.21	0.65
45:6:1502:G:N7	65:c9:102:ARG:NH2	2.44	0.65
64:c8:88:ARG:NH1	64:c8:112:ASP:OD2	2.30	0.65
67:d1:71:ARG:HG3	67:d1:83:TRP:CZ2	2.32	0.65
45:2:961:U:H5''	59:C3:71:ILE:HD13	1.79	0.64
45:2:979:A:N3	45:2:1775:U:O2'	2.30	0.64
54:S8:36:THR:HA	54:S8:58:LEU:HA	1.79	0.64
64:C8:145:ARG:HB3	79:SM:68:ARG:CZ	2.27	0.64
1:5:914:A:C2	4:l2:204:MET:HG2	2.31	0.64
6:l4:58:HIS:HA	6:l4:90:PHE:HE1	1.62	0.64
7:l5:60:ILE:HB	7:l5:80:SER:HB3	1.78	0.64
82:p0:25:LEU:HD21	82:p0:76:LEU:HD11	1.79	0.64
45:6:247:A:O2'	57:c1:37:ASN:O	2.11	0.64
45:6:512:A:H2'	45:6:513:U:H6	1.62	0.64
45:6:1423:U:OP1	49:s3:151:LYS:NZ	2.30	0.64
45:6:1606:C:H2'	45:6:1607:G:C8	2.32	0.64
61:c5:53:PRO:O	61:c5:56:PHE:N	2.28	0.64
66:d0:103:ILE:HD13	66:d0:106:ILE:HG21	1.78	0.64
78:sR:161:ALA:C	78:sR:163:ASP:H	2.05	0.64
19:M8:57:ILE:HD11	19:M8:147:ARG:CZ	2.27	0.64
21:N0:77:VAL:HG13	21:N0:126:VAL:HG22	1.79	0.64
40:O9:9:ILE:HD11	40:O9:51:ILE:HG12	1.78	0.64
45:2:229:U:H3	45:2:236:A:H61	1.45	0.64
45:2:865:A:OP1	68:D2:28:ARG:NH2	2.26	0.64
45:2:1073:G:H4'	59:C3:10:GLY:HA2	1.79	0.64
45:2:1207:C:N4	45:2:1456:C:H41	1.94	0.64
45:2:1304:G:OP2	45:2:1305:U:O2'	2.15	0.64
46:S0:189:VAL:HG13	46:S0:193:GLN:HB2	1.79	0.64
54:S8:82:VAL:O	54:S8:200:LYS:NZ	2.30	0.64
79:SM:84:LYS:HE2	79:SM:86:ASN:HA	1.79	0.64
1:5:1778:G:H4'	1:5:1778:G:OP1	1.96	0.64
1:5:3377:G:O6	85:5:4164:LLL:N12	2.30	0.64
3:8:21:C:OP1	6:l4:193:LYS:NZ	2.30	0.64
8:l6:63:LEU:HB2	8:l6:79:VAL:HG12	1.79	0.64
9:l7:47:ARG:NH2	9:l7:179:LEU:HD11	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:o2:6:HIS:ND1	33:o2:7:PRO:O	2.30	0.64
62:c6:49:TYR:HB3	62:c6:53:LEU:HD11	1.79	0.64
62:c6:55:VAL:HG21	62:c6:105:LEU:HG	1.79	0.64
62:c6:82:ARG:HH12	62:c6:114:ARG:HB2	1.62	0.64
70:d4:45:ALA:HA	70:d4:50:ALA:HB3	1.77	0.64
78:sR:19:TRP:HB2	78:sR:38:ARG:HG3	1.79	0.64
79:sM:97:THR:HB	79:sM:99:LYS:HB2	1.78	0.64
79:sM:112:ASP:HB3	79:sM:115:LYS:HD2	1.79	0.64
11:L9:22:SER:OG	11:L9:23:ARG:N	2.27	0.64
12:M0:24:ARG:HB2	12:M0:24:ARG:HH11	1.61	0.64
24:N3:87:ARG:NE	24:N3:121:GLU:OE2	2.29	0.64
28:N7:51:LEU:HB2	28:N7:65:ARG:HD3	1.79	0.64
55:S9:54:ARG:HA	55:S9:57:ARG:HE	1.62	0.64
1:5:2207:A:H2'	1:5:2208:A:O4'	1.97	0.64
1:5:3122:A:N1	11:l9:70:THR:HG21	2.13	0.64
54:s8:10:LYS:HG2	57:c1:133:LYS:HE3	1.79	0.64
65:c9:125:SER:OG	65:c9:128:GLY:N	2.24	0.64
1:1:2946:A:N7	87:1:4191:HOH:O	2.30	0.64
1:1:2992:U:H1'	18:M7:69:ARG:HH21	1.62	0.64
3:4:83:C:H42	27:N6:52:ARG:HH22	1.44	0.64
6:L4:229:ASN:OD1	6:L4:230:VAL:N	2.31	0.64
29:N8:46:ASP:O	29:N8:47:LYS:HG2	1.97	0.64
36:O5:21:LEU:HD22	36:O5:25:LYS:HE3	1.79	0.64
45:2:1240:U:O4	61:C5:59:LYS:NZ	2.27	0.64
45:2:1474:G:H2'	45:2:1475:A:C8	2.32	0.64
45:2:1756:A:N3	45:2:1756:A:OP2	2.30	0.64
49:S3:113:LEU:HD11	49:S3:117:ARG:HD2	1.78	0.64
52:S6:141:ILE:HB	52:S6:153:VAL:HG11	1.78	0.64
62:C6:14:LYS:O	62:C6:123:ARG:NH2	2.28	0.64
12:m0:153:ARG:HG3	12:m0:156:ARG:HH21	1.63	0.64
45:6:947:U:H2'	45:6:948:G:C8	2.33	0.64
45:6:1280:C:O2'	66:d0:70:THR:HG23	1.97	0.64
45:6:1713:G:H2'	45:6:1714:A:H8	1.63	0.64
47:s1:125:VAL:HG11	47:s1:173:THR:HG23	1.79	0.64
59:c3:87:ASP:HB3	59:c3:125:LEU:HD11	1.80	0.64
12:M0:76:MET:HE2	12:M0:148:VAL:HA	1.78	0.64
71:D5:94:LYS:HG2	71:D5:95:HIS:HB3	1.80	0.64
1:5:1049:C:H2'	1:5:1050:U:C6	2.32	0.64
1:5:1632:A:H2'	1:5:1633:C:C6	2.32	0.64
6:l4:146:PRO:HD2	6:l4:150:LEU:HD21	1.78	0.64
23:n2:77:LYS:HG2	23:n2:81:LYS:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:n5:38:LEU:HD22	26:n5:40:LEU:HD22	1.79	0.64
45:6:795:U:H5'	45:6:796:A:OP2	1.98	0.64
45:6:1796:C:O2'	72:d6:95:ARG:NH1	2.30	0.64
72:d6:10:ARG:NH1	72:d6:36:ILE:HG13	2.13	0.64
1:1:92:G:OP2	1:1:93:C:H5''	1.98	0.64
1:1:2256:A:H4'	1:1:2257:C:OP2	1.97	0.64
5:L3:7:GLU:OE1	87:L3:501:HOH:O	2.14	0.64
19:M8:122:ILE:HG23	19:M8:126:GLN:HB2	1.80	0.64
45:2:736:C:H2'	45:2:737:A:H5'	1.78	0.64
45:2:1064:G:H2'	45:2:1065:A:C8	2.33	0.64
48:S2:67:GLN:HA	48:S2:70:ASP:HB2	1.80	0.64
1:5:562:C:OP2	15:m4:77:ARG:NH1	2.30	0.64
1:5:655:C:H2'	1:5:656:A:C8	2.32	0.64
14:m3:56:PRO:HG3	14:m3:74:GLY:O	1.98	0.64
45:6:973:A:H2'	45:6:974:A:H8	1.62	0.64
72:d6:10:ARG:HH12	72:d6:36:ILE:HG13	1.62	0.64
1:1:2683:U:H2'	1:1:2684:C:C6	2.32	0.64
7:L5:40:HIS:CE1	7:L5:42:ALA:HB3	2.33	0.64
9:L7:178:ILE:HA	9:L7:183:ASP:HB3	1.80	0.64
13:M1:14:ILE:HG13	13:M1:131:MET:SD	2.38	0.64
45:2:1429:G:H1'	66:D0:74:GLU:HG2	1.80	0.64
47:S1:34:ALA:HB3	47:S1:41:ARG:HA	1.79	0.64
75:D9:5:ASN:OD1	75:D9:6:VAL:HG23	1.96	0.64
1:5:1759:C:H42	1:5:1766:G:H1	1.44	0.64
1:5:2971:A:H4'	1:5:2972:G:OP1	1.98	0.64
12:m0:80:SER:HB2	12:m0:147:VAL:HG11	1.80	0.64
14:m3:167:PHE:CE1	29:n8:132:LYS:HE2	2.32	0.64
19:m8:67:ILE:HG23	19:m8:81:VAL:HG21	1.78	0.64
45:6:75:U:O2'	45:6:76:A:O5'	2.14	0.64
46:s0:55:GLU:HB3	67:d1:79:LEU:HD22	1.80	0.64
52:s6:67:VAL:HG21	52:s6:99:GLY:HA2	1.80	0.64
68:d2:23:ARG:HB2	73:d7:4:VAL:HG12	1.79	0.64
1:1:501:A:H2'	1:1:502:U:C6	2.33	0.64
1:1:980:A:H2'	1:1:981:U:O4'	1.97	0.64
7:L5:86:TYR:CE1	7:L5:247:ILE:HA	2.32	0.64
11:L9:3:TYR:HA	21:N0:142:GLN:OE1	1.97	0.64
11:L9:49:ASN:HD21	11:L9:51:GLN:HB2	1.62	0.64
22:N1:136:ARG:HD3	22:N1:139:ARG:HH11	1.61	0.64
24:N3:103:ALA:HA	24:N3:109:MET:HA	1.79	0.64
25:N4:6:ASP:HB3	25:N4:10:GLY:H	1.62	0.64
28:N7:46:ILE:HD13	28:N7:68:ILE:HG23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:C1:78:THR:HA	57:C1:84:ILE:HG22	1.80	0.64
72:D6:38:ARG:HE	72:D6:83:ILE:HG22	1.63	0.64
76:E0:47:VAL:HG22	76:E0:48:THR:H	1.62	0.64
1:5:1471:U:OP1	20:m9:5:ARG:NH1	2.31	0.64
1:5:1621:A:H62	1:5:1820:U:H3	1.45	0.64
6:l4:10:SER:OG	6:l4:13:GLY:O	2.13	0.64
13:m1:151:SER:O	13:m1:152:HIS:HB2	1.98	0.64
19:m8:153:PHE:O	19:m8:161:LYS:HG2	1.97	0.64
34:o3:31:LYS:NZ	34:o3:35:VAL:O	2.30	0.64
45:6:1227:A:C2	58:c2:43:ARG:HD2	2.33	0.64
45:6:1473:U:C2	51:s5:190:ILE:HD13	2.33	0.64
45:6:1533:C:H4'	45:6:1539:G:N1	2.13	0.64
64:c8:4:VAL:HG21	71:d5:82:HIS:HB2	1.80	0.64
64:c8:94:ASP:OD1	64:c8:98:TYR:OH	2.16	0.64
1:1:776:U:H5	1:1:2719:U:O2	1.79	0.64
4:L2:30:ARG:O	4:L2:163:ARG:NH2	2.29	0.64
12:M0:47:PRO:HD2	12:M0:141:LYS:HA	1.79	0.64
45:2:196:G:O2'	45:2:197:A:OP2	2.14	0.64
70:D4:27:VAL:HG11	70:D4:35:VAL:HG11	1.80	0.64
1:5:1449:A:OP1	87:5:4272:HOH:O	2.15	0.64
22:n1:73:GLY:HA2	22:n1:89:LEU:O	1.98	0.64
24:n3:89:ASP:OD1	24:n3:91:VAL:HG12	1.98	0.64
28:n7:129:TRP:O	28:n7:130:PHE:HB3	1.96	0.64
34:o3:52:VAL:HG22	34:o3:66:VAL:HG22	1.78	0.64
45:6:1621:U:H2'	45:6:1622:G:C8	2.33	0.64
50:s4:178:GLY:HA2	50:s4:195:ILE:HB	1.79	0.64
57:c1:133:LYS:O	57:c1:136:ARG:NH1	2.30	0.64
1:1:1369:A:OP1	29:N8:21:ARG:NH1	2.31	0.64
1:1:1657:C:O2'	1:1:1797:A:OP2	2.09	0.64
3:4:70:G:H22	85:4:224:LLL:H212	1.44	0.64
11:L9:93:VAL:HG12	41:Q0:82:LEU:HD13	1.78	0.64
14:M3:48:PRO:HA	14:M3:137:GLN:HB3	1.78	0.64
47:S1:105:PHE:CD2	47:S1:213:ARG:HA	2.33	0.64
50:S4:192:ILE:HG13	50:S4:243:GLY:HA3	1.79	0.64
54:S8:184:LEU:HB3	54:S8:189:LEU:HB2	1.80	0.64
64:C8:14:ILE:HD11	64:C8:21:ASN:HB3	1.80	0.64
1:5:787:G:H2'	1:5:788:C:C6	2.33	0.64
1:5:900:G:H2'	1:5:901:G:H8	1.63	0.64
24:n3:135:VAL:HG11	81:n4:26:SER:OG	1.98	0.64
59:c3:91:LEU:HD12	59:c3:125:LEU:HD12	1.80	0.64
1:1:361:A:O3'	38:O7:45:ARG:NH2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:899:U:O4	85:1:4000:LLL:H32	1.97	0.63
1:1:979:U:H1'	1:1:980:A:C5	2.33	0.63
1:1:1927:G:OP2	44:Q3:6:LYS:N	2.29	0.63
7:L5:40:HIS:CD2	22:N1:69:LYS:HA	2.33	0.63
7:L5:232:ASP:O	7:L5:235:SER:OG	2.16	0.63
45:2:45:U:O2'	45:2:46:A:H2'	1.98	0.63
45:2:1275:A:N3	49:S3:141:LYS:NZ	2.46	0.63
85:8:222:LLL:O52	85:8:222:LLL:N21	2.30	0.63
14:m3:126:PHE:HB2	36:o5:115:LYS:HG2	1.79	0.63
45:6:753:A:N7	50:s4:187:ARG:NH2	2.45	0.63
45:6:1339:C:O2'	45:6:1341:A:N7	2.30	0.63
72:d6:60:PRO:O	72:d6:61:GLU:HG3	1.97	0.63
73:d7:53:ALA:HB1	73:d7:62:ILE:HD11	1.80	0.63
1:1:75:G:H5''	14:M3:58:VAL:HG13	1.81	0.63
1:1:2631:U:H2'	1:1:2632:G:H8	1.63	0.63
13:M1:20:ASN:HB3	13:M1:126:ASP:HB2	1.80	0.63
45:2:70:C:H2'	45:2:71:A:O4'	1.98	0.63
45:2:1401:A:OP1	63:C7:60:ARG:NH1	2.31	0.63
45:2:1616:G:O2'	74:D8:18:ARG:NH1	2.32	0.63
49:S3:141:LYS:HE3	49:S3:179:GLN:HB3	1.81	0.63
1:5:911:C:N4	4:l2:3:ARG:HD3	2.11	0.63
20:m9:163:ARG:NH2	45:6:813:U:O2	2.32	0.63
44:q3:49:ARG:NH1	44:q3:51:ALA:O	2.31	0.63
55:s9:133:HIS:CD2	55:s9:162:SER:HB2	2.32	0.63
75:d9:7:TRP:CD1	75:d9:7:TRP:N	2.67	0.63
1:1:768:C:OP1	14:M3:186:ARG:NH2	2.31	0.63
1:1:3182:G:H4'	17:M6:161:LYS:HD3	1.78	0.63
1:1:3375:A:O2'	1:1:3378:C:OP2	2.16	0.63
22:N1:28:SER:HA	22:N1:31:LEU:HB2	1.80	0.63
45:2:74:U:H1'	45:2:75:U:C5'	2.21	0.63
45:2:82:U:H2'	45:2:83:G:O4'	1.98	0.63
45:2:1280:C:H2'	45:2:1281:G:C8	2.31	0.63
61:C5:52:LYS:CG	61:C5:53:PRO:HD3	2.28	0.63
72:D6:37:LYS:O	72:D6:38:ARG:NH1	2.31	0.63
1:5:2771:U:O2'	1:5:2772:C:O4'	2.13	0.63
12:m0:86:HIS:HB3	12:m0:139:ARG:HG2	1.79	0.63
45:6:676:G:C2'	45:6:677:G:H5'	2.28	0.63
45:6:1795:U:OP2	72:d6:4:LYS:NZ	2.30	0.63
46:s0:63:ILE:HG12	67:d1:36:VAL:HG22	1.79	0.63
51:s5:90:ILE:O	51:s5:94:THR:HG23	1.98	0.63
70:d4:15:ASN:N	70:d4:20:ARG:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:255:A:H2'	1:1:256:G:C8	2.34	0.63
1:1:1063:G:N7	1:1:1097:G:H2'	2.14	0.63
19:M8:40:THR:HG21	19:M8:45:ASN:ND2	2.12	0.63
21:N0:82:ASP:OD1	21:N0:87:THR:HB	1.98	0.63
40:O9:10:LYS:HA	40:O9:13:MET:HE3	1.80	0.63
49:S3:59:LEU:HA	49:S3:66:ILE:HG13	1.80	0.63
1:5:1826:C:N4	85:5:4162:LLL:H312	2.12	0.63
6:l4:138:ARG:HE	6:l4:240:PRO:HD2	1.63	0.63
14:m3:48:PRO:HA	14:m3:137:GLN:HB2	1.81	0.63
16:m5:42:PRO:HG2	16:m5:53:TYR:CE2	2.33	0.63
20:m9:99:LEU:HD11	20:m9:103:ARG:CZ	2.29	0.63
24:n3:18:PRO:HA	24:n3:51:ALA:HA	1.81	0.63
26:n5:132:ALA:HA	26:n5:135:ILE:HG22	1.79	0.63
45:6:652:G:OP1	45:6:653:C:N4	2.32	0.63
85:6:2169:LLL:O23	85:6:2169:LLL:N12	2.26	0.63
70:d4:44:LEU:HA	70:d4:47:VAL:HG12	1.80	0.63
3:4:95:G:OP2	38:O7:72:ARG:NH1	2.32	0.63
5:L3:41:VAL:HA	5:L3:185:GLY:HA3	1.79	0.63
22:N1:56:PHE:CE1	22:N1:78:LYS:HD3	2.34	0.63
23:N2:51:GLY:O	23:N2:52:ASN:ND2	2.31	0.63
45:2:591:A:H2'	45:2:592:A:C8	2.33	0.63
45:2:992:A:H2	45:2:1012:U:H3	1.44	0.63
51:S5:184:PHE:HE1	51:S5:185:ARG:HH21	1.45	0.63
1:5:148:G:OP2	16:m5:4:TYR:OH	2.09	0.63
1:5:369:A:OP2	85:5:4154:LLL:O52	2.16	0.63
1:5:977:C:OP1	19:m8:141:ARG:NH2	2.31	0.63
1:5:1813:A:O2'	1:5:1816:A:N3	2.27	0.63
1:5:2609:A:H1'	16:m5:87:GLN:NE2	2.14	0.63
2:7:36:C:O2	2:7:45:A:H1'	1.98	0.63
82:p0:91:GLU:HG2	82:p0:92:PRO:HD2	1.79	0.63
46:s0:118:PRO:HG2	46:s0:141:ILE:HD13	1.79	0.63
1:1:1323:G:O3'	21:N0:2:ALA:HA	1.99	0.63
1:1:2836:C:H5	1:1:2852:C:N4	1.94	0.63
17:M6:61:ALA:HA	17:M6:70:PRO:HD2	1.81	0.63
22:N1:102:ARG:HG3	22:N1:106:LEU:HD21	1.81	0.63
45:2:546:U:O4	45:2:592:A:N6	2.18	0.63
45:2:753:A:H5'	50:S4:221:ARG:HG3	1.80	0.63
46:S0:121:VAL:HB	46:S0:143:VAL:HG22	1.80	0.63
51:S5:57:SER:C	51:S5:59:VAL:H	2.06	0.63
66:D0:118:VAL:HG22	66:D0:119:ALA:HA	1.80	0.63
78:SR:36:ALA:HB1	78:SR:68:VAL:HG12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:SR:80:ALA:HB3	78:SR:92:TRP:HB2	1.79	0.63
79:SM:84:LYS:HG2	79:SM:86:ASN:H	1.63	0.63
2:7:39:C:H4'	13:m1:44:THR:HG23	1.79	0.63
5:l3:147:GLU:HA	5:l3:150:ARG:HB3	1.79	0.63
36:o5:54:VAL:O	36:o5:58:ILE:HG13	1.99	0.63
45:6:1524:A:H2'	45:6:1525:A:C8	2.34	0.63
51:s5:118:LEU:HA	51:s5:121:ILE:HD12	1.81	0.63
70:d4:58:PHE:CE2	70:d4:72:PHE:HB3	2.33	0.63
2:3:76:A:O2'	21:N0:50:LYS:NZ	2.31	0.63
16:M5:143:ARG:NH2	36:O5:92:LEU:HD23	2.12	0.63
45:2:1305:U:OP2	45:2:1306:C:N4	2.32	0.63
48:S2:78:ASP:HA	48:S2:104:VAL:HG12	1.80	0.63
54:S8:76:THR:HB	54:S8:105:ASP:HB2	1.80	0.63
68:D2:36:LYS:HB2	68:D2:110:ILE:HD12	1.79	0.63
14:m3:14:PHE:HB3	14:m3:18:TRP:CD1	2.33	0.63
27:n6:102:SER:OG	27:n6:103:LYS:NZ	2.31	0.63
28:n7:54:THR:H	28:n7:57:HIS:CD2	2.16	0.63
47:s1:30:PHE:HB3	47:s1:96:LEU:HD11	1.79	0.63
50:s4:102:VAL:HG23	50:s4:182:TYR:CE1	2.34	0.63
1:1:541:U:H2'	1:1:542:G:C8	2.33	0.63
1:1:2406:C:H2'	1:1:2407:C:C6	2.34	0.63
15:M4:55:ARG:NH2	15:M4:76:ALA:O	2.32	0.63
16:M5:172:ARG:O	16:M5:183:THR:OG1	2.17	0.63
32:O1:23:VAL:O	32:O1:28:ARG:NH1	2.31	0.63
45:2:325:G:H4'	57:C1:83:THR:HG21	1.81	0.63
45:2:1474:G:H2'	45:2:1475:A:H8	1.63	0.63
45:2:1755:A:C2'	45:2:1756:A:C5'	2.56	0.63
51:S5:77:TYR:HA	51:S5:83:ARG:HG2	1.80	0.63
1:5:712:G:H2'	1:5:713:U:C6	2.33	0.63
6:l4:314:LYS:HD2	9:l7:162:PRO:HB3	1.79	0.63
21:n0:2:ALA:HB3	21:n0:32:SER:HB3	1.81	0.63
45:6:767:U:H5	55:s9:143:ILE:HD13	1.62	0.63
45:6:1330:G:H22	49:s3:204:ASP:CG	2.07	0.63
45:6:1552:U:O4	61:c5:40:ARG:NH2	2.22	0.63
46:s0:90:ALA:HA	46:s0:95:ALA:HB3	1.81	0.63
50:s4:121:TYR:OH	50:s4:235:TYR:O	2.14	0.63
64:c8:62:THR:N	64:c8:65:GLU:OE1	2.30	0.63
1:1:369:A:OP2	85:1:3991:LLL:O52	2.13	0.63
1:1:1110:U:H2'	1:1:1111:U:C6	2.34	0.63
1:1:1603:A:OP1	20:M9:38:ARG:NH1	2.32	0.63
4:L2:90:ALA:HA	4:L2:101:VAL:HG13	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L8:94:PHE:HE1	10:L8:150:LEU:HD12	1.64	0.63
48:S2:38:VAL:HG22	48:S2:39:THR:H	1.63	0.63
61:C5:130:ARG:HD3	79:SM:74:LYS:HG2	1.80	0.63
72:D6:96:ALA:C	72:D6:98:PRO:HD2	2.23	0.63
1:5:90:C:H2'	1:5:91:G:H5'	1.80	0.63
1:5:2393:G:C4'	5:l3:252:ILE:HD12	2.28	0.63
1:5:3334:U:H4'	1:5:3335:A:H5''	1.79	0.63
19:m8:23:ASN:HB3	19:m8:26:LEU:HB2	1.81	0.63
34:o3:59:VAL:HG23	34:o3:60:ARG:H	1.64	0.63
48:s2:79:GLU:HG2	48:s2:81:MET:HE3	1.81	0.63
1:1:1569:U:H5''	1:1:1570:U:H6	1.64	0.62
1:1:3267:A:H2'	8:L6:69:PHE:CZ	2.34	0.62
49:S3:38:GLU:HG3	49:S3:49:ILE:HB	1.80	0.62
63:C7:100:LEU:O	63:C7:120:SER:OG	2.15	0.62
65:C9:135:ILE:O	65:C9:139:THR:OG1	2.16	0.62
1:5:230:U:H2'	1:5:231:G:O4'	1.98	0.62
1:5:2878:G:H5''	5:l3:5:LYS:HE3	1.81	0.62
7:l5:41:LYS:HB2	22:n1:68:THR:O	1.98	0.62
18:m7:29:THR:HG22	18:m7:87:SER:OG	2.00	0.62
81:n4:117:LYS:NZ	45:6:278:U:O2	2.26	0.62
30:n9:11:ASN:OD1	30:n9:14:ARG:HD2	1.99	0.62
45:6:327:U:H2'	45:6:328:A:H8	1.64	0.62
68:d2:56:HIS:H	68:d2:57:ARG:HH11	1.47	0.62
1:1:87:U:OP2	14:M3:11:LYS:NZ	2.32	0.62
1:1:1227:C:H42	1:1:1282:G:H1	1.47	0.62
3:4:69:U:O4	85:4:224:LLL:N21	2.32	0.62
7:L5:103:LEU:HG	7:L5:247:ILE:HG21	1.81	0.62
11:L9:149:ASN:N	11:L9:149:ASN:OD1	2.30	0.62
14:M3:129:ASN:OD1	14:M3:131:LYS:NZ	2.31	0.62
45:2:924:A:H2'	45:2:925:G:C8	2.34	0.62
45:2:1102:G:OP1	68:D2:76:SER:OG	2.17	0.62
45:2:1585:U:N3	45:2:1611:A:H2	1.96	0.62
45:2:1682:U:O4	45:2:1720:G:N2	2.33	0.62
51:S5:34:GLN:HG2	62:C6:57:LEU:HD13	1.81	0.62
63:C7:88:VAL:HG23	63:C7:89:SER:H	1.63	0.62
72:D6:78:ALA:C	72:D6:84:VAL:HG11	2.23	0.62
1:5:3275:U:H1'	1:5:3276:G:H2'	1.81	0.62
3:8:47:C:H1'	3:8:61:A:H2'	1.79	0.62
4:l2:177:LYS:HD2	44:q3:69:TYR:CE1	2.35	0.62
24:n3:69:LEU:HD12	24:n3:74:MET:HE1	1.81	0.62
36:o5:101:THR:HG23	36:o5:104:GLN:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:s0:74:VAL:HG23	46:s0:118:PRO:HB3	1.81	0.62
55:s9:41:GLU:OE1	55:s9:126:ARG:NH2	2.32	0.62
78:sR:200:ASN:ND2	78:sR:240:VAL:O	2.31	0.62
1:1:1834:U:H3'	1:1:1835:A:H5'	1.80	0.62
1:1:2988:C:O2	5:L3:266:ARG:NH1	2.32	0.62
11:L9:31:ARG:HG2	11:L9:149:ASN:ND2	2.13	0.62
27:N6:51:ARG:HG3	27:N6:52:ARG:N	2.15	0.62
31:O0:58:TYR:OH	35:O4:97:GLU:OE2	2.09	0.62
45:2:1202:A:O2'	45:2:1204:A:OP2	2.14	0.62
45:2:1362:U:H1'	45:2:1363:U:C5	2.34	0.62
68:D2:8:ALA:HB2	68:D2:74:VAL:HG11	1.80	0.62
71:D5:39:ALA:HB1	71:D5:71:ILE:N	2.14	0.62
1:5:1447:G:H3'	18:m7:67:ILE:HD11	1.81	0.62
16:m5:36:ILE:HG12	16:m5:64:VAL:HB	1.80	0.62
21:n0:8:GLN:HG3	21:n0:26:ARG:HE	1.63	0.62
23:n2:14:THR:HG22	23:n2:66:VAL:HG22	1.80	0.62
45:6:123:G:H21	50:s4:146:THR:HG21	1.64	0.62
49:s3:150:MET:HE2	79:sM:110:TRP:HD1	1.64	0.62
74:d8:32:PHE:HE2	74:d8:40:ILE:HD13	1.64	0.62
1:1:210:U:C2	1:1:230:U:H4'	2.35	0.62
4:L2:112:ILE:HD13	44:Q3:79:VAL:HG22	1.82	0.62
6:L4:299:ILE:HG23	19:M8:39:ARG:HB3	1.82	0.62
29:N8:47:LYS:O	29:N8:49:HIS:N	2.33	0.62
45:2:337:G:H3'	57:C1:133:LYS:HB2	1.80	0.62
48:S2:188:LEU:HD13	48:S2:196:VAL:HG11	1.81	0.62
51:S5:174:LEU:HD22	51:S5:210:ALA:HA	1.80	0.62
57:C1:99:ARG:HB2	69:D3:12:ALA:HB2	1.82	0.62
1:5:72:C:H5'	14:m3:63:VAL:HG22	1.80	0.62
1:5:2228:A:H2'	1:5:2229:A:C8	2.35	0.62
5:l3:83:PRO:HB3	5:l3:204:ALA:HA	1.81	0.62
28:n7:4:PHE:HB2	28:n7:9:LYS:NZ	2.14	0.62
46:s0:206:ASP:OD2	46:s0:206:ASP:N	2.30	0.62
1:1:546:C:H5'	1:1:547:G:C8	2.33	0.62
1:1:929:A:H2'	1:1:930:U:H6	1.64	0.62
18:M7:29:THR:HG22	18:M7:87:SER:OG	2.00	0.62
33:O2:101:SER:HA	33:O2:125:ARG:HH21	1.64	0.62
49:S3:164:VAL:O	49:S3:168:ILE:HG13	1.99	0.62
63:C7:25:THR:O	63:C7:31:ASN:ND2	2.32	0.62
1:5:215:G:O6	87:5:4267:HOH:O	2.12	0.62
8:l6:65:ILE:O	8:l6:76:LEU:HA	2.00	0.62
14:m3:47:ALA:HB1	14:m3:48:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:o5:85:THR:HG22	36:o5:88:LEU:H	1.64	0.62
45:6:512:A:OP2	55:s9:172:VAL:HB	1.99	0.62
45:6:1237:G:H2'	45:6:1238:A:H8	1.64	0.62
55:s9:121:SER:HB3	55:s9:124:HIS:HB2	1.81	0.62
66:d0:34:LEU:HD21	66:d0:89:ARG:HD2	1.81	0.62
1:1:1844:C:C2'	1:1:1845:G:H5''	2.28	0.62
9:L7:132:PRO:HA	9:L7:229:PHE:CG	2.34	0.62
45:2:1597:A:C8	75:D9:14:TYR:HD2	2.17	0.62
48:S2:40:LYS:HG2	48:S2:43:ARG:HH22	1.64	0.62
48:S2:219:GLY:O	67:D1:25:LYS:NZ	2.29	0.62
56:C0:28:ASN:ND2	75:D9:9:SER:OG	2.33	0.62
1:5:173:G:HO2'	1:5:174:C:H6	1.46	0.62
5:l3:140:ASP:OD2	5:l3:142:ALA:N	2.31	0.62
5:l3:167:ARG:HA	85:l3:412:LLL:H931	1.81	0.62
5:l3:348:ARG:HA	5:l3:351:LEU:HB2	1.82	0.62
46:s0:92:HIS:HD1	46:s0:202:TYR:HH	1.46	0.62
72:d6:22:ARG:HH11	72:d6:22:ARG:HG3	1.64	0.62
1:1:3165:A:H61	1:1:3285:C:H42	1.48	0.62
5:L3:192:VAL:HA	5:L3:195:ALA:HB3	1.82	0.62
18:M7:59:PRO:HG3	18:M7:76:PHE:CG	2.35	0.62
18:M7:125:GLN:HB2	18:M7:141:SER:HB2	1.82	0.62
45:2:38:C:C2'	45:2:39:A:H5'	2.27	0.62
45:2:778:G:H3'	45:2:780:A:H2	1.65	0.62
45:2:899:G:H4'	60:C4:46:MET:HG2	1.81	0.62
45:2:1293:U:H2'	45:2:1294:G:H8	1.65	0.62
48:S2:39:THR:O	48:S2:42:GLY:N	2.31	0.62
78:SR:28:GLY:N	78:SR:75:ALA:O	2.30	0.62
1:5:1152:G:N2	1:5:1200:A:H61	1.95	0.62
85:7:231:LLL:H13	85:7:231:LLL:N12	2.05	0.62
7:l5:55:PHE:CZ	7:l5:158:ARG:HB3	2.35	0.62
45:6:1208:A:N1	45:6:1455:G:N2	2.48	0.62
45:6:1615:C:H3'	51:s5:81:ARG:HD2	1.82	0.62
48:s2:89:GLN:HG3	48:s2:93:GLY:O	2.00	0.62
64:c8:44:ASN:HD21	64:c8:48:LYS:HE2	1.65	0.62
69:d3:68:ILE:O	69:d3:70:LYS:NZ	2.33	0.62
1:1:1151:U:O4	87:1:4163:HOH:O	2.14	0.62
1:1:1632:A:C8	1:1:1644:C:H2'	2.34	0.62
7:L5:91:GLY:O	7:L5:94:ASN:ND2	2.33	0.62
26:N5:137:ASN:HB3	26:N5:142:ILE:HG12	1.81	0.62
46:S0:124:THR:HG22	46:S0:174:TRP:HE1	1.64	0.62
47:S1:30:PHE:CE1	47:S1:96:LEU:HD12	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:S7:36:ALA:HA	53:S7:39:ARG:HD2	1.82	0.62
78:SR:3:SER:OG	78:SR:4:ASN:N	2.30	0.62
1:5:209:A:H4'	1:5:211:A:C8	2.35	0.62
1:5:861:C:H2'	1:5:862:U:H6	1.65	0.62
1:5:2683:U:H2'	1:5:2684:C:C6	2.34	0.62
8:l6:31:ARG:NH2	8:l6:81:ALA:O	2.26	0.62
36:o5:31:LEU:HD23	36:o5:44:ILE:HA	1.82	0.62
45:6:567:A:H1'	76:e0:14:VAL:HG23	1.81	0.62
45:6:585:A:H2'	45:6:586:G:C8	2.35	0.62
45:6:900:A:OP1	60:c4:43:THR:OG1	2.14	0.62
45:6:1555:A:P	61:c5:47:ARG:HH21	2.22	0.62
10:L8:140:VAL:HG21	16:M5:3:ALA:HB2	1.81	0.62
45:2:800:U:H2'	45:2:801:G:C8	2.34	0.62
45:2:1389:C:O2'	63:C7:52:GLY:HA3	1.99	0.62
54:S8:41:LYS:HA	54:S8:59:ARG:O	2.00	0.62
72:D6:79:ILE:HA	72:D6:84:VAL:HG21	1.82	0.62
1:5:595:G:H2'	1:5:596:C:C6	2.35	0.62
5:l3:185:GLY:O	5:l3:191:LYS:NZ	2.30	0.62
23:n2:80:THR:HG21	23:n2:95:PHE:HD2	1.65	0.62
28:n7:36:HIS:CD2	28:n7:74:VAL:HG11	2.35	0.62
29:n8:76:ASP:HB2	29:n8:115:LYS:HB3	1.82	0.62
45:6:224:C:O2	45:6:838:G:N2	2.32	0.62
45:6:1316:G:OP1	63:c7:7:LYS:N	2.33	0.62
63:c7:29:GLN:HG2	78:sR:67:ILE:HD11	1.82	0.62
1:1:2986:U:H2'	1:1:2987:A:H8	1.64	0.62
1:1:3045:G:O3'	5:L3:275:ARG:NH1	2.33	0.62
6:L4:287:THR:HA	6:L4:290:ILE:HB	1.81	0.62
16:M5:75:VAL:HG12	16:M5:76:PRO:HD2	1.81	0.62
26:N5:67:ILE:HB	26:N5:83:VAL:HG12	1.82	0.62
53:S7:50:ASP:HA	53:S7:56:LYS:HA	1.82	0.62
55:S9:88:GLU:HA	55:S9:91:LYS:HE3	1.82	0.62
67:D1:5:LYS:HD3	67:D1:5:LYS:H	1.64	0.62
4:l2:219:ILE:HD13	4:l2:223:SER:HB3	1.82	0.62
5:l3:256:HIS:HA	5:l3:257:PRO:C	2.25	0.62
6:l4:138:ARG:NH1	6:l4:138:ARG:O	2.33	0.62
26:n5:86:VAL:HG11	26:n5:95:ILE:HG12	1.82	0.62
49:s3:51:ARG:HG2	49:s3:91:VAL:HG12	1.81	0.62
58:c2:36:LEU:HG	58:c2:41:LEU:HD12	1.82	0.62
1:1:271:C:O2	37:O6:82:ARG:NH2	2.30	0.61
1:1:377:A:H1'	1:1:392:G:N2	2.15	0.61
1:1:3343:G:H21	1:1:3362:A:H2	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L2:54:ARG:HG2	4:L2:56:ALA:H	1.62	0.61
9:L7:96:PRO:O	9:L7:99:PRO:HD2	2.00	0.61
45:2:340:U:H2'	45:2:341:A:C8	2.35	0.61
45:2:793:A:H4'	45:2:794:U:C2	2.35	0.61
45:2:1554:U:OP1	75:D9:13:ARG:NH2	2.33	0.61
50:S4:106:LYS:HD2	50:S4:108:ARG:HH11	1.65	0.61
52:S6:67:VAL:HG21	52:S6:99:GLY:HA2	1.82	0.61
61:C5:106:GLU:OE1	61:C5:108:ARG:NH1	2.32	0.61
1:5:96:G:OP1	14:m3:15:ARG:NH2	2.33	0.61
1:5:2095:G:H2'	1:5:2096:A:O4'	1.98	0.61
3:8:139:U:H2'	3:8:140:G:C8	2.35	0.61
10:l8:41:GLN:HG3	10:l8:42:PRO:HD2	1.80	0.61
18:m7:67:ILE:HD12	18:m7:82:ARG:CZ	2.30	0.61
27:n6:32:SER:HA	27:n6:49:PRO:HA	1.82	0.61
45:6:766:U:H5'	45:6:767:U:H5''	1.82	0.61
53:s7:48:GLU:OE2	53:s7:88:ARG:NH2	2.33	0.61
78:sR:72:THR:HG22	78:sR:81:LEU:HB2	1.82	0.61
6:L4:145:ILE:HG22	6:L4:173:GLY:HA3	1.82	0.61
7:L5:68:THR:HG22	7:L5:70:THR:H	1.64	0.61
15:M4:60:LEU:HD13	21:N0:152:LEU:HD11	1.81	0.61
44:Q3:46:THR:OG1	44:Q3:57:CYS:SG	2.57	0.61
45:2:514:G:H1	45:2:543:C:H41	1.48	0.61
45:2:1756:A:C2	45:2:1756:A:P	2.93	0.61
67:D1:9:VAL:HG22	67:D1:10:GLU:H	1.65	0.61
1:5:667:C:O2'	14:m3:8:PRO:HG2	2.01	0.61
1:5:1824:U:O3'	39:o8:17:ARG:NH2	2.33	0.61
6:l4:206:LEU:HB3	6:l4:248:VAL:HG22	1.83	0.61
12:m0:50:VAL:HG12	12:m0:167:LEU:HA	1.81	0.61
12:m0:170:LYS:HA	12:m0:177:ASP:HA	1.81	0.61
13:m1:16:LYS:HE3	13:m1:130:VAL:HG11	1.82	0.61
38:o7:72:ARG:O	38:o7:75:LYS:N	2.34	0.61
45:6:959:U:H5''	59:c3:15:ALA:O	2.00	0.61
45:6:1280:C:H2'	45:6:1281:G:H8	1.65	0.61
50:s4:160:VAL:HG12	50:s4:162:ILE:HG13	1.82	0.61
51:s5:33:VAL:O	51:s5:37:GLN:NE2	2.33	0.61
1:1:1603:A:H61	26:N5:71:THR:HG21	1.63	0.61
7:L5:236:LEU:HA	7:L5:239:ILE:HD12	1.82	0.61
9:L7:77:VAL:CG2	22:N1:139:ARG:HG3	2.30	0.61
10:L8:160:ILE:HG22	10:L8:164:VAL:HG13	1.82	0.61
24:N3:22:ILE:HG12	24:N3:35:TYR:HB2	1.82	0.61
45:2:86:A:O2'	45:2:147:A:N3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:S1:113:MET:SD	47:S1:209:ASN:ND2	2.73	0.61
1:5:30:G:O5'	16:m5:172:ARG:HD2	2.00	0.61
1:5:267:G:N7	87:5:4299:HOH:O	2.31	0.61
1:5:929:A:H2'	1:5:930:U:C6	2.36	0.61
1:5:1015:U:H2'	1:5:1017:C:OP2	2.00	0.61
9:l7:214:TRP:CE2	9:l7:219:LYS:HD3	2.35	0.61
45:6:804:A:N3	68:d2:105:THR:HG22	2.15	0.61
45:6:1383:G:H1'	66:d0:57:ARG:NH1	2.16	0.61
55:s9:86:LEU:HD11	55:s9:90:LYS:HB3	1.83	0.61
63:c7:97:ASN:O	63:c7:97:ASN:ND2	2.32	0.61
1:1:2158:A:H4'	1:1:2159:U:H5''	1.82	0.61
1:1:2660:G:H1	1:1:2710:C:H42	1.47	0.61
4:L2:10:LYS:HA	4:L2:16:PHE:CD2	2.35	0.61
19:M8:40:THR:HG21	19:M8:45:ASN:HD22	1.66	0.61
28:N7:25:ILE:HG23	28:N7:41:ALA:HB1	1.81	0.61
45:2:1294:G:O2'	45:2:1321:A:N1	2.30	0.61
45:2:1524:A:H2'	45:2:1525:A:C8	2.36	0.61
46:S0:118:PRO:HG2	46:S0:141:ILE:HD13	1.82	0.61
46:S0:138:TYR:O	67:D1:29:HIS:HB3	2.00	0.61
51:S5:37:GLN:HB3	62:C6:53:LEU:HB3	1.82	0.61
66:D0:95:ALA:HB1	66:D0:99:ILE:HG23	1.83	0.61
1:5:1733:G:H2'	1:5:1734:G:H8	1.65	0.61
1:5:3094:A:H2'	1:5:3095:U:C6	2.35	0.61
1:5:3175:U:H3	1:5:3277:U:H3	1.46	0.61
43:q2:28:TYR:HD1	43:q2:29:LYS:N	1.98	0.61
52:s6:197:ASN:O	52:s6:201:GLN:N	2.30	0.61
62:c6:27:GLY:HA2	62:c6:60:PHE:O	2.00	0.61
67:d1:33:GLN:HG3	67:d1:53:TYR:O	2.00	0.61
1:1:1156:C:OP2	9:L7:94:LYS:NZ	2.33	0.61
1:1:2192:C:O2'	1:1:2312:A:N1	2.31	0.61
10:L8:116:VAL:O	10:L8:120:LYS:N	2.34	0.61
15:M4:38:ILE:HD11	21:N0:150:PHE:HE2	1.66	0.61
45:2:1453:G:H2'	45:2:1454:G:H8	1.66	0.61
48:S2:56:ILE:HA	48:S2:61:LEU:HD12	1.83	0.61
62:C6:50:GLU:OE2	62:C6:82:ARG:NH2	2.29	0.61
1:5:827:A:H5''	35:o4:14:ASN:O	2.00	0.61
1:5:2349:U:OP1	87:5:4273:HOH:O	2.16	0.61
85:5:4168:LLL:H531	14:m3:178:LYS:NZ	2.16	0.61
4:l2:70:ARG:HD2	4:l2:72:ARG:HE	1.65	0.61
11:l9:171:ASP:OD1	11:l9:173:ARG:HD3	2.00	0.61
11:l9:176:LEU:O	11:l9:180:TYR:OH	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:m4:23:ILE:HG22	15:m4:29:ALA:HA	1.83	0.61
30:n9:28:LYS:HG3	30:n9:29:TYR:HD1	1.65	0.61
1:1:31:C:OP2	16:M5:188:ARG:NH2	2.33	0.61
6:L4:226:GLU:OE2	6:L4:246:ARG:NH2	2.34	0.61
6:L4:351:PRO:HA	9:L7:71:ALA:HA	1.83	0.61
27:N6:28:ARG:HB2	27:N6:75:ARG:HH21	1.65	0.61
45:2:738:G:H2'	45:2:739:G:C8	2.35	0.61
49:S3:164:VAL:HG13	49:S3:168:ILE:HD11	1.80	0.61
52:S6:44:GLU:HG3	52:S6:45:PHE:CD2	2.35	0.61
54:S8:185:GLU:HG2	57:C1:23:PRO:HG2	1.81	0.61
1:5:1021:G:H1	1:5:1031:C:H42	1.49	0.61
1:5:1412:G:OP1	33:o2:105:ARG:NH2	2.34	0.61
1:5:2254:U:H2'	1:5:2261:G:N2	2.15	0.61
1:5:2852:C:N3	12:m0:158:LYS:NZ	2.47	0.61
39:o8:44:LYS:HB3	39:o8:51:LEU:HD11	1.82	0.61
45:6:363:G:C2'	45:6:364:G:H5'	2.31	0.61
46:s0:124:THR:HG22	46:s0:174:TRP:HE1	1.66	0.61
48:s2:106:ASP:OD2	48:s2:110:HIS:ND1	2.29	0.61
50:s4:31:PRO:HG2	50:s4:38:LEU:HD22	1.81	0.61
52:s6:152:ASP:OD1	52:s6:154:ARG:NH1	2.34	0.61
69:d3:30:LYS:HE2	69:d3:34:LEU:HD11	1.82	0.61
72:d6:44:ILE:HD12	72:d6:65:PRO:HG2	1.83	0.61
1:1:543:C:H42	1:1:549:U:H3	1.46	0.61
1:1:1168:U:H1'	9:L7:209:ASN:ND2	2.14	0.61
1:1:1614:C:H2'	1:1:1615:C:H6	1.66	0.61
28:N7:89:VAL:HG11	28:N7:93:LYS:HE2	1.83	0.61
45:2:458:G:OP1	70:D4:109:LYS:NZ	2.32	0.61
63:C7:71:PHE:CD1	63:C7:73:LEU:HB3	2.35	0.61
1:5:129:U:H2'	1:5:130:A:C8	2.35	0.61
1:5:1856:C:H2'	1:5:1857:C:H6	1.66	0.61
85:5:4174:LLL:O23	85:5:4174:LLL:N12	2.33	0.61
27:n6:56:VAL:HG21	27:n6:104:LEU:HD13	1.83	0.61
47:s1:165:ARG:O	47:s1:169:SER:OG	2.17	0.61
1:1:1624:G:O2'	1:1:1643:A:N1	2.34	0.61
45:2:617:U:OP1	85:2:2043:LLL:O23	2.14	0.61
56:C0:80:LEU:O	56:C0:81:ASN:ND2	2.33	0.61
60:C4:24:ASN:N	60:C4:55:SER:HB3	2.16	0.61
70:D4:23:PHE:HE2	70:D4:75:VAL:HG12	1.65	0.61
11:l9:122:LYS:HG3	11:l9:123:ILE:N	2.16	0.61
23:n2:59:ASP:OD1	23:n2:61:THR:N	2.33	0.61
45:6:950:C:H2'	45:6:951:A:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s4:67:GLN:HB3	50:s4:69:HIS:CE1	2.35	0.61
64:c8:70:VAL:O	64:c8:74:GLN:HG2	2.01	0.61
75:d9:10:HIS:CG	75:d9:11:PRO:HD2	2.36	0.61
1:1:101:G:OP2	1:1:101:G:N2	2.30	0.61
1:1:691:A:OP1	6:L4:46:LYS:NZ	2.34	0.61
1:1:2185:G:O2'	1:1:2314:U:OP2	2.19	0.61
1:1:3160:U:H2'	1:1:3161:C:C6	2.36	0.61
38:O7:65:ARG:HG3	38:O7:65:ARG:HH11	1.65	0.61
45:2:1257:U:H2'	56:C0:2:LEU:HD12	1.83	0.61
45:2:1663:G:H2'	45:2:1664:C:C6	2.36	0.61
78:SR:203:THR:HG21	78:SR:244:ALA:HA	1.83	0.61
1:5:76:G:OP1	14:m3:70:ARG:NH1	2.34	0.61
1:5:2528:G:H5''	10:l8:248:LYS:HE3	1.81	0.61
1:5:2607:G:H5'	4:l2:233:GLN:HG2	1.82	0.61
8:l6:42:LEU:HD22	8:l6:79:VAL:HG21	1.81	0.61
11:l9:91:ARG:HG2	11:l9:182:SER:HB3	1.83	0.61
45:6:187:G:H4'	45:6:188:A:OP1	2.00	0.61
45:6:239:C:O2'	45:6:240:U:OP2	2.16	0.61
49:s3:202:LEU:H	49:s3:202:LEU:HD22	1.66	0.61
52:s6:213:ALA:O	52:s6:217:SER:N	2.33	0.61
66:d0:19:ILE:HG13	66:d0:96:PRO:HG3	1.82	0.61
67:d1:1:MET:HG2	67:d1:10:GLU:HB2	1.83	0.61
1:1:1659:U:H2'	1:1:1660:C:C6	2.36	0.61
6:L4:49:ALA:HA	6:L4:109:TRP:CZ2	2.36	0.61
7:L5:85:ARG:NH2	7:L5:250:ASP:OD1	2.34	0.61
39:O8:41:THR:HG21	39:O8:62:ALA:HB2	1.82	0.61
64:C8:47:CYS:HB3	64:C8:54:LEU:HD11	1.82	0.61
77:E1:100:LEU:HG	77:E1:101:ALA:H	1.65	0.61
1:5:345:G:N7	87:5:4237:HOH:O	2.33	0.61
1:5:955:U:H2'	1:5:956:U:C6	2.34	0.61
1:5:1597:C:H42	1:5:1610:G:H1	1.47	0.61
1:5:2659:G:H4'	1:5:2751:G:O2'	2.00	0.61
6:l4:229:ASN:OD1	6:l4:231:ALA:N	2.28	0.61
7:l5:211:LEU:HD22	7:l5:219:PHE:HB2	1.83	0.61
9:l7:53:LYS:O	9:l7:57:THR:HG23	1.99	0.61
9:l7:88:ARG:NH1	9:l7:91:GLY:O	2.34	0.61
22:n1:60:LYS:HB3	22:n1:76:ILE:HD13	1.82	0.61
45:6:149:C:H42	45:6:165:G:H1	1.48	0.61
55:s9:158:PHE:CD2	55:s9:164:PHE:HB3	2.36	0.61
1:1:860:G:OP1	44:Q3:17:ARG:NH1	2.34	0.60
1:1:1717:U:H2'	1:1:1718:G:C8	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1845:G:H5'	1:1:1845:G:C8	2.33	0.60
1:1:2749:G:O2'	7:L5:35:ARG:HG2	2.00	0.60
2:3:28:C:H1'	2:3:55:A:H61	1.66	0.60
47:S1:176:VAL:HG12	47:S1:177:GLN:H	1.65	0.60
54:S8:172:ARG:HE	54:S8:175:GLN:HG3	1.66	0.60
78:SR:207:ASP:OD1	78:SR:209:THR:OG1	2.15	0.60
1:5:973:A:H2'	1:5:974:G:O4'	2.01	0.60
1:5:1783:U:H2'	1:5:1784:G:C8	2.36	0.60
9:l7:186:HIS:O	9:l7:190:THR:OG1	2.19	0.60
16:m5:143:ARG:HE	36:o5:92:LEU:HD23	1.66	0.60
40:o9:3:ALA:O	40:o9:5:LYS:HE3	2.01	0.60
45:6:459:G:OP1	70:d4:109:LYS:NZ	2.31	0.60
49:s3:150:MET:HE3	49:s3:152:PHE:HZ	1.65	0.60
50:s4:107:GLY:HA2	50:s4:189:LEU:HG	1.83	0.60
54:s8:81:VAL:HG22	54:s8:102:VAL:HG12	1.83	0.60
63:c7:24:LEU:HD12	63:c7:58:MET:HE3	1.81	0.60
1:1:1043:C:O3'	12:M0:90:ARG:NH1	2.34	0.60
1:1:1492:G:N7	40:O9:2:ALA:HB1	2.15	0.60
5:L3:328:ILE:HG12	5:L3:329:PRO:HD2	1.83	0.60
45:2:897:C:O2'	45:2:914:G:N2	2.34	0.60
48:S2:139:ILE:HD11	48:S2:218:ILE:HD12	1.83	0.60
51:S5:25:LEU:HG	62:C6:27:GLY:O	2.01	0.60
51:S5:42:LEU:HD22	51:S5:47:SER:HA	1.82	0.60
55:S9:34:PHE:HD1	55:S9:111:THR:HG21	1.66	0.60
1:5:1778:G:N2	1:5:2101:C:H41	1.97	0.60
2:7:68:C:OP1	7:l5:14:SER:OG	2.18	0.60
4:l2:27:ALA:O	4:l2:128:ARG:NH2	2.34	0.60
6:l4:205:PRO:HB3	6:l4:247:PHE:CE2	2.37	0.60
42:q1:15:ARG:NH1	45:6:1126:G:OP1	2.34	0.60
45:6:836:U:H2'	45:6:837:G:C8	2.36	0.60
45:6:936:G:N7	72:d6:15:ARG:NH1	2.49	0.60
65:c9:53:TRP:HH2	65:c9:100:ILE:HD12	1.66	0.60
70:d4:29:HIS:HB2	70:d4:67:GLY:HA2	1.83	0.60
1:1:2947:G:C2	5:L3:250:ALA:HB1	2.36	0.60
1:1:2986:U:H2'	1:1:2987:A:C8	2.36	0.60
1:1:3232:G:H1	1:1:3255:U:H3	1.49	0.60
7:L5:86:TYR:OH	7:L5:250:ASP:O	2.08	0.60
45:2:66:U:OP1	52:S6:136:LYS:NZ	2.32	0.60
45:2:286:C:H2'	45:2:287:G:H5'	1.82	0.60
48:S2:103:VAL:HG12	48:S2:190:LEU:HD12	1.81	0.60
52:S6:169:TYR:HD1	52:S6:170:THR:H	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:S7:101:LYS:HA	53:S7:112:ARG:NH1	2.16	0.60
64:C8:30:TYR:HE2	64:C8:40:ARG:HH11	1.48	0.60
10:l8:71:VAL:N	10:l8:234:GLY:O	2.15	0.60
15:m4:54:PRO:O	15:m4:56:GLN:HG2	2.02	0.60
29:n8:82:ILE:HG22	29:n8:87:ARG:HG3	1.83	0.60
45:6:542:A:O2'	45:6:543:C:H3'	2.02	0.60
45:6:1553:G:N2	45:6:1555:A:H3'	2.16	0.60
64:c8:6:GLN:HG2	71:d5:44:GLN:HB2	1.84	0.60
70:d4:20:ARG:HE	70:d4:22:GLN:HE21	1.47	0.60
78:sR:42:LEU:HB2	78:sR:61:PHE:HB2	1.83	0.60
1:1:1191:U:H3'	41:Q0:113:ARG:HH21	1.66	0.60
1:1:1639:C:N4	35:O4:73:SER:HB2	2.17	0.60
1:1:2112:U:H4'	1:1:2113:A:H5'	1.82	0.60
1:1:2444:C:H42	1:1:2503:G:H21	1.47	0.60
6:L4:44:LYS:HB3	6:L4:47:ARG:NH1	2.15	0.60
6:L4:152:VAL:HG22	6:L4:172:VAL:HG21	1.83	0.60
19:M8:33:TYR:HA	19:M8:36:LEU:HB2	1.81	0.60
21:N0:10:ILE:HG12	21:N0:26:ARG:HB2	1.83	0.60
28:N7:50:PRO:HD3	28:N7:68:ILE:HG12	1.84	0.60
45:2:688:G:H2'	45:2:689:G:H8	1.66	0.60
48:S2:132:ALA:O	48:S2:135:SER:OG	2.19	0.60
52:S6:23:ARG:HD3	52:S6:41:VAL:O	2.02	0.60
72:D6:10:ARG:HB2	72:D6:34:LYS:HG3	1.82	0.60
1:5:1925:U:O2	44:q3:19:GLY:HA2	2.02	0.60
10:l8:152:LEU:HD13	10:l8:180:VAL:HG21	1.84	0.60
14:m3:93:ILE:HG22	14:m3:94:GLY:H	1.67	0.60
45:6:531:C:H2'	45:6:532:U:H5'	1.83	0.60
47:s1:180:THR:H	47:s1:183:GLN:HB2	1.67	0.60
49:s3:59:LEU:HA	49:s3:66:ILE:HG13	1.83	0.60
62:c6:40:GLU:C	62:c6:42:GLU:N	2.58	0.60
78:sR:123:ILE:HG22	78:sR:133:VAL:HG22	1.82	0.60
1:1:2769:A:H61	1:1:2789:U:H3	1.48	0.60
14:M3:157:ARG:HG2	14:M3:158:ALA:N	2.15	0.60
49:S3:117:ARG:NE	79:SM:122:GLU:HB3	2.17	0.60
68:D2:79:PHE:H	68:D2:125:ILE:HG22	1.66	0.60
68:D2:101:TYR:HA	68:D2:113:HIS:CE1	2.34	0.60
1:5:1950:U:H4'	1:5:1950:U:OP1	2.00	0.60
1:5:2444:C:H41	1:5:2503:G:H1	1.49	0.60
4:l2:117:GLU:HB2	4:l2:162:ALA:HB1	1.84	0.60
5:l3:76:VAL:HG12	5:l3:325:LYS:HA	1.81	0.60
6:l4:44:LYS:HB3	6:l4:47:ARG:NH1	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m0:54:SER:HB2	12:m0:135:ILE:HD11	1.82	0.60
45:6:151:G:N2	52:s6:13:GLN:OE1	2.29	0.60
45:6:397:A:OP2	54:s8:47:ARG:NH1	2.34	0.60
45:6:1531:G:H2'	45:6:1532:U:C6	2.36	0.60
52:s6:2:LYS:HB3	52:s6:108:VAL:HG12	1.83	0.60
63:c7:102:VAL:HG12	63:c7:104:ASN:H	1.65	0.60
1:1:2312:A:OP1	1:1:2314:U:H5	1.84	0.60
16:M5:46:ASP:OD1	16:M5:50:ARG:NH2	2.32	0.60
45:2:1557:U:OP2	45:2:1559:A:O2'	2.16	0.60
1:5:2574:G:OP2	28:n7:56:LYS:NZ	2.31	0.60
1:5:2791:G:H21	43:q2:28:TYR:HE2	1.50	0.60
14:m3:101:ARG:HH22	14:m3:112:ASN:ND2	1.98	0.60
21:n0:26:ARG:O	22:n1:150:THR:HA	2.02	0.60
45:6:322:G:H5'	45:6:322:G:H8	1.65	0.60
46:s0:38:PHE:CD1	46:s0:39:ASN:HB2	2.36	0.60
49:s3:43:PRO:O	49:s3:44:THR:HG22	2.02	0.60
57:c1:80:MET:HE3	57:c1:83:THR:HG23	1.82	0.60
61:c5:110:GLU:N	61:c5:110:GLU:OE2	2.34	0.60
1:1:3100:U:O2'	1:1:3101:G:OP2	2.15	0.60
1:1:3153:U:H6	1:1:3157:U:O2	1.85	0.60
2:3:44:C:OP2	13:M1:137:ARG:NH2	2.35	0.60
10:L8:106:LYS:HA	10:L8:109:LEU:HB2	1.82	0.60
15:M4:38:ILE:HD11	21:N0:150:PHE:CE2	2.37	0.60
47:S1:218:LEU:HD22	47:S1:219:LYS:H	1.66	0.60
59:C3:76:LYS:HA	59:C3:81:ALA:HB2	1.82	0.60
73:D7:75:GLU:CD	73:D7:76:GLY:H	2.10	0.60
1:5:675:C:O2'	1:5:679:U:OP1	2.18	0.60
1:5:975:C:H2'	1:5:976:U:C6	2.34	0.60
1:5:2141:U:OP1	87:5:4274:HOH:O	2.17	0.60
87:5:4504:HOH:O	29:n8:16:SER:HB3	2.00	0.60
6:14:206:LEU:HB2	6:14:246:ARG:HD2	1.82	0.60
10:l8:210:ALA:HA	10:l8:213:LYS:HB3	1.84	0.60
19:m8:58:ASN:HB3	19:m8:144:ARG:HH21	1.67	0.60
28:n7:25:ILE:HG23	28:n7:41:ALA:HB1	1.84	0.60
29:n8:45:MET:HE2	29:n8:45:MET:HA	1.84	0.60
45:6:1755:A:N7	45:6:1756:A:N6	2.50	0.60
57:c1:93:TYR:OH	57:c1:98:ASN:OD1	2.18	0.60
78:sR:90:ARG:HH21	78:sR:102:ARG:HE	1.49	0.60
1:1:549:U:H2'	1:1:550:A:C8	2.36	0.60
1:1:1577:G:H2'	1:1:1578:C:O4'	2.02	0.60
1:1:1632:A:H2'	1:1:1633:C:C6	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2622:C:N4	12:M0:114:GLY:O	2.35	0.60
4:L2:6:ARG:HH12	4:L2:199:THR:H	1.49	0.60
5:L3:350:ALA:O	5:L3:351:LEU:HB2	2.00	0.60
45:2:1563:C:OP1	65:C9:84:LYS:NZ	2.33	0.60
45:2:1756:A:OP1	45:2:1756:A:N3	2.35	0.60
51:S5:23:VAL:O	51:S5:34:GLN:NE2	2.35	0.60
1:5:1874:A:OP2	20:m9:20:ARG:NH1	2.34	0.60
2:7:110:G:OP2	7:l5:279:LYS:NZ	2.26	0.60
6:l4:257:LYS:O	6:l4:260:GLN:HB2	2.02	0.60
20:m9:25:ASP:HB3	20:m9:28:GLU:HB2	1.84	0.60
81:n4:113:LYS:NZ	45:6:279:G:OP2	2.30	0.60
36:o5:24:LEU:HA	36:o5:27:GLU:HB2	1.84	0.60
65:c9:63:ARG:NH1	65:c9:67:MET:HE1	2.16	0.60
1:1:507:U:H2'	1:1:508:U:C6	2.36	0.60
1:1:637:C:H4'	1:1:638:C:OP1	2.02	0.60
7:L5:211:LEU:HB3	7:L5:219:PHE:HD2	1.66	0.60
33:O2:100:ILE:O	33:O2:105:ARG:NH1	2.34	0.60
38:O7:5:THR:HA	38:O7:8:PHE:CD2	2.37	0.60
45:2:521:A:O2'	70:D4:34:ASN:OD1	2.15	0.60
45:2:788:A:P	50:S4:108:ARG:HH12	2.25	0.60
48:S2:208:GLU:O	48:S2:212:LYS:HB2	2.02	0.60
50:S4:71:LYS:HB2	50:S4:76:VAL:HA	1.84	0.60
53:S7:129:LEU:HD21	53:S7:172:VAL:HG11	1.82	0.60
75:D9:4:GLU:C	75:D9:5:ASN:HD22	2.10	0.60
10:l8:34:PHE:H	10:l8:39:ALA:HB3	1.67	0.60
12:m0:48:LEU:O	12:m0:139:ARG:HA	2.02	0.60
29:n8:3:SER:O	29:n8:6:THR:HG22	2.02	0.60
46:s0:50:VAL:HG22	63:c7:109:LEU:HD21	1.82	0.60
1:1:546:C:H5'	1:1:547:G:N7	2.17	0.60
1:1:1856:C:H2'	1:1:1857:C:H6	1.66	0.60
1:1:2662:G:H2'	1:1:2663:G:C8	2.36	0.60
1:1:2723:U:H5''	22:N1:89:LEU:HD12	1.83	0.60
6:L4:31:ARG:O	6:L4:35:VAL:HG23	2.02	0.60
14:M3:93:ILE:O	14:M3:119:TYR:OH	2.19	0.60
24:N3:74:MET:HE3	24:N3:102:ILE:HD12	1.84	0.60
28:N7:9:LYS:HB3	28:N7:25:ILE:HD12	1.84	0.60
45:2:503:G:O2'	45:2:504:U:OP1	2.17	0.60
45:2:1595:U:H3	45:2:1600:A:H2	1.49	0.60
48:S2:152:HIS:CD2	48:S2:153:SER:H	2.20	0.60
1:5:39:A:H5''	29:n8:35:ALA:HB2	1.84	0.60
1:5:2988:C:OP1	17:m6:68:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l5:22:ARG:NH1	7:l5:28:THR:OG1	2.35	0.60
30:n9:38:LYS:O	30:n9:39:PHE:HB3	2.01	0.60
44:q3:56:THR:HG22	44:q3:63:THR:HG23	1.84	0.60
45:6:116:U:H2'	45:6:117:U:C6	2.36	0.60
57:c1:109:VAL:HG12	57:c1:137:PHE:HB2	1.84	0.60
59:c3:132:VAL:O	59:c3:134:VAL:N	2.35	0.60
70:d4:37:LYS:HA	70:d4:40:LEU:HB2	1.84	0.60
76:e0:44:PHE:HA	76:e0:47:VAL:HG22	1.84	0.60
1:1:1212:A:H1'	21:N0:114:HIS:HE1	1.66	0.59
1:1:3386:G:H5'	32:O1:10:ARG:NH2	2.17	0.59
6:L4:195:ARG:CB	6:L4:197:ARG:HH21	2.14	0.59
23:N2:53:ALA:O	23:N2:68:THR:HG22	2.02	0.59
44:Q3:7:LYS:O	44:Q3:27:LYS:NZ	2.34	0.59
45:2:738:G:H2'	45:2:739:G:H8	1.67	0.59
58:C2:91:VAL:HG23	58:C2:92:ALA:H	1.67	0.59
62:C6:93:HIS:HA	62:C6:97:VAL:HG13	1.83	0.59
62:C6:95:LYS:HE3	62:C6:96:TYR:CZ	2.37	0.59
72:D6:87:ARG:NH2	72:D6:94:ASN:O	2.29	0.59
1:5:171:G:OP1	1:5:171:G:H4'	2.02	0.59
1:5:2746:A:H5'	7:l5:178:ASN:OD1	2.02	0.59
2:7:119:U:H2'	2:7:120:C:H6	1.65	0.59
5:l3:296:THR:HG22	5:l3:298:PHE:N	2.05	0.59
51:s5:59:VAL:C	51:s5:61:TYR:H	2.10	0.59
51:s5:117:THR:HG21	51:s5:194:LEU:HB3	1.84	0.59
57:c1:82:ARG:HE	57:c1:113:PRO:HG3	1.67	0.59
70:d4:56:SER:HB3	70:d4:74:LEU:HB2	1.84	0.59
1:1:72:C:H5'	14:M3:63:VAL:HG22	1.83	0.59
1:1:2829:U:OP2	87:1:4164:HOH:O	2.15	0.59
2:3:49:G:C5	7:L5:58:LYS:HG3	2.37	0.59
4:L2:111:THR:HB	4:L2:136:ILE:HD13	1.84	0.59
5:L3:7:GLU:OE1	87:L3:502:HOH:O	2.16	0.59
5:L3:53:MET:HG2	5:L3:77:THR:HG22	1.84	0.59
18:M7:67:ILE:HG13	18:M7:82:ARG:CZ	2.32	0.59
45:2:217:A:O2'	45:2:830:U:O2'	2.20	0.59
45:2:322:G:O2'	54:S8:10:LYS:NZ	2.35	0.59
45:2:1580:C:H4'	62:C6:137:ARG:HB2	1.83	0.59
45:2:1663:G:H2'	45:2:1664:C:H6	1.65	0.59
55:S9:161:THR:HG22	55:S9:162:SER:H	1.66	0.59
1:5:1816:A:H2'	1:5:1817:G:H5''	1.83	0.59
1:5:2600:C:OP1	16:m5:70:ASN:ND2	2.35	0.59
3:8:43:A:N6	38:o7:65:ARG:HH21	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:84:C:H1'	27:n6:113:LYS:HB2	1.83	0.59
6:l4:47:ARG:NH1	6:l4:109:TRP:O	2.35	0.59
12:m0:50:VAL:HG23	12:m0:138:VAL:HG23	1.83	0.59
32:o1:15:ASN:O	32:o1:19:ARG:NH1	2.35	0.59
53:s7:46:ILE:HG12	53:s7:60:ILE:HG23	1.84	0.59
63:c7:88:VAL:HG12	63:c7:89:SER:N	2.12	0.59
1:1:20:A:OP2	36:O5:90:ARG:NH1	2.34	0.59
1:1:2987:A:H2'	1:1:2988:C:C6	2.36	0.59
3:4:38:U:C4	36:O5:89:ARG:HD2	2.37	0.59
24:N3:118:VAL:O	24:N3:137:VAL:N	2.29	0.59
50:S4:13:ALA:O	50:S4:39:ARG:NH2	2.36	0.59
51:S5:75:GLY:O	62:C6:122:ARG:NH2	2.34	0.59
70:D4:8:ARG:HB2	70:D4:26:ASP:HB3	1.84	0.59
1:5:115:A:P	16:m5:49:ARG:HH22	2.25	0.59
9:l7:40:LYS:HA	9:l7:43:ILE:HD12	1.84	0.59
20:m9:189:ALA:HB2	53:s7:39:ARG:CZ	2.32	0.59
85:6:2173:LLL:N33	55:s9:12:TYR:OH	2.32	0.59
53:s7:160:GLN:HA	53:s7:163:ASP:HB2	1.84	0.59
58:c2:29:LYS:HA	58:c2:32:LEU:HB2	1.84	0.59
58:c2:54:ARG:HB3	77:e1:128:ALA:HB1	1.84	0.59
1:1:1556:C:H5''	1:1:2169:G:N2	2.17	0.59
1:1:2273:G:N2	1:1:2311:G:H2'	2.16	0.59
1:1:2644:C:O2'	12:M0:116:ARG:O	2.20	0.59
3:4:104:A:C8	3:4:105:A:C8	2.90	0.59
39:O8:46:ARG:HH21	39:O8:51:LEU:HB2	1.68	0.59
45:2:116:U:H2'	45:2:117:U:C6	2.38	0.59
45:2:1604:U:H5''	66:D0:79:TRP:CD1	2.38	0.59
69:D3:12:ALA:O	69:D3:16:ARG:HG2	2.02	0.59
1:5:77:A:N7	14:m3:73:ARG:NH2	2.50	0.59
1:5:515:C:O2'	6:l4:341:SER:O	2.20	0.59
1:5:693:A:H2'	1:5:694:C:H6	1.67	0.59
1:5:816:A:H5'	1:5:906:A:H61	1.67	0.59
1:5:1867:A:H2'	1:5:1868:G:C8	2.37	0.59
1:5:2737:C:H4'	22:n1:68:THR:OG1	2.02	0.59
1:5:2854:U:P	12:m0:3:ARG:HH22	2.25	0.59
3:8:139:U:H2'	3:8:140:G:H8	1.66	0.59
13:m1:49:LYS:HE3	79:sM:26:VAL:HG11	1.83	0.59
17:m6:108:ILE:HD12	17:m6:117:ARG:HD3	1.84	0.59
23:n2:42:LYS:HB3	23:n2:45:GLY:O	2.02	0.59
45:6:563:U:H4'	76:e0:17:GLN:NE2	2.16	0.59
45:6:877:G:H5'	45:6:937:C:H1'	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1274:C:H5	79:sM:96:ARG:H	1.50	0.59
66:d0:35:GLU:OE1	66:d0:89:ARG:NH1	2.34	0.59
78:sR:69:GLN:HG2	78:sR:111:MET:HE3	1.84	0.59
14:M3:36:ARG:HG2	14:M3:39:ARG:NH2	2.18	0.59
14:M3:85:LEU:HD23	14:M3:90:ALA:HB2	1.84	0.59
45:2:240:U:OP2	45:2:240:U:H4'	2.01	0.59
45:2:766:U:H5'	45:2:767:U:H5''	1.83	0.59
45:2:934:C:N3	45:2:1077:C:H4'	2.17	0.59
46:S0:191:ARG:H	46:S0:191:ARG:HD3	1.68	0.59
51:S5:124:LEU:HD21	71:D5:59:TYR:HB2	1.83	0.59
53:S7:86:GLN:CD	53:S7:87:ASP:H	2.11	0.59
1:5:1333:C:H5''	9:l7:110:ARG:HD3	1.84	0.59
1:5:1660:C:H2'	1:5:1661:G:C8	2.37	0.59
12:m0:47:PRO:HB2	12:m0:178:ARG:HH11	1.68	0.59
27:n6:38:GLU:HG2	27:n6:39:LEU:HD23	1.84	0.59
37:o6:93:ILE:O	37:o6:96:ALA:N	2.35	0.59
40:o9:10:LYS:HA	40:o9:13:MET:HE3	1.85	0.59
45:6:1081:A:H4'	45:6:1082:C:O5'	2.02	0.59
51:s5:20:PHE:HE1	51:s5:34:GLN:HG2	1.68	0.59
1:1:929:A:H2'	1:1:930:U:C6	2.37	0.59
1:1:1108:U:H2'	1:1:1109:U:H6	1.68	0.59
1:1:1108:U:H2'	1:1:1109:U:C6	2.38	0.59
1:1:1786:G:H2'	1:1:1787:A:C8	2.37	0.59
7:L5:156:GLY:HA2	7:L5:181:PRO:HD3	1.85	0.59
11:L9:105:GLU:CB	11:L9:110:LYS:H	2.15	0.59
15:M4:32:LEU:HD11	15:M4:94:TRP:CG	2.37	0.59
21:N0:12:ARG:HB3	21:N0:24:LEU:HD23	1.85	0.59
28:N7:14:VAL:HG22	35:O4:86:LYS:HG2	1.85	0.59
37:O6:57:LEU:HD11	37:O6:73:ALA:HB2	1.85	0.59
45:2:170:U:H3	45:2:289:U:HO2'	1.45	0.59
51:S5:122:ASN:HB2	51:S5:129:PRO:HD3	1.85	0.59
58:C2:91:VAL:HG23	58:C2:92:ALA:N	2.17	0.59
78:SR:178:VAL:HG23	78:SR:199:ILE:HD13	1.85	0.59
1:5:1549:U:H2'	1:5:1550:C:H6	1.68	0.59
1:5:1912:U:N3	1:5:2122:G:OP2	2.36	0.59
1:5:2146:C:OP1	4:l2:200:ARG:NH1	2.35	0.59
1:5:2881:C:H2'	1:5:2882:U:C6	2.38	0.59
4:l2:14:SER:OG	4:l2:15:ILE:N	2.34	0.59
5:l3:143:GLY:HA2	5:l3:146:ARG:HH11	1.68	0.59
13:m1:116:TYR:HE1	13:m1:118:PRO:HA	1.66	0.59
21:n0:91:TYR:O	21:n0:137:ARG:NH1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:o0:45:ALA:O	31:o0:48:THR:OG1	2.18	0.59
38:o7:21:ARG:NH2	38:o7:41:ALA:O	2.35	0.59
45:6:16:G:H2'	45:6:17:C:C6	2.37	0.59
45:6:252:U:H2'	45:6:253:A:C8	2.38	0.59
45:6:768:C:C2	55:s9:143:ILE:HG12	2.38	0.59
49:s3:116:ARG:HB3	49:s3:120:TYR:CE2	2.38	0.59
57:c1:86:ILE:HD11	57:c1:125:VAL:HG21	1.85	0.59
67:d1:56:SER:OG	67:d1:59:VAL:HG23	2.02	0.59
78:sR:5:GLU:HA	78:sR:317:THR:HA	1.85	0.59
1:1:148:G:OP2	16:M5:4:TYR:OH	2.12	0.59
1:1:743:C:O2	19:M8:141:ARG:HD3	2.02	0.59
1:1:883:A:H5''	1:1:884:A:OP1	2.03	0.59
6:L4:327:LEU:HA	9:L7:166:ASN:HD21	1.68	0.59
45:2:973:A:H2'	45:2:974:A:H8	1.67	0.59
45:2:1451:C:H2'	45:2:1452:U:H6	1.67	0.59
51:S5:130:ILE:HG13	51:S5:131:GLN:N	2.17	0.59
1:5:2211:U:H5	1:5:2234:G:H1	1.51	0.59
6:l4:36:HIS:O	6:l4:40:THR:HG23	2.02	0.59
14:m3:59:ARG:HD2	14:m3:69:VAL:HG23	1.85	0.59
26:n5:121:LYS:HD3	26:n5:123:TYR:CE1	2.38	0.59
28:n7:22:LYS:HD3	28:n7:130:PHE:HA	1.85	0.59
28:n7:33:SER:OG	28:n7:35:SER:O	2.13	0.59
53:s7:141:ARG:NH1	53:s7:143:LEU:HD21	2.18	0.59
64:c8:45:LEU:HD11	65:c9:36:ILE:HG22	1.84	0.59
5:L3:205:VAL:HG11	5:L3:322:ILE:HD11	1.85	0.59
19:M8:165:ILE:HD11	19:M8:172:PHE:HB3	1.83	0.59
45:2:73:U:H1'	45:2:74:U:H5'	1.84	0.59
45:2:751:G:H2'	45:2:752:A:C8	2.36	0.59
45:2:1662:G:O6	85:2:2044:LLL:N21	2.27	0.59
51:S5:125:THR:O	51:S5:127:GLN:NE2	2.33	0.59
61:C5:98:ASN:HB2	61:C5:122:THR:HA	1.84	0.59
62:C6:32:ASN:N	62:C6:67:VAL:O	2.19	0.59
1:5:364:G:OP1	6:l4:60:THR:HG23	2.03	0.59
1:5:1093:A:OP1	1:5:1093:A:H4'	2.02	0.59
1:5:1575:A:H3'	1:5:1576:G:H5''	1.84	0.59
1:5:1764:U:C5	1:5:1765:U:H1'	2.38	0.59
1:5:1805:C:H2'	1:5:1806:A:H8	1.68	0.59
1:5:1952:G:H21	1:5:2095:G:N2	2.01	0.59
45:6:647:G:N2	45:6:687:G:H22	2.01	0.59
45:6:1171:A:N7	87:6:2234:HOH:O	2.32	0.59
48:s2:162:CYS:H	48:s2:213:ALA:HB2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:33:VAL:HG13	51:s5:37:GLN:OE1	2.02	0.59
53:s7:115:SER:O	53:s7:116:ARG:HB2	2.02	0.59
57:c1:33:ARG:NH2	57:c1:48:ALA:O	2.35	0.59
63:c7:41:ILE:HD13	63:c7:50:ILE:HD12	1.84	0.59
71:d5:68:ARG:HB3	71:d5:69:LEU:HD12	1.85	0.59
1:1:439:C:H3'	1:1:440:A:O4'	2.02	0.59
1:1:1038:C:H4'	7:L5:5:LYS:HE3	1.83	0.59
1:1:1219:C:H4'	1:1:1223:A:H1'	1.83	0.59
1:1:2373:A:N3	1:1:2824:G:O2'	2.29	0.59
3:4:68:G:OP2	85:4:224:LLL:N61	2.35	0.59
4:L2:143:GLU:O	4:L2:145:LYS:HG2	2.02	0.59
9:L7:132:PRO:HA	9:L7:229:PHE:CD1	2.38	0.59
29:N8:90:TYR:CG	29:N8:100:PRO:HG3	2.36	0.59
45:2:273:G:H1	45:2:283:U:H3	1.50	0.59
45:2:299:A:OP1	50:S4:30:ARG:NH2	2.36	0.59
45:2:1142:A:H5''	72:D6:2:PRO:HG3	1.85	0.59
47:S1:179:SER:CB	47:S1:183:GLN:HB2	2.32	0.59
78:SR:19:TRP:O	78:SR:37:SER:HA	2.03	0.59
1:5:1082:U:H2'	1:5:1083:G:O4'	2.03	0.59
1:5:1231:A:H5''	1:5:1232:C:H5'	1.85	0.59
2:7:3:U:H2'	2:7:4:U:C6	2.36	0.59
3:8:41:A:O2'	38:o7:59:THR:HG22	2.03	0.59
13:m1:75:LYS:O	13:m1:79:ILE:HG13	2.02	0.59
24:n3:87:ARG:HH12	24:n3:137:VAL:HG11	1.67	0.59
45:6:846:G:H2'	45:6:847:A:H8	1.67	0.59
45:6:1459:C:OP2	64:c8:138:THR:OG1	2.15	0.59
45:6:1562:G:OP1	65:c9:89:ARG:NH2	2.34	0.59
47:s1:158:SER:HA	47:s1:161:ILE:HD12	1.85	0.59
49:s3:90:ARG:O	49:s3:91:VAL:HG22	2.03	0.59
51:s5:148:ARG:HE	74:d8:22:ARG:HH22	1.51	0.59
51:s5:161:ASP:O	74:d8:44:VAL:HA	2.02	0.59
51:s5:222:LYS:HA	51:s5:225:ARG:NH1	2.18	0.59
70:d4:47:VAL:HG13	70:d4:48:TYR:HD2	1.67	0.59
1:1:353:G:O6	38:O7:52:LYS:HE2	2.02	0.59
1:1:922:U:OP2	87:1:4157:HOH:O	2.17	0.59
1:1:1407:A:H5''	1:1:1408:G:OP2	2.03	0.59
5:L3:284:ARG:HB3	5:L3:323:MET:HB3	1.85	0.59
9:L7:144:ILE:O	9:L7:148:VAL:HG23	2.03	0.59
15:M4:12:TRP:CZ2	21:N0:153:PRO:HB3	2.38	0.59
19:M8:64:VAL:HG13	19:M8:93:ILE:HD11	1.84	0.59
21:N0:66:GLU:OE2	21:N0:73:LYS:NZ	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:159:U:H5'	70:D4:117:LYS:HD3	1.84	0.59
51:S5:41:LYS:HD2	51:S5:67:PRO:HB2	1.84	0.59
64:C8:83:ALA:HA	64:C8:86:LEU:HD23	1.84	0.59
1:5:1072:G:H2'	1:5:1073:U:C6	2.38	0.59
1:5:1072:G:H2'	1:5:1073:U:H6	1.68	0.59
1:5:2255:A:H5''	1:5:2256:A:OP2	2.03	0.59
6:14:229:ASN:OD1	6:14:230:VAL:N	2.36	0.59
20:m9:165:LYS:NZ	45:6:850:A:O3'	2.35	0.59
45:6:138:A:N3	45:6:138:A:H5''	2.18	0.59
45:6:327:U:H2'	45:6:328:A:C8	2.37	0.59
45:6:416:A:H4'	45:6:417:A:OP2	2.03	0.59
46:s0:134:LYS:O	46:s0:137:SER:OG	2.20	0.59
1:1:1369:A:OP2	87:1:4165:HOH:O	2.16	0.58
1:1:2896:A:OP1	41:Q0:102:ARG:NE	2.28	0.58
6:L4:300:ARG:O	19:M8:39:ARG:NH1	2.36	0.58
11:L9:101:VAL:HG12	11:L9:136:PHE:HE1	1.66	0.58
12:M0:86:HIS:HB3	12:M0:139:ARG:HG2	1.84	0.58
38:O7:60:GLY:HA2	38:O7:64:MET:HE2	1.83	0.58
45:2:1344:A:H2'	45:2:1345:A:C8	2.38	0.58
1:5:860:G:OP1	44:q3:17:ARG:NH1	2.32	0.58
6:14:330:TYR:HB2	9:17:45:LEU:HD22	1.85	0.58
26:n5:135:ILE:HD11	26:n5:138:ARG:HH11	1.67	0.58
45:6:1121:C:H2'	45:6:1122:G:C8	2.38	0.58
47:s1:26:ARG:HD2	47:s1:49:ASN:HB3	1.83	0.58
71:d5:60:VAL:HG11	71:d5:89:ILE:HG21	1.84	0.58
1:1:1721:U:O4	20:M9:128:LYS:NZ	2.36	0.58
1:1:3353:G:H5'	54:S8:162:ALA:HA	1.84	0.58
3:4:41:A:O2'	38:O7:59:THR:HG22	2.04	0.58
5:L3:188:ILE:HD12	5:L3:189:SER:N	2.18	0.58
8:L6:54:TYR:HE2	8:L6:63:LEU:HD22	1.68	0.58
12:M0:210:ILE:HG12	12:M0:217:PHE:CZ	2.38	0.58
29:N8:74:ASN:HB3	29:N8:115:LYS:H	1.68	0.58
36:O5:31:LEU:HD21	36:O5:43:LYS:HD2	1.84	0.58
45:2:106:U:H2'	45:2:107:C:O4'	2.03	0.58
45:2:158:U:O2'	45:2:159:U:H3'	2.03	0.58
47:S1:41:ARG:NH2	47:S1:97:LEU:HD11	2.18	0.58
48:S2:108:ASN:O	48:S2:110:HIS:ND1	2.37	0.58
49:S3:76:ARG:HG3	56:C0:65:TYR:HE1	1.68	0.58
68:D2:27:ILE:HG12	68:D2:61:ILE:HB	1.85	0.58
1:5:2771:U:OP2	1:5:2772:C:N4	2.37	0.58
1:5:2795:U:O2	1:5:2800:G:O2'	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:46:G:OP2	40:o9:15:LYS:NZ	2.21	0.58
21:n0:10:ILE:HG12	21:n0:26:ARG:HB2	1.85	0.58
24:n3:75:PRO:HG2	24:n3:103:ALA:O	2.02	0.58
81:n4:106:GLU:HA	81:n4:109:LEU:HB2	1.85	0.58
35:o4:85:VAL:HA	35:o4:88:ARG:HB3	1.85	0.58
38:o7:18:LEU:HA	38:o7:24:ARG:O	2.02	0.58
45:6:765:G:N1	55:s9:146:PHE:HZ	2.01	0.58
45:6:1414:U:OP2	63:c7:3:ARG:NH1	2.31	0.58
49:s3:76:ARG:HG3	49:s3:77:PHE:CD1	2.38	0.58
52:s6:152:ASP:OD1	52:s6:154:ARG:HG2	2.04	0.58
52:s6:197:ASN:OD1	52:s6:201:GLN:NE2	2.35	0.58
53:s7:99:LEU:HB3	53:s7:108:GLN:HE22	1.67	0.58
59:c3:31:GLU:CD	59:c3:31:GLU:H	2.11	0.58
11:L9:47:LYS:N	15:M4:7:VAL:HG11	2.18	0.58
12:M0:24:ARG:HB2	12:M0:24:ARG:NH1	2.18	0.58
24:N3:79:VAL:HB	24:N3:118:VAL:HG22	1.84	0.58
29:N8:147:LEU:HB2	37:O6:7:ILE:HG22	1.86	0.58
45:2:238:U:OP2	45:2:834:G:H4'	2.02	0.58
45:2:452:A:H3'	45:2:453:U:C5	2.38	0.58
45:2:591:A:H2'	45:2:592:A:H8	1.67	0.58
45:2:646:C:H2'	45:2:647:G:C8	2.38	0.58
46:S0:185:ARG:H	67:D1:44:ARG:HA	1.66	0.58
47:S1:138:PHE:CD2	47:S1:214:LYS:HB3	2.39	0.58
47:S1:140:ILE:HG21	47:S1:213:ARG:HD3	1.85	0.58
71:D5:49:ARG:O	71:D5:53:GLU:N	2.26	0.58
79:SM:61:ILE:HD12	79:SM:62:ARG:H	1.67	0.58
1:5:406:G:O6	85:5:4154:LLL:N12	2.36	0.58
1:5:900:G:H2'	1:5:901:G:C8	2.38	0.58
1:5:1596:C:H2'	1:5:1597:C:C6	2.39	0.58
1:5:2278:C:O2	87:5:4266:HOH:O	2.11	0.58
1:5:2521:U:H5'	4:l2:31:THR:HG21	1.85	0.58
1:5:2921:U:H2'	1:5:2923:U:OP2	2.03	0.58
16:m5:119:TYR:OH	16:m5:131:GLU:OE1	2.15	0.58
45:6:151:G:H22	45:6:163:G:N2	2.01	0.58
45:6:1087:A:H2'	45:6:1088:A:C8	2.38	0.58
61:c5:12:PHE:O	61:c5:14:THR:OG1	2.19	0.58
62:c6:83:GLN:NE2	62:c6:119:ALA:HA	2.18	0.58
1:1:1176:C:H2'	1:1:1177:G:N2	2.19	0.58
1:1:1654:A:H2'	1:1:1655:G:H5''	1.84	0.58
1:1:2608:G:OP1	4:L2:2:GLY:N	2.36	0.58
1:1:3295:A:OP2	5:L3:126:LYS:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3308:C:N3	18:M7:69:ARG:NH1	2.50	0.58
4:L2:104:LEU:HG	4:L2:158:ILE:HD11	1.85	0.58
17:M6:3:VAL:HG13	17:M6:4:GLU:HG3	1.86	0.58
45:2:768:C:C2	55:S9:143:ILE:HG12	2.38	0.58
45:2:791:A:H2'	45:2:792:U:C6	2.39	0.58
45:2:1573:A:H4'	45:2:1574:G:H5'	1.85	0.58
50:S4:252:ARG:O	50:S4:256:ARG:HB2	2.04	0.58
51:S5:145:ASP:OD1	74:D8:45:LYS:NZ	2.36	0.58
59:C3:100:LYS:HG2	59:C3:104:ARG:HH11	1.68	0.58
61:C5:103:ASN:ND2	79:SM:56:GLY:HA2	2.18	0.58
1:5:71:A:C2	1:5:2778:G:H1'	2.38	0.58
1:5:3045:G:H2'	1:5:3046:A:O4'	2.03	0.58
5:13:41:VAL:CA	5:13:185:GLY:HA3	2.32	0.58
6:14:99:MET:HE3	6:14:102:PRO:HA	1.84	0.58
22:n1:40:VAL:HB	22:n1:96:ILE:HG23	1.84	0.58
38:o7:14:LYS:HD2	40:o9:51:ILE:HG13	1.85	0.58
39:o8:46:ARG:NH1	39:o8:47:GLY:O	2.37	0.58
40:o9:9:ILE:O	40:o9:13:MET:N	2.34	0.58
45:6:1681:A:H1'	52:s6:66:GLY:HA2	1.85	0.58
53:s7:12:ALA:HB3	53:s7:13:PRO:HD3	1.85	0.58
59:c3:132:VAL:O	59:c3:134:VAL:HG13	2.03	0.58
1:1:934:G:OP1	87:1:4166:HOH:O	2.17	0.58
1:1:2226:U:H2'	1:1:2227:C:C6	2.39	0.58
1:1:2898:G:N7	41:Q0:125:LYS:HE2	2.17	0.58
10:L8:35:GLY:O	10:L8:36:ILE:HB	2.04	0.58
13:M1:96:PHE:HB2	13:M1:156:LYS:HE3	1.84	0.58
16:M5:138:GLN:HA	16:M5:143:ARG:HH11	1.68	0.58
33:O2:64:LYS:HE2	33:O2:65:PHE:CE2	2.38	0.58
45:2:195:G:H2'	45:2:196:G:H5'	1.85	0.58
47:S1:183:GLN:O	47:S1:187:LYS:N	2.35	0.58
52:S6:142:ARG:HG3	52:S6:153:VAL:HG21	1.86	0.58
60:C4:26:THR:HG21	60:C4:97:GLY:HA3	1.86	0.58
65:C9:15:ILE:HD13	65:C9:60:SER:HA	1.83	0.58
1:5:2102:U:H2'	1:5:2103:U:C5	2.38	0.58
1:5:3275:U:O2'	1:5:3276:G:OP2	2.18	0.58
3:8:157:U:H4'	3:8:157:U:OP1	2.04	0.58
9:l7:151:ARG:NH1	9:l7:244:ASN:O	2.37	0.58
11:l9:26:LYS:HA	11:l9:35:THR:HG22	1.86	0.58
23:n2:28:PHE:HE1	23:n2:83:TYR:HE2	1.49	0.58
45:6:79:C:OP1	52:s6:159:ARG:NH2	2.34	0.58
45:6:827:C:H3'	45:6:828:U:H5''	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:844:A:H2'	45:6:845:G:H8	1.67	0.58
46:s0:17:LEU:HD23	46:s0:172:LEU:HD13	1.84	0.58
1:1:1373:A:OP2	29:N8:7:LYS:NZ	2.37	0.58
1:1:1730:G:N7	31:O0:28:LYS:HB2	2.19	0.58
1:1:2971:A:H3'	1:1:2971:A:N3	2.18	0.58
52:S6:12:SER:HB3	52:S6:124:LEU:HD12	1.85	0.58
60:C4:125:SER:OG	60:C4:126:THR:N	2.35	0.58
77:E1:108:VAL:HG22	77:E1:114:VAL:HG22	1.85	0.58
1:5:908:G:N7	85:5:4158:LLL:N61	2.52	0.58
1:5:2662:G:H2'	1:5:2663:G:C8	2.38	0.58
3:8:60:U:OP1	26:n5:54:TYR:OH	2.13	0.58
4:l2:172:GLY:H	44:q3:67:GLY:HA2	1.68	0.58
14:m3:140:SER:OG	14:m3:141:ALA:N	2.35	0.58
45:6:1330:G:N2	49:s3:204:ASP:OD1	2.37	0.58
50:s4:126:VAL:HG11	50:s4:155:LYS:O	2.03	0.58
75:d9:19:ARG:HD2	75:d9:32:ARG:HD2	1.85	0.58
1:1:209:A:OP1	6:L4:161:LYS:NZ	2.36	0.58
1:1:345:G:OP1	1:1:1429:G:N1	2.30	0.58
1:1:943:U:H3'	29:N8:13:GLY:HA2	1.85	0.58
1:1:2898:G:OP2	1:1:2899:C:H5'	2.04	0.58
1:1:3024:A:H5''	1:1:3025:C:OP2	2.04	0.58
39:O8:41:THR:HG21	39:O8:62:ALA:CB	2.34	0.58
45:2:1068:C:H2'	45:2:1069:A:C8	2.38	0.58
45:2:1459:C:OP2	64:C8:138:THR:OG1	2.21	0.58
46:S0:63:ILE:HG12	67:D1:36:VAL:HG22	1.86	0.58
47:S1:61:LEU:O	47:S1:63:GLY:N	2.35	0.58
68:D2:26:LEU:HD21	68:D2:60:LYS:HD3	1.86	0.58
69:D3:70:LYS:HB3	69:D3:93:LEU:HD13	1.84	0.58
6:l4:135:VAL:O	6:l4:140:HIS:HB2	2.03	0.58
12:m0:9:TYR:OH	12:m0:99:ILE:HG22	2.03	0.58
31:o0:57:GLU:OE1	31:o0:69:TYR:OH	2.15	0.58
45:6:73:U:O2'	45:6:74:U:H6	1.86	0.58
45:6:151:G:H1	45:6:163:G:H1	1.50	0.58
45:6:629:U:H2'	45:6:630:A:H8	1.68	0.58
45:6:827:C:C3'	45:6:828:U:H5''	2.34	0.58
59:c3:102:LEU:HD12	59:c3:115:LEU:HD12	1.86	0.58
1:1:1864:A:OP1	20:M9:88:ARG:NH1	2.36	0.58
1:1:2796:G:N7	43:Q2:63:LYS:NZ	2.52	0.58
1:1:2898:G:OP1	11:L9:173:ARG:NH2	2.37	0.58
1:1:2960:C:H2'	1:1:2961:G:H8	1.68	0.58
6:L4:47:ARG:NH1	6:L4:109:TRP:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L6:47:PHE:O	8:L6:50:LYS:HB2	2.04	0.58
33:O2:32:TRP:CZ2	33:O2:53:PRO:HD2	2.39	0.58
45:2:1161:C:H1'	45:2:1620:C:H42	1.67	0.58
65:C9:28:LEU:HD13	65:C9:30:VAL:H	1.68	0.58
1:5:223:U:OP1	1:5:225:C:N4	2.37	0.58
1:5:944:C:OP1	33:o2:33:ARG:NH1	2.36	0.58
1:5:2514:U:H6	1:5:2514:U:OP1	1.86	0.58
9:l7:96:PRO:O	9:l7:99:PRO:HD2	2.04	0.58
45:6:515:A:H2'	45:6:516:G:O4'	2.04	0.58
45:6:1230:A:H8	45:6:1258:U:C5	2.21	0.58
53:s7:102:PRO:HD3	53:s7:112:ARG:HD3	1.86	0.58
55:s9:37:LYS:HD2	76:e0:33:ARG:H	1.69	0.58
57:c1:125:VAL:CG1	57:c1:137:PHE:HB3	2.33	0.58
66:d0:48:HIS:ND1	66:d0:48:HIS:O	2.36	0.58
66:d0:97:VAL:HG13	66:d0:98:GLN:H	1.68	0.58
71:d5:39:ALA:HB2	71:d5:70:LYS:HG2	1.85	0.58
1:1:1103:A:H61	1:1:1363:A:H1'	1.68	0.58
1:1:1658:G:H2'	1:1:1659:U:O4'	2.04	0.58
1:1:3214:U:OP2	15:M4:128:ARG:NH2	2.36	0.58
85:1:4002:LLL:H312	85:1:4002:LLL:H322	1.69	0.58
87:1:4106:HOH:O	9:L7:217:PRO:O	2.17	0.58
10:L8:61:GLN:HA	10:L8:64:ILE:HD12	1.85	0.58
13:M1:109:HIS:CE1	13:M1:122:ILE:HA	2.39	0.58
15:M4:72:LEU:HD22	15:M4:73:PRO:HD2	1.85	0.58
20:M9:90:PRO:HB2	20:M9:93:VAL:HG23	1.85	0.58
21:N0:77:VAL:HG11	21:N0:106:LEU:HD13	1.85	0.58
28:N7:23:VAL:HG12	28:N7:45:GLY:HA3	1.84	0.58
45:2:1735:U:H2'	45:2:1736:G:C8	2.33	0.58
53:S7:62:VAL:HG13	53:S7:63:PRO:HD2	1.86	0.58
55:S9:93:LEU:HA	55:S9:96:VAL:HG13	1.86	0.58
59:C3:34:ILE:HG13	59:C3:67:THR:HG21	1.83	0.58
1:5:981:U:H2'	1:5:982:C:O4'	2.04	0.58
1:5:1233:G:H5'	82:p0:36:GLN:OE1	2.04	0.58
1:5:2376:G:H2'	1:5:2377:G:C8	2.39	0.58
1:5:2698:G:O2'	22:n1:12:ARG:HG3	2.03	0.58
1:5:2726:C:O2'	1:5:2727:A:H2'	2.04	0.58
7:l5:75:LEU:O	7:l5:112:LYS:NZ	2.36	0.58
22:n1:68:THR:HG22	22:n1:71:SER:O	2.04	0.58
45:6:973:A:H2'	45:6:974:A:C8	2.39	0.58
56:c0:52:LYS:HD3	56:c0:54:TYR:HE1	1.69	0.58
61:c5:126:VAL:HG13	61:c5:127:ARG:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:d0:20:ILE:O	66:d0:94:GLU:HA	2.02	0.58
69:d3:54:LEU:HB2	69:d3:73:ARG:HB3	1.85	0.58
1:1:847:A:N1	45:2:972:G:O2'	2.29	0.58
1:1:1506:A:H1'	1:1:1848:G:O6	2.04	0.58
1:1:1916:U:O3'	20:M9:85:ARG:NH2	2.36	0.58
1:1:3215:A:H5'	15:M4:121:MET:HE1	1.86	0.58
1:1:3335:A:H2'	1:1:3336:A:C8	2.39	0.58
11:L9:86:TYR:CE2	11:L9:151:VAL:HG22	2.38	0.58
12:M0:3:ARG:CZ	12:M0:63:GLU:HG3	2.33	0.58
39:O8:65:LEU:HD23	39:O8:68:SER:HB2	1.86	0.58
45:2:26:A:O2'	45:2:27:U:O5'	2.19	0.58
45:2:157:A:N6	52:S6:59:GLN:O	2.37	0.58
45:2:930:A:H2'	47:S1:114:VAL:HG11	1.86	0.58
55:S9:106:GLU:O	55:S9:111:THR:OG1	2.19	0.58
58:C2:55:GLY:H	79:SM:173:GLU:CB	2.17	0.58
1:5:1511:U:H5''	1:5:1512:U:H5	1.69	0.58
1:5:1921:A:H2'	1:5:1922:A:C8	2.39	0.58
1:5:2229:A:H2'	1:5:2230:C:C6	2.39	0.58
1:5:2356:A:OP1	18:m7:138:LYS:NZ	2.36	0.58
12:m0:68:ALA:HB2	12:m0:158:LYS:HB2	1.86	0.58
19:m8:81:VAL:HG12	19:m8:101:VAL:HA	1.86	0.58
27:n6:45:ILE:HD11	27:n6:122:LYS:HB2	1.85	0.58
44:q3:49:ARG:HB2	44:q3:55:TRP:CZ3	2.39	0.58
45:6:211:U:H5''	57:c1:20:PHE:CD1	2.39	0.58
45:6:865:A:OP1	68:d2:28:ARG:NH2	2.30	0.58
45:6:1559:A:H5''	64:c8:135:GLY:CA	2.34	0.58
52:s6:169:TYR:HE2	52:s6:171:LYS:HE3	1.69	0.58
52:s6:182:GLN:O	52:s6:182:GLN:NE2	2.37	0.58
53:s7:141:ARG:HH22	53:s7:143:LEU:HD11	1.69	0.58
55:s9:119:ALA:O	55:s9:124:HIS:ND1	2.32	0.58
71:d5:49:ARG:HD2	71:d5:53:GLU:OE1	2.04	0.58
75:d9:7:TRP:H	75:d9:7:TRP:HD1	1.49	0.58
1:1:239:G:O2'	1:1:240:U:O5'	2.12	0.57
1:1:2593:A:H4'	1:1:2594:C:O5'	2.04	0.57
1:1:3376:A:H5'	1:1:3377:G:H5''	1.86	0.57
9:L7:121:LYS:HB2	22:N1:133:ALA:HB3	1.85	0.57
17:M6:189:ASP:O	17:M6:193:GLN:HG3	2.04	0.57
45:2:168:A:OP1	52:S6:140:ASN:ND2	2.32	0.57
45:2:1564:U:H2'	45:2:1565:C:C6	2.39	0.57
48:S2:179:VAL:O	48:S2:198:THR:OG1	2.12	0.57
63:C7:34:LEU:O	63:C7:38:ILE:HG22	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:D2:104:LEU:HB2	68:D2:125:ILE:HA	1.85	0.57
1:5:1238:C:O2'	1:5:1239:C:OP1	2.21	0.57
20:m9:4:LEU:HD23	20:m9:7:GLN:HE21	1.68	0.57
26:n5:63:ILE:HD11	26:n5:84:PHE:CD1	2.39	0.57
27:n6:57:LEU:HB3	27:n6:105:VAL:HG12	1.85	0.57
30:n9:28:LYS:HG3	30:n9:29:TYR:CD1	2.38	0.57
43:q2:28:TYR:HE1	43:q2:30:ALA:HA	1.69	0.57
45:6:514:G:N7	45:6:537:G:N2	2.51	0.57
45:6:1081:A:N3	45:6:1082:C:H5	2.02	0.57
45:6:1459:C:H4'	61:c5:126:VAL:HG11	1.86	0.57
50:s4:131:LEU:HD11	50:s4:135:GLY:HA2	1.85	0.57
52:s6:98:ARG:HD3	52:s6:99:GLY:N	2.18	0.57
64:c8:140:THR:O	64:c8:143:ARG:HD3	2.03	0.57
1:1:52:A:OP2	87:1:4167:HOH:O	2.17	0.57
28:N7:64:LYS:O	28:N7:67:LYS:HG2	2.04	0.57
47:S1:30:PHE:CD1	47:S1:96:LEU:HD12	2.40	0.57
47:S1:103:MET:HB3	47:S1:215:VAL:HG12	1.86	0.57
62:C6:38:LEU:C	62:C6:40:GLU:H	2.11	0.57
62:C6:47:LYS:HA	62:C6:50:GLU:HG3	1.86	0.57
1:5:250:U:H3'	1:5:251:G:H5'	1.85	0.57
1:5:358:G:N2	1:5:361:A:OP2	2.34	0.57
1:5:1152:G:H22	1:5:1200:A:N6	1.95	0.57
8:l6:3:ALA:HB2	33:o2:77:ALA:HB2	1.86	0.57
45:6:828:U:N3	45:6:844:A:N1	2.53	0.57
45:6:1508:U:H2'	45:6:1509:C:C6	2.39	0.57
57:e1:125:VAL:HG22	57:e1:139:VAL:HA	1.85	0.57
77:e1:105:TYR:HB3	77:e1:117:LEU:HD22	1.86	0.57
1:1:291:C:H5''	16:M5:68:ARG:NH1	2.19	0.57
1:1:591:G:N2	1:1:612:U:OP1	2.37	0.57
1:1:1494:U:OP1	40:O9:42:ARG:NH2	2.37	0.57
2:3:30:G:H1	2:3:47:C:H42	1.53	0.57
6:L4:280:ILE:HD12	19:M8:29:LEU:HD12	1.86	0.57
16:M5:120:TRP:NE1	16:M5:123:GLN:OE1	2.29	0.57
19:M8:94:PHE:CE2	29:N8:119:PRO:HD3	2.38	0.57
43:Q2:15:LYS:HA	43:Q2:18:ARG:HG3	1.86	0.57
47:S1:48:VAL:HG21	47:S1:61:LEU:HD21	1.86	0.57
53:S7:25:VAL:HA	53:S7:28:GLU:HB2	1.86	0.57
55:S9:152:SER:O	55:S9:156:ILE:HG13	2.04	0.57
61:C5:30:THR:HG23	61:C5:86:VAL:HG21	1.87	0.57
72:D6:42:ARG:O	72:D6:67:THR:N	2.34	0.57
78:SR:243:LEU:HD23	78:SR:254:ALA:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:598:A:OP1	9:l7:41:ARG:NH1	2.38	0.57
1:5:1722:U:H5''	20:m9:99:LEU:HD12	1.85	0.57
1:5:2767:U:OP1	43:q2:33:ALA:HA	2.04	0.57
3:8:154:C:O2'	10:l8:185:ARG:HG3	2.05	0.57
16:m5:15:GLN:HB3	37:o6:52:PRO:HD2	1.85	0.57
31:o0:84:LEU:H	31:o0:84:LEU:HD12	1.69	0.57
32:o1:19:ARG:HD3	32:o1:35:GLU:HG3	1.87	0.57
32:o1:58:ALA:O	32:o1:61:LYS:NZ	2.36	0.57
48:s2:227:PRO:HA	48:s2:230:TRP:CD1	2.39	0.57
48:s2:227:PRO:HA	48:s2:230:TRP:CG	2.40	0.57
55:s9:161:THR:HG22	55:s9:162:SER:H	1.70	0.57
60:c4:92:LYS:HD2	60:c4:121:VAL:HG22	1.85	0.57
1:1:1414:G:H2'	1:1:1415:U:H6	1.70	0.57
1:1:1655:G:H5'	1:1:1655:G:H8	1.69	0.57
1:1:1761:C:H2'	1:1:1762:C:H5'	1.86	0.57
1:1:2673:A:H5''	13:M1:95:ASN:HA	1.87	0.57
3:4:70:G:N2	85:4:224:LLL:H212	2.03	0.57
19:M8:79:LYS:HA	19:M8:136:ASN:HD21	1.69	0.57
34:O3:35:VAL:HG13	34:O3:40:ASP:HB3	1.87	0.57
34:O3:45:LEU:HD23	34:O3:71:VAL:HG12	1.85	0.57
45:2:109:G:H1	45:2:305:C:H42	1.53	0.57
45:2:1235:C:H5'	77:E1:146:SER:HB2	1.86	0.57
45:2:1361:U:O2'	45:2:1362:U:H5''	2.04	0.57
45:2:1424:A:C1'	48:S2:92:ALA:HB1	2.33	0.57
65:C9:73:VAL:HG22	65:C9:105:LEU:HD12	1.85	0.57
1:5:359:U:H4'	1:5:817:A:N6	2.20	0.57
1:5:776:U:H5	1:5:2719:U:O2	1.86	0.57
1:5:1485:G:N2	35:o4:4:ARG:HD2	2.19	0.57
12:m0:210:ILE:HA	12:m0:217:PHE:CE2	2.39	0.57
13:m1:92:ARG:NH2	13:m1:94:ARG:HH11	2.02	0.57
45:6:958:U:H2'	59:c3:14:SER:OG	2.04	0.57
45:6:1711:C:H2'	45:6:1712:A:H5''	1.86	0.57
47:s1:96:LEU:H	47:s1:96:LEU:HD13	1.68	0.57
54:s8:100:ALA:O	54:s8:101:ILE:HB	2.03	0.57
68:d2:37:PHE:CE1	68:d2:103:ILE:HG12	2.38	0.57
78:sR:38:ARG:HA	78:sR:67:ILE:HG23	1.85	0.57
1:1:3166:C:H2'	1:1:3167:A:H8	1.70	0.57
6:L4:154:THR:HG23	6:L4:253:ALA:HB2	1.84	0.57
13:M1:116:TYR:CD2	13:M1:122:ILE:HD11	2.39	0.57
14:M3:75:PHE:H	14:M3:97:VAL:HA	1.69	0.57
26:N5:108:LEU:HD12	26:N5:125:ARG:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:O2:19:ARG:HE	33:O2:33:ARG:HG3	1.69	0.57
43:Q2:43:TYR:O	43:Q2:47:GLN:HB2	2.04	0.57
45:2:542:A:C8	45:2:543:C:H2'	2.39	0.57
48:S2:103:VAL:HG22	48:S2:113:LEU:HD23	1.86	0.57
57:C1:64:VAL:HG11	57:C1:131:ILE:HD11	1.85	0.57
62:C6:30:LYS:HA	62:C6:35:PRO:HA	1.86	0.57
63:C7:21:TYR:HA	63:C7:58:MET:HE1	1.87	0.57
74:D8:32:PHE:CZ	74:D8:38:ARG:HB3	2.39	0.57
1:5:1638:A:N1	1:5:1736:G:O2'	2.30	0.57
5:l3:77:THR:HG23	5:l3:326:GLY:O	2.04	0.57
12:m0:61:SER:HG	12:m0:64:ALA:H	1.51	0.57
14:m3:156:ALA:HB1	29:n8:98:THR:O	2.04	0.57
45:6:611:U:H5'	69:d3:15:LEU:HD13	1.85	0.57
45:6:846:G:H2'	45:6:847:A:C8	2.39	0.57
45:6:891:A:H61	45:6:921:U:H3	1.52	0.57
52:s6:3:LEU:HD22	52:s6:111:LEU:HD21	1.86	0.57
72:d6:30:ILE:HG13	72:d6:31:PRO:HD2	1.87	0.57
6:L4:8:VAL:HG12	6:L4:9:HIS:H	1.69	0.57
6:L4:156:LEU:HD23	6:L4:159:ILE:HD12	1.87	0.57
9:L7:158:LYS:CE	9:L7:159:GLN:H	2.17	0.57
45:2:585:A:H2'	45:2:586:G:C8	2.39	0.57
45:2:1433:G:C8	75:D9:41:GLN:HG2	2.39	0.57
45:2:1525:A:OP1	65:C9:82:GLY:HA2	2.04	0.57
46:S0:71:GLU:HA	46:S0:94:GLY:C	2.30	0.57
55:S9:34:PHE:CE1	55:S9:105:LEU:HB3	2.39	0.57
57:C1:108:PRO:CG	57:C1:134:THR:HB	2.35	0.57
57:C1:123:VAL:HG12	57:C1:125:VAL:HG23	1.87	0.57
78:SR:109:ASP:HB2	78:SR:127:ARG:HB2	1.86	0.57
1:5:3067:C:OP2	20:m9:62:ARG:NH1	2.37	0.57
6:l4:138:ARG:HG3	6:l4:244:LEU:O	2.05	0.57
6:l4:282:SER:OG	6:l4:283:THR:N	2.37	0.57
29:n8:66:ALA:HB1	29:n8:69:TRP:HB2	1.86	0.57
36:o5:47:VAL:O	36:o5:51:ILE:HG13	2.05	0.57
45:6:119:A:H1'	45:6:397:A:C5	2.39	0.57
45:6:252:U:H5''	50:s4:133:LYS:HA	1.87	0.57
45:6:1041:G:H2'	45:6:1042:G:C8	2.39	0.57
45:6:1237:G:H2'	45:6:1238:A:C8	2.40	0.57
45:6:1390:U:O2	63:c7:3:ARG:NH2	2.38	0.57
48:s2:164:SER:O	48:s2:202:GLY:HA3	2.04	0.57
49:s3:175:VAL:HG12	49:s3:182:LEU:O	2.04	0.57
49:s3:222:VAL:HG11	78:sR:229:LYS:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:sR:248:ASN:HD21	78:sR:298:GLY:HA3	1.68	0.57
1:1:2526:C:OP1	4:L2:37:ARG:NH2	2.37	0.57
26:N5:135:ILE:HD11	26:N5:138:ARG:HH11	1.67	0.57
45:2:1613:U:H2'	45:2:1614:A:H5''	1.86	0.57
47:S1:100:PHE:CB	47:S1:181:LEU:HD12	2.34	0.57
49:S3:220:PRO:HB3	78:SR:221:MET:HE1	1.87	0.57
62:C6:49:TYR:HB3	62:C6:53:LEU:HD11	1.86	0.57
1:5:929:A:H2'	1:5:930:U:H6	1.69	0.57
1:5:1334:U:H5'	9:l7:207:LEU:O	2.04	0.57
1:5:2436:U:H3	1:5:2511:A:N6	2.02	0.57
1:5:2904:U:H2'	1:5:2905:U:C6	2.40	0.57
1:5:3383:G:H2'	1:5:3384:U:H6	1.69	0.57
17:m6:98:ALA:HA	17:m6:101:ARG:NH1	2.19	0.57
26:n5:67:ILE:HB	26:n5:83:VAL:HG12	1.87	0.57
45:6:540:G:O2'	45:6:542:A:OP2	2.21	0.57
45:6:676:G:H2'	45:6:677:G:H5'	1.87	0.57
45:6:743:U:OP2	53:s7:107:ARG:NH1	2.38	0.57
45:6:1120:U:H2'	45:6:1121:C:C6	2.39	0.57
49:s3:210:GLU:OE2	63:c7:19:ARG:NH1	2.38	0.57
55:s9:86:LEU:HD13	55:s9:99:LEU:HD11	1.87	0.57
57:c1:99:ARG:HB3	69:d3:12:ALA:HB2	1.87	0.57
1:1:642:U:OP1	29:N8:22:ILE:HG23	2.04	0.57
87:1:4318:HOH:O	29:N8:15:VAL:HG22	2.04	0.57
3:4:67:U:O4	85:4:224:LLL:N32	2.38	0.57
45:2:1542:G:N2	45:2:1568:C:H1'	2.20	0.57
54:S8:189:LEU:O	54:S8:193:LEU:HB2	2.04	0.57
78:SR:264:SER:O	78:SR:268:GLN:HA	2.05	0.57
1:5:36:C:H2'	1:5:37:U:H5'	1.85	0.57
1:5:1253:U:O2	1:5:1263:A:H5'	2.04	0.57
1:5:1667:A:H2'	1:5:1668:G:C8	2.40	0.57
12:m0:47:PRO:HB2	12:m0:178:ARG:NH1	2.18	0.57
13:m1:52:TYR:HA	13:m1:61:ARG:HB2	1.87	0.57
16:m5:73:ARG:NH1	16:m5:88:GLY:O	2.38	0.57
35:o4:8:ARG:HH21	35:o4:31:ARG:HH11	1.52	0.57
45:6:603:U:H2'	45:6:604:A:H8	1.70	0.57
73:d7:55:THR:HG22	73:d7:62:ILE:HA	1.87	0.57
1:1:597:G:OP1	9:L7:37:ASN:HB3	2.04	0.57
1:1:1815:U:O2'	1:1:1816:A:OP2	2.19	0.57
1:1:2885:C:O2'	1:1:2886:U:H5'	2.05	0.57
1:1:3281:U:H2'	1:1:3282:U:C6	2.39	0.57
21:N0:154:HIS:CE1	21:N0:170:THR:HG21	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:O7:5:THR:HA	38:O7:8:PHE:HD2	1.70	0.57
45:2:386:G:H2'	45:2:387:A:C8	2.40	0.57
47:S1:190:PRO:O	47:S1:191:GLU:HG2	2.05	0.57
48:S2:230:TRP:CD2	68:D2:68:ARG:HD3	2.40	0.57
51:S5:57:SER:O	51:S5:59:VAL:N	2.37	0.57
57:C1:125:VAL:CG1	57:C1:137:PHE:HB3	2.35	0.57
60:C4:87:GLY:HA3	60:C4:120:PRO:HG2	1.87	0.57
69:D3:24:TRP:CE3	69:D3:30:LYS:HD3	2.36	0.57
71:D5:42:LEU:O	71:D5:46:LYS:HB2	2.05	0.57
1:5:1307:G:H1'	1:5:1308:A:C8	2.39	0.57
1:5:1385:C:HO2'	8:l6:2:SER:N	2.02	0.57
2:7:23:A:H2'	2:7:24:A:C8	2.40	0.57
45:6:755:A:O2'	45:6:756:A:OP1	2.23	0.57
46:s0:9:LEU:HD11	46:s0:14:ALA:HB2	1.85	0.57
56:c0:1:MET:HE1	56:c0:40:LEU:HD22	1.86	0.57
59:c3:60:VAL:HG13	59:c3:66:ILE:HD11	1.87	0.57
65:c9:141:GLU:HA	65:c9:144:GLU:HB2	1.87	0.57
1:1:1316:C:C2	17:M6:130:LYS:HG3	2.40	0.57
1:1:1389:G:N2	1:1:1390:A:N1	2.53	0.57
1:1:1508:C:OP1	1:1:2354:C:O2'	2.21	0.57
1:1:2741:C:H4'	43:Q2:19:LYS:HA	1.86	0.57
87:1:4128:HOH:O	7:L5:32:GLN:NE2	2.35	0.57
14:M3:62:THR:O	14:M3:66:ASN:HB3	2.04	0.57
20:M9:21:LYS:O	20:M9:53:LYS:HB2	2.05	0.57
21:N0:88:HIS:N	21:N0:88:HIS:ND1	2.52	0.57
29:N8:126:LYS:HB3	29:N8:148:ILE:HD13	1.87	0.57
31:O0:95:ALA:HB1	31:O0:100:ILE:HD13	1.87	0.57
45:2:844:A:H2'	45:2:845:G:C8	2.40	0.57
45:2:1480:G:H4'	65:C9:11:ALA:HB1	1.86	0.57
56:C0:14:TYR:OH	56:C0:34:GLU:OE1	2.15	0.57
59:C3:30:SER:HB3	59:C3:67:THR:HG22	1.86	0.57
77:E1:89:LYS:HG3	77:E1:90:LYS:H	1.69	0.57
1:5:1317:A:O2'	1:5:1318:A:H3'	2.04	0.57
1:5:1686:U:OP1	23:n2:42:LYS:NZ	2.24	0.57
5:l3:50:LYS:HG3	5:l3:332:ARG:HA	1.85	0.57
18:m7:41:LEU:HD23	18:m7:41:LEU:O	2.04	0.57
23:n2:43:VAL:HB	23:n2:49:ASN:HB3	1.87	0.57
40:o9:23:LEU:HD22	40:o9:24:PRO:HD2	1.86	0.57
45:6:1102:G:OP2	69:d3:7:ARG:HD3	2.05	0.57
52:s6:208:TYR:O	52:s6:212:LEU:N	2.35	0.57
54:s8:66:SER:O	54:s8:183:ILE:HG22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:49:A:OP1	14:M3:16:LYS:NZ	2.30	0.56
1:1:655:C:H2'	1:1:656:A:C8	2.39	0.56
1:1:1367:G:OP1	33:O2:45:ARG:NH2	2.39	0.56
1:1:1725:C:H2'	1:1:1726:C:H6	1.70	0.56
1:1:2436:U:H3	1:1:2511:A:H61	1.51	0.56
1:1:2775:U:H2'	1:1:2776:C:C6	2.40	0.56
1:1:3288:G:H2'	1:1:3289:G:H5'	1.87	0.56
2:3:96:U:H4'	21:N0:119:ARG:HB2	1.87	0.56
11:L9:173:ARG:HD2	41:Q0:127:LEU:HG	1.86	0.56
18:M7:173:ARG:HA	18:M7:176:ILE:HG12	1.87	0.56
32:O1:31:ARG:HH11	32:O1:31:ARG:HB3	1.70	0.56
33:O2:121:ASN:N	33:O2:121:ASN:OD1	2.38	0.56
45:2:1297:G:N2	45:2:1300:A:OP2	2.34	0.56
45:2:1317:C:H2'	45:2:1318:G:O4'	2.04	0.56
45:2:1483:A:OP2	45:2:1521:G:N2	2.23	0.56
50:S4:100:ARG:NH2	50:S4:121:TYR:O	2.38	0.56
54:S8:72:ILE:HG21	54:S8:112:TRP:CZ2	2.40	0.56
68:D2:85:ASP:HA	68:D2:88:LYS:HG3	1.87	0.56
75:D9:10:HIS:ND1	75:D9:11:PRO:HD2	2.20	0.56
1:5:201:A:H2'	1:5:202:G:C8	2.40	0.56
1:5:1561:G:O2'	1:5:1562:C:OP2	2.23	0.56
1:5:2412:G:H2'	1:5:2413:A:C8	2.40	0.56
1:5:2859:U:O2'	85:5:4177:LLL:H221	2.05	0.56
3:8:9:A:H2'	3:8:10:A:C8	2.39	0.56
5:l3:3:HIS:ND1	5:l3:3:HIS:O	2.38	0.56
6:l4:198:ARG:NH1	27:n6:12:ARG:HH12	2.03	0.56
14:m3:134:GLU:CG	14:m3:135:ALA:H	2.16	0.56
45:6:57:G:OP2	70:d4:116:LYS:NZ	2.22	0.56
45:6:568:G:N7	69:d3:69:ARG:NH2	2.53	0.56
64:c8:26:ILE:HD11	64:c8:31:ALA:HA	1.86	0.56
1:1:353:G:N2	1:1:364:G:H2'	2.19	0.56
1:1:438:A:HO2'	1:1:495:G:HO2'	1.53	0.56
1:1:1323:G:H5''	21:N0:1:MET:HA	1.87	0.56
1:1:2895:G:H5'	1:1:3107:U:O2'	2.05	0.56
5:L3:76:VAL:HG12	5:L3:325:LYS:HA	1.87	0.56
10:L8:46:LEU:O	10:L8:49:TYR:N	2.29	0.56
17:M6:127:LEU:HD11	21:N0:168:PRO:HG3	1.86	0.56
23:N2:93:ILE:HG21	23:N2:105:LEU:HD23	1.87	0.56
27:N6:55:GLU:HG2	27:N6:69:LYS:HG3	1.87	0.56
46:S0:119:ARG:NH2	48:S2:238:SER:OG	2.38	0.56
47:S1:92:GLN:HE21	47:S1:95:ASN:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:140:C:OP1	10:l8:106:LYS:NZ	2.19	0.56
1:5:440:A:H2	1:5:492:U:N3	2.03	0.56
1:5:1818:U:H2'	1:5:1819:U:C6	2.40	0.56
1:5:1831:U:OP2	26:n5:92:LYS:HD2	2.05	0.56
1:5:3048:A:H5'	5:l3:53:MET:HE3	1.86	0.56
1:5:3276:G:H22	34:o3:60:ARG:HH12	1.52	0.56
85:8:222:LLL:H212	36:o5:78:LYS:HZ2	1.51	0.56
7:l5:160:PHE:HA	7:l5:163:LEU:HB3	1.87	0.56
9:l7:173:LEU:HD23	9:l7:178:ILE:HG21	1.86	0.56
13:m1:107:ASP:OD1	13:m1:107:ASP:N	2.37	0.56
39:o8:61:LYS:HA	39:o8:64:LYS:HB3	1.86	0.56
45:6:629:U:C2	45:6:630:A:C8	2.93	0.56
45:6:871:G:H2'	45:6:872:G:C8	2.41	0.56
45:6:1331:A:OP1	63:c7:45:ARG:NH2	2.38	0.56
50:s4:100:ARG:NH2	50:s4:122:LYS:HA	2.20	0.56
66:d0:20:ILE:HD12	66:d0:100:VAL:HG21	1.87	0.56
1:1:1422:G:H21	8:L6:5:LYS:NZ	2.03	0.56
1:1:1445:U:H5''	1:1:1446:A:OP2	2.05	0.56
7:L5:107:ARG:NH1	7:L5:169:GLY:O	2.38	0.56
7:L5:261:THR:HG23	7:L5:264:GLN:HE21	1.70	0.56
9:L7:84:VAL:HG11	9:L7:127:LEU:HD11	1.87	0.56
13:M1:99:THR:O	13:M1:154:THR:OG1	2.24	0.56
15:M4:37:GLU:HG3	15:M4:74:ARG:HG2	1.86	0.56
27:N6:17:LYS:O	27:N6:21:THR:OG1	2.20	0.56
27:N6:32:SER:HA	27:N6:49:PRO:HA	1.87	0.56
45:2:434:G:OP1	69:D3:78:LYS:HA	2.05	0.56
45:2:435:C:H2'	45:2:436:A:C8	2.40	0.56
45:2:778:G:H2'	45:2:779:U:H2'	1.86	0.56
45:2:1031:U:H4'	45:2:1032:G:OP2	2.05	0.56
45:2:1172:G:H4'	45:2:1569:A:H2	1.70	0.56
45:2:1433:G:H2'	45:2:1434:U:C6	2.40	0.56
49:S3:125:TYR:OH	79:SM:134:ASP:OD2	2.23	0.56
67:D1:34:ILE:HG13	67:D1:69:LEU:HD11	1.87	0.56
71:D5:89:ILE:HA	71:D5:102:THR:O	2.06	0.56
75:D9:4:GLU:HG2	75:D9:5:ASN:N	2.19	0.56
78:SR:101:GLN:HG2	78:SR:138:GLY:HA3	1.86	0.56
1:5:18:G:N7	85:8:222:LLL:H51	2.20	0.56
1:5:392:G:O2'	27:n6:90:VAL:HG11	2.06	0.56
1:5:2418:G:H4'	1:5:2419:A:OP2	2.05	0.56
1:5:2530:G:H2'	1:5:2531:C:H5'	1.87	0.56
1:5:3050:U:O2'	81:n4:16:GLY:O	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:3335:A:H2'	1:5:3336:A:C8	2.40	0.56
2:7:10:C:OP2	22:n1:26:HIS:ND1	2.36	0.56
2:7:51:A:H4'	85:7:231:LLL:H833	1.87	0.56
2:7:112:G:H2'	2:7:113:C:C6	2.40	0.56
4:l2:133:TYR:HB3	4:l2:168:VAL:HG12	1.87	0.56
6:l4:283:THR:HB	6:l4:285:ASP:H	1.71	0.56
6:l4:330:TYR:O	6:l4:334:PHE:N	2.35	0.56
80:m2:64:UNK:N	80:m2:71:UNK:O	2.38	0.56
30:n9:23:LYS:HB3	30:n9:24:PRO:HD2	1.87	0.56
32:o1:75:ILE:HG12	32:o1:93:VAL:HG13	1.87	0.56
33:o2:82:LEU:HD11	33:o2:112:ALA:HB2	1.86	0.56
46:s0:185:ARG:H	67:d1:44:ARG:HA	1.70	0.56
49:s3:207:THR:HB	63:c7:40:THR:OG1	2.05	0.56
50:s4:68:ARG:HB3	50:s4:76:VAL:HG11	1.85	0.56
51:s5:127:GLN:CG	51:s5:128:ASN:H	2.18	0.56
63:c7:33:ARG:NH2	78:sR:85:TRP:HB3	2.20	0.56
64:c8:139:LYS:O	64:c8:143:ARG:NH1	2.34	0.56
66:d0:43:LYS:O	66:d0:47:GLN:N	2.30	0.56
73:d7:56:CYS:SG	73:d7:57:GLU:N	2.79	0.56
1:1:595:G:N1	1:1:609:G:H5''	2.19	0.56
1:1:2369:G:H2'	1:1:2370:G:C8	2.41	0.56
1:1:2642:A:OP2	22:N1:3:LYS:HE3	2.04	0.56
1:1:3154:C:H2'	1:1:3154:C:O2	2.04	0.56
1:1:3366:G:H2'	1:1:3367:C:C6	2.41	0.56
11:L9:47:LYS:NZ	15:M4:6:ILE:H	2.03	0.56
29:N8:73:LEU:HD21	29:N8:78:LEU:HA	1.88	0.56
45:2:72:A:H2'	45:2:73:U:O4'	2.05	0.56
45:2:209:U:H2'	45:2:210:A:C8	2.41	0.56
45:2:329:G:H2'	45:2:330:G:H8	1.69	0.56
45:2:1523:G:N7	65:C9:68:ARG:NH1	2.53	0.56
79:SM:88:ARG:CZ	79:SM:96:ARG:HH12	2.18	0.56
1:5:1258:U:OP1	82:p0:46:ARG:NH2	2.38	0.56
1:5:1601:U:OP2	20:m9:42:ARG:NH2	2.38	0.56
5:l3:103:THR:HG21	5:l3:147:GLU:OE2	2.06	0.56
5:l3:107:ALA:HA	5:l3:199:PHE:CD2	2.40	0.56
11:l9:90:MET:HB2	11:l9:144:ILE:HG23	1.87	0.56
11:l9:137:SER:OG	11:l9:143:GLU:HG2	2.06	0.56
81:n4:106:GLU:HB3	81:n4:110:LYS:HE3	1.85	0.56
45:6:1121:C:H2'	45:6:1122:G:H8	1.71	0.56
48:s2:65:GLU:HB2	48:s2:68:ILE:HG13	1.88	0.56
50:s4:31:PRO:HB3	50:s4:43:PRO:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:c8:13:HIS:O	64:c8:14:ILE:HG22	2.06	0.56
73:d7:62:ILE:HG13	73:d7:63:LEU:H	1.70	0.56
1:1:2226:U:H2'	1:1:2227:C:H6	1.70	0.56
6:L4:135:VAL:HA	6:L4:245:GLY:O	2.06	0.56
10:L8:94:PHE:CE2	10:L8:200:LEU:HG	2.40	0.56
13:M1:117:ASP:OD2	13:M1:119:SER:OG	2.22	0.56
34:O3:48:ARG:HG3	34:O3:104:PRO:HD3	1.87	0.56
45:2:169:A:OP2	52:S6:137:ARG:NH2	2.38	0.56
45:2:332:U:O2'	54:S8:5:ARG:NH1	2.38	0.56
45:2:788:A:OP1	50:S4:106:LYS:NZ	2.26	0.56
45:2:827:C:H2'	45:2:828:U:H6	1.71	0.56
45:2:1615:C:H4'	45:2:1616:G:O5'	2.05	0.56
50:S4:57:ASN:HD22	50:S4:59:ARG:HB3	1.70	0.56
67:D1:40:ASP:HB3	67:D1:46:ILE:HD11	1.88	0.56
1:5:499:G:H2'	1:5:500:C:C6	2.40	0.56
1:5:679:U:H2'	1:5:680:G:C8	2.41	0.56
1:5:945:C:H2'	1:5:946:U:C6	2.40	0.56
1:5:1238:C:H2'	1:5:1239:C:O4'	2.06	0.56
1:5:1547:G:O2'	1:5:1548:C:H5'	2.06	0.56
1:5:2676:A:H4'	1:5:2677:G:O5'	2.06	0.56
5:l3:47:LEU:HD12	5:l3:335:ILE:HD11	1.85	0.56
17:m6:178:VAL:O	17:m6:182:ASN:HB3	2.04	0.56
82:p0:48:ARG:HG2	82:p0:91:GLU:H	1.70	0.56
45:6:145:A:HO2'	45:6:146:U:P	2.28	0.56
45:6:1071:U:H2'	45:6:1072:C:C6	2.40	0.56
45:6:1098:U:OP2	48:s2:168:ARG:NE	2.34	0.56
49:s3:21:LEU:HG	49:s3:77:PHE:HE2	1.69	0.56
49:s3:177:MET:N	49:s3:180:GLY:O	2.37	0.56
69:d3:102:VAL:HB	69:d3:124:VAL:HG13	1.87	0.56
72:d6:45:VAL:HG11	72:d6:53:LEU:HG	1.87	0.56
1:1:67:A:N1	1:1:300:G:O2'	2.33	0.56
6:L4:295:ILE:O	6:L4:299:ILE:HG13	2.05	0.56
10:L8:86:THR:O	10:L8:90:THR:OG1	2.22	0.56
13:M1:19:LEU:HD13	13:M1:40:LEU:HD13	1.88	0.56
32:O1:86:LYS:H	32:O1:86:LYS:HD2	1.70	0.56
45:2:93:A:O2'	50:S4:4:GLY:HA3	2.05	0.56
49:S3:70:THR:HG22	49:S3:86:LEU:HB2	1.87	0.56
57:C1:55:ASP:HB2	57:C1:82:ARG:NH1	2.20	0.56
57:C1:57:LYS:HD3	57:C1:131:ILE:HG23	1.86	0.56
62:C6:79:TYR:HA	62:C6:82:ARG:HD3	1.88	0.56
63:C7:83:GLN:O	63:C7:84:TYR:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:C9:6:VAL:HB	65:C9:14:PHE:CE1	2.41	0.56
65:C9:61:VAL:O	65:C9:65:ILE:HG13	2.05	0.56
71:D5:59:TYR:HD2	71:D5:60:VAL:N	2.04	0.56
1:5:1508:C:OP1	18:m7:127:ARG:NH2	2.39	0.56
1:5:2179:C:O3'	4:l2:174:ARG:NH2	2.39	0.56
1:5:3121:U:H1'	1:5:3122:A:H5''	1.87	0.56
2:7:72:A:H62	85:7:232:LLL:H312	1.69	0.56
5:l3:152:LYS:HG3	5:l3:192:VAL:HG11	1.88	0.56
9:l7:229:PHE:CD1	9:l7:229:PHE:C	2.83	0.56
10:l8:160:ILE:HG13	10:l8:164:VAL:HG13	1.87	0.56
13:m1:166:LYS:HG3	13:m1:167:TYR:CD1	2.41	0.56
16:m5:11:GLN:HG2	16:m5:44:ARG:NH2	2.21	0.56
45:6:82:U:H2'	45:6:83:G:O4'	2.06	0.56
45:6:933:A:OP1	72:d6:70:LYS:NZ	2.34	0.56
45:6:1102:G:H2'	45:6:1103:U:O4'	2.05	0.56
45:6:1498:G:H5''	65:c9:72:GLY:HA3	1.86	0.56
45:6:1684:U:H1'	45:6:1718:G:N2	2.21	0.56
67:d1:24:ILE:HD11	67:d1:56:SER:HA	1.87	0.56
1:1:822:G:OP2	85:1:4000:LLL:H831	2.05	0.56
1:1:824:C:H2'	1:1:825:U:C6	2.41	0.56
1:1:2941:A:OP2	5:L3:256:HIS:HD2	1.89	0.56
1:1:3315:G:OP2	5:L3:116:ARG:NH1	2.38	0.56
4:L2:5:ILE:HG22	4:L2:208:ASP:O	2.05	0.56
6:L4:33:ASP:O	6:L4:37:THR:HG23	2.04	0.56
7:L5:106:ALA:HB2	7:L5:166:ALA:HA	1.87	0.56
7:L5:196:ARG:HH22	7:L5:237:GLU:CD	2.14	0.56
8:L6:154:LEU:HA	8:L6:157:GLN:OE1	2.05	0.56
10:L8:78:PHE:C	10:L8:80:TYR:H	2.14	0.56
15:M4:7:VAL:HG13	15:M4:8:LYS:O	2.06	0.56
45:2:765:G:C6	55:S9:149:ARG:HD3	2.41	0.56
45:2:803:A:C8	53:S7:104:ARG:HG3	2.40	0.56
45:2:986:G:H2'	45:2:987:G:O4'	2.05	0.56
49:S3:113:LEU:HD21	49:S3:117:ARG:NH1	2.21	0.56
51:S5:40:ILE:HD13	51:S5:42:LEU:HD11	1.88	0.56
61:C5:24:LYS:O	61:C5:28:MET:HB2	2.05	0.56
62:C6:99:GLU:HG2	78:SR:57:PRO:HB2	1.87	0.56
78:SR:169:ILE:HD11	78:SR:183:LEU:HD21	1.87	0.56
79:SM:97:THR:HG22	79:SM:99:LYS:HG3	1.86	0.56
1:5:110:G:OP2	14:m3:73:ARG:NH1	2.38	0.56
1:5:1506:A:H1'	1:5:1848:G:O6	2.06	0.56
1:5:3212:C:OP2	15:m4:124:ARG:NH2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:l8:143:ILE:HD11	10:l8:151:VAL:HG21	1.86	0.56
18:m7:113:TYR:CE1	18:m7:115:SER:HA	2.40	0.56
45:6:1081:A:OP2	45:6:1081:A:H8	1.89	0.56
45:6:1182:U:O2	45:6:1184:A:H8	1.89	0.56
46:s0:3:LEU:HD22	46:s0:62:ARG:HH22	1.71	0.56
46:s0:7:PHE:CE2	46:s0:191:ARG:HD2	2.41	0.56
53:s7:20:VAL:O	53:s7:24:PHE:N	2.38	0.56
58:c2:103:LEU:HD23	58:c2:115:VAL:HG12	1.88	0.56
67:d1:71:ARG:HG3	67:d1:83:TRP:CE2	2.40	0.56
71:d5:43:ASP:C	71:d5:45:GLU:H	2.14	0.56
1:1:1069:C:H2'	1:1:1070:U:H6	1.69	0.56
1:1:1641:U:O2'	1:1:1643:A:OP2	2.23	0.56
1:1:2111:G:H1'	25:N4:44:LYS:HE3	1.88	0.56
3:4:30:C:H2'	3:4:31:G:C8	2.41	0.56
11:L9:43:VAL:HG12	11:L9:57:VAL:CG2	2.35	0.56
11:L9:90:MET:HE2	11:L9:179:ILE:HG22	1.87	0.56
13:M1:98:ALA:HA	13:M1:156:LYS:HB2	1.87	0.56
18:M7:4:TYR:CE1	18:M7:16:SER:HB2	2.40	0.56
18:M7:59:PRO:HG3	18:M7:76:PHE:CD1	2.40	0.56
20:M9:172:ARG:HD3	45:2:852:C:OP1	2.06	0.56
45:2:332:U:OP2	54:S8:175:GLN:NE2	2.39	0.56
45:2:702:G:O6	45:2:737:A:N6	2.39	0.56
45:2:814:A:O2'	45:2:816:G:OP2	2.23	0.56
45:2:1060:U:H3'	45:2:1061:A:H5''	1.88	0.56
68:D2:6:VAL:HG13	68:D2:29:PRO:HD2	1.88	0.56
69:D3:92:CYS:HA	69:D3:95:PHE:HD2	1.71	0.56
1:5:365:A:H1'	6:l4:82:THR:OG1	2.06	0.56
1:5:900:G:H1'	1:5:1589:A:H61	1.68	0.56
1:5:2444:C:H4'	1:5:2444:C:OP1	2.05	0.56
1:5:3276:G:H4'	1:5:3277:U:OP2	2.05	0.56
6:l4:38:VAL:O	6:l4:42:VAL:HG23	2.05	0.56
13:m1:22:SER:HA	13:m1:66:ALA:HB1	1.87	0.56
45:6:67:A:H2'	45:6:69:G:H5''	1.87	0.56
45:6:235:G:H2'	45:6:236:A:C8	2.34	0.56
45:6:885:G:H21	60:c4:123:SER:HB2	1.71	0.56
45:6:1275:A:O2'	49:s3:141:LYS:HE2	2.06	0.56
1:1:617:G:H2'	1:1:618:C:H6	1.70	0.56
1:1:1460:A:H5'	32:O1:51:LEU:O	2.06	0.56
1:1:2902:A:OP1	11:L9:170:LYS:NZ	2.39	0.56
3:4:97:A:OP1	36:O5:63:ARG:NH2	2.38	0.56
4:L2:35:ALA:HA	10:L8:36:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L9:92:TYR:N	11:L9:92:TYR:CD1	2.74	0.56
42:Q1:15:ARG:NH2	87:Q1:201:HOH:O	2.31	0.56
45:2:448:C:H5'	50:S4:29:PRO:HG3	1.88	0.56
45:2:1383:G:OP1	66:D0:87:HIS:ND1	2.39	0.56
45:2:1474:G:P	51:S5:109:LYS:HE2	2.45	0.56
45:2:1575:G:H2'	45:2:1576:A:C8	2.41	0.56
49:S3:40:ARG:HG2	66:D0:110:PRO:HB3	1.88	0.56
49:S3:137:VAL:HG22	49:S3:151:LYS:HD3	1.87	0.56
50:S4:11:ARG:NH1	50:S4:21:ASP:OD2	2.39	0.56
50:S4:151:ASP:HB3	50:S4:154:ILE:HG13	1.88	0.56
53:S7:63:PRO:O	53:S7:64:VAL:HG12	2.06	0.56
62:C6:29:ILE:HG12	62:C6:65:ILE:HB	1.88	0.56
65:C9:105:LEU:HD13	65:C9:122:ARG:HD3	1.88	0.56
78:SR:93:ASP:OD2	78:SR:100:TYR:OH	2.14	0.56
78:SR:248:ASN:ND2	78:SR:297:ASP:O	2.38	0.56
1:5:407:A:C2	3:8:17:A:H1'	2.40	0.56
1:5:945:C:H2'	1:5:946:U:H6	1.70	0.56
1:5:1750:A:H4'	1:5:1751:G:H5'	1.87	0.56
1:5:2282:U:O2	1:5:2310:U:H4'	2.05	0.56
1:5:2592:G:H4'	1:5:2594:C:C2	2.41	0.56
2:7:22:A:H1'	7:l5:272:TYR:CZ	2.41	0.56
2:7:96:U:H4'	21:n0:119:ARG:HB2	1.88	0.56
4:l2:10:LYS:HA	4:l2:16:PHE:CD2	2.40	0.56
9:l7:219:LYS:O	9:l7:228:SER:HB2	2.05	0.56
12:m0:150:GLU:O	12:m0:154:ARG:N	2.29	0.56
14:m3:166:ALA:HB1	29:n8:147:LEU:HD21	1.88	0.56
31:o0:76:GLU:H	31:o0:76:GLU:CD	2.14	0.56
38:o7:8:PHE:O	38:o7:11:ARG:HD3	2.06	0.56
45:6:228:G:H1	45:6:236:A:N6	2.03	0.56
45:6:538:A:C8	45:6:543:C:N4	2.74	0.56
49:s3:7:LYS:HE3	66:d0:27:THR:HG21	1.88	0.56
50:s4:18:TRP:HH2	50:s4:31:PRO:HD3	1.70	0.56
3:4:151:C:C5	26:N5:24:LEU:HD11	2.40	0.56
4:L2:30:ARG:NH2	4:L2:33:ASP:OD2	2.39	0.56
5:L3:227:GLU:HG2	5:L3:270:ARG:HD3	1.88	0.56
9:L7:110:ARG:HB3	19:M8:3:ILE:HG22	1.87	0.56
11:L9:120:ASP:OD1	11:L9:124:ARG:NH2	2.38	0.56
16:M5:84:PRO:HA	16:M5:87:GLN:HG3	1.88	0.56
42:Q1:9:ARG:HB2	42:Q1:9:ARG:HH11	1.71	0.56
45:2:1609:U:OP2	62:C6:14:LYS:NZ	2.39	0.56
52:S6:5:ILE:HD13	52:S6:50:PHE:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:S6:51:LYS:HB3	52:S6:112:VAL:HG23	1.87	0.56
60:C4:81:VAL:H	60:C4:115:ILE:HG22	1.71	0.56
72:D6:87:ARG:NH2	72:D6:91:ASP:O	2.39	0.56
1:5:155:G:H1'	37:o6:26:ILE:CD1	2.34	0.56
1:5:3027:A:H2'	1:5:3028:G:O4'	2.05	0.56
1:5:3272:C:H5'	8:l6:78:ARG:HB2	1.88	0.56
2:7:113:C:H2'	2:7:114:U:O4'	2.05	0.56
5:l3:68:HIS:CD2	5:l3:69:LYS:HG3	2.41	0.56
16:m5:96:ARG:HG2	16:m5:96:ARG:HH11	1.71	0.56
17:m6:3:VAL:HG13	17:m6:4:GLU:H	1.71	0.56
24:n3:28:ASN:HD21	24:n3:113:ALA:N	2.04	0.56
28:n7:51:LEU:HB2	28:n7:65:ARG:HH11	1.71	0.56
30:n9:58:LYS:HE2	30:n9:58:LYS:HA	1.89	0.56
43:q2:70:LEU:N	43:q2:83:LEU:O	2.37	0.56
45:6:239:C:N4	45:6:835:U:OP1	2.39	0.56
45:6:241:U:H5''	52:s6:216:LEU:HD11	1.88	0.56
45:6:639:U:H5''	53:s7:101:LYS:HB2	1.87	0.56
45:6:1479:A:OP1	65:c9:57:ARG:NH1	2.39	0.56
76:e0:44:PHE:HD2	76:e0:54:ARG:HH22	1.53	0.56
1:1:1119:C:H2'	1:1:1120:A:H8	1.69	0.55
1:1:2697:A:H2'	1:1:2698:G:C8	2.42	0.55
1:1:3111:U:H5'	11:L9:155:SER:OG	2.07	0.55
1:1:3154:C:H6	1:1:3157:U:H3	1.52	0.55
5:L3:208:VAL:HG12	5:L3:340:LYS:HD3	1.88	0.55
5:L3:308:MET:HB2	5:L3:363:SER:HB2	1.89	0.55
6:L4:23:PRO:O	6:L4:25:VAL:N	2.36	0.55
6:L4:170:LYS:HE2	6:L4:175:HIS:ND1	2.21	0.55
6:L4:177:ASP:OD1	6:L4:180:LYS:HE3	2.06	0.55
14:M3:135:ALA:O	14:M3:136:GLU:HG3	2.07	0.55
26:N5:88:MET:HA	26:N5:120:LYS:HE3	1.88	0.55
28:N7:60:LYS:HA	28:N7:63:ALA:HB3	1.87	0.55
29:N8:47:LYS:HE2	29:N8:48:TYR:CE2	2.41	0.55
45:2:199:G:HO2'	45:2:200:A:H8	1.54	0.55
45:2:1202:A:H2'	45:2:1203:A:H5''	1.88	0.55
45:2:1354:G:H5'	45:2:1355:C:OP2	2.06	0.55
45:2:1553:G:N2	45:2:1555:A:H3'	2.21	0.55
46:S0:171:GLY:HA2	46:S0:174:TRP:HB2	1.87	0.55
51:S5:38:THR:HG22	62:C6:56:GLY:HA2	1.88	0.55
53:S7:81:LEU:HD12	53:S7:90:VAL:HG11	1.86	0.55
62:C6:73:GLY:H	62:C6:76:SER:HB3	1.70	0.55
64:C8:67:GLU:OE2	79:SM:9:GLY:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:C8:69:ILE:HG22	64:C8:73:MET:HE2	1.87	0.55
71:D5:43:ASP:HB2	71:D5:46:LYS:HE3	1.87	0.55
78:SR:171:SER:OG	78:SR:181:TRP:NE1	2.36	0.55
1:5:3165:A:H61	1:5:3285:C:H42	1.53	0.55
8:l6:154:LEU:HA	8:l6:157:GLN:OE1	2.06	0.55
18:m7:64:ASN:HB2	18:m7:80:LYS:HE3	1.87	0.55
33:o2:32:TRP:CZ2	33:o2:53:PRO:HD2	2.41	0.55
36:o5:86:ARG:O	36:o5:90:ARG:HG2	2.05	0.55
82:p0:37:GLN:HE22	82:p0:184:GLY:HA2	1.71	0.55
43:q2:8:ARG:HB2	43:q2:8:ARG:HH11	1.71	0.55
45:6:1524:A:OP2	87:6:2206:HOH:O	2.17	0.55
64:c8:127:HIS:CE1	64:c8:133:VAL:HG21	2.41	0.55
1:1:625:G:N2	1:1:1401:A:OP1	2.38	0.55
1:1:1556:C:H5''	1:1:2169:G:H22	1.70	0.55
1:1:1614:C:H2'	1:1:1615:C:C6	2.41	0.55
1:1:1794:G:H4'	4:L2:191:LEU:HD13	1.88	0.55
1:1:2993:G:H2'	1:1:3142:A:H61	1.71	0.55
3:4:89:A:H61	85:4:224:LLL:H211	1.53	0.55
3:4:135:G:OP2	26:N5:56:ARG:NH2	2.38	0.55
5:L3:25:ILE:HG23	5:L3:272:TYR:OH	2.06	0.55
7:L5:58:LYS:HD2	7:L5:93:THR:HG21	1.88	0.55
8:L6:137:ASP:O	8:L6:141:VAL:HG23	2.06	0.55
23:N2:58:GLU:HG3	23:N2:58:GLU:O	2.06	0.55
39:O8:71:PRO:O	39:O8:72:THR:OG1	2.24	0.55
43:Q2:35:LEU:HD23	43:Q2:35:LEU:H	1.72	0.55
45:2:1:U:C4	55:S9:54:ARG:HG3	2.41	0.55
45:2:871:G:H2'	45:2:872:G:C8	2.41	0.55
45:2:909:U:H2'	45:2:910:C:H6	1.70	0.55
45:2:1458:G:H5''	45:2:1459:C:OP2	2.06	0.55
48:S2:187:LEU:HD21	48:S2:218:ILE:HD11	1.88	0.55
53:S7:133:THR:HG22	53:S7:155:ASP:CB	2.37	0.55
54:S8:147:ALA:C	54:S8:149:SER:N	2.64	0.55
58:C2:60:VAL:HG23	58:C2:87:PRO:HG2	1.89	0.55
1:5:341:G:N7	6:l4:195:ARG:NH2	2.52	0.55
1:5:650:C:H2'	1:5:651:G:C8	2.41	0.55
1:5:2611:U:H2'	1:5:2612:U:C6	2.42	0.55
2:7:119:U:H2'	2:7:120:C:C6	2.42	0.55
6:l4:20:LEU:HD13	6:l4:256:THR:HG23	1.89	0.55
11:l9:1:MET:HE2	11:l9:3:TYR:CD1	2.41	0.55
13:m1:15:GLU:HG2	13:m1:16:LYS:HG2	1.88	0.55
17:m6:180:SER:O	17:m6:183:ALA:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:m8:86:THR:HG22	19:m8:105:ARG:HG3	1.88	0.55
45:6:73:U:O2'	45:6:74:U:O5'	2.24	0.55
45:6:404:G:H2'	45:6:405:C:H6	1.71	0.55
45:6:950:C:H4'	59:c3:104:ARG:HH21	1.71	0.55
50:s4:87:MET:HE3	50:s4:226:PHE:HE1	1.71	0.55
77:e1:92:LYS:HD2	77:e1:94:LYS:HE2	1.88	0.55
78:sR:122:ILE:HB	78:sR:134:TRP:HB2	1.88	0.55
1:1:501:A:H2'	1:1:502:U:H6	1.69	0.55
1:1:1103:A:H1'	1:1:1104:G:OP1	2.07	0.55
1:1:2521:U:H2'	1:1:2522:G:H5'	1.87	0.55
1:1:2572:C:O2'	1:1:2573:G:O4'	2.24	0.55
1:1:2830:G:N7	87:1:4200:HOH:O	2.33	0.55
7:L5:120:LYS:O	7:L5:248:ARG:NH2	2.39	0.55
8:L6:89:THR:HG21	15:M4:115:PHE:HB2	1.88	0.55
16:M5:39:ALA:HB3	16:M5:61:ILE:HG22	1.86	0.55
29:N8:6:THR:HG22	29:N8:9:ARG:HG2	1.89	0.55
34:O3:29:LEU:HD22	34:O3:75:HIS:CD2	2.42	0.55
38:O7:8:PHE:O	38:O7:11:ARG:HG3	2.06	0.55
38:O7:64:MET:HB2	38:O7:68:LYS:HG3	1.88	0.55
45:2:194:U:O2'	45:2:195:G:H4'	2.06	0.55
47:S1:61:LEU:C	47:S1:63:GLY:H	2.14	0.55
49:S3:113:LEU:HD21	49:S3:117:ARG:HH11	1.71	0.55
53:S7:117:THR:HG22	53:S7:120:ALA:HB2	1.87	0.55
55:S9:100:LYS:HG3	55:S9:101:VAL:N	2.21	0.55
56:C0:60:SER:O	56:C0:61:TRP:HB2	2.05	0.55
58:C2:45:LEU:O	58:C2:49:THR:HG23	2.07	0.55
64:C8:62:THR:N	64:C8:65:GLU:OE1	2.39	0.55
1:5:1384:U:H5'	6:l4:138:ARG:HH12	1.70	0.55
1:5:2768:U:H2'	1:5:2769:A:C8	2.41	0.55
8:l6:176:PHE:HA	15:m4:114:ASP:HB2	1.88	0.55
19:m8:44:PHE:CD2	19:m8:134:GLY:HA3	2.42	0.55
28:n7:38:PHE:O	28:n7:40:HIS:ND1	2.32	0.55
44:q3:73:THR:HG22	44:q3:75:ALA:N	2.20	0.55
45:6:530:C:O2	70:d4:61:ARG:NH2	2.40	0.55
45:6:1159:C:N4	45:6:1285:U:OP1	2.39	0.55
45:6:1214:U:O2	75:d9:7:TRP:HZ3	1.89	0.55
45:6:1459:C:H2'	64:c8:138:THR:HB	1.89	0.55
45:6:1590:G:OP1	65:c9:91:TYR:HB2	2.07	0.55
46:s0:33:GLN:HG3	46:s0:149:LEU:O	2.06	0.55
56:c0:16:PHE:HB2	56:c0:76:LEU:HG	1.89	0.55
63:c7:104:ASN:C	63:c7:106:THR:N	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1098:A:O2'	22:N1:130:ARG:O	2.21	0.55
1:1:2946:A:N6	87:1:4190:HOH:O	2.30	0.55
6:L4:285:ASP:OD2	6:L4:288:ARG:HB2	2.05	0.55
11:L9:4:ILE:HG23	21:N0:142:GLN:CD	2.31	0.55
11:L9:126:VAL:HG21	11:L9:161:LEU:HA	1.88	0.55
37:O6:53:TYR:CD1	37:O6:76:ARG:HG2	2.41	0.55
62:C6:13:LYS:HG3	62:C6:79:TYR:HB2	1.88	0.55
72:D6:24:VAL:HG11	72:D6:71:LEU:HD12	1.88	0.55
1:5:1388:U:O4	6:l4:186:LYS:HE2	2.06	0.55
1:5:1632:A:H2'	1:5:1633:C:H6	1.70	0.55
1:5:2760:C:N4	1:5:2796:G:O6	2.39	0.55
1:5:2916:U:O2	87:5:4271:HOH:O	2.15	0.55
6:l4:3:ARG:HB3	6:l4:22:LEU:H	1.71	0.55
6:l4:120:TYR:O	6:l4:120:TYR:HD1	1.89	0.55
8:l6:40:LEU:HD13	8:l6:84:VAL:HG11	1.88	0.55
12:m0:49:CYS:O	12:m0:168:SER:HB3	2.06	0.55
12:m0:113:GLN:HG2	12:m0:114:GLY:H	1.71	0.55
28:n7:3:LYS:HD2	28:n7:4:PHE:O	2.07	0.55
82:p0:40:GLU:HA	82:p0:43:LYS:HE3	1.89	0.55
43:q2:59:HIS:O	43:q2:61:LYS:HE3	2.06	0.55
45:6:511:A:H5'	55:s9:173:ALA:HB2	1.89	0.55
45:6:992:A:OP2	45:6:1011:G:N1	2.31	0.55
45:6:1533:C:H4'	45:6:1539:G:C6	2.41	0.55
45:6:1565:C:OP1	64:c8:41:ARG:HD3	2.06	0.55
46:s0:6:THR:O	46:s0:191:ARG:NH1	2.39	0.55
46:s0:31:VAL:HA	46:s0:34:GLU:HG3	1.87	0.55
55:s9:37:LYS:HA	76:e0:33:ARG:HB2	1.89	0.55
60:c4:88:GLY:O	60:c4:92:LYS:NZ	2.39	0.55
66:d0:76:SER:O	66:d0:78:THR:HG23	2.06	0.55
68:d2:24:GLN:HE22	73:d7:4:VAL:HA	1.71	0.55
77:e1:98:VAL:HG12	77:e1:99:LYS:H	1.70	0.55
77:e1:121:CYS:HB2	77:e1:132:LEU:HD21	1.89	0.55
1:1:1472:U:H2'	1:1:1473:G:C8	2.41	0.55
1:1:1580:A:H1'	1:1:1581:C:C5	2.42	0.55
1:1:1621:A:H61	1:1:1823:A:H61	1.53	0.55
1:1:1940:G:N2	1:1:3362:A:H8	2.04	0.55
1:1:2763:U:H5'	19:M8:176:ARG:HG3	1.88	0.55
4:L2:48:ILE:HG22	4:L2:59:ALA:HA	1.88	0.55
13:M1:133:ARG:HB2	13:M1:152:HIS:NE2	2.21	0.55
14:M3:35:ARG:O	14:M3:39:ARG:HG3	2.06	0.55
14:M3:75:PHE:O	14:M3:76:THR:HG22	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:M7:127:ARG:HB2	18:M7:127:ARG:HH11	1.72	0.55
20:M9:132:PHE:HE1	20:M9:141:HIS:HD1	1.54	0.55
28:N7:89:VAL:HG13	28:N7:90:GLU:H	1.72	0.55
38:O7:12:HIS:ND1	38:O7:12:HIS:O	2.40	0.55
45:2:1291:G:N2	45:2:1324:G:H1	1.96	0.55
65:C9:117:SER:HB2	65:C9:123:ARG:HB2	1.86	0.55
72:D6:87:ARG:HB2	72:D6:92:ARG:HG2	1.89	0.55
75:D9:6:VAL:O	75:D9:7:TRP:HE3	1.89	0.55
77:E1:140:TYR:HB2	77:E1:149:LYS:HB2	1.88	0.55
1:5:800:G:OP1	1:5:801:A:N6	2.35	0.55
1:5:1080:A:H2'	1:5:1081:U:H5''	1.89	0.55
1:5:2524:A:N6	10:l8:42:PRO:O	2.39	0.55
24:n3:101:VAL:HG11	24:n3:114:ILE:HG12	1.89	0.55
32:o1:46:THR:HG21	32:o1:91:SER:OG	2.06	0.55
82:p0:189:GLN:OE1	82:p0:196:VAL:HG22	2.06	0.55
45:6:1402:G:OP1	63:c7:4:VAL:HA	2.06	0.55
45:6:1420:C:O2'	49:s3:160:SER:O	2.17	0.55
45:6:1492:A:O2'	45:6:1493:A:C8	2.59	0.55
55:s9:108:ARG:HB2	55:s9:111:THR:HG23	1.89	0.55
57:c1:82:ARG:HH21	57:c1:113:PRO:HG2	1.72	0.55
60:c4:60:ALA:HB1	60:c4:101:ALA:HB2	1.88	0.55
65:c9:70:GLN:OE1	65:c9:70:GLN:N	2.40	0.55
74:d8:13:ILE:HB	74:d8:29:ARG:HG2	1.87	0.55
77:e1:120:GLU:N	77:e1:120:GLU:OE2	2.39	0.55
1:1:249:U:O2	1:1:250:U:N3	2.36	0.55
1:1:422:A:C2	1:1:2363:A:H4'	2.42	0.55
1:1:528:U:H2'	1:1:529:A:C8	2.41	0.55
1:1:802:C:H2'	1:1:803:C:H6	1.71	0.55
1:1:1064:A:H4'	1:1:1065:A:O5'	2.06	0.55
1:1:1763:U:OP2	1:1:1765:U:N3	2.39	0.55
12:M0:93:PRO:O	12:M0:125:LEU:HD23	2.06	0.55
45:2:912:U:H4'	45:2:913:G:H2'	1.89	0.55
50:S4:55:ALA:HB2	50:S4:64:ILE:HD12	1.89	0.55
78:SR:42:LEU:HD21	78:SR:82:SER:HB3	1.88	0.55
1:5:179:C:H2'	1:5:180:C:C6	2.41	0.55
14:m3:133:PRO:O	14:m3:134:GLU:HG3	2.07	0.55
15:m4:37:GLU:HB3	21:n0:72:VAL:HG21	1.87	0.55
33:o2:20:HIS:CG	33:o2:42:VAL:HG21	2.42	0.55
36:o5:103:LYS:O	36:o5:107:LYS:HD3	2.06	0.55
45:6:523:G:H5'	70:d4:60:PHE:O	2.06	0.55
45:6:789:A:H4'	50:s4:106:LYS:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s2:45:VAL:HG21	48:s2:68:ILE:HG23	1.88	0.55
78:sR:40:LYS:HB3	78:sR:64:HIS:O	2.07	0.55
1:1:29:C:H4'	1:1:62:A:H4'	1.88	0.55
1:1:367:A:O3'	85:1:3991:LLL:N21	2.40	0.55
1:1:975:C:H2'	1:1:976:U:H6	1.72	0.55
1:1:3337:G:H2'	1:1:3338:C:O4'	2.05	0.55
6:L4:23:PRO:O	6:L4:25:VAL:HG23	2.07	0.55
9:L7:84:VAL:HG21	9:L7:136:TYR:HD2	1.70	0.55
11:L9:128:VAL:HG22	11:L9:134:ILE:HD11	1.88	0.55
21:N0:25:PHE:HD1	22:N1:151:LEU:HD21	1.70	0.55
24:N3:87:ARG:NH1	87:N3:303:HOH:O	2.36	0.55
38:O7:14:LYS:HE2	38:O7:25:ARG:HH21	1.71	0.55
45:2:36:C:H2'	45:2:37:U:C6	2.41	0.55
45:2:688:G:H2'	45:2:689:G:C8	2.42	0.55
45:2:1755:A:H2'	45:2:1755:A:N3	2.21	0.55
1:5:271:C:O2	37:o6:82:ARG:NH2	2.40	0.55
1:5:589:A:H1'	1:5:1337:A:H5''	1.88	0.55
1:5:619:A:H4'	1:5:620:U:OP1	2.07	0.55
1:5:2897:A:H2'	1:5:2899:C:H5''	1.88	0.55
85:5:4172:LLL:H11	85:5:4172:LLL:H322	1.72	0.55
3:8:156:U:H3'	3:8:157:U:H5''	1.89	0.55
5:l3:169:THR:HG23	5:l3:171:LEU:H	1.71	0.55
85:l3:412:LLL:H832	85:l3:412:LLL:H933	1.89	0.55
10:l8:91:PHE:CZ	10:l8:185:ARG:HB3	2.41	0.55
22:n1:100:LYS:HA	22:n1:103:GLN:HB3	1.88	0.55
45:6:399:A:N3	50:s4:3:ARG:NH1	2.54	0.55
45:6:891:A:H2'	45:6:892:A:C8	2.42	0.55
45:6:901:G:H22	60:c4:54:GLU:CD	2.14	0.55
45:6:1673:G:H8	45:6:1673:G:O5'	1.89	0.55
47:s1:148:ASN:HD22	47:s1:148:ASN:H	1.54	0.55
48:s2:139:ILE:HD12	48:s2:191:ALA:HB1	1.88	0.55
52:s6:12:SER:OG	52:s6:124:LEU:HA	2.06	0.55
52:s6:163:THR:HG22	52:s6:168:THR:HG22	1.89	0.55
68:d2:8:ALA:CB	68:d2:74:VAL:HG11	2.35	0.55
74:d8:10:ALA:HB1	74:d8:30:VAL:HB	1.88	0.55
77:e1:123:ASN:HB3	77:e1:126:CYS:HB2	1.87	0.55
79:sM:42:ALA:O	79:sM:43:ASP:HB3	2.06	0.55
1:1:86:G:OP2	85:1:3992:LLL:N32	2.39	0.55
1:1:735:A:H2'	1:1:736:A:C8	2.42	0.55
1:1:1334:U:H5'	9:L7:207:LEU:O	2.07	0.55
1:1:1594:A:H1'	1:1:1615:C:H1'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2396:G:N7	87:1:4190:HOH:O	2.33	0.55
9:L7:98:LYS:HB3	9:L7:99:PRO:HD3	1.88	0.55
11:L9:1:MET:HE2	11:L9:3:TYR:CD1	2.42	0.55
11:L9:48:VAL:HG13	11:L9:49:ASN:H	1.71	0.55
11:L9:72:LYS:NZ	11:L9:76:ASP:OD2	2.39	0.55
31:O0:26:GLY:O	31:O0:30:THR:HG23	2.06	0.55
45:2:1032:G:OP1	85:2:2043:LLL:H832	2.07	0.55
46:S0:57:LEU:HD11	46:S0:173:ILE:HG23	1.89	0.55
51:S5:25:LEU:HB2	62:C6:27:GLY:HA3	1.89	0.55
52:S6:98:ARG:NH2	52:S6:101:ILE:O	2.40	0.55
60:C4:69:ALA:O	60:C4:73:GLU:N	2.36	0.55
1:5:1603:A:P	20:m9:38:ARG:HH21	2.29	0.55
1:5:1844:C:O2	38:o7:9:GLY:HA2	2.07	0.55
1:5:2880:U:H1'	5:l3:250:ALA:CB	2.35	0.55
85:5:4168:LLL:H832	14:m3:182:ILE:HD11	1.89	0.55
5:l3:290:ASP:OD2	5:l3:291:GLU:N	2.40	0.55
7:l5:132:THR:HG21	7:l5:170:GLY:HA2	1.89	0.55
80:m2:61:UNK:HA	80:m2:74:UNK:HA	1.89	0.55
23:n2:35:LYS:HA	23:n2:38:ILE:HD12	1.89	0.55
82:p0:42:ARG:HB3	82:p0:46:ARG:HH21	1.72	0.55
45:6:538:A:O2'	45:6:539:G:N7	2.40	0.55
63:c7:50:ILE:O	63:c7:54:THR:HG22	2.06	0.55
64:c8:6:GLN:O	64:c8:7:GLU:HG2	2.07	0.55
64:c8:125:ILE:HD11	79:sM:57:ASN:HB3	1.87	0.55
75:d9:21:CYS:HB2	75:d9:39:CYS:HB3	1.89	0.55
1:1:824:C:H2'	1:1:825:U:H6	1.71	0.55
1:1:1895:A:O2'	1:1:3053:G:H4'	2.07	0.55
1:1:3227:A:O2'	15:M4:133:LYS:HD3	2.07	0.55
3:4:84:C:O3'	27:N6:113:LYS:NZ	2.38	0.55
6:L4:3:ARG:NH2	6:L4:259:ASP:OD2	2.32	0.55
45:2:17:C:O2'	45:2:1137:A:N1	2.31	0.55
45:2:339:C:H2'	45:2:340:U:H6	1.71	0.55
45:2:340:U:H2'	45:2:341:A:H8	1.72	0.55
45:2:1100:G:O2'	68:D2:76:SER:N	2.39	0.55
45:2:1756:A:OP1	45:2:1756:A:N1	2.40	0.55
47:S1:109:LYS:HG3	47:S1:113:MET:HE3	1.87	0.55
51:S5:116:HIS:NE2	71:D5:95:HIS:CE1	2.73	0.55
57:C1:33:ARG:NH2	57:C1:51:GLY:O	2.40	0.55
57:C1:101:GLU:OE2	69:D3:16:ARG:NH2	2.39	0.55
58:C2:71:ILE:O	58:C2:75:VAL:HG23	2.07	0.55
60:C4:99:GLN:NE2	72:D6:46:GLU:OE1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:435:C:H2'	1:5:436:A:O4'	2.07	0.55
1:5:744:A:H4'	19:m8:142:GLY:O	2.06	0.55
1:5:861:C:H2'	1:5:862:U:C6	2.42	0.55
1:5:2100:A:H1'	20:m9:71:ARG:NE	2.22	0.55
1:5:2115:G:O2'	20:m9:82:LYS:NZ	2.39	0.55
7:l5:57:ASN:O	7:l5:93:THR:HG21	2.06	0.55
10:l8:34:PHE:CD2	10:l8:42:PRO:HD3	2.42	0.55
82:p0:15:LEU:HD11	82:p0:59:VAL:HG22	1.88	0.55
41:q0:114:LYS:HG2	41:q0:115:CYS:N	2.22	0.55
50:s4:151:ASP:HB3	50:s4:154:ILE:HG13	1.88	0.55
56:c0:21:VAL:HB	56:c0:66:TYR:HB2	1.89	0.55
60:c4:42:VAL:HG13	60:c4:63:ALA:HB1	1.89	0.55
62:c6:31:VAL:HG22	62:c6:67:VAL:HB	1.88	0.55
70:d4:39:GLU:O	70:d4:42:GLU:N	2.39	0.55
1:1:595:G:H2'	1:1:596:C:C6	2.42	0.55
1:1:664:U:H2'	1:1:665:A:C8	2.42	0.55
1:1:1155:C:H1'	1:1:1198:C:O2	2.05	0.55
1:1:3190:C:OP1	17:M6:168:TYR:OH	2.16	0.55
10:L8:63:LYS:HG2	10:L8:64:ILE:N	2.21	0.55
12:M0:80:SER:O	12:M0:84:ALA:HB2	2.06	0.55
20:M9:126:GLU:HB3	20:M9:132:PHE:CE2	2.42	0.55
22:N1:35:LYS:N	22:N1:38:ASP:OD2	2.34	0.55
29:N8:94:ALA:HB1	29:N8:122:PRO:HD3	1.89	0.55
31:O0:9:SER:N	31:O0:12:GLN:OE1	2.39	0.55
45:2:224:C:H2'	45:2:225:A:C8	2.43	0.55
45:2:542:A:H5''	45:2:544:A:C8	2.41	0.55
45:2:932:U:O2	72:D6:32:LYS:NZ	2.27	0.55
53:S7:165:LYS:O	53:S7:168:SER:OG	2.18	0.55
61:C5:130:ARG:HH12	79:SM:71:ASN:HA	1.72	0.55
1:5:196:G:N1	1:5:199:A:OP2	2.40	0.55
1:5:1001:G:N7	85:5:4152:LLL:O23	2.40	0.55
1:5:2213:A:H2'	1:5:2214:A:C8	2.42	0.55
85:8:221:LLL:N12	85:8:221:LLL:H13	2.22	0.55
5:l3:166:ILE:O	5:l3:169:THR:HG22	2.07	0.55
17:m6:174:PHE:O	17:m6:178:VAL:HG23	2.06	0.55
22:n1:91:LEU:HD12	22:n1:96:ILE:HD11	1.89	0.55
37:o6:98:ARG:HG3	37:o6:99:ARG:H	1.72	0.55
45:6:628:G:OP1	59:c3:124:ARG:NH1	2.39	0.55
45:6:651:G:N2	45:6:652:G:H1'	2.22	0.55
45:6:677:G:H21	45:6:678:A:H62	1.55	0.55
45:6:919:A:H2'	45:6:920:U:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1380:U:OP1	62:c6:12:LYS:NZ	2.39	0.55
50:s4:35:PRO:HD2	50:s4:83:PRO:HG2	1.89	0.55
50:s4:160:VAL:HG13	50:s4:169:ILE:HG23	1.89	0.55
54:s8:4:SER:OG	54:s8:6:ASP:OD2	2.20	0.55
60:c4:103:ARG:HH12	72:d6:48:ALA:HB3	1.72	0.55
61:c5:51:SER:CB	61:c5:53:PRO:HD3	2.37	0.55
79:sM:43:ASP:OD2	79:sM:45:SER:N	2.38	0.55
1:1:3151:U:H4'	1:1:3294:A:H1'	1.89	0.54
2:3:26:C:H5'	7:L5:56:THR:HB	1.88	0.54
4:L2:144:ASN:HB2	4:L2:160:SER:HB2	1.89	0.54
6:L4:203:ARG:NH2	6:L4:240:PRO:HB3	2.22	0.54
43:Q2:6:LYS:HE3	43:Q2:94:GLY:HA2	1.89	0.54
45:2:588:U:H2'	45:2:589:C:C6	2.41	0.54
45:2:940:A:H2'	45:2:941:A:H8	1.72	0.54
46:S0:50:VAL:O	46:S0:54:TRP:N	2.39	0.54
46:S0:74:VAL:HG23	46:S0:118:PRO:HB3	1.89	0.54
53:S7:74:GLN:O	53:S7:77:LEU:N	2.40	0.54
63:C7:19:ARG:HG3	63:C7:20:TYR:HD1	1.72	0.54
1:5:251:G:C2	1:5:253:A:C6	2.95	0.54
1:5:897:U:H2'	1:5:898:U:C6	2.41	0.54
1:5:1556:C:C5'	1:5:2169:G:H22	2.20	0.54
1:5:1947:G:N2	1:5:2102:U:O2	2.40	0.54
1:5:2572:C:H2'	1:5:2572:C:OP2	2.07	0.54
1:5:2881:C:H2'	1:5:2882:U:H6	1.71	0.54
1:5:3343:G:H21	1:5:3362:A:H2	1.54	0.54
3:8:131:A:H5''	26:n5:93:TYR:CE2	2.42	0.54
12:m0:220:GLN:NE2	12:m0:220:GLN:H	2.05	0.54
13:m1:22:SER:HA	13:m1:66:ALA:CB	2.37	0.54
19:m8:16:ARG:NH2	19:m8:20:LYS:HB2	2.22	0.54
45:6:65:A:O3'	45:6:66:U:H3'	2.07	0.54
45:6:404:G:H2'	45:6:405:C:C6	2.42	0.54
45:6:570:A:H8	45:6:570:A:O5'	1.90	0.54
45:6:619:A:N3	45:6:1141:G:H1'	2.22	0.54
45:6:1280:C:H2'	45:6:1281:G:C8	2.42	0.54
45:6:1445:G:C8	77:e1:91:ILE:HD13	2.42	0.54
47:s1:35:PRO:HB3	47:s1:231:LEU:HD21	1.89	0.54
49:s3:116:ARG:NH1	79:sM:110:TRP:O	2.40	0.54
51:s5:43:PHE:HE2	51:s5:118:LEU:HD13	1.71	0.54
63:c7:88:VAL:CG1	63:c7:89:SER:H	2.12	0.54
68:d2:7:LEU:HD21	68:d2:37:PHE:HD2	1.72	0.54
1:1:353:G:N7	38:O7:55:ARG:HD3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2314:U:O2'	1:1:2315:G:OP1	2.25	0.54
1:1:2623:G:H1	1:1:2644:C:H42	1.54	0.54
1:1:2880:U:H1'	5:L3:250:ALA:HB3	1.88	0.54
1:1:3341:U:O2'	1:1:3342:A:O5'	2.22	0.54
8:L6:129:GLU:HG2	8:L6:130:ILE:HG13	1.88	0.54
16:M5:170:LYS:O	16:M5:173:GLY:N	2.36	0.54
20:M9:181:ARG:HD3	20:M9:182:ASP:N	2.22	0.54
21:N0:155:ARG:O	21:N0:170:THR:HA	2.07	0.54
24:N3:68:GLU:CD	24:N3:68:GLU:H	2.15	0.54
33:O2:103:LYS:O	33:O2:106:VAL:HG12	2.07	0.54
38:O7:27:PHE:HA	38:O7:34:CYS:HA	1.89	0.54
45:2:741:C:O2'	45:2:742:U:O4'	2.25	0.54
45:2:1533:C:H4'	45:2:1539:G:N1	2.22	0.54
45:2:1755:A:N3	45:2:1756:A:H5'	2.21	0.54
50:S4:97:GLU:OE1	50:S4:113:ARG:NE	2.39	0.54
72:D6:58:VAL:HG22	72:D6:59:TYR:H	1.72	0.54
78:SR:301:LEU:O	78:SR:312:VAL:HA	2.07	0.54
1:5:2096:A:O2'	1:5:2097:U:OP1	2.21	0.54
1:5:2117:A:N7	1:5:3064:U:O2'	2.35	0.54
1:5:2245:C:H4'	4:l2:221:LYS:O	2.07	0.54
1:5:2916:U:H1'	24:n3:44:SER:HB3	1.88	0.54
1:5:3285:C:H3'	1:5:3286:G:H5''	1.88	0.54
1:5:3295:A:H2'	1:5:3296:A:C8	2.42	0.54
2:7:64:A:H5'	2:7:65:G:H5''	1.89	0.54
19:m8:30:VAL:O	19:m8:34:THR:HG23	2.08	0.54
37:o6:51:SER:N	37:o6:54:GLU:OE1	2.36	0.54
45:6:68:A:H5'	52:s6:160:ARG:HH12	1.71	0.54
45:6:818:C:H42	45:6:853:G:H1	1.55	0.54
45:6:1220:C:H5'	56:c0:52:LYS:HE3	1.90	0.54
57:c1:36:LYS:HG2	57:c1:60:PHE:HA	1.89	0.54
58:c2:136:ILE:HA	58:c2:139:HIS:HB3	1.90	0.54
64:c8:56:LYS:HE2	64:c8:60:GLU:HB3	1.88	0.54
73:d7:2:VAL:O	73:d7:3:LEU:HB2	2.07	0.54
1:1:196:G:N2	1:1:198:A:H3'	2.21	0.54
1:1:1366:A:C2	1:1:1367:G:C4	2.96	0.54
1:1:1492:G:O3'	40:O9:48:LYS:NZ	2.41	0.54
1:1:1605:A:O2'	1:1:1607:U:OP2	2.23	0.54
1:1:2225:U:H2'	1:1:2226:U:C6	2.43	0.54
6:L4:203:ARG:HG2	6:L4:246:ARG:NH2	2.23	0.54
8:L6:131:LYS:HE3	8:L6:133:GLU:OE1	2.06	0.54
8:L6:170:LYS:HB2	8:L6:173:MET:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L9:76:ASP:O	11:L9:80:THR:HG23	2.07	0.54
13:M1:50:ALA:HB2	13:M1:65:ILE:HD13	1.89	0.54
19:M8:185:LYS:HD2	19:M8:186:VAL:HG23	1.90	0.54
22:N1:44:ALA:HB2	22:N1:53:PRO:HG2	1.89	0.54
33:O2:19:ARG:HE	33:O2:33:ARG:CG	2.20	0.54
45:2:187:G:O2'	45:2:199:G:N2	2.40	0.54
45:2:385:A:H5''	54:S8:25:ARG:HH22	1.72	0.54
45:2:1118:G:H2'	45:2:1119:G:H8	1.71	0.54
45:2:1513:G:H1'	45:2:1518:C:O2	2.07	0.54
50:S4:87:MET:SD	50:S4:123:LEU:HB2	2.48	0.54
78:SR:218:GLY:HA3	78:SR:237:GLN:O	2.07	0.54
1:5:58:G:OP1	16:m5:157:LYS:NZ	2.40	0.54
1:5:96:G:H5'	14:m3:15:ARG:NH2	2.22	0.54
1:5:361:A:O3'	38:o7:45:ARG:NH2	2.40	0.54
1:5:1528:G:H1	1:5:1832:C:H42	1.54	0.54
1:5:1861:G:H1'	1:5:3066:U:H5''	1.88	0.54
1:5:2115:G:H22	1:5:2120:A:H1'	1.71	0.54
4:l2:222:ALA:HB1	4:l2:224:THR:HG22	1.89	0.54
23:n2:54:VAL:HG13	23:n2:67:SER:HB2	1.89	0.54
31:o0:14:LEU:HD11	31:o0:43:ILE:HD13	1.90	0.54
45:6:653:C:N4	45:6:677:G:H1	2.05	0.54
45:6:813:U:H4'	45:6:814:A:OP2	2.07	0.54
45:6:1087:A:H2'	45:6:1088:A:H8	1.71	0.54
47:s1:37:THR:HG21	47:s1:185:THR:HB	1.89	0.54
47:s1:138:PHE:CD2	47:s1:214:LYS:HB3	2.42	0.54
49:s3:107:PHE:O	49:s3:111:ASN:HB2	2.07	0.54
50:s4:125:LYS:HB2	50:s4:226:PHE:CE2	2.42	0.54
50:s4:139:VAL:HG11	50:s4:169:ILE:HD11	1.89	0.54
52:s6:139:ASN:O	52:s6:143:LYS:HG2	2.07	0.54
53:s7:51:VAL:HG12	53:s7:53:GLY:H	1.71	0.54
64:c8:44:ASN:ND2	64:c8:48:LYS:HE2	2.23	0.54
68:d2:51:GLU:HB3	73:d7:8:LEU:HD21	1.89	0.54
76:e0:13:LYS:HE3	76:e0:17:GLN:NE2	2.23	0.54
78:sR:50:ASP:HB2	78:sR:53:LYS:O	2.07	0.54
1:1:241:G:H5'	1:1:241:G:H8	1.73	0.54
1:1:621:A:H1'	1:1:622:A:OP1	2.07	0.54
1:1:776:U:C5	1:1:2719:U:O2	2.59	0.54
1:1:2354:C:N4	87:1:4222:HOH:O	2.40	0.54
3:4:11:C:H1'	18:M7:6:ALA:HB2	1.89	0.54
3:4:38:U:O4	36:O5:89:ARG:HD2	2.08	0.54
6:L4:334:PHE:HA	6:L4:339:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:M5:119:TYR:OH	16:M5:131:GLU:OE1	2.16	0.54
18:M7:4:TYR:CZ	18:M7:18:ARG:HG3	2.43	0.54
40:O9:41:ARG:HG3	40:O9:42:ARG:H	1.72	0.54
45:2:338:C:H1'	54:S8:5:ARG:HB3	1.90	0.54
45:2:339:C:OP2	54:S8:10:LYS:NZ	2.37	0.54
45:2:909:U:H2'	45:2:910:C:C6	2.43	0.54
45:2:1681:A:H1'	52:S6:66:GLY:HA2	1.90	0.54
48:S2:152:HIS:CD2	48:S2:152:HIS:H	2.25	0.54
49:S3:192:PRO:HB2	49:S3:201:ALA:HA	1.89	0.54
50:S4:141:THR:OG1	50:S4:143:ASP:OD2	2.23	0.54
50:S4:181:VAL:HG21	50:S4:195:ILE:HD11	1.88	0.54
67:D1:64:GLU:O	67:D1:68:SER:HB2	2.08	0.54
68:D2:22:LYS:HD2	73:D7:3:LEU:HD23	1.90	0.54
69:D3:61:SER:HB2	69:D3:116:ASP:HB2	1.89	0.54
70:D4:129:VAL:HA	70:D4:132:ARG:HB2	1.89	0.54
1:5:595:G:H2'	1:5:596:C:H6	1.72	0.54
1:5:761:A:C2	1:5:771:A:H1'	2.42	0.54
1:5:1491:A:H5''	38:o7:14:LYS:HE3	1.88	0.54
1:5:1686:U:O2	1:5:1688:U:H1'	2.08	0.54
1:5:1691:U:H2'	1:5:1692:U:C6	2.43	0.54
1:5:3045:G:O3'	5:l3:275:ARG:NH1	2.40	0.54
13:m1:24:GLY:HA2	13:m1:65:ILE:HG23	1.90	0.54
15:m4:20:VAL:HG22	15:m4:68:LEU:HB2	1.89	0.54
19:m8:40:THR:OG1	19:m8:45:ASN:ND2	2.37	0.54
45:6:628:G:N1	45:6:970:A:OP2	2.32	0.54
47:s1:176:VAL:HG13	47:s1:184:LEU:HD21	1.88	0.54
53:s7:73:VAL:O	53:s7:75:THR:N	2.31	0.54
57:c1:21:ASN:ND2	57:c1:31:THR:HA	2.23	0.54
72:d6:46:GLU:HG2	72:d6:47:ALA:N	2.22	0.54
78:sR:307:ASP:OD1	78:sR:307:ASP:N	2.28	0.54
1:1:207:U:H2'	1:1:208:C:H6	1.73	0.54
1:1:863:C:OP2	87:1:4156:HOH:O	2.19	0.54
5:L3:166:ILE:O	5:L3:169:THR:HG22	2.07	0.54
9:L7:150:LYS:HE2	9:L7:151:ARG:NH1	2.23	0.54
11:L9:23:ARG:HH21	11:L9:42:ASP:H	1.54	0.54
12:M0:98:ARG:HB3	12:M0:120:GLY:HA3	1.88	0.54
12:M0:206:LEU:O	12:M0:210:ILE:HG13	2.08	0.54
45:2:297:U:H5''	50:S4:37:LYS:HG2	1.89	0.54
45:2:321:C:H4'	45:2:322:G:OP2	2.07	0.54
45:2:512:A:C8	55:S9:172:VAL:HG21	2.42	0.54
45:2:768:C:H1'	55:S9:143:ILE:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1465:C:OP1	62:C6:139:GLN:NE2	2.34	0.54
45:2:1587:A:OP1	62:C6:132:LYS:NZ	2.40	0.54
52:S6:72:ARG:HG2	52:S6:98:ARG:HA	1.88	0.54
52:S6:147:LEU:HB3	52:S6:151:ASP:HB2	1.88	0.54
55:S9:25:ASP:HB3	76:E0:44:PHE:HZ	1.73	0.54
63:C7:71:PHE:CE1	63:C7:73:LEU:HB3	2.43	0.54
78:SR:22:SER:HB2	78:SR:70:ASP:HA	1.89	0.54
78:SR:129:LYS:HD3	78:SR:148:ASN:O	2.08	0.54
79:SM:55:SER:O	79:SM:59:GLY:N	2.35	0.54
1:5:566:G:H2'	1:5:567:G:H8	1.73	0.54
1:5:1321:G:N2	21:n0:112:ALA:HB2	2.22	0.54
1:5:1393:A:N3	1:5:1419:A:O2'	2.34	0.54
1:5:1630:U:OP1	28:n7:67:LYS:NZ	2.26	0.54
1:5:1911:A:H2	1:5:2122:G:C8	2.25	0.54
1:5:3184:A:OP2	17:m6:12:LYS:NZ	2.39	0.54
3:8:82:U:H1'	3:8:87:G:H5'	1.88	0.54
3:8:138:A:N7	85:8:222:LLL:H222	2.23	0.54
12:m0:75:TYR:CE2	12:m0:79:VAL:HG21	2.43	0.54
12:m0:86:HIS:HB3	12:m0:139:ARG:CG	2.38	0.54
45:6:639:U:OP1	53:s7:118:LEU:N	2.41	0.54
45:6:1255:G:O2'	45:6:1256:A:O5'	2.22	0.54
45:6:1275:A:H8	45:6:1275:A:OP2	1.89	0.54
48:s2:73:LEU:HD21	48:s2:106:ASP:OD2	2.08	0.54
78:sR:161:ALA:C	78:sR:163:ASP:N	2.63	0.54
1:1:977:C:OP1	19:M8:141:ARG:NH2	2.41	0.54
1:1:1895:A:HO2'	1:1:3053:G:H4'	1.72	0.54
2:3:4:U:H2'	2:3:5:G:C8	2.41	0.54
5:L3:214:MET:HE2	5:L3:350:ALA:HB2	1.89	0.54
6:L4:354:VAL:O	6:L4:358:THR:HG23	2.07	0.54
9:L7:47:ARG:NH1	9:L7:183:ASP:OD2	2.40	0.54
16:M5:73:ARG:HE	16:M5:92:LEU:HD21	1.73	0.54
45:2:144:U:O2'	45:2:145:A:H5'	2.07	0.54
45:2:966:A:H2'	45:2:967:A:H8	1.73	0.54
45:2:1096:C:H5	85:2:2043:LLL:N32	2.06	0.54
45:2:1330:G:N1	49:S3:204:ASP:OD1	2.35	0.54
45:2:1535:U:H5''	51:S5:187:ILE:HD11	1.88	0.54
46:S0:101:ARG:HG3	46:S0:103:THR:H	1.73	0.54
56:C0:16:PHE:CE2	56:C0:82:LEU:HD11	2.42	0.54
1:5:1315:U:OP1	17:m6:18:ARG:NH1	2.40	0.54
1:5:1951:C:O2'	1:5:1952:G:H5'	2.08	0.54
1:5:2205:U:O2'	1:5:2206:G:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:2869:U:O2'	1:5:2873:U:OP1	2.22	0.54
1:5:2996:U:C6	85:5:4178:LLL:H611	2.43	0.54
85:5:4171:LLL:H532	85:5:4171:LLL:O52	2.07	0.54
3:8:76:C:H2'	3:8:77:A:O4'	2.08	0.54
7:15:78:ALA:N	7:15:105:ILE:HD13	2.23	0.54
10:18:151:VAL:HG13	10:18:199:ALA:HB2	1.89	0.54
12:m0:46:PHE:CD1	12:m0:140:THR:HA	2.43	0.54
14:m3:162:ASN:HD21	14:m3:164:GLU:HB2	1.73	0.54
22:n1:71:SER:HB3	22:n1:92:ARG:HA	1.90	0.54
24:n3:87:ARG:HH22	24:n3:137:VAL:HG22	1.73	0.54
33:o2:105:ARG:HH12	33:o2:125:ARG:NH1	2.04	0.54
45:6:320:U:C1'	45:6:321:C:H5''	2.38	0.54
45:6:322:G:H5'	45:6:322:G:C8	2.43	0.54
45:6:832:U:O2'	45:6:833:U:OP1	2.26	0.54
45:6:918:U:H2'	45:6:919:A:H8	1.72	0.54
45:6:969:C:H4'	45:6:1104:U:H4'	1.90	0.54
45:6:1332:C:OP1	63:c7:43:SER:OG	2.17	0.54
46:s0:142:PRO:HG3	67:d1:32:VAL:HG13	1.89	0.54
70:d4:106:GLN:O	70:d4:110:GLN:HG3	2.07	0.54
1:1:1223:A:OP2	1:1:1284:C:N4	2.32	0.54
1:1:1307:G:C2	1:1:1308:A:C2	2.96	0.54
7:L5:231:ILE:HG21	7:L5:239:ILE:HD11	1.90	0.54
7:L5:266:ALA:HB1	7:L5:270:LYS:HE3	1.89	0.54
32:O1:75:ILE:HG23	32:O1:93:VAL:HG22	1.90	0.54
45:2:545:A:N1	45:2:593:U:O2'	2.38	0.54
45:2:739:G:C6	45:2:740:A:C6	2.96	0.54
45:2:827:C:H2'	45:2:828:U:C6	2.42	0.54
46:S0:150:ASP:OD1	46:S0:165:ARG:NH2	2.40	0.54
1:5:59:G:H2'	3:8:33:A:O2'	2.07	0.54
1:5:1086:C:H1'	30:m9:47:LEU:HD21	1.89	0.54
1:5:1824:U:H2'	1:5:1825:G:C8	2.43	0.54
2:7:2:G:H5'	7:15:270:LYS:HG2	1.88	0.54
4:l2:28:LYS:HB3	4:l2:123:ARG:HE	1.72	0.54
4:l2:97:ASN:HB2	4:l2:100:ASN:ND2	2.23	0.54
10:18:33:ASN:HB3	10:18:38:GLN:HG3	1.90	0.54
10:18:214:LEU:HA	10:18:217:THR:HG22	1.89	0.54
16:m5:59:PHE:HZ	16:m5:148:TYR:CD1	2.25	0.54
18:m7:131:ARG:HG3	18:m7:137:ASN:OD1	2.08	0.54
30:n9:39:PHE:O	30:n9:43:HIS:HB2	2.07	0.54
35:o4:99:LYS:O	35:o4:103:LYS:HG2	2.08	0.54
45:6:218:A:N6	45:6:844:A:H1'	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:461:G:H5''	50:s4:26:CYS:SG	2.48	0.54
45:6:924:A:H2'	45:6:925:G:C8	2.43	0.54
45:6:1373:C:H2'	45:6:1374:C:C6	2.43	0.54
45:6:1557:U:OP2	45:6:1559:A:O2'	2.22	0.54
45:6:1770:U:OP2	87:6:2225:HOH:O	2.19	0.54
50:s4:125:LYS:O	50:s4:141:THR:HA	2.07	0.54
56:c0:38:LYS:HB2	56:c0:41:TYR:CD2	2.43	0.54
66:d0:103:ILE:O	66:d0:106:ILE:HG22	2.08	0.54
76:e0:44:PHE:O	76:e0:44:PHE:HD1	1.90	0.54
1:1:1679:A:OP1	23:N2:94:ARG:NH1	2.41	0.54
1:1:1765:U:H5'	1:1:1766:G:OP1	2.08	0.54
1:1:2747:A:H5'	7:L5:175:HIS:HA	1.89	0.54
1:1:3393:U:H2'	1:1:3394:U:H6	1.73	0.54
44:Q3:59:CYS:C	44:Q3:61:LYS:H	2.15	0.54
46:S0:170:ILE:H	46:S0:170:ILE:HD12	1.72	0.54
48:S2:227:PRO:HA	48:S2:230:TRP:CD1	2.43	0.54
51:S5:63:GLN:CD	51:S5:88:PRO:HA	2.32	0.54
53:S7:96:ARG:HD2	53:S7:121:VAL:HG13	1.88	0.54
57:C1:99:ARG:HB3	69:D3:9:LEU:O	2.08	0.54
65:C9:53:TRP:HH2	65:C9:100:ILE:HD12	1.73	0.54
66:D0:23:ARG:HD2	66:D0:90:TYR:HD1	1.73	0.54
1:5:436:A:H61	1:5:623:U:H3	1.55	0.54
1:5:664:U:H2'	1:5:665:A:C8	2.42	0.54
1:5:872:U:H2'	1:5:873:C:C6	2.42	0.54
1:5:1098:A:O2'	22:n1:130:ARG:O	2.21	0.54
1:5:1347:U:H2'	1:5:1348:U:C6	2.42	0.54
1:5:1659:U:H2'	1:5:1660:C:C6	2.42	0.54
13:m1:33:ALA:HB2	13:m1:123:PHE:CE1	2.42	0.54
13:m1:99:THR:O	13:m1:154:THR:OG1	2.25	0.54
28:n7:4:PHE:HB2	28:n7:9:LYS:HZ1	1.73	0.54
28:n7:135:ARG:HB3	28:n7:135:ARG:NH2	2.22	0.54
45:6:1196:A:H4'	45:6:1197:C:H5''	1.89	0.54
58:c2:28:LEU:HD22	58:c2:32:LEU:HG	1.89	0.54
58:c2:60:VAL:HG22	58:c2:122:VAL:HG22	1.90	0.54
1:1:1580:A:OP1	4:L2:68:LYS:NZ	2.41	0.54
1:1:2442:G:H2'	1:1:2443:A:H5''	1.89	0.54
9:L7:136:TYR:CZ	9:L7:231:ASN:HB2	2.42	0.54
22:N1:86:GLU:OE1	22:N1:88:ARG:NH1	2.40	0.54
37:O6:79:SER:OG	37:O6:80:PHE:N	2.40	0.54
45:2:542:A:H2'	45:2:543:C:H5'	1.90	0.54
45:2:959:U:H5'	59:C3:15:ALA:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:S5:63:GLN:O	51:S5:64:VAL:HG12	2.07	0.54
53:S7:12:ALA:HB3	53:S7:13:PRO:HD3	1.90	0.54
53:S7:114:ARG:O	53:S7:117:THR:N	2.36	0.54
58:C2:54:ARG:NH2	77:E1:127:GLY:HA3	2.23	0.54
61:C5:18:ARG:HB3	64:C8:95:GLY:HA2	1.90	0.54
1:5:1065:A:C4	30:n9:28:LYS:HB2	2.43	0.54
13:m1:64:LYS:NZ	79:sM:24:GLU:OE2	2.28	0.54
14:m3:157:ARG:HH11	29:n8:124:ILE:HG21	1.72	0.54
26:n5:135:ILE:HD12	26:n5:138:ARG:HE	1.73	0.54
27:n6:40:ARG:CZ	27:n6:46:LYS:HE2	2.38	0.54
34:o3:90:PRO:HD2	34:o3:93:THR:HG21	1.90	0.54
46:s0:200:ASP:OD1	63:c7:88:VAL:HG13	2.08	0.54
52:s6:31:ARG:H	52:s6:34:GLN:HG3	1.73	0.54
64:c8:2:SER:OG	64:c8:4:VAL:HG23	2.08	0.54
1:1:121:A:C6	10:L8:129:PRO:HG3	2.43	0.54
1:1:1906:G:N2	1:1:1909:A:N1	2.56	0.54
1:1:2683:U:H2'	1:1:2684:C:H6	1.72	0.54
1:1:3392:U:H2'	1:1:3393:U:H6	1.73	0.54
5:L3:296:THR:HG23	5:L3:298:PHE:H	1.71	0.54
20:M9:135:LYS:O	20:M9:139:VAL:HG23	2.08	0.54
26:N5:58:ASP:OD2	26:N5:61:LYS:N	2.40	0.54
33:O2:23:ASP:OD1	33:O2:23:ASP:N	2.39	0.54
37:O6:43:LEU:HD13	37:O6:47:ILE:HD11	1.89	0.54
37:O6:56:ARG:HH22	37:O6:76:ARG:NH1	2.05	0.54
45:2:577:G:H5'	45:2:578:U:H5'	1.88	0.54
45:2:882:U:H2'	45:2:883:C:C6	2.42	0.54
45:2:1280:C:H4'	66:D0:70:THR:HA	1.89	0.54
51:S5:43:PHE:CE2	51:S5:130:ILE:HD13	2.43	0.54
51:S5:59:VAL:C	51:S5:61:TYR:H	2.16	0.54
51:S5:166:ARG:HD2	74:D8:46:GLY:HA3	1.90	0.54
66:D0:51:VAL:HG22	66:D0:94:GLU:HB2	1.90	0.54
78:SR:38:ARG:HG2	78:SR:67:ILE:HG23	1.89	0.54
1:5:371:G:H4'	1:5:396:A:N1	2.23	0.54
1:5:1922:A:H2'	1:5:1923:C:O4'	2.08	0.54
1:5:2111:G:H4'	1:5:2112:U:OP2	2.08	0.54
1:5:2938:G:N7	5:l3:3:HIS:HB2	2.23	0.54
1:5:2975:U:OP2	85:5:4175:LLL:N12	2.41	0.54
17:m6:15:LEU:HD21	17:m6:125:ARG:HG3	1.90	0.54
17:m6:141:LEU:O	17:m6:144:SER:HB3	2.08	0.54
81:n4:101:ARG:HB3	81:n4:105:ARG:HH11	1.73	0.54
45:6:71:A:H1'	45:6:81:G:H22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s2:103:VAL:HG21	48:s2:187:LEU:HD12	1.90	0.54
51:s5:41:LYS:NZ	51:s5:68:ILE:HA	2.22	0.54
59:c3:84:ILE:HG21	59:c3:149:LEU:HD21	1.89	0.54
62:c6:33:GLY:O	65:c9:7:ARG:HD3	2.08	0.54
72:d6:87:ARG:HB3	72:d6:91:ASP:HB3	1.90	0.54
1:1:947:G:H5'	33:O2:55:ILE:HB	1.89	0.53
1:1:1308:A:C8	1:1:1308:A:OP2	2.61	0.53
1:1:1721:U:OP2	20:M9:124:TYR:OH	2.14	0.53
6:L4:203:ARG:NH1	6:L4:226:GLU:OE2	2.33	0.53
6:L4:205:PRO:HB3	6:L4:247:PHE:CD2	2.44	0.53
8:L6:54:TYR:CE2	8:L6:63:LEU:HD22	2.43	0.53
28:N7:101:PHE:HA	28:N7:107:ARG:HE	1.72	0.53
28:N7:122:HIS:O	28:N7:125:GLY:HA2	2.08	0.53
29:N8:93:SER:O	29:N8:93:SER:OG	2.16	0.53
37:O6:25:LYS:HB2	37:O6:28:TYR:HD2	1.72	0.53
65:C9:77:ASN:HB3	65:C9:95:ASP:HB3	1.89	0.53
68:D2:103:ILE:HA	68:D2:112:ASP:HA	1.89	0.53
74:D8:13:ILE:O	74:D8:14:LYS:HD2	2.08	0.53
75:D9:6:VAL:O	75:D9:7:TRP:HB3	2.07	0.53
1:5:89:A:OP2	19:m8:171:LYS:HE2	2.07	0.53
1:5:720:A:H5'	19:m8:69:ARG:NH1	2.23	0.53
1:5:760:G:H1'	1:5:770:G:N2	2.23	0.53
1:5:979:U:H1'	1:5:980:A:N7	2.23	0.53
1:5:1613:A:OP1	39:o8:2:ALA:N	2.41	0.53
1:5:2655:U:H4'	1:5:2656:A:O4'	2.08	0.53
2:7:47:C:H2'	2:7:48:U:H6	1.73	0.53
5:l3:92:TYR:CE1	5:l3:159:ARG:HD2	2.43	0.53
7:l5:64:ILE:HD12	7:l5:144:VAL:HG21	1.89	0.53
27:n6:56:VAL:HG22	27:n6:104:LEU:HB3	1.89	0.53
45:6:454:U:H3'	45:6:455:C:C6	2.43	0.53
45:6:1198:G:O3'	75:d9:40:ARG:NH2	2.41	0.53
45:6:1235:C:H5'	77:e1:146:SER:HB2	1.91	0.53
45:6:1254:U:OP2	58:c2:46:ARG:NH1	2.39	0.53
45:6:1647:U:H2'	45:6:1648:A:C8	2.43	0.53
59:c3:28:LEU:O	59:c3:32:SER:OG	2.20	0.53
62:c6:131:GLY:HA3	62:c6:136:SER:O	2.09	0.53
1:1:979:U:H1'	1:1:980:A:N7	2.23	0.53
1:1:2582:C:H2'	1:1:2583:C:C6	2.42	0.53
1:1:3243:A:H4'	5:L3:95:THR:HG22	1.89	0.53
5:L3:216:ASP:CG	5:L3:278:ILE:HG22	2.34	0.53
6:L4:16:THR:HG22	6:L4:18:ASN:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M1:109:HIS:HE1	13:M1:122:ILE:HA	1.72	0.53
16:M5:53:TYR:HD1	16:M5:133:ILE:HD13	1.73	0.53
45:2:52:U:H2'	45:2:53:G:C8	2.43	0.53
45:2:898:A:H4'	60:C4:46:MET:HE3	1.90	0.53
45:2:1338:C:N4	45:2:1339:C:H41	2.06	0.53
45:2:1492:A:O2'	45:2:1493:A:O4'	2.26	0.53
47:S1:61:LEU:HD22	47:S1:62:LYS:H	1.74	0.53
64:C8:29:VAL:O	64:C8:43:SER:OG	2.23	0.53
66:D0:30:LYS:HD3	66:D0:33:GLN:HE21	1.72	0.53
1:5:1764:U:H3'	1:5:1765:U:C4'	2.38	0.53
1:5:2178:A:H5''	4:12:132:ASN:OD1	2.09	0.53
1:5:3193:C:H2'	1:5:3194:C:O4'	2.08	0.53
4:12:48:ILE:HG22	4:12:59:ALA:HA	1.89	0.53
10:18:190:VAL:HG23	10:18:192:GLN:HB2	1.89	0.53
12:m0:36:LEU:HD12	12:m0:87:LEU:HB3	1.89	0.53
12:m0:72:ALA:HB2	12:m0:155:ALA:HB2	1.89	0.53
81:n4:96:LEU:HD12	81:n4:101:ARG:HE	1.72	0.53
39:o8:43:PHE:CE2	39:o8:56:ILE:HD13	2.43	0.53
82:p0:26:PHE:HB2	82:p0:87:VAL:HB	1.90	0.53
45:6:130:C:N4	45:6:131:C:H41	2.06	0.53
45:6:1328:G:OP2	87:6:2214:HOH:O	2.19	0.53
45:6:1511:U:H2'	45:6:1512:G:C8	2.43	0.53
45:6:1767:G:OP1	45:6:1770:U:H4'	2.08	0.53
47:s1:97:LEU:HB3	47:s1:232:HIS:CE1	2.43	0.53
48:s2:143:TYR:CD2	48:s2:147:ASN:HA	2.43	0.53
59:c3:23:PRO:HB2	59:c3:25:TRP:NE1	2.22	0.53
64:c8:24:GLY:O	64:c8:59:GLY:N	2.42	0.53
66:d0:69:LYS:O	75:d9:44:ARG:NH2	2.41	0.53
66:d0:99:ILE:HA	66:d0:102:ARG:HG2	1.91	0.53
70:d4:20:ARG:HD2	70:d4:74:LEU:HD22	1.90	0.53
1:1:763:G:H2'	1:1:764:U:O4'	2.08	0.53
1:1:1029:G:H2'	1:1:1030:A:C8	2.43	0.53
1:1:1389:G:H5''	33:O2:101:SER:HB3	1.90	0.53
1:1:1636:U:H5''	28:N7:73:LYS:HZ1	1.73	0.53
1:1:2261:G:H21	1:1:2262:A:N6	2.06	0.53
1:1:2818:U:H5'	1:1:2818:U:C6	2.42	0.53
8:L6:40:LEU:HB2	8:L6:52:VAL:HG12	1.90	0.53
14:M3:140:SER:OG	14:M3:141:ALA:N	2.42	0.53
18:M7:36:ILE:HD11	18:M7:48:LEU:HD11	1.89	0.53
26:N5:121:LYS:HD3	26:N5:123:TYR:CE1	2.43	0.53
28:N7:10:VAL:O	28:N7:83:THR:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:156:A:H2'	45:2:157:A:O4'	2.08	0.53
46:S0:10:THR:OG1	46:S0:13:ASP:OD2	2.26	0.53
47:S1:49:ASN:O	47:S1:57:ALA:HB2	2.09	0.53
50:S4:181:VAL:H	50:S4:193:GLY:HA2	1.72	0.53
63:C7:122:ILE:HG22	63:C7:123:ASN:H	1.73	0.53
1:5:541:U:H2'	1:5:542:G:C8	2.43	0.53
1:5:1661:G:H2'	1:5:1662:G:C8	2.43	0.53
1:5:1822:C:OP2	85:5:4162:LLL:N12	2.41	0.53
1:5:1940:G:H21	1:5:3362:A:H8	1.54	0.53
10:l8:47:SER:HA	10:l8:50:VAL:HG23	1.89	0.53
14:m3:43:ALA:O	14:m3:46:ILE:HG22	2.08	0.53
21:n0:155:ARG:HD3	21:n0:172:TYR:CG	2.44	0.53
26:n5:137:ASN:HB3	26:n5:142:ILE:HG13	1.91	0.53
28:n7:4:PHE:O	28:n7:5:LEU:HB2	2.08	0.53
30:n9:5:LYS:HG2	30:n9:6:ASN:H	1.73	0.53
45:6:800:U:H2'	45:6:801:G:C8	2.43	0.53
45:6:1317:C:H2'	45:6:1318:G:O4'	2.08	0.53
50:s4:45:ILE:HA	50:s4:61:VAL:HG11	1.90	0.53
51:s5:70:VAL:HG11	62:c6:43:ILE:O	2.08	0.53
54:s8:166:TYR:O	54:s8:183:ILE:HD12	2.08	0.53
1:1:78:U:OP2	87:1:4169:HOH:O	2.19	0.53
1:1:161:G:N2	1:1:261:U:H1'	2.22	0.53
1:1:265:A:H5''	1:1:266:A:OP2	2.09	0.53
1:1:826:G:O6	85:1:4000:LLL:N32	2.40	0.53
1:1:938:C:O2	1:1:2813:A:O2'	2.25	0.53
1:1:1073:U:H1'	30:N9:50:THR:HB	1.90	0.53
85:1:3989:LLL:N33	2:3:90:U:OP1	2.38	0.53
4:L2:3:ARG:HG2	4:L2:4:VAL:H	1.73	0.53
12:M0:76:MET:HE2	12:M0:148:VAL:HG22	1.89	0.53
12:M0:208:ASN:HA	12:M0:211:ARG:HB2	1.90	0.53
20:M9:17:VAL:HG12	20:M9:18:GLY:H	1.73	0.53
25:N4:9:SER:OG	25:N4:10:GLY:N	2.40	0.53
37:O6:8:ALA:O	37:O6:13:LYS:HG3	2.08	0.53
45:2:1118:G:H2'	45:2:1119:G:C8	2.44	0.53
45:2:1365:C:H5''	62:C6:28:LEU:HD22	1.89	0.53
45:2:1389:C:H5'	63:C7:49:LYS:HD2	1.89	0.53
59:C3:17:PRO:HG3	73:D7:28:PRO:HG3	1.91	0.53
59:C3:29:SER:O	59:C3:32:SER:OG	2.24	0.53
62:C6:95:LYS:O	78:SR:59:ARG:NH2	2.41	0.53
64:C8:92:ILE:HG23	64:C8:93:THR:HG23	1.89	0.53
1:5:118:U:C5	1:5:119:U:C4	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1602:A:O3'	20:m9:9:ARG:NH2	2.41	0.53
1:5:2344:U:H2'	1:5:2345:A:C8	2.43	0.53
1:5:2535:A:H8	1:5:2535:A:OP2	1.92	0.53
29:n8:77:LYS:C	29:n8:79:TRP:H	2.15	0.53
45:6:197:A:N6	54:s8:138:ASN:OD1	2.31	0.53
45:6:415:C:O2'	45:6:418:G:O6	2.26	0.53
45:6:477:A:C5	45:6:538:A:N6	2.76	0.53
45:6:512:A:H2'	45:6:513:U:C6	2.43	0.53
45:6:885:G:N2	60:c4:123:SER:HB2	2.22	0.53
45:6:1208:A:H5''	45:6:1209:C:OP2	2.08	0.53
45:6:1429:G:H2'	45:6:1430:U:C6	2.44	0.53
45:6:1491:U:H1'	45:6:1492:A:O5'	2.08	0.53
52:s6:31:ARG:HG2	52:s6:34:GLN:CG	2.38	0.53
78:sR:249:ARG:HH12	78:sR:315:VAL:HG21	1.74	0.53
1:1:975:C:H2'	1:1:976:U:C6	2.43	0.53
1:1:1525:G:C5	1:1:1829:G:C6	2.96	0.53
1:1:2206:G:H5''	1:1:2207:A:OP2	2.09	0.53
11:L9:47:LYS:H	15:M4:7:VAL:HG11	1.72	0.53
19:M8:19:PRO:HB3	19:M8:53:PHE:HA	1.89	0.53
45:2:12:U:H2'	45:2:13:C:C6	2.43	0.53
45:2:522:U:OP1	70:D4:37:LYS:HB2	2.09	0.53
45:2:895:G:O2'	60:C4:38:THR:HG22	2.08	0.53
45:2:1438:G:H4'	49:S3:178:ARG:O	2.09	0.53
46:S0:172:LEU:O	46:S0:176:LEU:HG	2.07	0.53
53:S7:6:ALA:O	53:S7:9:LEU:HB2	2.08	0.53
62:C6:114:ARG:NE	62:C6:114:ARG:HA	2.24	0.53
74:D8:11:LYS:N	74:D8:31:GLU:O	2.42	0.53
1:5:163:C:H42	1:5:258:G:H1	1.57	0.53
1:5:353:G:N2	1:5:364:G:H2'	2.24	0.53
1:5:1363:A:H2'	1:5:1364:C:O4'	2.09	0.53
1:5:1786:G:H2'	1:5:1787:A:C8	2.43	0.53
1:5:3112:G:O2'	11:l9:70:THR:HB	2.09	0.53
1:5:3237:U:H2'	1:5:3238:G:O4'	2.09	0.53
4:l2:96:LEU:O	44:q3:87:ARG:HD3	2.07	0.53
5:l3:286:GLY:HA3	5:l3:321:PHE:CE2	2.44	0.53
5:l3:323:MET:HE1	5:l3:356:LEU:HD11	1.90	0.53
7:l5:183:TRP:CZ3	7:l5:185:PHE:HA	2.44	0.53
11:l9:112:ILE:HD11	11:l9:134:ILE:HG12	1.90	0.53
14:m3:89:TYR:CE1	14:m3:93:ILE:HD11	2.43	0.53
17:m6:182:ASN:O	17:m6:185:ALA:N	2.41	0.53
21:n0:26:ARG:HH11	22:n1:150:THR:CG2	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:o4:5:VAL:HG22	35:o4:6:THR:H	1.74	0.53
36:o5:54:VAL:HG12	36:o5:58:ILE:HD11	1.91	0.53
45:6:1657:U:O2'	45:6:1658:G:OP2	2.23	0.53
45:6:1796:C:H6	72:d6:7:SER:HB3	1.73	0.53
46:s0:179:ARG:HD3	46:s0:183:ARG:CZ	2.39	0.53
47:s1:119:THR:HB	47:s1:143:THR:HG23	1.90	0.53
56:c0:14:TYR:OH	56:c0:34:GLU:OE1	2.25	0.53
66:d0:51:VAL:HG11	66:d0:94:GLU:H	1.74	0.53
72:d6:9:GLY:HA3	72:d6:34:LYS:HE2	1.91	0.53
1:1:1298:C:O2'	41:Q0:113:ARG:HD2	2.09	0.53
1:1:1348:U:OP1	1:1:1348:U:H3'	2.08	0.53
1:1:1559:A:H4'	1:1:1560:G:OP2	2.07	0.53
1:1:3275:U:H3'	1:1:3276:G:C5'	2.39	0.53
12:M0:66:GLU:OE1	12:M0:69:ARG:NH2	2.41	0.53
18:M7:36:ILE:HG12	18:M7:44:ALA:HB1	1.91	0.53
19:M8:44:PHE:O	19:M8:48:VAL:HG23	2.07	0.53
32:O1:52:ALA:HB2	32:O1:92:TYR:CE2	2.43	0.53
36:O5:22:VAL:O	36:O5:26:LYS:HB2	2.08	0.53
40:O9:27:ILE:HG23	40:O9:30:ARG:NE	2.24	0.53
45:2:58:U:O2'	45:2:451:A:N3	2.39	0.53
45:2:66:U:H1'	52:S6:160:ARG:HH21	1.74	0.53
45:2:883:C:H2'	45:2:884:A:H8	1.74	0.53
45:2:1401:A:O3'	63:C7:10:LYS:NZ	2.38	0.53
54:S8:54:LYS:HG2	54:S8:175:GLN:O	2.08	0.53
65:C9:7:ARG:NH2	65:C9:67:MET:O	2.42	0.53
70:D4:50:ALA:O	70:D4:51:GLU:HG2	2.09	0.53
73:D7:14:SER:O	73:D7:17:ARG:HG2	2.08	0.53
1:5:45:A:P	16:m5:85:THR:HG21	2.49	0.53
1:5:660:A:H5''	6:l4:100:PHE:CD1	2.43	0.53
1:5:1235:U:C4'	1:5:1236:G:H5'	2.39	0.53
1:5:1497:C:H2'	1:5:1498:A:C8	2.43	0.53
1:5:3051:U:H1'	24:n3:92:PHE:CE1	2.43	0.53
1:5:3160:U:H2'	1:5:3161:C:C6	2.43	0.53
85:5:4172:LLL:H11	85:5:4172:LLL:N32	2.24	0.53
2:7:52:G:OP1	85:7:231:LLL:O52	2.19	0.53
5:l3:146:ARG:HG2	5:l3:147:GLU:N	2.23	0.53
6:l4:3:ARG:HH21	6:l4:22:LEU:CD1	2.22	0.53
7:l5:95:TRP:CH2	7:l5:181:PRO:HD3	2.43	0.53
28:n7:115:LYS:O	28:n7:119:GLU:HG2	2.08	0.53
46:s0:136:ALA:HB1	46:s0:141:ILE:HB	1.90	0.53
47:s1:198:GLU:O	47:s1:202:LYS:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:61:TYR:HE2	51:s5:164:PRO:HG2	1.74	0.53
53:s7:9:LEU:HG	53:s7:10:SER:H	1.73	0.53
61:c5:51:SER:C	61:c5:53:PRO:HD3	2.33	0.53
71:d5:60:VAL:HB	71:d5:101:TYR:HB2	1.90	0.53
1:1:1812:G:O3'	1:1:1817:G:O2'	2.26	0.53
1:1:1856:C:H2'	1:1:1857:C:C6	2.43	0.53
1:1:2736:A:O2'	22:N1:68:THR:HG21	2.07	0.53
5:L3:283:TYR:HB3	5:L3:356:LEU:HD21	1.90	0.53
18:M7:25:SER:HB3	18:M7:28:ASN:HB2	1.90	0.53
49:S3:206:VAL:HG22	63:C7:41:ILE:HG13	1.90	0.53
65:C9:4:VAL:HG11	65:C9:137:ALA:HB2	1.91	0.53
69:D3:29:TYR:O	69:D3:33:LEU:HD12	2.09	0.53
75:D9:6:VAL:O	75:D9:7:TRP:CE3	2.62	0.53
1:5:197:G:N2	1:5:372:A:C8	2.77	0.53
1:5:289:A:H2'	1:5:290:G:C8	2.44	0.53
1:5:578:A:H2'	6:l4:334:PHE:HB3	1.90	0.53
1:5:1577:G:H2'	1:5:1578:C:C6	2.43	0.53
1:5:1724:U:H1'	1:5:1725:C:C6	2.43	0.53
1:5:1765:U:H5''	20:m9:43:LYS:HE2	1.89	0.53
1:5:2696:A:H2'	1:5:2697:A:C8	2.44	0.53
1:5:2737:C:OP1	22:n1:70:SER:OG	2.25	0.53
1:5:3223:A:C5	1:5:3263:G:C6	2.97	0.53
3:8:70:G:H1	85:8:221:LLL:H312	1.74	0.53
7:l5:183:TRP:CH2	7:l5:188:GLU:HA	2.43	0.53
14:m3:16:LYS:O	14:m3:17:HIS:HB2	2.08	0.53
19:m8:54:LEU:HD13	19:m8:144:ARG:HH21	1.74	0.53
21:n0:90:MET:HE1	21:n0:114:HIS:CE1	2.42	0.53
45:6:597:G:O6	85:6:2173:LLL:N61	2.42	0.53
45:6:1598:U:OP1	85:6:2170:LLL:H42	2.08	0.53
49:s3:44:THR:HG23	49:s3:45:LYS:CD	2.39	0.53
51:s5:87:CYS:SG	51:s5:92:ARG:HG3	2.48	0.53
55:s9:81:VAL:HG22	55:s9:86:LEU:HB3	1.91	0.53
57:c1:110:HIS:HD2	57:c1:138:ASN:HD21	1.56	0.53
62:c6:82:ARG:HH22	62:c6:114:ARG:HB2	1.73	0.53
75:d9:10:HIS:ND1	75:d9:11:PRO:HD2	2.24	0.53
1:1:2108:C:H1'	1:1:3344:A:H8	1.72	0.53
1:1:2871:G:OP2	87:1:4170:HOH:O	2.19	0.53
5:L3:37:ARG:HG3	5:L3:187:SER:H	1.73	0.53
5:L3:113:GLU:HB3	5:L3:176:ALA:HB2	1.91	0.53
20:M9:86:GLU:OE2	20:M9:91:SER:N	2.38	0.53
45:2:69:G:H1	45:2:82:U:H3	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:533:U:H4'	70:D4:33:ALA:HB2	1.90	0.53
45:2:885:G:H21	60:C4:123:SER:HB2	1.73	0.53
45:2:890:C:H2'	45:2:891:A:C8	2.43	0.53
45:2:1093:A:H4'	85:2:2043:LLL:H12	1.91	0.53
45:2:1288:G:N7	45:2:1314:U:H2'	2.23	0.53
46:S0:198:MET:SD	63:C7:88:VAL:HG11	2.48	0.53
55:S9:34:PHE:CD1	55:S9:111:THR:HG21	2.44	0.53
65:C9:38:LYS:HD3	65:C9:43:ASN:O	2.09	0.53
75:D9:4:GLU:HB2	75:D9:7:TRP:CZ2	2.44	0.53
78:SR:161:ALA:HB3	78:SR:164:ASP:HB3	1.91	0.53
1:5:123:A:C6	1:5:150:A:C5	2.96	0.53
1:5:926:A:OP1	85:5:4158:LLL:N12	2.42	0.53
1:5:1735:G:N7	85:5:4163:LLL:N32	2.56	0.53
1:5:2801:A:O2'	1:5:2802:A:H2'	2.08	0.53
7:15:206:GLN:O	7:15:210:GLU:HG3	2.09	0.53
10:18:186:LEU:HD12	10:18:196:ALA:O	2.08	0.53
34:o3:51:TYR:HB2	34:o3:98:VAL:HG23	1.90	0.53
42:q1:2:ARG:HB3	42:q1:5:TRP:CD1	2.43	0.53
45:6:566:C:O2'	76:e0:10:ARG:HD2	2.08	0.53
45:6:1143:A:OP2	72:d6:2:PRO:HG3	2.09	0.53
49:s3:167:PHE:CE1	49:s3:192:PRO:HB3	2.44	0.53
51:s5:51:VAL:O	51:s5:65:ARG:NH1	2.42	0.53
51:s5:58:LEU:HD11	51:s5:167:ARG:NH1	2.23	0.53
52:s6:200:ALA:HA	52:s6:203:GLU:HG3	1.89	0.53
54:s8:61:GLU:HG2	54:s8:62:THR:HG23	1.89	0.53
1:1:149:U:H5'	16:M5:55:ALA:HB3	1.90	0.53
1:1:1133:A:OP1	87:1:4171:HOH:O	2.19	0.53
1:1:1170:A:H2'	1:1:1171:G:O4'	2.09	0.53
1:1:1709:C:H2'	1:1:1710:C:C6	2.44	0.53
1:1:1949:G:OP1	20:M9:104:ARG:NH1	2.42	0.53
1:1:3317:U:H4'	1:1:3318:G:O5'	2.09	0.53
4:L2:132:ASN:HD22	4:L2:132:ASN:N	2.07	0.53
14:M3:50:PRO:HB3	36:O5:118:ILE:CD1	2.38	0.53
27:N6:45:ILE:HD12	27:N6:119:ILE:HG23	1.91	0.53
31:O0:17:VAL:HG22	31:O0:100:ILE:HG12	1.90	0.53
45:2:629:U:OP2	45:2:969:C:N4	2.39	0.53
45:2:887:A:C1'	60:C4:122:PRO:HB3	2.39	0.53
45:2:1170:G:C6	45:2:1574:G:C5	2.97	0.53
45:2:1229:G:HO2'	45:2:1255:G:N2	2.05	0.53
45:2:1464:G:O3'	62:C6:141:SER:HB3	2.09	0.53
48:S2:157:LYS:HG2	48:S2:170:ILE:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:D2:31:SER:O	68:D2:35:ILE:HG12	2.09	0.53
69:D3:6:PRO:HG3	69:D3:14:LYS:HG2	1.90	0.53
78:SR:293:ALA:HB3	78:SR:302:PHE:HB2	1.91	0.53
1:5:634:C:O3'	33:o2:47:ARG:NH1	2.42	0.53
1:5:1110:U:H2'	1:5:1111:U:C6	2.44	0.53
1:5:3099:C:O2'	1:5:3100:U:H5'	2.08	0.53
1:5:3357:U:O2'	1:5:3358:U:OP1	2.24	0.53
1:5:3383:G:H2'	1:5:3384:U:C6	2.44	0.53
3:8:62:C:H4'	3:8:63:G:O5'	2.09	0.53
3:8:138:A:OP1	85:8:222:LLL:N12	2.42	0.53
5:l3:114:VAL:O	5:l3:117:ARG:HB3	2.09	0.53
6:l4:33:ASP:O	6:l4:37:THR:HG23	2.08	0.53
6:l4:295:ILE:O	6:l4:299:ILE:HG12	2.09	0.53
8:l6:55:LEU:HD11	8:l6:66:SER:HB2	1.91	0.53
15:m4:17:VAL:HG12	15:m4:72:LEU:HB3	1.91	0.53
81:n4:47:ARG:HH11	81:n4:58:HIS:HB2	1.73	0.53
28:n7:41:ALA:HB2	28:n7:77:TYR:HE2	1.73	0.53
28:n7:54:THR:HG22	28:n7:57:HIS:CE1	2.44	0.53
36:o5:40:SER:O	36:o5:42:PRO:HD3	2.08	0.53
45:6:86:A:H2'	45:6:87:C:H6	1.73	0.53
45:6:821:U:H2'	45:6:822:U:O4'	2.09	0.53
70:d4:121:THR:HG22	70:d4:123:LYS:HG3	1.90	0.53
1:1:33:G:O2'	1:1:51:A:N6	2.38	0.53
1:1:1562:C:O2'	1:1:1563:C:O5'	2.26	0.53
1:1:2093:A:H3'	1:1:2093:A:N3	2.23	0.53
6:L4:311:HIS:ND1	6:L4:311:HIS:O	2.42	0.53
12:M0:48:LEU:HA	12:M0:178:ARG:HH12	1.74	0.53
45:2:1363:U:H3'	45:2:1364:G:H8	1.73	0.53
45:2:1671:A:H2'	45:2:1672:G:O4'	2.09	0.53
45:2:1796:C:H6	72:D6:7:SER:HB3	1.74	0.53
50:S4:206:ASP:HB2	50:S4:222:LEU:HD12	1.91	0.53
62:C6:11:GLY:HA3	62:C6:80:ALA:O	2.09	0.53
71:D5:83:LEU:HB3	71:D5:89:ILE:HG12	1.91	0.53
1:5:348:A:N3	1:5:352:A:O2'	2.42	0.53
1:5:528:U:H2'	1:5:529:A:C8	2.43	0.53
1:5:1498:A:H2'	1:5:1499:C:C6	2.43	0.53
1:5:1760:A:H3'	1:5:1761:C:H6	1.73	0.53
1:5:2392:C:O2'	5:l3:266:ARG:NH2	2.28	0.53
1:5:3198:U:H4'	1:5:3199:G:OP2	2.09	0.53
13:m1:21:ILE:HG21	13:m1:33:ALA:HB1	1.91	0.53
28:n7:87:LEU:HD12	28:n7:88:ASP:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:p0:33:VAL:HG12	82:p0:34:SER:N	2.20	0.53
45:6:304:U:OP1	57:c1:136:ARG:NE	2.40	0.53
45:6:1362:U:O2'	45:6:1363:U:H5''	2.09	0.53
46:s0:7:PHE:CZ	67:d1:43:GLY:HA2	2.40	0.53
48:s2:139:ILE:HG13	48:s2:218:ILE:HB	1.90	0.53
60:c4:68:ALA:HA	60:c4:71:CYS:HB2	1.90	0.53
61:c5:24:LYS:O	61:c5:28:MET:HG3	2.09	0.53
63:c7:32:LYS:HG3	63:c7:47:ARG:HD3	1.89	0.53
67:d1:17:CYS:SG	67:d1:18:SER:N	2.82	0.53
67:d1:41:GLU:OE2	67:d1:44:ARG:NH2	2.42	0.53
68:d2:103:ILE:HD11	68:d2:126:LEU:HD12	1.91	0.53
69:d3:17:VAL:HG22	69:d3:20:ARG:HH22	1.74	0.53
69:d3:48:HIS:HB3	69:d3:103:LEU:HD21	1.90	0.53
74:d8:42:ARG:NH2	74:d8:58:GLU:O	2.42	0.53
78:sR:195:HIS:H	78:sR:195:HIS:CD2	2.26	0.53
1:1:22:G:OP2	87:1:4172:HOH:O	2.19	0.52
1:1:2426:U:H2'	1:1:2427:U:C6	2.44	0.52
1:1:2582:C:OP1	85:1:4002:LLL:N32	2.42	0.52
45:2:66:U:C5	52:S6:173:PRO:HG3	2.43	0.52
45:2:1291:G:O5'	45:2:1291:G:H8	1.92	0.52
45:2:1738:U:H2'	45:2:1739:C:C6	2.44	0.52
46:S0:185:ARG:HG3	67:D1:47:PRO:HD3	1.90	0.52
56:C0:46:LEU:O	56:C0:50:THR:HG23	2.09	0.52
68:D2:94:LEU:HD11	68:D2:102:VAL:HG23	1.90	0.52
1:5:999:G:C6	1:5:1000:C:N4	2.76	0.52
1:5:1741:A:H2'	1:5:1742:U:O4'	2.09	0.52
1:5:2144:A:H1'	1:5:2281:A:N6	2.24	0.52
1:5:3129:A:OP2	85:5:4170:LLL:H312	2.09	0.52
2:7:47:C:H2'	2:7:48:U:C6	2.44	0.52
4:l2:52:SER:HB3	4:l2:191:LEU:HD12	1.91	0.52
8:l6:47:PHE:O	8:l6:50:LYS:HB2	2.09	0.52
10:l8:202:GLU:O	10:l8:203:VAL:HG12	2.08	0.52
11:l9:10:ILE:HD13	11:l9:75:VAL:HG11	1.91	0.52
24:n3:81:GLN:NE2	24:n3:83:LYS:O	2.43	0.52
45:6:400:A:H4'	45:6:401:A:H5''	1.89	0.52
45:6:531:C:C2'	45:6:532:U:H5'	2.39	0.52
45:6:694:U:H3'	45:6:695:U:O2	2.09	0.52
45:6:1235:C:H5'	77:e1:146:SER:CB	2.39	0.52
45:6:1491:U:O2'	45:6:1492:A:OP2	2.24	0.52
46:s0:110:TYR:CE1	46:s0:111:ILE:HG13	2.44	0.52
49:s3:135:GLU:HB2	49:s3:157:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:d3:63:GLN:HA	69:d3:65:ASN:H	1.74	0.52
1:1:99:A:H5'	16:M5:194:GLN:OE1	2.09	0.52
1:1:1592:G:OP2	35:O4:37:LYS:NZ	2.37	0.52
1:1:2256:A:C2	45:2:1756:A:C8	2.98	0.52
1:1:2525:G:OP2	4:L2:37:ARG:NH1	2.34	0.52
6:L4:30:ILE:H	19:M8:25:TYR:HH	1.57	0.52
6:L4:58:HIS:HD1	6:L4:90:PHE:HD1	1.57	0.52
10:L8:172:LYS:HD3	37:O6:43:LEU:HD23	1.91	0.52
19:M8:96:PHE:CD2	19:M8:97:PRO:HD2	2.43	0.52
45:2:289:U:H2'	45:2:290:G:O4'	2.09	0.52
45:2:328:A:N3	54:S8:86:SER:OG	2.40	0.52
45:2:399:A:H4'	50:S4:3:ARG:HG2	1.90	0.52
45:2:1165:G:H2'	45:2:1166:A:C8	2.43	0.52
45:2:1293:U:H2'	45:2:1294:G:C8	2.44	0.52
45:2:1371:A:OP1	45:2:1371:A:H2'	2.09	0.52
48:S2:35:TRP:CD1	48:S2:35:TRP:C	2.86	0.52
55:S9:53:ARG:NH2	55:S9:97:LEU:O	2.42	0.52
55:S9:133:HIS:C	55:S9:134:ILE:HG13	2.34	0.52
65:C9:21:PHE:HA	65:C9:24:ARG:HD3	1.91	0.52
70:D4:58:PHE:CE2	70:D4:72:PHE:HB3	2.43	0.52
71:D5:64:VAL:HA	71:D5:67:ASP:HB2	1.91	0.52
74:D8:36:THR:OG1	74:D8:37:SER:N	2.42	0.52
1:5:94:G:H2'	1:5:95:A:C8	2.44	0.52
1:5:901:G:H2'	1:5:902:G:H8	1.74	0.52
1:5:3243:A:OP1	17:m6:159:LYS:NZ	2.42	0.52
45:6:333:A:OP1	54:s8:31:ARG:NH2	2.42	0.52
45:6:1342:C:H2'	45:6:1343:U:C6	2.43	0.52
45:6:1559:A:H5''	64:c8:135:GLY:HA3	1.91	0.52
48:s2:43:ARG:HD3	48:s2:247:ALA:O	2.09	0.52
48:s2:161:LYS:HB2	48:s2:166:THR:HG22	1.91	0.52
57:c1:57:LYS:O	57:c1:138:ASN:ND2	2.42	0.52
64:c8:28:ILE:HD12	64:c8:29:VAL:H	1.75	0.52
1:1:669:U:H1'	1:1:1110:U:H4'	1.90	0.52
1:1:2186:U:OP2	4:L2:200:ARG:NH2	2.41	0.52
1:1:2631:U:H2'	1:1:2632:G:C8	2.44	0.52
1:1:3322:A:H2'	1:1:3323:A:C8	2.45	0.52
13:M1:49:LYS:HB3	13:M1:62:ASN:HA	1.92	0.52
14:M3:119:TYR:HD1	14:M3:145:PHE:CE2	2.27	0.52
19:M8:44:PHE:CD2	19:M8:134:GLY:HA3	2.44	0.52
29:N8:133:LEU:HD11	29:N8:137:LYS:HE2	1.91	0.52
33:O2:111:ARG:NH2	33:O2:115:LEU:HD21	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:O7:25:ARG:HG3	40:O9:51:ILE:HG21	1.91	0.52
43:Q2:8:ARG:O	43:Q2:23:HIS:N	2.42	0.52
45:2:575:C:OP1	79:SM:104:LYS:N	2.36	0.52
45:2:698:U:H1'	53:S7:107:ARG:HH11	1.74	0.52
45:2:793:A:H5''	45:2:794:U:O5'	2.09	0.52
45:2:844:A:H2'	45:2:845:G:H8	1.74	0.52
45:2:1315:U:OP1	45:2:1328:G:N2	2.30	0.52
45:2:1466:G:O2'	45:2:1602:C:OP1	2.27	0.52
47:S1:90:GLU:HG2	47:S1:223:PHE:HZ	1.74	0.52
49:S3:79:TYR:HD1	49:S3:84:ILE:HB	1.74	0.52
50:S4:160:VAL:HG13	50:S4:169:ILE:HG23	1.91	0.52
51:S5:189:THR:OG1	51:S5:192:GLU:OE1	2.28	0.52
53:S7:31:SER:HB3	53:S7:32:PRO:CD	2.39	0.52
53:S7:154:LEU:O	53:S7:186:PRO:HD3	2.10	0.52
59:C3:120:SER:O	59:C3:124:ARG:HG3	2.10	0.52
63:C7:19:ARG:HG3	63:C7:20:TYR:CD1	2.44	0.52
72:D6:20:PRO:HA	72:D6:31:PRO:HA	1.92	0.52
78:SR:23:LEU:HB2	78:SR:293:ALA:HB2	1.91	0.52
1:5:796:U:H2'	1:5:797:U:H6	1.73	0.52
1:5:1145:G:H5'	33:o2:46:PHE:CE1	2.44	0.52
1:5:1660:C:H2'	1:5:1661:G:H8	1.74	0.52
1:5:2663:G:H2'	1:5:2664:C:O4'	2.08	0.52
1:5:2689:A:H2'	1:5:2689:A:N3	2.23	0.52
1:5:2809:C:N3	1:5:2810:C:H1'	2.24	0.52
3:8:109:A:OP2	87:8:303:HOH:O	2.19	0.52
4:l2:18:SER:OG	4:l2:23:ARG:NH2	2.42	0.52
9:l7:83:LEU:HD22	9:l7:84:VAL:H	1.75	0.52
12:m0:51:HIS:ND1	12:m0:137:SER:OG	2.41	0.52
28:n7:100:THR:HG21	28:n7:110:ALA:HB2	1.92	0.52
45:6:165:G:H2'	45:6:166:C:H5''	1.91	0.52
45:6:512:A:OP2	55:s9:173:ALA:N	2.42	0.52
46:s0:172:LEU:O	46:s0:176:LEU:HG	2.09	0.52
55:s9:36:LEU:HD13	55:s9:42:ILE:HG12	1.90	0.52
57:c1:109:VAL:HG11	57:c1:125:VAL:HG11	1.91	0.52
66:d0:68:ARG:NH1	66:d0:77:LYS:HG3	2.25	0.52
1:1:620:U:H2'	1:1:621:A:H4'	1.90	0.52
1:1:1114:U:H5''	29:N8:22:ILE:HD12	1.90	0.52
1:1:2655:U:H4'	1:1:2656:A:O4'	2.09	0.52
1:1:2933:A:C2	1:1:3014:U:H4'	2.44	0.52
3:4:85:G:O6	27:N6:112:ASP:HB3	2.10	0.52
4:L2:65:ASP:HB3	4:L2:68:LYS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:3:ARG:HD3	6:L4:22:LEU:O	2.10	0.52
14:M3:89:TYR:CZ	14:M3:93:ILE:HD11	2.44	0.52
26:N5:46:TYR:HD2	36:O5:75:TYR:HB3	1.75	0.52
27:N6:3:LYS:HE2	27:N6:8:VAL:O	2.10	0.52
32:O1:20:LEU:HD11	32:O1:32:ALA:HB2	1.91	0.52
45:2:514:G:O2'	45:2:515:A:H5'	2.08	0.52
45:2:1045:C:OP1	47:S1:153:HIS:NE2	2.42	0.52
45:2:1221:A:H2'	45:2:1222:C:C6	2.44	0.52
45:2:1383:G:OP1	66:D0:89:ARG:NH1	2.31	0.52
45:2:1484:G:N2	45:2:1606:C:O2	2.40	0.52
45:2:1796:C:C6	72:D6:7:SER:HB3	2.44	0.52
49:S3:51:ARG:HH21	49:S3:91:VAL:HG13	1.73	0.52
51:S5:20:PHE:CE1	51:S5:35:GLN:HA	2.44	0.52
61:C5:121:ILE:HG23	61:C5:123:TYR:CD1	2.45	0.52
66:D0:53:LYS:HG3	66:D0:92:ASP:HB2	1.91	0.52
69:D3:68:ILE:HD12	76:E0:10:ARG:HH22	1.74	0.52
1:5:126:U:H2'	1:5:127:G:O4'	2.10	0.52
1:5:606:C:O2'	1:5:607:A:N3	2.40	0.52
1:5:985:U:H2'	1:5:986:U:H6	1.74	0.52
1:5:1543:G:OP1	16:m5:35:VAL:HG23	2.10	0.52
1:5:2947:G:OP2	1:5:2947:G:H4'	2.09	0.52
6:l4:207:VAL:O	6:l4:227:THR:HA	2.08	0.52
7:l5:200:PHE:HB3	7:l5:237:GLU:HG2	1.92	0.52
16:m5:45:PRO:O	16:m5:49:ARG:HB2	2.08	0.52
19:m8:177:GLY:O	19:m8:186:VAL:N	2.39	0.52
28:n7:87:LEU:HD13	28:n7:127:ASN:CG	2.35	0.52
44:q3:56:THR:HA	44:q3:63:THR:HA	1.91	0.52
45:6:1492:A:C8	45:6:1493:A:C4	2.98	0.52
45:6:1707:A:H2'	45:6:1708:U:C6	2.44	0.52
47:s1:35:PRO:HB3	47:s1:231:LEU:HD11	1.90	0.52
50:s4:259:GLN:C	50:s4:261:LEU:HA	2.35	0.52
65:c9:33:TYR:OH	65:c9:99:SER:HB3	2.08	0.52
68:d2:11:LEU:HD11	68:d2:37:PHE:HE2	1.73	0.52
78:sR:89:LEU:HB2	78:sR:103:PHE:HB2	1.91	0.52
1:l1:1146:C:H4'	1:l1:1331:U:C4	2.45	0.52
6:L4:264:SER:O	6:L4:266:THR:N	2.43	0.52
9:L7:84:VAL:HG21	9:L7:136:TYR:CD2	2.44	0.52
10:L8:134:TYR:CG	10:L8:190:VAL:HG21	2.44	0.52
28:N7:4:PHE:CZ	31:O0:35:ARG:HA	2.45	0.52
28:N7:84:ARG:HA	31:O0:62:LEU:HD21	1.91	0.52
41:Q0:115:CYS:SG	41:Q0:118:THR:HG22	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:Q1:14:LYS:HG3	45:2:1116:A:OP1	2.09	0.52
45:2:301:A:H2'	45:2:302:U:O4'	2.09	0.52
45:2:1579:U:H5''	62:C6:142:TYR:HE2	1.74	0.52
51:S5:43:PHE:HE2	51:S5:130:ILE:HD13	1.75	0.52
63:C7:50:ILE:O	63:C7:54:THR:HG22	2.09	0.52
1:5:787:G:H2'	1:5:788:C:H6	1.75	0.52
1:5:2412:G:H2'	1:5:2413:A:H8	1.75	0.52
7:l5:21:ARG:O	7:l5:25:GLU:HG2	2.10	0.52
14:m3:4:SER:OG	14:m3:5:LYS:HG2	2.09	0.52
22:n1:101:CYS:SG	22:n1:102:ARG:N	2.83	0.52
81:n4:112:ASN:O	81:n4:116:LYS:N	2.42	0.52
44:q3:46:THR:OG1	44:q3:57:CYS:SG	2.66	0.52
45:6:145:A:O2'	45:6:146:U:OP1	2.24	0.52
45:6:1483:A:H2'	45:6:1484:G:C8	2.45	0.52
46:s0:22:THR:HA	46:s0:163:ASN:HB2	1.91	0.52
48:s2:71:THR:O	48:s2:74:PRO:HD3	2.09	0.52
50:s4:22:LYS:HG3	50:s4:23:LEU:HD13	1.91	0.52
72:d6:22:ARG:HG3	72:d6:22:ARG:NH1	2.24	0.52
78:sR:255:ALA:HB2	78:sR:292:LEU:HD21	1.90	0.52
1:1:398:A:H5''	18:M7:3:ARG:HD2	1.92	0.52
1:1:3037:U:H2'	1:1:3038:U:H6	1.74	0.52
1:1:3159:C:H2'	1:1:3160:U:C6	2.45	0.52
1:1:3166:C:H2'	1:1:3167:A:C8	2.44	0.52
2:3:39:C:N3	13:M1:70:THR:HG23	2.25	0.52
3:4:65:A:OP2	85:4:224:LLL:N12	2.42	0.52
13:M1:143:ARG:HG2	13:M1:144:CYS:SG	2.49	0.52
34:O3:73:ARG:HD3	34:O3:82:ARG:HD2	1.91	0.52
43:Q2:3:ASN:HA	43:Q2:92:GLU:O	2.09	0.52
45:2:1:U:C5	55:S9:54:ARG:HG3	2.44	0.52
45:2:354:C:H5''	54:S8:16:ALA:HB2	1.91	0.52
45:2:1253:U:H4'	77:E1:143:LYS:N	2.25	0.52
45:2:1481:C:O2'	45:2:1482:C:O5'	2.26	0.52
45:2:1525:A:H2'	45:2:1526:A:C8	2.44	0.52
48:S2:227:PRO:HA	48:S2:230:TRP:CG	2.45	0.52
51:S5:117:THR:HG22	51:S5:121:ILE:HD11	1.92	0.52
76:E0:43:ARG:NH1	76:E0:56:MET:SD	2.83	0.52
1:5:90:C:C2'	1:5:91:G:H5'	2.39	0.52
1:5:251:G:N2	1:5:253:A:N1	2.57	0.52
1:5:852:U:H2'	1:5:853:G:C8	2.44	0.52
1:5:2997:G:H1'	1:5:3396:U:H5'	1.91	0.52
3:8:38:U:O4	36:o5:89:ARG:HD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:m3:79:GLU:HG2	14:m3:109:PHE:CD2	2.45	0.52
24:n3:54:LEU:HD23	24:n3:121:GLU:HB2	1.91	0.52
81:n4:47:ARG:HD3	81:n4:58:HIS:CD2	2.45	0.52
32:o1:81:GLU:O	32:o1:82:GLU:HG2	2.10	0.52
45:6:223:U:H2'	45:6:224:C:C6	2.44	0.52
45:6:653:C:H42	45:6:677:G:H1	1.57	0.52
45:6:789:A:H3'	45:6:790:U:H6	1.74	0.52
45:6:1648:A:H2'	45:6:1649:G:C8	2.45	0.52
48:s2:67:GLN:HA	48:s2:70:ASP:HB2	1.91	0.52
56:c0:29:GLN:HG3	56:c0:29:GLN:O	2.10	0.52
65:c9:28:LEU:O	65:c9:29:GLU:HB3	2.09	0.52
65:c9:63:ARG:HG2	65:c9:67:MET:HE2	1.92	0.52
65:c9:111:ILE:HB	65:c9:113:ILE:HG12	1.91	0.52
1:1:371:G:N2	1:1:373:A:H3'	2.24	0.52
4:L2:182:ALA:HB1	4:L2:196:TRP:HH2	1.75	0.52
11:L9:109:ALA:HB1	11:L9:111:PHE:CZ	2.45	0.52
14:M3:105:ASN:HB3	14:M3:108:ILE:HB	1.92	0.52
15:M4:36:VAL:HG11	15:M4:55:ARG:NH2	2.25	0.52
16:M5:185:ALA:HB3	16:M5:190:THR:HG23	1.91	0.52
16:M5:190:THR:O	16:M5:194:GLN:HG2	2.10	0.52
54:S8:106:ALA:O	54:S8:110:ARG:N	2.42	0.52
66:D0:28:SER:HB2	66:D0:112:VAL:HA	1.91	0.52
69:D3:92:CYS:HA	69:D3:95:PHE:CD2	2.45	0.52
1:5:3048:A:C5'	5:l3:53:MET:HE3	2.39	0.52
1:5:3215:A:O5'	15:m4:121:MET:HE1	2.10	0.52
4:l2:112:ILE:HD11	44:q3:79:VAL:HG13	1.91	0.52
6:l4:144:LYS:O	6:l4:145:ILE:HG12	2.09	0.52
10:l8:153:ILE:HG23	10:l8:197:VAL:HG12	1.92	0.52
12:m0:72:ALA:O	12:m0:76:MET:HG2	2.10	0.52
18:m7:27:LYS:HD3	18:m7:63:PHE:HB3	1.92	0.52
27:n6:120:GLN:HE22	27:n6:126:LEU:HD23	1.74	0.52
45:6:1092:A:H5'	85:6:2169:LLL:H23	1.90	0.52
45:6:1455:G:OP1	61:c5:122:THR:HG21	2.09	0.52
45:6:1736:G:N7	85:6:2171:LLL:N12	2.57	0.52
85:6:2168:LLL:H21	85:6:2168:LLL:O52	2.10	0.52
49:s3:12:VAL:HG21	75:d9:34:TYR:HB3	1.90	0.52
69:d3:130:VAL:O	69:d3:131:SER:HB3	2.09	0.52
1:1:264:G:H5''	37:O6:36:ARG:CZ	2.39	0.52
1:1:269:G:H5''	16:M5:14:LYS:HE2	1.91	0.52
1:1:770:G:OP1	14:M3:171:ARG:HD3	2.10	0.52
1:1:810:A:H2'	1:1:811:U:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1137:C:H2'	1:1:1138:U:O4'	2.10	0.52
1:1:1191:U:H3'	41:Q0:113:ARG:NH2	2.24	0.52
1:1:2663:G:C5'	7:L5:152:ARG:HD3	2.40	0.52
3:4:49:G:H4'	36:O5:35:LYS:HE3	1.92	0.52
10:L8:237:ILE:HG22	10:L8:238:LEU:O	2.10	0.52
16:M5:35:VAL:HG13	16:M5:65:ARG:HB2	1.91	0.52
18:M7:60:PHE:CE2	18:M7:82:ARG:HB2	2.44	0.52
29:N8:75:LEU:HB3	29:N8:118:ILE:HG23	1.92	0.52
31:O0:13:LYS:O	31:O0:17:VAL:HG23	2.09	0.52
45:2:2:A:H5'	45:2:370:A:H5'	1.91	0.52
45:2:736:C:H42	45:2:737:A:N6	2.08	0.52
45:2:900:A:H4'	45:2:916:U:H1'	1.92	0.52
45:2:1583:A:N1	45:2:1611:A:H5''	2.25	0.52
45:2:1727:G:H2'	45:2:1728:A:C8	2.45	0.52
46:S0:179:ARG:O	46:S0:183:ARG:HG3	2.10	0.52
47:S1:172:LEU:O	47:S1:176:VAL:HG23	2.10	0.52
51:S5:57:SER:HB3	74:D8:53:ILE:HB	1.91	0.52
59:C3:91:LEU:HD12	59:C3:125:LEU:HD12	1.92	0.52
62:C6:113:ASP:CG	62:C6:115:THR:H	2.17	0.52
63:C7:33:ARG:HH12	78:SR:66:HIS:HE2	1.56	0.52
1:5:980:A:H2'	1:5:981:U:O4'	2.09	0.52
1:5:1811:G:H2'	1:5:1812:G:O4'	2.10	0.52
1:5:2179:C:N3	4:l2:172:GLY:O	2.43	0.52
1:5:2662:G:H2'	1:5:2663:G:H8	1.74	0.52
1:5:3045:G:H4'	5:l3:16:PHE:CD1	2.45	0.52
1:5:3195:U:O2	1:5:3195:U:H2'	2.10	0.52
4:l2:108:PRO:HG2	44:q3:86:LEU:HD13	1.91	0.52
7:l5:195:LEU:O	7:l5:199:ILE:HG13	2.09	0.52
8:l6:68:PRO:HG2	8:l6:71:VAL:HG23	1.92	0.52
9:l7:110:ARG:CZ	19:m8:3:ILE:HD12	2.39	0.52
15:m4:32:LEU:HD11	15:m4:94:TRP:CG	2.45	0.52
34:o3:8:TYR:HB3	34:o3:101:PHE:CD1	2.44	0.52
35:o4:7:PHE:CE1	35:o4:20:ILE:HG13	2.45	0.52
45:6:1492:A:H1'	45:6:1493:A:H5'	1.91	0.52
46:s0:52:LYS:NZ	67:d1:82:VAL:O	2.43	0.52
47:s1:33:LYS:NZ	47:s1:234:GLU:HA	2.25	0.52
52:s6:48:TYR:OH	52:s6:119:GLN:O	2.23	0.52
57:c1:99:ARG:HD3	69:d3:8:GLY:O	2.10	0.52
64:c8:86:LEU:HG	64:c8:99:HIS:HB2	1.92	0.52
68:d2:23:ARG:HH12	68:d2:66:ASN:HA	1.74	0.52
72:d6:11:ASN:O	72:d6:33:ASP:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:d9:4:GLU:N	75:d9:7:TRP:NE1	2.58	0.52
77:e1:84:VAL:HG22	77:e1:85:TYR:CE1	2.45	0.52
1:1:953:G:H1'	1:1:1115:G:H5''	1.91	0.52
1:1:1580:A:N6	26:N5:33:ARG:HG2	2.25	0.52
1:1:1758:G:H2'	1:1:1759:C:O4'	2.10	0.52
6:L4:138:ARG:HE	6:L4:240:PRO:HD2	1.74	0.52
9:L7:151:ARG:NH1	9:L7:244:ASN:HA	2.25	0.52
12:M0:140:THR:OG1	12:M0:144:ASN:HB3	2.10	0.52
16:M5:15:GLN:O	16:M5:20:ARG:HD2	2.10	0.52
16:M5:28:TRP:O	16:M5:32:GLN:HG2	2.09	0.52
17:M6:39:GLU:HG2	17:M6:40:GLU:N	2.24	0.52
21:N0:42:TRP:O	21:N0:46:GLN:HG3	2.10	0.52
25:N4:30:ARG:NH2	87:N4:301:HOH:O	2.34	0.52
45:2:72:A:OP1	45:2:72:A:H4'	2.09	0.52
45:2:1451:C:H2'	45:2:1452:U:C6	2.45	0.52
45:2:1606:C:H2'	45:2:1607:G:C8	2.45	0.52
45:2:1625:C:OP1	48:S2:91:ARG:NH2	2.42	0.52
50:S4:62:LYS:HG3	50:S4:66:MET:HG2	1.92	0.52
53:S7:170:GLN:HA	53:S7:181:ILE:HG22	1.90	0.52
63:C7:84:TYR:CG	63:C7:84:TYR:O	2.63	0.52
74:D8:19:THR:HG23	74:D8:27:GLN:HE21	1.73	0.52
1:5:1445:U:H5''	1:5:1446:A:OP2	2.10	0.52
1:5:1510:G:OP2	87:5:4276:HOH:O	2.19	0.52
1:5:1677:G:HO2'	1:5:1756:C:HO2'	1.54	0.52
1:5:1856:C:H2'	1:5:1857:C:C6	2.45	0.52
1:5:2534:G:N2	1:5:2546:C:O2	2.42	0.52
1:5:3287:U:C2'	1:5:3288:G:H5'	2.40	0.52
13:m1:88:GLU:HB3	61:c5:10:ARG:HA	1.90	0.52
26:n5:115:ARG:NH1	26:n5:119:THR:OG1	2.43	0.52
34:o3:71:VAL:HG13	34:o3:81:VAL:HG13	1.92	0.52
45:6:151:G:N2	45:6:163:G:N2	2.57	0.52
45:6:187:G:N7	54:s8:142:LYS:NZ	2.47	0.52
45:6:844:A:H2'	45:6:845:G:C8	2.45	0.52
85:6:2167:LLL:H23	47:s1:162:ARG:NH1	2.25	0.52
51:s5:202:ALA:O	51:s5:203:LYS:HE2	2.10	0.52
71:d5:44:GLN:HA	71:d5:47:TYR:HB3	1.91	0.52
71:d5:49:ARG:NH2	71:d5:53:GLU:OE1	2.43	0.52
73:d7:32:PHE:CE1	73:d7:47:PHE:HB2	2.45	0.52
1:1:156:G:O2'	1:1:157:A:H4'	2.09	0.52
1:1:236:G:H2'	1:1:237:G:O4'	2.11	0.52
1:1:576:C:OP1	9:L7:241:LYS:NZ	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:829:U:H3	1:1:895:A:N6	2.04	0.52
1:1:1064:A:H5''	1:1:1066:G:O4'	2.09	0.52
1:1:3058:U:OP1	32:O1:28:ARG:NH2	2.42	0.52
8:L6:96:VAL:HG12	8:L6:98:VAL:HG23	1.92	0.52
11:L9:111:PHE:HD1	11:L9:127:PRO:HA	1.74	0.52
14:M3:2:ALA:HB2	29:N8:31:GLY:O	2.10	0.52
22:N1:54:HIS:CD2	22:N1:56:PHE:H	2.28	0.52
26:N5:56:ARG:O	26:N5:61:LYS:HD2	2.09	0.52
28:N7:83:THR:HG23	28:N7:85:TYR:N	2.25	0.52
28:N7:108:GLU:O	28:N7:112:LYS:HG3	2.10	0.52
47:S1:46:THR:HG22	47:S1:47:LEU:H	1.75	0.52
50:S4:191:ARG:HH11	50:S4:245:LYS:HD3	1.75	0.52
54:S8:36:THR:OG1	54:S8:96:LEU:HB2	2.10	0.52
56:C0:14:TYR:CD1	56:C0:35:ILE:HG12	2.45	0.52
58:C2:97:LEU:HD11	58:C2:121:VAL:HG22	1.91	0.52
78:SR:17:ASN:O	78:SR:308:ASN:ND2	2.43	0.52
1:5:1318:A:OP1	17:m6:18:ARG:NH2	2.43	0.52
1:5:1505:C:OP1	18:m7:23:ARG:NH2	2.43	0.52
1:5:2256:A:O2'	1:5:2257:C:OP2	2.27	0.52
1:5:2533:G:H2'	1:5:2534:G:C8	2.45	0.52
5:l3:140:ASP:OD2	5:l3:141:GLY:N	2.43	0.52
7:l5:160:PHE:CD2	7:l5:179:ARG:HB3	2.44	0.52
12:m0:220:GLN:H	12:m0:220:GLN:CD	2.18	0.52
16:m5:35:VAL:O	16:m5:64:VAL:HA	2.10	0.52
18:m7:141:SER:O	18:m7:143:PRO:HD3	2.10	0.52
21:n0:81:TYR:CE1	21:n0:90:MET:HE3	2.45	0.52
45:6:246:G:N3	57:c1:40:LEU:HD13	2.25	0.52
45:6:542:A:O2'	45:6:543:C:O5'	2.26	0.52
45:6:1500:C:OP1	65:c9:122:ARG:NH2	2.40	0.52
50:s4:85:GLY:O	50:s4:101:LEU:HB2	2.10	0.52
50:s4:158:ASP:HB3	50:s4:173:ILE:O	2.10	0.52
58:c2:123:VAL:HG11	58:c2:126:TRP:HB3	1.92	0.52
1:1:372:A:H2'	1:1:373:A:H8	1.75	0.51
1:1:609:G:OP2	6:L4:315:LYS:HE3	2.10	0.51
1:1:2737:C:H4'	22:N1:68:THR:OG1	2.10	0.51
9:L7:102:VAL:HG13	9:L7:126:LEU:HD22	1.93	0.51
34:O3:16:TYR:CZ	34:O3:91:ALA:HB2	2.45	0.51
45:2:393:C:H2'	45:2:394:C:C6	2.45	0.51
45:2:1202:A:N6	45:2:1457:C:H5''	2.25	0.51
45:2:1428:G:H5'	45:2:1428:G:H8	1.75	0.51
48:S2:89:GLN:OE1	48:S2:94:GLN:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:S3:35:SER:HB3	49:S3:91:VAL:HG21	1.92	0.51
50:S4:241:GLY:O	50:S4:244:ILE:HG12	2.09	0.51
53:S7:78:THR:HG22	53:S7:90:VAL:HG12	1.91	0.51
53:S7:172:VAL:O	53:S7:176:LEU:HG	2.10	0.51
58:C2:63:VAL:HG22	58:C2:64:SER:H	1.75	0.51
65:C9:69:LYS:HB3	65:C9:70:GLN:OE1	2.10	0.51
66:D0:23:ARG:HD2	66:D0:90:TYR:CD1	2.45	0.51
72:D6:75:VAL:HA	72:D6:78:ALA:HB3	1.92	0.51
78:SR:165:ASP:O	78:SR:184:ASN:ND2	2.42	0.51
1:5:158:G:N2	1:5:264:G:H1'	2.25	0.51
1:5:250:U:H2'	1:5:251:G:N3	2.24	0.51
1:5:537:A:H2'	1:5:538:G:O4'	2.10	0.51
1:5:1259:A:C6	1:5:1260:A:N1	2.78	0.51
1:5:2536:A:H4'	47:s1:226:GLY:HA2	1.93	0.51
19:m8:64:VAL:HG22	19:m8:96:PHE:CE2	2.45	0.51
28:n7:100:THR:HG22	28:n7:106:GLN:HB3	1.92	0.51
31:o0:45:ALA:HA	31:o0:70:PHE:HB3	1.91	0.51
43:q2:73:GLU:OE1	43:q2:80:ARG:NH1	2.42	0.51
45:6:461:G:H2'	45:6:462:G:C8	2.45	0.51
45:6:828:U:H3'	45:6:828:U:H6	1.75	0.51
45:6:1274:C:H4'	45:6:1275:A:O5'	2.10	0.51
46:s0:10:THR:OG1	46:s0:13:ASP:OD2	2.26	0.51
50:s4:23:LEU:HD21	55:s9:6:ARG:HD3	1.93	0.51
53:s7:14:THR:HG22	53:s7:17:GLU:HG3	1.92	0.51
57:c1:45:PRO:HD2	57:c1:60:PHE:CZ	2.45	0.51
62:c6:87:LYS:HG3	62:c6:117:LEU:HA	1.92	0.51
62:c6:97:VAL:HG13	62:c6:98:ASP:H	1.75	0.51
70:d4:52:LYS:O	70:d4:54:ALA:N	2.42	0.51
70:d4:62:THR:HA	70:d4:69:SER:HA	1.92	0.51
70:d4:105:ARG:HG2	70:d4:109:LYS:HE3	1.92	0.51
1:1:595:G:H1	1:1:609:G:H5''	1.74	0.51
1:1:675:C:O2'	1:1:679:U:OP1	2.25	0.51
1:1:1523:U:C6	26:N5:123:TYR:HE2	2.28	0.51
1:1:2203:U:H2'	1:1:2204:C:H6	1.76	0.51
1:1:2916:U:H1'	24:N3:44:SER:HB3	1.92	0.51
1:1:2946:A:OP1	87:1:4173:HOH:O	2.19	0.51
1:1:3387:U:H2'	1:1:3388:C:C6	2.45	0.51
5:L3:160:VAL:HG21	5:L3:194:TRP:HZ3	1.75	0.51
6:L4:77:VAL:HB	6:L4:85:SER:HA	1.92	0.51
11:L9:31:ARG:HG2	11:L9:149:ASN:HD21	1.74	0.51
28:N7:46:ILE:HD11	28:N7:49:TYR:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:O5:92:LEU:HB3	36:O5:96:GLU:O	2.10	0.51
37:O6:51:SER:O	37:O6:54:GLU:N	2.36	0.51
45:2:180:A:H2'	45:2:181:A:O4'	2.11	0.51
45:2:1120:U:H2'	45:2:1121:C:C6	2.45	0.51
49:S3:11:LEU:HD12	66:D0:86:ILE:HD13	1.92	0.51
55:S9:134:ILE:O	55:S9:159:ALA:HB2	2.10	0.51
60:C4:127:ARG:HG3	72:D6:22:ARG:HH12	1.75	0.51
61:C5:77:ARG:HB3	61:C5:102:PHE:CD1	2.46	0.51
61:C5:115:TYR:N	61:C5:118:GLU:OE1	2.32	0.51
63:C7:65:PRO:HB3	63:C7:74:GLN:OE1	2.10	0.51
63:C7:87:GLU:O	63:C7:87:GLU:HG2	2.09	0.51
66:D0:27:THR:HG22	66:D0:88:LYS:HG2	1.93	0.51
1:5:519:A:OP1	21:n0:62:ASN:ND2	2.39	0.51
1:5:665:A:H2'	1:5:666:A:H8	1.73	0.51
1:5:2192:C:O2'	1:5:2312:A:N1	2.37	0.51
1:5:2617:U:H3'	30:n9:3:LYS:HD3	1.92	0.51
1:5:3245:A:H2	1:5:3246:G:C2	2.28	0.51
2:7:77:G:H5''	21:n0:46:GLN:O	2.10	0.51
10:l8:238:LEU:H	10:l8:238:LEU:HD12	1.75	0.51
16:m5:149:ASN:O	16:m5:152:CYS:HB2	2.09	0.51
45:6:600:U:OP2	69:d3:108:GLY:HA2	2.10	0.51
47:s1:26:ARG:HG2	47:s1:50:LYS:H	1.75	0.51
47:s1:61:LEU:O	47:s1:64:ARG:HD2	2.10	0.51
51:s5:41:LYS:NZ	62:c6:112:TYR:OH	2.43	0.51
51:s5:91:GLU:O	51:s5:95:ASN:ND2	2.43	0.51
54:s8:100:ALA:HB3	54:s8:169:ILE:HG12	1.92	0.51
55:s9:53:ARG:HH22	55:s9:57:ARG:HH12	1.58	0.51
70:d4:55:VAL:HG12	70:d4:75:VAL:HG22	1.92	0.51
1:1:1588:A:C5	40:O9:4:GLN:HG2	2.45	0.51
1:1:3043:C:OP2	24:N3:48:ARG:NH2	2.44	0.51
2:3:17:A:OP1	7:L5:2:ALA:N	2.43	0.51
2:3:22:A:H2'	2:3:23:A:H8	1.76	0.51
5:L3:67:PHE:O	5:L3:70:ARG:HB2	2.11	0.51
8:L6:58:LEU:HD21	8:L6:64:LEU:HB2	1.92	0.51
45:2:323:A:OP2	54:S8:10:LYS:HG3	2.10	0.51
45:2:1278:G:OP1	49:S3:185:LYS:HE2	2.09	0.51
45:2:1385:G:H2'	45:2:1386:G:C8	2.45	0.51
48:S2:101:VAL:HG22	48:S2:115:ILE:HG23	1.92	0.51
49:S3:101:GLN:HA	49:S3:104:SER:HB3	1.93	0.51
55:S9:173:ALA:O	55:S9:177:ALA:N	2.42	0.51
1:5:311:C:H2'	1:5:312:C:H6	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1329:U:O2'	1:5:1330:A:H5''	2.11	0.51
1:5:2948:C:O2'	5:l3:242:THR:HA	2.10	0.51
1:5:3335:A:H5'	1:5:3335:A:H8	1.74	0.51
1:5:3354:U:O4	54:s8:110:ARG:NH2	2.44	0.51
2:7:2:G:H4'	7:l5:270:LYS:HD3	1.93	0.51
3:8:41:A:H61	3:8:103:G:C2'	2.23	0.51
5:l3:3:HIS:O	5:l3:3:HIS:CG	2.63	0.51
11:l9:20:ILE:HG23	11:l9:25:VAL:HG22	1.91	0.51
13:m1:98:ALA:HA	13:m1:156:LYS:HB2	1.92	0.51
17:m6:108:ILE:CD1	17:m6:117:ARG:HD3	2.39	0.51
26:n5:82:LEU:HD12	26:n5:126:LEU:HD21	1.91	0.51
29:n8:104:THR:HG21	29:n8:112:ILE:HD11	1.92	0.51
37:o6:83:ALA:O	37:o6:87:VAL:HG23	2.09	0.51
45:6:78:A:H1'	52:s6:175:ILE:HG12	1.92	0.51
45:6:138:A:N6	45:6:139:C:H41	2.08	0.51
53:s7:73:VAL:C	53:s7:75:THR:H	2.15	0.51
54:s8:21:PHE:CD1	54:s8:22:ARG:HD3	2.45	0.51
55:s9:53:ARG:NH2	55:s9:57:ARG:HH12	2.08	0.51
58:c2:42:ALA:HB1	58:c2:47:GLU:HB3	1.92	0.51
63:c7:31:ASN:ND2	63:c7:55:THR:HG22	2.25	0.51
1:1:337:G:H21	6:L4:50:TYR:HB3	1.75	0.51
1:1:1162:U:H4'	33:O2:57:TYR:CE1	2.45	0.51
1:1:1613:A:OP1	39:O8:2:ALA:N	2.43	0.51
1:1:1686:U:O2	1:1:1688:U:H1'	2.10	0.51
1:1:3132:C:H2'	1:1:3133:C:H6	1.75	0.51
5:L3:114:VAL:HG13	5:L3:163:HIS:CG	2.45	0.51
7:L5:143:LYS:HA	7:L5:172:TYR:HB3	1.92	0.51
12:M0:169:LYS:HB2	22:N1:159:PHE:HA	1.93	0.51
20:M9:119:LEU:O	20:M9:123:LEU:HG	2.10	0.51
27:N6:56:VAL:HG22	27:N6:104:LEU:HB3	1.92	0.51
36:O5:47:VAL:O	36:O5:51:ILE:HG13	2.11	0.51
37:O6:33:ALA:O	37:O6:37:THR:OG1	2.29	0.51
45:2:1152:A:O2'	72:D6:85:ARG:HB3	2.10	0.51
45:2:1629:G:H2'	45:2:1630:U:C6	2.44	0.51
45:2:1767:G:N2	45:2:1768:G:O6	2.44	0.51
58:C2:103:LEU:HG	58:C2:116:VAL:HG22	1.93	0.51
79:SM:113:ASP:OD1	79:SM:113:ASP:N	2.44	0.51
1:5:291:C:OP1	16:m5:68:ARG:HG3	2.11	0.51
1:5:1107:C:OP1	30:n9:25:LYS:NZ	2.26	0.51
1:5:1764:U:H3'	1:5:1765:U:H4'	1.92	0.51
1:5:2656:A:H4'	43:q2:98:LYS:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l4:63:GLU:O	6:l4:64:SER:C	2.51	0.51
7:l5:183:TRP:HZ3	7:l5:185:PHE:HA	1.76	0.51
37:o6:86:LYS:O	37:o6:90:MET:HB2	2.10	0.51
45:6:338:C:H2'	45:6:339:C:C6	2.41	0.51
45:6:1041:G:OP1	46:s0:31:VAL:HG13	2.10	0.51
45:6:1490:C:C4	45:6:1492:A:C5	2.99	0.51
46:s0:124:THR:O	46:s0:146:LEU:HB2	2.11	0.51
47:s1:84:ILE:HD13	47:s1:103:MET:HG3	1.91	0.51
62:c6:40:GLU:O	62:c6:42:GLU:N	2.43	0.51
63:c7:107:SER:O	63:c7:111:LYS:HB2	2.10	0.51
70:d4:56:SER:O	70:d4:74:LEU:N	2.38	0.51
1:l1:73:C:C2	37:O6:15:LYS:HG2	2.45	0.51
1:l1:651:G:O2'	1:l1:1435:A:OP1	2.28	0.51
1:l1:761:A:C2	1:l1:771:A:H1'	2.46	0.51
1:l1:2767:U:OP1	43:Q2:34:SER:HB3	2.11	0.51
13:M1:18:VAL:HG22	13:M1:70:THR:HG22	1.93	0.51
18:M7:22:LEU:HB3	18:M7:90:PHE:CE2	2.46	0.51
18:M7:51:VAL:HG11	18:M7:88:VAL:HG21	1.92	0.51
20:M9:168:ALA:HB1	20:M9:172:ARG:NH1	2.26	0.51
45:2:386:G:OP1	54:S8:25:ARG:NH2	2.43	0.51
47:S1:185:THR:O	47:S1:189:ILE:HG13	2.10	0.51
55:S9:109:LEU:HB3	55:S9:146:PHE:HB3	1.92	0.51
61:C5:114:HIS:ND1	61:C5:118:GLU:OE2	2.44	0.51
64:C8:41:ARG:NE	65:C9:46:PRO:HD3	2.25	0.51
66:D0:106:ILE:HG13	66:D0:107:THR:H	1.76	0.51
70:D4:57:VAL:HG22	70:D4:60:PHE:CE2	2.46	0.51
71:D5:89:ILE:HB	71:D5:101:TYR:CG	2.46	0.51
1:5:22:G:H1'	3:8:104:A:N3	2.26	0.51
1:5:1711:C:H2'	1:5:1712:G:O4'	2.10	0.51
1:5:2102:U:H2'	1:5:2103:U:C6	2.46	0.51
1:5:2392:C:HO2'	5:l3:266:ARG:HH22	1.54	0.51
1:5:2568:C:N4	1:5:2570:U:H1'	2.26	0.51
1:5:3212:C:H2'	1:5:3213:A:O4'	2.10	0.51
6:l4:311:HIS:CE1	6:l4:314:LYS:HA	2.46	0.51
19:m8:165:ILE:HD11	19:m8:173:GLU:CD	2.36	0.51
21:n0:82:ASP:OD1	21:n0:87:THR:HB	2.10	0.51
29:n8:74:ASN:HB3	29:n8:76:ASP:H	1.75	0.51
32:o1:44:MET:HB2	32:o1:46:THR:HG22	1.92	0.51
36:o5:39:PRO:O	36:o5:40:SER:HB3	2.11	0.51
45:6:978:A:H2'	45:6:979:A:O4'	2.11	0.51
45:6:1058:U:H4'	45:6:1059:U:OP1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:s0:147:THR:O	46:s0:161:PRO:HA	2.11	0.51
51:s5:164:PRO:HG3	74:d8:52:ASP:HB2	1.93	0.51
62:c6:45:ARG:O	62:c6:48:VAL:HG12	2.10	0.51
62:c6:106:LYS:HG2	62:c6:117:LEU:HD11	1.93	0.51
72:d6:20:PRO:HA	72:d6:31:PRO:HA	1.92	0.51
1:1:600:G:OP2	1:1:600:G:H8	1.94	0.51
6:L4:22:LEU:HD23	6:L4:23:PRO:HD2	1.92	0.51
6:L4:140:HIS:HA	6:L4:177:ASP:OD1	2.10	0.51
20:M9:81:ARG:HG2	20:M9:88:ARG:CZ	2.40	0.51
22:N1:14:MET:HE1	22:N1:55:LYS:CB	2.37	0.51
37:O6:74:LYS:HD2	37:O6:80:PHE:CD2	2.40	0.51
45:2:16:G:H2'	45:2:17:C:C6	2.45	0.51
45:2:1102:G:OP2	69:D3:7:ARG:NH1	2.44	0.51
45:2:1200:G:H4'	45:2:1201:G:C5'	2.40	0.51
45:2:1535:U:H1'	45:2:1536:G:C2	2.44	0.51
45:2:1584:G:H22	45:2:1611:A:P	2.33	0.51
47:S1:165:ARG:O	47:S1:169:SER:OG	2.20	0.51
49:S3:132:LYS:HB3	49:S3:189:MET:HG3	1.92	0.51
52:S6:64:LYS:HZ3	52:S6:64:LYS:HB2	1.76	0.51
57:C1:14:GLN:HB3	57:C1:54:ILE:HG12	1.93	0.51
60:C4:16:VAL:HG22	60:C4:18:ARG:HG3	1.93	0.51
73:D7:49:HIS:CE1	73:D7:70:LYS:HG2	2.46	0.51
1:5:1024:G:H3'	1:5:1024:G:N3	2.26	0.51
1:5:1139:G:O3'	9:l7:94:LYS:HA	2.11	0.51
1:5:1738:C:O3'	35:o4:53:GLY:HA2	2.11	0.51
1:5:1758:G:H5'	23:n2:104:ARG:HH22	1.75	0.51
1:5:1806:A:H2'	1:5:1807:G:O4'	2.10	0.51
1:5:2228:A:H2'	1:5:2229:A:H8	1.73	0.51
1:5:2266:U:H2'	1:5:2267:C:H6	1.76	0.51
12:m0:66:GLU:OE1	12:m0:69:ARG:NH2	2.39	0.51
14:m3:101:ARG:HH22	14:m3:112:ASN:HD21	1.58	0.51
14:m3:194:GLU:HA	14:m3:195:ALA:C	2.35	0.51
15:m4:13:ARG:NH1	15:m4:65:LEU:O	2.43	0.51
45:6:597:G:N7	85:6:2173:LLL:H412	2.26	0.51
45:6:1138:A:H2'	45:6:1139:A:H8	1.76	0.51
45:6:1379:C:H5'	62:c6:10:PHE:CE2	2.46	0.51
45:6:1796:C:C6	72:d6:7:SER:HB3	2.46	0.51
47:s1:33:LYS:HE2	47:s1:41:ARG:NH1	2.22	0.51
50:s4:161:LYS:HB3	50:s4:170:THR:O	2.11	0.51
50:s4:214:LEU:HD13	50:s4:244:ILE:HD11	1.92	0.51
51:s5:42:LEU:HB3	51:s5:45:LYS:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:c1:101:GLU:OE1	69:d3:13:ARG:NH2	2.44	0.51
59:c3:55:ARG:HA	59:c3:59:GLY:O	2.10	0.51
67:d1:3:ASN:CG	67:d1:4:ASP:N	2.68	0.51
1:1:19:U:H2'	1:1:20:A:C8	2.46	0.51
1:1:160:G:H2'	1:1:161:G:O4'	2.11	0.51
1:1:439:C:H5'	1:1:440:A:OP2	2.11	0.51
1:1:516:A:O3'	9:L7:60:ARG:NH2	2.42	0.51
1:1:796:U:H2'	1:1:797:U:C6	2.45	0.51
1:1:807:A:H61	1:1:934:G:H22	1.58	0.51
1:1:2523:A:H5''	10:L8:51:LYS:HD2	1.93	0.51
1:1:2611:U:H2'	1:1:2612:U:C6	2.46	0.51
1:1:3024:A:H3'	1:1:3025:C:H6	1.76	0.51
2:3:27:A:OP2	7:L5:57:ASN:HB2	2.11	0.51
6:L4:302:ALA:HB2	19:M8:39:ARG:NH2	2.26	0.51
15:M4:21:VAL:HA	15:M4:66:THR:HG23	1.91	0.51
17:M6:55:HIS:HA	17:M6:58:LEU:HB2	1.91	0.51
45:2:262:U:H2'	45:2:263:C:C6	2.45	0.51
45:2:343:C:H2'	45:2:344:A:C8	2.45	0.51
45:2:427:C:H2'	45:2:428:A:O4'	2.11	0.51
45:2:698:U:H2'	45:2:699:U:C6	2.45	0.51
45:2:811:A:C2	45:2:858:G:H1'	2.45	0.51
45:2:1486:G:H1'	45:2:1592:A:O2'	2.10	0.51
45:2:1562:G:H2'	45:2:1563:C:H6	1.76	0.51
69:D3:57:LEU:HD12	69:D3:59:ILE:HD11	1.92	0.51
72:D6:52:ASP:OD1	72:D6:52:ASP:N	2.43	0.51
72:D6:84:VAL:O	72:D6:85:ARG:HD2	2.10	0.51
73:D7:36:LYS:HG2	73:D7:43:ILE:HG22	1.93	0.51
1:5:715:A:H8	29:n8:115:LYS:HG3	1.76	0.51
1:5:795:G:O2'	1:5:1111:U:H5''	2.10	0.51
1:5:1015:U:H2'	1:5:1017:C:P	2.51	0.51
1:5:1102:A:H4'	1:5:1103:A:C8	2.45	0.51
1:5:1767:C:H2'	1:5:1768:U:C6	2.44	0.51
1:5:1830:G:H5''	26:n5:92:LYS:HB2	1.92	0.51
1:5:3286:G:H2'	1:5:3287:U:O4'	2.11	0.51
11:l9:13:PRO:HD2	11:l9:79:ILE:HG21	1.93	0.51
13:m1:162:TRP:CZ2	13:m1:166:LYS:HD3	2.45	0.51
22:n1:12:ARG:HD3	22:n1:13:TYR:CE2	2.45	0.51
45:6:224:C:H42	45:6:837:G:H1	1.59	0.51
45:6:291:G:H2'	45:6:292:U:C6	2.45	0.51
45:6:961:U:H1'	59:c3:48:SER:OG	2.11	0.51
45:6:1542:G:H22	45:6:1568:C:H1'	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:143:ARG:HD2	74:d8:57:MET:SD	2.51	0.51
54:s8:62:THR:HB	54:s8:75:LYS:HE3	1.93	0.51
55:s9:30:LEU:HD22	55:s9:34:PHE:HE2	1.75	0.51
58:c2:113:ARG:O	58:c2:115:VAL:HG22	2.10	0.51
66:d0:101:LYS:O	66:d0:104:THR:OG1	2.28	0.51
68:d2:5:SER:O	68:d2:6:VAL:HG12	2.11	0.51
69:d3:70:LYS:HB3	69:d3:93:LEU:HD22	1.93	0.51
78:sR:115:ILE:HG13	78:sR:122:ILE:HG12	1.92	0.51
78:sR:242:SER:HB3	78:sR:292:LEU:HG	1.92	0.51
1:1:1038:C:H2'	1:1:1039:U:C6	2.46	0.51
7:L5:155:THR:HA	7:L5:179:ARG:HA	1.92	0.51
27:N6:56:VAL:O	27:N6:67:GLU:HB2	2.10	0.51
29:N8:45:MET:HE3	29:N8:49:HIS:HB2	1.93	0.51
33:O2:20:HIS:CG	33:O2:42:VAL:HG21	2.46	0.51
36:O5:20:GLN:O	36:O5:23:ASP:HB2	2.11	0.51
39:O8:11:PHE:HD1	39:O8:12:LEU:HD23	1.76	0.51
41:Q0:99:CYS:HB2	41:Q0:114:LYS:HD3	1.93	0.51
45:2:64:U:O2'	45:2:168:A:N3	2.34	0.51
45:2:872:G:H2'	45:2:873:U:O4'	2.11	0.51
45:2:899:G:H5'	60:C4:46:MET:HA	1.92	0.51
45:2:1045:C:H2'	45:2:1046:G:C8	2.45	0.51
45:2:1248:C:H2'	45:2:1249:U:H6	1.76	0.51
45:2:1758:U:H2'	45:2:1759:C:H6	1.76	0.51
46:S0:4:PRO:HB2	46:S0:6:THR:HG22	1.92	0.51
49:S3:76:ARG:HG3	56:C0:65:TYR:CE1	2.46	0.51
50:S4:42:LEU:HD22	50:S4:47:PHE:HB2	1.93	0.51
52:S6:122:GLU:O	52:S6:126:ASP:HB3	2.11	0.51
60:C4:16:VAL:O	60:C4:30:VAL:HA	2.11	0.51
70:D4:29:HIS:CE1	70:D4:67:GLY:H	2.28	0.51
74:D8:17:GLY:O	74:D8:27:GLN:N	2.37	0.51
1:5:1018:G:H2'	1:5:1019:G:O4'	2.10	0.51
1:5:1208:U:H4'	1:5:1209:G:OP1	2.11	0.51
1:5:1599:G:H1	1:5:1608:C:H42	1.59	0.51
1:5:2206:G:OP2	1:5:2206:G:H8	1.94	0.51
3:8:37:A:H5''	3:8:39:G:O4'	2.11	0.51
5:13:346:THR:O	5:13:348:ARG:N	2.44	0.51
9:l7:191:VAL:HG23	9:l7:192:GLY:N	2.26	0.51
13:m1:10:ARG:HH11	13:m1:133:ARG:HH21	1.58	0.51
28:n7:53:VAL:HA	28:n7:57:HIS:CD2	2.46	0.51
45:6:86:A:H2'	45:6:87:C:C6	2.46	0.51
45:6:802:G:H21	68:d2:107:SER:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s2:43:ARG:NH2	48:s2:249:ALA:HA	2.26	0.51
57:c1:14:GLN:HB3	57:c1:54:ILE:HG13	1.93	0.51
58:c2:52:LEU:HD12	58:c2:78:LEU:HB3	1.91	0.51
64:c8:73:MET:HG2	64:c8:101:LEU:HD21	1.92	0.51
1:1:104:G:O2'	1:1:698:U:O2	2.25	0.51
1:1:685:G:OP2	14:M3:35:ARG:NH1	2.43	0.51
1:1:1488:G:OP2	87:1:4174:HOH:O	2.19	0.51
1:1:2254:U:H2'	1:1:2261:G:N2	2.26	0.51
3:4:113:U:H5''	40:O9:7:PHE:HB3	1.93	0.51
7:L5:85:ARG:HD3	7:L5:86:TYR:CE2	2.46	0.51
26:N5:135:ILE:O	26:N5:139:ILE:HG23	2.11	0.51
35:O4:82:ALA:HA	35:O4:85:VAL:HB	1.92	0.51
43:Q2:10:THR:HG22	43:Q2:23:HIS:ND1	2.26	0.51
45:2:434:G:H5'	69:D3:78:LYS:HB3	1.92	0.51
45:2:600:U:OP2	69:D3:108:GLY:HA2	2.11	0.51
45:2:1656:U:O5'	45:2:1656:U:H6	1.94	0.51
45:2:1797:A:OP1	72:D6:95:ARG:NH2	2.44	0.51
46:S0:108:THR:HA	48:S2:64:LYS:HE3	1.93	0.51
46:S0:157:ASP:OD2	67:D1:65:SER:OG	2.20	0.51
47:S1:43:VAL:HG23	47:S1:44:GLY:H	1.75	0.51
48:S2:104:VAL:HG11	48:S2:129:ILE:HG23	1.93	0.51
51:S5:162:VAL:HG23	74:D8:45:LYS:HB3	1.93	0.51
61:C5:128:HIS:H	79:SM:71:ASN:ND2	2.07	0.51
69:D3:126:LYS:HG2	69:D3:131:SER:HA	1.91	0.51
78:SR:44:SER:O	78:SR:58:VAL:HG22	2.11	0.51
1:5:289:A:H2'	1:5:290:G:H8	1.75	0.51
1:5:548:G:H2'	1:5:549:U:O4'	2.10	0.51
1:5:1880:U:H2'	1:5:1881:A:C8	2.46	0.51
1:5:2174:G:H4'	1:5:2175:U:H5''	1.92	0.51
1:5:2736:A:O2'	22:n1:68:THR:HG21	2.10	0.51
4:l2:50:HIS:HB2	44:q3:51:ALA:HB1	1.93	0.51
12:m0:76:MET:SD	12:m0:148:VAL:HG22	2.50	0.51
80:m2:111:UNK:O	80:m2:115:UNK:N	2.44	0.51
28:n7:136:PHE:CE1	35:o4:89:ILE:HG12	2.46	0.51
38:o7:37:CYS:O	38:o7:45:ARG:N	2.41	0.51
39:o8:44:LYS:HG2	39:o8:53:THR:HB	1.92	0.51
45:6:87:C:O2'	45:6:169:A:N1	2.42	0.51
58:c2:63:VAL:HG12	58:c2:65:SER:H	1.76	0.51
61:c5:127:ARG:HG3	61:c5:130:ARG:NH2	2.26	0.51
64:c8:4:VAL:HG11	71:d5:82:HIS:ND1	2.26	0.51
66:d0:98:GLN:O	66:d0:102:ARG:N	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2355:G:H4'	18:M7:139:TYR:CE2	2.46	0.51
1:1:2510:U:O2'	1:1:2511:A:H5''	2.11	0.51
3:4:102:U:H2'	3:4:103:G:C8	2.46	0.51
14:M3:170:LEU:HA	37:O6:9:ILE:HD11	1.93	0.51
20:M9:103:ARG:HD2	20:M9:124:TYR:CE1	2.46	0.51
33:O2:19:ARG:HH11	33:O2:28:VAL:HG13	1.75	0.51
41:Q0:120:GLN:O	41:Q0:121:LEU:HD23	2.11	0.51
45:2:343:C:H2'	45:2:344:A:H8	1.75	0.51
45:2:511:A:H5'	55:S9:173:ALA:HB2	1.93	0.51
45:2:903:U:H5''	60:C4:135:ARG:NH2	2.26	0.51
45:2:1287:A:H4'	45:2:1288:G:OP1	2.11	0.51
45:2:1557:U:O2'	45:2:1558:U:H2'	2.11	0.51
49:S3:222:VAL:HG11	78:SR:229:LYS:HA	1.93	0.51
68:D2:18:GLU:HG3	68:D2:65:LEU:HD12	1.93	0.51
69:D3:91:GLY:C	69:D3:93:LEU:H	2.19	0.51
71:D5:75:LEU:HA	71:D5:78:ILE:HB	1.93	0.51
78:SR:59:ARG:HG2	78:SR:61:PHE:CE1	2.46	0.51
78:SR:170:ILE:HG21	78:SR:211:ILE:HD11	1.93	0.51
1:5:245:U:H2'	1:5:246:U:C6	2.46	0.51
1:5:1098:A:OP2	22:n1:130:ARG:HD3	2.11	0.51
1:5:1313:G:O3'	17:m6:17:GLY:HA3	2.10	0.51
1:5:2257:C:P	1:5:2257:C:H6	2.33	0.51
1:5:2344:U:H2'	1:5:2345:A:H8	1.76	0.51
2:7:115:G:OP1	85:7:233:LLL:N61	2.44	0.51
6:l4:329:PRO:C	6:l4:331:ALA:H	2.19	0.51
45:6:342:C:C2'	45:6:343:C:H5'	2.41	0.51
45:6:654:C:H2'	45:6:655:G:C8	2.46	0.51
45:6:964:U:H5''	59:c3:128:TYR:CE1	2.45	0.51
46:s0:74:VAL:CG2	46:s0:118:PRO:HB3	2.41	0.51
47:s1:96:LEU:HD13	47:s1:96:LEU:N	2.25	0.51
49:s3:91:VAL:HG23	49:s3:92:GLN:N	2.25	0.51
49:s3:101:GLN:HG3	49:s3:126:VAL:HG22	1.91	0.51
50:s4:176:ASP:O	50:s4:179:LYS:HG2	2.10	0.51
55:s9:142:ASN:O	55:s9:144:PRO:HD3	2.11	0.51
59:c3:21:ASN:O	59:c3:65:VAL:HG21	2.10	0.51
72:d6:9:GLY:O	72:d6:10:ARG:HD2	2.10	0.51
1:1:1807:G:H5''	28:N7:135:ARG:NH2	2.26	0.50
1:1:2228:A:H2'	1:1:2229:A:C8	2.46	0.50
2:3:12:U:OP2	2:3:68:C:O2'	2.28	0.50
2:3:92:A:H4'	12:M0:11:TYR:CE1	2.46	0.50
3:4:37:A:H5''	3:4:39:G:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:86:U:H2'	36:O5:7:TYR:HE2	1.76	0.50
11:L9:90:MET:HE1	11:L9:162:GLN:HB2	1.92	0.50
17:M6:7:VAL:HG11	21:N0:163:PHE:CE2	2.47	0.50
21:N0:46:GLN:HG2	21:N0:51:VAL:O	2.11	0.50
26:N5:98:ALA:O	26:N5:102:LEU:HB2	2.11	0.50
45:2:30:G:H5''	69:D3:131:SER:HB2	1.92	0.50
45:2:325:G:OP1	57:C1:134:THR:OG1	2.28	0.50
45:2:1125:A:C5	45:2:1126:G:H1'	2.45	0.50
45:2:1556:A:OP1	61:C5:115:TYR:OH	2.23	0.50
54:S8:9:HIS:CD2	54:S8:10:LYS:N	2.78	0.50
55:S9:93:LEU:O	55:S9:96:VAL:HG22	2.11	0.50
60:C4:19:ILE:HG12	60:C4:28:VAL:HG22	1.93	0.50
1:5:513:G:C5	1:5:579:G:C6	2.99	0.50
1:5:679:U:H2'	1:5:680:G:H8	1.75	0.50
1:5:2433:U:H1'	16:m5:125:SER:CB	2.40	0.50
10:l8:203:VAL:HG13	10:l8:204:ARG:N	2.25	0.50
80:m2:66:UNK:O	80:m2:69:UNK:N	2.44	0.50
18:m7:22:LEU:HD13	18:m7:90:PHE:HD2	1.76	0.50
19:m8:147:ARG:HG2	19:m8:149:ALA:H	1.76	0.50
19:m8:176:ARG:NH1	29:n8:46:ASP:OD2	2.45	0.50
24:n3:136:VAL:HG12	24:n3:137:VAL:HG23	1.93	0.50
34:o3:69:GLY:HA3	34:o3:85:PHE:HA	1.93	0.50
42:q1:21:ARG:HD2	45:6:1653:C:O3'	2.10	0.50
45:6:181:A:H2'	45:6:182:A:O4'	2.11	0.50
45:6:246:G:C6	45:6:247:A:C6	2.99	0.50
45:6:1096:C:H5	85:6:2166:LLL:N32	2.09	0.50
45:6:1160:A:H2'	45:6:1161:C:C6	2.46	0.50
45:6:1458:G:H5''	45:6:1459:C:OP2	2.11	0.50
50:s4:253:ASP:O	50:s4:257:ALA:N	2.43	0.50
58:c2:40:GLY:O	58:c2:124:LYS:N	2.44	0.50
62:c6:50:GLU:OE1	62:c6:112:TYR:OH	2.19	0.50
78:sR:25:THR:HG21	78:sR:295:SER:HA	1.93	0.50
1:1:139:G:H2'	1:1:140:C:C6	2.46	0.50
1:1:381:U:H2'	1:1:382:U:C6	2.45	0.50
1:1:1148:G:P	34:O3:21:ARG:HG3	2.51	0.50
1:1:1652:G:O2'	35:O4:45:GLY:HA3	2.11	0.50
1:1:1724:U:H1'	1:1:1725:C:C6	2.46	0.50
1:1:1770:G:H5'	1:1:1771:C:OP2	2.11	0.50
5:L3:136:LYS:O	5:L3:139:GLN:NE2	2.45	0.50
5:L3:159:ARG:HG2	5:L3:182:GLN:HA	1.93	0.50
13:M1:85:LYS:O	13:M1:88:GLU:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:M4:32:LEU:HD11	15:M4:94:TRP:CD1	2.46	0.50
17:M6:27:LEU:HD22	17:M6:101:ARG:HB2	1.92	0.50
19:M8:79:LYS:HA	19:M8:136:ASN:ND2	2.26	0.50
25:N4:8:PHE:CD2	25:N4:46:PRO:HG3	2.46	0.50
31:O0:22:LYS:HE2	31:O0:94:GLU:HG2	1.92	0.50
45:2:253:A:H2'	45:2:254:A:C8	2.46	0.50
45:2:1527:C:H2'	45:2:1528:U:C6	2.45	0.50
47:S1:88:VAL:HG11	47:S1:96:LEU:HD23	1.93	0.50
47:S1:103:MET:HB3	47:S1:215:VAL:CG1	2.42	0.50
48:S2:68:ILE:O	48:S2:72:LEU:HB2	2.12	0.50
54:S8:74:LYS:HE2	54:S8:112:TRP:HB2	1.92	0.50
58:C2:90:LYS:O	58:C2:91:VAL:HG22	2.11	0.50
1:5:518:G:OP2	1:5:518:G:N2	2.37	0.50
1:5:879:U:O2	1:5:2357:A:H1'	2.11	0.50
1:5:1321:G:O2'	21:n0:111:ALA:O	2.23	0.50
1:5:1370:G:H5''	29:n8:18:GLY:O	2.10	0.50
1:5:2373:A:N7	1:5:2867:C:H1'	2.26	0.50
1:5:2435:G:H1	1:5:2512:C:H42	1.59	0.50
1:5:2836:C:H4'	12:m0:157:TYR:CD1	2.46	0.50
1:5:2960:C:H2'	1:5:2961:G:C8	2.46	0.50
2:7:7:G:OP1	7:l5:33:ARG:NH1	2.41	0.50
7:l5:282:ARG:O	7:l5:286:VAL:HG23	2.11	0.50
11:l9:31:ARG:HH22	11:l9:188:THR:CG2	2.24	0.50
24:n3:93:LEU:HD23	24:n3:93:LEU:H	1.75	0.50
45:6:512:A:C8	55:s9:172:VAL:HG21	2.46	0.50
45:6:1241:G:OP2	61:c5:77:ARG:NH1	2.34	0.50
45:6:1437:U:H2'	45:6:1438:G:C8	2.46	0.50
45:6:1540:G:OP1	87:6:2208:HOH:O	2.19	0.50
48:s2:56:ILE:HG23	48:s2:61:LEU:HB2	1.93	0.50
51:s5:157:ARG:O	51:s5:224:ASN:HB3	2.11	0.50
55:s9:171:ARG:HH11	55:s9:174:ARG:HB3	1.77	0.50
59:c3:136:PRO:O	59:c3:138:ASN:N	2.44	0.50
64:c8:35:ILE:HB	64:c8:38:VAL:CG1	2.41	0.50
70:d4:113:ASN:HA	70:d4:116:LYS:HD2	1.93	0.50
1:1:18:G:N7	85:1:3998:LLL:N33	2.55	0.50
1:1:44:U:OP1	16:M5:84:PRO:HG2	2.11	0.50
1:1:230:U:H2'	1:1:231:G:O4'	2.10	0.50
1:1:839:C:O2'	1:1:1724:U:OP1	2.27	0.50
1:1:1394:A:H2'	1:1:1395:G:O4'	2.12	0.50
1:1:1414:G:H2'	1:1:1415:U:C6	2.46	0.50
1:1:2151:C:O2'	1:1:2243:A:N1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2554:A:C8	1:1:2554:A:H5'	2.46	0.50
1:1:3302:U:H1'	1:1:3313:U:O2	2.11	0.50
11:L9:29:GLY:HA3	11:L9:82:VAL:HG13	1.93	0.50
23:N2:38:ILE:HG12	23:N2:56:VAL:HB	1.94	0.50
34:O3:37:THR:HB	34:O3:39:GLN:OE1	2.11	0.50
45:2:525:A:H5''	70:D4:89:TYR:CE1	2.47	0.50
45:2:1142:A:H2'	45:2:1143:A:C8	2.46	0.50
45:2:1352:G:H1	45:2:1373:C:H42	1.59	0.50
45:2:1601:G:N2	65:C9:88:VAL:HG22	2.23	0.50
51:S5:43:PHE:HD2	51:S5:46:TRP:O	1.94	0.50
70:D4:52:LYS:O	70:D4:55:VAL:HG12	2.11	0.50
71:D5:54:VAL:HG13	71:D5:57:TYR:CD1	2.46	0.50
1:5:783:A:H5''	1:5:784:A:H5''	1.93	0.50
1:5:1488:G:H5''	1:5:1838:G:O6	2.11	0.50
1:5:1940:G:N2	1:5:3362:A:H8	2.09	0.50
1:5:2514:U:H3	10:I8:69:LEU:HD13	1.76	0.50
1:5:3236:U:H2'	1:5:3237:U:H6	1.76	0.50
4:I2:204:MET:HE2	4:I2:209:HIS:HB2	1.93	0.50
5:I3:370:PHE:CD2	5:I3:376:LYS:HG3	2.47	0.50
6:I4:179:LEU:HD22	6:I4:183:LYS:CG	2.41	0.50
7:I5:22:ARG:HA	7:I5:25:GLU:HG3	1.94	0.50
9:I7:191:VAL:HG23	9:I7:192:GLY:H	1.77	0.50
43:Q2:105:GLN:HG3	43:Q2:106:PHE:CE1	2.47	0.50
45:6:180:A:H2'	45:6:181:A:O4'	2.10	0.50
45:6:627:C:H2'	45:6:628:G:O4'	2.12	0.50
45:6:673:A:OP2	55:S9:92:LYS:NZ	2.33	0.50
45:6:800:U:H2'	45:6:801:G:H8	1.75	0.50
47:S1:30:PHE:HB3	47:S1:96:LEU:HD12	1.92	0.50
48:S2:88:LYS:HG2	48:S2:89:GLN:N	2.26	0.50
49:S3:117:ARG:NH1	79:SM:126:ASP:OD2	2.45	0.50
74:D8:64:ARG:HE	74:D8:65:ARG:HD2	1.76	0.50
1:1:501:A:H5''	8:L6:28:GLN:HE21	1.76	0.50
1:1:944:C:H4'	33:O2:33:ARG:NH1	2.26	0.50
1:1:1129:A:N3	1:1:2826:U:O2'	2.37	0.50
1:1:1349:G:C8	1:1:1350:A:C6	2.99	0.50
1:1:2267:C:H2'	1:1:2268:U:O4'	2.10	0.50
1:1:2419:A:H1'	1:1:2804:A:O4'	2.10	0.50
1:1:2730:G:H4'	19:M8:184:PHE:CG	2.46	0.50
1:1:2827:U:O2'	1:1:2829:U:O4	2.27	0.50
1:1:3392:U:H2'	1:1:3393:U:C6	2.46	0.50
2:3:113:C:H2'	2:3:114:U:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:120:TYR:CE2	6:L4:277:PRO:HB3	2.46	0.50
8:L6:31:ARG:NH1	34:O3:107:ILE:O	2.37	0.50
10:L8:50:VAL:HG22	26:N5:30:ALA:HA	1.92	0.50
26:N5:34:LEU:HD22	26:N5:35:PRO:HD2	1.92	0.50
31:O0:30:THR:HG21	31:O0:89:VAL:HG22	1.94	0.50
43:Q2:15:LYS:HD2	43:Q2:18:ARG:HH11	1.76	0.50
43:Q2:77:CYS:O	43:Q2:78:LYS:HG2	2.11	0.50
45:2:213:A:H2'	45:2:214:G:O4'	2.12	0.50
45:2:230:C:H3'	45:2:231:U:H5''	1.93	0.50
45:2:1132:A:OP1	69:D3:30:LYS:HE3	2.11	0.50
45:2:1369:U:OP2	65:C9:69:LYS:HE3	2.12	0.50
46:S0:189:VAL:HG13	46:S0:190:ASP:O	2.11	0.50
47:S1:223:PHE:HE2	47:S1:228:LEU:HD13	1.77	0.50
48:S2:133:LYS:O	48:S2:136:VAL:HG13	2.11	0.50
49:S3:25:PHE:CZ	49:S3:50:ILE:HD11	2.47	0.50
49:S3:70:THR:HG22	49:S3:86:LEU:HD13	1.92	0.50
49:S3:94:ARG:NH2	79:SM:134:ASP:OD1	2.45	0.50
61:C5:17:TYR:O	61:C5:18:ARG:HG3	2.11	0.50
67:D1:39:VAL:HA	67:D1:45:ALA:HA	1.94	0.50
71:D5:90:LYS:HD3	71:D5:103:ARG:O	2.12	0.50
1:5:338:A:OP1	6:14:47:ARG:HA	2.12	0.50
1:5:696:C:OP2	6:14:119:ARG:NH2	2.44	0.50
1:5:1079:A:H2'	1:5:1080:A:O4'	2.12	0.50
1:5:1239:C:N4	1:5:1249:G:H1	2.07	0.50
1:5:1824:U:H2'	1:5:1825:G:H8	1.76	0.50
3:8:112:U:OP2	40:o9:8:ARG:NH2	2.38	0.50
3:8:112:U:P	40:o9:8:ARG:HH21	2.34	0.50
7:l5:83:LEU:HB3	7:l5:88:ILE:HB	1.94	0.50
24:n3:87:ARG:HH22	24:n3:137:VAL:CG2	2.24	0.50
40:o9:21:ARG:NH1	40:o9:22:PRO:O	2.44	0.50
45:6:1095:U:H5''	45:6:1096:C:O5'	2.11	0.50
45:6:1445:G:O6	77:e1:87:THR:HG23	2.11	0.50
45:6:1793:G:H1'	45:6:1794:A:H2'	1.93	0.50
47:s1:82:ARG:NH2	47:s1:188:LEU:O	2.44	0.50
51:s5:127:GLN:HG2	51:s5:128:ASN:H	1.75	0.50
54:s8:25:ARG:O	54:s8:28:GLU:HG3	2.11	0.50
54:s8:36:THR:OG1	54:s8:96:LEU:HB2	2.11	0.50
54:s8:113:PHE:CD1	54:s8:121:LEU:HD21	2.46	0.50
1:1:993:G:N3	1:1:2637:A:H2'	2.27	0.50
1:1:1581:C:H2'	1:1:1582:C:H5'	1.92	0.50
1:1:2356:A:OP1	18:M7:138:LYS:NZ	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L8:156:ASP:HB2	10:L8:183:LYS:HG2	1.94	0.50
17:M6:85:ARG:HD3	17:M6:90:HIS:CG	2.46	0.50
27:N6:59:VAL:O	27:N6:64:LYS:HD2	2.11	0.50
29:N8:72:VAL:HG13	29:N8:113:LEU:HG	1.93	0.50
41:Q0:94:SER:HA	41:Q0:123:PRO:HA	1.94	0.50
45:2:191:C:H2'	45:2:192:U:H6	1.76	0.50
45:2:199:G:O2'	45:2:200:A:H8	1.95	0.50
45:2:524:U:H2'	45:2:526:A:OP2	2.11	0.50
45:2:538:A:C8	45:2:543:C:N4	2.79	0.50
45:2:811:A:H2	45:2:814:A:H62	1.59	0.50
45:2:1036:A:H2'	45:2:1037:C:O4'	2.12	0.50
45:2:1198:G:H4'	66:D0:72:ASN:O	2.10	0.50
45:2:1685:G:C2	45:2:1717:G:C6	3.00	0.50
46:S0:60:ALA:HB3	46:S0:177:LEU:HD21	1.93	0.50
51:S5:41:LYS:O	51:S5:41:LYS:HD3	2.10	0.50
57:C1:2:SER:HB2	57:C1:81:HIS:HD2	1.76	0.50
71:D5:40:VAL:O	71:D5:75:LEU:HD11	2.11	0.50
1:5:118:U:O2	1:5:121:A:H5'	2.12	0.50
1:5:172:G:H2'	1:5:173:G:H5'	1.93	0.50
1:5:317:A:H2'	1:5:318:A:C8	2.47	0.50
1:5:608:A:C6	8:l6:22:ARG:HD3	2.46	0.50
1:5:1558:A:N3	26:n5:34:LEU:HD23	2.26	0.50
1:5:1733:G:H2'	1:5:1734:G:C8	2.46	0.50
1:5:1947:G:N1	1:5:2102:U:O2	2.44	0.50
1:5:2818:U:C5'	30:n9:2:ALA:HB2	2.41	0.50
6:l4:16:THR:HG22	6:l4:18:ASN:H	1.76	0.50
6:l4:69:ARG:C	6:l4:71:VAL:H	2.18	0.50
10:l8:215:VAL:O	10:l8:219:ASP:HB2	2.11	0.50
20:m9:109:TYR:HB3	20:m9:115:ILE:HG12	1.93	0.50
36:o5:58:ILE:O	36:o5:61:GLN:HG2	2.12	0.50
45:6:1:U:H1'	45:6:369:A:N7	2.26	0.50
45:6:350:U:H5''	45:6:352:A:O4'	2.12	0.50
45:6:765:G:N7	55:s9:149:ARG:HD2	2.26	0.50
45:6:811:A:C4	45:6:858:G:H1'	2.47	0.50
45:6:895:G:H2'	45:6:896:U:C6	2.47	0.50
45:6:1400:A:O3'	63:c7:60:ARG:NH1	2.43	0.50
45:6:1529:C:H2'	45:6:1530:C:C6	2.46	0.50
48:s2:80:VAL:HA	48:s2:102:VAL:HG22	1.93	0.50
51:s5:163:SER:HB3	74:d8:46:GLY:HA3	1.93	0.50
69:d3:51:GLY:HA2	69:d3:77:ILE:HG13	1.93	0.50
71:d5:38:HIS:HA	71:d5:70:LYS:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:436:A:H61	1:1:623:U:H3	1.59	0.50
1:1:563:U:OP1	21:N0:68:HIS:HD2	1.95	0.50
1:1:1794:G:O2'	1:1:1795:U:H5'	2.12	0.50
1:1:2196:C:O2'	1:1:2270:A:N3	2.41	0.50
1:1:2294:U:H2'	1:1:2296:A:OP2	2.11	0.50
1:1:2619:G:N7	12:M0:112:GLN:O	2.44	0.50
1:1:2756:C:O4'	22:N1:49:GLN:HG2	2.12	0.50
1:1:2932:U:O2	1:1:2934:A:C8	2.65	0.50
1:1:3095:U:H2'	1:1:3096:C:H6	1.76	0.50
5:L3:103:THR:HG21	5:L3:147:GLU:OE2	2.12	0.50
6:L4:338:LYS:C	6:L4:340:GLY:H	2.15	0.50
10:L8:190:VAL:HG13	10:L8:192:GLN:HG2	1.93	0.50
15:M4:20:VAL:CG1	15:M4:68:LEU:HB2	2.41	0.50
16:M5:47:LYS:O	16:M5:50:ARG:HG2	2.12	0.50
16:M5:68:ARG:HD3	16:M5:125:SER:O	2.12	0.50
19:M8:94:PHE:CZ	29:N8:119:PRO:HD3	2.47	0.50
39:O8:10:GLN:HA	39:O8:13:GLU:OE1	2.11	0.50
41:Q0:97:ARG:HG3	41:Q0:120:GLN:O	2.12	0.50
45:2:192:U:O2'	45:2:193:U:O4'	2.30	0.50
45:2:747:C:H4'	68:D2:80:ASN:ND2	2.27	0.50
45:2:1066:C:O2'	47:S1:148:ASN:OD1	2.30	0.50
45:2:1498:G:OP2	65:C9:74:GLY:HA3	2.12	0.50
45:2:1711:C:H2'	45:2:1712:A:H5''	1.94	0.50
54:S8:89:GLU:O	54:S8:93:THR:OG1	2.26	0.50
55:S9:109:LEU:CB	55:S9:146:PHE:HB3	2.42	0.50
58:C2:66:VAL:HG11	58:C2:71:ILE:HD13	1.93	0.50
71:D5:83:LEU:HD22	71:D5:88:ILE:HG21	1.93	0.50
73:D7:11:THR:OG1	73:D7:14:SER:OG	2.28	0.50
78:SR:255:ALA:HB2	78:SR:292:LEU:HD23	1.93	0.50
79:SM:23:LYS:H	79:SM:23:LYS:HD2	1.77	0.50
1:5:173:G:O2'	1:5:174:C:H6	1.95	0.50
1:5:215:G:H2'	1:5:216:G:H8	1.75	0.50
1:5:1306:G:C6	17:m6:62:THR:HA	2.47	0.50
1:5:1491:A:N6	1:5:1838:G:N2	2.60	0.50
1:5:1758:G:H5'	23:n2:104:ARG:NH2	2.27	0.50
1:5:2250:G:C2'	1:5:2251:G:H5'	2.41	0.50
1:5:2355:G:H4'	18:m7:139:TYR:CE2	2.47	0.50
1:5:3236:U:H2'	1:5:3237:U:C6	2.47	0.50
4:l2:136:ILE:HA	4:l2:148:VAL:HG12	1.94	0.50
5:l3:188:ILE:O	5:l3:192:VAL:HG12	2.12	0.50
6:l4:58:HIS:HA	6:l4:90:PHE:CE1	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l4:166:VAL:O	6:l4:170:LYS:HG3	2.12	0.50
6:l4:328:ASN:OD1	9:l7:48:ASN:ND2	2.44	0.50
7:l5:85:ARG:HG2	7:l5:86:TYR:CD2	2.45	0.50
13:m1:7:ASN:N	13:m1:8:PRO:HD3	2.27	0.50
16:m5:140:LYS:NZ	36:o5:96:GLU:OE2	2.37	0.50
18:m7:123:PRO:O	18:m7:143:PRO:HG2	2.11	0.50
26:n5:136:ALA:O	26:n5:139:ILE:N	2.44	0.50
45:6:6:G:OP2	48:s2:205:ARG:HD2	2.12	0.50
45:6:448:C:H4'	50:s4:28:ALA:O	2.12	0.50
45:6:1219:A:N3	56:c0:51:SER:OG	2.44	0.50
46:s0:13:ASP:CG	46:s0:179:ARG:HH22	2.19	0.50
47:s1:35:PRO:HG3	47:s1:99:ASN:HA	1.94	0.50
49:s3:118:ALA:O	49:s3:122:VAL:HG23	2.12	0.50
50:s4:11:ARG:HG2	50:s4:11:ARG:O	2.11	0.50
64:c8:72:ILE:HG12	64:c8:79:TYR:CD1	2.47	0.50
71:d5:92:ILE:HG13	71:d5:93:SER:N	2.27	0.50
78:sR:198:ASN:O	78:sR:215:GLY:HA3	2.12	0.50
1:1:353:G:H22	1:1:364:G:H2'	1.76	0.50
1:1:691:A:N1	3:4:28:C:O2'	2.37	0.50
1:1:1313:G:H2'	1:1:1314:C:C6	2.46	0.50
3:4:24:G:OP2	27:N6:13:ARG:HD2	2.11	0.50
8:L6:42:LEU:HD22	8:L6:79:VAL:HG21	1.94	0.50
10:L8:97:TYR:OH	10:L8:203:VAL:HG13	2.11	0.50
14:M3:130:GLY:C	14:M3:131:LYS:HG2	2.36	0.50
14:M3:168:ARG:NH1	14:M3:172:LEU:HD11	2.26	0.50
45:2:960:U:H1'	59:C3:52:VAL:HG23	1.93	0.50
45:2:1535:U:H5	51:S5:185:ARG:C	2.20	0.50
47:S1:48:VAL:HG13	47:S1:61:LEU:HD11	1.94	0.50
49:S3:58:VAL:O	49:S3:65:ARG:HB3	2.12	0.50
70:D4:38:ASP:OD1	70:D4:52:LYS:NZ	2.36	0.50
1:5:99:A:H5'	16:m5:194:GLN:OE1	2.11	0.50
1:5:269:G:N2	1:5:295:A:OP2	2.32	0.50
1:5:900:G:N7	85:5:4156:LLL:N12	2.59	0.50
1:5:1329:U:HO2'	1:5:1330:A:P	2.33	0.50
1:5:2651:G:C4	1:5:2796:G:C2	3.00	0.50
1:5:3145:C:P	85:5:4178:LLL:H212	2.34	0.50
5:l3:43:LEU:HG	5:l3:181:ILE:HG21	1.92	0.50
5:l3:106:TRP:HB2	5:l3:133:TYR:CE2	2.47	0.50
6:l4:300:ARG:HG2	19:m8:39:ARG:O	2.12	0.50
12:m0:159:PHE:HB2	12:m0:163:GLN:NE2	2.26	0.50
23:n2:43:VAL:HG21	23:n2:50:LEU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:588:U:P	76:e0:26:LYS:HE2	2.52	0.50
45:6:603:U:H2'	45:6:604:A:C8	2.47	0.50
49:s3:32:GLU:O	49:s3:52:ALA:HB1	2.11	0.50
53:s7:141:ARG:NH2	53:s7:143:LEU:HD11	2.27	0.50
56:c0:1:MET:HE3	56:c0:41:TYR:HD1	1.76	0.50
64:c8:120:ARG:HD3	79:sM:61:ILE:HG21	1.94	0.50
64:c8:123:ARG:HG3	64:c8:133:VAL:HG13	1.93	0.50
69:d3:73:ARG:HH21	69:d3:84:THR:HG22	1.76	0.50
72:d6:5:ARG:HD2	72:d6:8:ASN:O	2.12	0.50
1:1:737:G:H2'	1:1:738:A:H8	1.77	0.50
1:1:1616:U:H2'	1:1:1617:G:C8	2.47	0.50
1:1:1631:C:H3'	28:N7:48:ARG:HH12	1.77	0.50
1:1:2152:A:O2'	1:1:2243:A:O2'	2.14	0.50
4:L2:51:ASP:HB3	4:L2:54:ARG:HB3	1.93	0.50
4:L2:251:LYS:NZ	45:2:986:G:OP2	2.42	0.50
7:L5:287:ALA:HA	7:L5:290:ILE:HG12	1.92	0.50
10:L8:107:GLU:O	10:L8:111:LYS:HB2	2.11	0.50
11:L9:103:ILE:HD11	11:L9:134:ILE:HB	1.94	0.50
18:M7:72:GLN:OE1	18:M7:83:TRP:NE1	2.39	0.50
28:N7:135:ARG:HG2	28:N7:135:ARG:HH21	1.77	0.50
36:O5:100:VAL:HG22	36:O5:101:THR:H	1.77	0.50
37:O6:43:LEU:O	37:O6:47:ILE:HG13	2.12	0.50
45:2:22:A:H2'	45:2:23:G:H8	1.76	0.50
45:2:274:G:H3'	45:2:275:C:C5	2.46	0.50
45:2:1291:G:H21	45:2:1324:G:H22	1.60	0.50
45:2:1683:C:O2'	45:2:1684:U:O5'	2.29	0.50
46:S0:37:VAL:HG13	46:S0:46:HIS:HB3	1.94	0.50
46:S0:200:ASP:CG	63:C7:88:VAL:HG12	2.37	0.50
63:C7:20:TYR:CZ	63:C7:38:ILE:HG13	2.47	0.50
71:D5:59:TYR:CE2	71:D5:61:SER:HB3	2.43	0.50
74:D8:10:ALA:HA	74:D8:32:PHE:HA	1.93	0.50
74:D8:27:GLN:CD	74:D8:64:ARG:HH21	2.18	0.50
1:5:96:G:H5'	14:m3:15:ARG:CZ	2.42	0.50
1:5:495:G:H2'	1:5:496:C:O4'	2.12	0.50
1:5:644:G:H2'	1:5:2372:A:N7	2.27	0.50
1:5:648:C:O2'	87:5:4275:HOH:O	2.19	0.50
1:5:1433:A:N3	33:o2:27:ARG:NH1	2.60	0.50
1:5:1549:U:H2'	1:5:1550:C:C6	2.46	0.50
1:5:1940:G:OP1	20:m9:80:LYS:HE3	2.12	0.50
1:5:3296:A:H2'	1:5:3297:U:C6	2.47	0.50
2:7:2:G:H5'	7:l5:270:LYS:CG	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:81:THR:HG22	5:l3:321:PHE:CA	2.39	0.50
12:m0:23:ASN:HD21	12:m0:96:VAL:HG21	1.77	0.50
27:n6:120:GLN:NE2	27:n6:126:LEU:HD23	2.27	0.50
28:n7:46:ILE:HD11	28:n7:49:TYR:CD2	2.46	0.50
34:o3:45:LEU:HA	34:o3:71:VAL:HG12	1.93	0.50
37:o6:5:THR:OG1	37:o6:12:ASN:O	2.24	0.50
45:6:442:C:H42	45:6:462:G:H1	1.59	0.50
45:6:542:A:N1	76:e0:28:LYS:NZ	2.39	0.50
48:s2:102:VAL:HG11	48:s2:129:ILE:HG12	1.94	0.50
50:s4:21:ASP:OD1	50:s4:24:SER:OG	2.29	0.50
78:sR:278:PHE:CD1	78:sR:287:PRO:HD2	2.47	0.50
1:1:847:A:H2'	1:1:848:A:C8	2.47	0.50
1:1:1103:A:N6	1:1:1363:A:H1'	2.26	0.50
1:1:2407:C:H2'	1:1:2408:U:H6	1.77	0.50
1:1:3386:G:H5'	32:O1:10:ARG:CZ	2.42	0.50
11:L9:86:TYR:O	11:L9:147:SER:HA	2.11	0.50
11:L9:100:ASN:HB3	11:L9:115:ARG:HB2	1.92	0.50
14:M3:176:GLU:HG2	37:O6:11:LEU:HD22	1.93	0.50
29:N8:2:PRO:HG2	29:N8:5:PHE:CD2	2.47	0.50
38:O7:17:THR:O	38:O7:25:ARG:HA	2.12	0.50
45:2:68:A:OP1	52:S6:160:ARG:NH1	2.24	0.50
45:2:95:G:OP1	50:S4:6:LYS:HE2	2.12	0.50
45:2:1358:G:H2'	45:2:1359:C:C6	2.46	0.50
45:2:1541:G:OP2	87:2:2117:HOH:O	2.20	0.50
46:S0:48:ILE:HG21	46:S0:161:PRO:HB2	1.92	0.50
49:S3:132:LYS:HB3	49:S3:189:MET:CG	2.41	0.50
53:S7:20:VAL:HA	53:S7:23:ALA:HB3	1.93	0.50
54:S8:84:HIS:NE2	54:S8:97:THR:OG1	2.41	0.50
66:D0:20:ILE:HG13	66:D0:95:ALA:O	2.12	0.50
75:D9:12:ARG:HB3	75:D9:18:SER:HA	1.92	0.50
1:5:240:U:HO2'	1:5:241:G:H8	1.56	0.50
1:5:2812:C:H2'	1:5:2813:A:C8	2.47	0.50
6:l4:352:ALA:O	6:l4:354:VAL:N	2.36	0.50
10:l8:71:VAL:HG22	16:m5:21:PHE:CZ	2.47	0.50
10:l8:172:LYS:HD3	37:o6:39:PHE:HE1	1.77	0.50
11:l9:9:GLN:O	11:l9:72:LYS:NZ	2.29	0.50
12:m0:76:MET:HE1	12:m0:148:VAL:CA	2.18	0.50
19:m8:34:THR:HG22	19:m8:49:LEU:HD21	1.94	0.50
26:n5:109:LYS:NZ	87:n5:301:HOH:O	2.45	0.50
29:n8:90:TYR:CD1	29:n8:100:PRO:HB3	2.46	0.50
37:o6:91:ASN:O	37:o6:94:ILE:HG22	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:558:U:OP2	76:e0:55:ARG:NH1	2.45	0.50
45:6:699:U:H1'	45:6:740:A:C2	2.47	0.50
45:6:841:U:H2'	45:6:842:C:C6	2.47	0.50
45:6:1138:A:H2'	45:6:1139:A:C8	2.47	0.50
45:6:1199:G:P	75:d9:40:ARG:HH21	2.35	0.50
46:s0:140:ASN:OD1	48:s2:62:PRO:HD3	2.11	0.50
47:s1:183:GLN:O	47:s1:187:LYS:HG3	2.12	0.50
54:s8:113:PHE:CD1	54:s8:121:LEU:HD11	2.47	0.50
58:c2:59:LEU:HD22	58:c2:60:VAL:H	1.77	0.50
71:d5:71:ILE:HG23	71:d5:73:GLY:H	1.77	0.50
72:d6:11:ASN:O	72:d6:11:ASN:ND2	2.45	0.50
74:d8:17:GLY:O	74:d8:27:GLN:N	2.36	0.50
1:1:168:U:H2'	1:1:169:U:C5	2.47	0.49
1:1:662:U:OP1	29:N8:8:THR:HG21	2.12	0.49
1:1:1202:A:C2	1:1:2857:C:H5'	2.47	0.49
1:1:2503:G:H1'	1:1:2504:U:C5	2.42	0.49
1:1:3115:C:OP1	11:L9:62:ARG:NH2	2.45	0.49
2:3:112:G:H2'	2:3:113:C:H6	1.76	0.49
6:L4:300:ARG:HG2	19:M8:39:ARG:O	2.12	0.49
17:M6:39:GLU:HG2	17:M6:40:GLU:HG2	1.93	0.49
18:M7:92:GLN:HA	18:M7:95:LEU:HB2	1.94	0.49
24:N3:20:GLY:HA2	24:N3:35:TYR:HE1	1.77	0.49
45:2:58:U:OP1	45:2:456:A:O2'	2.28	0.49
45:2:780:A:C8	70:D4:8:ARG:HB3	2.36	0.49
45:2:1405:G:H2'	45:2:1406:A:C8	2.47	0.49
45:2:1450:U:H2'	45:2:1451:C:C6	2.47	0.49
45:2:1756:A:HO2'	45:2:1757:G:P	2.31	0.49
58:C2:98:GLY:HA2	58:C2:101:ALA:HB3	1.93	0.49
67:D1:50:TYR:HB3	67:D1:52:THR:HG22	1.93	0.49
71:D5:46:LYS:HG2	71:D5:70:LYS:HE3	1.94	0.49
71:D5:56:THR:H	71:D5:103:ARG:NH1	2.06	0.49
71:D5:89:ILE:HB	71:D5:101:TYR:CD1	2.47	0.49
77:E1:89:LYS:HE3	77:E1:91:ILE:H	1.77	0.49
77:E1:126:CYS:HB3	77:E1:130:VAL:CG1	2.41	0.49
1:5:40:A:OP2	29:n8:36:GLY:N	2.43	0.49
1:5:507:U:H2'	1:5:508:U:C6	2.47	0.49
1:5:1080:A:C2'	1:5:1081:U:H5''	2.42	0.49
1:5:1816:A:C2'	1:5:1817:G:H5''	2.42	0.49
1:5:1831:U:O2'	3:8:114:G:OP1	2.20	0.49
1:5:2930:A:H2'	1:5:2931:C:C6	2.47	0.49
1:5:2940:A:N7	5:l3:2:SER:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:8:221:LLL:O52	85:8:221:LLL:N21	2.45	0.49
7:l5:122:VAL:HG13	7:l5:123:GLU:N	2.27	0.49
15:m4:113:THR:HG22	15:m4:116:GLU:CG	2.41	0.49
17:m6:29:ASN:O	34:o3:12:LYS:HE3	2.11	0.49
22:n1:17:ARG:HB3	22:n1:17:ARG:NH1	2.23	0.49
45:6:196:G:O2'	45:6:197:A:OP2	2.28	0.49
45:6:325:G:H4'	57:c1:83:THR:HG21	1.94	0.49
45:6:752:A:H61	45:6:797:G:H1	1.60	0.49
45:6:1320:U:O2	45:6:1322:A:H5'	2.12	0.49
48:s2:116:LYS:HB2	48:s2:131:ILE:HD12	1.94	0.49
49:s3:80:ALA:O	49:s3:83:THR:OG1	2.30	0.49
51:s5:99:MET:O	51:s5:103:ASN:ND2	2.31	0.49
59:c3:94:LYS:HG2	59:c3:118:ILE:HD13	1.93	0.49
78:sR:232:TYR:HE1	78:sR:268:GLN:HE22	1.58	0.49
1:1:532:A:H2	1:1:560:G:H22	1.60	0.49
1:1:2379:U:OP1	87:1:4168:HOH:O	2.18	0.49
1:1:2989:U:H2'	1:1:2990:G:O4'	2.12	0.49
5:L3:65:SER:OG	5:L3:67:PHE:N	2.45	0.49
13:M1:166:LYS:O	13:M1:167:TYR:HB2	2.12	0.49
19:M8:58:ASN:HB3	19:M8:144:ARG:NH2	2.27	0.49
27:N6:71:SER:HB3	27:N6:83:ASP:HB2	1.93	0.49
45:2:639:U:O2'	45:2:640:U:OP2	2.28	0.49
45:2:1291:G:N2	45:2:1324:G:H22	2.10	0.49
48:S2:97:ARG:HB2	48:S2:118:ALA:O	2.12	0.49
51:S5:37:GLN:HB3	62:C6:53:LEU:HD22	1.94	0.49
51:S5:205:SER:C	51:S5:207:THR:H	2.19	0.49
64:C8:145:ARG:HB3	79:SM:68:ARG:NH1	2.27	0.49
1:5:269:G:H5''	16:m5:14:LYS:NZ	2.27	0.49
1:5:572:A:H2'	1:5:573:C:H6	1.76	0.49
1:5:633:C:O2'	34:o3:21:ARG:O	2.29	0.49
1:5:764:U:H2'	1:5:765:C:H2'	1.93	0.49
1:5:1689:U:H2'	1:5:1690:C:H6	1.76	0.49
1:5:2173:U:H2'	1:5:2174:G:C8	2.47	0.49
1:5:2181:C:C5'	4:l2:193:ARG:HH21	2.25	0.49
1:5:2688:U:OP1	7:l5:12:TYR:OH	2.29	0.49
1:5:2818:U:H5''	30:n9:2:ALA:HB2	1.94	0.49
2:7:121:U:OP2	7:l5:265:TYR:OH	2.12	0.49
4:l2:225:ILE:HD12	4:l2:235:ALA:O	2.12	0.49
5:l3:227:GLU:HG3	5:l3:270:ARG:HE	1.77	0.49
6:l4:269:SER:C	6:l4:271:LYS:H	2.20	0.49
9:l7:180:SER:O	9:l7:183:ASP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:l8:165:PHE:HD1	10:l8:165:PHE:H	1.58	0.49
12:m0:150:GLU:OE1	12:m0:154:ARG:HD2	2.12	0.49
82:p0:198:PRO:C	82:p0:200:SER:H	2.20	0.49
45:6:868:G:OP1	59:c3:121:ARG:NH1	2.43	0.49
45:6:1486:G:N2	45:6:1487:A:C4	2.80	0.49
45:6:1797:A:C6	72:d6:84:VAL:HG22	2.47	0.49
46:s0:189:VAL:HG22	46:s0:190:ASP:H	1.77	0.49
50:s4:255:ARG:O	50:s4:259:GLN:HB3	2.12	0.49
51:s5:43:PHE:HB3	51:s5:46:TRP:HB2	1.94	0.49
51:s5:61:TYR:CE2	51:s5:164:PRO:HG2	2.47	0.49
55:s9:29:LYS:O	55:s9:33:GLU:HG2	2.12	0.49
63:c7:24:LEU:HD23	63:c7:34:LEU:HD13	1.94	0.49
72:d6:30:ILE:HD11	72:d6:34:LYS:HB3	1.95	0.49
78:sR:205:SER:HB3	78:sR:210:LEU:HB2	1.94	0.49
1:1:229:G:H5''	27:N6:4:GLN:H	1.77	0.49
1:1:595:G:C8	1:1:609:G:C6	3.01	0.49
1:1:1128:U:OP1	12:M0:4:ARG:NH2	2.29	0.49
1:1:1667:A:H2'	1:1:1668:G:C8	2.47	0.49
1:1:2167:A:H2'	1:1:2168:A:C8	2.47	0.49
1:1:2527:G:H1	1:1:2583:C:N4	2.09	0.49
1:1:2656:A:H4'	43:Q2:98:LYS:HD2	1.94	0.49
1:1:2681:U:H2'	1:1:2682:C:H6	1.77	0.49
1:1:2930:A:O2'	24:N3:38:ALA:HB2	2.12	0.49
3:4:10:A:H2'	3:4:11:C:C6	2.46	0.49
25:N4:27:LYS:HD3	25:N4:29:PHE:CZ	2.47	0.49
27:N6:36:SER:O	27:N6:40:ARG:N	2.39	0.49
43:Q2:2:VAL:N	43:Q2:90:HIS:O	2.45	0.49
45:2:1096:C:H5	85:2:2043:LLL:H321	1.60	0.49
45:2:1769:U:O2	60:C4:136:ARG:HD2	2.12	0.49
46:S0:175:TYR:HD1	46:S0:202:TYR:HE2	1.59	0.49
50:S4:240:LYS:HD2	50:S4:240:LYS:H	1.77	0.49
51:S5:161:ASP:O	74:D8:44:VAL:HA	2.12	0.49
53:S7:111:LYS:CD	53:S7:112:ARG:H	2.20	0.49
55:S9:181:ALA:HA	55:S9:185:GLY:HA3	1.95	0.49
56:C0:16:PHE:CD2	56:C0:76:LEU:HD23	2.48	0.49
60:C4:21:ALA:HA	60:C4:26:THR:HG22	1.93	0.49
61:C5:28:MET:O	61:C5:29:SER:HB3	2.12	0.49
61:C5:44:ARG:NH2	61:C5:52:LYS:HE2	2.26	0.49
61:C5:57:MET:HE1	61:C5:89:MET:HE3	1.94	0.49
63:C7:36:ASP:OD2	63:C7:36:ASP:N	2.44	0.49
78:SR:54:PHE:CD1	78:SR:312:VAL:HG21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:98:G:OP1	14:m3:16:LYS:NZ	2.44	0.49
1:5:305:U:C5	1:5:2776:C:H1'	2.47	0.49
1:5:776:U:C5	1:5:2719:U:O2	2.65	0.49
1:5:2514:U:P	1:5:2586:G:H22	2.35	0.49
1:5:2557:A:H2	10:l8:38:GLN:HA	1.76	0.49
1:5:2712:U:H2'	1:5:2713:U:C6	2.47	0.49
2:7:92:A:C5	2:7:93:C:H1'	2.48	0.49
3:8:68:G:N7	85:8:221:LLL:H612	2.27	0.49
12:m0:75:TYR:CZ	12:m0:150:GLU:HG2	2.47	0.49
16:m5:68:ARG:HB3	16:m5:126:THR:O	2.12	0.49
16:m5:143:ARG:HE	36:o5:92:LEU:CD2	2.24	0.49
22:n1:51:GLY:O	22:n1:95:HIS:HD2	1.95	0.49
26:n5:96:LYS:O	26:n5:100:LYS:HB2	2.12	0.49
45:6:341:A:H2'	45:6:342:C:C6	2.48	0.49
45:6:592:A:O2'	45:6:596:C:OP1	2.29	0.49
45:6:1557:U:O2'	45:6:1558:U:H2'	2.12	0.49
48:s2:35:TRP:CZ2	48:s2:37:PRO:HB3	2.48	0.49
52:s6:20:ASP:HB3	52:s6:23:ARG:HB2	1.93	0.49
52:s6:64:LYS:HD2	52:s6:97:VAL:HG21	1.95	0.49
52:s6:159:ARG:HB3	52:s6:170:THR:OG1	2.12	0.49
54:s8:70:GLU:HB3	54:s8:112:TRP:CH2	2.47	0.49
55:s9:28:LEU:HD21	76:e0:39:LEU:HB3	1.93	0.49
61:c5:95:GLY:HA2	61:c5:103:ASN:O	2.12	0.49
69:d3:17:VAL:HG22	69:d3:20:ARG:NH2	2.27	0.49
70:d4:36:SER:O	70:d4:39:GLU:HB2	2.12	0.49
1:1:175:C:H2'	1:1:176:G:O4'	2.12	0.49
1:1:495:G:O5'	1:1:495:G:H8	1.94	0.49
1:1:1009:A:O3'	12:M0:39:LYS:NZ	2.45	0.49
1:1:1062:A:N3	22:N1:130:ARG:NH2	2.60	0.49
1:1:1870:C:H4'	1:1:3076:C:O2	2.12	0.49
1:1:2808:A:H4'	1:1:2809:C:O5'	2.11	0.49
4:L2:170:ALA:HB2	44:Q3:65:ALA:HB1	1.93	0.49
5:L3:41:VAL:HG12	5:L3:185:GLY:HA3	1.95	0.49
12:M0:68:ALA:HB1	12:M0:155:ALA:HB1	1.93	0.49
25:N4:4:GLU:O	25:N4:13:ILE:N	2.32	0.49
28:N7:102:GLU:H	28:N7:107:ARG:HH21	1.59	0.49
44:Q3:55:TRP:CE3	44:Q3:71:VAL:HG22	2.48	0.49
45:2:66:U:H4'	52:S6:171:LYS:HE2	1.94	0.49
45:2:576:G:H4'	45:2:580:A:C4	2.48	0.49
45:2:804:A:N3	68:D2:105:THR:HG22	2.27	0.49
45:2:913:G:O5'	45:2:913:G:H8	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:S0:41:ARG:HD2	46:S0:42:PRO:HD2	1.93	0.49
47:S1:45:LYS:HG3	60:C4:13:VAL:HG23	1.93	0.49
78:SR:66:HIS:CG	78:SR:85:TRP:HB2	2.48	0.49
78:SR:132:LYS:NZ	78:SR:143:THR:OG1	2.41	0.49
1:5:1088:U:H2'	1:5:1089:G:H8	1.77	0.49
1:5:1313:G:H2'	1:5:1314:C:C6	2.48	0.49
1:5:2354:C:N4	87:5:4328:HOH:O	2.45	0.49
1:5:3280:U:O2'	1:5:3281:U:OP2	2.25	0.49
2:7:23:A:C6	2:7:24:A:C6	3.01	0.49
11:l9:94:TYR:CD2	11:l9:98:PRO:HA	2.47	0.49
29:n8:77:LYS:O	29:n8:79:TRP:N	2.38	0.49
29:n8:126:LYS:HB3	29:n8:148:ILE:HG21	1.93	0.49
45:6:1125:A:C5	45:6:1126:G:H1'	2.47	0.49
48:s2:102:VAL:O	48:s2:114:GLY:N	2.39	0.49
49:s3:32:GLU:HB3	49:s3:58:VAL:HG23	1.92	0.49
51:s5:25:LEU:H	51:s5:25:LEU:HD23	1.78	0.49
51:s5:43:PHE:N	51:s5:46:TRP:H	2.09	0.49
58:c2:62:LEU:H	58:c2:90:LYS:HA	1.78	0.49
75:d9:19:ARG:NH1	75:d9:19:ARG:HB2	2.28	0.49
79:sM:155:LEU:O	79:sM:158:GLN:N	2.38	0.49
1:1:282:G:H2'	1:1:286:U:H5'	1.95	0.49
1:1:1204:A:H2'	1:1:1205:A:H5'	1.94	0.49
1:1:2273:G:O2'	1:1:2311:G:O6	2.30	0.49
1:1:2571:U:O2'	1:1:2572:C:H2'	2.12	0.49
1:1:2676:A:H4'	1:1:2677:G:O5'	2.12	0.49
6:L4:209:TYR:O	6:L4:230:VAL:HG23	2.11	0.49
25:N4:23:ARG:HG2	25:N4:24:GLY:H	1.77	0.49
31:O0:42:ILE:HG12	31:O0:67:VAL:HG22	1.94	0.49
31:O0:98:SER:OG	31:O0:100:ILE:HG13	2.11	0.49
33:O2:20:HIS:ND1	33:O2:42:VAL:HG21	2.28	0.49
37:O6:62:ARG:NH2	37:O6:94:ILE:HD11	2.27	0.49
45:2:72:A:C2	45:2:74:U:H5''	2.47	0.49
45:2:246:G:C4	57:C1:40:LEU:HD13	2.47	0.49
45:2:1133:A:H2'	45:2:1134:C:O4'	2.13	0.49
45:2:1482:C:O2'	62:C6:72:GLY:O	2.20	0.49
45:2:1525:A:N1	45:2:1608:U:H1'	2.27	0.49
48:S2:234:PRO:O	48:S2:235:LEU:HB2	2.11	0.49
49:S3:79:TYR:CE1	49:S3:84:ILE:HD12	2.48	0.49
50:S4:94:ALA:HB1	70:D4:16:PRO:HB2	1.93	0.49
53:S7:121:VAL:O	53:S7:125:ILE:N	2.43	0.49
55:S9:65:LYS:HA	55:S9:70:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:C1:66:ILE:HD13	57:C1:126:GLY:HA3	1.94	0.49
69:D3:63:GLN:HA	69:D3:65:ASN:H	1.76	0.49
78:SR:90:ARG:HG2	78:SR:99:THR:HG21	1.94	0.49
79:SM:51:ARG:HB2	79:SM:52:PRO:HD2	1.95	0.49
1:5:196:G:N2	1:5:198:A:H3'	2.27	0.49
1:5:392:G:H2'	1:5:393:U:H6	1.77	0.49
1:5:1103:A:C2'	1:5:1104:G:H5'	2.42	0.49
1:5:1822:C:H2'	1:5:1823:A:C8	2.48	0.49
1:5:2117:A:H3'	1:5:2118:C:H6	1.77	0.49
1:5:2213:A:N1	1:5:2429:G:H1'	2.27	0.49
1:5:2401:A:O2'	1:5:2402:A:H5'	2.13	0.49
1:5:2756:C:O4'	22:n1:49:GLN:HG2	2.11	0.49
1:5:3155:U:C2'	1:5:3156:U:H5''	2.42	0.49
85:5:4173:LLL:H322	85:5:4173:LLL:H51	1.77	0.49
11:l9:4:ILE:HD11	21:n0:148:LEU:HD21	1.94	0.49
13:m1:37:LEU:HD12	13:m1:67:VAL:HG13	1.95	0.49
36:o5:24:LEU:HD22	36:o5:47:VAL:HG23	1.93	0.49
45:6:79:C:H1'	52:s6:174:LYS:HG3	1.95	0.49
45:6:250:C:H2'	45:6:251:A:C8	2.47	0.49
45:6:514:G:O2'	45:6:515:A:H5'	2.11	0.49
45:6:834:G:H3'	45:6:835:U:C5	2.47	0.49
45:6:1129:U:OP2	85:6:2176:LLL:H222	2.11	0.49
47:s1:64:ARG:NH2	60:c4:36:LYS:HE2	2.27	0.49
47:s1:103:MET:HE1	47:s1:212:VAL:O	2.12	0.49
48:s2:168:ARG:CZ	48:s2:170:ILE:HD11	2.43	0.49
52:s6:57:ASP:HB3	52:s6:98:ARG:HG3	1.94	0.49
71:d5:55:PRO:HG3	71:d5:88:ILE:CG2	2.43	0.49
1:1:86:G:O2'	14:M3:11:LYS:HD3	2.12	0.49
1:1:1093:A:OP2	22:N1:120:LYS:NZ	2.46	0.49
1:1:1326:A:H2'	1:1:1327:C:O4'	2.12	0.49
1:1:2521:U:C2'	1:1:2522:G:H5'	2.41	0.49
1:1:3340:G:O3'	1:1:3341:U:H2'	2.12	0.49
85:1:4002:LLL:H312	85:1:4002:LLL:N32	2.28	0.49
2:3:49:G:N7	7:L5:58:LYS:HG3	2.27	0.49
5:L3:41:VAL:CA	5:L3:185:GLY:HA3	2.43	0.49
20:M9:69:SER:HB2	20:M9:74:ARG:HG3	1.94	0.49
22:N1:136:ARG:HD3	22:N1:139:ARG:NH1	2.26	0.49
23:N2:90:ARG:C	23:N2:92:TRP:H	2.20	0.49
35:O4:99:LYS:O	35:O4:103:LYS:HG2	2.13	0.49
45:2:531:C:H2'	45:2:532:U:H5''	1.95	0.49
45:2:772:G:N2	45:2:774:A:H1'	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:2:2045:LLL:H13	85:2:2045:LLL:H122	1.77	0.49
46:S0:70:PRO:HB2	46:S0:94:GLY:HA3	1.95	0.49
46:S0:120:LEU:HD12	46:S0:121:VAL:H	1.77	0.49
55:S9:142:ASN:O	55:S9:144:PRO:HD3	2.13	0.49
56:C0:14:TYR:CZ	56:C0:18:GLU:HG3	2.48	0.49
56:C0:77:ARG:NH1	56:C0:85:HIS:H	2.10	0.49
58:C2:50:LYS:NZ	77:E1:129:GLY:O	2.37	0.49
59:C3:21:ASN:O	59:C3:65:VAL:HG11	2.13	0.49
60:C4:85:ALA:N	60:C4:119:THR:HG22	2.27	0.49
62:C6:39:VAL:HG21	62:C6:48:VAL:HG11	1.95	0.49
78:SR:10:ARG:HH21	78:SR:51:ASP:HA	1.77	0.49
1:5:117:U:O4	10:l8:145:ASN:ND2	2.46	0.49
1:5:1104:G:O5'	1:5:1104:G:H8	1.95	0.49
1:5:1580:A:O2'	1:5:1581:C:H5''	2.13	0.49
1:5:1647:A:C2	1:5:1809:A:H1'	2.48	0.49
1:5:1738:C:H1'	35:o4:52:GLN:HG3	1.94	0.49
1:5:2268:U:H2'	1:5:2269:U:H2'	1.93	0.49
1:5:3182:G:H4'	17:m6:161:LYS:HD3	1.94	0.49
1:5:3263:G:H2'	1:5:3264:G:H8	1.76	0.49
6:l4:329:PRO:O	6:l4:330:TYR:HB3	2.12	0.49
7:l5:132:THR:HG21	7:l5:170:GLY:CA	2.43	0.49
9:l7:88:ARG:HB2	9:l7:108:LEU:HB3	1.94	0.49
23:n2:72:SER:HB2	23:n2:75:TYR:H	1.77	0.49
45:6:1:U:H1'	45:6:369:A:C8	2.47	0.49
45:6:704:C:H2'	45:6:705:U:O4'	2.12	0.49
45:6:1492:A:H8	45:6:1493:A:C4	2.29	0.49
46:s0:158:VAL:H	67:d1:69:LEU:HD12	1.77	0.49
47:s1:234:GLU:OE1	47:s1:235:GLY:N	2.45	0.49
54:s8:76:THR:HG22	54:s8:77:ARG:H	1.77	0.49
57:c1:16:GLN:NE2	57:c1:34:TRP:HB3	2.28	0.49
57:c1:34:TRP:CH2	57:c1:36:LYS:HB3	2.47	0.49
77:e1:85:TYR:O	77:e1:86:THR:HB	2.12	0.49
1:1:317:A:H2'	1:1:318:A:C8	2.48	0.49
1:1:372:A:C6	1:1:373:A:C6	3.01	0.49
1:1:499:G:H2'	1:1:500:C:C6	2.46	0.49
1:1:1351:U:O2	1:1:1351:U:H2'	2.12	0.49
1:1:1420:C:C5	6:L4:189:ALA:HA	2.47	0.49
1:1:2357:A:H2'	1:1:2358:A:H8	1.77	0.49
1:1:2932:U:O2	1:1:2934:A:H8	1.96	0.49
1:1:3041:U:H2'	1:1:3042:U:C6	2.47	0.49
3:4:7:U:H2'	3:4:8:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L3:37:ARG:O	5:L3:186:GLY:HA3	2.13	0.49
5:L3:256:HIS:HA	5:L3:257:PRO:C	2.37	0.49
8:L6:102:ASN:H	8:L6:102:ASN:HD22	1.61	0.49
9:L7:93:ASN:OD1	9:L7:93:ASN:N	2.45	0.49
16:M5:102:ALA:O	16:M5:106:VAL:HG12	2.12	0.49
16:M5:123:GLN:HA	16:M5:129:TYR:HD2	1.77	0.49
19:M8:18:ALA:HB1	19:M8:19:PRO:HD2	1.94	0.49
22:N1:17:ARG:O	22:N1:18:ASP:HB2	2.11	0.49
24:N3:81:GLN:HG3	24:N3:83:LYS:H	1.76	0.49
37:O6:40:VAL:O	37:O6:44:VAL:HG23	2.12	0.49
44:Q3:59:CYS:O	44:Q3:61:LYS:N	2.40	0.49
45:2:190:C:H1'	45:2:191:C:H5'	1.94	0.49
45:2:1587:A:H8	45:2:1587:A:O5'	1.95	0.49
45:2:1590:G:H2'	45:2:1591:C:H6	1.77	0.49
46:S0:124:THR:HG22	46:S0:174:TRP:NE1	2.27	0.49
49:S3:101:GLN:HG3	49:S3:126:VAL:HG22	1.95	0.49
57:C1:96:LYS:HD3	57:C1:97:TYR:CE2	2.47	0.49
77:E1:130:VAL:HG21	77:E1:143:LYS:HB3	1.95	0.49
1:5:1915:A:H2'	1:5:1916:U:C6	2.48	0.49
1:5:2549:G:C2	10:l8:33:ASN:O	2.66	0.49
1:5:2683:U:H2'	1:5:2684:C:H6	1.75	0.49
2:7:114:U:H5''	85:7:233:LLL:H611	1.94	0.49
5:l3:296:THR:HG21	5:l3:357:LYS:C	2.37	0.49
6:l4:3:ARG:HE	6:l4:22:LEU:HB3	1.78	0.49
10:l8:91:PHE:O	10:l8:95:ASN:ND2	2.46	0.49
14:m3:162:ASN:ND2	14:m3:164:GLU:HB2	2.28	0.49
18:m7:39:TRP:O	18:m7:114:VAL:HG12	2.13	0.49
21:n0:8:GLN:HG3	21:n0:26:ARG:NE	2.26	0.49
22:n1:39:ILE:HD12	22:n1:102:ARG:HB2	1.94	0.49
22:n1:52:MET:HA	22:n1:95:HIS:CD2	2.48	0.49
27:n6:106:ILE:HG21	27:n6:109:LEU:HD23	1.94	0.49
35:o4:57:LEU:HB3	35:o4:61:GLN:OE1	2.12	0.49
36:o5:24:LEU:HB3	36:o5:51:ILE:HG12	1.95	0.49
37:o6:79:SER:HB3	37:o6:82:ARG:CG	2.40	0.49
45:6:620:A:O2'	45:6:621:A:H5'	2.13	0.49
45:6:1031:U:H4'	45:6:1032:G:OP2	2.12	0.49
45:6:1684:U:H2'	45:6:1685:G:C8	2.48	0.49
47:s1:31:ASP:HB2	47:s1:95:ASN:HD22	1.77	0.49
55:s9:84:GLY:O	55:s9:107:ARG:HD3	2.12	0.49
56:c0:21:VAL:HG21	56:c0:46:LEU:HD11	1.95	0.49
56:c0:32:HIS:HD2	56:c0:33:GLU:N	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:c1:125:VAL:HG13	57:c1:137:PHE:HB3	1.93	0.49
58:c2:89:ILE:HG23	58:c2:90:LYS:O	2.11	0.49
61:c5:19:GLY:N	64:c8:94:ASP:O	2.46	0.49
64:c8:4:VAL:HG22	71:d5:78:ILE:HG23	1.94	0.49
1:1:4:U:H2'	1:1:5:G:C8	2.47	0.49
1:1:75:G:H5''	14:M3:58:VAL:CG1	2.42	0.49
1:1:314:U:H2'	1:1:315:C:C6	2.48	0.49
1:1:358:G:N2	1:1:361:A:OP2	2.41	0.49
1:1:946:U:H2'	1:1:947:G:C8	2.44	0.49
1:1:1045:C:OP1	12:M0:133:GLN:NE2	2.45	0.49
1:1:2309:A:N3	1:1:2961:G:O2'	2.36	0.49
5:L3:361:THR:HG23	5:L3:371:GLN:O	2.13	0.49
6:L4:89:ALA:O	6:L4:91:GLY:N	2.45	0.49
11:L9:84:LYS:O	11:L9:188:THR:HG23	2.12	0.49
18:M7:89:LYS:HA	18:M7:92:GLN:HG2	1.94	0.49
23:N2:41:ILE:HG12	23:N2:79:LEU:HD13	1.95	0.49
27:N6:33:ALA:HB2	27:N6:101:PRO:HB3	1.95	0.49
34:O3:52:VAL:HG21	34:O3:99:ARG:NH1	2.28	0.49
44:Q3:79:VAL:O	44:Q3:82:THR:HG22	2.12	0.49
45:2:826:U:H1'	45:2:847:A:C2	2.48	0.49
45:2:1565:C:OP1	64:C8:41:ARG:HG3	2.12	0.49
46:S0:126:PRO:O	46:S0:130:ALA:HB2	2.13	0.49
47:S1:90:GLU:HG2	47:S1:223:PHE:CZ	2.48	0.49
48:S2:38:VAL:O	48:S2:39:THR:OG1	2.29	0.49
48:S2:53:ILE:HG12	48:S2:72:LEU:HG	1.95	0.49
50:S4:118:GLU:HA	50:S4:121:TYR:HE1	1.77	0.49
56:C0:1:MET:HG2	56:C0:2:LEU:H	1.77	0.49
63:C7:83:GLN:OE1	63:C7:83:GLN:HA	2.11	0.49
66:D0:58:LEU:HD12	66:D0:88:LYS:HD2	1.95	0.49
78:SR:59:ARG:NH1	78:SR:95:ALA:O	2.45	0.49
79:SM:51:ARG:HG3	79:SM:53:ARG:HG2	1.95	0.49
1:5:14:U:H1'	26:m5:42:ARG:CZ	2.43	0.49
1:5:18:G:OP2	85:8:222:LLL:H412	2.12	0.49
1:5:112:U:O2'	1:5:113:C:OP2	2.26	0.49
1:5:269:G:H5'	16:m5:120:TRP:CE3	2.48	0.49
1:5:976:U:C5'	19:m8:144:ARG:HH12	2.24	0.49
1:5:1221:A:H3'	1:5:1222:G:H5'	1.94	0.49
1:5:1455:U:O2'	32:o1:26:LYS:NZ	2.45	0.49
1:5:1495:U:H2'	1:5:1842:A:C2	2.47	0.49
1:5:2515:A:H5''	16:m5:28:TRP:CD1	2.47	0.49
1:5:2716:U:H2'	1:5:2717:U:H5'	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:56:ILE:HD11	5:l3:356:LEU:HD13	1.94	0.49
6:l4:191:LYS:HG3	6:l4:194:TYR:CZ	2.48	0.49
7:l5:40:HIS:CE1	22:n1:69:LYS:HA	2.48	0.49
7:l5:155:THR:HA	7:l5:179:ARG:HA	1.94	0.49
12:m0:40:LYS:HA	12:m0:195:ALA:HB2	1.95	0.49
18:m7:48:LEU:HD22	18:m7:88:VAL:HG13	1.94	0.49
19:m8:96:PHE:HD1	19:m8:97:PRO:O	1.96	0.49
21:n0:46:GLN:HG2	21:n0:51:VAL:O	2.12	0.49
45:6:765:G:H1	55:s9:146:PHE:HZ	1.58	0.49
55:s9:77:ILE:O	55:s9:81:VAL:HG23	2.12	0.49
66:d0:24:ILE:HG12	66:d0:116:VAL:HG22	1.95	0.49
70:d4:14:SER:HA	70:d4:21:LYS:HA	1.94	0.49
1:1:118:U:O2	1:1:121:A:H5'	2.12	0.49
1:1:796:U:H2'	1:1:797:U:H6	1.78	0.49
1:1:815:G:OP2	38:O7:31:LYS:HE3	2.13	0.49
1:1:1483:G:C8	1:1:1485:G:C8	3.01	0.49
1:1:2190:U:C4	1:1:2191:U:C4	3.01	0.49
5:L3:291:GLU:OE1	5:L3:292:ALA:N	2.29	0.49
5:L3:346:THR:O	5:L3:348:ARG:N	2.46	0.49
5:L3:370:PHE:CD2	5:L3:376:LYS:HG3	2.48	0.49
6:L4:201:GLN:HG3	6:L4:202:ARG:O	2.12	0.49
21:N0:110:MET:HB3	21:N0:121:ILE:HD11	1.95	0.49
24:N3:45:ARG:HD3	24:N3:46:LEU:N	2.28	0.49
27:N6:79:ALA:HB1	27:N6:98:ASN:HB3	1.93	0.49
45:2:246:G:C6	45:2:247:A:C6	3.01	0.49
45:2:874:C:OP1	47:S1:159:SER:OG	2.28	0.49
45:2:1319:A:C2	45:2:1320:U:H1'	2.47	0.49
45:2:1388:A:OP1	63:C7:29:GLN:NE2	2.46	0.49
55:S9:38:ASN:ND2	55:S9:40:LYS:HB3	2.27	0.49
58:C2:61:VAL:HG23	58:C2:91:VAL:HG11	1.93	0.49
59:C3:91:LEU:HB3	59:C3:122:ILE:HG12	1.95	0.49
74:D8:28:VAL:HG12	74:D8:30:VAL:HG13	1.94	0.49
78:SR:183:LEU:HD22	78:SR:186:PHE:HE1	1.78	0.49
78:SR:282:SER:HB2	78:SR:285:ALA:HB3	1.94	0.49
1:5:83:U:H2'	1:5:84:U:O4'	2.12	0.49
1:5:192:C:H2'	1:5:193:C:C6	2.48	0.49
1:5:1877:U:C5'	1:5:1878:G:H5'	2.42	0.49
1:5:3094:A:H2'	1:5:3095:U:H6	1.77	0.49
5:l3:279:ASN:OD1	5:l3:345:ASN:ND2	2.45	0.49
6:l4:49:ALA:HA	6:l4:109:TRP:CZ2	2.48	0.49
8:l6:96:VAL:HG21	8:l6:141:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:n1:56:PHE:CZ	22:n1:78:LYS:HD3	2.48	0.49
45:6:1013:A:H2'	45:6:1014:G:O4'	2.12	0.49
45:6:1417:A:H2'	45:6:1418:G:O4'	2.13	0.49
85:6:2169:LLL:H322	85:6:2169:LLL:H51	1.77	0.49
46:s0:62:ARG:HG2	67:d1:37:ALA:HB3	1.94	0.49
47:s1:28:GLU:OE1	47:s1:50:LYS:HG3	2.13	0.49
54:s8:172:ARG:HE	54:s8:175:GLN:HG3	1.77	0.49
54:s8:190:ALA:HB1	54:s8:194:ARG:HH22	1.77	0.49
58:c2:132:GLU:O	58:c2:135:MET:HB3	2.12	0.49
68:d2:95:PRO:HD3	68:d2:130:TYR:CD1	2.47	0.49
73:d7:19:HIS:HB3	73:d7:22:LYS:HD3	1.93	0.49
1:1:900:G:H1'	1:1:1589:A:N6	2.28	0.49
1:1:1085:A:OP1	22:N1:35:LYS:HE3	2.13	0.49
1:1:1940:G:OP1	20:M9:75:HIS:ND1	2.46	0.49
1:1:2651:G:C4	1:1:2796:G:C2	3.01	0.49
1:1:3357:U:H2'	1:1:3358:U:C6	2.48	0.49
14:M3:75:PHE:O	14:M3:79:GLU:HB2	2.13	0.49
21:N0:99:ARG:O	21:N0:103:VAL:HG23	2.13	0.49
36:O5:9:LEU:HD13	36:O5:54:VAL:HA	1.95	0.49
45:2:1063:U:H3'	45:2:1064:G:H8	1.78	0.49
45:2:1793:G:O2'	45:2:1795:U:OP2	2.29	0.49
46:S0:188:LEU:CD1	46:S0:189:VAL:H	2.25	0.49
47:S1:28:GLU:N	47:S1:48:VAL:O	2.45	0.49
47:S1:110:LEU:O	47:S1:114:VAL:HG23	2.12	0.49
47:S1:205:PHE:CG	47:S1:206:PRO:HD2	2.47	0.49
49:S3:211:PRO:HG3	63:C7:20:TYR:CZ	2.47	0.49
54:S8:63:GLY:HA3	54:S8:179:CYS:O	2.13	0.49
78:SR:103:PHE:CE1	78:SR:138:GLY:HA2	2.48	0.49
1:5:595:G:C8	1:5:609:G:C6	3.00	0.49
1:5:1366:A:C2	1:5:1367:G:C4	3.00	0.49
1:5:1564:U:O4	1:5:1574:C:N4	2.39	0.49
1:5:2309:A:H8	1:5:2309:A:OP1	1.96	0.49
2:7:1:G:H21	7:l5:269:SER:CB	2.25	0.49
4:l2:59:ALA:N	4:l2:76:PHE:O	2.35	0.49
6:l4:271:LYS:HB2	6:l4:274:TYR:HB3	1.94	0.49
8:l6:53:VAL:H	8:l6:67:GLY:HA2	1.78	0.49
19:m8:94:PHE:CE2	29:n8:119:PRO:HD3	2.48	0.49
45:6:78:A:C2	52:s6:178:LEU:HD23	2.48	0.49
45:6:321:C:H1'	45:6:322:G:OP1	2.12	0.49
45:6:330:G:H2'	45:6:331:A:O4'	2.13	0.49
45:6:1619:C:H2'	45:6:1620:C:H6	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:s1:113:MET:HE2	47:s1:142:PHE:HE2	1.77	0.49
49:s3:195:SER:O	49:s3:196:ARG:HB3	2.12	0.49
51:s5:82:PHE:CE2	74:d8:49:ARG:HD2	2.48	0.49
52:s6:54:GLY:C	52:s6:63:MET:HE3	2.38	0.49
57:c1:67:ARG:O	57:c1:127:GLN:HB3	2.12	0.49
62:c6:57:LEU:HD12	62:c6:57:LEU:H	1.78	0.49
1:1:188:U:H1'	1:1:208:C:H1'	1.94	0.48
1:1:561:C:H2'	1:1:562:C:C6	2.48	0.48
1:1:718:G:O6	1:1:751:A:H1'	2.12	0.48
1:1:1498:A:H2'	1:1:1499:C:C6	2.49	0.48
1:1:2948:C:O2'	5:L3:242:THR:HG22	2.13	0.48
2:3:59:U:H2'	2:3:60:G:H8	1.78	0.48
3:4:41:A:H61	3:4:103:G:C2'	2.26	0.48
5:L3:286:GLY:HA3	5:L3:321:PHE:CE2	2.48	0.48
6:L4:229:ASN:OD1	6:L4:231:ALA:N	2.34	0.48
7:L5:41:LYS:HG2	22:N1:69:LYS:O	2.13	0.48
12:M0:44:ASP:HB3	12:M0:185:ARG:NH1	2.25	0.48
14:M3:158:ALA:HA	29:N8:97:GLU:HA	1.94	0.48
15:M4:120:VAL:O	15:M4:124:ARG:HG3	2.13	0.48
18:M7:23:ARG:HA	18:M7:143:PRO:HB3	1.95	0.48
45:2:96:G:H5'	45:2:460:A:O2'	2.13	0.48
45:2:268:C:O2'	45:2:269:G:H5'	2.12	0.48
45:2:423:G:H4'	45:2:424:C:OP1	2.13	0.48
45:2:587:C:C4	45:2:588:U:C4	3.01	0.48
45:2:966:A:H2'	45:2:967:A:C8	2.48	0.48
45:2:1244:A:O2'	45:2:1245:G:OP1	2.30	0.48
45:2:1550:A:P	61:C5:42:ARG:HH22	2.36	0.48
45:2:1758:U:H2'	45:2:1759:C:C6	2.48	0.48
47:S1:88:VAL:CG1	47:S1:96:LEU:HD23	2.42	0.48
49:S3:113:LEU:HD13	49:S3:114:ALA:H	1.77	0.48
49:S3:138:VAL:HA	49:S3:183:GLY:O	2.13	0.48
50:S4:104:ASP:OD1	50:S4:110:ALA:HB2	2.13	0.48
52:S6:142:ARG:HG2	52:S6:148:SER:O	2.13	0.48
52:S6:199:GLN:HG2	52:S6:202:ARG:HH12	1.78	0.48
56:C0:31:LYS:HA	56:C0:37:THR:O	2.13	0.48
56:C0:55:VAL:HA	56:C0:69:THR:HG23	1.95	0.48
61:C5:110:GLU:HB2	64:C8:119:ILE:HD11	1.94	0.48
66:D0:118:VAL:HG22	66:D0:119:ALA:CA	2.42	0.48
1:5:88:A:H2'	1:5:89:A:O4'	2.13	0.48
1:5:160:G:H2'	1:5:161:G:H5''	1.95	0.48
1:5:824:C:H2'	1:5:825:U:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1404:G:N2	1:5:1407:A:OP2	2.43	0.48
1:5:1578:C:C2'	1:5:1579:C:H5'	2.41	0.48
1:5:1794:G:O2'	1:5:1795:U:H5'	2.13	0.48
1:5:2596:U:H2'	1:5:2597:U:O4'	2.13	0.48
1:5:3174:A:H2'	1:5:3175:U:H5'	1.94	0.48
2:7:72:A:N6	85:7:232:LLL:H312	2.28	0.48
85:8:222:LLL:H212	36:o5:78:LYS:NZ	2.11	0.48
7:l5:236:LEU:HA	7:l5:239:ILE:HG13	1.94	0.48
11:l9:86:TYR:CG	11:l9:151:VAL:HG13	2.48	0.48
13:m1:62:ASN:C	43:q2:103:ALA:HB2	2.38	0.48
18:m7:38:GLY:H	18:m7:114:VAL:HG13	1.78	0.48
20:m9:163:ARG:HD3	45:6:813:U:C2	2.47	0.48
23:n2:20:SER:OG	23:n2:21:SER:N	2.46	0.48
36:o5:101:THR:HG22	36:o5:104:GLN:HB2	1.94	0.48
45:6:189:C:C2'	45:6:190:C:H5'	2.43	0.48
45:6:416:A:H5'	45:6:417:A:N7	2.28	0.48
45:6:748:U:OP1	68:d2:82:LYS:HE3	2.13	0.48
45:6:1553:G:O6	61:c5:43:ARG:NH1	2.46	0.48
46:s0:74:VAL:HG22	46:s0:96:THR:HG23	1.95	0.48
47:s1:160:HIS:O	47:s1:164:ILE:HG13	2.13	0.48
48:s2:41:LEU:HD11	48:s2:56:ILE:HG21	1.95	0.48
49:s3:106:LYS:HG3	49:s3:175:VAL:HG23	1.93	0.48
60:c4:43:THR:OG1	60:c4:46:MET:HG3	2.13	0.48
64:c8:14:ILE:HG23	64:c8:14:ILE:O	2.13	0.48
77:e1:92:LYS:C	77:e1:93:HIS:CG	2.91	0.48
78:sR:278:PHE:HD1	78:sR:286:GLU:HG3	1.78	0.48
1:1:77:A:O2'	16:M5:176:LYS:NZ	2.44	0.48
1:1:842:G:H2'	1:1:843:A:H8	1.78	0.48
1:1:1317:A:H3'	1:1:1317:A:OP2	2.12	0.48
1:1:1655:G:H1'	1:1:1800:A:N6	2.28	0.48
1:1:2125:A:H4'	45:2:1657:U:O2	2.13	0.48
2:3:121:U:OP2	7:L5:265:TYR:OH	2.30	0.48
9:L7:92:ILE:HD11	19:M8:4:ASP:N	2.27	0.48
31:O0:25:LEU:HD23	31:O0:90:VAL:HG13	1.94	0.48
40:O9:31:THR:O	40:O9:32:ASN:HB2	2.13	0.48
45:2:484:C:N4	45:2:503:G:H22	2.11	0.48
45:2:862:A:H3'	59:C3:16:ILE:HG21	1.95	0.48
45:2:1266:U:H2'	45:2:1267:G:H8	1.78	0.48
45:2:1756:A:O2'	45:2:1757:G:O5'	2.30	0.48
65:C9:23:GLN:HA	65:C9:55:TYR:CE1	2.48	0.48
1:5:314:U:H2'	1:5:315:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:699:A:H5''	1:5:699:A:H8	1.77	0.48
1:5:847:A:H2'	1:5:848:A:C8	2.49	0.48
1:5:1557:A:N7	1:5:1559:A:N6	2.61	0.48
1:5:3044:G:O2'	1:5:3045:G:H5'	2.13	0.48
2:7:36:C:H2'	2:7:37:G:C8	2.48	0.48
4:12:109:GLU:HG3	45:6:922:G:H4'	1.95	0.48
5:13:53:MET:HE2	5:13:77:THR:HG21	1.94	0.48
6:14:44:LYS:O	6:14:47:ARG:HD3	2.13	0.48
6:14:52:VAL:HB	6:14:99:MET:HE2	1.95	0.48
7:15:280:GLU:N	7:15:280:GLU:OE2	2.46	0.48
9:17:173:LEU:HB3	9:17:178:ILE:HB	1.95	0.48
16:m5:98:LEU:HD23	16:m5:128:LYS:HD2	1.95	0.48
19:m8:26:LEU:O	19:m8:30:VAL:HG23	2.13	0.48
26:n5:67:ILE:HD12	26:n5:121:LYS:HG3	1.95	0.48
36:o5:45:LYS:O	36:o5:49:LYS:HG2	2.13	0.48
39:o8:36:LYS:HD2	39:o8:37:PRO:HD2	1.94	0.48
45:6:53:G:H2'	45:6:54:C:O4'	2.13	0.48
45:6:332:U:O2'	54:s8:5:ARG:NH1	2.47	0.48
45:6:436:A:H5''	45:6:437:A:OP1	2.13	0.48
46:s0:198:MET:HE2	46:s0:198:MET:HA	1.95	0.48
51:s5:89:ILE:HD12	51:s5:90:ILE:N	2.28	0.48
62:c6:109:PHE:O	62:c6:113:ASP:N	2.45	0.48
63:c7:77:GLU:HA	63:c7:80:ARG:HB2	1.94	0.48
64:c8:36:LYS:O	64:c8:102:ALA:N	2.45	0.48
74:d8:32:PHE:CE2	74:d8:40:ILE:HD13	2.46	0.48
78:sR:123:ILE:HD11	78:sR:156:VAL:HG23	1.96	0.48
1:1:677:A:H4'	1:1:678:G:O5'	2.13	0.48
1:1:744:A:H4'	19:M8:142:GLY:O	2.13	0.48
1:1:993:G:C5	1:1:2637:A:C2	3.02	0.48
1:1:1588:A:C4	40:O9:4:GLN:HG2	2.48	0.48
1:1:1894:U:O2'	1:1:3054:U:OP1	2.25	0.48
1:1:2094:C:H2'	1:1:2095:G:C8	2.47	0.48
1:1:3132:C:H2'	1:1:3133:C:C6	2.48	0.48
1:1:3317:U:H6	85:1:3997:LLL:H62	1.76	0.48
1:1:3375:A:H5''	1:1:3378:C:H5	1.78	0.48
2:3:48:U:O4	7:L5:58:LYS:HE3	2.13	0.48
5:L3:283:TYR:HB2	5:L3:323:MET:HG2	1.95	0.48
6:L4:290:ILE:HG12	19:M8:35:PHE:CD2	2.48	0.48
6:L4:304:GLN:HB3	6:L4:306:THR:O	2.13	0.48
13:M1:139:THR:C	13:M1:140:ARG:HD2	2.39	0.48
22:N1:112:ASN:HA	22:N1:115:LYS:HE3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:N5:34:LEU:HD13	26:N5:35:PRO:O	2.13	0.48
28:N7:104:PRO:O	28:N7:108:GLU:HG3	2.12	0.48
32:O1:51:LEU:HD23	32:O1:93:VAL:HB	1.95	0.48
36:O5:85:THR:HB	36:O5:88:LEU:HG	1.96	0.48
38:O7:39:TYR:CD2	38:O7:40:PRO:HA	2.48	0.48
45:2:544:A:H5'	45:2:545:A:OP2	2.13	0.48
45:2:989:U:H2'	45:2:990:C:C6	2.48	0.48
45:2:1160:A:H2'	45:2:1161:C:C6	2.48	0.48
45:2:1273:G:N7	45:2:1430:U:H3'	2.28	0.48
45:2:1433:G:H2'	45:2:1434:U:H6	1.77	0.48
49:S3:113:LEU:HD11	49:S3:117:ARG:CD	2.43	0.48
51:S5:108:LEU:HD21	62:C6:44:LEU:HD11	1.94	0.48
53:S7:129:LEU:HD22	53:S7:169:PHE:CD1	2.49	0.48
55:S9:31:ALA:HA	55:S9:36:LEU:HD12	1.94	0.48
56:C0:1:MET:HG2	56:C0:2:LEU:N	2.28	0.48
57:C1:2:SER:HB2	57:C1:81:HIS:CD2	2.48	0.48
64:C8:41:ARG:CD	65:C9:46:PRO:HD3	2.43	0.48
78:SR:39:ASP:O	78:SR:40:LYS:HE3	2.13	0.48
78:SR:44:SER:C	78:SR:58:VAL:HG22	2.39	0.48
1:5:213:A:H1'	27:n6:3:LYS:HB3	1.95	0.48
1:5:1223:A:N1	1:5:1287:A:O2'	2.36	0.48
1:5:1523:U:H1'	26:n5:111:ASN:HD22	1.78	0.48
1:5:1564:U:H3	1:5:1575:A:H62	1.61	0.48
1:5:2267:C:O2'	1:5:2268:U:H5'	2.14	0.48
1:5:2406:C:H2'	1:5:2407:C:C6	2.48	0.48
1:5:2419:A:H2'	1:5:2420:C:C6	2.48	0.48
6:l4:74:ILE:HD13	6:l4:93:MET:HE1	1.95	0.48
7:l5:152:ARG:HH11	7:l5:152:ARG:HB2	1.78	0.48
7:l5:261:THR:H	7:l5:264:GLN:HB2	1.79	0.48
16:m5:22:LEU:O	16:m5:26:ARG:HG3	2.13	0.48
18:m7:22:LEU:HD12	18:m7:146:ILE:HG13	1.93	0.48
32:o1:74:ARG:HH21	32:o1:109:VAL:HG21	1.79	0.48
36:o5:17:LEU:HB3	36:o5:58:ILE:HG12	1.95	0.48
83:p1:46:UNK:HA	83:p1:47:UNK:HA	1.55	0.48
45:6:323:A:OP2	54:s8:10:LYS:HG3	2.14	0.48
45:6:1558:U:H3	61:c5:122:THR:CG2	2.25	0.48
46:s0:71:GLU:O	46:s0:96:THR:HG22	2.14	0.48
47:s1:67:GLU:HG3	47:s1:85:LYS:HG3	1.95	0.48
47:s1:81:PHE:CE1	47:s1:109:LYS:HE2	2.48	0.48
50:s4:129:VAL:HG11	50:s4:155:LYS:HA	1.95	0.48
52:s6:169:TYR:CE2	52:s6:171:LYS:HE3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:s7:62:VAL:HG13	53:s7:63:PRO:HD2	1.96	0.48
63:c7:95:ARG:HA	63:c7:96:SER:HA	1.53	0.48
73:d7:58:SER:OG	73:d7:59:CYS:N	2.46	0.48
78:sR:5:GLU:HA	78:sR:318:ALA:H	1.79	0.48
1:1:359:U:H4'	1:1:817:A:N6	2.28	0.48
1:1:559:A:H4'	1:1:559:A:OP1	2.13	0.48
1:1:714:G:HO2'	1:1:753:C:HO2'	1.60	0.48
1:1:887:G:H2'	1:1:888:A:C8	2.48	0.48
1:1:1593:A:N3	1:1:1615:C:O2'	2.39	0.48
1:1:2947:G:N3	5:L3:250:ALA:HB1	2.28	0.48
1:1:3209:A:OP2	21:N0:161:LYS:HD2	2.14	0.48
1:1:3275:U:H5'	34:O3:68:TRP:HZ2	1.78	0.48
1:1:3294:A:H2'	1:1:3295:A:O4'	2.13	0.48
8:L6:40:LEU:HB3	8:L6:84:VAL:CG2	2.43	0.48
10:L8:75:ILE:HG22	10:L8:76:ALA:H	1.78	0.48
11:L9:176:LEU:O	11:L9:180:TYR:OH	2.22	0.48
15:M4:115:PHE:O	15:M4:119:GLN:HG3	2.14	0.48
22:N1:63:VAL:O	22:N1:75:ILE:HG22	2.14	0.48
26:N5:105:VAL:HG13	26:N5:130:TYR:CD2	2.48	0.48
33:O2:4:LEU:HD12	33:O2:5:PRO:HD3	1.96	0.48
43:Q2:13:LYS:O	43:Q2:15:LYS:HG2	2.13	0.48
45:2:61:A:H8	45:2:269:G:HO2'	1.59	0.48
45:2:121:U:O2'	50:S4:33:ALA:O	2.23	0.48
45:2:743:U:OP1	53:S7:108:GLN:N	2.38	0.48
45:2:940:A:H2'	45:2:941:A:C8	2.48	0.48
45:2:1439:C:O5'	45:2:1439:C:H6	1.96	0.48
46:S0:180:GLU:O	46:S0:184:LEU:HG	2.13	0.48
52:S6:28:PHE:CE1	52:S6:104:PRO:HG3	2.48	0.48
53:S7:23:ALA:O	53:S7:27:LEU:HG	2.12	0.48
57:C1:80:MET:HB3	57:C1:83:THR:HG23	1.94	0.48
64:C8:129:TRP:O	79:SM:68:ARG:HB2	2.14	0.48
69:D3:118:PRO:O	69:D3:120:VAL:HG23	2.13	0.48
77:E1:147:VAL:HG12	77:E1:148:TYR:CG	2.48	0.48
78:SR:166:SER:HA	78:SR:184:ASN:HD21	1.78	0.48
78:SR:225:LEU:O	78:SR:228:LYS:HG3	2.13	0.48
1:5:437:G:OP1	1:5:437:G:H4'	2.13	0.48
1:5:743:C:N3	19:m8:141:ARG:NH1	2.61	0.48
1:5:1497:C:H2'	1:5:1498:A:H8	1.78	0.48
4:l2:187:HIS:ND1	4:l2:190:ARG:NH1	2.58	0.48
12:m0:89:VAL:HG22	12:m0:136:PHE:CE1	2.48	0.48
19:m8:99:THR:HB	19:m8:100:THR:H	1.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:o0:44:ILE:HG12	31:o0:89:VAL:HG23	1.96	0.48
38:o7:14:LYS:HZ3	40:o9:51:ILE:HD11	1.78	0.48
45:6:275:C:H42	45:6:281:G:H1	1.60	0.48
45:6:699:U:H2'	45:6:700:C:C6	2.48	0.48
45:6:919:A:H5'	60:c4:35:GLY:HA3	1.95	0.48
50:s4:112:HIS:NE2	50:s4:237:SER:O	2.46	0.48
51:s5:148:ARG:HE	74:d8:22:ARG:NH2	2.11	0.48
68:d2:5:SER:HB3	68:d2:8:ALA:HB3	1.96	0.48
73:d7:21:LEU:HD22	73:d7:26:GLN:NE2	2.29	0.48
1:1:24:G:H5''	38:O7:58:THR:HG22	1.96	0.48
1:1:715:A:H4'	1:1:716:A:OP1	2.13	0.48
1:1:1086:C:H1'	30:N9:47:LEU:HD21	1.95	0.48
1:1:1385:C:OP2	6:L4:202:ARG:HD2	2.14	0.48
1:1:1497:C:O2'	1:1:1602:A:N3	2.44	0.48
1:1:2541:U:H1'	1:1:2542:U:OP2	2.14	0.48
1:1:2738:A:H5'	30:N9:36:ASP:OD1	2.12	0.48
1:1:2916:U:H5	1:1:2935:U:HO2'	1.61	0.48
1:1:3351:U:H5''	1:1:3352:U:OP1	2.12	0.48
5:L3:56:ILE:HD13	5:L3:76:VAL:HG21	1.96	0.48
9:L7:59:GLU:O	9:L7:63:ILE:HG13	2.14	0.48
10:L8:94:PHE:CE1	10:L8:150:LEU:HD12	2.47	0.48
10:L8:105:LYS:O	10:L8:109:LEU:N	2.45	0.48
20:M9:38:ARG:HA	20:M9:41:ILE:HG22	1.95	0.48
24:N3:31:ALA:HB2	24:N3:69:LEU:HD23	1.95	0.48
27:N6:55:GLU:OE2	27:N6:69:LYS:NZ	2.46	0.48
35:O4:46:ASP:HB3	35:O4:84:CYS:SG	2.53	0.48
45:2:65:A:H2	45:2:67:A:N7	2.11	0.48
45:2:271:A:H5'	45:2:272:U:OP2	2.14	0.48
45:2:400:A:O5'	54:S8:25:ARG:HD3	2.13	0.48
45:2:918:U:H2'	45:2:919:A:C8	2.49	0.48
45:2:1234:A:OP2	45:2:1245:G:O2'	2.32	0.48
45:2:1591:C:H2'	45:2:1592:A:C8	2.48	0.48
45:2:1650:U:H2'	45:2:1651:A:C8	2.48	0.48
62:C6:39:VAL:O	62:C6:41:PRO:HD3	2.14	0.48
66:D0:20:ILE:O	66:D0:118:VAL:HG21	2.12	0.48
1:5:32:U:H2'	1:5:33:G:O4'	2.14	0.48
1:5:85:A:O2'	85:5:4155:LLL:H221	2.14	0.48
1:5:144:A:H2'	1:5:145:G:O4'	2.14	0.48
1:5:158:G:H2'	1:5:159:A:C8	2.48	0.48
1:5:210:U:O2'	1:5:229:G:O2'	2.31	0.48
1:5:211:A:OP2	6:l4:221:ASN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:374:A:N3	1:5:376:G:H5''	2.28	0.48
1:5:1021:G:H22	1:5:1032:C:H1'	1.78	0.48
1:5:1281:G:OP1	82:p0:55:LYS:NZ	2.46	0.48
1:5:1784:G:H2'	1:5:1785:U:O4'	2.13	0.48
1:5:2767:U:H2'	1:5:2768:U:C6	2.49	0.48
4:l2:68:LYS:HG2	4:l2:69:TYR:N	2.28	0.48
4:l2:180:LEU:HD23	4:l2:180:LEU:HA	1.58	0.48
5:l3:89:VAL:HG22	5:l3:195:ALA:HB1	1.96	0.48
12:m0:46:PHE:HB3	12:m0:140:THR:CA	2.44	0.48
13:m1:12:LEU:HD23	13:m1:133:ARG:NH1	2.28	0.48
17:m6:124:LEU:HA	17:m6:124:LEU:HD12	1.59	0.48
22:n1:102:ARG:O	22:n1:105:PHE:HB3	2.14	0.48
23:n2:28:PHE:CE1	23:n2:83:TYR:HE2	2.29	0.48
45:6:273:G:H8	45:6:273:G:O5'	1.95	0.48
45:6:923:A:O2'	45:6:924:A:H5'	2.13	0.48
45:6:987:G:H5''	45:6:988:A:OP1	2.12	0.48
45:6:1374:C:H2'	45:6:1375:A:C8	2.49	0.48
46:s0:106:SER:O	46:s0:115:PHE:HD2	1.96	0.48
47:s1:48:VAL:HG21	47:s1:61:LEU:HD22	1.94	0.48
48:s2:120:GLU:HG2	79:sM:120:GLU:CD	2.38	0.48
49:s3:32:GLU:OE1	49:s3:32:GLU:N	2.47	0.48
49:s3:221:SER:OG	49:s3:222:VAL:N	2.47	0.48
52:s6:69:LEU:HD13	52:s6:73:ILE:HG21	1.95	0.48
53:s7:30:SER:HB2	53:s7:34:LEU:HD12	1.95	0.48
57:c1:112:SER:C	57:c1:114:ALA:H	2.20	0.48
63:c7:86:PRO:C	63:c7:88:VAL:H	2.20	0.48
65:c9:61:VAL:HG21	65:c9:104:VAL:HG11	1.94	0.48
72:d6:30:ILE:HG12	72:d6:35:ALA:HB2	1.95	0.48
78:sR:289:ALA:HA	78:sR:305:TYR:HA	1.95	0.48
1:1:950:G:N7	1:1:1367:G:C6	2.81	0.48
1:1:1176:C:H2'	1:1:1177:G:H21	1.78	0.48
1:1:1393:A:N3	1:1:1419:A:O2'	2.42	0.48
1:1:1821:U:N3	35:O4:67:LYS:HD2	2.27	0.48
1:1:2289:U:H2'	1:1:2290:C:C6	2.49	0.48
1:1:2549:G:C2	10:L8:35:GLY:HA2	2.49	0.48
5:L3:47:LEU:HG	5:L3:335:ILE:HD11	1.94	0.48
5:L3:60:LEU:HD11	5:L3:62:ARG:HB2	1.94	0.48
6:L4:302:ALA:HB2	19:M8:39:ARG:HH22	1.78	0.48
11:L9:169:ASN:O	11:L9:170:LYS:HE3	2.13	0.48
13:M1:85:LYS:HA	13:M1:89:TYR:CE2	2.48	0.48
17:M6:111:PRO:O	17:M6:112:TYR:CD2	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:417:A:H4'	45:2:418:G:O5'	2.13	0.48
45:2:911:U:OP1	45:2:913:G:N2	2.47	0.48
45:2:980:G:H4'	45:2:1776:A:H4'	1.96	0.48
49:S3:210:GLU:OE2	63:C7:19:ARG:NH1	2.47	0.48
50:S4:176:ASP:HB2	50:S4:179:LYS:NZ	2.29	0.48
55:S9:76:LEU:O	55:S9:80:LEU:HB2	2.14	0.48
55:S9:163:PRO:C	55:S9:165:GLY:H	2.21	0.48
62:C6:32:ASN:HA	62:C6:68:ARG:HD2	1.95	0.48
66:D0:55:PRO:HB3	66:D0:91:ILE:HG12	1.95	0.48
1:5:307:A:O2'	1:5:2223:A:N3	2.45	0.48
1:5:1668:G:H4'	35:o4:22:VAL:HG12	1.95	0.48
1:5:2098:C:HO2'	1:5:2099:A:P	2.35	0.48
1:5:2249:G:C8	1:5:2249:G:H3'	2.49	0.48
1:5:3245:A:C2	1:5:3246:G:C2	3.01	0.48
3:8:154:C:H5''	10:l8:181:LYS:HG2	1.95	0.48
6:l4:31:ARG:HB3	6:l4:34:ILE:HG13	1.95	0.48
11:l9:167:VAL:HG21	87:l9:301:HOH:O	2.13	0.48
12:m0:50:VAL:HG21	12:m0:148:VAL:HG11	1.95	0.48
12:m0:170:LYS:HD2	12:m0:176:LEU:N	2.28	0.48
27:n6:39:LEU:HD11	27:n6:107:THR:C	2.39	0.48
45:6:277:U:O2'	45:6:278:U:OP2	2.29	0.48
45:6:811:A:N3	45:6:858:G:H1'	2.28	0.48
45:6:1018:U:O4	45:6:1019:A:N6	2.47	0.48
45:6:1402:G:H5'	63:c7:4:VAL:HG22	1.95	0.48
45:6:1714:A:H2'	45:6:1715:G:O4'	2.14	0.48
45:6:1796:C:OP2	72:d6:5:ARG:NH1	2.40	0.48
46:s0:184:LEU:HD12	67:d1:45:ALA:HB2	1.96	0.48
49:s3:202:LEU:O	49:s3:204:ASP:N	2.40	0.48
51:s5:90:ILE:HD13	51:s5:90:ILE:HA	1.77	0.48
51:s5:190:ILE:O	51:s5:194:LEU:HB2	2.13	0.48
58:c2:50:LYS:NZ	77:e1:129:GLY:O	2.25	0.48
68:d2:69:LEU:HD11	68:d2:72:CYS:HB3	1.94	0.48
78:sR:126:SER:HG	78:sR:128:ASP:CG	2.20	0.48
1:1:9:U:P	16:M5:41:ARG:HH21	2.37	0.48
1:1:1079:A:H4'	7:L5:140:ARG:O	2.13	0.48
1:1:1307:G:OP1	17:M6:59:ARG:NH1	2.46	0.48
1:1:1655:G:OP1	35:O4:40:THR:OG1	2.29	0.48
1:1:1742:U:N3	1:1:1743:G:N7	2.62	0.48
1:1:2567:C:H42	1:1:2574:G:H1	1.62	0.48
4:L2:19:HIS:ND1	4:L2:190:ARG:O	2.31	0.48
4:L2:48:ILE:HD11	44:Q3:63:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L6:96:VAL:HG22	8:L6:144:ALA:HB1	1.95	0.48
11:L9:102:ASN:O	11:L9:113:GLU:N	2.47	0.48
17:M6:14:HIS:O	17:M6:41:LEU:HD12	2.13	0.48
21:N0:110:MET:CB	21:N0:121:ILE:HD11	2.44	0.48
26:N5:132:ALA:O	26:N5:135:ILE:HG22	2.14	0.48
28:N7:5:LEU:O	28:N7:6:LYS:HG2	2.13	0.48
45:2:241:U:H5''	45:2:242:U:OP2	2.14	0.48
46:S0:55:GLU:HG2	67:D1:79:LEU:HD23	1.94	0.48
47:S1:205:PHE:HB3	47:S1:207:LEU:CD1	2.43	0.48
48:S2:53:ILE:O	48:S2:56:ILE:N	2.47	0.48
48:S2:58:LEU:HD12	48:S2:59:HIS:CE1	2.48	0.48
56:C0:12:HIS:HD2	56:C0:76:LEU:HB3	1.79	0.48
62:C6:77:GLN:O	62:C6:81:ILE:HG23	2.12	0.48
67:D1:39:VAL:HG12	67:D1:45:ALA:HA	1.96	0.48
1:5:408:A:N6	3:8:15:G:H1'	2.28	0.48
1:5:873:C:H4'	1:5:874:U:OP2	2.13	0.48
1:5:1261:G:H5''	1:5:1262:G:OP1	2.13	0.48
1:5:2352:A:H2'	1:5:2353:G:C8	2.49	0.48
1:5:2609:A:H1'	16:m5:87:GLN:HE21	1.78	0.48
1:5:2716:U:C2'	1:5:2717:U:H5'	2.44	0.48
5:l3:89:VAL:CG2	5:l3:195:ALA:HB1	2.43	0.48
5:l3:336:VAL:HG12	5:l3:338:LEU:HD12	1.95	0.48
13:m1:7:ASN:N	13:m1:7:ASN:OD1	2.45	0.48
81:n4:23:ARG:HG2	81:n4:24:GLY:N	2.26	0.48
26:n5:98:ALA:O	26:n5:102:LEU:HB2	2.13	0.48
32:o1:61:LYS:HG3	32:o1:62:ARG:HG2	1.95	0.48
45:6:304:U:P	57:c1:136:ARG:HE	2.36	0.48
47:s1:129:THR:OG1	47:s1:131:ASP:O	2.21	0.48
47:s1:175:GLU:HG2	47:s1:193:ILE:HD12	1.95	0.48
50:s4:192:ILE:HD13	50:s4:238:LEU:HD22	1.95	0.48
51:s5:37:GLN:NE2	62:c6:53:LEU:HD22	2.28	0.48
61:c5:125:PRO:HG3	64:c8:129:TRP:CH2	2.49	0.48
73:d7:37:CYS:O	73:d7:39:GLY:N	2.47	0.48
73:d7:81:ARG:O	73:d7:82:LYS:HB2	2.14	0.48
1:1:650:C:O5'	1:1:650:C:H6	1.96	0.48
1:1:1230:G:H1	1:1:1279:C:N4	2.11	0.48
1:1:1481:A:H2'	1:1:1481:A:N3	2.29	0.48
1:1:1504:A:N1	1:1:1515:A:O2'	2.42	0.48
1:1:1570:U:O2	1:1:1571:A:H1'	2.14	0.48
1:1:1703:U:H1'	1:1:1743:G:N2	2.28	0.48
1:1:1733:G:H2'	1:1:1734:G:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1912:U:N3	1:1:2122:G:OP2	2.45	0.48
2:3:46:A:P	7:L5:158:ARG:HH11	2.37	0.48
7:L5:287:ALA:O	7:L5:290:ILE:HG12	2.14	0.48
12:M0:51:HIS:ND1	12:M0:134:ILE:HD13	2.29	0.48
14:M3:50:PRO:O	14:M3:51:LEU:HB2	2.14	0.48
19:M8:147:ARG:HB3	19:M8:150:VAL:HG12	1.94	0.48
23:N2:18:ASP:H	23:N2:104:ARG:HA	1.79	0.48
24:N3:30:GLY:HA3	24:N3:66:LYS:HD2	1.96	0.48
38:O7:63:ARG:HD3	38:O7:65:ARG:HD3	1.96	0.48
45:2:90:C:H2'	45:2:91:G:H8	1.79	0.48
45:2:886:U:O2	60:C4:123:SER:N	2.32	0.48
45:2:1197:C:O2'	66:D0:73:GLY:O	2.22	0.48
45:2:1252:C:O4'	77:E1:133:ALA:HB2	2.14	0.48
45:2:1491:U:H4'	45:2:1492:A:OP1	2.13	0.48
45:2:1530:C:H2'	45:2:1531:G:O4'	2.14	0.48
47:S1:171:ILE:HD12	47:S1:197:ILE:HD13	1.95	0.48
49:S3:134:CYS:HA	49:S3:187:LYS:O	2.14	0.48
52:S6:7:TYR:HD2	52:S6:8:PRO:HD2	1.79	0.48
52:S6:22:HIS:HA	52:S6:25:ARG:HH11	1.78	0.48
54:S8:192:TYR:O	54:S8:196:LEU:HB2	2.13	0.48
1:5:601:U:H2'	1:5:602:A:O4'	2.13	0.48
1:5:718:G:OP1	29:n8:117:ARG:NH2	2.47	0.48
1:5:729:C:O2'	19:m8:79:LYS:HE2	2.14	0.48
1:5:731:U:H2'	1:5:732:C:H6	1.79	0.48
1:5:3352:U:H4'	1:5:3353:G:H5'	1.94	0.48
12:m0:169:LYS:NZ	22:n1:158:THR:O	2.47	0.48
14:m3:134:GLU:CD	14:m3:135:ALA:H	2.22	0.48
15:m4:119:GLN:O	15:m4:123:LEU:HD12	2.14	0.48
21:n0:93:GLU:OE1	21:n0:137:ARG:HB2	2.13	0.48
22:n1:51:GLY:HA3	22:n1:92:ARG:HG3	1.95	0.48
38:o7:14:LYS:NZ	40:o9:51:ILE:HD11	2.28	0.48
45:6:81:G:H2'	45:6:82:U:O4'	2.13	0.48
45:6:761:G:H4'	55:s9:72:GLU:OE2	2.14	0.48
45:6:811:A:C5	53:s7:110:GLN:HG2	2.49	0.48
45:6:1158:C:H42	45:6:1163:A:H61	1.60	0.48
45:6:1333:C:C4'	49:s3:162:GLN:HG3	2.44	0.48
47:s1:103:MET:HB3	47:s1:215:VAL:HG12	1.95	0.48
49:s3:11:LEU:HD13	66:d0:29:THR:HG23	1.95	0.48
49:s3:160:SER:OG	49:s3:161:GLY:N	2.46	0.48
52:s6:75:LEU:O	52:s6:94:ARG:HA	2.14	0.48
53:s7:49:ILE:HD12	53:s7:172:VAL:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:c5:85:ILE:HG22	61:c5:112:LEU:HD23	1.95	0.48
64:c8:3:LEU:O	64:c8:5:VAL:HG22	2.14	0.48
1:1:496:C:H2'	1:1:497:C:O4'	2.14	0.48
1:1:1040:A:N3	12:M0:198:LYS:NZ	2.53	0.48
1:1:1523:U:OP2	1:1:1604:G:O2'	2.30	0.48
1:1:1547:G:OP1	16:M5:108:ARG:NH2	2.47	0.48
1:1:2242:A:H5''	4:L2:244:GLY:HA3	1.96	0.48
1:1:2733:A:H2'	1:1:2734:A:C8	2.48	0.48
1:1:2991:A:O2'	1:1:3308:C:N4	2.44	0.48
1:1:2993:G:H2'	1:1:3142:A:N6	2.29	0.48
1:1:3181:C:H2'	1:1:3182:G:C8	2.48	0.48
1:1:3296:A:H2'	1:1:3297:U:H6	1.79	0.48
6:L4:185:LYS:HZ1	6:L4:201:GLN:HB3	1.79	0.48
11:L9:36:LYS:HE3	11:L9:152:GLU:OE2	2.14	0.48
13:M1:133:ARG:HB2	13:M1:152:HIS:CD2	2.49	0.48
13:M1:133:ARG:HB2	13:M1:152:HIS:HE2	1.78	0.48
18:M7:131:ARG:HG3	18:M7:137:ASN:OD1	2.14	0.48
24:N3:96:GLU:OE1	25:N4:24:GLY:N	2.47	0.48
28:N7:83:THR:HG23	28:N7:85:TYR:H	1.79	0.48
36:O5:68:GLN:O	36:O5:71:LYS:HB2	2.14	0.48
45:2:381:C:O2'	45:2:755:A:N1	2.46	0.48
45:2:525:A:H2'	45:2:526:A:H8	1.78	0.48
45:2:734:A:H4'	45:2:735:C:H5'	1.96	0.48
45:2:765:G:C2'	55:S9:149:ARG:HH12	2.26	0.48
45:2:1479:A:H2'	45:2:1480:G:H8	1.79	0.48
45:2:1737:G:O6	85:2:2044:LLL:H32	2.14	0.48
50:S4:129:VAL:HG12	50:S4:156:VAL:HG22	1.95	0.48
53:S7:96:ARG:NH1	53:S7:128:ASP:OD2	2.40	0.48
55:S9:70:LEU:O	55:S9:74:ASN:ND2	2.30	0.48
78:SR:70:ASP:HB3	78:SR:112:SER:HA	1.96	0.48
79:SM:24:GLU:O	79:SM:25:ILE:HD12	2.13	0.48
1:5:76:G:P	14:m3:70:ARG:HH12	2.37	0.48
1:5:242:C:O2'	1:5:243:G:H5'	2.14	0.48
1:5:440:A:C2	1:5:441:U:H1'	2.48	0.48
1:5:1747:G:H21	39:o8:2:ALA:HA	1.78	0.48
1:5:1921:A:H2'	1:5:1922:A:H8	1.79	0.48
1:5:3049:A:H2'	1:5:3050:U:O4'	2.13	0.48
8:l6:66:SER:C	8:l6:68:PRO:HA	2.39	0.48
11:l9:20:ILE:HG12	11:l9:25:VAL:HG13	1.96	0.48
12:m0:19:LYS:HA	12:m0:23:ASN:HD22	1.79	0.48
16:m5:180:PHE:CD2	16:m5:180:PHE:N	2.80	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:n7:23:VAL:HG12	28:n7:45:GLY:HA3	1.94	0.48
32:o1:35:GLU:OE2	32:o1:38:LYS:HD3	2.13	0.48
32:o1:80:ASN:HA	32:o1:90:PHE:CE2	2.48	0.48
41:q0:99:CYS:HB3	41:q0:115:CYS:HB3	1.94	0.48
51:s5:225:ARG:NH2	74:d8:58:GLU:HB2	2.29	0.48
52:s6:132:ARG:O	52:s6:133:LEU:HD12	2.13	0.48
53:s7:50:ASP:HA	53:s7:56:LYS:HG2	1.95	0.48
55:s9:86:LEU:CD1	55:s9:99:LEU:HD11	2.43	0.48
65:c9:117:SER:CB	65:c9:123:ARG:HD2	2.43	0.48
66:d0:57:ARG:HG3	66:d0:89:ARG:CZ	2.44	0.48
1:1:955:U:H2'	1:1:956:U:C6	2.49	0.48
1:1:964:G:OP2	1:1:1115:G:N1	2.37	0.48
1:1:1631:C:H5''	1:1:1632:A:H5''	1.96	0.48
1:1:1666:G:H2'	1:1:1667:A:C8	2.49	0.48
1:1:1823:A:H2'	1:1:1824:U:C6	2.49	0.48
1:1:2117:A:H2'	1:1:2118:C:O4'	2.14	0.48
1:1:2131:A:N6	44:Q3:18:TYR:HA	2.29	0.48
1:1:2225:U:H2'	1:1:2226:U:H6	1.77	0.48
1:1:3160:U:H2'	1:1:3161:C:H6	1.78	0.48
6:L4:89:ALA:C	6:L4:91:GLY:H	2.21	0.48
10:L8:101:THR:HG23	10:L8:104:GLU:H	1.78	0.48
11:L9:101:VAL:HG22	11:L9:114:VAL:HG22	1.96	0.48
15:M4:113:THR:HG22	15:M4:116:GLU:HG3	1.96	0.48
17:M6:185:ALA:O	17:M6:188:SER:HB3	2.13	0.48
19:M8:173:GLU:OE2	29:N8:49:HIS:ND1	2.46	0.48
31:O0:42:ILE:HG22	31:O0:91:SER:HA	1.96	0.48
45:2:74:U:C1'	45:2:75:U:H5'	2.24	0.48
45:2:246:G:N3	57:C1:40:LEU:HD13	2.28	0.48
45:2:678:A:H8	45:2:678:A:O5'	1.97	0.48
45:2:903:U:O2'	45:2:905:A:N7	2.33	0.48
45:2:995:A:H2'	45:2:996:U:O4'	2.14	0.48
45:2:1078:C:H2'	45:2:1079:U:C6	2.48	0.48
45:2:1396:U:H2'	45:2:1397:U:C6	2.48	0.48
47:S1:142:PHE:O	47:S1:208:GLN:N	2.47	0.48
50:S4:106:LYS:HD2	50:S4:108:ARG:NH1	2.28	0.48
51:S5:63:GLN:H	51:S5:89:ILE:HG23	1.79	0.48
51:S5:143:ARG:NH1	51:S5:218:GLU:OE1	2.47	0.48
52:S6:32:ILE:HD11	52:S6:54:GLY:HA2	1.96	0.48
1:5:3393:U:H2'	1:5:3394:U:H6	1.77	0.48
2:7:26:C:H2'	2:7:27:A:O4'	2.14	0.48
7:l5:148:ILE:HD12	7:l5:159:VAL:HG11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m0:31:ILE:HD11	12:m0:89:VAL:HG21	1.96	0.48
17:m6:65:ASN:HD22	17:m6:68:ARG:HD2	1.77	0.48
21:n0:26:ARG:HD3	22:n1:150:THR:HG22	1.96	0.48
22:n1:82:ASN:HB2	30:n9:20:GLY:HA3	1.94	0.48
23:n2:50:LEU:HD23	23:n2:50:LEU:H	1.78	0.48
33:o2:111:ARG:CZ	33:o2:115:LEU:HD21	2.44	0.48
35:o4:82:ALA:O	35:o4:85:VAL:HG22	2.14	0.48
45:6:256:A:H2'	45:6:257:A:O4'	2.14	0.48
45:6:1068:C:H2'	45:6:1069:A:C8	2.47	0.48
47:s1:128:LYS:HG3	47:s1:134:VAL:HG22	1.96	0.48
49:s3:105:MET:HB3	49:s3:184:ILE:HG21	1.96	0.48
50:s4:178:GLY:CA	50:s4:195:ILE:HB	2.42	0.48
53:s7:103:SER:N	53:s7:106:SER:O	2.47	0.48
53:s7:142:TYR:O	68:d2:49:GLU:HB2	2.14	0.48
54:s8:110:ARG:NH1	54:s8:160:PHE:O	2.39	0.48
54:s8:166:TYR:O	54:s8:184:LEU:HB2	2.14	0.48
59:c3:23:PRO:HG2	59:c3:26:PHE:HB2	1.95	0.48
66:d0:50:LEU:HD13	66:d0:95:ALA:HB2	1.96	0.48
66:d0:72:ASN:HD22	66:d0:74:GLU:H	1.62	0.48
76:e0:45:VAL:C	76:e0:47:VAL:HG23	2.39	0.48
1:1:936:A:OP1	29:N8:28:HIS:ND1	2.47	0.47
1:1:1070:U:C4	1:1:1071:U:C4	3.02	0.47
1:1:2208:A:H5''	1:1:2209:U:N3	2.29	0.47
1:1:3186:A:O2'	11:L9:42:ASP:HA	2.14	0.47
1:1:3252:G:H2'	1:1:3253:G:C8	2.49	0.47
2:3:84:A:H2'	2:3:85:G:C8	2.49	0.47
3:4:125:U:H3'	3:4:126:A:C8	2.49	0.47
4:L2:225:ILE:HG21	4:L2:234:LYS:HA	1.96	0.47
7:L5:108:ARG:CZ	7:L5:253:PHE:HB2	2.44	0.47
13:M1:138:VAL:HG13	13:M1:141:ARG:HH21	1.79	0.47
16:M5:136:ASP:OD2	16:M5:138:GLN:HG2	2.14	0.47
27:N6:43:TYR:HA	27:N6:125:LYS:HB2	1.95	0.47
29:N8:127:ALA:O	29:N8:148:ILE:HG12	2.14	0.47
38:O7:31:LYS:O	38:O7:33:THR:HG22	2.14	0.47
44:Q3:87:ARG:O	44:Q3:91:GLU:HG2	2.14	0.47
45:2:22:A:H2'	45:2:23:G:C8	2.49	0.47
45:2:138:A:O2'	52:S6:149:LYS:NZ	2.47	0.47
51:S5:72:HIS:HE2	62:C6:75:VAL:HG11	1.78	0.47
54:S8:138:ASN:OD1	54:S8:138:ASN:N	2.47	0.47
55:S9:114:TYR:HB2	55:S9:125:ALA:HB2	1.96	0.47
57:C1:58:CYS:HA	57:C1:112:SER:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:C2:123:VAL:HG12	58:C2:126:TRP:HB3	1.95	0.47
60:C4:24:ASN:O	60:C4:25:ASP:HB2	2.14	0.47
60:C4:99:GLN:O	60:C4:102:LEU:N	2.42	0.47
63:C7:53:TYR:O	63:C7:56:HIS:N	2.47	0.47
69:D3:68:ILE:HD12	76:E0:10:ARG:NH2	2.29	0.47
70:D4:33:ALA:C	70:D4:34:ASN:HD22	2.21	0.47
72:D6:41:ILE:HG22	72:D6:68:TYR:CD1	2.49	0.47
74:D8:42:ARG:NH2	74:D8:58:GLU:OE1	2.43	0.47
1:5:707:U:H1'	1:5:754:G:O2'	2.14	0.47
1:5:1010:G:H21	12:m0:194:GLY:HA3	1.78	0.47
1:5:1240:A:H5''	80:m2:98:UNK:N	2.29	0.47
1:5:1280:C:H2'	1:5:1281:G:O4'	2.13	0.47
1:5:2304:C:C5	1:5:2305:G:C6	3.02	0.47
1:5:2342:U:H2'	1:5:2343:C:H6	1.79	0.47
10:l8:56:VAL:O	10:l8:60:ARG:HG3	2.14	0.47
10:l8:78:PHE:C	10:l8:80:TYR:H	2.21	0.47
24:n3:68:GLU:H	24:n3:68:GLU:CD	2.20	0.47
45:6:27:U:H2'	45:6:28:A:H8	1.78	0.47
45:6:350:U:H5''	45:6:352:A:H5'	1.96	0.47
45:6:696:C:O3'	45:6:697:C:H6	1.97	0.47
45:6:1153:G:H5''	72:d6:85:ARG:HH11	1.78	0.47
45:6:1165:G:C6	45:6:1166:A:C6	3.02	0.47
45:6:1347:U:O2	45:6:1516:A:H5'	2.14	0.47
45:6:1575:G:H2'	45:6:1576:A:C8	2.49	0.47
46:s0:17:LEU:HD21	46:s0:176:LEU:HD11	1.96	0.47
49:s3:145:ALA:HB3	79:sM:101:ASP:OD2	2.14	0.47
53:s7:154:LEU:HD21	53:s7:183:PHE:CD1	2.49	0.47
57:c1:7:VAL:HG12	57:c1:8:GLN:HG2	1.96	0.47
62:c6:40:GLU:C	62:c6:42:GLU:H	2.22	0.47
62:c6:110:THR:HA	62:c6:113:ASP:HB2	1.95	0.47
65:c9:70:GLN:NE2	65:c9:119:LYS:HB2	2.29	0.47
66:d0:72:ASN:HD22	66:d0:73:GLY:N	2.12	0.47
77:e1:86:THR:OG1	77:e1:88:PRO:HD2	2.14	0.47
78:sR:192:PHE:HD1	78:sR:223:TRP:CE3	2.32	0.47
1:1:126:U:H2'	1:1:127:G:O4'	2.13	0.47
1:1:709:A:N3	1:1:2787:G:O2'	2.44	0.47
1:1:1725:C:H2'	1:1:1726:C:C6	2.49	0.47
1:1:1878:G:O2'	1:1:1879:A:H5'	2.14	0.47
1:1:2341:A:OP2	5:L3:247:ARG:NH2	2.48	0.47
1:1:2389:C:H1'	18:M7:69:ARG:NH1	2.29	0.47
1:1:2592:G:H4'	1:1:2594:C:C2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2623:G:N2	1:1:2644:C:N3	2.54	0.47
1:1:3377:G:O2'	5:L3:313:HIS:NE2	2.37	0.47
2:3:92:A:C5	2:3:93:C:H1'	2.49	0.47
11:L9:49:ASN:HD21	11:L9:51:GLN:HG2	1.79	0.47
15:M4:103:ILE:O	15:M4:107:GLU:HG3	2.14	0.47
20:M9:175:GLN:HA	20:M9:178:ALA:HB3	1.96	0.47
31:O0:31:VAL:HG13	31:O0:59:TYR:CE2	2.48	0.47
45:2:253:A:H2'	45:2:254:A:H8	1.79	0.47
45:2:1055:U:H3	45:2:1064:G:H1	1.62	0.47
45:2:1338:C:H1'	45:2:1410:A:C4	2.50	0.47
46:S0:162:CYS:HB3	46:S0:173:ILE:HG13	1.96	0.47
50:S4:45:ILE:HA	50:S4:61:VAL:HG11	1.95	0.47
51:S5:165:LEU:O	51:S5:169:ASN:ND2	2.46	0.47
60:C4:92:LYS:NZ	72:D6:69:ASN:HB2	2.29	0.47
62:C6:22:VAL:HG21	62:C6:88:GLY:HA3	1.95	0.47
78:SR:50:ASP:OD2	78:SR:53:LYS:NZ	2.47	0.47
1:5:245:U:H2'	1:5:246:U:H6	1.79	0.47
1:5:407:A:OP2	3:8:15:G:N2	2.35	0.47
1:5:1071:U:O2'	1:5:1072:G:OP2	2.27	0.47
1:5:1313:G:O2'	1:5:1318:A:N1	2.45	0.47
1:5:2134:G:C2	1:5:2135:U:C6	3.02	0.47
2:7:97:A:OP1	21:n0:40:ARG:NH1	2.47	0.47
5:13:278:ILE:HD12	5:13:279:ASN:ND2	2.29	0.47
5:13:284:ARG:HB2	5:13:323:MET:HE2	1.96	0.47
14:m3:156:ALA:HB2	29:n8:90:TYR:HE1	1.79	0.47
19:m8:63:SER:O	19:m8:67:ILE:HG13	2.14	0.47
21:n0:26:ARG:NH1	22:n1:150:THR:HG21	2.21	0.47
45:6:570:A:O2'	45:6:573:C:N4	2.47	0.47
45:6:1676:U:H5''	54:s8:58:LEU:HD21	1.96	0.47
48:s2:109:GLY:O	48:s2:138:PRO:HA	2.13	0.47
56:c0:1:MET:HE3	56:c0:41:TYR:CD1	2.49	0.47
59:c3:100:LYS:O	59:c3:104:ARG:HD3	2.14	0.47
66:d0:24:ILE:HG23	66:d0:116:VAL:HG22	1.96	0.47
72:d6:46:GLU:HG2	72:d6:47:ALA:CB	2.44	0.47
78:sR:129:LYS:HA	78:sR:151:VAL:HG23	1.96	0.47
78:sR:170:ILE:HD13	78:sR:211:ILE:HG12	1.95	0.47
1:1:27:C:O2	1:1:327:A:H2	1.97	0.47
1:1:355:A:H2'	1:1:356:C:O4'	2.14	0.47
1:1:592:A:H5'	8:L6:17:ALA:O	2.15	0.47
1:1:619:A:H5'	1:1:620:U:O4'	2.15	0.47
1:1:712:G:H2'	1:1:713:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1334:U:H5'	9:L7:206:LYS:HB3	1.97	0.47
1:1:1863:G:N1	1:1:1866:C:OP2	2.45	0.47
1:1:2174:G:OP2	4:L2:18:SER:OG	2.23	0.47
1:1:2577:C:OP1	85:1:4002:LLL:N61	2.47	0.47
1:1:3170:A:N6	1:1:3280:U:H3	2.09	0.47
2:3:28:C:O3'	13:M1:135:GLY:HA2	2.15	0.47
9:L7:175:LYS:HD3	9:L7:176:TYR:CZ	2.49	0.47
9:L7:229:PHE:CD1	9:L7:229:PHE:C	2.92	0.47
15:M4:17:VAL:HG21	15:M4:74:ARG:HG3	1.96	0.47
16:M5:6:TYR:CZ	37:O6:40:VAL:HG22	2.49	0.47
16:M5:38:ARG:HE	16:M5:60:VAL:HG13	1.78	0.47
19:M8:155:MET:HE2	29:N8:48:TYR:O	2.14	0.47
31:O0:100:ILE:O	31:O0:103:THR:OG1	2.27	0.47
37:O6:53:TYR:O	37:O6:57:LEU:HD23	2.14	0.47
42:Q1:4:LYS:HG2	42:Q1:5:TRP:CZ3	2.50	0.47
45:2:736:C:H42	45:2:737:A:H62	1.61	0.47
45:2:1172:G:H2'	45:2:1173:C:C6	2.49	0.47
45:2:1537:C:H4'	45:2:1538:U:C5	2.49	0.47
45:2:1537:C:H4'	45:2:1538:U:H5	1.79	0.47
46:S0:69:ASN:HB3	46:S0:71:GLU:OE2	2.14	0.47
47:S1:89:ASP:HB3	47:S1:223:PHE:CE2	2.49	0.47
55:S9:17:ARG:O	55:S9:23:ARG:NH2	2.48	0.47
55:S9:37:LYS:HA	76:E0:33:ARG:HA	1.96	0.47
57:C1:3:THR:H	57:C1:81:HIS:HD2	1.62	0.47
62:C6:52:LEU:HA	62:C6:60:PHE:CZ	2.49	0.47
1:5:9:U:P	16:m5:41:ARG:HH21	2.37	0.47
1:5:608:A:C5	8:l6:22:ARG:HD3	2.49	0.47
1:5:685:G:OP2	14:m3:35:ARG:NH1	2.47	0.47
1:5:1491:A:O2'	1:5:1843:C:O2'	2.30	0.47
1:5:1715:A:C5	31:o0:84:LEU:HD13	2.49	0.47
1:5:2607:G:H5'	4:l2:233:GLN:CG	2.45	0.47
1:5:2828:G:HO2'	12:m0:4:ARG:HH11	1.58	0.47
1:5:3386:G:H2'	1:5:3387:U:H6	1.79	0.47
3:8:104:A:C8	3:8:105:A:C8	3.02	0.47
7:l5:144:VAL:O	7:l5:173:VAL:HA	2.14	0.47
9:l7:22:THR:O	9:l7:25:GLN:HG2	2.14	0.47
10:l8:238:LEU:HB3	10:l8:242:ALA:HB3	1.95	0.47
19:m8:152:HIS:ND1	19:m8:162:ALA:O	2.47	0.47
28:n7:51:LEU:HD12	28:n7:65:ARG:HD2	1.97	0.47
39:o8:56:ILE:HG21	39:o8:62:ALA:HB2	1.95	0.47
45:6:195:G:H2'	45:6:196:G:H5'	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:460:A:H5'	45:6:461:G:OP2	2.14	0.47
45:6:588:U:O2	76:e0:57:ASN:ND2	2.47	0.47
45:6:1435:G:H4'	45:6:1436:A:H5'	1.95	0.47
45:6:1528:U:H2'	45:6:1529:C:C6	2.49	0.47
46:s0:169:SER:O	46:s0:173:ILE:HG12	2.14	0.47
47:s1:43:VAL:HG11	47:s1:68:VAL:HG21	1.96	0.47
50:s4:117:GLU:C	50:s4:119:ALA:H	2.22	0.47
58:c2:133:LEU:H	58:c2:133:LEU:HD12	1.79	0.47
60:c4:131:GLY:O	60:c4:133:ARG:N	2.33	0.47
64:c8:145:ARG:NE	64:c8:145:ARG:HA	2.30	0.47
67:d1:38:LYS:NZ	67:d1:49:GLU:HG3	2.29	0.47
68:d2:36:LYS:HB3	68:d2:110:ILE:HD12	1.95	0.47
78:sR:79:TYR:HB3	78:sR:91:LEU:HD11	1.96	0.47
1:1:651:G:C6	1:1:652:G:C6	3.02	0.47
1:1:1470:U:H2'	1:1:1471:U:C6	2.50	0.47
1:1:2282:U:O2	1:1:2310:U:H4'	2.15	0.47
1:1:2730:G:H4'	19:M8:184:PHE:CD1	2.50	0.47
1:1:3024:A:H3'	1:1:3025:C:C6	2.50	0.47
1:1:3095:U:H2'	1:1:3096:C:C6	2.49	0.47
1:1:3156:U:O2'	1:1:3157:U:H5''	2.14	0.47
1:1:3393:U:H2'	1:1:3394:U:C6	2.49	0.47
2:3:43:U:OP1	13:M1:137:ARG:NE	2.44	0.47
3:4:70:G:H1	85:4:224:LLL:H312	1.78	0.47
5:L3:187:SER:O	5:L3:190:GLU:N	2.47	0.47
6:L4:207:VAL:HB	6:L4:227:THR:HG22	1.96	0.47
6:L4:327:LEU:HA	9:L7:166:ASN:ND2	2.29	0.47
7:L5:111:GLN:HA	7:L5:116:ASP:HB2	1.96	0.47
7:L5:261:THR:OG1	7:L5:264:GLN:HG3	2.15	0.47
26:N5:131:ASP:HB3	26:N5:134:ASP:HB2	1.95	0.47
32:O1:27:LYS:C	32:O1:30:PRO:HD2	2.40	0.47
35:O4:42:PRO:HB2	35:O4:51:LEU:HD21	1.97	0.47
39:O8:11:PHE:O	39:O8:15:THR:HG23	2.14	0.47
45:2:800:U:H2'	45:2:801:G:H8	1.78	0.47
45:2:1228:G:OP2	58:C2:119:SER:HB3	2.14	0.47
46:S0:88:LYS:HG2	46:S0:201:LEU:HG	1.97	0.47
54:S8:61:GLU:HG3	54:S8:62:THR:HG23	1.96	0.47
60:C4:24:ASN:H	60:C4:55:SER:HB3	1.79	0.47
66:D0:39:SER:HA	66:D0:42:VAL:HG12	1.96	0.47
75:D9:7:TRP:CD1	75:D9:7:TRP:C	2.91	0.47
1:5:200:C:OP1	27:n6:60:ARG:NH1	2.48	0.47
1:5:676:G:O2'	1:5:678:G:O2'	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:848:A:H2'	1:5:849:C:O4'	2.15	0.47
1:5:944:C:H4'	33:o2:33:ARG:NH1	2.29	0.47
1:5:1119:C:OP1	85:5:4174:LLL:H311	2.14	0.47
1:5:2394:G:H5'	5:l3:252:ILE:HG22	1.97	0.47
1:5:3322:A:OP2	85:l3:412:LLL:N21	2.47	0.47
5:l3:152:LYS:HG2	5:l3:189:SER:HA	1.96	0.47
5:l3:238:LEU:HD11	5:l3:250:ALA:HB2	1.96	0.47
7:l5:95:TRP:HZ3	7:l5:156:GLY:C	2.22	0.47
7:l5:179:ARG:HA	7:l5:179:ARG:HD3	1.56	0.47
10:l8:76:ALA:O	10:l8:79:GLN:NE2	2.47	0.47
16:m5:6:TYR:CZ	37:o6:40:VAL:HG22	2.50	0.47
17:m6:78:ARG:HD2	17:m6:78:ARG:HA	1.53	0.47
34:o3:103:TYR:HA	34:o3:104:PRO:C	2.38	0.47
45:6:95:G:HO2'	45:6:460:A:HO2'	1.63	0.47
45:6:1303:U:OP2	87:6:2226:HOH:O	2.20	0.47
45:6:1670:G:H8	45:6:1670:G:O5'	1.97	0.47
46:s0:51:GLY:O	46:s0:55:GLU:HG3	2.14	0.47
46:s0:77:SER:HB2	46:s0:124:THR:HG21	1.96	0.47
50:s4:54:TYR:O	70:d4:22:GLN:NE2	2.38	0.47
53:s7:129:LEU:HD13	53:s7:169:PHE:HB3	1.97	0.47
78:sR:40:LYS:HG2	78:sR:66:HIS:C	2.38	0.47
1:1:1162:U:H4'	33:O2:57:TYR:CD1	2.49	0.47
1:1:1368:U:H5'	33:O2:43:ARG:NH1	2.30	0.47
1:1:1617:G:H2'	1:1:1618:G:O4'	2.15	0.47
1:1:1639:C:N4	28:N7:17:ARG:HB2	2.30	0.47
1:1:2193:U:H5''	1:1:2194:G:H5'	1.96	0.47
1:1:2284:C:N4	1:1:2308:C:OP2	2.48	0.47
1:1:2812:C:H2'	1:1:2813:A:C8	2.50	0.47
1:1:2898:G:P	11:L9:173:ARG:HH22	2.37	0.47
1:1:3215:A:C5'	15:M4:121:MET:HE1	2.44	0.47
4:L2:241:ARG:NH1	4:L2:241:ARG:HB3	2.30	0.47
6:L4:220:ARG:NH1	27:N6:4:GLN:OE1	2.48	0.47
6:L4:291:ASN:O	6:L4:296:GLN:HG2	2.15	0.47
8:L6:42:LEU:HD23	8:L6:84:VAL:HG23	1.96	0.47
12:M0:213:PHE:N	12:M0:214:PRO:HD3	2.29	0.47
15:M4:37:GLU:HG2	15:M4:38:ILE:H	1.80	0.47
23:N2:76:LEU:O	23:N2:80:THR:HG23	2.14	0.47
24:N3:83:LYS:NZ	24:N3:84:SER:O	2.45	0.47
45:2:463:U:O2'	45:2:527:A:N6	2.47	0.47
45:2:545:A:H4'	45:2:546:U:OP1	2.14	0.47
45:2:702:G:O2'	45:2:703:G:H8	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1685:G:N3	45:2:1717:G:N1	2.62	0.47
47:S1:109:LYS:O	47:S1:113:MET:HG3	2.14	0.47
48:S2:152:HIS:H	48:S2:152:HIS:HD2	1.62	0.47
48:S2:153:SER:HA	48:S2:195:ASP:O	2.15	0.47
50:S4:136:VAL:HG11	50:S4:148:ARG:NH2	2.29	0.47
50:S4:187:ARG:O	50:S4:187:ARG:HD3	2.15	0.47
55:S9:86:LEU:HG	55:S9:87:SER:H	1.79	0.47
62:C6:125:GLU:HG2	62:C6:126:PRO:HD2	1.97	0.47
75:D9:10:HIS:CG	75:D9:11:PRO:HD2	2.48	0.47
1:5:160:G:H1	1:5:261:U:H3	1.61	0.47
1:5:443:G:H4'	1:5:443:G:OP1	2.14	0.47
1:5:749:C:H5''	30:n9:32:LEU:HD12	1.97	0.47
1:5:890:C:O2'	1:5:2324:A:N3	2.45	0.47
1:5:899:U:O4	85:5:4156:LLL:H32	2.15	0.47
1:5:1339:C:OP1	33:o2:61:LYS:HD3	2.14	0.47
1:5:1682:U:C5	23:n2:85:LYS:HG2	2.50	0.47
1:5:1907:C:N4	1:5:2336:U:O4'	2.47	0.47
5:l3:114:VAL:O	5:l3:117:ARG:N	2.46	0.47
5:l3:283:TYR:HB3	5:l3:323:MET:HE3	1.95	0.47
7:l5:187:THR:HG22	7:l5:189:GLU:HB2	1.97	0.47
8:l6:128:LYS:C	8:l6:130:ILE:HD12	2.39	0.47
20:m9:101:VAL:HG22	20:m9:104:ARG:HH12	1.79	0.47
28:n7:95:VAL:HG11	28:n7:110:ALA:HA	1.96	0.47
28:n7:100:THR:HA	28:n7:106:GLN:HB3	1.95	0.47
31:o0:55:GLU:O	31:o0:59:TYR:HB2	2.14	0.47
43:q2:65:THR:OG1	43:q2:87:ARG:NH1	2.47	0.47
45:6:162:A:H2'	45:6:163:G:C8	2.49	0.47
45:6:334:G:O6	54:s8:5:ARG:NH2	2.45	0.47
45:6:386:G:OP1	54:s8:23:LYS:HG3	2.14	0.47
45:6:462:G:OP1	55:s9:3:ARG:HG2	2.14	0.47
49:s3:20:GLU:OE2	49:s3:76:ARG:NH2	2.46	0.47
51:s5:36:ALA:O	51:s5:37:GLN:HG3	2.14	0.47
57:c1:82:ARG:O	57:c1:110:HIS:ND1	2.47	0.47
61:c5:34:VAL:O	61:c5:42:ARG:HG2	2.15	0.47
70:d4:20:ARG:HB3	70:d4:76:TYR:CD2	2.49	0.47
71:d5:57:TYR:CZ	71:d5:68:ARG:HG2	2.50	0.47
77:e1:92:LYS:O	77:e1:93:HIS:CG	2.67	0.47
78:sR:208:GLY:O	78:sR:225:LEU:HD23	2.14	0.47
1:1:370:U:H4'	1:1:404:G:H5''	1.95	0.47
1:1:1069:C:H2'	1:1:1070:U:C6	2.50	0.47
1:1:1384:U:P	6:L4:202:ARG:HD3	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2801:A:O2'	1:1:2802:A:H2'	2.15	0.47
1:1:3295:A:OP1	5:L3:119:TYR:HE1	1.97	0.47
5:L3:162:VAL:O	5:L3:178:LEU:HD12	2.14	0.47
5:L3:347:SER:HB2	5:L3:350:ALA:HB3	1.96	0.47
7:L5:34:LYS:HA	22:N1:27:LEU:HD11	1.97	0.47
12:M0:43:VAL:HG21	12:M0:197:VAL:HG13	1.95	0.47
22:N1:57:TYR:CD1	22:N1:89:LEU:HD21	2.49	0.47
26:N5:139:ILE:HD11	26:N5:141:TYR:HE2	1.78	0.47
28:N7:26:VAL:HG11	28:N7:96:VAL:HB	1.97	0.47
32:O1:48:ASP:CG	32:O1:50:ARG:HE	2.22	0.47
37:O6:55:ARG:O	37:O6:58:ILE:HG12	2.14	0.47
44:Q3:84:ARG:O	44:Q3:88:GLU:HG2	2.14	0.47
45:2:226:A:H2'	45:2:227:U:H5'	1.96	0.47
45:2:1068:C:H2'	45:2:1069:A:H8	1.79	0.47
45:2:1370:U:O2'	45:2:1371:A:OP1	2.32	0.47
46:S0:166:GLY:HA2	46:S0:170:ILE:HD11	1.96	0.47
47:S1:51:SER:HA	47:S1:57:ALA:H	1.79	0.47
47:S1:129:THR:HB	47:S1:180:THR:HA	1.95	0.47
48:S2:148:LEU:O	67:D1:4:ASP:HB2	2.13	0.47
48:S2:152:HIS:CG	48:S2:153:SER:H	2.33	0.47
53:S7:30:SER:HB2	53:S7:34:LEU:CB	2.45	0.47
53:S7:132:PRO:HG3	53:S7:161:GLN:HG3	1.97	0.47
60:C4:99:GLN:NE2	72:D6:44:ILE:O	2.43	0.47
69:D3:48:HIS:HB3	69:D3:103:LEU:HD21	1.96	0.47
75:D9:22:ARG:HD2	75:D9:38:ILE:HD11	1.95	0.47
77:E1:121:CYS:SG	77:E1:122:SER:N	2.87	0.47
1:5:575:G:H2'	1:5:576:C:H6	1.80	0.47
1:5:979:U:C2	1:5:980:A:C6	3.02	0.47
1:5:1237:G:H22	1:5:1251:A:H2	1.60	0.47
1:5:1904:C:N4	1:5:1905:G:C6	2.82	0.47
1:5:2229:A:H2'	1:5:2230:C:H6	1.78	0.47
1:5:2405:C:O2	1:5:2819:A:N1	2.48	0.47
1:5:2916:U:H5	1:5:2935:U:HO2'	1.63	0.47
1:5:2991:A:OP1	5:l3:21:ARG:HG3	2.14	0.47
1:5:3145:C:OP2	85:5:4178:LLL:H312	2.14	0.47
1:5:3150:A:H5'	5:l3:129:ALA:O	2.14	0.47
1:5:3369:G:OP2	81:n4:61:LYS:NZ	2.39	0.47
2:7:62:U:O3'	7:l5:285:ARG:NH1	2.48	0.47
7:l5:205:SER:OG	7:l5:206:GLN:N	2.47	0.47
8:l6:65:ILE:HD13	8:l6:65:ILE:HA	1.65	0.47
12:m0:113:GLN:CG	12:m0:114:GLY:H	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:m3:76:THR:HA	14:m3:98:ASP:O	2.14	0.47
14:m3:122:LYS:HA	36:o5:119:LYS:HE3	1.97	0.47
18:m7:116:HIS:C	18:m7:116:HIS:ND1	2.73	0.47
19:m8:34:THR:HG22	19:m8:49:LEU:HD11	1.96	0.47
20:m9:74:ARG:HG2	20:m9:74:ARG:HH11	1.78	0.47
26:n5:56:ARG:O	26:n5:57:LEU:HB2	2.15	0.47
28:n7:108:GLU:O	28:n7:112:LYS:HG3	2.14	0.47
35:o4:95:ILE:O	35:o4:99:LYS:HG3	2.13	0.47
39:o8:42:LYS:HG2	39:o8:55:VAL:HG13	1.96	0.47
45:6:194:U:H2'	45:6:194:U:O2	2.15	0.47
45:6:224:C:N3	45:6:837:G:N2	2.43	0.47
45:6:902:G:H2'	45:6:903:U:C6	2.50	0.47
45:6:1091:A:H4'	45:6:1092:A:O4'	2.14	0.47
45:6:1408:G:H2'	45:6:1409:G:O4'	2.14	0.47
47:s1:27:LYS:HD2	47:s1:47:LEU:HD22	1.96	0.47
50:s4:195:ILE:HG22	50:s4:196:VAL:N	2.30	0.47
56:c0:32:HIS:CD2	56:c0:33:GLU:N	2.81	0.47
57:c1:8:GLN:OE1	57:c1:14:GLN:N	2.31	0.47
58:c2:63:VAL:HG11	58:c2:94:ALA:HB2	1.96	0.47
59:c3:127:ARG:O	59:c3:131:THR:HB	2.14	0.47
66:d0:82:TYR:HB3	75:d9:52:PHE:HB3	1.97	0.47
68:d2:31:SER:O	68:d2:35:ILE:HG12	2.15	0.47
71:d5:55:PRO:HG3	71:d5:88:ILE:HG23	1.95	0.47
77:e1:88:PRO:HA	77:e1:89:LYS:HA	1.73	0.47
77:e1:133:ALA:O	77:e1:139:LEU:HD13	2.15	0.47
78:sR:83:ALA:HA	78:sR:89:LEU:HD23	1.95	0.47
1:1:321:C:H5''	16:M5:150:TRP:CE3	2.50	0.47
1:1:719:U:C6	1:1:719:U:H5''	2.49	0.47
1:1:1080:A:H5'	7:L5:139:PRO:HB3	1.96	0.47
1:1:1219:C:O2'	1:1:1286:A:N1	2.48	0.47
1:1:1306:G:C6	17:M6:62:THR:HA	2.49	0.47
1:1:1361:U:H2'	1:1:1362:G:C8	2.49	0.47
1:1:1482:A:H4'	1:1:1483:G:OP2	2.14	0.47
1:1:1680:G:H2'	1:1:1681:U:H6	1.80	0.47
1:1:1909:A:N7	87:1:4205:HOH:O	2.35	0.47
1:1:2256:A:C6	45:2:1756:A:H8	2.26	0.47
1:1:2314:U:HO2'	1:1:2315:G:P	2.37	0.47
1:1:2400:G:H5''	1:1:2401:A:OP2	2.14	0.47
1:1:2896:A:H5''	1:1:2896:A:H8	1.80	0.47
1:1:3180:A:C4	17:M6:114:LYS:HA	2.49	0.47
1:1:3364:C:H2'	1:1:3365:U:C6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:1:G:H1'	7:L5:266:ALA:HA	1.96	0.47
3:4:83:C:H1'	3:4:85:G:H21	1.78	0.47
4:L2:53:GLY:O	4:L2:192:LYS:NZ	2.48	0.47
5:L3:49:TYR:OH	5:L3:166:ILE:HD12	2.14	0.47
6:L4:62:ALA:HB1	6:L4:76:ARG:C	2.39	0.47
6:L4:141:ARG:HB2	6:L4:176:SER:HB3	1.97	0.47
9:L7:77:VAL:HG22	22:N1:139:ARG:HG3	1.96	0.47
9:L7:121:LYS:O	9:L7:121:LYS:HD3	2.14	0.47
10:L8:75:ILE:C	10:L8:77:GLN:H	2.23	0.47
11:L9:26:LYS:HB2	11:L9:35:THR:HG22	1.97	0.47
17:M6:14:HIS:NE2	17:M6:124:LEU:HD13	2.30	0.47
19:M8:81:VAL:HG13	19:M8:101:VAL:HG22	1.97	0.47
19:M8:120:GLU:OE2	19:M8:130:ARG:NH2	2.25	0.47
26:N5:105:VAL:HA	26:N5:130:TYR:CE2	2.49	0.47
35:O4:74:ARG:CZ	35:O4:82:ALA:HB2	2.45	0.47
36:O5:10:ARG:HG3	36:O5:57:VAL:HG13	1.96	0.47
45:2:825:U:H3	45:2:847:A:H61	1.63	0.47
45:2:884:A:H4'	47:S1:124:ASN:ND2	2.29	0.47
45:2:1017:U:H2'	45:2:1018:U:C6	2.49	0.47
45:2:1084:A:H2'	45:2:1085:G:O4'	2.15	0.47
45:2:1108:G:N1	69:D3:22:ASN:OD1	2.48	0.47
45:2:1454:G:N2	45:2:1455:G:H1'	2.29	0.47
45:2:1488:G:H5'	45:2:1489:U:OP1	2.14	0.47
45:2:1504:G:O3'	65:C9:41:SER:HB3	2.15	0.47
47:S1:106:THR:O	47:S1:110:LEU:HD12	2.14	0.47
48:S2:185:LYS:O	48:S2:189:GLN:HG3	2.14	0.47
49:S3:28:GLU:OE2	56:C0:56:LYS:NZ	2.41	0.47
49:S3:132:LYS:HE3	49:S3:192:PRO:HD2	1.95	0.47
49:S3:172:THR:HA	49:S3:184:ILE:O	2.15	0.47
50:S4:35:PRO:HD2	50:S4:83:PRO:HG2	1.96	0.47
51:S5:121:ILE:HB	51:S5:129:PRO:HB3	1.97	0.47
52:S6:54:GLY:C	52:S6:63:MET:HE3	2.39	0.47
52:S6:69:LEU:HA	52:S6:69:LEU:HD13	1.69	0.47
53:S7:129:LEU:HD22	53:S7:169:PHE:HD1	1.80	0.47
54:S8:104:ILE:HD12	54:S8:109:PHE:HE1	1.79	0.47
55:S9:30:LEU:HD23	55:S9:30:LEU:HA	1.73	0.47
57:C1:131:ILE:HD13	57:C1:131:ILE:HA	1.69	0.47
60:C4:31:THR:HA	60:C4:38:THR:HA	1.96	0.47
62:C6:93:HIS:HA	62:C6:97:VAL:CG1	2.44	0.47
63:C7:84:TYR:O	63:C7:86:PRO:HD3	2.15	0.47
68:D2:31:SER:OG	68:D2:33:VAL:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:D2:82:LYS:C	68:D2:84:GLY:H	2.15	0.47
69:D3:103:LEU:HD13	69:D3:126:LYS:HD3	1.96	0.47
69:D3:126:LYS:HB3	69:D3:131:SER:H	1.79	0.47
72:D6:74:CYS:O	72:D6:75:VAL:HG12	2.15	0.47
72:D6:84:VAL:HG23	72:D6:85:ARG:HG3	1.96	0.47
78:SR:195:HIS:CE1	78:SR:221:MET:HG3	2.50	0.47
78:SR:208:GLY:O	78:SR:225:LEU:HD23	2.14	0.47
1:5:213:A:N6	1:5:227:G:O2'	2.48	0.47
1:5:229:G:H5''	27:n6:4:GLN:HB2	1.97	0.47
1:5:250:U:C3'	1:5:251:G:H5'	2.43	0.47
1:5:268:A:H5''	16:m5:47:LYS:NZ	2.29	0.47
1:5:404:G:O2'	1:5:1417:G:H5'	2.15	0.47
1:5:429:U:H4'	34:o3:88:ASN:H	1.80	0.47
1:5:1374:G:O6	29:n8:10:LYS:NZ	2.34	0.47
1:5:1524:A:O2'	1:5:1526:U:OP2	2.22	0.47
1:5:2096:A:HO2'	1:5:2097:U:P	2.37	0.47
1:5:2503:G:H2'	1:5:2504:U:H6	1.80	0.47
1:5:2552:C:H5	31:o0:53:LYS:HZ1	1.62	0.47
1:5:2899:C:C5	11:19:171:ASP:HA	2.49	0.47
1:5:3285:C:N4	1:5:3286:G:N7	2.61	0.47
4:l2:225:ILE:HD13	4:l2:233:GLN:O	2.14	0.47
5:l3:67:PHE:CZ	24:n3:88:ARG:HB2	2.50	0.47
5:l3:114:VAL:HG13	5:l3:163:HIS:CD2	2.50	0.47
7:l5:95:TRP:HZ3	7:l5:156:GLY:O	1.98	0.47
12:m0:48:LEU:HB3	12:m0:140:THR:O	2.15	0.47
13:m1:36:VAL:HG21	13:m1:123:PHE:HD2	1.79	0.47
14:m3:70:ARG:HD2	14:m3:71:ALA:O	2.15	0.47
16:m5:49:ARG:HG2	16:m5:49:ARG:HH21	1.80	0.47
16:m5:178:HIS:CD2	16:m5:179:LYS:N	2.83	0.47
17:m6:39:GLU:HG2	17:m6:40:GLU:HG2	1.97	0.47
17:m6:119:VAL:HG22	17:m6:124:LEU:HD11	1.96	0.47
20:m9:28:GLU:HG3	20:m9:49:THR:HG22	1.97	0.47
21:n0:42:TRP:CD2	21:n0:53:LYS:HB3	2.50	0.47
26:n5:57:LEU:HD22	26:n5:62:VAL:HG22	1.96	0.47
32:o1:19:ARG:HD3	32:o1:35:GLU:CG	2.45	0.47
82:p0:79:PHE:CE1	82:p0:189:GLN:HG3	2.49	0.47
45:6:107:C:N4	45:6:307:G:H1	2.12	0.47
45:6:206:A:H1'	45:6:262:U:C2	2.50	0.47
45:6:237:C:C2	45:6:834:G:H1'	2.49	0.47
45:6:333:A:C6	45:6:334:G:C6	3.02	0.47
45:6:476:U:H5''	45:6:477:A:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:675:U:H2'	45:6:676:G:H8	1.79	0.47
45:6:926:A:OP1	45:6:1016:C:O2'	2.24	0.47
45:6:959:U:O2	59:c3:61:THR:HB	2.15	0.47
45:6:1346:A:H4'	45:6:1347:U:O5'	2.15	0.47
45:6:1708:U:H2'	45:6:1709:C:C6	2.50	0.47
49:s3:75:LYS:HB3	56:c0:22:VAL:CB	2.43	0.47
49:s3:143:ARG:HA	79:sM:109:GLY:HA3	1.96	0.47
49:s3:175:VAL:O	49:s3:181:VAL:HA	2.14	0.47
49:s3:177:MET:HG3	49:s3:178:ARG:NH1	2.30	0.47
50:s4:71:LYS:O	50:s4:90:ILE:HA	2.14	0.47
51:s5:41:LYS:HB3	51:s5:41:LYS:HE2	1.47	0.47
52:s6:3:LEU:O	52:s6:15:THR:HA	2.15	0.47
52:s6:214:LYS:HA	52:s6:217:SER:HB2	1.96	0.47
54:s8:73:SER:O	54:s8:74:LYS:HD2	2.14	0.47
55:s9:65:LYS:HA	55:s9:70:LEU:HD11	1.95	0.47
68:d2:24:GLN:NE2	73:d7:4:VAL:HA	2.29	0.47
77:e1:121:CYS:H	77:e1:130:VAL:CG1	2.28	0.47
78:sR:251:TRP:CE2	78:sR:271:VAL:HG21	2.49	0.47
1:1:1329:U:O2'	1:1:1330:A:H5''	2.15	0.47
1:1:1554:U:C2	1:1:1555:U:C5	3.03	0.47
1:1:2207:A:C2'	1:1:2208:A:H5'	2.45	0.47
10:L8:137:ASN:HB3	16:M5:2:GLY:HA2	1.96	0.47
10:L8:143:ILE:HD11	10:L8:151:VAL:HG11	1.97	0.47
16:M5:71:ARG:HH12	16:M5:74:PRO:CG	2.27	0.47
17:M6:124:LEU:O	17:M6:128:ARG:HB2	2.14	0.47
24:N3:17:LEU:O	24:N3:51:ALA:HA	2.15	0.47
33:O2:64:LYS:HE2	33:O2:65:PHE:CZ	2.50	0.47
45:2:276:C:O2'	45:2:277:U:H5''	2.14	0.47
45:2:858:G:H4'	53:S7:113:PRO:HG2	1.97	0.47
45:2:884:A:H4'	47:S1:124:ASN:HD21	1.80	0.47
45:2:955:A:H2'	45:2:956:C:O4'	2.14	0.47
45:2:1182:U:H4'	61:C5:124:THR:OG1	2.15	0.47
45:2:1433:G:C4	75:D9:41:GLN:HB3	2.50	0.47
45:2:1520:U:OP2	65:C9:75:LYS:NZ	2.36	0.47
45:2:1592:A:H2'	45:2:1593:A:H8	1.77	0.47
47:S1:36:SER:O	47:S1:38:PHE:N	2.47	0.47
47:S1:124:ASN:HB3	47:S1:138:PHE:CD1	2.50	0.47
53:S7:98:ILE:HG23	53:S7:118:LEU:HA	1.96	0.47
58:C2:36:LEU:HD11	58:C2:102:GLY:HA2	1.96	0.47
76:E0:39:LEU:O	76:E0:43:ARG:HB2	2.15	0.47
1:5:441:U:H5'	1:5:442:G:OP2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:498:A:H2'	1:5:499:G:H8	1.79	0.47
1:5:717:C:H2'	1:5:718:G:O4'	2.15	0.47
1:5:1717:U:H2'	1:5:1718:G:C8	2.50	0.47
1:5:1762:C:H3'	1:5:1763:U:C5'	2.45	0.47
1:5:2133:U:O4	1:5:2147:A:H2	1.97	0.47
1:5:2997:G:C1'	1:5:3396:U:H5'	2.45	0.47
6:l4:26:PHE:CD1	6:l4:130:ALA:HB2	2.49	0.47
7:l5:219:PHE:HE1	7:l5:227:LEU:HD11	1.79	0.47
18:m7:7:THR:N	87:m7:302:HOH:O	2.42	0.47
21:n0:12:ARG:HG2	21:n0:59:VAL:HG23	1.97	0.47
24:n3:35:TYR:CD2	24:n3:63:LYS:HE2	2.49	0.47
32:o1:84:ASP:OD1	32:o1:84:ASP:N	2.46	0.47
34:o3:13:HIS:CD2	34:o3:28:SER:HB3	2.49	0.47
34:o3:89:LEU:HA	34:o3:90:PRO:HD3	1.72	0.47
35:o4:106:LYS:O	35:o4:110:GLU:HB2	2.14	0.47
45:6:674:C:H2'	45:6:675:U:C6	2.50	0.47
45:6:1270:G:H1'	45:6:1447:C:O2	2.15	0.47
45:6:1330:G:O5'	45:6:1330:G:H8	1.97	0.47
48:s2:90:THR:HG22	48:s2:95:ARG:HG2	1.97	0.47
48:s2:178:ILE:HG23	48:s2:196:VAL:HG12	1.97	0.47
49:s3:72:LEU:HD22	56:c0:65:TYR:HD1	1.79	0.47
50:s4:132:GLY:N	50:s4:136:VAL:O	2.48	0.47
52:s6:63:MET:HA	52:s6:98:ARG:HB3	1.97	0.47
52:s6:84:TYR:OH	52:s6:91:GLU:HG2	2.14	0.47
57:c1:92:HIS:O	57:c1:100:TYR:HA	2.15	0.47
70:d4:29:HIS:O	70:d4:32:ARG:N	2.42	0.47
3:4:52:A:N1	40:O9:35:ILE:HD13	2.30	0.47
7:L5:223:PHE:HA	7:L5:226:TYR:HD1	1.80	0.47
7:L5:240:TYR:O	7:L5:243:ALA:N	2.47	0.47
8:L6:40:LEU:HB3	8:L6:84:VAL:HG22	1.96	0.47
21:N0:71:LYS:O	21:N0:73:LYS:HE2	2.15	0.47
22:N1:79:MET:HA	22:N1:84:TYR:HA	1.96	0.47
31:O0:95:ALA:HB1	31:O0:100:ILE:CD1	2.45	0.47
45:2:927:C:H1'	60:C4:125:SER:HB2	1.97	0.47
45:2:1490:C:H4'	45:2:1491:U:OP1	2.14	0.47
47:S1:61:LEU:C	47:S1:62:LYS:HD3	2.40	0.47
62:C6:13:LYS:HG3	62:C6:79:TYR:CB	2.44	0.47
64:C8:146:ALA:HB2	79:SM:68:ARG:NH2	2.29	0.47
65:C9:25:GLN:HG3	65:C9:27:LYS:H	1.80	0.47
79:SM:89:ARG:C	79:SM:91:THR:H	2.22	0.47
1:5:132:C:H2'	1:5:133:U:H5''	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:149:U:OP2	16:m5:49:ARG:NH1	2.36	0.47
1:5:385:A:H2'	1:5:386:A:C8	2.50	0.47
1:5:442:G:H2'	1:5:443:G:H4'	1.96	0.47
1:5:980:A:N7	1:5:981:U:N3	2.62	0.47
1:5:1458:U:C2	1:5:1475:A:C2	3.03	0.47
1:5:1615:C:H2'	1:5:1616:U:C6	2.50	0.47
1:5:1715:A:H4'	1:5:1716:U:OP1	2.15	0.47
1:5:1778:G:H3'	1:5:1780:G:OP2	2.14	0.47
1:5:1953:G:O6	1:5:2094:C:N4	2.48	0.47
1:5:2183:A:O2'	4:l2:236:GLY:N	2.47	0.47
1:5:2434:U:C4'	1:5:2435:G:H5''	2.42	0.47
1:5:2524:A:H1'	1:5:2525:G:C8	2.50	0.47
1:5:2524:A:C2	4:l2:67:TYR:HB3	2.50	0.47
1:5:2697:A:H2'	1:5:2698:G:H8	1.76	0.47
6:l4:259:ASP:OD1	6:l4:259:ASP:N	2.47	0.47
7:l5:40:HIS:CE1	7:l5:42:ALA:HB3	2.50	0.47
7:l5:205:SER:O	7:l5:208:MET:N	2.48	0.47
11:l9:150:SER:HB3	11:l9:153:ASP:HB2	1.97	0.47
14:m3:140:SER:OG	14:m3:143:ALA:N	2.45	0.47
35:o4:83:ASN:HA	35:o4:86:LYS:HB3	1.97	0.47
45:6:958:U:O2'	45:6:960:U:OP2	2.29	0.47
45:6:1797:A:N1	72:d6:87:ARG:HD2	2.30	0.47
45:6:1798:U:C5	72:d6:98:PRO:HD3	2.50	0.47
85:6:2167:LLL:H23	47:s1:162:ARG:HH12	1.80	0.47
56:c0:35:ILE:CG2	56:c0:37:THR:H	2.24	0.47
58:c2:36:LEU:HD11	58:c2:102:GLY:N	2.30	0.47
65:c9:117:SER:HB2	65:c9:123:ARG:HD2	1.97	0.47
70:d4:29:HIS:N	70:d4:67:GLY:O	2.41	0.47
77:e1:92:LYS:CG	77:e1:93:HIS:H	2.26	0.47
1:1:784:A:N7	19:M8:69:ARG:HG3	2.30	0.47
1:1:966:U:N3	1:1:967:A:N7	2.63	0.47
1:1:1114:U:OP1	29:N8:23:GLY:N	2.42	0.47
1:1:2634:U:O3'	12:M0:15:LYS:NZ	2.48	0.47
1:1:2812:C:H2'	1:1:2813:A:H8	1.80	0.47
1:1:3315:G:P	5:L3:116:ARG:HH12	2.37	0.47
3:4:70:G:OP1	27:N6:121:ARG:NH1	2.48	0.47
4:L2:127:ALA:O	4:L2:169:ILE:HD11	2.13	0.47
6:L4:206:LEU:HB2	6:L4:246:ARG:HD3	1.96	0.47
7:L5:286:VAL:O	7:L5:290:ILE:HG23	2.15	0.47
9:L7:203:TRP:CD1	9:L7:204:PRO:HD2	2.50	0.47
10:L8:238:LEU:HB3	10:L8:243:GLN:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M0:52:LEU:HB2	12:M0:136:PHE:HB2	1.96	0.47
15:M4:21:VAL:HG23	15:M4:65:LEU:HA	1.96	0.47
25:N4:86:SER:O	25:N4:90:ILE:N	2.44	0.47
29:N8:56:VAL:HG13	29:N8:57:GLY:N	2.29	0.47
30:N9:7:HIS:CG	30:N9:8:THR:N	2.83	0.47
34:O3:30:ILE:HB	34:O3:81:VAL:HG12	1.97	0.47
45:2:514:G:H1	45:2:543:C:H5	1.61	0.47
45:2:1018:U:H2'	45:2:1019:A:C8	2.49	0.47
45:2:1229:G:OP2	77:E1:101:ALA:HA	2.15	0.47
45:2:1371:A:P	45:2:1371:A:H8	2.38	0.47
45:2:1619:C:H2'	45:2:1620:C:C6	2.50	0.47
46:S0:71:GLU:HA	46:S0:94:GLY:O	2.14	0.47
47:S1:131:ASP:HB3	47:S1:180:THR:HG23	1.96	0.47
51:S5:42:LEU:HD13	51:S5:47:SER:HA	1.98	0.47
61:C5:22:LEU:O	61:C5:26:LEU:HD13	2.15	0.47
64:C8:22:VAL:HG13	64:C8:31:ALA:HB1	1.97	0.47
64:C8:99:HIS:CD2	64:C8:101:LEU:HD21	2.50	0.47
65:C9:33:TYR:O	65:C9:36:ILE:HG12	2.15	0.47
73:D7:33:LEU:HA	73:D7:80:ARG:O	2.15	0.47
1:5:1093:A:C4	1:5:1096:U:C4	3.03	0.47
1:5:2659:G:H2'	1:5:2660:G:H8	1.80	0.47
1:5:2943:G:H2'	1:5:2944:U:O4'	2.15	0.47
1:5:3340:G:H5''	1:5:3341:U:OP2	2.14	0.47
8:l6:148:GLU:OE1	8:l6:151:LYS:HE3	2.15	0.47
14:m3:28:GLN:HB3	16:m5:201:ARG:HD3	1.97	0.47
20:m9:151:ARG:HA	20:m9:151:ARG:HD3	1.70	0.47
29:n8:73:LEU:HD11	29:n8:78:LEU:HA	1.97	0.47
33:o2:105:ARG:HG3	33:o2:105:ARG:HH11	1.78	0.47
33:o2:111:ARG:O	33:o2:114:ALA:HB3	2.15	0.47
45:6:72:A:H5'	45:6:73:U:OP2	2.15	0.47
45:6:183:U:H2'	45:6:184:C:H6	1.79	0.47
45:6:330:G:OP2	54:s8:172:ARG:NH1	2.47	0.47
45:6:543:C:O2'	45:6:544:A:H5'	2.15	0.47
45:6:1098:U:OP2	48:s2:168:ARG:NH2	2.48	0.47
51:s5:168:VAL:O	51:s5:172:ILE:HG13	2.15	0.47
54:s8:3:ILE:HD12	54:s8:3:ILE:H	1.80	0.47
62:c6:22:VAL:HG13	62:c6:65:ILE:HG12	1.97	0.47
66:d0:106:ILE:HG13	66:d0:107:THR:HG23	1.96	0.47
68:d2:11:LEU:HD11	68:d2:37:PHE:CE2	2.50	0.47
69:d3:69:ARG:HD3	69:d3:117:ILE:HG12	1.95	0.47
75:d9:19:ARG:CD	75:d9:32:ARG:HD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:sR:305:TYR:CD2	78:sR:311:ARG:HG3	2.50	0.47
1:1:269:G:H5'	16:M5:120:TRP:CE3	2.50	0.46
1:1:1781:C:H2'	1:1:1782:U:H6	1.80	0.46
1:1:1795:U:OP1	4:L2:191:LEU:HD22	2.14	0.46
1:1:2623:G:H2'	1:1:2624:G:H8	1.79	0.46
1:1:2680:A:C2	13:M1:57:PHE:HB3	2.50	0.46
1:1:2724:U:H4'	22:N1:54:HIS:CE1	2.50	0.46
1:1:2923:U:H2'	1:1:2924:U:C6	2.50	0.46
1:1:3157:U:H4'	1:1:3158:G:H5'	1.97	0.46
3:4:139:U:H2'	3:4:140:G:C8	2.50	0.46
6:L4:264:SER:O	6:L4:267:VAL:N	2.33	0.46
8:L6:52:VAL:HG21	8:L6:65:ILE:HD12	1.96	0.46
10:L8:150:LEU:O	10:L8:199:ALA:HA	2.14	0.46
11:L9:90:MET:HG3	11:L9:144:ILE:HG23	1.97	0.46
16:M5:143:ARG:HH21	36:O5:92:LEU:HA	1.79	0.46
18:M7:102:ALA:O	18:M7:107:LEU:HB2	2.15	0.46
18:M7:112:LEU:HG	18:M7:150:VAL:HB	1.97	0.46
19:M8:58:ASN:C	19:M8:60:PRO:HD3	2.39	0.46
29:N8:112:ILE:HB	29:N8:130:VAL:HG12	1.96	0.46
34:O3:57:LYS:HB2	34:O3:57:LYS:HE3	1.81	0.46
34:O3:59:VAL:HG21	34:O3:65:ARG:HE	1.80	0.46
42:Q1:2:ARG:NH1	45:2:1773:C:OP2	2.39	0.46
45:2:190:C:O2'	45:2:191:C:O5'	2.29	0.46
45:2:454:U:H3'	45:2:455:C:C6	2.50	0.46
45:2:764:U:OP1	55:S9:78:ARG:NH1	2.48	0.46
45:2:1018:U:H2'	45:2:1019:A:H8	1.80	0.46
45:2:1166:A:H2'	45:2:1167:G:O4'	2.16	0.46
45:2:1240:U:H1'	45:2:1244:A:N1	2.30	0.46
45:2:1265:G:H2'	45:2:1266:U:O4'	2.15	0.46
47:S1:48:VAL:CG1	47:S1:61:LEU:HD11	2.45	0.46
51:S5:57:SER:C	51:S5:59:VAL:N	2.72	0.46
51:S5:120:ILE:O	51:S5:123:VAL:HG12	2.15	0.46
51:S5:186:ASN:OD1	51:S5:188:LYS:HB2	2.15	0.46
53:S7:35:LYS:HG2	53:S7:36:ALA:H	1.80	0.46
55:S9:23:ARG:O	55:S9:27:GLU:HG3	2.15	0.46
65:C9:52:GLY:C	65:C9:54:PHE:H	2.22	0.46
66:D0:56:VAL:HB	66:D0:90:TYR:CE2	2.50	0.46
78:SR:4:ASN:O	78:SR:318:ALA:HB2	2.15	0.46
78:SR:221:MET:HE2	78:SR:221:MET:HB3	1.82	0.46
1:5:21:G:H3'	1:5:22:G:C8	2.51	0.46
1:5:391:A:C5	1:5:392:G:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1070:U:C2'	1:5:1071:U:H5'	2.44	0.46
1:5:1316:C:OP2	17:m6:133:ARG:NE	2.44	0.46
1:5:1362:G:H4'	9:l7:160:ARG:H	1.80	0.46
1:5:1637:A:H5''	28:n7:16:GLY:HA3	1.96	0.46
1:5:2841:G:H2'	1:5:2844:C:H42	1.79	0.46
2:7:46:A:OP1	7:l5:158:ARG:HD3	2.16	0.46
7:l5:64:ILE:HG13	7:l5:109:THR:HG21	1.96	0.46
10:l8:242:ALA:HA	10:l8:245:LYS:HG2	1.97	0.46
15:m4:15:VAL:O	21:n0:149:LYS:HA	2.14	0.46
17:m6:46:GLU:HB3	17:m6:134:LYS:HB3	1.97	0.46
18:m7:22:LEU:HD22	18:m7:90:PHE:HE2	1.80	0.46
22:n1:97:LYS:HG2	22:n1:98:HIS:N	2.29	0.46
29:n8:111:LYS:HG3	29:n8:129:PHE:O	2.15	0.46
45:6:71:A:H1'	45:6:81:G:N2	2.30	0.46
45:6:147:A:H2'	45:6:148:A:O4'	2.14	0.46
45:6:258:C:O2	54:s8:178:ARG:NH2	2.48	0.46
45:6:267:U:H2'	45:6:268:C:C6	2.50	0.46
45:6:677:G:O2'	45:6:678:A:H5'	2.15	0.46
45:6:1469:A:H2'	45:6:1470:C:C6	2.51	0.46
45:6:1534:G:O2'	71:d5:72:GLY:O	2.29	0.46
45:6:1725:U:H2'	45:6:1726:G:C8	2.50	0.46
49:s3:72:LEU:HD22	56:c0:65:TYR:CD1	2.50	0.46
53:s7:66:SER:O	53:s7:69:GLY:N	2.39	0.46
54:s8:96:LEU:HD13	54:s8:179:CYS:SG	2.55	0.46
69:d3:70:LYS:HE3	76:e0:8:LEU:HA	1.97	0.46
78:sR:283:LYS:HG3	78:sR:284:ALA:N	2.25	0.46
1:1:534:U:O2	21:N0:146:LYS:HA	2.15	0.46
1:1:2273:G:H22	1:1:2311:G:H2'	1.78	0.46
1:1:2663:G:H2'	1:1:2664:C:O4'	2.15	0.46
1:1:2796:G:C8	43:Q2:62:ALA:HB1	2.50	0.46
5:L3:86:VAL:HB	5:L3:198:HIS:O	2.15	0.46
5:L3:213:GLU:O	5:L3:282:ILE:HG13	2.15	0.46
5:L3:255:TRP:HD1	5:L3:255:TRP:O	1.97	0.46
5:L3:306:THR:OG1	5:L3:316:GLU:O	2.27	0.46
8:L6:18:LEU:HD22	8:L6:18:LEU:H	1.80	0.46
8:L6:92:SER:HB3	8:L6:148:GLU:OE2	2.15	0.46
9:L7:108:LEU:HD21	9:L7:115:THR:HG23	1.97	0.46
12:M0:36:LEU:HD21	12:M0:69:ARG:HD3	1.97	0.46
12:M0:48:LEU:HD22	12:M0:49:CYS:N	2.30	0.46
12:M0:52:LEU:HA	12:M0:52:LEU:HD23	1.73	0.46
15:M4:48:GLY:HA3	15:M4:53:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:M5:67:ARG:HD3	16:M5:126:THR:HG22	1.97	0.46
17:M6:47:PHE:CD1	17:M6:47:PHE:C	2.92	0.46
22:N1:119:ALA:O	22:N1:123:GLY:N	2.40	0.46
29:N8:36:GLY:HA3	29:N8:40:HIS:CE1	2.50	0.46
33:O2:105:ARG:NH1	33:O2:125:ARG:HG3	2.31	0.46
42:Q1:14:LYS:HB2	42:Q1:14:LYS:HE3	1.68	0.46
45:2:1128:C:H2'	45:2:1129:U:O4'	2.15	0.46
45:2:1301:U:H2'	45:2:1302:U:O4'	2.15	0.46
45:2:1390:U:O2	45:2:1412:G:H1'	2.15	0.46
45:2:1756:A:O2'	45:2:1757:G:OP1	2.29	0.46
46:S0:77:SER:HB2	46:S0:124:THR:HG21	1.97	0.46
50:S4:87:MET:O	50:S4:122:LYS:HD2	2.15	0.46
51:S5:133:VAL:O	51:S5:137:ILE:HG12	2.14	0.46
52:S6:29:ASP:HA	52:S6:101:ILE:HG22	1.97	0.46
52:S6:159:ARG:HG2	52:S6:172:ALA:HB2	1.97	0.46
64:C8:145:ARG:HB3	79:SM:68:ARG:NH2	2.30	0.46
72:D6:12:LYS:HB3	72:D6:33:ASP:OD2	2.14	0.46
78:SR:295:SER:HB2	78:SR:300:THR:HB	1.96	0.46
1:5:440:A:H1'	1:5:493:G:N2	2.30	0.46
1:5:639:G:OP2	33:o2:40:SER:HB2	2.15	0.46
1:5:770:G:OP1	14:m3:171:ARG:NE	2.48	0.46
1:5:1108:U:H2'	1:5:1109:U:C6	2.51	0.46
1:5:2168:A:C6	1:5:2170:U:H1'	2.50	0.46
1:5:2298:U:O4	1:5:2923:U:H5	1.98	0.46
1:5:2746:A:N1	7:l5:148:ILE:HG12	2.30	0.46
1:5:2749:G:O2'	7:l5:35:ARG:HG2	2.15	0.46
1:5:3191:G:H2'	1:5:3192:U:O4'	2.14	0.46
3:8:26:U:H2'	3:8:27:U:C6	2.50	0.46
5:l3:159:ARG:HG2	5:l3:182:GLN:HA	1.96	0.46
6:l4:25:VAL:O	6:l4:127:ALA:HB2	2.15	0.46
8:l6:129:GLU:O	8:l6:130:ILE:C	2.57	0.46
11:l9:163:GLN:O	11:l9:166:ARG:HG3	2.15	0.46
80:m2:63:UNK:HA	80:m2:72:UNK:HA	1.97	0.46
15:m4:21:VAL:HG13	15:m4:63:VAL:HG21	1.97	0.46
36:o5:93:THR:OG1	36:o5:96:GLU:OE1	2.13	0.46
43:q2:35:LEU:O	43:q2:35:LEU:HD23	2.16	0.46
45:6:195:G:H2'	45:6:195:G:N3	2.29	0.46
45:6:343:C:H2'	45:6:344:A:C8	2.49	0.46
45:6:1383:G:OP1	66:d0:89:ARG:NH2	2.45	0.46
45:6:1390:U:OP1	63:c7:5:ARG:HD2	2.15	0.46
45:6:1508:U:H2'	45:6:1509:C:H6	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:s0:120:LEU:HD11	46:s0:144:ILE:HD11	1.97	0.46
48:s2:97:ARG:HE	48:s2:97:ARG:HB2	1.34	0.46
48:s2:162:CYS:N	48:s2:213:ALA:HB2	2.30	0.46
49:s3:222:VAL:HG11	78:sR:229:LYS:HG3	1.97	0.46
50:s4:26:CYS:SG	55:s9:3:ARG:HG3	2.55	0.46
51:s5:163:SER:HB2	74:d8:48:VAL:HG22	1.96	0.46
52:s6:75:LEU:HD12	52:s6:97:VAL:HG11	1.98	0.46
70:d4:91:LEU:HD22	70:d4:96:LEU:HD12	1.96	0.46
78:sR:40:LYS:HG2	78:sR:66:HIS:O	2.15	0.46
1:1:338:A:H4'	6:L4:197:ARG:HH12	1.79	0.46
1:1:384:A:H2'	1:1:385:A:O4'	2.14	0.46
1:1:391:A:H2'	1:1:392:G:O4'	2.15	0.46
1:1:682:U:C5	6:L4:112:LYS:HD2	2.50	0.46
1:1:686:G:OP2	14:M3:39:ARG:NH2	2.48	0.46
1:1:726:G:H5''	1:1:726:G:H8	1.79	0.46
1:1:807:A:C2	1:1:808:A:C8	3.04	0.46
1:1:1131:G:C2	1:1:2373:A:C4	3.04	0.46
1:1:1588:A:C6	40:O9:4:GLN:HG2	2.51	0.46
1:1:2155:G:O2'	4:L2:227:ARG:NH2	2.49	0.46
1:1:2568:C:O2	1:1:2574:G:N2	2.48	0.46
4:L2:114:SER:HB2	4:L2:169:ILE:HD11	1.97	0.46
5:L3:296:THR:HG21	5:L3:357:LYS:C	2.39	0.46
9:L7:90:LYS:HB2	9:L7:220:PHE:HE1	1.80	0.46
11:L9:28:VAL:HG13	11:L9:33:THR:HG22	1.98	0.46
13:M1:12:LEU:HD12	13:M1:131:MET:HE3	1.95	0.46
20:M9:172:ARG:O	20:M9:176:ARG:N	2.46	0.46
26:N5:76:VAL:HG12	26:N5:133:LEU:HA	1.98	0.46
29:N8:96:LYS:C	29:N8:98:THR:H	2.23	0.46
45:2:190:C:O2'	45:2:191:C:H6	1.98	0.46
45:2:649:U:HO2'	45:2:650:U:P	2.37	0.46
45:2:782:U:H4'	45:2:783:G:H5''	1.96	0.46
45:2:1380:U:H2'	45:2:1381:U:C6	2.51	0.46
45:2:1536:G:C6	45:2:1538:U:H1'	2.51	0.46
47:S1:30:PHE:CZ	47:S1:94:LYS:HA	2.49	0.46
51:S5:124:LEU:HD11	71:D5:59:TYR:CD1	2.51	0.46
51:S5:166:ARG:HA	51:S5:169:ASN:HB2	1.97	0.46
52:S6:216:LEU:HD22	52:S6:220:LYS:HE3	1.97	0.46
56:C0:23:ALA:O	56:C0:64:TYR:HB2	2.15	0.46
58:C2:89:ILE:HG12	58:C2:90:LYS:H	1.81	0.46
77:E1:140:TYR:HA	77:E1:149:LYS:HA	1.97	0.46
1:5:661:G:OP1	29:n8:12:ARG:NH2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:706:A:H4'	1:5:781:G:O2'	2.15	0.46
1:5:1100:U:H2'	1:5:1101:G:O4'	2.16	0.46
1:5:1760:A:C2'	1:5:1761:C:H5'	2.46	0.46
1:5:2100:A:O2'	20:m9:71:ARG:HG2	2.15	0.46
1:5:2155:G:O2'	4:l2:227:ARG:NH2	2.42	0.46
1:5:2266:U:H2'	1:5:2267:C:C6	2.50	0.46
1:5:2318:U:H2'	1:5:2319:U:O4'	2.15	0.46
1:5:2649:A:O2'	1:5:2650:U:H5'	2.15	0.46
1:5:3207:U:H5'	1:5:3209:A:H2	1.80	0.46
1:5:3372:A:C6	1:5:3373:U:C4	3.03	0.46
2:7:6:C:H5''	7:l5:54:ARG:HH21	1.80	0.46
3:8:77:A:H2'	3:8:78:G:O4'	2.16	0.46
10:l8:140:VAL:HG21	16:m5:3:ALA:HB2	1.97	0.46
11:l9:16:VAL:HG11	11:l9:79:ILE:HG23	1.98	0.46
14:m3:83:ALA:HB2	14:m3:113:VAL:HG13	1.97	0.46
14:m3:188:ARG:O	14:m3:192:GLU:HG3	2.16	0.46
16:m5:39:ALA:HB3	16:m5:61:ILE:O	2.15	0.46
21:n0:8:GLN:HB2	21:n0:64:ILE:HD11	1.97	0.46
21:n0:137:ARG:HG2	21:n0:139:TYR:CZ	2.51	0.46
28:n7:123:GLN:C	28:n7:125:GLY:H	2.23	0.46
45:6:826:U:H3	45:6:846:G:H1	1.62	0.46
45:6:1072:C:H4'	59:c3:11:ILE:HD11	1.97	0.46
61:c5:96:ILE:HD13	61:c5:116:LEU:HB3	1.97	0.46
1:1:21:G:H1	3:4:138:A:H61	1.63	0.46
1:1:24:G:H5'	38:O7:59:THR:HG23	1.98	0.46
1:1:761:A:H2'	1:1:762:U:O4'	2.15	0.46
1:1:817:A:C4	38:O7:13:ASN:O	2.69	0.46
1:1:1062:A:H1'	22:N1:130:ARG:HH22	1.81	0.46
1:1:1084:A:H4'	7:L5:44:TYR:CE2	2.50	0.46
1:1:2111:G:H4'	1:1:2112:U:OP2	2.16	0.46
1:1:2723:U:OP1	22:N1:87:LYS:HE2	2.16	0.46
2:3:15:C:C2	2:3:66:A:C2	3.03	0.46
2:3:22:A:H2'	2:3:23:A:C8	2.50	0.46
85:4:224:LLL:N32	85:4:224:LLL:O51	2.49	0.46
4:L2:92:LYS:HA	4:L2:103:PRO:HD2	1.97	0.46
4:L2:227:ARG:HG2	4:L2:239:ALA:HB2	1.96	0.46
7:L5:106:ALA:HA	7:L5:171:LEU:HD11	1.96	0.46
10:L8:72:PRO:HG3	16:M5:18:VAL:HA	1.98	0.46
10:L8:171:LYS:HG2	10:L8:226:TYR:CD2	2.50	0.46
19:M8:48:VAL:O	19:M8:52:LEU:HG	2.16	0.46
20:M9:23:TRP:CZ2	20:M9:25:ASP:HB3	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Q3:45:LYS:HB2	44:Q3:45:LYS:HE3	1.50	0.46
45:2:16:G:O2'	45:2:17:C:O4'	2.31	0.46
45:2:142:G:N2	45:2:173:A:H2	2.04	0.46
45:2:233:C:O2'	45:2:234:G:OP1	2.31	0.46
45:2:1533:C:H5''	71:D5:74:SER:OG	2.15	0.46
48:S2:101:VAL:HG13	48:S2:115:ILE:HG12	1.98	0.46
49:S3:209:ILE:HD12	49:S3:209:ILE:HA	1.85	0.46
50:S4:31:PRO:HB2	50:S4:38:LEU:HD22	1.97	0.46
51:S5:48:PHE:CG	51:S5:67:PRO:HB3	2.51	0.46
56:C0:24:LYS:NZ	56:C0:29:GLN:OE1	2.48	0.46
61:C5:34:VAL:O	61:C5:42:ARG:HG2	2.16	0.46
65:C9:52:GLY:HA2	65:C9:55:TYR:HD2	1.79	0.46
66:D0:105:GLN:HG3	66:D0:106:ILE:N	2.30	0.46
78:SR:180:ALA:HB3	78:SR:190:ALA:HB3	1.97	0.46
78:SR:256:THR:HG21	78:SR:261:LYS:HD2	1.97	0.46
78:SR:282:SER:O	78:SR:286:GLU:HG3	2.15	0.46
1:5:2137:U:O2'	85:5:4157:LLL:N33	2.48	0.46
1:5:2181:C:H5''	4:12:193:ARG:HH21	1.79	0.46
1:5:2257:C:OP1	1:5:2257:C:H3'	2.16	0.46
1:5:3384:U:H2'	1:5:3385:U:C6	2.50	0.46
2:7:22:A:H1'	7:15:272:TYR:CE2	2.50	0.46
3:8:111:A:C6	38:o7:29:VAL:HG11	2.50	0.46
13:m1:137:ARG:O	13:m1:141:ARG:HG2	2.15	0.46
23:n2:18:ASP:N	23:n2:103:TYR:O	2.38	0.46
28:n7:136:PHE:HB2	35:o4:88:ARG:HG3	1.97	0.46
34:o3:85:PHE:HB2	34:o3:87:ASN:O	2.15	0.46
35:o4:79:SER:HB3	35:o4:80:ARG:NE	2.25	0.46
38:o7:16:HIS:HB3	38:o7:27:PHE:C	2.40	0.46
43:q2:22:GLN:O	43:q2:75:VAL:HG22	2.16	0.46
45:6:116:U:H2'	45:6:117:U:H6	1.80	0.46
45:6:692:C:H2'	45:6:693:U:C6	2.50	0.46
45:6:746:A:N6	45:6:803:A:H2	2.14	0.46
45:6:768:C:H1'	55:s9:143:ILE:HG21	1.97	0.46
45:6:802:G:C6	45:6:803:A:C6	3.04	0.46
45:6:918:U:H2'	45:6:919:A:C8	2.49	0.46
48:s2:160:GLY:HA3	48:s2:216:VAL:HG12	1.96	0.46
50:s4:9:LEU:HD13	50:s4:28:ALA:HB3	1.97	0.46
50:s4:50:ASN:O	50:s4:51:ARG:NE	2.46	0.46
50:s4:87:MET:HE3	50:s4:226:PHE:CE1	2.49	0.46
52:s6:122:GLU:O	52:s6:126:ASP:HB3	2.16	0.46
52:s6:153:VAL:O	52:s6:155:ASP:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:s9:86:LEU:CD1	55:s9:90:LYS:HB3	2.45	0.46
55:s9:111:THR:O	55:s9:115:LYS:HB2	2.15	0.46
64:c8:4:VAL:O	64:c8:5:VAL:HG13	2.15	0.46
66:d0:37:VAL:O	66:d0:41:ILE:HD12	2.15	0.46
1:1:109:A:H4'	1:1:110:G:OP1	2.16	0.46
1:1:188:U:O2'	1:1:207:U:O2	2.29	0.46
1:1:1350:A:O2'	1:1:1351:U:H5'	2.15	0.46
1:1:1715:A:C8	1:1:1717:U:H5''	2.51	0.46
1:1:1922:A:H2'	1:1:1923:C:O4'	2.16	0.46
1:1:2338:C:OP1	5:L3:236:LYS:NZ	2.42	0.46
2:3:9:C:C5	2:3:10:C:C4	3.03	0.46
5:L3:29:VAL:HG22	5:L3:218:ILE:HD12	1.98	0.46
7:L5:211:LEU:HB3	7:L5:219:PHE:CD2	2.50	0.46
18:M7:39:TRP:O	18:M7:114:VAL:HG12	2.16	0.46
28:N7:32:GLY:HA2	28:N7:38:PHE:H	1.80	0.46
29:N8:74:ASN:HB2	29:N8:76:ASP:HB2	1.97	0.46
45:2:420:A:H2'	45:2:421:A:O4'	2.16	0.46
45:2:1199:G:O6	66:D0:67:THR:OG1	2.29	0.46
45:2:1327:C:C2	45:2:1328:G:C8	3.03	0.46
45:2:1487:A:H2'	45:2:1488:G:C8	2.50	0.46
46:S0:13:ASP:HA	46:S0:16:LEU:HB2	1.97	0.46
46:S0:109:ASN:O	46:S0:112:THR:HG22	2.16	0.46
47:S1:181:LEU:O	47:S1:185:THR:OG1	2.25	0.46
50:S4:121:TYR:CD2	50:S4:161:LYS:HE3	2.51	0.46
53:S7:63:PRO:HB2	53:S7:65:PRO:HD2	1.97	0.46
58:C2:106:ILE:HA	58:C2:111:ASN:O	2.15	0.46
58:C2:119:SER:OG	58:C2:120:VAL:HG23	2.16	0.46
59:C3:33:VAL:HG11	59:C3:66:ILE:HD13	1.98	0.46
64:C8:111:ASP:N	64:C8:111:ASP:OD1	2.46	0.46
68:D2:30:SER:O	68:D2:34:ILE:HD12	2.15	0.46
69:D3:93:LEU:HD21	76:E0:8:LEU:HD13	1.98	0.46
69:D3:96:VAL:HG23	69:D3:97:ASP:H	1.79	0.46
72:D6:10:ARG:HE	72:D6:34:LYS:C	2.24	0.46
1:5:378:A:C2	1:5:379:C:H1'	2.51	0.46
1:5:1017:C:OP2	1:5:1017:C:H2'	2.15	0.46
1:5:2359:C:H2'	1:5:2360:C:C6	2.51	0.46
1:5:2550:U:C6	10:l8:37:GLY:HA3	2.50	0.46
87:5:4525:HOH:O	19:m8:3:ILE:HD11	2.16	0.46
3:8:89:A:H8	3:8:89:A:O5'	1.97	0.46
9:l7:221:LYS:O	9:l7:229:PHE:HB3	2.15	0.46
13:m1:133:ARG:HD3	13:m1:152:HIS:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:m2:126:UNK:O	80:m2:130:UNK:N	2.49	0.46
18:m7:28:ASN:O	18:m7:32:THR:HG23	2.15	0.46
22:n1:56:PHE:C	22:n1:56:PHE:CD1	2.93	0.46
31:o0:24:THR:HG23	31:o0:30:THR:HG22	1.98	0.46
35:o4:82:ALA:O	35:o4:83:ASN:C	2.58	0.46
37:o6:57:LEU:O	37:o6:61:ILE:HG13	2.15	0.46
45:6:763:G:H2'	45:6:764:U:C6	2.50	0.46
45:6:1207:C:C4	45:6:1456:C:H5	2.33	0.46
45:6:1462:G:N7	64:c8:143:ARG:NH2	2.64	0.46
45:6:1591:C:H2'	45:6:1592:A:C8	2.51	0.46
53:s7:74:GLN:O	53:s7:78:THR:OG1	2.25	0.46
59:c3:4:MET:HE2	59:c3:124:ARG:NH2	2.31	0.46
70:d4:49:LYS:HD3	70:d4:49:LYS:N	2.31	0.46
78:sR:16:HIS:CE1	78:sR:43:ILE:HG12	2.50	0.46
78:sR:156:VAL:HA	78:sR:169:ILE:HG22	1.98	0.46
78:sR:194:GLY:HA2	78:sR:221:MET:HE1	1.97	0.46
79:sM:103:LYS:HA	79:sM:106:VAL:HG22	1.97	0.46
1:1:168:U:H2'	1:1:169:U:C6	2.49	0.46
1:1:436:A:H3'	1:1:437:G:C8	2.51	0.46
1:1:1047:A:N3	1:1:2633:U:O2'	2.46	0.46
1:1:1382:G:P	6:L4:188:ARG:HH12	2.39	0.46
1:1:1422:G:H21	8:L6:5:LYS:HZ1	1.64	0.46
1:1:1820:U:HO2'	1:1:1821:U:P	2.37	0.46
1:1:2882:U:H2'	1:1:2883:U:C6	2.50	0.46
4:L2:29:LEU:HA	4:L2:76:PHE:CE1	2.46	0.46
5:L3:296:THR:HG21	5:L3:357:LYS:O	2.15	0.46
8:L6:153:PRO:O	8:L6:154:LEU:HB2	2.16	0.46
9:L7:28:ALA:C	9:L7:30:ARG:H	2.23	0.46
13:M1:139:THR:HG22	13:M1:146:GLY:O	2.15	0.46
15:M4:54:PRO:O	15:M4:56:GLN:HG2	2.14	0.46
17:M6:12:LYS:HD2	17:M6:37:ARG:NH2	2.31	0.46
28:N7:4:PHE:HE2	31:O0:63:SER:HB3	1.81	0.46
33:O2:20:HIS:O	33:O2:21:HIS:HB2	2.15	0.46
36:O5:24:LEU:HB3	36:O5:51:ILE:HG12	1.97	0.46
36:O5:118:ILE:O	36:O5:119:LYS:HB3	2.16	0.46
45:2:189:C:H2'	45:2:190:C:H5'	1.98	0.46
45:2:328:A:H2'	45:2:329:G:C8	2.49	0.46
45:2:1143:A:O2'	45:2:1144:U:H5'	2.15	0.46
45:2:1174:C:H2'	45:2:1175:U:O4'	2.15	0.46
46:S0:126:PRO:HG2	46:S0:151:SER:HB3	1.98	0.46
48:S2:111:VAL:O	48:S2:136:VAL:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:S7:56:LYS:HB2	53:S7:88:ARG:CZ	2.45	0.46
54:S8:49:ARG:O	54:S8:52:ASN:ND2	2.49	0.46
56:C0:50:THR:HG21	56:C0:57:THR:OG1	2.15	0.46
62:C6:97:VAL:HG22	62:C6:98:ASP:H	1.78	0.46
64:C8:2:SER:OG	64:C8:3:LEU:N	2.45	0.46
71:D5:97:LYS:HB2	71:D5:97:LYS:HE3	1.82	0.46
72:D6:88:SER:HB3	72:D6:91:ASP:OD1	2.16	0.46
73:D7:81:ARG:O	73:D7:82:LYS:HB2	2.15	0.46
1:5:222:A:H62	85:5:4171:LLL:C53	2.28	0.46
1:5:1833:G:O2'	40:o9:4:GLN:HA	2.16	0.46
1:5:2209:U:H1'	1:5:2210:G:H5''	1.96	0.46
1:5:2444:C:N4	1:5:2503:G:H22	2.14	0.46
1:5:2605:G:N7	85:5:4166:LLL:N12	2.64	0.46
1:5:2949:U:OP1	87:5:4277:HOH:O	2.20	0.46
2:7:44:C:H4'	7:15:152:ARG:NH1	2.30	0.46
4:12:192:LYS:HB3	4:12:193:ARG:NH1	2.30	0.46
4:12:227:ARG:HB2	4:12:239:ALA:HB2	1.97	0.46
5:13:323:MET:HE1	5:13:356:LEU:CD1	2.46	0.46
6:14:35:VAL:HG21	6:14:244:LEU:HD21	1.98	0.46
11:19:93:VAL:O	11:19:177:ASP:HA	2.16	0.46
13:m1:101:ASN:HB3	13:m1:130:VAL:HA	1.98	0.46
14:m3:3:ILE:HG12	29:n8:34:MET:HE2	1.98	0.46
23:n2:18:ASP:HB3	23:n2:104:ARG:HA	1.97	0.46
23:n2:22:PRO:HA	23:n2:107:PHE:CD1	2.50	0.46
27:n6:120:GLN:NE2	27:n6:126:LEU:HA	2.31	0.46
29:n8:46:ASP:OD1	29:n8:46:ASP:N	2.49	0.46
38:o7:84:SER:O	38:o7:85:LYS:HB3	2.16	0.46
82:p0:198:PRO:HG2	82:p0:201:ILE:H	1.80	0.46
45:6:114:C:H6	45:6:114:C:H5'	1.80	0.46
45:6:281:G:H2'	45:6:282:C:C6	2.51	0.46
45:6:885:G:OP1	47:s1:216:LYS:NZ	2.48	0.46
47:s1:48:VAL:HG22	47:s1:64:ARG:NH2	2.31	0.46
51:s5:32:GLU:HG3	51:s5:33:VAL:N	2.30	0.46
52:s6:137:ARG:O	52:s6:141:ILE:HG13	2.16	0.46
56:c0:15:LEU:HD22	56:c0:68:LEU:HD22	1.97	0.46
63:c7:25:THR:OG1	63:c7:31:ASN:ND2	2.48	0.46
1:1:576:C:H2'	1:1:577:C:H6	1.81	0.46
1:1:748:U:H2'	1:1:749:C:C6	2.51	0.46
1:1:911:C:OP1	4:L2:14:SER:OG	2.34	0.46
1:1:1100:U:OP2	9:L7:196:LYS:HE3	2.16	0.46
1:1:1580:A:H1'	1:1:1581:C:H5	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1742:U:C2	1:1:1743:G:C8	3.04	0.46
1:1:3011:A:C8	5:L3:13:HIS:CE1	3.04	0.46
2:3:9:C:H5	2:3:10:C:C4	2.33	0.46
4:L2:108:PRO:HG2	44:Q3:86:LEU:HD13	1.98	0.46
4:L2:174:ARG:HA	44:Q3:69:TYR:CE2	2.50	0.46
4:L2:192:LYS:HD3	4:L2:193:ARG:HH12	1.80	0.46
4:L2:242:ARG:NH2	4:L2:244:GLY:O	2.39	0.46
7:L5:20:PHE:HD1	7:L5:30:TYR:CZ	2.34	0.46
8:L6:69:PHE:N	8:L6:142:ASP:OD2	2.48	0.46
9:L7:88:ARG:NH1	9:L7:91:GLY:O	2.49	0.46
9:L7:180:SER:H	9:L7:183:ASP:HB2	1.81	0.46
12:M0:51:HIS:HB3	12:M0:134:ILE:HG23	1.97	0.46
21:N0:96:ASP:OD1	21:N0:97:VAL:N	2.41	0.46
29:N8:74:ASN:CB	29:N8:115:LYS:HB2	2.46	0.46
35:O4:21:LYS:HG2	35:O4:23:VAL:HG23	1.98	0.46
45:2:248:U:H4'	57:C1:36:LYS:HD3	1.98	0.46
45:2:650:U:O4	45:2:684:A:N6	2.49	0.46
45:2:1165:G:H2'	45:2:1166:A:H8	1.80	0.46
45:2:1460:A:OP1	79:SM:68:ARG:HG2	2.16	0.46
51:S5:90:ILE:O	51:S5:94:THR:HG23	2.16	0.46
58:C2:50:LYS:O	58:C2:54:ARG:HG2	2.16	0.46
59:C3:5:HIS:ND1	59:C3:117:LEU:HB3	2.31	0.46
61:C5:90:ILE:HD11	61:C5:112:LEU:HD11	1.97	0.46
1:5:561:C:OP1	15:m4:77:ARG:HG3	2.15	0.46
1:5:1555:U:H5	1:5:1557:A:N7	2.14	0.46
1:5:1673:G:C6	1:5:1775:G:C6	3.03	0.46
1:5:1805:C:H2'	1:5:1806:A:C8	2.49	0.46
2:7:52:G:O2'	2:7:53:U:H5'	2.15	0.46
6:l4:226:GLU:CD	6:l4:246:ARG:HH22	2.24	0.46
9:l7:26:VAL:HG13	9:l7:27:ALA:H	1.80	0.46
9:l7:151:ARG:HD2	9:l7:244:ASN:OD1	2.16	0.46
11:l9:18:VAL:HB	11:l9:27:VAL:HG22	1.98	0.46
14:m3:47:ALA:O	14:m3:49:ARG:N	2.45	0.46
15:m4:128:ARG:HG2	15:m4:132:LYS:HG3	1.97	0.46
17:m6:56:ASP:O	17:m6:59:ARG:HG2	2.15	0.46
19:m8:64:VAL:HB	19:m8:88:THR:O	2.16	0.46
20:m9:167:ARG:HA	20:m9:167:ARG:HD2	1.75	0.46
21:n0:12:ARG:HB3	21:n0:24:LEU:HD23	1.98	0.46
21:n0:31:ALA:HB1	21:n0:36:ILE:HG22	1.96	0.46
81:n4:21:PHE:CZ	81:n4:23:ARG:HA	2.51	0.46
35:o4:7:PHE:HE2	35:o4:12:PRO:O	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:o6:58:ILE:HG22	37:o6:90:MET:HG3	1.96	0.46
39:o8:43:PHE:HE1	39:o8:66:ILE:HG12	1.81	0.46
43:q2:71:ARG:NH1	43:q2:80:ARG:HD2	2.30	0.46
45:6:219:A:C6	45:6:843:U:H1'	2.51	0.46
45:6:249:U:H3'	45:6:250:C:H5'	1.96	0.46
45:6:1648:A:H2'	45:6:1649:G:H8	1.81	0.46
45:6:1688:U:H3	45:6:1713:G:H1	1.63	0.46
46:s0:180:GLU:HA	46:s0:183:ARG:HB2	1.98	0.46
47:s1:27:LYS:NZ	60:c4:37:GLU:OE1	2.39	0.46
50:s4:191:ARG:NH1	50:s4:245:LYS:HB3	2.31	0.46
59:c3:62:GLN:HG3	59:c3:65:VAL:HG12	1.97	0.46
60:c4:46:MET:HE2	60:c4:46:MET:HB3	1.76	0.46
64:c8:83:ALA:HA	64:c8:86:LEU:HD22	1.98	0.46
65:c9:49:ASP:O	65:c9:53:TRP:HB3	2.16	0.46
1:1:986:U:H2'	1:1:987:U:O4'	2.15	0.46
1:1:1308:A:OP2	1:1:1308:A:H8	1.98	0.46
1:1:1481:A:C2'	1:1:1858:A:H1'	2.46	0.46
1:1:2401:A:H4'	6:L4:68:GLY:O	2.15	0.46
85:3:220:LLL:O52	85:3:220:LLL:H11	2.16	0.46
5:L3:83:PRO:HG3	5:L3:204:ALA:HB2	1.98	0.46
5:L3:347:SER:HB3	5:L3:350:ALA:H	1.80	0.46
8:L6:50:LYS:HG2	8:L6:74:VAL:HG23	1.98	0.46
9:L7:108:LEU:HD22	9:L7:113:SER:O	2.15	0.46
15:M4:131:VAL:HG13	17:M6:181:ALA:HB1	1.98	0.46
17:M6:65:ASN:HB3	17:M6:68:ARG:HD3	1.97	0.46
19:M8:98:LYS:HG3	19:M8:98:LYS:O	2.15	0.46
21:N0:45:LEU:HD22	21:N0:45:LEU:HA	1.76	0.46
28:N7:10:VAL:HB	28:N7:83:THR:CG2	2.46	0.46
29:N8:14:HIS:C	29:N8:15:VAL:HG23	2.41	0.46
45:2:92:A:P	45:2:398:G:H22	2.39	0.46
45:2:449:C:H42	45:2:457:G:H1	1.62	0.46
45:2:915:A:C5	45:2:916:U:C4	3.03	0.46
45:2:1110:G:N1	45:2:1136:U:O2	2.49	0.46
47:S1:48:VAL:CG2	47:S1:61:LEU:HD21	2.46	0.46
53:S7:98:ILE:HG21	53:S7:118:LEU:HD23	1.98	0.46
56:C0:50:THR:HG22	56:C0:55:VAL:HG22	1.98	0.46
57:C1:30:ARG:HB3	57:C1:31:THR:H	1.61	0.46
63:C7:71:PHE:CE1	63:C7:74:GLN:HG3	2.51	0.46
65:C9:86:ARG:HG3	65:C9:90:PRO:O	2.16	0.46
66:D0:106:ILE:O	66:D0:107:THR:OG1	2.28	0.46
69:D3:76:LEU:O	69:D3:80:GLY:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:209:A:OP1	6:14:161:LYS:NZ	2.35	0.46
1:5:225:C:O3'	27:n6:32:SER:OG	2.34	0.46
1:5:547:G:N1	1:5:548:G:N3	2.64	0.46
1:5:716:A:C2	1:5:720:A:H5''	2.50	0.46
1:5:1103:A:O2'	1:5:1103:A:N3	2.41	0.46
1:5:2594:C:H2'	1:5:2595:A:O4'	2.15	0.46
1:5:2599:U:OP1	16:m5:70:ASN:HB2	2.16	0.46
1:5:2931:C:H2'	1:5:2932:U:O4'	2.16	0.46
1:5:3083:G:H2'	1:5:3084:C:O4'	2.16	0.46
1:5:3139:A:OP2	5:l3:30:LYS:NZ	2.48	0.46
85:5:4152:LLL:H532	85:5:4152:LLL:O52	2.16	0.46
3:8:136:G:OP1	26:n5:48:SER:OG	2.26	0.46
4:l2:195:SER:OG	4:l2:196:TRP:N	2.49	0.46
5:l3:199:PHE:C	5:l3:201:LYS:H	2.23	0.46
6:l4:338:LYS:C	6:l4:340:GLY:H	2.24	0.46
6:l4:351:PRO:HA	9:l7:71:ALA:HA	1.98	0.46
7:l5:178:ASN:HA	7:l5:183:TRP:CG	2.51	0.46
17:m6:65:ASN:HB3	17:m6:68:ARG:HD3	1.98	0.46
19:m8:170:ARG:O	19:m8:171:LYS:HG2	2.15	0.46
23:n2:39:ASP:O	23:n2:47:VAL:HB	2.16	0.46
27:n6:110:HIS:O	27:n6:115:ARG:HG3	2.16	0.46
39:o8:26:LYS:HD2	39:o8:27:ILE:H	1.81	0.46
45:6:188:A:H2'	45:6:189:C:O4'	2.15	0.46
45:6:260:U:H3'	45:6:261:U:H5''	1.97	0.46
45:6:1374:C:H2'	45:6:1375:A:H8	1.81	0.46
46:s0:77:SER:HB2	46:s0:124:THR:CG2	2.46	0.46
50:s4:212:ASP:OD1	50:s4:212:ASP:N	2.49	0.46
51:s5:71:ALA:HB2	51:s5:90:ILE:HG22	1.97	0.46
55:s9:171:ARG:HE	55:s9:174:ARG:CB	2.29	0.46
58:c2:31:VAL:HA	58:c2:34:THR:OG1	2.16	0.46
60:c4:12:GLN:NE2	60:c4:111:ARG:HG3	2.19	0.46
62:c6:100:GLN:OE1	78:sR:56:VAL:HB	2.15	0.46
63:c7:88:VAL:CG1	63:c7:89:SER:N	2.77	0.46
71:d5:93:SER:HB3	71:d5:100:ILE:HD12	1.97	0.46
1:1:144:A:H2'	1:1:145:G:O4'	2.16	0.46
1:1:674:G:O2'	6:L4:116:ASN:OD1	2.29	0.46
1:1:1189:C:H42	1:1:1315:U:H1'	1.81	0.46
1:1:1492:G:O2'	40:O9:48:LYS:NZ	2.49	0.46
1:1:1517:G:P	40:O9:41:ARG:HH22	2.38	0.46
1:1:1522:U:OP1	26:N5:123:TYR:OH	2.33	0.46
1:1:1560:G:O2'	1:1:1561:G:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1781:C:H2'	1:1:1782:U:C6	2.51	0.46
1:1:1825:G:H4'	39:O8:19:ASP:OD2	2.16	0.46
1:1:1841:A:H1'	1:1:1848:G:O4'	2.16	0.46
1:1:2107:A:C2	1:1:3344:A:C8	3.04	0.46
1:1:2259:A:H2'	1:1:2260:U:O4'	2.16	0.46
1:1:2536:A:H2'	1:1:2537:U:C5	2.50	0.46
5:L3:188:ILE:H	5:L3:188:ILE:HG13	1.52	0.46
5:L3:255:TRP:CD1	5:L3:255:TRP:C	2.93	0.46
6:L4:20:LEU:HD11	6:L4:252:GLU:HG3	1.97	0.46
6:L4:72:ALA:O	6:L4:76:ARG:NH1	2.41	0.46
9:L7:43:ILE:O	9:L7:46:GLU:HG2	2.16	0.46
11:L9:18:VAL:HG12	11:L9:27:VAL:HG13	1.98	0.46
11:L9:20:ILE:HG23	11:L9:25:VAL:HG22	1.97	0.46
16:M5:73:ARG:HE	16:M5:92:LEU:CD2	2.29	0.46
20:M9:23:TRP:CE3	20:M9:51:VAL:HG22	2.51	0.46
21:N0:117:ARG:H	21:N0:117:ARG:HG2	1.47	0.46
33:O2:97:ALA:HB3	33:O2:100:ILE:HG12	1.97	0.46
45:2:108:A:H2'	45:2:109:G:C8	2.51	0.46
45:2:391:A:O2'	45:2:1730:A:H4'	2.15	0.46
45:2:477:A:H5'	76:E0:34:ALA:CB	2.46	0.46
45:2:572:C:O5'	45:2:572:C:H6	1.99	0.46
45:2:804:A:H1'	68:D2:106:THR:O	2.16	0.46
45:2:955:A:H5''	59:C3:10:GLY:HA3	1.97	0.46
45:2:1282:U:H2'	45:2:1283:U:C6	2.51	0.46
45:2:1435:G:H4'	45:2:1436:A:H5'	1.98	0.46
45:2:1489:U:O2'	45:2:1490:C:OP1	2.25	0.46
46:S0:175:TYR:HD1	46:S0:202:TYR:CE2	2.34	0.46
48:S2:58:LEU:HA	67:D1:12:TYR:CE1	2.51	0.46
53:S7:44:LYS:HE2	53:S7:44:LYS:HB3	1.81	0.46
53:S7:56:LYS:HD2	53:S7:88:ARG:NH2	2.30	0.46
64:C8:127:HIS:CD2	64:C8:133:VAL:HG11	2.51	0.46
66:D0:21:LYS:O	66:D0:118:VAL:HG23	2.16	0.46
66:D0:26:LEU:N	66:D0:89:ARG:O	2.41	0.46
71:D5:89:ILE:HD12	71:D5:101:TYR:CE1	2.50	0.46
1:5:80:G:O2'	1:5:326:U:H4'	2.16	0.46
1:5:127:G:H2'	1:5:128:G:C8	2.51	0.46
1:5:1249:G:H2'	1:5:1250:G:C8	2.51	0.46
1:5:2642:A:C2	1:5:2643:A:C6	3.03	0.46
1:5:2656:A:C8	1:5:2658:G:C8	3.04	0.46
1:5:2917:G:N7	85:5:4169:LLL:H931	2.31	0.46
1:5:3055:U:H1'	1:5:3057:U:OP2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l2:72:ARG:HA	4:l2:72:ARG:HD3	1.78	0.46
7:l5:108:ARG:NH2	7:l5:253:PHE:HA	2.31	0.46
12:m0:169:LYS:O	12:m0:169:LYS:HG2	2.15	0.46
80:m2:112:UNK:O	80:m2:116:UNK:N	2.48	0.46
15:m4:14:LEU:H	15:m4:19:ARG:NH1	2.14	0.46
17:m6:189:ASP:O	17:m6:193:GLN:HG3	2.16	0.46
19:m8:116:LYS:C	19:m8:118:GLY:H	2.23	0.46
26:n5:45:LYS:HD3	36:o5:75:TYR:CE2	2.51	0.46
29:n8:76:ASP:N	29:n8:115:LYS:O	2.48	0.46
45:6:329:G:OP1	54:s8:98:LYS:NZ	2.48	0.46
45:6:478:A:H5''	55:s9:123:HIS:HB3	1.96	0.46
45:6:696:C:OP1	53:s7:100:PRO:HG3	2.16	0.46
45:6:819:G:N1	45:6:853:G:C2	2.84	0.46
45:6:917:U:O2	60:c4:41:ARG:NH1	2.49	0.46
45:6:1784:C:H2'	45:6:1785:U:H6	1.81	0.46
48:s2:229:LEU:HD11	67:d1:10:GLU:OE1	2.15	0.46
50:s4:122:LYS:HG3	50:s4:123:LEU:O	2.16	0.46
51:s5:120:ILE:O	51:s5:124:LEU:HD13	2.16	0.46
52:s6:136:LYS:HG3	52:s6:173:PRO:HB3	1.98	0.46
52:s6:157:VAL:HG22	52:s6:173:PRO:HD2	1.96	0.46
55:s9:108:ARG:NH1	55:s9:110:GLN:OE1	2.48	0.46
70:d4:60:PHE:CD1	70:d4:71:GLY:HA3	2.51	0.46
74:d8:44:VAL:HG11	74:d8:54:LEU:HD21	1.97	0.46
78:sR:251:TRP:NE1	78:sR:271:VAL:HG21	2.31	0.46
78:sR:299:GLN:O	78:sR:315:VAL:HG23	2.16	0.46
1:1:267:G:OP2	1:1:318:A:N6	2.49	0.46
1:1:307:A:H2'	1:1:308:A:C8	2.51	0.46
1:1:750:G:H2'	1:1:751:A:H8	1.81	0.46
1:1:1097:G:O2'	22:N1:108:ARG:NH2	2.47	0.46
1:1:1471:U:H2'	1:1:1472:U:H6	1.80	0.46
1:1:1922:A:H3'	1:1:1923:C:H6	1.81	0.46
1:1:2376:G:C6	1:1:2377:G:O6	2.68	0.46
1:1:2437:G:H1	1:1:2510:U:H3	1.62	0.46
1:1:2759:U:H6	1:1:2759:U:O5'	1.99	0.46
1:1:3185:U:C5	17:M6:126:VAL:HG21	2.50	0.46
3:4:129:C:H2'	3:4:130:C:H6	1.80	0.46
5:L3:36:ASP:OD1	5:L3:38:SER:OG	2.27	0.46
5:L3:106:TRP:HB2	5:L3:133:TYR:CE2	2.50	0.46
10:L8:206:GLU:H	10:L8:206:GLU:HG3	1.61	0.46
12:M0:9:TYR:HB3	12:M0:97:LEU:HD13	1.98	0.46
22:N1:78:LYS:HB3	22:N1:87:LYS:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:N6:27:ARG:HA	27:N6:30:LEU:HD12	1.97	0.46
31:O0:40:LYS:O	31:O0:65:THR:HG23	2.15	0.46
36:O5:4:VAL:HG11	36:O5:9:LEU:HD11	1.98	0.46
45:2:40:A:H2'	45:2:41:A:O4'	2.15	0.46
45:2:448:C:O3'	50:S4:29:PRO:HA	2.16	0.46
45:2:1124:A:H2'	45:2:1125:A:C8	2.51	0.46
45:2:1274:C:N4	79:SM:96:ARG:H	2.10	0.46
45:2:1340:U:O4	62:C6:9:THR:HA	2.16	0.46
47:S1:180:THR:HG22	47:S1:181:LEU:H	1.81	0.46
51:S5:40:ILE:HG23	51:S5:42:LEU:HG	1.97	0.46
57:C1:97:TYR:CD1	69:D3:15:LEU:HD23	2.51	0.46
69:D3:130:VAL:HG23	69:D3:135:LEU:HD11	1.97	0.46
72:D6:83:ILE:O	72:D6:84:VAL:HG13	2.16	0.46
76:E0:48:THR:OG1	76:E0:49:LEU:N	2.48	0.46
1:5:531:G:N2	1:5:532:A:N3	2.64	0.46
1:5:846:A:N6	45:6:971:A:N1	2.64	0.46
1:5:974:G:H5''	19:m8:14:GLY:O	2.16	0.46
1:5:1131:G:C8	1:5:2825:C:H4'	2.51	0.46
1:5:1270:A:H2'	1:5:1271:A:O4'	2.16	0.46
1:5:1575:A:H3'	1:5:1576:G:C5'	2.44	0.46
1:5:1699:A:H2'	1:5:1700:G:C8	2.51	0.46
1:5:1834:U:OP2	40:o9:10:LYS:NZ	2.34	0.46
1:5:2137:U:C6	1:5:2141:U:C4	3.04	0.46
1:5:2572:C:H2'	1:5:2572:C:P	2.56	0.46
1:5:2778:G:C2	1:5:2779:A:C8	3.04	0.46
2:7:76:A:HO2'	21:n0:50:LYS:HZ1	1.52	0.46
3:8:82:U:H1'	3:8:87:G:H4'	1.98	0.46
5:l3:114:VAL:HG13	5:l3:163:HIS:CG	2.50	0.46
7:l5:99:TYR:CG	7:l5:199:ILE:HG23	2.51	0.46
10:l8:147:LYS:HE2	10:l8:147:LYS:HB3	1.73	0.46
10:l8:159:PRO:O	10:l8:162:LEU:HD12	2.15	0.46
10:l8:221:ASN:O	10:l8:225:LYS:HB2	2.17	0.46
15:m4:36:VAL:HG21	15:m4:47:ASP:HB2	1.97	0.46
16:m5:186:GLY:O	16:m5:190:THR:HG22	2.16	0.46
27:n6:27:ARG:HG2	27:n6:78:PHE:CE1	2.50	0.46
41:q0:92:ASP:O	41:q0:93:LYS:HG2	2.16	0.46
45:6:30:G:H5''	69:d3:131:SER:HB2	1.98	0.46
45:6:61:A:H2	45:6:269:G:N3	2.14	0.46
45:6:221:A:OP2	45:6:832:U:O2'	2.32	0.46
45:6:1021:C:C4	45:6:1022:C:C4	3.03	0.46
45:6:1390:U:C2	63:c7:3:ARG:NH2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:81:ARG:HG2	51:s5:82:PHE:CD2	2.52	0.46
53:s7:152:VAL:O	53:s7:183:PHE:HA	2.15	0.46
68:d2:15:ASN:ND2	68:d2:71:LYS:HG3	2.21	0.46
68:d2:25:VAL:CG1	68:d2:27:ILE:HG13	2.45	0.46
1:1:545:U:H2'	1:1:547:G:C6	2.51	0.45
1:1:679:U:H2'	1:1:680:G:C8	2.51	0.45
1:1:744:A:O2'	19:M8:144:ARG:HG3	2.16	0.45
1:1:758:C:OP1	43:Q2:15:LYS:HE2	2.16	0.45
1:1:936:A:H5''	29:N8:27:LYS:HB2	1.97	0.45
1:1:2328:U:H2'	1:1:2329:C:H6	1.81	0.45
1:1:2405:C:O2	1:1:2819:A:N1	2.49	0.45
1:1:2897:A:H2'	1:1:2899:C:H5''	1.97	0.45
3:4:144:G:P	16:M5:57:GLN:HE21	2.38	0.45
5:L3:287:LYS:NZ	5:L3:289:ASP:OD1	2.42	0.45
6:L4:74:ILE:N	6:L4:74:ILE:HD13	2.31	0.45
10:L8:33:ASN:O	10:L8:39:ALA:HB3	2.17	0.45
12:M0:170:LYS:HA	12:M0:177:ASP:HA	1.97	0.45
30:N9:39:PHE:C	30:N9:39:PHE:CD2	2.93	0.45
44:Q3:56:THR:HG22	44:Q3:63:THR:HG23	1.97	0.45
45:2:149:C:H42	45:2:165:G:H1	1.64	0.45
45:2:971:A:C8	45:2:972:G:C8	3.04	0.45
47:S1:181:LEU:HD23	47:S1:182:ALA:H	1.81	0.45
47:S1:196:GLU:O	47:S1:199:ASN:HB2	2.17	0.45
48:S2:54:GLU:HG2	67:D1:11:LEU:HB2	1.98	0.45
50:S4:45:ILE:O	50:S4:49:ARG:HB3	2.16	0.45
51:S5:21:THR:C	51:S5:22:PRO:CA	2.81	0.45
51:S5:45:LYS:HA	51:S5:45:LYS:HD3	1.66	0.45
55:S9:149:ARG:O	55:S9:150:LEU:HB2	2.16	0.45
55:S9:151:ASP:HA	55:S9:154:LYS:HE3	1.98	0.45
61:C5:119:PHE:HA	79:SM:57:ASN:ND2	2.30	0.45
63:C7:23:LYS:HB3	63:C7:34:LEU:HD11	1.98	0.45
65:C9:6:VAL:HG22	65:C9:66:TYR:CE1	2.51	0.45
65:C9:42:GLY:HA3	65:C9:94:ILE:HG21	1.98	0.45
65:C9:57:ARG:HG2	65:C9:104:VAL:HG21	1.97	0.45
67:D1:11:LEU:HD12	67:D1:12:TYR:HB3	1.96	0.45
67:D1:17:CYS:HB2	67:D1:56:SER:HB3	1.98	0.45
72:D6:10:ARG:HB2	72:D6:34:LYS:HA	1.98	0.45
74:D8:32:PHE:CE2	74:D8:38:ARG:HB3	2.51	0.45
1:5:188:U:H1'	1:5:208:C:H1'	1.98	0.45
1:5:692:A:C4	1:5:693:A:C8	3.04	0.45
1:5:1070:U:C4	1:5:1071:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:2211:U:H5	1:5:2234:G:N1	2.14	0.45
1:5:2359:C:O5'	1:5:2359:C:H6	1.98	0.45
1:5:2401:A:O3'	6:l4:68:GLY:HA2	2.16	0.45
1:5:2922:G:OP1	85:5:4175:LLL:O52	2.30	0.45
1:5:3291:G:H2'	1:5:3292:A:H8	1.79	0.45
1:5:3366:G:H2'	1:5:3367:C:C6	2.51	0.45
1:5:3383:G:H21	32:o1:105:GLN:NE2	2.14	0.45
10:l8:55:TYR:CE2	10:l8:56:VAL:HG23	2.51	0.45
22:n1:79:MET:HB2	22:n1:84:TYR:CE2	2.51	0.45
23:n2:75:TYR:O	23:n2:79:LEU:HD12	2.15	0.45
35:o4:10:ARG:HD2	40:o9:4:GLN:CD	2.42	0.45
42:q1:1:MET:HE2	42:q1:5:TRP:HB2	1.98	0.45
44:q3:20:SER:O	44:q3:24:ARG:HB2	2.16	0.45
45:6:330:G:O2'	54:s8:33:PRO:HB3	2.16	0.45
45:6:1068:C:H2'	45:6:1069:A:H8	1.81	0.45
49:s3:71:LEU:HD22	49:s3:75:LYS:HE2	1.98	0.45
51:s5:43:PHE:CD1	51:s5:43:PHE:C	2.94	0.45
52:s6:7:TYR:CE1	52:s6:125:THR:HA	2.51	0.45
54:s8:44:HIS:O	54:s8:56:ARG:N	2.42	0.45
55:s9:25:ASP:HB3	76:e0:44:PHE:HE2	1.81	0.45
60:c4:128:LYS:O	72:d6:22:ARG:NH2	2.36	0.45
65:c9:143:ASP:OD1	65:c9:143:ASP:N	2.47	0.45
73:d7:62:ILE:HG23	73:d7:63:LEU:N	2.30	0.45
1:1:499:G:H2'	1:1:500:C:H6	1.81	0.45
1:1:603:A:H2'	1:1:604:G:O4'	2.17	0.45
1:1:934:G:C6	1:1:935:U:C4	3.05	0.45
1:1:978:G:O2'	1:1:979:U:O2	2.31	0.45
1:1:1702:U:H2'	1:1:1703:U:H6	1.81	0.45
1:1:2359:C:H2'	1:1:2360:C:C6	2.51	0.45
1:1:2869:U:O2'	1:1:2873:U:OP1	2.32	0.45
1:1:3201:C:H2'	1:1:3202:G:C8	2.52	0.45
6:L4:38:VAL:O	6:L4:42:VAL:HG23	2.16	0.45
7:L5:32:GLN:NE2	87:L5:401:HOH:O	2.48	0.45
8:L6:76:LEU:N	8:L6:138:GLN:OE1	2.47	0.45
11:L9:10:ILE:HD13	11:L9:75:VAL:HG11	1.97	0.45
13:M1:92:ARG:HH11	13:M1:94:ARG:NH1	2.13	0.45
14:M3:27:ASP:HB2	14:M3:31:LYS:HG3	1.97	0.45
14:M3:188:ARG:NH2	14:M3:189:GLU:HG3	2.31	0.45
14:M3:190:LYS:HB2	14:M3:190:LYS:HE2	1.66	0.45
18:M7:51:VAL:HA	18:M7:56:ARG:O	2.16	0.45
20:M9:95:TRP:NE1	20:M9:99:LEU:HD12	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:N7:23:VAL:HG12	28:N7:45:GLY:CA	2.45	0.45
45:2:540:G:H4'	45:2:541:A:OP1	2.04	0.45
45:2:854:U:O4	45:2:855:A:N6	2.50	0.45
45:2:864:U:H3'	68:D2:28:ARG:HH22	1.81	0.45
45:2:1216:C:H4'	45:2:1217:A:H8	1.81	0.45
45:2:1471:A:C6	45:2:1472:C:H5	2.34	0.45
47:S1:116:LYS:HE2	47:S1:117:TRP:CZ3	2.51	0.45
48:S2:237:VAL:HG12	48:S2:238:SER:H	1.81	0.45
49:S3:115:ILE:HG21	79:SM:110:TRP:HA	1.98	0.45
50:S4:95:THR:OG1	50:S4:97:GLU:HG3	2.17	0.45
51:S5:56:ALA:O	51:S5:58:LEU:HD23	2.16	0.45
51:S5:166:ARG:HD2	74:D8:46:GLY:CA	2.46	0.45
53:S7:173:TYR:CE2	53:S7:177:THR:HG21	2.52	0.45
54:S8:104:ILE:HG13	54:S8:105:ASP:H	1.81	0.45
56:C0:76:LEU:HD13	56:C0:76:LEU:H	1.81	0.45
58:C2:105:LYS:H	58:C2:113:ARG:CB	2.29	0.45
79:SM:85:SER:C	79:SM:87:THR:H	2.24	0.45
79:SM:85:SER:O	79:SM:87:THR:N	2.50	0.45
1:5:2554:A:N6	44:q3:62:LYS:HD3	2.31	0.45
1:5:2667:A:N6	1:5:2687:G:H1'	2.31	0.45
4:l2:132:ASN:HD22	4:l2:132:ASN:HA	1.60	0.45
4:l2:204:MET:HB3	4:l2:208:ASP:HB2	1.98	0.45
5:l3:51:ALA:HB2	5:l3:317:ILE:HD11	1.98	0.45
6:l4:64:SER:OG	6:l4:73:ARG:O	2.23	0.45
6:l4:318:LEU:HD23	6:l4:318:LEU:HA	1.67	0.45
10:l8:133:LYS:HB2	10:l8:199:ALA:O	2.17	0.45
13:m1:132:ASN:HA	13:m1:154:THR:HG21	1.97	0.45
26:n5:64:GLU:O	26:n5:65:GLN:HB2	2.14	0.45
39:o8:62:ALA:O	39:o8:66:ILE:HG13	2.16	0.45
45:6:54:C:O2'	45:6:459:G:N7	2.38	0.45
45:6:592:A:H2'	45:6:593:U:O4'	2.16	0.45
45:6:679:U:O2'	45:6:680:U:O4'	2.33	0.45
45:6:754:A:C6	45:6:793:A:N7	2.83	0.45
45:6:864:U:H3'	68:d2:28:ARG:NH2	2.31	0.45
45:6:970:A:H2'	45:6:971:A:H5'	1.98	0.45
45:6:975:C:H5''	59:c3:109:LYS:HD2	1.98	0.45
45:6:1091:A:H4'	45:6:1092:A:O5'	2.16	0.45
45:6:1403:C:H2'	45:6:1404:C:H6	1.81	0.45
45:6:1413:U:O5'	63:c7:3:ARG:NH1	2.47	0.45
45:6:1649:G:H2'	45:6:1650:U:C6	2.50	0.45
47:s1:103:MET:HG2	47:s1:104:ASP:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:40:ILE:HG23	51:s5:42:LEU:HD13	1.98	0.45
57:c1:37:ASN:HA	57:c1:44:THR:HG21	1.97	0.45
59:c3:25:TRP:CH2	73:d7:45:THR:HG21	2.51	0.45
61:c5:10:ARG:HB3	61:c5:11:VAL:HG13	1.97	0.45
69:d3:61:SER:HB3	69:d3:69:ARG:HH11	1.82	0.45
74:d8:39:THR:O	74:d8:40:ILE:HD12	2.16	0.45
78:sR:38:ARG:NE	78:sR:67:ILE:HD13	2.31	0.45
78:sR:258:THR:HB	78:sR:275:ARG:NH1	2.30	0.45
1:1:976:U:H2'	1:1:977:C:O4'	2.16	0.45
1:1:1191:U:C2	17:M6:48:PHE:CE1	3.05	0.45
1:1:1416:C:H5''	87:1:4237:HOH:O	2.15	0.45
1:1:2116:G:H5'	1:1:2116:G:N3	2.30	0.45
1:1:2223:A:N1	1:1:2783:U:H1'	2.31	0.45
1:1:2707:C:H2'	1:1:2708:C:H6	1.81	0.45
1:1:3046:A:H2'	1:1:3047:U:O4'	2.16	0.45
1:1:3269:U:H5'	1:1:3269:U:O2	2.16	0.45
1:1:3335:A:H5''	1:1:3370:A:H2	1.81	0.45
2:3:62:U:OP1	7:L5:277:LEU:HB2	2.16	0.45
5:L3:292:ALA:HA	5:L3:303:LYS:O	2.17	0.45
6:L4:188:ARG:NH2	6:L4:197:ARG:HB3	2.31	0.45
8:L6:174:LEU:HA	8:L6:174:LEU:HD23	1.74	0.45
28:N7:34:LYS:HG3	28:N7:35:SER:N	2.31	0.45
28:N7:89:VAL:HG23	28:N7:92:PHE:CD2	2.52	0.45
28:N7:136:PHE:CE1	35:O4:89:ILE:HG12	2.51	0.45
29:N8:74:ASN:HB2	29:N8:76:ASP:H	1.80	0.45
39:O8:13:GLU:H	39:O8:13:GLU:HG3	1.51	0.45
45:2:778:G:H5'	45:2:780:A:N1	2.31	0.45
45:2:846:G:N3	45:2:846:G:H5''	2.31	0.45
45:2:1553:G:H1	61:C5:40:ARG:HH21	1.65	0.45
45:2:1654:G:C6	45:2:1745:G:C6	3.04	0.45
47:S1:229:MET:HA	47:S1:232:HIS:ND1	2.31	0.45
53:S7:47:ARG:O	53:S7:58:LEU:HD23	2.16	0.45
54:S8:36:THR:HG21	54:S8:173:PRO:HB2	1.99	0.45
57:C1:58:CYS:O	57:C1:62:GLY:N	2.46	0.45
57:C1:109:VAL:HG23	57:C1:137:PHE:C	2.41	0.45
63:C7:99:VAL:HG22	63:C7:118:PRO:HB2	1.98	0.45
64:C8:6:GLN:OE1	71:D5:42:LEU:HD13	2.17	0.45
65:C9:38:LYS:O	65:C9:39:THR:OG1	2.34	0.45
69:D3:3:LYS:HA	69:D3:3:LYS:HD3	1.50	0.45
69:D3:87:VAL:HG12	69:D3:92:CYS:HB3	1.97	0.45
73:D7:63:LEU:HD13	73:D7:64:CYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:SR:22:SER:OG	78:SR:70:ASP:OD1	2.32	0.45
78:SR:108:SER:OG	78:SR:109:ASP:N	2.48	0.45
1:5:76:G:H3'	14:m3:73:ARG:HD2	1.99	0.45
1:5:602:A:H2'	1:5:603:A:C8	2.52	0.45
1:5:712:G:H2'	1:5:713:U:H6	1.82	0.45
1:5:852:U:H2'	1:5:853:G:H8	1.81	0.45
1:5:1080:A:OP2	7:15:140:ARG:NH2	2.48	0.45
1:5:1239:C:H3'	1:5:1240:A:H8	1.81	0.45
1:5:1846:C:H6	1:5:1846:C:H5''	1.82	0.45
1:5:1879:A:H2'	1:5:1879:A:N3	2.31	0.45
1:5:2341:A:O3'	1:5:3090:U:H4'	2.17	0.45
1:5:3024:A:H4'	11:l9:97:PHE:CE2	2.51	0.45
1:5:3334:U:O2'	1:5:3368:U:O2	2.29	0.45
6:l4:267:VAL:HG22	6:l4:268:ALA:O	2.16	0.45
6:l4:290:ILE:HD12	19:m8:35:PHE:CD2	2.52	0.45
6:l4:299:ILE:HG22	6:l4:300:ARG:O	2.15	0.45
8:l6:55:LEU:CD1	8:l6:66:SER:HB2	2.45	0.45
9:l7:47:ARG:O	9:l7:50:ALA:N	2.49	0.45
12:m0:175:ASN:O	12:m0:176:LEU:HD12	2.16	0.45
29:n8:7:LYS:O	29:n8:10:LYS:N	2.47	0.45
29:n8:47:LYS:HE3	29:n8:48:TYR:CZ	2.51	0.45
30:n9:59:LYS:HE3	30:n9:59:LYS:HB2	1.62	0.45
45:6:140:A:OP2	45:6:140:A:H4'	2.16	0.45
45:6:152:U:C2	45:6:163:G:N2	2.84	0.45
45:6:209:U:H2'	45:6:210:A:C8	2.52	0.45
45:6:359:A:H1'	69:d3:38:PHE:CZ	2.51	0.45
45:6:1230:A:H8	45:6:1258:U:C4	2.34	0.45
45:6:1338:C:N4	45:6:1339:C:H41	2.15	0.45
45:6:1738:U:H2'	45:6:1739:C:C6	2.52	0.45
47:s1:43:VAL:CG1	47:s1:68:VAL:HG21	2.47	0.45
49:s3:168:ILE:HD11	49:s3:187:LYS:HE2	1.99	0.45
52:s6:102:VAL:HG13	52:s6:106:LEU:HD12	1.97	0.45
53:s7:61:PHE:O	53:s7:62:VAL:HG23	2.16	0.45
53:s7:158:ASP:HB3	53:s7:161:GLN:HE21	1.82	0.45
55:s9:161:THR:O	55:s9:162:SER:OG	2.28	0.45
60:c4:18:ARG:HA	60:c4:82:LYS:O	2.16	0.45
66:d0:44:ASN:OD1	66:d0:103:ILE:HD11	2.17	0.45
72:d6:64:LEU:HA	72:d6:64:LEU:HD23	1.68	0.45
1:1:889:U:H2'	1:1:890:C:O4'	2.17	0.45
1:1:945:C:H2'	1:1:946:U:C6	2.51	0.45
1:1:1104:G:H8	1:1:1104:G:O5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1116:G:N2	1:1:2817:A:O4'	2.49	0.45
1:1:1431:G:OP2	29:N8:12:ARG:NH1	2.49	0.45
1:1:1470:U:H2'	1:1:1471:U:H6	1.81	0.45
1:1:2115:G:H22	1:1:2120:A:H1'	1.80	0.45
1:1:2218:G:H2'	1:1:2219:A:C8	2.52	0.45
1:1:2673:A:C5'	13:M1:95:ASN:HA	2.46	0.45
1:1:2689:A:C8	1:1:2702:A:C6	3.04	0.45
1:1:2800:G:H5''	1:1:2801:A:OP1	2.16	0.45
1:1:3296:A:H2'	1:1:3297:U:C6	2.51	0.45
2:3:22:A:C4	2:3:23:A:C8	3.05	0.45
3:4:85:G:C8	3:4:85:G:H3'	2.51	0.45
7:L5:178:ASN:N	7:L5:178:ASN:OD1	2.49	0.45
10:L8:121:SER:OG	10:L8:125:ALA:HB2	2.16	0.45
14:M3:119:TYR:HD1	14:M3:145:PHE:HE2	1.64	0.45
16:M5:124:ASP:OD2	16:M5:125:SER:N	2.31	0.45
19:M8:177:GLY:O	19:M8:186:VAL:N	2.39	0.45
24:N3:66:LYS:HB3	24:N3:68:GLU:OE1	2.16	0.45
25:N4:54:LEU:HD12	25:N4:54:LEU:HA	1.72	0.45
45:2:358:U:O2'	45:2:360:A:H5''	2.16	0.45
45:2:912:U:H4'	45:2:913:G:O5'	2.17	0.45
47:S1:47:LEU:HD23	47:S1:47:LEU:HA	1.73	0.45
47:S1:115:ARG:H	47:S1:118:GLN:NE2	2.15	0.45
48:S2:87:GLN:HA	48:S2:95:ARG:O	2.16	0.45
55:S9:88:GLU:HA	55:S9:91:LYS:CE	2.46	0.45
56:C0:46:LEU:HD12	56:C0:66:TYR:CD1	2.52	0.45
56:C0:46:LEU:HD22	56:C0:46:LEU:HA	1.77	0.45
61:C5:16:SER:HA	61:C5:20:VAL:O	2.16	0.45
61:C5:29:SER:OG	61:C5:31:GLU:HG2	2.17	0.45
64:C8:86:LEU:HD12	64:C8:99:HIS:CG	2.52	0.45
71:D5:91:PRO:HB3	71:D5:101:TYR:HE1	1.81	0.45
1:5:147:U:O4	10:l8:183:LYS:HE2	2.17	0.45
1:5:386:A:H2'	1:5:387:A:O4'	2.15	0.45
1:5:847:A:C6	1:5:848:A:C6	3.04	0.45
1:5:903:U:H2'	1:5:904:A:H8	1.82	0.45
1:5:1056:U:H2'	1:5:1057:A:O4'	2.16	0.45
1:5:1639:C:OP1	35:o4:52:GLN:HB3	2.17	0.45
1:5:2106:A:H2'	1:5:2107:A:C8	2.52	0.45
1:5:2658:G:C6	1:5:2659:G:N7	2.85	0.45
1:5:3208:G:H5''	1:5:3210:A:O4'	2.16	0.45
2:7:15:C:C2	2:7:66:A:C2	3.04	0.45
4:l2:30:ARG:NH2	4:l2:33:ASP:OD2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:56:ILE:HG12	5:l3:356:LEU:HD22	1.97	0.45
6:l4:346:LYS:HA	6:l4:346:LYS:HD2	1.66	0.45
13:m1:166:LYS:C	13:m1:168:ASP:H	2.24	0.45
14:m3:54:LEU:HD22	14:m3:54:LEU:HA	1.66	0.45
15:m4:50:LYS:NZ	15:m4:91:CYS:HB2	2.32	0.45
18:m7:102:ALA:HA	18:m7:107:LEU:HD23	1.97	0.45
26:n5:100:LYS:HA	26:n5:105:VAL:O	2.15	0.45
82:p0:20:GLU:HG2	82:p0:70:LEU:HD21	1.98	0.45
43:q2:53:GLN:HE21	43:q2:55:LYS:H	1.64	0.45
45:6:163:G:H8	45:6:163:G:O5'	1.99	0.45
45:6:269:G:C5	45:6:287:G:C2	3.05	0.45
45:6:532:U:H2'	45:6:533:U:O4'	2.17	0.45
45:6:629:U:C4	45:6:630:A:N7	2.85	0.45
45:6:792:U:C2	45:6:793:A:H2	2.35	0.45
45:6:1000:C:N4	45:6:1003:A:OP2	2.40	0.45
45:6:1172:G:H21	65:c9:88:VAL:CG2	2.30	0.45
45:6:1217:A:H2	56:c0:27:PHE:CB	2.29	0.45
45:6:1558:U:C5	64:c8:122:HIS:CG	3.05	0.45
45:6:1610:G:H4'	51:s5:98:MET:HE1	1.99	0.45
45:6:1619:C:C2	74:d8:22:ARG:HD2	2.52	0.45
46:s0:41:ARG:HH11	46:s0:45:VAL:HG21	1.80	0.45
46:s0:59:LEU:O	46:s0:63:ILE:HG13	2.16	0.45
54:s8:38:ILE:HA	54:s8:60:ILE:O	2.16	0.45
56:c0:29:GLN:HB3	56:c0:39:ASN:HB2	1.98	0.45
57:c1:121:ASP:O	57:c1:123:VAL:HG23	2.16	0.45
59:c3:128:TYR:O	59:c3:131:THR:HG22	2.16	0.45
60:c4:61:MET:O	60:c4:65:GLN:HG3	2.16	0.45
62:c6:110:THR:HA	62:c6:113:ASP:CB	2.46	0.45
62:c6:113:ASP:CG	62:c6:115:THR:H	2.25	0.45
66:d0:39:SER:O	66:d0:42:VAL:HG12	2.16	0.45
68:d2:5:SER:C	68:d2:7:LEU:H	2.24	0.45
69:d3:109:ARG:HB3	69:d3:112:LYS:HB2	1.98	0.45
1:1:8:C:H2'	1:1:9:U:O4'	2.17	0.45
1:1:74:G:OP1	14:M3:104:ARG:HB2	2.16	0.45
1:1:721:G:C2	1:1:722:G:C8	3.05	0.45
1:1:916:G:OP1	1:1:2957:G:H5''	2.16	0.45
1:1:964:G:O2'	29:N8:41:HIS:NE2	2.45	0.45
1:1:1011:A:H2'	1:1:1012:G:O4'	2.17	0.45
1:1:1305:U:C2	5:L3:257:PRO:HG3	2.51	0.45
1:1:1472:U:H2'	1:1:1473:G:H8	1.81	0.45
1:1:2415:C:OP1	4:L2:2:GLY:HA3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2536:A:H2'	1:1:2537:U:C6	2.51	0.45
1:1:2585:G:H1'	10:L8:48:ARG:HG3	1.97	0.45
1:1:2728:G:O6	22:N1:78:LYS:NZ	2.45	0.45
1:1:2896:A:P	41:Q0:102:ARG:HH21	2.40	0.45
1:1:3018:C:H2'	1:1:3019:U:O4'	2.17	0.45
2:3:31:U:O2'	2:3:32:U:H5'	2.17	0.45
6:L4:299:ILE:HG22	6:L4:300:ARG:O	2.16	0.45
7:L5:221:GLU:HB3	7:L5:222:LEU:HD23	1.98	0.45
13:M1:65:ILE:HG22	13:M1:66:ALA:N	2.31	0.45
14:M3:76:THR:HG21	14:M3:103:ASN:OD1	2.17	0.45
17:M6:35:VAL:HG21	17:M6:80:PHE:HE2	1.81	0.45
20:M9:168:ALA:HB1	20:M9:172:ARG:CZ	2.47	0.45
23:N2:13:LYS:O	23:N2:66:VAL:HA	2.16	0.45
24:N3:130:ALA:O	24:N3:133:SER:HB2	2.17	0.45
38:O7:2:GLY:O	38:O7:7:SER:HB3	2.17	0.45
45:2:444:C:OP2	70:D4:108:ARG:NH2	2.48	0.45
45:2:512:A:OP2	55:S9:172:VAL:HB	2.17	0.45
45:2:967:A:OP1	59:C3:4:MET:HB3	2.17	0.45
45:2:1196:A:C8	45:2:1602:C:H4'	2.52	0.45
46:S0:84:ARG:HG3	46:S0:205:ARG:NH1	2.31	0.45
47:S1:126:THR:HG23	47:S1:136:ARG:HE	1.81	0.45
48:S2:152:HIS:CG	48:S2:153:SER:N	2.85	0.45
49:S3:177:MET:HG3	49:S3:182:LEU:CD1	2.46	0.45
51:S5:187:ILE:H	51:S5:187:ILE:HG13	1.59	0.45
58:C2:62:LEU:HD23	58:C2:62:LEU:H	1.81	0.45
64:C8:123:ARG:HG3	64:C8:133:VAL:HB	1.97	0.45
65:C9:126:GLU:OE1	65:C9:126:GLU:N	2.50	0.45
67:D1:56:SER:OG	67:D1:59:VAL:HG23	2.17	0.45
74:D8:36:THR:O	74:D8:37:SER:OG	2.29	0.45
1:5:179:C:H2'	1:5:180:C:H6	1.80	0.45
1:5:369:A:N7	85:5:4154:LLL:O43	2.40	0.45
1:5:1528:G:H1	1:5:1832:C:N4	2.14	0.45
1:5:1677:G:O2'	1:5:1756:C:O2'	2.31	0.45
1:5:1821:U:H4'	1:5:1822:C:OP2	2.16	0.45
1:5:1824:U:H4'	39:o8:17:ARG:HH22	1.80	0.45
1:5:2255:A:OP2	1:5:2261:G:N1	2.35	0.45
1:5:2796:G:H2'	43:q2:62:ALA:CB	2.47	0.45
1:5:3382:U:O2'	1:5:3383:G:O5'	2.25	0.45
2:7:39:C:H5'	79:sM:25:ILE:HG12	1.99	0.45
2:7:75:G:H8	2:7:75:G:O5'	1.99	0.45
3:8:146:U:H2'	3:8:147:U:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l2:3:ARG:HG2	4:l2:4:VAL:N	2.31	0.45
8:l6:7:PRO:HD2	8:l6:10:TYR:CZ	2.51	0.45
12:m0:142:ASP:OD1	12:m0:142:ASP:N	2.42	0.45
13:m1:109:HIS:N	13:m1:123:PHE:O	2.44	0.45
17:m6:27:LEU:HB3	17:m6:98:ALA:O	2.17	0.45
17:m6:58:LEU:HA	17:m6:72:HIS:CD2	2.51	0.45
26:n5:50:ALA:HB2	36:o5:79:ASP:HB3	1.99	0.45
27:n6:125:LYS:HD3	27:n6:125:LYS:HA	1.78	0.45
29:n8:25:HIS:C	29:n8:25:HIS:CD2	2.94	0.45
34:o3:71:VAL:HG13	34:o3:81:VAL:CG1	2.47	0.45
38:o7:27:PHE:HA	38:o7:34:CYS:HA	1.98	0.45
45:6:544:A:OP2	45:6:544:A:H8	2.00	0.45
45:6:1061:A:H3'	45:6:1062:A:C2	2.52	0.45
45:6:1252:C:O4'	77:e1:133:ALA:HB2	2.15	0.45
45:6:1491:U:H1'	45:6:1492:A:C5'	2.46	0.45
46:s0:185:ARG:HB3	46:s0:186:GLY:H	1.50	0.45
47:s1:144:ARG:HG3	47:s1:206:PRO:HB2	1.99	0.45
52:s6:64:LYS:NZ	52:s6:82:SER:O	2.50	0.45
64:c8:27:LYS:O	64:c8:31:ALA:N	2.49	0.45
69:d3:127:VAL:HG23	69:d3:132:LEU:HG	1.99	0.45
73:d7:47:PHE:CZ	73:d7:49:HIS:HB2	2.51	0.45
1:1:266:A:N6	37:O6:30:LYS:HA	2.32	0.45
1:1:283:G:OP2	1:1:285:A:O2'	2.24	0.45
1:1:701:G:O2'	85:1:3992:LLL:H611	2.17	0.45
1:1:828:A:H2'	1:1:829:U:C6	2.52	0.45
1:1:1278:A:O2'	1:1:1279:C:H6	2.00	0.45
1:1:1448:U:H5''	18:M7:66:SER:HB2	1.97	0.45
1:1:1821:U:C2	35:O4:67:LYS:HB2	2.50	0.45
1:1:2352:A:OP1	18:M7:82:ARG:HB3	2.16	0.45
1:1:2403:G:C2	1:1:2405:C:C4	3.05	0.45
1:1:3380:U:H2'	1:1:3381:U:C6	2.52	0.45
5:L3:14:LEU:HD13	5:L3:262:TRP:CH2	2.52	0.45
5:L3:53:MET:HE1	5:L3:327:CYS:CB	2.47	0.45
5:L3:122:TRP:CE2	5:L3:127:LYS:HE3	2.51	0.45
10:L8:26:LEU:HD13	28:N7:53:VAL:HG21	1.97	0.45
12:M0:32:ARG:HD2	12:M0:32:ARG:HA	1.51	0.45
13:M1:89:TYR:O	13:M1:169:ALA:HB1	2.17	0.45
16:M5:75:VAL:CG1	16:M5:76:PRO:HD2	2.45	0.45
18:M7:172:GLN:NE2	34:O3:60:ARG:O	2.50	0.45
28:N7:23:VAL:HB	28:N7:43:VAL:HB	1.99	0.45
31:O0:104:LEU:HD12	31:O0:105:ALA:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:O3:16:TYR:OH	34:O3:89:LEU:O	2.31	0.45
36:O5:84:LYS:O	38:O7:73:ARG:NH2	2.50	0.45
42:Q1:7:LYS:HE2	42:Q1:11:ARG:NH1	2.32	0.45
45:2:1276:U:H4'	49:S3:147:ALA:HB2	1.99	0.45
45:2:1460:A:H5'	45:2:1461:C:OP2	2.17	0.45
45:2:1637:C:C2	79:SM:93:ARG:HG3	2.52	0.45
47:S1:128:LYS:NZ	47:S1:132:ASP:HB3	2.31	0.45
50:S4:94:ALA:C	50:S4:96:ASN:H	2.25	0.45
50:S4:95:THR:HG22	70:D4:16:PRO:HG2	1.97	0.45
55:S9:49:LEU:HG	55:S9:104:PHE:CE2	2.51	0.45
58:C2:35:ALA:HB2	58:C2:126:TRP:HA	1.99	0.45
63:C7:24:LEU:HD22	63:C7:34:LEU:HD13	1.98	0.45
65:C9:65:ILE:HD11	65:C9:105:LEU:HD21	1.97	0.45
66:D0:23:ARG:HD3	66:D0:92:ASP:OD1	2.17	0.45
1:5:656:A:H2'	1:5:657:A:C8	2.52	0.45
1:5:665:A:H1'	14:m3:14:PHE:CZ	2.51	0.45
1:5:916:G:H4'	1:5:917:A:O5'	2.17	0.45
1:5:1232:C:C5	1:5:1261:G:H2'	2.52	0.45
1:5:1354:G:H2'	1:5:1357:G:H4'	1.98	0.45
1:5:1471:U:H2'	1:5:1472:U:C6	2.52	0.45
1:5:1716:U:H3'	1:5:1716:U:P	2.56	0.45
1:5:1913:A:N3	1:5:2120:A:H2'	2.31	0.45
3:8:64:U:O2'	36:o5:56:THR:OG1	2.16	0.45
4:l2:32:LEU:HD23	4:l2:163:ARG:CZ	2.46	0.45
7:l5:202:GLY:O	7:l5:206:GLN:HG3	2.17	0.45
8:l6:91:VAL:HG12	8:l6:155:LEU:HD11	1.99	0.45
9:l7:116:PHE:HB2	9:l7:199:ASN:OD1	2.17	0.45
10:l8:163:VAL:O	10:l8:165:PHE:N	2.49	0.45
11:l9:7:GLU:HB3	11:l9:56:ALA:HB2	1.98	0.45
80:m2:30:UNK:O	80:m2:34:UNK:N	2.50	0.45
15:m4:14:LEU:HA	15:m4:14:LEU:HD23	1.71	0.45
16:m5:49:ARG:NH2	16:m5:49:ARG:HG2	2.32	0.45
17:m6:116:LYS:HG3	17:m6:117:ARG:N	2.30	0.45
28:n7:13:VAL:O	28:n7:20:GLY:N	2.33	0.45
32:o1:83:GLU:HG2	32:o1:84:ASP:OD1	2.15	0.45
33:o2:24:ARG:HD3	33:o2:25:TYR:CZ	2.52	0.45
39:o8:14:LEU:HD23	39:o8:17:ARG:CD	2.47	0.45
45:6:57:G:H2'	45:6:58:U:O4'	2.16	0.45
45:6:332:U:P	54:s8:56:ARG:HH22	2.40	0.45
45:6:1304:G:H5'	45:6:1322:A:OP2	2.17	0.45
45:6:1504:G:C6	45:6:1505:A:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:6:2167:LLL:H531	47:s1:162:ARG:NH1	2.32	0.45
46:s0:10:THR:HG21	46:s0:191:ARG:HH22	1.80	0.45
46:s0:23:HIS:CE1	46:s0:24:LEU:HD13	2.52	0.45
46:s0:41:ARG:NH1	46:s0:45:VAL:HG21	2.31	0.45
46:s0:202:TYR:O	46:s0:203:PHE:HD2	1.99	0.45
47:s1:108:ASP:OD2	47:s1:109:LYS:N	2.49	0.45
50:s4:137:PRO:HG2	50:s4:150:PRO:HD2	1.98	0.45
51:s5:124:LEU:HD11	71:d5:59:TYR:HB2	1.98	0.45
55:s9:168:ARG:HH21	55:s9:174:ARG:HD2	1.82	0.45
60:c4:29:HIS:CD2	60:c4:41:ARG:HB2	2.51	0.45
63:c7:27:ASP:CG	78:sR:38:ARG:HH12	2.25	0.45
63:c7:33:ARG:HD2	78:sR:109:ASP:OD2	2.16	0.45
76:e0:39:LEU:HD12	76:e0:39:LEU:HA	1.83	0.45
1:1:255:A:C2	1:1:256:G:C5	3.05	0.45
1:1:517:G:P	9:L7:60:ARG:HH22	2.39	0.45
1:1:720:A:H2'	1:1:720:A:N3	2.31	0.45
1:1:1391:C:C2	33:O2:103:LYS:HD3	2.51	0.45
1:1:1844:C:O2	38:O7:9:GLY:HA2	2.17	0.45
1:1:2522:G:H4'	1:1:2523:A:OP2	2.16	0.45
1:1:2573:G:OP1	28:N7:61:LYS:HG3	2.16	0.45
1:1:2733:A:H2'	1:1:2734:A:H8	1.82	0.45
1:1:2887:A:H2'	1:1:2887:A:N3	2.32	0.45
1:1:3121:U:H4'	1:1:3122:A:OP1	2.16	0.45
1:1:3194:C:O2'	1:1:3195:U:O2	2.22	0.45
5:L3:19:ARG:HB3	5:L3:232:ARG:NH1	2.31	0.45
6:L4:93:MET:CE	6:L4:93:MET:H	2.29	0.45
8:L6:5:LYS:HB2	8:L6:5:LYS:HE2	1.83	0.45
11:L9:117:PHE:HE1	11:L9:178:GLY:HA2	1.81	0.45
28:N7:14:VAL:HG21	35:O4:90:ILE:HD11	1.97	0.45
32:O1:72:ARG:HG3	32:O1:96:VAL:HG22	1.97	0.45
33:O2:22:SER:HA	33:O2:28:VAL:HB	1.98	0.45
43:Q2:57:VAL:O	43:Q2:59:HIS:ND1	2.49	0.45
45:2:77:U:O5'	45:2:77:U:H6	2.00	0.45
45:2:247:A:H1'	57:C1:38:ALA:O	2.17	0.45
45:2:647:G:H22	45:2:687:G:H1	1.64	0.45
45:2:864:U:OP2	73:D7:26:GLN:NE2	2.50	0.45
45:2:1103:U:C4	69:D3:4:GLY:HA2	2.52	0.45
45:2:1385:G:H2'	45:2:1386:G:H8	1.80	0.45
45:2:1490:C:OP1	45:2:1492:A:H1'	2.17	0.45
47:S1:23:PRO:HB3	47:S1:26:ARG:HH22	1.80	0.45
47:S1:61:LEU:HG	47:S1:64:ARG:HE	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:C0:43:ILE:HG23	56:C0:66:TYR:OH	2.16	0.45
56:C0:59:PHE:CE1	56:C0:62:GLN:HA	2.51	0.45
63:C7:38:ILE:HG23	63:C7:39:ALA:H	1.82	0.45
64:C8:102:ALA:O	64:C8:105:VAL:HG12	2.16	0.45
68:D2:53:ILE:HG12	68:D2:60:LYS:HB2	1.98	0.45
78:SR:27:ALA:HB3	78:SR:75:ALA:HB1	1.97	0.45
78:SR:76:ASP:OD1	78:SR:76:ASP:N	2.35	0.45
78:SR:89:LEU:O	78:SR:103:PHE:HD2	2.00	0.45
1:5:72:C:OP2	37:o6:13:LYS:HE3	2.16	0.45
1:5:255:A:H2'	1:5:256:G:H8	1.81	0.45
1:5:284:A:H5'	1:5:285:A:O4'	2.16	0.45
1:5:1819:U:H2'	1:5:1820:U:C5'	2.47	0.45
1:5:1946:A:H2'	1:5:1947:G:O4'	2.17	0.45
1:5:2417:U:H5''	4:l2:221:LYS:HE3	1.98	0.45
1:5:2560:C:O2	1:5:2560:C:H2'	2.17	0.45
1:5:2992:U:H2'	1:5:2993:G:O4'	2.17	0.45
1:5:3049:A:OP2	87:5:4278:HOH:O	2.21	0.45
1:5:3378:C:O2'	5:l3:312:VAL:HA	2.16	0.45
5:l3:10:ARG:NH1	5:l3:11:HIS:O	2.50	0.45
11:l9:120:ASP:OD1	11:l9:124:ARG:NH2	2.49	0.45
13:m1:45:PRO:HB2	13:m1:67:VAL:CG2	2.47	0.45
15:m4:58:ILE:HD11	15:m4:62:GLN:HG3	1.98	0.45
18:m7:10:ASN:HB3	18:m7:13:LYS:HB2	1.99	0.45
45:6:129:U:H3'	45:6:130:C:H5''	1.99	0.45
45:6:555:A:H2'	45:6:556:A:C8	2.52	0.45
45:6:640:U:H2'	45:6:641:G:C8	2.52	0.45
49:s3:69:LEU:O	49:s3:73:VAL:HG23	2.17	0.45
62:c6:6:SER:N	62:c6:96:TYR:HE2	2.15	0.45
62:c6:47:LYS:HZ1	62:c6:114:ARG:HD2	1.82	0.45
64:c8:83:ALA:O	64:c8:86:LEU:HB2	2.17	0.45
1:1:289:A:C2	16:M5:93:LYS:HG3	2.52	0.45
1:1:818:C:N3	1:1:920:A:H5'	2.32	0.45
1:1:1331:U:H6	1:1:1331:U:H5'	1.82	0.45
1:1:3081:C:H2'	1:1:3082:C:H6	1.81	0.45
3:4:9:A:H2'	3:4:10:A:H8	1.80	0.45
3:4:131:A:H4'	26:N5:93:TYR:CD2	2.52	0.45
6:L4:327:LEU:O	6:L4:328:ASN:C	2.59	0.45
8:L6:39:VAL:O	8:L6:87:THR:HG23	2.17	0.45
9:L7:84:VAL:HG23	9:L7:137:GLY:O	2.16	0.45
11:L9:49:ASN:HD21	11:L9:51:GLN:CB	2.29	0.45
11:L9:94:TYR:CD2	11:L9:98:PRO:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M0:76:MET:HB3	12:M0:85:PHE:CE2	2.52	0.45
27:N6:31:LEU:HD23	27:N6:31:LEU:HA	1.81	0.45
28:N7:4:PHE:HB2	28:N7:9:LYS:HE3	1.99	0.45
31:O0:78:GLY:HA2	31:O0:87:VAL:HG12	1.97	0.45
33:O2:19:ARG:HH21	33:O2:33:ARG:HG3	1.82	0.45
35:O4:91:ARG:HG3	35:O4:95:ILE:HD13	1.99	0.45
41:Q0:99:CYS:HB3	41:Q0:115:CYS:HB3	1.99	0.45
45:2:235:G:C2	45:2:236:A:H1'	2.52	0.45
45:2:323:A:H2'	45:2:346:G:N2	2.31	0.45
45:2:890:C:H2'	45:2:891:A:H8	1.82	0.45
45:2:914:G:O3'	45:2:915:A:H8	1.99	0.45
45:2:950:C:H2'	45:2:951:A:C8	2.52	0.45
45:2:1069:A:H2'	45:2:1070:C:C6	2.51	0.45
45:2:1207:C:N3	45:2:1456:C:N4	2.65	0.45
45:2:1274:C:H41	79:SM:96:ARG:N	2.11	0.45
45:2:1566:U:O2'	64:C8:37:GLY:HA2	2.17	0.45
45:2:1597:A:P	75:D9:19:ARG:HH21	2.39	0.45
47:S1:33:LYS:O	47:S1:98:THR:HG22	2.17	0.45
48:S2:38:VAL:HG22	48:S2:39:THR:N	2.29	0.45
52:S6:7:TYR:CE1	52:S6:125:THR:HA	2.51	0.45
57:C1:125:VAL:HG12	57:C1:137:PHE:HD1	1.82	0.45
64:C8:28:ILE:HA	64:C8:58:ALA:HB2	1.98	0.45
65:C9:18:TYR:O	65:C9:22:LEU:HB2	2.17	0.45
66:D0:65:ILE:HD12	75:D9:43:PHE:CZ	2.52	0.45
69:D3:144:ARG:H	69:D3:144:ARG:HG2	1.55	0.45
72:D6:73:TYR:CZ	72:D6:82:ARG:HD2	2.52	0.45
78:SR:293:ALA:N	78:SR:302:PHE:O	2.48	0.45
1:5:38:U:H4'	29:n8:32:ARG:HD2	1.98	0.45
1:5:857:G:N7	87:5:4232:HOH:O	2.50	0.45
1:5:889:U:H2'	1:5:890:C:O4'	2.17	0.45
1:5:1091:A:C2'	1:5:1092:C:H5'	2.46	0.45
1:5:1841:A:H5'	1:5:1849:C:OP1	2.17	0.45
1:5:3256:G:H2'	1:5:3257:C:O4'	2.17	0.45
2:7:37:G:H1'	2:7:44:C:O2	2.17	0.45
5:l3:230:THR:HB	5:l3:247:ARG:NH1	2.32	0.45
6:l4:122:THR:HA	6:l4:235:LEU:HD13	1.99	0.45
9:l7:214:TRP:CD2	9:l7:219:LYS:HD3	2.51	0.45
11:l9:86:TYR:CD2	11:l9:151:VAL:HG13	2.52	0.45
12:m0:182:LEU:HD23	12:m0:182:LEU:HA	1.69	0.45
12:m0:210:ILE:HD13	12:m0:217:PHE:CE2	2.51	0.45
14:m3:25:HIS:CE1	16:m5:200:TRP:CE2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:m5:33:LYS:HD3	16:m5:37:HIS:CE1	2.52	0.45
16:m5:59:PHE:HZ	16:m5:148:TYR:CE1	2.35	0.45
24:n3:93:LEU:HD23	24:n3:93:LEU:N	2.32	0.45
33:o2:2:ALA:N	33:o2:90:LYS:HZ1	2.15	0.45
36:o5:94:LYS:O	36:o5:98:SER:OG	2.22	0.45
36:o5:94:LYS:HG2	36:o5:98:SER:OG	2.15	0.45
45:6:271:A:H1'	45:6:285:G:H22	1.82	0.45
45:6:520:A:H2'	45:6:521:A:C8	2.51	0.45
45:6:845:G:C2	45:6:846:G:C5	3.05	0.45
45:6:1026:A:C2	45:6:1792:G:C4	3.05	0.45
45:6:1241:G:H5'	61:c5:102:PHE:CZ	2.52	0.45
45:6:1263:G:H2'	45:6:1264:G:O4'	2.16	0.45
45:6:1458:G:H2'	45:6:1458:G:N3	2.32	0.45
45:6:1768:G:H3'	85:6:2175:LLL:H21	1.99	0.45
46:s0:20:ALA:O	46:s0:21:ASN:HB2	2.17	0.45
46:s0:88:LYS:HG3	46:s0:201:LEU:HG	1.98	0.45
50:s4:248:ILE:H	50:s4:248:ILE:HG13	1.61	0.45
53:s7:173:TYR:HE1	53:s7:179:LYS:HB2	1.81	0.45
54:s8:101:ILE:O	54:s8:101:ILE:HG23	2.12	0.45
54:s8:104:ILE:O	54:s8:165:LEU:N	2.45	0.45
54:s8:137:LYS:HD3	54:s8:137:LYS:HA	1.70	0.45
55:s9:77:ILE:HG23	55:s9:86:LEU:HD23	1.98	0.45
57:c1:64:VAL:HG12	57:c1:129:ARG:NH1	2.31	0.45
59:c3:84:ILE:HD11	59:c3:89:TYR:HD2	1.82	0.45
63:c7:104:ASN:OD1	63:c7:105:GLN:N	2.50	0.45
1:1:291:C:H2'	1:1:292:U:C6	2.52	0.45
1:1:304:G:H3'	1:1:304:G:OP2	2.17	0.45
1:1:349:A:C4	3:4:24:G:H1'	2.52	0.45
1:1:374:A:HO2'	1:1:376:G:H8	1.62	0.45
1:1:435:C:H2'	1:1:436:A:C8	2.52	0.45
1:1:438:A:OP1	33:O2:118:LYS:HE2	2.16	0.45
1:1:1071:U:O2'	1:1:1072:G:OP2	2.27	0.45
1:1:1439:U:H2'	1:1:1440:G:C8	2.51	0.45
1:1:1636:U:H5''	28:N7:73:LYS:NZ	2.31	0.45
1:1:1765:U:C4	20:M9:46:LYS:HE3	2.52	0.45
1:1:2616:C:H3'	1:1:2617:U:O2	2.17	0.45
1:1:2849:C:N4	1:1:2850:G:C6	2.85	0.45
1:1:3393:U:O2'	1:1:3394:U:H5'	2.16	0.45
5:L3:173:GLN:O	5:L3:174:LYS:HB2	2.17	0.45
6:L4:8:VAL:HG12	6:L4:9:HIS:N	2.30	0.45
7:L5:163:LEU:HD21	7:L5:175:HIS:CG	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L6:40:LEU:HD13	8:L6:84:VAL:HG11	1.98	0.45
11:L9:157:ASN:HA	11:L9:160:ASP:HB2	1.98	0.45
11:L9:163:GLN:O	11:L9:166:ARG:HD3	2.16	0.45
12:M0:48:LEU:O	12:M0:139:ARG:HA	2.17	0.45
15:M4:17:VAL:HA	15:M4:35:ILE:O	2.17	0.45
30:N9:2:ALA:O	30:N9:3:LYS:HB2	2.17	0.45
37:O6:20:MET:HE2	37:O6:20:MET:HB3	1.67	0.45
37:O6:79:SER:OG	37:O6:81:THR:HG22	2.17	0.45
41:Q0:97:ARG:HG3	41:Q0:120:GLN:C	2.42	0.45
45:2:331:A:H2'	45:2:332:U:C6	2.52	0.45
45:2:872:G:N2	45:2:956:C:O2	2.50	0.45
45:2:1078:C:H2'	45:2:1079:U:H6	1.82	0.45
45:2:1151:A:H2'	45:2:1152:A:C8	2.52	0.45
45:2:1162:C:H1'	45:2:1616:G:N2	2.31	0.45
51:S5:112:ARG:HD3	71:D5:95:HIS:CE1	2.52	0.45
51:S5:126:ASP:OD1	71:D5:58:ARG:NH1	2.50	0.45
51:S5:133:VAL:HA	51:S5:198:LEU:HD22	1.98	0.45
51:S5:158:GLN:HG2	74:D8:66:LEU:HD21	1.99	0.45
54:S8:100:ALA:O	54:S8:169:ILE:HG12	2.17	0.45
55:S9:115:LYS:HD2	55:S9:115:LYS:HA	1.73	0.45
57:C1:6:THR:C	57:C1:8:GLN:N	2.72	0.45
59:C3:91:LEU:HA	59:C3:91:LEU:HD23	1.76	0.45
60:C4:29:HIS:ND1	60:C4:29:HIS:O	2.50	0.45
71:D5:41:ILE:HD12	71:D5:41:ILE:HA	1.90	0.45
72:D6:9:GLY:O	72:D6:10:ARG:HG3	2.17	0.45
74:D8:25:VAL:HG13	74:D8:44:VAL:O	2.16	0.45
79:SM:48:ARG:H	79:SM:48:ARG:HG3	1.63	0.45
1:5:101:G:H21	1:5:101:G:P	2.38	0.45
1:5:651:G:C6	1:5:652:G:C6	3.04	0.45
1:5:1080:A:OP1	7:15:140:ARG:HD3	2.17	0.45
1:5:1506:A:C5	1:5:1510:G:C6	3.05	0.45
1:5:1546:A:C6	1:5:1547:G:C2	3.05	0.45
1:5:1804:A:O2'	35:o4:78:GLY:HA3	2.16	0.45
1:5:2106:A:H2'	1:5:2107:A:H8	1.82	0.45
1:5:2194:G:H1'	1:5:2274:U:C2	2.52	0.45
1:5:2864:A:H5''	12:m0:114:GLY:HA2	1.98	0.45
1:5:3273:A:H1'	8:l6:83:TYR:CE1	2.52	0.45
3:8:145:U:H2'	3:8:146:U:C6	2.52	0.45
4:l2:116:VAL:HG11	4:l2:134:VAL:HG11	1.99	0.45
4:l2:225:ILE:O	4:l2:238:ILE:O	2.35	0.45
10:l8:101:THR:O	10:l8:103:ALA:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:m7:75:GLU:HG2	18:m7:76:PHE:CD1	2.52	0.45
21:n0:1:MET:HE3	21:n0:1:MET:HB3	1.80	0.45
37:o6:34:SER:O	37:o6:34:SER:OG	2.28	0.45
37:o6:81:THR:HA	37:o6:84:LYS:HE3	1.97	0.45
82:p0:188:VAL:O	82:p0:189:GLN:HG2	2.17	0.45
45:6:828:U:H3'	45:6:828:U:C6	2.52	0.45
45:6:1417:A:O3'	62:c6:128:LYS:HE2	2.16	0.45
45:6:1477:G:OP1	65:c9:44:GLU:N	2.48	0.45
46:s0:124:THR:HG22	46:s0:174:TRP:NE1	2.31	0.45
46:s0:188:LEU:O	46:s0:189:VAL:HG12	2.17	0.45
47:s1:197:ILE:HG22	47:s1:210:ILE:HD13	1.98	0.45
50:s4:31:PRO:HA	50:s4:81:THR:HB	1.99	0.45
56:c0:56:LYS:HE2	56:c0:56:LYS:HB3	1.82	0.45
57:c1:57:LYS:HD3	57:c1:131:ILE:HG23	1.98	0.45
60:c4:129:LYS:HG2	60:c4:130:GLY:N	2.32	0.45
61:c5:92:SER:O	61:c5:107:ILE:HG12	2.17	0.45
70:d4:20:ARG:HH11	70:d4:22:GLN:NE2	2.15	0.45
70:d4:77:ASN:O	70:d4:81:GLU:HB2	2.17	0.45
1:1:132:C:H2'	1:1:133:U:H5''	1.99	0.45
1:1:308:A:H5'	1:1:2223:A:O2'	2.16	0.45
1:1:439:C:O2	1:1:439:C:H2'	2.17	0.45
1:1:707:U:O2'	1:1:754:G:N3	2.48	0.45
1:1:874:U:N3	1:1:2978:U:OP1	2.46	0.45
1:1:915:A:C5	1:1:917:A:H1'	2.51	0.45
1:1:928:C:H2'	1:1:929:A:C8	2.52	0.45
1:1:1301:A:H4'	1:1:1302:A:O5'	2.17	0.45
1:1:1452:A:H1'	1:1:2347:U:O5'	2.18	0.45
1:1:2805:G:N3	1:1:2967:A:H2	2.15	0.45
4:L2:114:SER:HB2	4:L2:169:ILE:CD1	2.47	0.45
4:L2:116:VAL:HG22	4:L2:126:LEU:HB2	1.98	0.45
11:L9:91:ARG:HH21	11:L9:91:ARG:HG3	1.82	0.45
13:M1:85:LYS:HA	13:M1:89:TYR:HE2	1.82	0.45
15:M4:24:LYS:HE3	15:M4:61:GLY:O	2.17	0.45
21:N0:2:ALA:HB3	21:N0:32:SER:HB3	1.99	0.45
22:N1:39:ILE:HD12	22:N1:102:ARG:HD3	1.98	0.45
22:N1:82:ASN:O	30:N9:21:ILE:HA	2.16	0.45
24:N3:85:TRP:O	24:N3:92:PHE:HA	2.16	0.45
36:O5:42:PRO:O	36:O5:45:LYS:HB3	2.17	0.45
38:O7:21:ARG:HH12	38:O7:44:THR:HA	1.82	0.45
44:Q3:49:ARG:HB2	44:Q3:55:TRP:CZ3	2.52	0.45
45:2:140:A:H5'	45:2:140:A:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:525:A:H2'	45:2:526:A:C8	2.52	0.45
45:2:861:U:H5'	45:2:862:A:OP2	2.16	0.45
45:2:1061:A:H3'	45:2:1062:A:C2	2.52	0.45
45:2:1092:A:C5	45:2:1094:G:C8	3.05	0.45
45:2:1099:U:OP1	68:D2:71:LYS:NZ	2.43	0.45
45:2:1233:G:H2'	45:2:1234:A:O4'	2.17	0.45
45:2:1617:U:O2'	45:2:1618:C:H5'	2.17	0.45
49:S3:76:ARG:HD3	49:S3:76:ARG:C	2.42	0.45
54:S8:184:LEU:C	54:S8:189:LEU:HB2	2.42	0.45
57:C1:36:LYS:HE3	57:C1:59:PRO:O	2.17	0.45
59:C3:23:PRO:HB2	59:C3:25:TRP:CD1	2.52	0.45
60:C4:99:GLN:HG3	72:D6:46:GLU:OE2	2.17	0.45
62:C6:131:GLY:HA3	62:C6:136:SER:O	2.17	0.45
68:D2:111:MET:HE1	68:D2:121:VAL:HG23	1.97	0.45
1:5:27:C:H1'	1:5:328:U:H1'	1.99	0.45
1:5:156:G:P	37:o6:27:SER:HG	2.39	0.45
1:5:181:U:H4'	38:o7:75:LYS:HG2	1.97	0.45
1:5:639:G:P	33:o2:40:SER:HB2	2.57	0.45
1:5:644:G:H2'	1:5:2372:A:C5	2.52	0.45
1:5:708:G:H5'	1:5:709:A:OP2	2.17	0.45
1:5:1481:A:C6	1:5:1859:A:C8	3.05	0.45
1:5:1618:G:O6	85:5:4162:LLL:N21	2.50	0.45
1:5:1758:G:H2'	1:5:1759:C:O4'	2.17	0.45
1:5:1762:C:H2'	1:5:1763:U:H5''	1.99	0.45
1:5:1907:C:O2	5:l3:240:ARG:NH2	2.50	0.45
1:5:3006:A:H2'	1:5:3007:U:O4'	2.17	0.45
1:5:3273:A:OP2	8:l6:77:ARG:NH1	2.49	0.45
85:5:4160:LLL:H532	85:5:4160:LLL:O52	2.16	0.45
5:l3:229:VAL:HG11	5:l3:249:VAL:HG23	1.98	0.45
7:l5:122:VAL:C	7:l5:124:GLU:H	2.25	0.45
7:l5:191:ASP:OD1	7:l5:194:LEU:HB2	2.17	0.45
7:l5:232:ASP:O	7:l5:235:SER:HB3	2.17	0.45
10:l8:108:ARG:O	10:l8:112:GLU:N	2.33	0.45
11:l9:34:LEU:HD21	11:l9:149:ASN:HB2	1.98	0.45
11:l9:68:LEU:HD23	11:l9:68:LEU:HA	1.75	0.45
29:n8:86:LYS:O	29:n8:90:TYR:HD2	2.00	0.45
35:o4:102:LYS:HB2	35:o4:102:LYS:HE3	1.78	0.45
39:o8:5:ILE:HD11	39:o8:10:GLN:OE1	2.17	0.45
45:6:27:U:H2'	45:6:28:A:C8	2.52	0.45
45:6:219:A:H2'	45:6:831:U:O2	2.17	0.45
45:6:902:G:H2'	45:6:903:U:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1133:A:H2'	45:6:1134:C:O4'	2.17	0.45
45:6:1787:C:OP2	60:c4:132:ARG:HG2	2.16	0.45
51:s5:99:MET:N	51:s5:103:ASN:HB2	2.32	0.45
51:s5:190:ILE:HA	51:s5:193:THR:OG1	2.17	0.45
60:c4:81:VAL:HG13	60:c4:115:ILE:HA	1.99	0.45
63:c7:27:ASP:O	63:c7:31:ASN:ND2	2.50	0.45
63:c7:77:GLU:HG2	63:c7:80:ARG:HH21	1.82	0.45
68:d2:67:GLY:O	68:d2:69:LEU:N	2.49	0.45
73:d7:63:LEU:O	73:d7:74:SER:HB3	2.17	0.45
78:sR:169:ILE:CG1	78:sR:181:TRP:HB2	2.40	0.45
78:sR:260:ILE:HD12	78:sR:274:LEU:HD12	1.98	0.45
1:1:313:A:C6	1:1:314:U:C4	3.05	0.44
1:1:593:C:H2'	1:1:594:U:C6	2.52	0.44
1:1:848:A:C5	1:1:849:C:H1'	2.53	0.44
1:1:1183:C:H42	1:1:1323:G:H1	1.65	0.44
1:1:3199:G:C2	1:1:3200:G:C8	3.04	0.44
4:L2:30:ARG:HH21	4:L2:36:GLU:HG3	1.82	0.44
4:L2:61:VAL:HG21	4:L2:76:PHE:HD2	1.81	0.44
6:L4:138:ARG:NH1	6:L4:138:ARG:O	2.50	0.44
10:L8:246:MET:HA	10:L8:249:ARG:HB3	1.98	0.44
14:M3:75:PHE:HA	14:M3:101:ARG:HH12	1.82	0.44
14:M3:103:ASN:ND2	14:M3:109:PHE:HD2	2.15	0.44
22:N1:45:ASN:OD1	22:N1:47:SER:OG	2.27	0.44
45:2:535:A:P	55:S9:168:ARG:HH12	2.40	0.44
45:2:747:C:H2'	45:2:748:U:C6	2.52	0.44
45:2:765:G:O5'	45:2:765:G:C8	2.71	0.44
45:2:1253:U:H4'	77:E1:142:GLY:C	2.42	0.44
46:S0:101:ARG:NH1	46:S0:103:THR:HA	2.31	0.44
47:S1:184:LEU:O	47:S1:188:LEU:HG	2.17	0.44
49:S3:70:THR:CG2	49:S3:86:LEU:HB2	2.47	0.44
49:S3:149:ALA:O	49:S3:150:MET:HG2	2.17	0.44
58:C2:125:ASN:HB2	79:SM:169:ALA:O	2.16	0.44
58:C2:131:ASP:OD1	58:C2:132:GLU:N	2.50	0.44
62:C6:9:THR:HG21	62:C6:87:LYS:C	2.42	0.44
62:C6:113:ASP:O	62:C6:114:ARG:HB2	2.17	0.44
68:D2:18:GLU:HG3	68:D2:65:LEU:CD1	2.46	0.44
69:D3:27:ASN:O	69:D3:30:LYS:HB3	2.17	0.44
72:D6:46:GLU:H	72:D6:49:ALA:HB3	1.82	0.44
78:SR:73:LEU:HD23	78:SR:79:TYR:O	2.16	0.44
1:5:106:A:C2	1:5:325:A:N3	2.86	0.44
1:5:155:G:H5''	1:5:156:G:N7	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:579:G:O2'	1:5:580:C:H5'	2.18	0.44
1:5:643:U:OP1	1:5:1116:G:O2'	2.31	0.44
1:5:677:A:H4'	1:5:678:G:O5'	2.17	0.44
1:5:1467:A:C6	1:5:1511:U:C2	3.04	0.44
1:5:2262:A:H5''	1:5:2263:C:OP2	2.16	0.44
1:5:3091:A:C4	1:5:3094:A:C8	3.04	0.44
1:5:3344:A:H2'	1:5:3345:G:O4'	2.16	0.44
2:7:57:G:H3'	2:7:58:C:H6	1.82	0.44
6:l4:179:LEU:HD23	6:l4:179:LEU:HA	1.86	0.44
6:l4:338:LYS:HA	6:l4:338:LYS:HD2	1.70	0.44
8:l6:7:PRO:HD3	33:o2:74:PHE:HE1	1.82	0.44
9:l7:80:GLN:HB2	22:n1:136:ARG:H	1.81	0.44
14:m3:14:PHE:N	14:m3:14:PHE:CD1	2.85	0.44
16:m5:114:ARG:HD3	16:m5:114:ARG:HA	1.83	0.44
17:m6:68:ARG:H	17:m6:68:ARG:HG2	1.50	0.44
24:n3:10:LYS:NZ	24:n3:54:LEU:O	2.46	0.44
24:n3:39:VAL:HG21	24:n3:51:ALA:C	2.42	0.44
28:n7:34:LYS:HA	28:n7:34:LYS:HD2	1.61	0.44
31:o0:74:ASN:ND2	31:o0:86:ARG:HD3	2.31	0.44
32:o1:31:ARG:O	32:o1:35:GLU:HB2	2.16	0.44
38:o7:28:HIS:CG	38:o7:31:LYS:HB2	2.52	0.44
82:p0:19:LEU:HD22	82:p0:73:PHE:CZ	2.52	0.44
45:6:417:A:H4'	45:6:418:G:O5'	2.17	0.44
45:6:845:G:H2'	45:6:846:G:C8	2.53	0.44
49:s3:20:GLU:HB2	56:c0:61:TRP:CZ3	2.52	0.44
50:s4:20:LEU:HD23	50:s4:20:LEU:HA	1.80	0.44
52:s6:7:TYR:CD1	52:s6:125:THR:HA	2.52	0.44
63:c7:108:ASP:HA	63:c7:111:LYS:HB2	1.98	0.44
66:d0:99:ILE:O	66:d0:103:ILE:HB	2.17	0.44
68:d2:22:LYS:HE2	73:d7:3:LEU:HD23	2.00	0.44
68:d2:67:GLY:C	68:d2:69:LEU:H	2.24	0.44
69:d3:83:VAL:HG21	69:d3:122:PHE:CE2	2.52	0.44
72:d6:41:ILE:HD12	72:d6:68:TYR:CD1	2.52	0.44
75:d9:5:ASN:N	75:d9:7:TRP:NE1	2.62	0.44
1:1:612:U:H2'	1:1:613:G:H8	1.81	0.44
1:1:617:G:H2'	1:1:618:C:C6	2.52	0.44
1:1:1185:C:H2'	1:1:1186:G:O4'	2.18	0.44
1:1:1223:A:P	1:1:1284:C:H42	2.39	0.44
1:1:1471:U:OP1	20:M9:5:ARG:NH2	2.33	0.44
1:1:1498:A:H5'	1:1:1602:A:H1'	1.99	0.44
1:1:1562:C:H2'	1:1:1563:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1655:G:H1'	1:1:1800:A:H61	1.82	0.44
1:1:1877:U:H5''	1:1:1878:G:C5'	2.47	0.44
1:1:3045:G:H2'	1:1:3046:A:O4'	2.17	0.44
1:1:3133:C:C2	1:1:3134:A:C8	3.06	0.44
2:3:57:G:C8	2:3:58:C:C5	3.05	0.44
2:3:77:G:N2	2:3:102:A:OP2	2.40	0.44
3:4:18:U:H2'	3:4:19:C:C6	2.53	0.44
8:L6:62:THR:O	8:L6:63:LEU:HD23	2.17	0.44
12:M0:9:TYR:CB	12:M0:97:LEU:HD13	2.47	0.44
17:M6:121:PRO:HA	17:M6:124:LEU:HB2	1.99	0.44
18:M7:138:LYS:HD2	18:M7:140:GLU:CD	2.41	0.44
19:M8:98:LYS:HB2	19:M8:98:LYS:HE3	1.55	0.44
26:N5:103:TYR:O	26:N5:138:ARG:NH1	2.50	0.44
31:O0:24:THR:CG2	31:O0:91:SER:HB3	2.42	0.44
33:O2:3:SER:OG	33:O2:70:GLY:HA3	2.17	0.44
35:O4:3:GLN:HB3	35:O4:30:LEU:HD12	1.99	0.44
37:O6:60:LEU:O	37:O6:64:SER:N	2.48	0.44
45:2:75:U:H2'	45:2:76:A:O4'	2.17	0.44
45:2:209:U:H5'	54:S8:171:SER:HB3	1.98	0.44
45:2:1192:C:H3'	45:2:1193:A:H2'	2.00	0.44
45:2:1528:U:OP1	51:S5:109:LYS:HG3	2.17	0.44
46:S0:32:HIS:O	46:S0:34:GLU:N	2.49	0.44
48:S2:165:VAL:HG11	48:S2:210:THR:HA	1.99	0.44
49:S3:158:ILE:HD13	49:S3:189:MET:HE1	1.99	0.44
50:S4:100:ARG:HD3	50:S4:236:ILE:HD12	1.97	0.44
50:S4:176:ASP:HB2	50:S4:179:LYS:HZ3	1.82	0.44
53:S7:39:ARG:N	53:S7:40:PRO:HD2	2.32	0.44
55:S9:29:LYS:HG3	76:E0:44:PHE:CE2	2.52	0.44
56:C0:25:LYS:HD3	56:C0:59:PHE:CZ	2.53	0.44
56:C0:61:TRP:C	56:C0:62:GLN:HG2	2.42	0.44
64:C8:41:ARG:HH12	65:C9:38:LYS:HB2	1.81	0.44
64:C8:134:ARG:HB2	64:C8:136:GLN:OE1	2.18	0.44
65:C9:9:VAL:HG22	65:C9:140:LEU:HD11	1.99	0.44
72:D6:41:ILE:HG22	72:D6:68:TYR:HD1	1.82	0.44
73:D7:37:CYS:O	73:D7:40:CYS:N	2.22	0.44
76:E0:46:ASN:O	76:E0:47:VAL:HG12	2.17	0.44
77:E1:98:VAL:O	77:E1:99:LYS:HG3	2.16	0.44
1:5:558:U:H6	1:5:558:U:OP1	2.01	0.44
1:5:634:C:O2'	33:o2:47:ARG:HD2	2.17	0.44
1:5:1597:C:C4'	1:5:1696:A:H1'	2.48	0.44
1:5:1677:G:H5'	23:n2:97:SER:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:2129:U:H2'	1:5:2130:G:C8	2.53	0.44
1:5:2703:A:OP2	7:l5:23:ARG:NH2	2.50	0.44
3:8:143:U:H4'	16:m5:139:HIS:NE2	2.32	0.44
5:l3:265:ALA:C	5:l3:266:ARG:HG2	2.42	0.44
7:l5:102:GLY:O	7:l5:105:ILE:HG22	2.17	0.44
10:l8:177:TYR:CZ	10:l8:222:PHE:O	2.71	0.44
11:l9:31:ARG:HD3	11:l9:149:ASN:OD1	2.17	0.44
11:l9:38:LEU:HD23	11:l9:38:LEU:HA	1.82	0.44
24:n3:2:SER:N	24:n3:56:ASP:HA	2.33	0.44
81:n4:45:ASN:OD1	81:n4:47:ARG:HB2	2.17	0.44
81:n4:98:PRO:HA	81:n4:101:ARG:HB2	1.99	0.44
28:n7:87:LEU:HD12	28:n7:88:ASP:N	2.31	0.44
29:n8:75:LEU:HD13	29:n8:118:ILE:HD11	1.99	0.44
82:p0:79:PHE:CE2	82:p0:196:VAL:HG21	2.52	0.44
45:6:61:A:C6	45:6:62:A:C6	3.05	0.44
45:6:514:G:C8	45:6:537:G:N2	2.85	0.44
45:6:1230:A:C2	45:6:1256:A:C5	3.05	0.44
45:6:1490:C:H6	45:6:1492:A:H5'	1.82	0.44
85:6:2167:LLL:H531	47:s1:162:ARG:HH11	1.82	0.44
46:s0:9:LEU:O	46:s0:9:LEU:HD22	2.18	0.44
48:s2:152:HIS:ND1	48:s2:174:ARG:HG2	2.32	0.44
49:s3:29:LEU:HD22	49:s3:58:VAL:HG22	2.00	0.44
49:s3:137:VAL:HB	49:s3:185:LYS:HB2	2.00	0.44
50:s4:127:LYS:HD2	50:s4:142:HIS:HA	1.98	0.44
50:s4:196:VAL:N	50:s4:209:HIS:O	2.51	0.44
54:s8:63:GLY:HA3	54:s8:78:ILE:HD11	1.98	0.44
61:c5:130:ARG:CD	79:sM:74:LYS:HE3	2.40	0.44
64:c8:36:LYS:HG2	64:c8:105:VAL:HG21	1.98	0.44
64:c8:70:VAL:HG12	64:c8:74:GLN:NE2	2.32	0.44
73:d7:14:SER:O	73:d7:17:ARG:HG2	2.18	0.44
78:sR:205:SER:HA	78:sR:245:PHE:CD2	2.53	0.44
1:1:355:A:N1	6:L4:82:THR:OG1	2.45	0.44
1:1:391:A:C5	1:1:392:G:C8	3.05	0.44
1:1:400:G:H4'	1:1:401:U:H5''	2.00	0.44
1:1:627:U:H2'	1:1:628:A:C8	2.52	0.44
1:1:707:U:H1'	1:1:754:G:H1'	1.98	0.44
1:1:1288:U:H2'	1:1:1289:G:H8	1.82	0.44
1:1:2341:A:O3'	1:1:3090:U:H4'	2.17	0.44
1:1:2941:A:OP2	1:1:2941:A:H8	2.00	0.44
1:1:2984:C:H2'	1:1:2985:C:H6	1.82	0.44
3:4:142:C:H2'	3:4:143:U:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L7:80:GLN:HG3	22:N1:136:ARG:HB2	1.99	0.44
11:L9:31:ARG:HB3	11:L9:82:VAL:O	2.17	0.44
11:L9:41:ILE:O	11:L9:42:ASP:HB2	2.18	0.44
11:L9:117:PHE:O	11:L9:120:ASP:HB2	2.17	0.44
12:M0:169:LYS:HZ2	22:N1:158:THR:H	1.64	0.44
14:M3:105:ASN:ND2	37:O6:17:VAL:HG21	2.33	0.44
20:M9:171:ASP:O	20:M9:175:GLN:HB2	2.18	0.44
26:N5:129:ASP:HB2	26:N5:130:TYR:CD1	2.52	0.44
31:O0:15:ALA:O	31:O0:18:ILE:HG22	2.16	0.44
45:2:413:U:H2'	45:2:414:C:C6	2.52	0.44
45:2:1102:G:H2'	45:2:1103:U:O4'	2.17	0.44
46:S0:52:LYS:CE	67:D1:82:VAL:HA	2.48	0.44
46:S0:117:GLU:OE2	48:S2:39:THR:HA	2.17	0.44
50:S4:180:LEU:HB3	50:S4:228:ILE:HG13	1.99	0.44
53:S7:141:ARG:HD2	68:D2:51:GLU:OE1	2.17	0.44
72:D6:23:CYS:SG	72:D6:25:ASN:N	2.84	0.44
1:5:282:G:H5''	1:5:283:G:OP1	2.17	0.44
1:5:289:A:C2	16:m5:93:LYS:HG3	2.52	0.44
1:5:854:G:H4'	20:m9:130:ASN:OD1	2.16	0.44
1:5:1507:G:H1'	18:m7:139:TYR:CZ	2.52	0.44
1:5:1848:G:H5'	40:o9:45:ARG:NH1	2.33	0.44
1:5:2325:G:C2	1:5:2326:A:C8	3.06	0.44
1:5:2681:U:OP1	13:m1:50:ALA:HA	2.17	0.44
1:5:3216:G:OP2	34:o3:2:ALA:HB2	2.17	0.44
5:l3:114:VAL:HG22	5:l3:163:HIS:NE2	2.32	0.44
5:l3:169:THR:HG23	5:l3:171:LEU:HG	2.00	0.44
11:l9:93:VAL:HG21	41:q0:86:ALA:HB2	1.99	0.44
14:m3:74:GLY:CA	14:m3:98:ASP:HB2	2.47	0.44
15:m4:127:LYS:O	15:m4:131:VAL:HG23	2.17	0.44
22:n1:40:VAL:O	22:n1:61:THR:HG23	2.18	0.44
30:n9:18:ARG:HE	30:n9:18:ARG:HB3	1.63	0.44
35:o4:7:PHE:HE1	35:o4:20:ILE:HG13	1.82	0.44
82:p0:60:ARG:HG2	82:p0:77:LEU:HD22	2.00	0.44
44:q3:42:CYS:HB3	44:q3:60:CYS:HB3	1.99	0.44
45:6:234:G:H2'	45:6:235:G:O4'	2.18	0.44
45:6:632:U:OP1	57:c1:102:LYS:HG3	2.16	0.44
45:6:1191:U:H4'	62:c6:143:ARG:HB3	1.99	0.44
45:6:1232:U:C5	77:e1:97:LYS:HD3	2.53	0.44
45:6:1768:G:H2'	85:6:2175:LLL:H212	1.82	0.44
47:s1:29:TRP:HE3	47:s1:45:LYS:HB3	1.81	0.44
50:s4:15:PRO:HA	50:s4:39:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s4:46:VAL:O	50:s4:50:ASN:HB2	2.17	0.44
51:s5:69:PHE:HD2	62:c6:50:GLU:HG3	1.82	0.44
53:s7:154:LEU:HD21	53:s7:183:PHE:HD1	1.82	0.44
54:s8:83:TYR:HB3	54:s8:101:ILE:HG12	1.98	0.44
56:c0:55:VAL:HG23	56:c0:67:THR:O	2.17	0.44
58:c2:97:LEU:HD11	58:c2:121:VAL:HG22	1.99	0.44
68:d2:10:ALA:HB1	68:d2:27:ILE:HD13	1.98	0.44
68:d2:76:SER:HA	68:d2:77:PRO:C	2.42	0.44
69:d3:55:GLU:HG2	69:d3:73:ARG:HB2	1.99	0.44
70:d4:13:ILE:O	70:d4:22:GLN:N	2.39	0.44
78:sR:23:LEU:HD21	78:sR:310:ILE:HD13	1.98	0.44
79:sM:112:ASP:OD2	79:sM:113:ASP:N	2.51	0.44
1:1:197:G:N2	1:1:372:A:C8	2.85	0.44
1:1:1278:A:O2'	1:1:1279:C:C6	2.70	0.44
1:1:1602:A:H4'	20:M9:10:LEU:HD21	2.00	0.44
1:1:2667:A:H2'	1:1:2668:U:O4'	2.18	0.44
1:1:3133:C:H2'	1:1:3134:A:O4'	2.18	0.44
1:1:3192:U:H3	1:1:3200:G:H1	1.65	0.44
5:L3:44:THR:HG23	5:L3:184:ASN:HB2	1.99	0.44
6:L4:289:ILE:O	6:L4:295:ILE:HD12	2.18	0.44
10:L8:160:ILE:HG22	10:L8:164:VAL:CG1	2.46	0.44
10:L8:161:GLU:CD	16:M5:26:ARG:HH12	2.26	0.44
11:L9:20:ILE:HD12	15:M4:7:VAL:HG23	2.00	0.44
18:M7:116:HIS:HB3	18:M7:149:VAL:CG1	2.47	0.44
43:Q2:43:TYR:CZ	43:Q2:47:GLN:NE2	2.85	0.44
44:Q3:49:ARG:HD3	44:Q3:52:ALA:HA	2.00	0.44
45:2:420:A:OP1	52:S6:96:SER:OG	2.20	0.44
45:2:693:U:H5''	45:2:694:U:C5'	2.43	0.44
45:2:1034:C:O2'	68:D2:2:THR:N	2.44	0.44
45:2:1056:U:H1'	47:S1:202:LYS:NZ	2.33	0.44
45:2:1346:A:OP2	45:2:1348:A:N6	2.37	0.44
45:2:1755:A:C8	45:2:1755:A:H5''	2.53	0.44
46:S0:172:LEU:HD13	46:S0:176:LEU:HD11	2.00	0.44
48:S2:72:LEU:HD12	48:S2:72:LEU:HA	1.83	0.44
48:S2:163:GLY:HA3	48:S2:209:ASN:ND2	2.33	0.44
49:S3:106:LYS:O	49:S3:110:LEU:HB2	2.17	0.44
53:S7:49:ILE:HD12	53:S7:172:VAL:HA	1.98	0.44
53:S7:67:LEU:HD22	53:S7:71:HIS:CE1	2.52	0.44
54:S8:37:LYS:H	54:S8:59:ARG:H	1.66	0.44
54:S8:84:HIS:CE1	54:S8:86:SER:HB2	2.52	0.44
55:S9:126:ARG:NE	76:E0:33:ARG:HD3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:C3:100:LYS:HG2	59:C3:104:ARG:NH1	2.31	0.44
62:C6:89:LEU:HG	62:C6:105:LEU:HD23	1.99	0.44
66:D0:34:LEU:HD11	66:D0:89:ARG:HG3	2.00	0.44
75:D9:6:VAL:O	75:D9:6:VAL:HG12	2.18	0.44
75:D9:46:LYS:O	75:D9:50:ILE:HG13	2.18	0.44
77:E1:136:LYS:C	77:E1:138:ARG:N	2.76	0.44
1:5:1329:U:O5'	1:5:1329:U:H6	2.00	0.44
1:5:1735:G:N2	1:5:1736:G:H1'	2.32	0.44
1:5:2163:C:H4'	4:12:7:ASN:O	2.17	0.44
1:5:2315:G:C2	1:5:2316:G:C5	3.06	0.44
1:5:2812:C:H2'	1:5:2813:A:H8	1.83	0.44
1:5:2882:U:H2'	1:5:2883:U:O4'	2.17	0.44
1:5:3124:G:H5'	11:19:40:HIS:ND1	2.32	0.44
1:5:3245:A:H2	1:5:3246:G:N1	2.15	0.44
2:7:105:C:OP1	85:7:232:LLL:H831	2.17	0.44
3:8:53:A:H3'	3:8:54:A:H8	1.82	0.44
12:m0:210:ILE:HA	12:m0:217:PHE:CZ	2.52	0.44
18:m7:31:GLU:HG3	18:m7:60:PHE:CG	2.52	0.44
20:m9:74:ARG:HA	20:m9:74:ARG:HD2	1.74	0.44
26:n5:96:LYS:HG3	26:n5:107:VAL:HB	1.99	0.44
34:o3:52:VAL:HG21	34:o3:99:ARG:NH1	2.32	0.44
45:6:277:U:HO2'	45:6:278:U:P	2.40	0.44
45:6:461:G:H2'	45:6:462:G:H8	1.82	0.44
45:6:980:G:H4'	45:6:1776:A:H4'	2.00	0.44
45:6:1231:U:O4	77:e1:97:LYS:HE3	2.17	0.44
45:6:1391:A:H2'	45:6:1392:U:C6	2.52	0.44
45:6:1784:C:H2'	45:6:1785:U:C6	2.53	0.44
46:s0:126:PRO:HB2	46:s0:152:PRO:HG2	1.99	0.44
47:s1:113:MET:HE2	47:s1:142:PHE:CE2	2.52	0.44
48:s2:187:LEU:HD21	48:s2:218:ILE:HD11	1.98	0.44
51:s5:59:VAL:HG12	51:s5:60:ASP:H	1.82	0.44
51:s5:62:VAL:HG13	51:s5:89:ILE:HG21	1.98	0.44
51:s5:76:ARG:HB3	51:s5:79:ASN:OD1	2.16	0.44
51:s5:89:ILE:H	51:s5:89:ILE:HG13	1.49	0.44
53:s7:129:LEU:HD21	53:s7:172:VAL:HG11	1.99	0.44
54:s8:103:GLN:HG3	54:s8:166:TYR:CD1	2.53	0.44
60:c4:115:ILE:HG21	72:d6:44:ILE:HG21	2.00	0.44
66:d0:70:THR:HG22	66:d0:71:PRO:O	2.16	0.44
67:d1:3:ASN:ND2	67:d1:7:GLN:HB2	2.32	0.44
71:d5:37:GLN:HG2	71:d5:38:HIS:N	2.32	0.44
1:1:89:A:OP2	19:M8:171:LYS:HE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:277:G:H2'	1:1:278:U:O4'	2.18	0.44
1:1:361:A:H5'	38:O7:35:SER:OG	2.18	0.44
1:1:361:A:O4'	1:1:814:U:H4'	2.18	0.44
1:1:590:G:C2	1:1:610:G:H2'	2.53	0.44
1:1:595:G:H2'	1:1:596:C:H6	1.82	0.44
1:1:715:A:C8	29:N8:115:LYS:HD3	2.53	0.44
1:1:2254:U:H2'	1:1:2261:G:H22	1.83	0.44
1:1:2442:G:N2	1:1:2505:U:H3	2.15	0.44
1:1:3008:A:H61	1:1:3138:U:H3	1.66	0.44
1:1:3037:U:H2'	1:1:3038:U:C6	2.51	0.44
6:L4:49:ALA:HA	6:L4:109:TRP:CE2	2.51	0.44
7:L5:94:ASN:OD1	7:L5:97:ALA:N	2.50	0.44
8:L6:170:LYS:O	8:L6:173:MET:N	2.49	0.44
11:L9:2:LYS:HA	11:L9:60:GLY:O	2.17	0.44
13:M1:23:VAL:O	13:M1:65:ILE:HG23	2.18	0.44
17:M6:23:VAL:CG1	17:M6:84:LEU:HD11	2.47	0.44
17:M6:152:VAL:O	17:M6:156:LEU:HG	2.16	0.44
19:M8:64:VAL:HG12	19:M8:90:ASP:H	1.82	0.44
19:M8:83:VAL:O	19:M8:103:ALA:HA	2.16	0.44
26:N5:142:ILE:HD13	26:N5:142:ILE:HA	1.93	0.44
28:N7:38:PHE:O	28:N7:40:HIS:ND1	2.42	0.44
45:2:276:C:H1'	45:2:277:U:C5	2.53	0.44
45:2:329:G:H5''	54:S8:98:LYS:HB3	2.00	0.44
45:2:970:A:H5'	45:2:971:A:OP2	2.17	0.44
45:2:973:A:H2'	45:2:974:A:C8	2.50	0.44
45:2:1092:A:C4	45:2:1094:G:C8	3.06	0.44
45:2:1508:U:H2'	45:2:1509:C:C6	2.52	0.44
45:2:1762:A:O2'	45:2:1763:A:H5'	2.18	0.44
46:S0:22:THR:HG21	46:S0:172:LEU:HD12	2.00	0.44
46:S0:124:THR:HA	46:S0:146:LEU:HB2	1.99	0.44
47:S1:65:VAL:HA	47:S1:86:LEU:O	2.17	0.44
47:S1:131:ASP:HB3	47:S1:180:THR:CG2	2.48	0.44
49:S3:69:LEU:HA	49:S3:72:LEU:HB2	1.98	0.44
52:S6:98:ARG:HD3	52:S6:99:GLY:N	2.32	0.44
61:C5:86:VAL:HG13	61:C5:89:MET:HG3	1.99	0.44
61:C5:110:GLU:OE1	61:C5:110:GLU:N	2.50	0.44
62:C6:30:LYS:O	62:C6:66:ARG:HA	2.17	0.44
65:C9:108:LEU:HA	65:C9:111:ILE:HG22	2.00	0.44
78:SR:144:LEU:HA	78:SR:144:LEU:HD13	1.77	0.44
1:5:19:U:H4'	16:m5:138:GLN:CD	2.43	0.44
1:5:53:G:P	38:o7:48:ASN:HB2	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:92:G:OP2	1:5:93:C:H5''	2.17	0.44
1:5:979:U:H1'	1:5:980:A:C8	2.52	0.44
1:5:979:U:H4'	1:5:980:A:H5'	1.99	0.44
1:5:2828:G:OP1	12:m0:7:ARG:NH1	2.51	0.44
1:5:2899:C:H2'	11:l9:171:ASP:HB2	1.99	0.44
1:5:3343:G:H5''	1:5:3344:A:OP1	2.17	0.44
3:8:24:G:OP2	27:n6:13:ARG:HD3	2.18	0.44
3:8:94:C:H5''	38:o7:76:ASN:HD21	1.83	0.44
5:l3:114:VAL:O	5:l3:115:LYS:C	2.60	0.44
5:l3:192:VAL:HA	5:l3:195:ALA:HB3	2.00	0.44
7:l5:68:THR:CG2	7:l5:70:THR:H	2.24	0.44
16:m5:190:THR:O	16:m5:194:GLN:HG3	2.17	0.44
17:m6:177:LYS:HE2	17:m6:177:LYS:HB3	1.78	0.44
18:m7:59:PRO:HG3	18:m7:76:PHE:CD1	2.53	0.44
20:m9:139:VAL:O	20:m9:143:ILE:HD13	2.17	0.44
22:n1:84:TYR:O	22:n1:85:LEU:HD23	2.17	0.44
27:n6:11:ASP:HB3	27:n6:14:LYS:HG3	2.00	0.44
37:o6:86:LYS:HD2	37:o6:86:LYS:HA	1.85	0.44
45:6:40:A:H2'	45:6:41:A:O4'	2.18	0.44
45:6:98:U:C4	45:6:99:C:N4	2.86	0.44
45:6:772:G:P	55:s9:7:THR:HG22	2.57	0.44
46:s0:30:GLN:NE2	46:s0:151:SER:O	2.51	0.44
50:s4:94:ALA:HB3	70:d4:17:LEU:HD23	1.99	0.44
54:s8:62:THR:O	54:s8:62:THR:OG1	2.31	0.44
54:s8:101:ILE:HD12	54:s8:101:ILE:HA	1.82	0.44
56:c0:50:THR:HG22	56:c0:55:VAL:C	2.43	0.44
59:c3:136:PRO:C	59:c3:138:ASN:H	2.25	0.44
63:c7:98:GLY:O	63:c7:99:VAL:HG22	2.18	0.44
68:d2:115:GLU:HG2	68:d2:119:LYS:HD2	1.99	0.44
70:d4:52:LYS:O	70:d4:55:VAL:HG22	2.16	0.44
78:sR:261:LYS:HA	78:sR:273:ASP:HA	1.99	0.44
1:1:875:G:OP2	87:1:4175:HOH:O	2.21	0.44
1:1:915:A:H2'	1:1:915:A:N3	2.33	0.44
1:1:953:G:C8	1:1:1117:G:C8	3.06	0.44
1:1:1297:C:OP2	85:1:3989:LLL:N12	2.50	0.44
1:1:1680:G:H2'	1:1:1681:U:C6	2.52	0.44
1:1:1747:G:O3'	39:O8:53:THR:HG21	2.18	0.44
1:1:2158:A:H4'	1:1:2159:U:C5'	2.46	0.44
1:1:2287:C:C2	1:1:2298:U:O4'	2.70	0.44
1:1:2550:U:C4	10:L8:36:ILE:CG2	3.01	0.44
1:1:2617:U:H5	1:1:2621:G:OP2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L3:284:ARG:HB3	5:L3:323:MET:HE2	2.00	0.44
11:L9:16:VAL:HG11	11:L9:79:ILE:HG12	1.98	0.44
16:M5:195:ASN:OD1	16:M5:195:ASN:N	2.50	0.44
21:N0:141:LYS:HA	21:N0:144:LEU:HD12	1.99	0.44
27:N6:85:VAL:HG12	27:N6:97:ILE:HB	2.00	0.44
29:N8:66:ALA:HA	29:N8:69:TRP:HB2	1.98	0.44
31:O0:76:GLU:N	31:O0:76:GLU:OE1	2.51	0.44
35:O4:20:ILE:HD11	35:O4:34:HIS:CE1	2.53	0.44
36:O5:89:ARG:HG2	36:O5:89:ARG:HH11	1.81	0.44
39:O8:8:ILE:O	39:O8:12:LEU:HG	2.17	0.44
42:Q1:1:MET:HE2	42:Q1:1:MET:HB2	1.82	0.44
44:Q3:3:LYS:HE2	44:Q3:3:LYS:HB3	1.79	0.44
44:Q3:35:ALA:HB3	44:Q3:37:TYR:CE2	2.52	0.44
45:2:262:U:H2'	45:2:263:C:H6	1.83	0.44
45:2:648:G:C4	45:2:687:G:N2	2.86	0.44
45:2:735:C:H2'	45:2:735:C:OP2	2.18	0.44
45:2:936:G:O6	72:D6:15:ARG:NH1	2.50	0.44
45:2:1157:A:O2'	45:2:1158:C:OP1	2.29	0.44
45:2:1248:C:H2'	45:2:1249:U:C6	2.52	0.44
45:2:1427:A:O2'	45:2:1428:G:OP1	2.34	0.44
45:2:1529:C:H2'	45:2:1530:C:C6	2.52	0.44
45:2:1562:G:H2'	45:2:1563:C:C6	2.52	0.44
48:S2:143:TYR:HB3	48:S2:146:THR:O	2.17	0.44
51:S5:49:GLU:O	51:S5:51:VAL:HG12	2.18	0.44
55:S9:127:VAL:O	55:S9:131:GLN:HB2	2.18	0.44
62:C6:11:GLY:HA2	62:C6:83:GLN:HG2	1.99	0.44
70:D4:25:VAL:HG12	70:D4:27:VAL:HG23	1.99	0.44
72:D6:32:LYS:O	72:D6:37:LYS:NZ	2.27	0.44
76:E0:15:LYS:O	76:E0:15:LYS:HG3	2.16	0.44
78:SR:179:LYS:HG2	78:SR:191:ASP:OD1	2.18	0.44
1:5:5:G:C6	3:8:155:A:C2	3.06	0.44
1:5:730:C:H2'	1:5:731:U:C6	2.53	0.44
1:5:816:A:C8	1:5:906:A:C6	3.05	0.44
1:5:980:A:H2	1:5:1104:G:H21	1.65	0.44
1:5:1280:C:C2	1:5:1281:G:C8	3.05	0.44
1:5:1657:C:O2'	1:5:1797:A:OP2	2.31	0.44
1:5:1761:C:O2'	1:5:1762:C:H5''	2.17	0.44
1:5:2584:G:H3'	1:5:2585:G:H4'	2.00	0.44
1:5:3081:C:H2'	1:5:3082:C:H6	1.83	0.44
1:5:3221:C:H2'	1:5:3222:U:O4'	2.18	0.44
3:8:6:U:H2'	3:8:7:U:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:8:15:G:C6	3:8:16:G:N1	2.86	0.44
5:l3:19:ARG:HB3	5:l3:232:ARG:HH12	1.81	0.44
5:l3:292:ALA:HB1	5:l3:295:ALA:HB3	1.99	0.44
7:l5:270:LYS:O	7:l5:273:ARG:N	2.32	0.44
9:l7:102:VAL:HG21	9:l7:129:LEU:HD13	1.98	0.44
12:m0:215:GLU:CD	12:m0:215:GLU:H	2.26	0.44
21:n0:14:LEU:HD21	22:n1:136:ARG:CZ	2.48	0.44
23:n2:59:ASP:OD1	23:n2:60:GLY:N	2.51	0.44
43:q2:28:TYR:C	43:q2:28:TYR:CD1	2.96	0.44
45:6:406:U:OP1	52:s6:93:LYS:HD3	2.17	0.44
45:6:896:U:C4	45:6:897:C:N4	2.86	0.44
45:6:1051:G:H4'	45:6:1052:U:OP2	2.18	0.44
45:6:1559:A:N3	64:c8:134:ARG:HB3	2.31	0.44
46:s0:90:ALA:HA	46:s0:95:ALA:CB	2.47	0.44
48:s2:140:ARG:CZ	67:d1:1:MET:HE2	2.48	0.44
52:s6:3:LEU:HD21	52:s6:27:PHE:CE2	2.53	0.44
54:s8:82:VAL:H	54:s8:101:ILE:CG2	2.31	0.44
56:c0:50:THR:HG22	56:c0:55:VAL:HG22	1.99	0.44
64:c8:11:PHE:CE1	64:c8:59:GLY:HA3	2.52	0.44
68:d2:74:VAL:O	68:d2:75:ILE:HD13	2.18	0.44
79:sM:49:LYS:HB2	79:sM:49:LYS:HE3	1.81	0.44
79:sM:51:ARG:HB3	79:sM:51:ARG:CZ	2.48	0.44
1:1:155:G:O2'	37:O6:27:SER:HB3	2.18	0.44
1:1:338:A:H4'	6:L4:197:ARG:NH1	2.32	0.44
1:1:392:G:O2'	27:N6:90:VAL:HG11	2.18	0.44
1:1:655:C:H2'	1:1:656:A:H8	1.81	0.44
1:1:660:A:C2	1:1:1435:A:C2	3.06	0.44
1:1:677:A:N7	1:1:785:G:O2'	2.35	0.44
1:1:1027:A:C4	1:1:1029:G:H1'	2.52	0.44
1:1:1131:G:C4	1:1:2373:A:C2	3.06	0.44
1:1:1212:A:OP1	11:L9:1:MET:HB3	2.18	0.44
1:1:1668:G:H2'	1:1:1669:C:H6	1.82	0.44
1:1:2205:U:H3'	1:1:2206:G:O4'	2.17	0.44
1:1:2689:A:N3	1:1:2689:A:H2'	2.32	0.44
1:1:2718:U:H2'	1:1:2719:U:C6	2.52	0.44
1:1:3387:U:H2'	1:1:3388:C:H6	1.81	0.44
2:3:28:C:OP1	13:M1:137:ARG:NH1	2.51	0.44
3:4:41:A:HO2'	38:O7:59:THR:HG22	1.81	0.44
12:M0:66:GLU:CD	12:M0:69:ARG:NH2	2.75	0.44
14:M3:42:ARG:NH1	14:M3:51:LEU:O	2.50	0.44
22:N1:8:ARG:O	22:N1:11:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:N1:14:MET:HE2	22:N1:14:MET:HB3	1.83	0.44
29:N8:47:LYS:HG3	29:N8:48:TYR:CD2	2.52	0.44
35:O4:74:ARG:NH1	35:O4:82:ALA:HB2	2.33	0.44
37:O6:25:LYS:HB2	37:O6:28:TYR:CD2	2.52	0.44
39:O8:7:ASP:HB3	39:O8:10:GLN:HB3	1.99	0.44
44:Q3:73:THR:HG23	44:Q3:76:ALA:H	1.83	0.44
45:2:211:U:H5''	57:C1:20:PHE:CD1	2.53	0.44
45:2:514:G:N2	45:2:543:C:H5	2.12	0.44
45:2:778:G:N7	45:2:780:A:H5'	2.33	0.44
45:2:1477:G:OP1	65:C9:44:GLU:N	2.48	0.44
45:2:1499:G:C2	45:2:1500:C:C2	3.06	0.44
47:S1:35:PRO:HG3	47:S1:98:THR:O	2.17	0.44
47:S1:60:ALA:HB3	47:S1:61:LEU:HD13	1.99	0.44
50:S4:12:LEU:HD23	50:S4:12:LEU:HA	1.60	0.44
50:S4:57:ASN:O	50:S4:61:VAL:HG23	2.17	0.44
55:S9:159:ALA:O	55:S9:165:GLY:HA3	2.17	0.44
56:C0:50:THR:HG22	56:C0:55:VAL:HG13	2.00	0.44
57:C1:135:VAL:C	57:C1:136:ARG:HH11	2.25	0.44
58:C2:61:VAL:HA	58:C2:89:ILE:HG22	1.99	0.44
61:C5:12:PHE:CG	61:C5:13:LYS:N	2.86	0.44
63:C7:17:ILE:HD12	63:C7:57:LEU:HB2	1.99	0.44
63:C7:33:ARG:NH2	78:SR:109:ASP:OD1	2.50	0.44
66:D0:32:LYS:O	66:D0:36:ASN:HB2	2.18	0.44
68:D2:66:ASN:CG	68:D2:68:ARG:HG3	2.43	0.44
69:D3:133:LEU:HD22	69:D3:137:LYS:HE2	1.99	0.44
78:SR:11:GLY:H	78:SR:312:VAL:HG23	1.83	0.44
78:SR:183:LEU:HD22	78:SR:186:PHE:CE1	2.53	0.44
1:5:32:U:H6	1:5:32:U:O5'	2.01	0.44
1:5:56:G:H2'	1:5:57:A:H5''	1.98	0.44
1:5:136:G:H5'	36:o5:95:PHE:CG	2.53	0.44
1:5:342:A:C6	1:5:349:A:C8	3.06	0.44
1:5:343:U:O2	1:5:1439:U:H1'	2.17	0.44
1:5:2942:C:H1'	85:5:4177:LLL:H312	1.99	0.44
3:8:35:C:H5'	38:o7:70:VAL:HG11	2.00	0.44
3:8:45:C:OP1	40:o9:12:LYS:HE3	2.17	0.44
3:8:49:G:O2'	36:o5:40:SER:HA	2.18	0.44
6:l4:136:LEU:HA	6:l4:136:LEU:HD23	1.73	0.44
6:l4:328:ASN:C	6:l4:329:PRO:O	2.59	0.44
7:l5:111:GLN:CA	7:l5:116:ASP:HB3	2.44	0.44
9:l7:229:PHE:C	9:l7:229:PHE:HD1	2.26	0.44
12:m0:60:LEU:HD11	12:m0:135:ILE:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m0:99:ILE:HG23	12:m0:123:HIS:HB2	2.00	0.44
80:m2:54:UNK:HA	80:m2:55:UNK:HA	1.80	0.44
14:m3:119:TYR:O	14:m3:123:ILE:HG23	2.17	0.44
27:n6:120:GLN:HE22	27:n6:126:LEU:HA	1.82	0.44
32:o1:72:ARG:NH2	32:o1:105:GLN:O	2.47	0.44
33:o2:104:ASN:O	33:o2:108:ILE:HG13	2.18	0.44
38:o7:28:HIS:CE1	38:o7:30:GLN:HB2	2.53	0.44
44:q3:29:LEU:O	44:q3:33:GLN:HG2	2.17	0.44
45:6:23:G:C2	45:6:603:U:O2	2.70	0.44
45:6:221:A:H8	45:6:832:U:O2	2.01	0.44
45:6:413:U:H2'	45:6:414:C:H6	1.83	0.44
45:6:739:G:H2'	45:6:740:A:H8	1.81	0.44
47:s1:164:ILE:HG21	47:s1:207:LEU:HD11	2.00	0.44
49:s3:209:ILE:HD12	49:s3:210:GLU:H	1.82	0.44
50:s4:184:THR:O	50:s4:189:LEU:HD13	2.17	0.44
62:c6:6:SER:HA	62:c6:23:LYS:HA	1.99	0.44
63:c7:104:ASN:O	63:c7:106:THR:HG23	2.17	0.44
68:d2:32:LYS:O	68:d2:36:LYS:HB2	2.18	0.44
78:sR:218:GLY:HA2	78:sR:240:VAL:HG23	1.99	0.44
1:1:61:A:H2'	1:1:62:A:O4'	2.18	0.44
1:1:264:G:H5''	37:O6:36:ARG:NH1	2.33	0.44
1:1:379:C:H2'	1:1:380:U:H6	1.83	0.44
1:1:501:A:H5''	8:L6:28:GLN:NE2	2.33	0.44
1:1:612:U:H2'	1:1:613:G:C8	2.52	0.44
1:1:677:A:C8	1:1:786:A:C6	3.06	0.44
1:1:1422:G:C6	1:1:1423:C:C4	3.06	0.44
1:1:1836:C:N4	40:O9:3:ALA:HB2	2.33	0.44
1:1:2197:C:N4	1:1:2241:U:H2'	2.33	0.44
1:1:2570:U:H4'	1:1:2571:U:OP2	2.16	0.44
1:1:2768:U:H1'	43:Q2:28:TYR:HE1	1.83	0.44
1:1:3122:A:N1	11:L9:70:THR:HG21	2.32	0.44
1:1:3201:C:H2'	1:1:3202:G:H8	1.83	0.44
2:3:92:A:H4'	12:M0:11:TYR:CD1	2.53	0.44
5:L3:6:TYR:HB2	24:N3:46:LEU:HD11	1.99	0.44
9:L7:110:ARG:NH2	19:M8:3:ILE:HG23	2.33	0.44
11:L9:129:ARG:O	11:L9:132:VAL:HG22	2.18	0.44
12:M0:156:ARG:NH1	12:M0:163:GLN:O	2.51	0.44
16:M5:112:ASN:ND2	16:M5:113:LEU:HD22	2.32	0.44
18:M7:14:SER:HB3	18:M7:151:THR:OG1	2.18	0.44
18:M7:129:THR:HG22	18:M7:130:TYR:H	1.83	0.44
23:N2:14:THR:HA	23:N2:65:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:N2:34:ALA:O	23:N2:38:ILE:HG13	2.17	0.44
45:2:2:A:OP2	45:2:2:A:H8	2.00	0.44
45:2:94:U:H2'	45:2:95:G:O4'	2.17	0.44
45:2:102:U:H3'	45:2:360:A:H61	1.83	0.44
45:2:361:C:N3	45:2:384:G:C2	2.86	0.44
45:2:463:U:H2'	45:2:464:A:C8	2.52	0.44
45:2:567:A:N3	76:E0:14:VAL:HG21	2.33	0.44
45:2:887:A:H2'	45:2:888:U:C6	2.53	0.44
45:2:1146:G:N3	45:2:1635:A:H2	2.15	0.44
45:2:1402:G:H2'	45:2:1403:C:C6	2.53	0.44
45:2:1411:A:OP1	62:C6:118:ILE:HD11	2.17	0.44
46:S0:147:THR:HG21	46:S0:159:ALA:HB1	1.99	0.44
47:S1:70:LEU:CD1	47:S1:79:HIS:HB3	2.48	0.44
47:S1:131:ASP:OD1	47:S1:132:ASP:N	2.50	0.44
67:D1:55:LEU:HD23	67:D1:55:LEU:HA	1.77	0.44
72:D6:10:ARG:NH1	72:D6:36:ILE:H	2.16	0.44
75:D9:40:ARG:NE	75:D9:41:GLN:OE1	2.50	0.44
1:5:156:G:O2'	1:5:157:A:H4'	2.18	0.44
1:5:2258:U:H2'	1:5:2259:A:O4'	2.18	0.44
1:5:2642:A:C2	1:5:2643:A:C5	3.05	0.44
1:5:3342:A:H2'	1:5:3343:G:C8	2.52	0.44
4:l2:246:LEU:HD23	4:l2:246:LEU:HA	1.77	0.44
5:l3:73:VAL:HG13	24:n3:89:ASP:O	2.18	0.44
8:l6:41:ILE:HB	8:l6:85:ILE:HB	1.99	0.44
10:l8:68:ARG:NE	10:l8:237:ILE:O	2.50	0.44
14:m3:123:ILE:HG22	36:o5:118:ILE:HG12	2.00	0.44
33:o2:3:SER:HB3	33:o2:71:HIS:CE1	2.52	0.44
45:6:30:G:H2'	45:6:31:C:C6	2.53	0.44
45:6:137:U:H4'	45:6:1706:C:O2'	2.18	0.44
45:6:560:U:H2'	45:6:561:G:C8	2.53	0.44
45:6:964:U:OP1	59:c3:128:TYR:OH	2.34	0.44
45:6:1000:C:H5	45:6:1002:G:H3'	1.81	0.44
45:6:1287:A:H4'	45:6:1288:G:H5'	2.00	0.44
45:6:1330:G:H2'	45:6:1331:A:O4'	2.18	0.44
45:6:1344:A:H2'	45:6:1345:A:C8	2.53	0.44
48:s2:243:TYR:O	48:s2:246:GLU:N	2.51	0.44
49:s3:11:LEU:HD12	66:d0:86:ILE:HG12	2.00	0.44
54:s8:93:THR:OG1	54:s8:95:THR:OG1	2.36	0.44
54:s8:165:LEU:HD23	54:s8:165:LEU:HA	1.74	0.44
59:c3:50:ILE:O	59:c3:53:LEU:N	2.51	0.44
65:c9:57:ARG:O	65:c9:61:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:c9:105:LEU:HA	65:c9:105:LEU:HD23	1.65	0.44
66:d0:13:GLU:O	66:d0:14:GLN:HG3	2.17	0.44
69:d3:135:LEU:HA	69:d3:135:LEU:HD23	1.71	0.44
72:d6:18:VAL:HG21	72:d6:33:ASP:HB3	2.00	0.44
74:d8:15:VAL:HA	74:d8:28:VAL:HG23	1.99	0.44
77:e1:127:GLY:HA2	77:e1:130:VAL:HG12	2.00	0.44
78:sR:108:SER:OG	78:sR:109:ASP:N	2.51	0.44
78:sR:234:LEU:HD23	78:sR:263:PHE:CD1	2.53	0.44
78:sR:248:ASN:OD1	78:sR:249:ARG:HG2	2.18	0.44
79:sM:106:VAL:O	79:sM:110:TRP:HB2	2.17	0.44
1:1:84:U:O2'	1:1:101:G:O6	2.26	0.44
1:1:364:G:OP2	38:O7:52:LYS:NZ	2.46	0.44
1:1:656:A:C6	1:1:657:A:C6	3.06	0.44
1:1:707:U:H4'	1:1:779:G:N3	2.33	0.44
1:1:1195:A:O2'	1:1:1320:C:OP1	2.31	0.44
1:1:1278:A:O2'	1:1:1279:C:O5'	2.35	0.44
1:1:1499:C:H2'	1:1:1500:G:O4'	2.18	0.44
1:1:1661:G:H2'	1:1:1662:G:C8	2.53	0.44
1:1:1765:U:O3'	1:1:1766:G:H8	2.00	0.44
1:1:1783:U:H2'	1:1:1784:G:C8	2.53	0.44
1:1:1836:C:H42	40:O9:3:ALA:HB2	1.83	0.44
1:1:1951:C:N4	1:1:2095:G:H1	2.09	0.44
1:1:2660:G:H1'	1:1:2744:U:H1'	2.00	0.44
1:1:3170:A:C6	1:1:3171:U:C4	3.06	0.44
3:4:137:C:H5'	26:N5:42:ARG:HH12	1.83	0.44
4:L2:241:ARG:HB3	4:L2:241:ARG:HH11	1.82	0.44
5:L3:7:GLU:O	24:N3:46:LEU:HD12	2.18	0.44
7:L5:211:LEU:HD12	7:L5:223:PHE:HE1	1.83	0.44
7:L5:259:LYS:O	7:L5:265:TYR:OH	2.27	0.44
12:M0:71:CYS:SG	12:M0:72:ALA:N	2.90	0.44
14:M3:64:LYS:HG3	29:N8:69:TRP:CG	2.52	0.44
26:N5:100:LYS:HZ2	26:N5:107:VAL:H	1.66	0.44
31:O0:32:LYS:HG3	31:O0:35:ARG:NH2	2.33	0.44
32:O1:16:LEU:HA	32:O1:16:LEU:HD12	1.77	0.44
45:2:7:G:H4'	45:2:573:C:H4'	2.00	0.44
45:2:878:G:O2'	59:C3:108:ASP:OD2	2.29	0.44
45:2:957:G:H1'	73:D7:68:GLY:O	2.18	0.44
45:2:990:C:H2'	45:2:991:G:O4'	2.18	0.44
45:2:1247:U:OP1	77:E1:94:LYS:HG2	2.17	0.44
45:2:1317:C:O2'	45:2:1400:A:N3	2.45	0.44
45:2:1590:G:H2'	45:2:1591:C:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:S6:76:LEU:HD23	52:S6:76:LEU:HA	1.79	0.44
52:S6:139:ASN:N	52:S6:139:ASN:OD1	2.50	0.44
59:C3:113:PHE:HA	59:C3:116:ILE:HD12	2.00	0.44
61:C5:18:ARG:O	61:C5:20:VAL:HG23	2.18	0.44
65:C9:40:SER:HB3	65:C9:43:ASN:HB2	2.00	0.44
72:D6:23:CYS:HB2	72:D6:74:CYS:HB3	1.98	0.44
78:SR:33:LEU:O	78:SR:44:SER:HA	2.18	0.44
1:5:505:G:H4'	6:14:313:LEU:HD11	2.00	0.44
1:5:987:U:OP1	9:17:125:GLU:HG3	2.18	0.44
1:5:1033:U:H2'	1:5:1034:U:H5'	1.99	0.44
1:5:1880:U:H2'	1:5:1881:A:H8	1.81	0.44
1:5:2201:G:N2	4:12:224:THR:HG21	2.22	0.44
1:5:2538:U:H2'	1:5:2539:C:H5''	1.99	0.44
1:5:2653:C:P	43:q2:89:LYS:HG3	2.58	0.44
1:5:3048:A:C8	1:5:3090:U:O4	2.71	0.44
3:8:102:U:H2'	3:8:103:G:C8	2.52	0.44
5:13:19:ARG:O	5:13:273:HIS:HE1	2.01	0.44
5:13:39:LYS:HB3	5:13:40:PRO:HD2	2.00	0.44
5:13:283:TYR:CB	5:13:323:MET:HE3	2.48	0.44
6:14:74:ILE:HD13	6:14:93:MET:CE	2.48	0.44
6:14:150:LEU:HD23	6:14:150:LEU:HA	1.79	0.44
6:14:178:LEU:O	6:14:182:LEU:HD23	2.18	0.44
7:15:271:LYS:HA	7:15:271:LYS:HD3	1.78	0.44
10:18:34:PHE:H	10:18:39:ALA:CB	2.31	0.44
11:19:137:SER:CB	11:19:143:GLU:HG2	2.48	0.44
18:m7:22:LEU:HB3	18:m7:90:PHE:CE2	2.52	0.44
19:m8:178:ARG:HD2	19:m8:178:ARG:HA	1.71	0.44
33:o2:40:SER:O	33:o2:44:ARG:HG3	2.18	0.44
35:o4:8:ARG:NH2	35:o4:31:ARG:HH11	2.16	0.44
41:q0:113:ARG:HG3	41:q0:114:LYS:N	2.31	0.44
45:6:93:A:H1'	50:s4:3:ARG:O	2.18	0.44
45:6:731:C:N4	45:6:732:G:C6	2.86	0.44
45:6:749:U:H2'	45:6:750:U:C6	2.53	0.44
45:6:781:U:H4'	45:6:782:U:O2	2.18	0.44
45:6:926:A:H2'	45:6:927:C:C6	2.53	0.44
45:6:955:A:H5''	59:c3:10:GLY:HA3	2.00	0.44
45:6:1013:A:OP1	85:6:2168:LLL:H611	2.18	0.44
45:6:1390:U:O2'	45:6:1391:A:C8	2.71	0.44
49:s3:79:TYR:CD1	49:s3:84:ILE:HB	2.52	0.44
51:s5:58:LEU:HD11	51:s5:167:ARG:HH12	1.83	0.44
61:c5:57:MET:SD	61:c5:60:LEU:HD12	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:d2:111:MET:HE2	68:d2:111:MET:HB3	1.93	0.44
78:sR:220:ILE:HG23	78:sR:243:LEU:HD11	1.99	0.44
79:sM:84:LYS:HD3	79:sM:85:SER:N	2.33	0.44
1:1:810:A:H2'	1:1:811:U:C6	2.53	0.43
1:1:865:U:C5	1:1:866:A:N7	2.85	0.43
1:1:1213:G:H5''	1:1:1213:G:H8	1.83	0.43
1:1:1733:G:H2'	1:1:1734:G:H8	1.83	0.43
1:1:1875:G:OP2	20:M9:20:ARG:HD2	2.18	0.43
85:1:3999:LLL:H11	85:1:3999:LLL:H612	1.79	0.43
8:L6:145:LEU:O	8:L6:148:GLU:N	2.50	0.43
9:L7:185:ILE:O	9:L7:189:ILE:HG22	2.18	0.43
9:L7:187:GLU:OE1	9:L7:194:HIS:HB2	2.18	0.43
12:M0:166:ILE:HG21	22:N1:158:THR:HG21	2.00	0.43
16:M5:19:LEU:HA	16:M5:22:LEU:HD23	2.00	0.43
22:N1:72:VAL:HG23	22:N1:74:VAL:HG23	1.99	0.43
23:N2:43:VAL:HG21	23:N2:50:LEU:HA	1.99	0.43
32:O1:31:ARG:HB3	32:O1:31:ARG:NH1	2.32	0.43
45:2:168:A:H4'	52:S6:136:LYS:HD3	1.98	0.43
45:2:231:U:O2'	45:2:232:U:H5''	2.18	0.43
45:2:329:G:H2'	45:2:330:G:C8	2.51	0.43
45:2:395:U:H2'	45:2:396:G:O4'	2.18	0.43
45:2:1087:A:H5'	45:2:1298:U:O4	2.18	0.43
45:2:1282:U:H2'	45:2:1283:U:H6	1.82	0.43
45:2:1323:C:H2'	45:2:1324:G:O4'	2.18	0.43
46:S0:71:GLU:O	46:S0:96:THR:HG22	2.17	0.43
46:S0:74:VAL:HG12	46:S0:76:ILE:HG13	2.00	0.43
46:S0:185:ARG:CG	67:D1:47:PRO:HD3	2.47	0.43
50:S4:197:HIS:HB3	50:S4:209:HIS:CD2	2.39	0.43
51:S5:216:GLU:HA	51:S5:219:ARG:HB3	2.00	0.43
53:S7:111:LYS:HD3	53:S7:112:ARG:N	2.27	0.43
56:C0:49:LEU:HA	56:C0:52:LYS:HD3	1.99	0.43
63:C7:104:ASN:O	63:C7:107:SER:OG	2.35	0.43
64:C8:99:HIS:HD2	64:C8:101:LEU:HD21	1.83	0.43
66:D0:118:VAL:HG22	66:D0:119:ALA:N	2.31	0.43
70:D4:62:THR:HA	70:D4:69:SER:HA	2.00	0.43
71:D5:70:LYS:HA	71:D5:70:LYS:HD3	1.70	0.43
1:5:171:G:C6	1:5:172:G:C8	3.06	0.43
1:5:283:G:N9	29:n8:61:PHE:HE1	2.17	0.43
1:5:740:G:C6	1:5:741:U:C4	3.06	0.43
1:5:1793:C:O2	4:l2:188:LYS:HE2	2.18	0.43
1:5:2093:A:H8	20:m9:143:ILE:HD11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:2256:A:N3	1:5:2256:A:C2'	2.81	0.43
1:5:2728:G:C6	22:n1:80:VAL:HG11	2.54	0.43
1:5:2771:U:H2'	1:5:2772:C:C6	2.53	0.43
6:l4:100:PHE:CE2	6:l4:101:ALA:HB2	2.53	0.43
7:l5:237:GLU:O	7:l5:241:THR:OG1	2.28	0.43
10:l8:28:HIS:NE2	28:n7:128:GLN:OE1	2.51	0.43
10:l8:53:PRO:HB2	10:l8:55:TYR:CE2	2.52	0.43
10:l8:230:LYS:HE3	10:l8:230:LYS:HB2	1.72	0.43
80:m2:77:UNK:O	80:m2:81:UNK:N	2.50	0.43
14:m3:85:LEU:CD2	14:m3:90:ALA:HB2	2.48	0.43
24:n3:120:LYS:H	24:n3:137:VAL:HG22	1.83	0.43
27:n6:54:ASP:O	27:n6:69:LYS:HA	2.18	0.43
27:n6:59:VAL:HG22	27:n6:103:LYS:O	2.17	0.43
31:o0:22:LYS:HB2	31:o0:94:GLU:HB2	1.98	0.43
32:o1:8:VAL:HG12	32:o1:9:THR:N	2.32	0.43
36:o5:26:LYS:HE2	36:o5:26:LYS:HB3	1.91	0.43
43:q2:23:HIS:HA	43:q2:73:GLU:O	2.18	0.43
45:6:228:G:H2'	45:6:229:U:O4'	2.18	0.43
45:6:333:A:P	54:s8:48:THR:HB	2.58	0.43
45:6:883:C:H1'	45:6:946:U:O2	2.18	0.43
45:6:1280:C:H5'	75:d9:44:ARG:HH22	1.83	0.43
45:6:1499:G:OP1	65:c9:122:ARG:NH1	2.46	0.43
45:6:1722:A:H5''	52:s6:75:LEU:HD22	1.99	0.43
46:s0:124:THR:CG2	46:s0:174:TRP:HE1	2.31	0.43
47:s1:101:HIS:HA	47:s1:217:LEU:HD22	2.00	0.43
47:s1:194:ASN:OD1	47:s1:194:ASN:N	2.51	0.43
50:s4:42:LEU:HB2	50:s4:109:PHE:CD2	2.53	0.43
55:s9:64:GLU:HA	55:s9:69:ARG:HD3	2.00	0.43
56:c0:52:LYS:HD3	56:c0:54:TYR:CE1	2.52	0.43
69:d3:68:ILE:HB	69:d3:70:LYS:NZ	2.33	0.43
72:d6:30:ILE:HG13	72:d6:31:PRO:CD	2.48	0.43
1:1:83:U:H2'	1:1:84:U:O4'	2.18	0.43
1:1:110:G:OP2	14:M3:73:ARG:NH1	2.50	0.43
1:1:240:U:H4'	1:1:241:G:OP1	2.18	0.43
1:1:304:G:C2	29:N8:62:HIS:CD2	3.06	0.43
1:1:500:C:H2'	1:1:501:A:H8	1.81	0.43
1:1:713:U:OP2	14:M3:174:ARG:NH2	2.51	0.43
1:1:2775:U:H2'	1:1:2776:C:H6	1.81	0.43
1:1:3353:G:O2'	1:1:3356:G:OP2	2.23	0.43
87:1:4342:HOH:O	17:M6:25:LYS:HE3	2.18	0.43
3:4:135:G:H5''	26:N5:49:LYS:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:261:VAL:HG23	6:L4:262:TRP:CD1	2.53	0.43
6:L4:359:LEU:HA	21:N0:8:GLN:OE1	2.18	0.43
11:L9:67:ALA:O	11:L9:71:VAL:HG23	2.18	0.43
12:M0:49:CYS:HA	12:M0:138:VAL:O	2.18	0.43
12:M0:161:GLY:O	12:M0:163:GLN:NE2	2.52	0.43
18:M7:51:VAL:CG1	18:M7:88:VAL:HG21	2.47	0.43
19:M8:23:ASN:ND2	19:M8:26:LEU:HB2	2.32	0.43
45:2:817:A:O4'	53:S7:110:GLN:NE2	2.50	0.43
45:2:1207:C:H42	45:2:1456:C:N4	2.03	0.43
45:2:1263:G:C2	45:2:1264:G:H1'	2.53	0.43
45:2:1471:A:N6	45:2:1472:C:H41	2.15	0.43
47:S1:84:ILE:HG22	47:S1:86:LEU:HD22	1.99	0.43
52:S6:185:GLN:HA	52:S6:188:ARG:NH1	2.33	0.43
53:S7:30:SER:HB2	53:S7:34:LEU:HB2	1.99	0.43
53:S7:71:HIS:CG	53:S7:131:PHE:CE1	3.06	0.43
68:D2:65:LEU:HD23	68:D2:65:LEU:H	1.84	0.43
73:D7:49:HIS:HA	73:D7:70:LYS:HA	1.99	0.43
74:D8:19:THR:CG2	74:D8:27:GLN:HE21	2.32	0.43
77:E1:123:ASN:CG	77:E1:124:PRO:HD2	2.43	0.43
1:5:30:G:P	16:m5:172:ARG:HD2	2.58	0.43
1:5:283:G:OP2	43:q2:45:ARG:NH2	2.31	0.43
1:5:1461:A:H2'	1:5:1462:A:O4'	2.18	0.43
1:5:1501:U:H3	1:5:1515:A:H61	1.67	0.43
1:5:1704:A:O2'	1:5:1705:U:H5''	2.18	0.43
1:5:2438:A:H5'	1:5:2439:A:OP2	2.17	0.43
1:5:2922:G:N7	85:5:4175:LLL:H833	2.33	0.43
1:5:3073:A:H2'	1:5:3074:G:O4'	2.18	0.43
2:7:106:U:H2'	2:7:107:C:O4'	2.19	0.43
5:l3:211:GLN:NE2	5:l3:284:ARG:HA	2.28	0.43
7:l5:43:LYS:O	7:l5:46:THR:HB	2.18	0.43
9:l7:191:VAL:HA	9:l7:195:PHE:CD2	2.53	0.43
9:l7:223:PHE:CD1	9:l7:232:ARG:HB2	2.53	0.43
80:m2:120:UNK:O	80:m2:121:UNK:C	2.66	0.43
20:m9:41:ILE:O	20:m9:45:VAL:HG23	2.18	0.43
20:m9:163:ARG:O	20:m9:166:ASN:N	2.51	0.43
21:n0:137:ARG:HG2	21:n0:139:TYR:OH	2.18	0.43
81:n4:47:ARG:O	81:n4:55:PHE:HD2	2.01	0.43
26:n5:108:LEU:HD23	26:n5:127:THR:HG22	2.00	0.43
82:p0:60:ARG:HH12	82:p0:81:LYS:NZ	2.16	0.43
43:q2:4:VAL:O	43:q2:93:LEU:HA	2.17	0.43
45:6:520:A:OP2	45:6:520:A:H8	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1163:A:N6	45:6:1164:G:C6	2.86	0.43
45:6:1333:C:H2'	45:6:1334:U:C6	2.53	0.43
46:s0:26:ALA:HB2	46:s0:148:ASP:CG	2.43	0.43
46:s0:162:CYS:HB3	46:s0:173:ILE:HG13	2.00	0.43
49:s3:33:GLY:HA3	49:s3:53:THR:CG2	2.48	0.43
50:s4:170:THR:O	50:s4:170:THR:OG1	2.36	0.43
50:s4:244:ILE:HD12	50:s4:244:ILE:HA	1.75	0.43
51:s5:94:THR:HG22	51:s5:114:ILE:CG1	2.34	0.43
54:s8:67:TRP:HA	54:s8:183:ILE:CG2	2.48	0.43
55:s9:40:LYS:HB2	55:s9:40:LYS:HE3	1.92	0.43
58:c2:119:SER:OG	58:c2:120:VAL:N	2.51	0.43
63:c7:77:GLU:HG2	63:c7:80:ARG:NH2	2.33	0.43
64:c8:116:LEU:HA	64:c8:119:ILE:HG22	1.99	0.43
76:e0:46:ASN:OD1	76:e0:48:THR:HG23	2.19	0.43
78:sR:109:ASP:HB2	78:sR:127:ARG:HD2	2.00	0.43
78:sR:204:ALA:HA	78:sR:210:LEU:O	2.19	0.43
1:1:31:C:H2'	1:1:32:U:O4'	2.18	0.43
1:1:386:A:H2'	1:1:387:A:O4'	2.18	0.43
1:1:645:A:H4'	1:1:647:A:H62	1.83	0.43
1:1:659:G:H8	1:1:659:G:O5'	2.01	0.43
1:1:1115:G:P	87:1:4252:HOH:O	2.77	0.43
1:1:1325:U:H2'	1:1:1326:A:C8	2.52	0.43
1:1:3276:G:H1'	1:1:3277:U:H3	1.83	0.43
1:1:3295:A:C6	1:1:3296:A:C6	3.07	0.43
3:4:58:G:N7	38:O7:63:ARG:NH1	2.49	0.43
3:4:157:U:H2'	3:4:158:U:H5'	2.00	0.43
4:L2:103:PRO:HA	4:L2:163:ARG:HA	1.99	0.43
5:L3:37:ARG:HA	5:L3:186:GLY:HA2	2.00	0.43
15:M4:25:LYS:HE3	15:M4:62:GLN:HG2	1.99	0.43
22:N1:14:MET:HE3	22:N1:15:PHE:CE2	2.53	0.43
26:N5:60:TYR:CE2	26:N5:102:LEU:HD21	2.53	0.43
26:N5:117:ASN:O	40:O9:18:LYS:NZ	2.40	0.43
28:N7:121:ARG:HD2	28:N7:126:LYS:HE3	1.99	0.43
37:O6:43:LEU:CD1	37:O6:47:ILE:HD11	2.48	0.43
38:O7:58:THR:O	38:O7:61:THR:HG23	2.18	0.43
44:Q3:73:THR:HG22	44:Q3:76:ALA:HB2	1.99	0.43
45:2:380:U:O2	45:2:380:U:H2'	2.18	0.43
45:2:688:G:C2	45:2:689:G:C5	3.07	0.43
45:2:834:G:N2	45:2:835:U:H1'	2.33	0.43
45:2:863:A:H4'	68:D2:57:ARG:HG2	1.99	0.43
45:2:927:C:H1'	60:C4:125:SER:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1529:C:OP1	51:S5:112:ARG:NH1	2.50	0.43
46:S0:8:ASP:OD1	46:S0:8:ASP:N	2.51	0.43
47:S1:184:LEU:HD23	47:S1:184:LEU:HA	1.89	0.43
47:S1:223:PHE:CE2	47:S1:228:LEU:HD13	2.51	0.43
48:S2:148:LEU:HB3	48:S2:174:ARG:HH22	1.83	0.43
51:S5:57:SER:HA	74:D8:53:ILE:HD12	2.00	0.43
51:S5:174:LEU:HD21	51:S5:213:LYS:HB2	2.00	0.43
53:S7:160:GLN:NE2	53:S7:160:GLN:H	2.16	0.43
54:S8:188:GLU:HG2	57:C1:13:PHE:CE2	2.54	0.43
55:S9:15:PRO:HD3	55:S9:43:TYR:CE1	2.54	0.43
55:S9:28:LEU:O	55:S9:32:GLY:N	2.50	0.43
55:S9:141:VAL:HG11	55:S9:146:PHE:CE2	2.52	0.43
62:C6:83:GLN:HE22	62:C6:119:ALA:HA	1.82	0.43
70:D4:57:VAL:HG22	70:D4:60:PHE:HE2	1.82	0.43
72:D6:7:SER:O	72:D6:7:SER:OG	2.35	0.43
78:SR:141:LEU:HD12	78:SR:142:ALA:H	1.84	0.43
1:5:255:A:H2'	1:5:256:G:C8	2.53	0.43
1:5:521:A:C8	1:5:572:A:C6	3.06	0.43
1:5:953:G:H1'	1:5:1115:G:H5''	1.99	0.43
1:5:1121:U:C4	1:5:1122:U:C4	3.06	0.43
1:5:1875:G:H2'	1:5:1876:U:H6	1.83	0.43
1:5:2552:C:H2'	31:o0:50:VAL:HG11	1.99	0.43
1:5:2712:U:O2'	1:5:2743:A:O2'	2.24	0.43
1:5:2733:A:H2'	1:5:2734:A:O4'	2.18	0.43
1:5:2775:U:H2'	1:5:2776:C:H6	1.83	0.43
1:5:2777:G:H5''	1:5:2779:A:OP2	2.17	0.43
5:l3:320:ASP:OD1	5:l3:320:ASP:N	2.50	0.43
6:l4:181:VAL:HG11	6:l4:224:GLY:HA3	2.00	0.43
8:l6:40:LEU:HD12	8:l6:65:ILE:HD11	2.00	0.43
9:l7:221:LYS:O	9:l7:227:GLY:O	2.36	0.43
18:m7:45:GLN:NE2	18:m7:95:LEU:HB3	2.34	0.43
22:n1:128:LEU:HA	22:n1:128:LEU:HD23	1.78	0.43
81:n4:23:ARG:HB2	81:n4:29:PHE:HE2	1.83	0.43
28:n7:83:THR:HG22	28:n7:85:TYR:N	2.29	0.43
33:o2:21:HIS:CE1	33:o2:24:ARG:HD2	2.54	0.43
45:6:319:U:O2'	45:6:320:U:OP1	2.36	0.43
45:6:894:U:H2'	45:6:895:G:C8	2.53	0.43
45:6:895:G:C5	45:6:896:U:C4	3.07	0.43
45:6:939:A:H2'	45:6:940:A:C8	2.53	0.43
45:6:1234:A:O2'	77:e1:145:HIS:O	2.32	0.43
45:6:1584:G:H5''	62:c6:122:ARG:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1597:A:C8	75:d9:14:TYR:CD2	3.07	0.43
46:s0:101:ARG:NH2	46:s0:104:PRO:HD3	2.33	0.43
46:s0:138:TYR:O	67:d1:29:HIS:HB3	2.17	0.43
50:s4:248:ILE:HA	50:s4:251:GLU:HG3	2.00	0.43
53:s7:21:ALA:O	53:s7:25:VAL:HG23	2.17	0.43
53:s7:98:ILE:HD13	53:s7:118:LEU:HD22	2.00	0.43
54:s8:67:TRP:HD1	54:s8:185:GLU:OE1	2.01	0.43
54:s8:184:LEU:O	54:s8:189:LEU:HD22	2.18	0.43
55:s9:112:GLN:HG3	55:s9:148:VAL:HG11	2.00	0.43
64:c8:91:ASP:O	64:c8:92:ILE:HG22	2.18	0.43
1:1:51:A:H2'	1:1:52:A:O4'	2.19	0.43
1:1:815:G:C2	1:1:926:A:C2	3.06	0.43
1:1:1352:A:H4'	1:1:1353:U:OP1	2.17	0.43
1:1:2107:A:H2	1:1:3344:A:C8	2.36	0.43
1:1:2164:A:OP1	4:L2:8:GLN:HG2	2.19	0.43
1:1:2397:A:C2	1:1:2873:U:H5'	2.53	0.43
1:1:3325:G:H5'	32:O1:104:LEU:O	2.18	0.43
6:L4:258:LEU:HD12	6:L4:258:LEU:HA	1.80	0.43
10:L8:101:THR:CG2	10:L8:104:GLU:H	2.31	0.43
14:M3:36:ARG:HG2	14:M3:39:ARG:HH22	1.82	0.43
14:M3:76:THR:HG23	14:M3:79:GLU:H	1.83	0.43
14:M3:89:TYR:CE2	14:M3:93:ILE:HD11	2.54	0.43
15:M4:16:GLU:HB2	21:N0:149:LYS:HG2	2.01	0.43
17:M6:8:VAL:HA	17:M6:34:VAL:HG13	2.00	0.43
19:M8:64:VAL:HG22	19:M8:96:PHE:CE2	2.54	0.43
21:N0:22:PRO:O	22:N1:146:ASN:ND2	2.46	0.43
27:N6:27:ARG:NH1	27:N6:76:LEU:HA	2.34	0.43
45:2:189:C:C2'	45:2:190:C:H5'	2.48	0.43
45:2:841:U:H2'	45:2:842:C:O4'	2.18	0.43
45:2:918:U:H2'	45:2:919:A:H8	1.83	0.43
45:2:1116:A:H2'	45:2:1117:U:O4'	2.19	0.43
45:2:1150:G:N2	45:2:1768:G:H2'	2.33	0.43
45:2:1546:G:H2'	45:2:1547:A:C8	2.54	0.43
45:2:1682:U:O2'	45:2:1683:C:H5'	2.18	0.43
47:S1:181:LEU:HD23	47:S1:182:ALA:N	2.33	0.43
51:S5:124:LEU:HD11	71:D5:59:TYR:HD1	1.83	0.43
53:S7:24:PHE:HE1	53:S7:77:LEU:HD11	1.82	0.43
55:S9:45:ILE:HA	55:S9:48:GLN:OE1	2.18	0.43
55:S9:127:VAL:HG12	55:S9:131:GLN:OE1	2.19	0.43
55:S9:168:ARG:HG2	55:S9:169:PRO:HD2	2.00	0.43
64:C8:82:PRO:HG3	65:C9:36:ILE:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:D3:29:TYR:CE2	69:D3:33:LEU:HD11	2.54	0.43
1:5:353:G:H22	1:5:364:G:H2'	1.81	0.43
1:5:591:G:O4'	8:l6:19:LYS:HG3	2.18	0.43
1:5:601:U:H3'	1:5:602:A:H8	1.83	0.43
1:5:1892:G:C6	1:5:1893:A:N7	2.85	0.43
1:5:2167:A:C2'	1:5:2168:A:H5'	2.48	0.43
1:5:2180:G:P	4:l2:174:ARG:HH22	2.41	0.43
1:5:2181:C:H2'	1:5:2182:A:O4'	2.18	0.43
1:5:2988:C:P	17:m6:68:ARG:NH1	2.91	0.43
1:5:3337:G:H8	1:5:3337:G:O5'	2.00	0.43
3:8:59:A:H5''	3:8:61:A:C8	2.53	0.43
4:l2:192:LYS:HD3	4:l2:193:ARG:NH2	2.33	0.43
5:l3:346:THR:O	5:l3:347:SER:C	2.61	0.43
7:l5:19:PRO:HD2	7:l5:24:ARG:HD3	2.00	0.43
8:l6:131:LYS:O	8:l6:134:ARG:N	2.52	0.43
9:l7:157:ASN:C	9:l7:159:GLN:H	2.27	0.43
28:n7:46:ILE:HD11	28:n7:49:TYR:CE2	2.53	0.43
45:6:563:U:O2'	45:6:566:C:N3	2.47	0.43
45:6:647:G:H22	45:6:687:G:N2	2.16	0.43
45:6:933:A:C5	45:6:935:U:C2	3.06	0.43
45:6:1230:A:H2'	45:6:1258:U:H5	1.79	0.43
45:6:1361:U:O2	45:6:1361:U:H2'	2.17	0.43
46:s0:29:VAL:HG13	46:s0:30:GLN:N	2.33	0.43
46:s0:52:LYS:HD3	67:d1:82:VAL:HG22	2.00	0.43
48:s2:98:PHE:HZ	79:sM:116:GLU:HG3	1.84	0.43
60:c4:112:ILE:HG22	60:c4:113:GLY:N	2.32	0.43
65:c9:35:ASP:OD2	65:c9:35:ASP:N	2.47	0.43
65:c9:67:MET:HE3	65:c9:67:MET:HB2	1.89	0.43
66:d0:30:LYS:HG3	66:d0:33:GLN:HB2	2.00	0.43
69:d3:95:PHE:O	69:d3:142:LYS:HE3	2.19	0.43
71:d5:59:TYR:HE1	71:d5:100:ILE:HG23	1.83	0.43
75:d9:12:ARG:HG2	75:d9:17:GLY:O	2.18	0.43
1:1:733:G:N2	1:1:736:A:OP2	2.44	0.43
1:1:817:A:C8	1:1:920:A:N1	2.87	0.43
1:1:1362:G:H2'	1:1:1363:A:C8	2.53	0.43
1:1:1804:A:H2'	1:1:1805:C:H6	1.82	0.43
1:1:2407:C:H2'	1:1:2408:U:C6	2.53	0.43
1:1:2605:G:N7	85:1:4003:LLL:H221	2.34	0.43
1:1:3057:U:H5'	1:1:3086:A:N6	2.24	0.43
1:1:3285:C:H2'	1:1:3286:G:O4'	2.19	0.43
1:1:3335:A:H5'	1:1:3335:A:H8	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:20:A:H2'	2:3:21:G:O4'	2.17	0.43
2:3:30:G:H1	2:3:47:C:N4	2.16	0.43
3:4:11:C:H2'	3:4:12:A:O4'	2.19	0.43
6:L4:281:ILE:HG22	19:M8:25:TYR:HB3	2.00	0.43
7:L5:113:LEU:HD12	7:L5:113:LEU:HA	1.70	0.43
8:L6:97:ASN:C	8:L6:99:GLU:H	2.27	0.43
9:L7:118:LYS:HG3	9:L7:191:VAL:HG11	2.00	0.43
10:L8:101:THR:HG22	10:L8:104:GLU:HG3	1.99	0.43
11:L9:94:TYR:HE1	11:L9:142:ASP:OD1	2.00	0.43
11:L9:137:SER:HB3	11:L9:143:GLU:HB3	2.00	0.43
13:M1:109:HIS:CD2	13:M1:114:ILE:HG21	2.53	0.43
15:M4:72:LEU:HD22	15:M4:73:PRO:CD	2.48	0.43
16:M5:93:LYS:HD3	16:M5:93:LYS:HA	1.71	0.43
40:O9:23:LEU:HD23	40:O9:23:LEU:HA	1.86	0.43
44:Q3:55:TRP:CD2	44:Q3:71:VAL:HG22	2.53	0.43
45:2:48:G:C6	45:2:432:G:C2	3.07	0.43
45:2:79:C:H1'	52:S6:174:LYS:HD3	2.00	0.43
45:2:159:U:O2	52:S6:87:ARG:NH1	2.50	0.43
45:2:614:C:H2'	45:2:615:A:C8	2.54	0.43
45:2:737:A:OP2	45:2:737:A:H2'	2.18	0.43
45:2:894:U:H3	45:2:918:U:H3	1.65	0.43
45:2:1144:U:H2'	45:2:1145:U:O4'	2.19	0.43
45:2:1277:G:O3'	49:S3:183:GLY:HA3	2.18	0.43
47:S1:116:LYS:HE2	47:S1:117:TRP:HZ3	1.82	0.43
48:S2:116:LYS:HG2	48:S2:127:ALA:HB3	2.01	0.43
52:S6:7:TYR:HE1	52:S6:125:THR:HA	1.82	0.43
55:S9:38:ASN:HA	76:E0:36:LYS:HE3	2.00	0.43
55:S9:109:LEU:HD13	55:S9:129:ILE:HD13	2.00	0.43
56:C0:44:LYS:HA	56:C0:44:LYS:HD3	1.76	0.43
63:C7:96:SER:HB2	63:C7:97:ASN:OD1	2.18	0.43
64:C8:6:GLN:HE22	71:D5:42:LEU:HB2	1.83	0.43
1:5:1120:A:H2'	1:5:1121:U:C6	2.53	0.43
1:5:1259:A:N6	1:5:1260:A:N1	2.66	0.43
1:5:1307:G:OP1	17:m6:59:ARG:NH1	2.51	0.43
1:5:1705:U:H5'	1:5:1706:C:OP2	2.17	0.43
1:5:1852:G:C6	1:5:1853:U:C4	3.07	0.43
1:5:2158:A:H4'	1:5:2159:U:H5''	2.00	0.43
1:5:2407:C:H1'	1:5:2818:U:C2	2.54	0.43
1:5:2667:A:O2'	1:5:2691:A:OP1	2.30	0.43
1:5:2688:U:C4	7:l5:16:PHE:CZ	3.07	0.43
85:5:4168:LLL:H531	14:m3:178:LYS:HZ1	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:262:TRP:HE1	17:m6:66:LYS:NZ	2.16	0.43
5:l3:380:MET:HE3	5:l3:380:MET:HB3	1.81	0.43
6:l4:206:LEU:HB2	6:l4:246:ARG:CD	2.49	0.43
7:l5:106:ALA:HB2	7:l5:166:ALA:HA	1.99	0.43
8:l6:10:TYR:HB3	33:o2:88:HIS:NE2	2.32	0.43
10:l8:68:ARG:HA	10:l8:236:GLY:O	2.18	0.43
10:l8:246:MET:HB3	10:l8:246:MET:HE2	1.58	0.43
11:l9:188:THR:O	11:l9:189:GLU:C	2.61	0.43
12:m0:46:PHE:HB3	12:m0:140:THR:HA	1.99	0.43
12:m0:51:HIS:CD2	12:m0:168:SER:HB2	2.53	0.43
16:m5:75:VAL:HG22	16:m5:76:PRO:HD2	2.01	0.43
16:m5:143:ARG:HH21	36:o5:92:LEU:HD23	1.83	0.43
21:n0:53:LYS:HB2	21:n0:53:LYS:HE3	1.72	0.43
81:n4:38:SER:O	81:n4:42:GLN:HG3	2.19	0.43
27:n6:28:ARG:HB2	27:n6:75:ARG:NH2	2.33	0.43
27:n6:60:ARG:HA	27:n6:60:ARG:HD3	1.70	0.43
27:n6:111:LEU:HA	27:n6:111:LEU:HD23	1.79	0.43
29:n8:91:LEU:HA	29:n8:121:VAL:HG21	1.99	0.43
32:o1:13:THR:HB	32:o1:72:ARG:HD2	2.00	0.43
33:o2:4:LEU:HD12	33:o2:90:LYS:O	2.19	0.43
34:o3:6:ARG:HD2	34:o3:8:TYR:O	2.19	0.43
34:o3:15:SER:OG	34:o3:16:TYR:O	2.37	0.43
36:o5:7:TYR:HA	36:o5:10:ARG:HG3	2.00	0.43
45:6:210:A:C6	45:6:211:U:C4	3.07	0.43
45:6:362:G:H8	45:6:362:G:O5'	2.01	0.43
45:6:577:G:H2'	79:sM:99:LYS:HE2	2.00	0.43
45:6:780:A:O2'	70:d4:8:ARG:HB3	2.18	0.43
45:6:856:A:N6	53:s7:96:ARG:HB3	2.33	0.43
45:6:872:G:H2'	45:6:873:U:O4'	2.18	0.43
45:6:1592:A:H2'	45:6:1593:A:C8	2.54	0.43
46:s0:21:ASN:O	46:s0:24:LEU:N	2.48	0.43
51:s5:31:GLU:HA	51:s5:34:GLN:HB3	2.00	0.43
54:s8:76:THR:HG22	54:s8:105:ASP:HB3	1.99	0.43
55:s9:158:PHE:HD2	55:s9:164:PHE:HB3	1.82	0.43
57:c1:54:ILE:HD13	57:c1:54:ILE:HA	1.86	0.43
59:c3:46:THR:OG1	59:c3:49:GLN:HG2	2.19	0.43
62:c6:10:PHE:C	62:c6:10:PHE:CD1	2.96	0.43
64:c8:73:MET:HG2	64:c8:101:LEU:CD2	2.49	0.43
66:d0:23:ARG:HD3	66:d0:92:ASP:OD1	2.19	0.43
69:d3:43:PHE:C	69:d3:45:GLY:H	2.27	0.43
1:1:628:A:H8	1:1:628:A:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:804:C:H5'	6:L4:93:MET:HE1	2.01	0.43
1:1:909:G:H2'	1:1:910:G:O4'	2.19	0.43
1:1:998:A:H4'	2:3:103:A:C2	2.53	0.43
1:1:999:G:N3	1:1:1002:A:N6	2.67	0.43
1:1:1025:A:OP1	1:1:1025:A:C8	2.71	0.43
1:1:1220:U:H4'	1:1:1221:A:O5'	2.19	0.43
1:1:1226:G:H2'	1:1:1227:C:O4'	2.18	0.43
1:1:1877:U:H5''	1:1:1878:G:O5'	2.17	0.43
6:L4:93:MET:H	6:L4:93:MET:HE2	1.83	0.43
9:L7:151:ARG:NH1	9:L7:244:ASN:OD1	2.44	0.43
11:L9:112:ILE:HD13	11:L9:161:LEU:HD12	1.99	0.43
12:M0:47:PRO:O	12:M0:172:GLY:N	2.41	0.43
14:M3:165:SER:C	14:M3:167:PHE:N	2.72	0.43
15:M4:77:ARG:O	15:M4:81:VAL:HG23	2.18	0.43
19:M8:26:LEU:O	19:M8:30:VAL:HG23	2.18	0.43
27:N6:53:ASP:HB2	27:N6:110:HIS:CD2	2.54	0.43
30:N9:14:ARG:HE	30:N9:14:ARG:HB3	1.58	0.43
30:N9:46:ALA:O	30:N9:50:THR:HG22	2.19	0.43
36:O5:41:LEU:HD23	36:O5:44:ILE:HG13	1.99	0.43
45:2:218:A:N1	45:2:843:U:O2'	2.48	0.43
45:2:400:A:H5''	54:S8:25:ARG:HA	2.00	0.43
45:2:541:A:O2'	45:2:542:A:H4'	2.18	0.43
45:2:736:C:C2'	45:2:737:A:H5'	2.47	0.43
45:2:747:C:H4'	68:D2:80:ASN:HD21	1.83	0.43
45:2:885:G:H2'	45:2:886:U:C6	2.53	0.43
45:2:1290:U:H2'	45:2:1291:G:H8	1.74	0.43
45:2:1291:G:C8	45:2:1291:G:O5'	2.71	0.43
45:2:1352:G:H1	45:2:1373:C:N4	2.17	0.43
45:2:1535:U:OP1	45:2:1535:U:H4'	2.17	0.43
45:2:1621:U:H2'	45:2:1622:G:C8	2.54	0.43
50:S4:108:ARG:H	50:S4:108:ARG:HG3	1.62	0.43
51:S5:57:SER:O	51:S5:59:VAL:HG23	2.19	0.43
52:S6:193:LEU:HD23	52:S6:193:LEU:HA	1.86	0.43
54:S8:165:LEU:HD13	54:S8:183:ILE:HD13	2.00	0.43
57:C1:84:ILE:HD13	57:C1:117:VAL:HG11	1.99	0.43
59:C3:71:ILE:HD12	59:C3:71:ILE:N	2.34	0.43
69:D3:103:LEU:HD23	69:D3:104:LEU:N	2.33	0.43
74:D8:54:LEU:HD12	74:D8:54:LEU:HA	1.72	0.43
1:5:316:U:O2'	37:o6:30:LYS:NZ	2.24	0.43
1:5:739:G:C2	1:5:740:G:C8	3.06	0.43
1:5:1669:C:OP1	35:o4:24:LYS:HE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1718:G:N7	20:m9:121:HIS:CE1	2.87	0.43
1:5:2143:A:O2'	1:5:2144:A:H2'	2.19	0.43
1:5:2890:A:N1	1:5:2913:C:N3	2.67	0.43
1:5:3147:G:H4'	5:l3:102:LEU:O	2.17	0.43
85:5:4151:LLL:H122	85:5:4151:LLL:H13	1.83	0.43
5:l3:14:LEU:HA	5:l3:17:LEU:HD13	2.01	0.43
5:l3:41:VAL:HG12	5:l3:185:GLY:C	2.43	0.43
5:l3:345:ASN:OD1	5:l3:347:SER:OG	2.33	0.43
17:m6:83:ALA:O	17:m6:87:MET:HG3	2.19	0.43
20:m9:4:LEU:HD22	20:m9:32:ILE:HG22	2.00	0.43
20:m9:39:ASN:OD1	20:m9:42:ARG:NH1	2.51	0.43
26:n5:86:VAL:HG21	26:n5:122:ALA:HB2	2.01	0.43
27:n6:27:ARG:NH1	27:n6:75:ARG:O	2.51	0.43
29:n8:27:LYS:HA	29:n8:27:LYS:HD2	1.74	0.43
45:6:106:U:H2'	45:6:107:C:O4'	2.19	0.43
45:6:183:U:H2'	45:6:184:C:C6	2.53	0.43
45:6:365:G:O6	85:6:2172:LLL:H222	2.18	0.43
45:6:391:A:O2'	45:6:1730:A:H4'	2.19	0.43
45:6:811:A:H1'	45:6:858:G:H8	1.83	0.43
45:6:1153:G:H2'	45:6:1154:G:O4'	2.18	0.43
45:6:1423:U:H2'	45:6:1424:A:O4'	2.18	0.43
45:6:1751:C:H2'	45:6:1752:U:C6	2.53	0.43
47:s1:132:ASP:HB2	47:s1:221:PRO:HB3	2.01	0.43
49:s3:158:ILE:HD13	49:s3:189:MET:HE1	2.01	0.43
51:s5:33:VAL:HG12	51:s5:34:GLN:N	2.34	0.43
51:s5:205:SER:OG	51:s5:207:THR:N	2.51	0.43
52:s6:38:GLY:N	52:s6:48:TYR:O	2.52	0.43
54:s8:194:ARG:CZ	54:s8:194:ARG:HB2	2.48	0.43
63:c7:6:THR:OG1	63:c7:8:THR:HG22	2.19	0.43
70:d4:104:SER:OG	70:d4:107:GLN:HB2	2.17	0.43
76:e0:44:PHE:HD2	76:e0:54:ARG:NH2	2.16	0.43
78:sR:67:ILE:O	78:sR:84:SER:OG	2.22	0.43
1:1:540:U:H2'	1:1:541:U:O4'	2.19	0.43
1:1:665:A:H1'	14:M3:14:PHE:CE1	2.53	0.43
1:1:1062:A:H1'	22:N1:130:ARG:NH2	2.33	0.43
1:1:1317:A:C2	1:1:1319:G:C6	3.07	0.43
1:1:1467:A:C6	1:1:1511:U:C2	3.06	0.43
1:1:1573:G:C2	1:1:1574:C:H1'	2.53	0.43
1:1:1739:U:H1'	35:O4:41:ARG:CZ	2.48	0.43
1:1:2260:U:H2'	1:1:2261:G:C8	2.54	0.43
1:1:3157:U:H4'	1:1:3158:G:C5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L2:190:ARG:HB3	4:L2:191:LEU:HD12	2.00	0.43
5:L3:53:MET:HE2	5:L3:77:THR:CG2	2.49	0.43
5:L3:123:TYR:CE2	5:L3:124:LYS:HG3	2.54	0.43
85:L3:404:LLL:H3	85:L3:404:LLL:C13	2.32	0.43
6:L4:64:SER:N	6:L4:75:PRO:HA	2.33	0.43
6:L4:156:LEU:O	6:L4:159:ILE:HG13	2.19	0.43
7:L5:281:GLU:O	7:L5:285:ARG:HG3	2.18	0.43
10:L8:70:LYS:HB3	10:L8:233:TRP:CE3	2.54	0.43
14:M3:64:LYS:HG3	29:N8:69:TRP:CD2	2.54	0.43
14:M3:165:SER:OG	14:M3:168:ARG:HB2	2.18	0.43
14:M3:176:GLU:O	14:M3:180:ARG:HB2	2.19	0.43
15:M4:89:ALA:O	15:M4:93:LYS:HG3	2.18	0.43
16:M5:194:GLN:HG2	16:M5:194:GLN:H	1.55	0.43
19:M8:57:ILE:HD11	19:M8:147:ARG:NH2	2.33	0.43
29:N8:39:HIS:ND1	29:N8:39:HIS:N	2.66	0.43
36:O5:76:GLN:HB2	36:O5:77:PRO:CD	2.48	0.43
39:O8:23:ALA:HB3	39:O8:75:VAL:HG22	1.99	0.43
45:2:98:U:H2'	45:2:99:C:C6	2.54	0.43
45:2:144:U:O2'	45:2:145:A:H8	2.02	0.43
45:2:181:A:H2'	45:2:182:A:O4'	2.19	0.43
45:2:219:A:C6	45:2:843:U:H1'	2.54	0.43
45:2:275:C:H2'	45:2:276:C:C6	2.54	0.43
45:2:397:A:O3'	54:S8:50:GLY:HA2	2.19	0.43
46:S0:84:ARG:HD3	46:S0:203:PHE:H	1.83	0.43
47:S1:68:VAL:HG13	47:S1:73:LEU:HD23	2.00	0.43
47:S1:133:TYR:N	47:S1:221:PRO:HD3	2.33	0.43
56:C0:62:GLN:NE2	75:D9:23:VAL:O	2.51	0.43
59:C3:89:TYR:CE1	59:C3:93:LYS:HD2	2.53	0.43
62:C6:7:VAL:HG22	62:C6:22:VAL:HB	2.01	0.43
78:SR:21:THR:N	78:SR:36:ALA:O	2.41	0.43
79:SM:61:ILE:H	79:SM:61:ILE:HG13	1.44	0.43
1:5:391:A:C4	1:5:392:G:C8	3.07	0.43
1:5:815:G:C6	1:5:906:A:C4	3.06	0.43
1:5:987:U:H2'	1:5:988:U:C6	2.54	0.43
1:5:1610:G:P	26:n5:125:ARG:HH12	2.41	0.43
1:5:1795:U:H4'	1:5:1796:G:C4	2.53	0.43
1:5:2158:A:O2'	4:l2:118:GLU:OE1	2.35	0.43
1:5:2534:G:H2'	1:5:2535:A:C8	2.54	0.43
1:5:3218:A:H3'	1:5:3218:A:OP1	2.18	0.43
1:5:3287:U:H2'	1:5:3288:G:H5'	2.00	0.43
1:5:3375:A:C4	1:5:3376:A:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:3393:U:H2'	1:5:3394:U:C6	2.53	0.43
4:l2:104:LEU:O	4:l2:107:VAL:HG22	2.18	0.43
6:l4:82:THR:HG23	6:l4:85:SER:H	1.83	0.43
7:l5:86:TYR:CE1	7:l5:247:ILE:HA	2.54	0.43
13:m1:6:GLN:HG3	13:m1:7:ASN:H	1.83	0.43
13:m1:34:SER:HA	13:m1:67:VAL:HG11	2.00	0.43
20:m9:103:ARG:HH21	20:m9:128:LYS:HG3	1.84	0.43
20:m9:134:HIS:CE1	20:m9:137:ALA:HB2	2.54	0.43
81:n4:124:LYS:HA	81:n4:127:LYS:CG	2.47	0.43
26:n5:63:ILE:HD11	26:n5:84:PHE:CG	2.53	0.43
36:o5:38:ARG:HB2	36:o5:38:ARG:NH2	2.34	0.43
43:q2:83:LEU:HD23	43:q2:84:THR:N	2.33	0.43
45:6:959:U:C5'	73:d7:28:PRO:HB3	2.43	0.43
45:6:962:C:H2'	45:6:963:A:O4'	2.19	0.43
45:6:1182:U:H4'	61:c5:124:THR:HG23	2.01	0.43
45:6:1182:U:O3'	61:c5:124:THR:HG21	2.18	0.43
45:6:1215:C:O4'	75:d9:7:TRP:HH2	2.02	0.43
45:6:1333:C:H4'	49:s3:162:GLN:HG3	2.01	0.43
45:6:1433:G:H22	75:d9:45:GLU:CD	2.26	0.43
45:6:1677:C:H42	45:6:1724:U:H3	1.65	0.43
46:s0:33:GLN:NE2	46:s0:148:ASP:O	2.50	0.43
47:s1:113:MET:HE3	47:s1:209:ASN:HB3	1.99	0.43
51:s5:61:TYR:OH	74:d8:49:ARG:NH1	2.52	0.43
53:s7:168:SER:O	53:s7:172:VAL:HG23	2.18	0.43
59:c3:72:MET:HB3	59:c3:72:MET:HE3	1.66	0.43
60:c4:48:VAL:HG11	60:c4:53:ASP:HB2	1.99	0.43
60:c4:117:ASP:OD1	60:c4:119:THR:HG22	2.19	0.43
65:c9:14:PHE:HE1	65:c9:136:ALA:HB2	1.83	0.43
66:d0:104:THR:O	66:d0:108:ILE:HD11	2.17	0.43
69:d3:69:ARG:HD2	69:d3:116:ASP:OD2	2.19	0.43
70:d4:29:HIS:CE1	70:d4:69:SER:HG	2.35	0.43
75:d9:43:PHE:O	75:d9:47:ALA:N	2.51	0.43
76:e0:45:VAL:O	76:e0:47:VAL:HG23	2.18	0.43
1:1:437:G:P	1:1:437:G:H8	2.41	0.43
1:1:1227:C:H5'	1:1:1228:C:OP2	2.18	0.43
1:1:1591:G:O6	1:1:1592:G:N1	2.52	0.43
1:1:1632:A:H2'	1:1:1633:C:H6	1.81	0.43
1:1:1660:C:H2'	1:1:1661:G:H8	1.84	0.43
1:1:2338:C:H1'	24:N3:49:LEU:HD12	2.01	0.43
1:1:2629:U:O4	22:N1:2:GLY:HA3	2.19	0.43
1:1:2656:A:C8	1:1:2658:G:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3159:C:H2'	1:1:3160:U:H6	1.84	0.43
6:L4:62:ALA:O	6:L4:90:PHE:HE2	2.01	0.43
6:L4:283:THR:HG22	6:L4:285:ASP:H	1.84	0.43
13:M1:132:ASN:HA	13:M1:154:THR:HG21	2.00	0.43
15:M4:24:LYS:HE2	15:M4:63:VAL:C	2.44	0.43
15:M4:113:THR:H	15:M4:116:GLU:HB2	1.84	0.43
21:N0:6:GLU:CD	21:N0:99:ARG:HH21	2.26	0.43
22:N1:57:TYR:CG	22:N1:89:LEU:HD21	2.53	0.43
24:N3:87:ARG:HH12	24:N3:137:VAL:HG21	1.84	0.43
24:N3:108:GLU:HB3	24:N3:128:ARG:HG3	2.00	0.43
27:N6:103:LYS:HA	27:N6:103:LYS:HD3	1.90	0.43
33:O2:25:TYR:HB2	33:O2:28:VAL:HG23	2.00	0.43
36:O5:53:CYS:O	36:O5:57:VAL:HG23	2.19	0.43
39:O8:65:LEU:O	39:O8:68:SER:N	2.52	0.43
45:2:355:G:H2'	45:2:356:G:H8	1.84	0.43
45:2:424:C:O2'	45:2:426:G:OP1	2.34	0.43
45:2:590:C:H5''	76:E0:43:ARG:HH12	1.83	0.43
45:2:685:A:O2'	45:2:686:C:OP1	2.36	0.43
45:2:795:U:HO2'	45:2:796:A:P	2.41	0.43
45:2:1383:G:P	66:D0:89:ARG:HH12	2.41	0.43
46:S0:27:ARG:HG3	46:S0:44:GLY:O	2.19	0.43
47:S1:49:ASN:N	47:S1:49:ASN:OD1	2.52	0.43
47:S1:92:GLN:NE2	47:S1:95:ASN:HB3	2.34	0.43
47:S1:140:ILE:O	47:S1:210:ILE:HA	2.19	0.43
48:S2:233:GLN:HA	48:S2:234:PRO:HD3	1.83	0.43
63:C7:5:ARG:HB2	63:C7:10:LYS:HE2	2.00	0.43
69:D3:127:VAL:O	69:D3:130:VAL:HG22	2.19	0.43
71:D5:91:PRO:HB3	71:D5:101:TYR:CE1	2.53	0.43
1:5:822:G:O4'	4:l2:15:ILE:HG13	2.19	0.43
1:5:992:A:C2'	1:5:993:G:H5'	2.49	0.43
1:5:1558:A:O3'	26:n5:34:LEU:HB2	2.19	0.43
1:5:1677:G:OP2	23:n2:103:TYR:OH	2.24	0.43
1:5:2304:C:H3'	1:5:2305:G:N2	2.33	0.43
1:5:3057:U:H5'	1:5:3086:A:H61	1.84	0.43
1:5:3268:A:H2	8:l6:138:GLN:HG2	1.83	0.43
1:5:3384:U:H2'	1:5:3385:U:H6	1.82	0.43
2:7:64:A:N1	12:m0:202:LYS:HG2	2.33	0.43
4:l2:137:ILE:HG12	4:l2:147:ARG:HB2	1.99	0.43
10:l8:145:ASN:O	10:l8:146:LYS:HB2	2.18	0.43
11:l9:1:MET:HE2	11:l9:3:TYR:HD1	1.84	0.43
13:m1:23:VAL:HB	13:m1:65:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:m5:96:ARG:HG2	16:m5:96:ARG:NH1	2.32	0.43
18:m7:20:SER:HB3	18:m7:21:TYR:HD2	1.84	0.43
19:m8:41:ASP:O	19:m8:42:ALA:C	2.62	0.43
21:n0:7:TYR:CE1	21:n0:34:GLU:HG2	2.54	0.43
23:n2:22:PRO:HB2	23:n2:28:PHE:HB2	2.01	0.43
81:n4:6:ASP:HA	81:n4:13:ILE:HD11	1.99	0.43
81:n4:80:ARG:HB2	81:n4:81:PRO:HD2	1.99	0.43
38:o7:28:HIS:CD2	38:o7:31:LYS:HB2	2.53	0.43
38:o7:34:CYS:SG	38:o7:36:SER:N	2.85	0.43
38:o7:70:VAL:HA	38:o7:73:ARG:HG3	2.00	0.43
40:o9:9:ILE:HA	40:o9:12:LYS:HB2	2.01	0.43
82:p0:26:PHE:N	82:p0:87:VAL:O	2.51	0.43
41:q0:115:CYS:SG	41:q0:118:THR:HG22	2.58	0.43
45:6:621:A:N3	45:6:1107:G:H1'	2.34	0.43
45:6:901:G:H2'	45:6:902:G:C8	2.54	0.43
45:6:903:U:O2'	45:6:905:A:N7	2.37	0.43
45:6:1217:A:H4'	56:c0:44:LYS:HD2	1.99	0.43
45:6:1231:U:HO2'	45:6:1258:U:HO2'	1.66	0.43
45:6:1273:G:O6	45:6:1431:C:H5'	2.19	0.43
46:s0:41:ARG:NH2	63:c7:103:ASP:OD2	2.52	0.43
47:s1:148:ASN:H	47:s1:148:ASN:ND2	2.17	0.43
48:s2:88:LYS:O	48:s2:94:GLN:HG2	2.19	0.43
49:s3:114:ALA:C	49:s3:115:ILE:HG13	2.43	0.43
49:s3:225:TYR:HD2	78:sR:189:GLU:O	2.02	0.43
50:s4:172:PHE:HE2	50:s4:174:LYS:HG2	1.83	0.43
51:s5:198:LEU:O	51:s5:202:ALA:N	2.51	0.43
53:s7:3:ALA:O	53:s7:7:LYS:HB2	2.18	0.43
63:c7:34:LEU:HD22	63:c7:38:ILE:HD13	1.99	0.43
64:c8:140:THR:HA	64:c8:143:ARG:NH1	2.34	0.43
66:d0:32:LYS:HA	66:d0:35:GLU:HB2	1.99	0.43
66:d0:117:VAL:HG12	66:d0:119:ALA:H	1.84	0.43
68:d2:23:ARG:H	68:d2:24:GLN:NE2	2.17	0.43
70:d4:82:ALA:O	70:d4:85:PHE:N	2.51	0.43
73:d7:58:SER:C	73:d7:60:SER:H	2.26	0.43
1:1:86:G:O2'	1:1:98:G:O6	2.35	0.43
1:1:409:A:H2'	1:1:410:U:O4'	2.17	0.43
1:1:644:G:H2'	1:1:2372:A:N7	2.34	0.43
1:1:670:C:OP1	19:M8:147:ARG:NH2	2.52	0.43
1:1:1099:A:C6	1:1:1100:U:C4	3.07	0.43
1:1:3000:A:H2'	1:1:3001:C:C6	2.54	0.43
1:1:3081:C:H2'	1:1:3082:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3275:U:H5'	34:O3:68:TRP:CZ2	2.53	0.43
1:1:3308:C:O2	18:M7:69:ARG:HD3	2.19	0.43
2:3:77:G:O5'	21:N0:50:LYS:HG2	2.19	0.43
4:L2:89:TYR:N	4:L2:100:ASN:OD1	2.49	0.43
4:L2:204:MET:HE3	4:L2:208:ASP:CB	2.45	0.43
6:L4:208:VAL:HG12	6:L4:230:VAL:HG22	2.01	0.43
6:L4:317:PRO:O	6:L4:319:LYS:N	2.51	0.43
7:L5:279:LYS:HG2	7:L5:282:ARG:NH2	2.34	0.43
14:M3:159:VAL:HG12	29:N8:96:LYS:HE2	2.00	0.43
17:M6:11:GLY:N	17:M6:36:VAL:O	2.44	0.43
17:M6:84:LEU:HD22	17:M6:102:LEU:HD22	2.00	0.43
18:M7:4:TYR:HE1	18:M7:16:SER:HB2	1.84	0.43
24:N3:13:ILE:HG13	24:N3:53:SER:HB2	2.01	0.43
28:N7:10:VAL:HB	28:N7:83:THR:HG21	2.01	0.43
28:N7:135:ARG:HH21	28:N7:135:ARG:CG	2.32	0.43
45:2:57:G:H2'	45:2:58:U:O4'	2.19	0.43
45:2:1362:U:H6	45:2:1362:U:H2'	1.64	0.43
45:2:1648:A:H2'	45:2:1649:G:H8	1.84	0.43
47:S1:176:VAL:HG12	47:S1:177:GLN:N	2.31	0.43
50:S4:114:ILE:HG22	50:S4:237:SER:OG	2.19	0.43
51:S5:27:THR:HG21	62:C6:30:LYS:HG3	2.01	0.43
53:S7:15:GLU:O	53:S7:19:GLN:HG2	2.18	0.43
54:S8:58:LEU:O	54:S8:59:ARG:HB2	2.18	0.43
63:C7:61:ILE:HD11	63:C7:69:ILE:HD12	2.01	0.43
71:D5:43:ASP:HB2	71:D5:46:LYS:CD	2.49	0.43
74:D8:27:GLN:OE1	74:D8:64:ARG:NH2	2.32	0.43
75:D9:5:ASN:O	75:D9:7:TRP:CD2	2.72	0.43
78:SR:23:LEU:HA	78:SR:34:LEU:O	2.18	0.43
79:SM:53:ARG:HA	79:SM:53:ARG:HE	1.84	0.43
1:5:181:U:O3'	38:o7:75:LYS:HD3	2.19	0.43
1:5:281:G:C6	1:5:282:G:C6	3.07	0.43
1:5:321:C:H2'	1:5:322:U:H6	1.84	0.43
1:5:1203:A:P	85:5:4151:LLL:H832	2.59	0.43
1:5:2426:U:H2'	1:5:2427:U:C6	2.54	0.43
1:5:2724:U:H4'	22:n1:54:HIS:NE2	2.34	0.43
1:5:2885:C:O2'	1:5:2886:U:H5'	2.18	0.43
1:5:2927:C:H2'	1:5:2928:C:C6	2.54	0.43
1:5:3308:C:O2	18:m7:69:ARG:HD3	2.18	0.43
1:5:3370:A:P	5:l3:383:LEU:HD22	2.59	0.43
2:7:57:G:C8	2:7:58:C:C5	3.07	0.43
5:l3:4:ARG:HH11	5:l3:4:ARG:CG	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:l6:40:LEU:HB3	8:l6:84:VAL:HG13	2.01	0.43
16:m5:38:ARG:NE	16:m5:60:VAL:HG13	2.34	0.43
20:m9:101:VAL:HG22	20:m9:104:ARG:NH1	2.34	0.43
21:n0:5:LYS:HD3	21:n0:63:GLN:OE1	2.18	0.43
35:o4:58:ARG:HB3	35:o4:59:PRO:HD2	2.00	0.43
45:6:51:A:OP2	45:6:424:C:N4	2.49	0.43
45:6:71:A:C2	45:6:81:G:C6	3.07	0.43
45:6:123:G:N2	50:s4:146:THR:HG21	2.31	0.43
45:6:248:U:O3'	57:c1:34:TRP:HZ2	2.01	0.43
45:6:363:G:O2'	45:6:364:G:H5'	2.19	0.43
45:6:780:A:H2	70:d4:8:ARG:CZ	2.31	0.43
45:6:1266:U:H2'	45:6:1267:G:C8	2.53	0.43
45:6:1440:C:H5''	45:6:1441:C:OP2	2.19	0.43
45:6:1558:U:H3	61:c5:122:THR:HG22	1.82	0.43
45:6:1707:A:O2'	45:6:1708:U:H5'	2.19	0.43
51:s5:61:TYR:CD2	51:s5:164:PRO:HB2	2.53	0.43
51:s5:121:ILE:HA	51:s5:199:ILE:HD11	2.01	0.43
53:s7:154:LEU:HD11	53:s7:183:PHE:CD1	2.54	0.43
54:s8:169:ILE:HG22	54:s8:171:SER:H	1.84	0.43
56:c0:44:LYS:HD3	56:c0:47:GLN:OE1	2.19	0.43
57:c1:16:GLN:HE22	57:c1:34:TRP:HB3	1.83	0.43
58:c2:52:LEU:CD2	58:c2:122:VAL:HG21	2.49	0.43
59:c3:40:TYR:O	59:c3:43:LYS:HB2	2.19	0.43
62:c6:115:THR:HB	62:c6:118:ILE:O	2.19	0.43
72:d6:88:SER:CB	72:d6:91:ASP:HB2	2.49	0.43
73:d7:58:SER:O	73:d7:60:SER:N	2.51	0.43
78:sR:54:PHE:CE2	78:sR:312:VAL:HG11	2.53	0.43
1:1:150:A:OP1	16:M5:56:LYS:NZ	2.51	0.43
1:1:321:C:H5''	16:M5:150:TRP:CZ3	2.54	0.43
1:1:1213:G:OP1	21:N0:139:TYR:OH	2.30	0.43
1:1:1381:A:H5'	6:L4:197:ARG:NH1	2.34	0.43
1:1:1495:U:H5	1:1:1835:A:N1	2.17	0.43
1:1:2261:G:H21	1:1:2262:A:H61	1.66	0.43
1:1:2424:A:H2'	1:1:2425:G:O4'	2.19	0.43
1:1:2988:C:OP1	17:M6:65:ASN:HB2	2.19	0.43
1:1:3113:A:H2'	1:1:3114:A:O4'	2.18	0.43
1:1:3286:G:N3	1:1:3286:G:H2'	2.34	0.43
1:1:3353:G:H8	1:1:3353:G:H2'	1.68	0.43
6:L4:98:ARG:HD2	6:L4:99:MET:O	2.18	0.43
7:L5:262:LYS:HB3	7:L5:262:LYS:HE3	1.75	0.43
8:L6:155:LEU:O	8:L6:155:LEU:HD22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L9:189:GLU:O	11:L9:190:ASP:HB3	2.19	0.43
14:M3:79:GLU:HG3	14:M3:109:PHE:CD2	2.54	0.43
17:M6:22:VAL:HG21	17:M6:120:VAL:HG11	2.00	0.43
17:M6:85:ARG:HD3	17:M6:90:HIS:CD2	2.53	0.43
20:M9:11:ALA:HB1	20:M9:50:ILE:HG21	2.01	0.43
32:O1:90:PHE:C	32:O1:90:PHE:CD2	2.97	0.43
44:Q3:89:MET:HE2	44:Q3:89:MET:HB3	1.66	0.43
45:2:894:U:H2'	45:2:895:G:C8	2.53	0.43
45:2:1002:G:N2	45:2:1760:G:O3'	2.52	0.43
45:2:1201:G:N2	45:2:1600:A:H5'	2.33	0.43
45:2:1498:G:H2'	45:2:1499:G:C8	2.54	0.43
45:2:1542:G:H5''	65:C9:88:VAL:N	2.33	0.43
45:2:1566:U:H4'	64:C8:37:GLY:O	2.19	0.43
46:S0:52:LYS:HE3	67:D1:82:VAL:HA	2.01	0.43
46:S0:126:PRO:HA	46:S0:133:ILE:HD11	2.01	0.43
47:S1:141:ALA:CB	47:S1:207:LEU:HD23	2.49	0.43
48:S2:52:THR:HB	48:S2:54:GLU:OE2	2.18	0.43
50:S4:68:ARG:NH1	50:S4:76:VAL:HG21	2.34	0.43
52:S6:32:ILE:HB	52:S6:65:GLN:HG3	2.01	0.43
52:S6:73:ILE:HD11	52:S6:75:LEU:HD21	2.00	0.43
52:S6:98:ARG:HD2	52:S6:106:LEU:HD21	2.01	0.43
55:S9:70:LEU:C	55:S9:74:ASN:HD22	2.22	0.43
55:S9:77:ILE:HD11	55:S9:93:LEU:HB3	2.01	0.43
55:S9:107:ARG:HH22	55:S9:153:GLU:CD	2.26	0.43
55:S9:161:THR:O	55:S9:162:SER:OG	2.29	0.43
58:C2:81:ASP:HA	58:C2:82:PRO:HD3	1.87	0.43
59:C3:113:PHE:HD1	59:C3:114:ARG:NH1	2.17	0.43
60:C4:47:LYS:NZ	60:C4:62:LEU:O	2.46	0.43
65:C9:56:LYS:O	65:C9:60:SER:N	2.51	0.43
66:D0:87:HIS:HB3	66:D0:89:ARG:NH1	2.34	0.43
76:E0:14:VAL:O	76:E0:18:THR:HG23	2.18	0.43
1:5:55:G:OP1	38:o7:43:LYS:HE3	2.19	0.43
1:5:283:G:P	43:q2:45:ARG:HH21	2.40	0.43
1:5:346:C:OP1	6:l4:53:SER:HB3	2.19	0.43
1:5:743:C:O2	19:m8:141:ARG:HD3	2.18	0.43
1:5:826:G:C6	1:5:827:A:C5	3.06	0.43
1:5:916:G:N7	1:5:924:G:C5	2.87	0.43
1:5:1069:C:C4	1:5:1070:U:C5	3.06	0.43
1:5:1355:A:O2'	1:5:1356:U:P	2.77	0.43
1:5:1946:A:C4	1:5:1947:G:C8	3.07	0.43
1:5:3024:A:C2	1:5:3032:A:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:3133:C:H2'	1:5:3134:A:O4'	2.18	0.43
6:14:16:THR:HG22	6:14:18:ASN:N	2.33	0.43
7:15:92:LEU:HD23	7:15:92:LEU:HA	1.76	0.43
9:17:102:VAL:HG13	9:17:126:LEU:HD22	2.01	0.43
10:18:33:ASN:O	10:18:35:GLY:N	2.52	0.43
17:m6:22:VAL:O	17:m6:26:GLN:HG2	2.19	0.43
20:m9:68:GLN:O	20:m9:71:ARG:HB2	2.19	0.43
21:n0:11:GLY:HA2	21:n0:59:VAL:H	1.83	0.43
26:n5:92:LYS:HA	26:n5:95:ILE:HD12	2.01	0.43
27:n6:52:ARG:HA	27:n6:70:ILE:HG22	2.00	0.43
31:o0:41:LEU:HD21	31:o0:68:TYR:HB2	2.01	0.43
82:p0:48:ARG:HG2	82:p0:91:GLU:N	2.34	0.43
43:q2:28:TYR:CD1	43:q2:29:LYS:N	2.83	0.43
43:q2:28:TYR:HB3	43:q2:69:VAL:HB	2.01	0.43
45:6:364:G:OP1	85:6:2172:LLL:N32	2.52	0.43
45:6:484:C:N4	45:6:503:G:H1	2.15	0.43
45:6:1166:A:H2'	45:6:1167:G:O4'	2.18	0.43
48:s2:49:LYS:HD2	48:s2:243:TYR:CE1	2.53	0.43
49:s3:115:ILE:HD13	49:s3:116:ARG:HD2	2.00	0.43
49:s3:135:GLU:HG3	49:s3:153:ALA:HB2	2.01	0.43
50:s4:45:ILE:HD12	50:s4:61:VAL:HG21	2.01	0.43
55:s9:114:TYR:HA	55:s9:119:ALA:HB3	1.99	0.43
59:c3:75:LEU:O	59:c3:80:LEU:N	2.51	0.43
64:c8:4:VAL:HG21	71:d5:82:HIS:CB	2.47	0.43
64:c8:28:ILE:H	64:c8:28:ILE:HG13	1.35	0.43
64:c8:143:ARG:C	64:c8:145:ARG:H	2.27	0.43
67:d1:70:ASN:OD1	67:d1:70:ASN:N	2.51	0.43
70:d4:53:ASP:OD1	70:d4:53:ASP:N	2.52	0.43
72:d6:59:TYR:HA	72:d6:60:PRO:HD3	1.78	0.43
78:sR:84:SER:HB3	78:sR:86:ASP:OD1	2.19	0.43
1:1:36:C:OP2	16:M5:83:LYS:HE3	2.19	0.42
1:1:170:G:C4	1:1:250:U:O2	2.72	0.42
1:1:247:C:H2'	1:1:248:U:C6	2.54	0.42
1:1:385:A:H2'	1:1:386:A:C8	2.54	0.42
1:1:549:U:H2'	1:1:550:A:H8	1.80	0.42
1:1:1307:G:H1'	1:1:1308:A:C8	2.54	0.42
1:1:1465:A:H2'	1:1:1466:G:O4'	2.19	0.42
1:1:1478:C:H2'	1:1:1479:U:C6	2.54	0.42
1:1:1629:U:O4	28:N7:111:LYS:HD2	2.19	0.42
1:1:1798:A:H2'	1:1:1799:A:C8	2.54	0.42
1:1:1888:U:OP1	5:L3:247:ARG:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2291:A:O2'	45:2:1655:A:N1	2.47	0.42
1:1:2304:C:C5	1:1:2305:G:C6	3.07	0.42
1:1:2339:C:OP2	24:N3:48:ARG:HG3	2.19	0.42
1:1:2861:U:H2'	1:1:2862:U:C6	2.53	0.42
1:1:3232:G:C6	1:1:3233:C:C4	3.07	0.42
1:1:3335:A:H5''	1:1:3370:A:C2	2.54	0.42
1:1:3358:U:H2'	1:1:3359:A:OP1	2.18	0.42
3:4:108:C:H2'	3:4:109:A:O4'	2.19	0.42
4:L2:104:LEU:HD12	4:L2:146:THR:HG21	2.01	0.42
4:L2:188:LYS:O	4:L2:192:LYS:HG3	2.19	0.42
4:L2:224:THR:HA	4:L2:237:LEU:O	2.19	0.42
5:L3:187:SER:O	5:L3:188:ILE:C	2.62	0.42
6:L4:6:VAL:O	6:L4:19:ALA:HB1	2.19	0.42
6:L4:188:ARG:HG3	6:L4:190:GLY:H	1.83	0.42
12:M0:43:VAL:HG23	12:M0:195:ALA:O	2.18	0.42
18:M7:47:TYR:OH	18:M7:57:ALA:O	2.32	0.42
27:N6:42:GLN:O	27:N6:125:LYS:HE3	2.19	0.42
36:O5:21:LEU:CD2	36:O5:25:LYS:HE3	2.46	0.42
40:O9:41:ARG:HG3	40:O9:42:ARG:N	2.32	0.42
41:Q0:78:ILE:H	41:Q0:78:ILE:HG12	1.54	0.42
45:2:103:A:H4'	45:2:104:A:OP2	2.19	0.42
45:2:196:G:O2'	45:2:197:A:C8	2.72	0.42
45:2:196:G:O2'	45:2:197:A:H8	2.02	0.42
45:2:220:A:H5''	45:2:832:U:H1'	2.00	0.42
45:2:464:A:C2	45:2:465:G:C8	3.07	0.42
45:2:477:A:OP1	76:E0:31:LYS:HG2	2.20	0.42
45:2:587:C:H2'	45:2:588:U:O4'	2.19	0.42
45:2:1100:G:H4'	45:2:1101:G:OP1	2.19	0.42
45:2:1438:G:H2'	45:2:1439:C:C6	2.54	0.42
45:2:1589:C:H2'	45:2:1590:G:C8	2.54	0.42
45:2:1623:C:H2'	45:2:1624:C:C6	2.53	0.42
45:2:1754:A:H8	45:2:1754:A:O5'	2.00	0.42
45:2:1796:C:OP1	72:D6:87:ARG:HD3	2.19	0.42
46:S0:79:ARG:HD2	46:S0:125:ASP:OD2	2.18	0.42
51:S5:120:ILE:HD11	71:D5:98:GLN:NE2	2.34	0.42
52:S6:7:TYR:HE1	52:S6:125:THR:HG23	1.84	0.42
59:C3:60:VAL:HG13	59:C3:66:ILE:HG21	2.00	0.42
63:C7:21:TYR:HD2	63:C7:58:MET:HE1	1.83	0.42
65:C9:11:ALA:HA	65:C9:63:ARG:NH1	2.33	0.42
68:D2:7:LEU:HD23	68:D2:34:ILE:HG12	2.01	0.42
68:D2:29:PRO:HB2	68:D2:58:SER:CB	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:D2:126:LEU:HD23	68:D2:126:LEU:HA	1.76	0.42
70:D4:54:ALA:O	70:D4:76:TYR:N	2.36	0.42
78:SR:61:PHE:HB3	78:SR:92:TRP:CZ3	2.53	0.42
1:5:185:C:H4'	27:n6:122:LYS:HA	2.00	0.42
1:5:824:C:O2'	1:5:825:U:H5'	2.18	0.42
1:5:1266:G:N2	1:5:1276:U:H1'	2.34	0.42
1:5:1323:G:O3'	21:n0:2:ALA:HA	2.18	0.42
1:5:1348:U:H5''	1:5:1349:G:OP1	2.19	0.42
1:5:1631:C:OP2	28:n7:48:ARG:NH2	2.46	0.42
1:5:1653:G:O2'	35:o4:42:PRO:HB3	2.19	0.42
1:5:2148:U:H2'	1:5:2149:A:C5	2.54	0.42
1:5:2315:G:H2'	1:5:2316:G:H8	1.84	0.42
1:5:2606:G:OP1	4:l2:233:GLN:NE2	2.46	0.42
2:7:28:C:OP1	13:m1:137:ARG:HD3	2.18	0.42
2:7:52:G:C2'	2:7:53:U:H5'	2.49	0.42
3:8:53:A:C2	40:o9:35:ILE:HD11	2.54	0.42
3:8:108:C:H2'	3:8:109:A:O4'	2.19	0.42
4:l2:79:ASN:O	4:l2:80:GLU:HB3	2.19	0.42
11:l9:180:TYR:HB2	41:q0:85:LEU:HD11	2.00	0.42
17:m6:69:GLY:O	17:m6:70:PRO:C	2.62	0.42
22:n1:57:TYR:HA	22:n1:60:LYS:HD3	2.01	0.42
29:n8:18:GLY:H	29:n8:19:LYS:NZ	2.17	0.42
33:o2:11:LYS:O	33:o2:12:LYS:HB3	2.17	0.42
37:o6:5:THR:OG1	37:o6:7:ILE:HG22	2.19	0.42
43:q2:32:LYS:HA	43:q2:32:LYS:HD2	1.73	0.42
45:6:480:G:C2	45:6:509:G:C2	3.07	0.42
45:6:577:G:H3'	45:6:577:G:H8	1.83	0.42
45:6:739:G:H2'	45:6:740:A:C8	2.54	0.42
45:6:1032:G:OP1	85:6:2166:LLL:H832	2.19	0.42
45:6:1559:A:C4	64:c8:134:ARG:HB3	2.54	0.42
45:6:1592:A:H2'	45:6:1593:A:H8	1.84	0.42
46:s0:146:LEU:HB3	46:s0:162:CYS:SG	2.59	0.42
52:s6:76:LEU:CD2	52:s6:92:ARG:HB2	2.49	0.42
56:c0:24:LYS:HA	56:c0:63:TYR:CD1	2.54	0.42
56:c0:44:LYS:HA	56:c0:47:GLN:HB3	2.01	0.42
57:c1:127:GLN:HG3	57:c1:137:PHE:CZ	2.54	0.42
64:c8:91:ASP:HB2	64:c8:98:TYR:CE2	2.54	0.42
65:c9:70:GLN:HG3	65:c9:120:GLY:O	2.19	0.42
68:d2:89:TRP:HE3	68:d2:93:LEU:HD22	1.83	0.42
70:d4:21:LYS:N	70:d4:75:VAL:O	2.39	0.42
1:1:1331:U:OP1	85:1:3994:LLL:N21	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1655:G:H8	1:1:1655:G:C5'	2.31	0.42
1:1:2249:G:OP1	1:1:2273:G:H8	2.03	0.42
1:1:2403:G:N2	1:1:2405:C:C2	2.87	0.42
1:1:2623:G:H2'	1:1:2624:G:C8	2.53	0.42
1:1:2745:G:N1	1:1:2748:A:OP2	2.49	0.42
1:1:2927:C:H2'	1:1:2928:C:C6	2.54	0.42
1:1:2931:C:OP1	24:N3:59:MET:HE3	2.19	0.42
1:1:3172:A:C6	34:O3:92:LYS:HD2	2.54	0.42
2:3:25:G:C2	2:3:26:C:C2	3.07	0.42
4:L2:219:ILE:HG22	4:L2:221:LYS:O	2.20	0.42
6:L4:185:LYS:HE2	6:L4:185:LYS:HB2	1.90	0.42
6:L4:350:LYS:HG2	6:L4:351:PRO:HD2	1.99	0.42
9:L7:74:SER:HB3	22:N1:141:VAL:O	2.19	0.42
22:N1:40:VAL:HB	22:N1:96:ILE:HG23	2.01	0.42
25:N4:50:ALA:HA	25:N4:55:PHE:CD1	2.54	0.42
26:N5:105:VAL:HG12	26:N5:106:ASP:N	2.34	0.42
32:O1:19:ARG:HB3	32:O1:35:GLU:HG2	2.01	0.42
36:O5:83:LYS:HA	36:O5:83:LYS:HD3	1.90	0.42
45:2:304:U:H2'	45:2:305:C:C6	2.54	0.42
45:2:1400:A:H4'	63:C7:60:ARG:HH22	1.84	0.42
45:2:1608:U:O3'	62:C6:73:GLY:HA3	2.19	0.42
46:S0:88:LYS:N	46:S0:88:LYS:HD2	2.34	0.42
47:S1:48:VAL:HG22	47:S1:64:ARG:NH2	2.34	0.42
48:S2:54:GLU:OE2	48:S2:54:GLU:N	2.40	0.42
58:C2:79:ALA:O	58:C2:86:VAL:HA	2.17	0.42
61:C5:60:LEU:HD21	61:C5:92:SER:HB3	2.00	0.42
75:D9:4:GLU:OE1	75:D9:4:GLU:N	2.52	0.42
78:SR:180:ALA:HB2	78:SR:192:PHE:HE2	1.84	0.42
1:5:104:G:O2'	1:5:698:U:O2	2.21	0.42
1:5:693:A:C4	1:5:694:C:C5	3.07	0.42
1:5:709:A:H8	1:5:709:A:O5'	2.02	0.42
1:5:941:G:C2'	1:5:942:U:H5'	2.49	0.42
1:5:1131:G:C4	1:5:2373:A:C2	3.08	0.42
1:5:1269:U:O2'	1:5:1271:A:N7	2.29	0.42
1:5:1771:C:H2'	1:5:1772:U:O4'	2.19	0.42
1:5:2661:G:O2'	1:5:2662:G:H5'	2.18	0.42
1:5:3225:C:H2'	1:5:3226:A:C8	2.54	0.42
85:5:4168:LLL:H531	14:m3:178:LYS:HZ2	1.82	0.42
3:8:138:A:P	85:8:222:LLL:H122	2.42	0.42
4:l2:225:ILE:HG21	4:l2:234:LYS:HA	2.01	0.42
5:l3:10:ARG:NH2	5:l3:263:SER:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:11:HIS:CD2	5:l3:235:THR:HA	2.54	0.42
6:l4:330:TYR:CZ	9:l7:49:ALA:HA	2.54	0.42
7:l5:55:PHE:CD1	7:l5:60:ILE:HG12	2.54	0.42
7:l5:146:LEU:HD13	7:l5:148:ILE:HD11	2.00	0.42
7:l5:197:SER:OG	7:l5:202:GLY:HA3	2.19	0.42
9:l7:151:ARG:HD3	9:l7:207:LEU:HD23	2.01	0.42
10:l8:42:PRO:HD2	10:l8:44:ARG:HH12	1.83	0.42
11:l9:47:LYS:HB2	15:m4:7:VAL:HB	2.01	0.42
11:l9:94:TYR:CE2	11:l9:98:PRO:HA	2.54	0.42
11:l9:137:SER:HB2	11:l9:140:VAL:HG13	2.01	0.42
11:l9:174:LYS:HB2	41:q0:127:LEU:HD11	2.01	0.42
12:m0:10:ARG:NH2	12:m0:56:GLU:OE1	2.52	0.42
14:m3:116:LEU:HD23	14:m3:116:LEU:HA	1.66	0.42
18:m7:59:PRO:HG3	18:m7:76:PHE:CG	2.54	0.42
20:m9:86:GLU:O	20:m9:86:GLU:HG3	2.18	0.42
26:n5:34:LEU:HD22	26:n5:35:PRO:HD2	2.01	0.42
36:o5:85:THR:HB	36:o5:88:LEU:HD12	2.01	0.42
37:o6:26:ILE:HD12	37:o6:27:SER:N	2.33	0.42
45:6:507:U:H2'	45:6:508:U:O4'	2.19	0.42
45:6:593:U:H5	76:e0:36:LYS:NZ	2.16	0.42
45:6:822:U:C3'	45:6:823:G:H5''	2.49	0.42
45:6:1241:G:H1'	61:c5:79:HIS:HB2	2.01	0.42
45:6:1358:G:H2'	45:6:1359:C:C6	2.55	0.42
45:6:1381:U:H1'	45:6:1516:A:N6	2.34	0.42
45:6:1458:G:O5'	45:6:1459:C:H5	2.01	0.42
45:6:1488:G:H3'	45:6:1515:A:H61	1.83	0.42
46:s0:36:TYR:OH	46:s0:56:LYS:HE3	2.19	0.42
47:s1:119:THR:O	47:s1:142:PHE:HA	2.19	0.42
47:s1:183:GLN:HA	47:s1:186:SER:HB2	2.01	0.42
48:s2:40:LYS:HA	48:s2:43:ARG:HD2	2.00	0.42
49:s3:17:PHE:HE1	49:s3:77:PHE:CD2	2.37	0.42
49:s3:71:LEU:HD23	49:s3:71:LEU:HA	1.84	0.42
54:s8:76:THR:HG21	54:s8:105:ASP:O	2.19	0.42
58:c2:87:PRO:O	58:c2:88:LEU:HB2	2.18	0.42
67:d1:20:THR:C	67:d1:22:ARG:H	2.28	0.42
69:d3:97:ASP:O	69:d3:100:ASP:HB2	2.19	0.42
69:d3:107:PHE:CD1	69:d3:114:LYS:HD2	2.54	0.42
78:sR:109:ASP:N	78:sR:109:ASP:OD1	2.50	0.42
1:1:191:U:H2'	1:1:192:C:C6	2.55	0.42
1:1:619:A:H5'	1:1:620:U:C1'	2.49	0.42
1:1:650:C:O2'	1:1:651:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:679:U:H2'	1:1:680:G:H8	1.83	0.42
1:1:711:A:N7	1:1:712:G:H1'	2.34	0.42
1:1:1324:U:P	21:N0:2:ALA:HA	2.59	0.42
1:1:1560:G:O6	26:N5:36:LYS:NZ	2.44	0.42
1:1:2245:C:O4'	4:L2:222:ALA:HA	2.18	0.42
1:1:2357:A:H2'	1:1:2358:A:C8	2.54	0.42
1:1:2808:A:N7	1:1:2955:U:H4'	2.34	0.42
1:1:2933:A:OP1	1:1:3015:G:H4'	2.19	0.42
1:1:3217:C:C5	1:1:3220:G:H1'	2.54	0.42
1:1:3353:G:O2'	1:1:3356:G:H5'	2.19	0.42
2:3:12:U:O2	2:3:110:G:O2'	2.30	0.42
2:3:105:C:OP1	85:3:220:LLL:N61	2.51	0.42
4:L2:227:ARG:HG2	4:L2:239:ALA:CB	2.49	0.42
7:L5:196:ARG:NH2	7:L5:237:GLU:OE1	2.50	0.42
7:L5:260:PHE:HD1	7:L5:264:GLN:OE1	2.02	0.42
11:L9:38:LEU:HD23	11:L9:38:LEU:HA	1.63	0.42
13:M1:82:ARG:HG2	13:M1:112:LEU:HB2	2.00	0.42
13:M1:84:LEU:HD11	13:M1:163:PHE:HE1	1.84	0.42
15:M4:113:THR:HG22	15:M4:116:GLU:CG	2.49	0.42
26:N5:114:VAL:HB	40:O9:10:LYS:HZ3	1.83	0.42
45:2:23:G:O2'	45:2:368:U:H5''	2.19	0.42
45:2:153:G:P	70:D4:131:ARG:HH12	2.43	0.42
45:2:778:G:H5'	45:2:780:A:C2	2.54	0.42
45:2:835:U:C4	45:2:836:U:C4	3.06	0.42
45:2:856:A:N6	53:S7:96:ARG:HB3	2.34	0.42
45:2:1347:U:O2	45:2:1516:A:H5'	2.18	0.42
45:2:1474:G:OP1	51:S5:109:LYS:HE2	2.18	0.42
46:S0:22:THR:HG22	46:S0:169:SER:HB3	2.02	0.42
46:S0:198:MET:SD	46:S0:199:PRO:HD2	2.59	0.42
47:S1:69:CYS:O	47:S1:72:ASP:HB2	2.19	0.42
47:S1:176:VAL:C	47:S1:178:GLY:H	2.28	0.42
48:S2:144:TRP:CH2	48:S2:173:PRO:HG3	2.55	0.42
48:S2:170:ILE:HB	48:S2:197:TYR:HB2	2.01	0.42
49:S3:101:GLN:HG3	49:S3:126:VAL:CG2	2.50	0.42
49:S3:217:ILE:HG23	49:S3:218:LEU:N	2.24	0.42
50:S4:37:LYS:HB2	50:S4:40:GLU:HG3	2.01	0.42
51:S5:37:GLN:HG2	62:C6:53:LEU:HD13	2.00	0.42
51:S5:139:ASN:ND2	51:S5:201:ALA:O	2.50	0.42
53:S7:86:GLN:O	53:S7:87:ASP:HB2	2.19	0.42
54:S8:83:TYR:HB3	54:S8:101:ILE:HB	2.00	0.42
62:C6:33:GLY:O	65:C9:7:ARG:HD3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:C8:145:ARG:HD3	79:SM:68:ARG:NE	2.34	0.42
65:C9:16:ASN:O	65:C9:20:SER:N	2.47	0.42
68:D2:22:LYS:HG3	73:D7:3:LEU:HA	2.01	0.42
70:D4:84:LYS:HE3	70:D4:84:LYS:HB2	1.91	0.42
1:5:68:C:O3'	16:m5:177:GLY:HA3	2.19	0.42
1:5:315:C:N4	1:5:316:U:O4	2.51	0.42
1:5:401:U:O2'	40:o9:36:ARG:NH2	2.49	0.42
1:5:404:G:H2'	1:5:405:U:O4'	2.18	0.42
1:5:677:A:OP1	19:m8:89:ASP:HB3	2.19	0.42
1:5:871:U:H2'	1:5:872:U:C6	2.54	0.42
1:5:993:G:N3	1:5:2637:A:H2'	2.34	0.42
1:5:1533:U:C2'	1:5:1534:A:H5'	2.50	0.42
1:5:1939:G:OP1	20:m9:77:GLY:HA3	2.19	0.42
1:5:2775:U:H1'	29:n8:58:MET:SD	2.60	0.42
2:7:45:A:OP1	7:l5:151:GLN:NE2	2.41	0.42
5:l3:187:SER:O	5:l3:190:GLU:N	2.52	0.42
6:l4:261:VAL:O	6:l4:269:SER:OG	2.36	0.42
14:m3:126:PHE:CE1	14:m3:133:PRO:HG2	2.54	0.42
16:m5:153:ASP:CG	16:m5:154:PRO:HD2	2.44	0.42
23:n2:36:TYR:CD1	23:n2:83:TYR:HD1	2.37	0.42
26:n5:83:VAL:HG22	26:n5:123:TYR:HD1	1.84	0.42
32:o1:29:ALA:HB3	32:o1:30:PRO:HD3	2.01	0.42
82:p0:25:LEU:HG	82:p0:191:TYR:HB3	2.01	0.42
45:6:151:G:N2	45:6:163:G:H22	2.18	0.42
45:6:300:A:H2'	45:6:301:A:C8	2.54	0.42
45:6:452:A:H3'	45:6:453:U:C5	2.54	0.42
45:6:567:A:H4'	76:e0:13:LYS:HB2	2.02	0.42
45:6:647:G:H22	45:6:687:G:H22	1.65	0.42
45:6:1079:U:H2'	45:6:1080:U:O4'	2.20	0.42
45:6:1362:U:C2	45:6:1363:U:C4	3.08	0.42
45:6:1403:C:H2'	45:6:1404:C:C6	2.55	0.42
45:6:1478:G:C6	45:6:1479:A:C5	3.07	0.42
45:6:1494:C:H2'	45:6:1495:C:C6	2.55	0.42
45:6:1580:C:H2'	45:6:1581:C:O4'	2.19	0.42
45:6:1634:C:H4'	45:6:1635:A:OP2	2.19	0.42
45:6:1769:U:O2	60:c4:136:ARG:HD2	2.19	0.42
47:s1:124:ASN:HB3	47:s1:138:PHE:CD1	2.54	0.42
48:s2:76:LEU:HA	48:s2:106:ASP:HA	2.01	0.42
48:s2:152:HIS:N	48:s2:152:HIS:CD2	2.87	0.42
49:s3:115:ILE:HB	49:s3:116:ARG:H	1.61	0.42
50:s4:73:ASP:HB3	50:s4:164:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s8:184:LEU:HB3	54:s8:189:LEU:HB2	2.01	0.42
56:c0:27:PHE:C	56:c0:29:GLN:H	2.27	0.42
64:c8:120:ARG:CD	79:sM:61:ILE:HG21	2.49	0.42
68:d2:6:VAL:HA	68:d2:9:ASP:HB2	2.00	0.42
79:sM:33:LYS:HE3	79:sM:33:LYS:HB2	1.63	0.42
1:1:189:G:C6	1:1:206:G:C5	3.08	0.42
1:1:435:C:H2'	1:1:436:A:O4'	2.19	0.42
1:1:1015:U:H1'	1:1:1016:C:P	2.59	0.42
1:1:1361:U:H2'	1:1:1362:G:H8	1.84	0.42
1:1:1857:C:N4	1:1:1858:A:N6	2.67	0.42
1:1:2297:U:C2	1:1:2299:A:C6	3.07	0.42
1:1:2619:G:OP1	12:M0:113:GLN:C	2.63	0.42
1:1:2641:U:H5''	1:1:2642:A:OP1	2.19	0.42
1:1:2665:U:H4'	1:1:2666:C:OP1	2.19	0.42
1:1:2783:U:H2'	1:1:2784:G:O4'	2.20	0.42
1:1:3063:C:H2'	1:1:3064:U:H6	1.84	0.42
1:1:3206:C:H2'	15:M4:99:TRP:CZ2	2.54	0.42
1:1:3341:U:HO2'	1:1:3342:A:P	2.41	0.42
2:3:85:G:O3'	9:L7:218:ARG:NH2	2.52	0.42
4:L2:32:LEU:HD23	4:L2:32:LEU:HA	1.87	0.42
5:L3:296:THR:HG23	5:L3:298:PHE:N	2.33	0.42
10:L8:156:ASP:OD2	10:L8:156:ASP:N	2.52	0.42
14:M3:25:HIS:CD2	16:M5:200:TRP:CD2	3.08	0.42
16:M5:38:ARG:HH21	16:M5:60:VAL:HG13	1.83	0.42
16:M5:47:LYS:HA	16:M5:50:ARG:CZ	2.50	0.42
20:M9:21:LYS:HA	20:M9:53:LYS:HD3	2.01	0.42
22:N1:160:ILE:HD12	22:N1:160:ILE:HA	1.81	0.42
37:O6:97:SER:OG	37:O6:98:ARG:N	2.52	0.42
45:2:90:C:H2'	45:2:91:G:C8	2.54	0.42
45:2:624:G:H2'	45:2:625:C:H6	1.84	0.42
45:2:814:A:H61	45:2:857:U:H3	1.68	0.42
45:2:819:G:O6	45:2:853:G:N1	2.52	0.42
45:2:1087:A:H2'	45:2:1088:A:C8	2.54	0.42
45:2:1514:U:H1'	49:S3:6:SER:HA	2.01	0.42
45:2:1774:G:H2'	45:2:1775:U:O4'	2.19	0.42
47:S1:87:ARG:HE	47:S1:87:ARG:HB3	1.66	0.42
47:S1:92:GLN:HG2	47:S1:95:ASN:O	2.19	0.42
47:S1:195:LYS:O	47:S1:198:GLU:N	2.53	0.42
50:S4:46:VAL:HA	50:S4:50:ASN:OD1	2.19	0.42
54:S8:184:LEU:O	54:S8:189:LEU:HD13	2.20	0.42
57:C1:13:PHE:CE2	57:C1:15:LYS:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:C1:97:TYR:O	57:C1:99:ARG:HG2	2.20	0.42
58:C2:43:ARG:HD3	58:C2:43:ARG:H	1.84	0.42
59:C3:89:TYR:CZ	59:C3:93:LYS:HD2	2.55	0.42
60:C4:28:VAL:O	60:C4:41:ARG:O	2.38	0.42
66:D0:24:ILE:HG23	66:D0:116:VAL:HG12	2.02	0.42
73:D7:62:ILE:HD11	73:D7:65:THR:HG23	2.00	0.42
1:5:625:G:H2'	1:5:626:U:O4'	2.20	0.42
1:5:845:G:O2'	1:5:847:A:N7	2.49	0.42
1:5:1065:A:C5	30:n9:28:LYS:HB2	2.54	0.42
1:5:1208:U:H2'	41:q0:109:ASN:OD1	2.19	0.42
1:5:1485:G:H5''	1:5:1875:G:H1'	2.01	0.42
1:5:1770:G:H5'	1:5:1771:C:OP2	2.19	0.42
1:5:1832:C:O2'	40:o9:7:PHE:HB2	2.18	0.42
1:5:2421:U:H4'	43:q2:53:GLN:HB3	2.01	0.42
1:5:2634:U:C2	1:5:2645:G:C6	3.07	0.42
5:l3:224:HIS:HB2	5:l3:270:ARG:HG2	2.00	0.42
5:l3:299:ASP:OD1	5:l3:301:THR:HG23	2.19	0.42
6:l4:285:ASP:O	6:l4:289:ILE:HG13	2.19	0.42
6:l4:317:PRO:HG3	6:l4:323:VAL:HG12	2.01	0.42
15:m4:23:ILE:HA	15:m4:63:VAL:HG23	2.00	0.42
16:m5:116:LEU:HD12	16:m5:116:LEU:HA	1.81	0.42
16:m5:172:ARG:CZ	16:m5:174:ILE:HD11	2.49	0.42
22:n1:39:ILE:HG12	22:n1:63:VAL:HG22	2.00	0.42
36:o5:101:THR:O	36:o5:105:ARG:N	2.45	0.42
37:o6:4:LYS:HD2	37:o6:14:GLY:HA3	2.02	0.42
38:o7:39:TYR:CD2	38:o7:40:PRO:HA	2.54	0.42
45:6:461:G:OP1	55:s9:2:PRO:HG2	2.19	0.42
45:6:636:A:C2	45:6:861:U:C2	3.07	0.42
45:6:888:U:O2	45:6:988:A:O2'	2.35	0.42
45:6:1086:A:H5'	48:s2:164:SER:CB	2.48	0.42
45:6:1413:U:H4'	63:c7:3:ARG:HH11	1.84	0.42
45:6:1631:A:O5'	45:6:1631:A:H8	2.01	0.42
45:6:1797:A:C4	72:d6:87:ARG:NH1	2.88	0.42
46:s0:8:ASP:O	46:s0:10:THR:HG23	2.18	0.42
46:s0:78:SER:HA	46:s0:100:GLY:O	2.19	0.42
47:s1:68:VAL:HB	47:s1:73:LEU:CD2	2.49	0.42
49:s3:108:LYS:HD3	49:s3:118:ALA:HA	2.02	0.42
54:s8:151:LYS:HA	54:s8:151:LYS:HD2	1.39	0.42
60:c4:105:LEU:HD23	60:c4:105:LEU:HA	1.92	0.42
67:d1:5:LYS:O	67:d1:7:GLN:HG3	2.20	0.42
67:d1:87:ARG:C	73:d7:11:THR:HG23	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d6:12:LYS:HE2	72:d6:12:LYS:HB3	1.44	0.42
72:d6:43:ASN:HB3	72:d6:64:LEU:HD13	2.01	0.42
78:sR:74:THR:CG2	78:sR:79:TYR:HB2	2.49	0.42
1:1:12:A:H2'	1:1:13:A:H5''	2.02	0.42
1:1:54:C:O2'	1:1:1547:G:H1'	2.20	0.42
1:1:259:C:H2'	1:1:260:C:C6	2.54	0.42
1:1:1034:U:H2'	1:1:1035:G:O4'	2.19	0.42
1:1:1211:U:H2'	1:1:1212:A:C8	2.55	0.42
1:1:1295:G:O2'	21:N0:115:ARG:NH1	2.38	0.42
1:1:1506:A:C5	1:1:1510:G:C6	3.07	0.42
1:1:1596:C:H2'	1:1:1597:C:C6	2.54	0.42
1:1:2659:G:C2	1:1:2712:U:O2	2.72	0.42
4:L2:40:TYR:HA	4:L2:90:ALA:O	2.20	0.42
4:L2:46:LYS:HD2	4:L2:46:LYS:HA	1.86	0.42
6:L4:191:LYS:HG2	6:L4:194:TYR:CE2	2.55	0.42
10:L8:63:LYS:HG2	10:L8:64:ILE:HG13	2.02	0.42
18:M7:52:LEU:HA	18:M7:52:LEU:HD12	1.83	0.42
27:N6:51:ARG:HB3	27:N6:115:ARG:NH2	2.34	0.42
29:N8:118:ILE:HB	29:N8:119:PRO:HD2	2.02	0.42
31:O0:70:PHE:CD1	31:O0:77:LEU:HD13	2.54	0.42
45:2:577:G:C8	45:2:577:G:H3'	2.53	0.42
45:2:756:A:C5	45:2:757:A:C8	3.08	0.42
45:2:795:U:C5	45:2:796:A:C8	3.08	0.42
45:2:959:U:C6	59:C3:61:THR:HB	2.54	0.42
45:2:1226:A:O2'	45:2:1227:A:OP1	2.36	0.42
45:2:1455:G:H2'	45:2:1456:C:O2	2.20	0.42
45:2:1682:U:O2'	45:2:1683:C:OP2	2.27	0.42
49:S3:219:ALA:HB1	49:S3:220:PRO:HD2	2.01	0.42
51:S5:132:VAL:HA	51:S5:135:ASP:HB2	2.01	0.42
54:S8:142:LYS:H	54:S8:142:LYS:HG3	1.66	0.42
58:C2:62:LEU:HD13	58:C2:75:VAL:HB	2.02	0.42
65:C9:118:PRO:HD2	65:C9:123:ARG:HH22	1.84	0.42
66:D0:58:LEU:HB2	66:D0:88:LYS:O	2.19	0.42
66:D0:68:ARG:HG2	66:D0:79:TRP:CH2	2.54	0.42
67:D1:1:MET:HE3	67:D1:10:GLU:O	2.20	0.42
72:D6:37:LYS:C	72:D6:38:ARG:HD2	2.44	0.42
74:D8:32:PHE:HZ	74:D8:38:ARG:HB3	1.83	0.42
78:SR:52:GLN:H	78:SR:52:GLN:CD	2.28	0.42
1:5:937:G:C6	1:5:2410:U:H5''	2.55	0.42
1:5:970:A:H1'	1:5:1112:A:N1	2.34	0.42
1:5:1038:C:H2'	1:5:1039:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1326:A:H2'	1:5:1327:C:O4'	2.19	0.42
1:5:1422:G:H2'	1:5:1423:C:C6	2.53	0.42
1:5:1834:U:OP1	40:o9:5:LYS:HD2	2.19	0.42
2:7:8:G:H2'	2:7:9:C:O4'	2.20	0.42
2:7:57:G:H3'	2:7:58:C:C6	2.54	0.42
4:l2:47:GLN:HA	4:l2:84:THR:HG22	2.00	0.42
6:l4:144:LYS:HD2	6:l4:145:ILE:HG23	2.02	0.42
12:m0:101:LYS:O	12:m0:103:LEU:HG	2.20	0.42
13:m1:159:THR:HA	13:m1:162:TRP:HB3	2.02	0.42
19:m8:158:HIS:H	19:m8:186:VAL:CG1	2.27	0.42
28:n7:47:GLU:HG2	28:n7:69:LYS:HD3	2.02	0.42
31:o0:17:VAL:HG21	31:o0:100:ILE:HD13	2.01	0.42
31:o0:54:SER:HB3	35:o4:94:LEU:HD13	2.01	0.42
34:o3:54:ARG:CZ	34:o3:64:ILE:HD11	2.49	0.42
36:o5:40:SER:C	36:o5:42:PRO:HD3	2.44	0.42
45:6:193:U:C4	45:6:195:G:C8	3.08	0.42
45:6:538:A:H4'	45:6:538:A:OP1	2.20	0.42
45:6:637:C:O2	53:s7:114:ARG:NH2	2.36	0.42
47:s1:45:LYS:O	60:c4:33:LEU:HD23	2.19	0.42
49:s3:124:ARG:HG2	79:sM:127:ALA:CB	2.49	0.42
49:s3:210:GLU:CD	63:c7:19:ARG:HH11	2.28	0.42
51:s5:200:ASN:O	51:s5:205:SER:HB3	2.19	0.42
55:s9:68:LYS:O	55:s9:72:GLU:HB2	2.19	0.42
64:c8:72:ILE:HG12	64:c8:79:TYR:CE1	2.55	0.42
70:d4:105:ARG:O	70:d4:109:LYS:HG3	2.19	0.42
78:sR:37:SER:OG	78:sR:38:ARG:N	2.52	0.42
78:sR:178:VAL:HB	78:sR:192:PHE:HB2	2.02	0.42
1:1:495:G:H1	1:1:618:C:H42	1.68	0.42
1:1:1202:A:N6	1:1:1301:A:C4	2.88	0.42
1:1:1337:A:C5	1:1:1338:C:C5	3.08	0.42
1:1:1444:G:H2'	1:1:1445:U:O4'	2.20	0.42
1:1:1523:U:OP1	1:1:1607:U:N3	2.42	0.42
1:1:1536:G:C4	1:1:1537:A:C8	3.08	0.42
1:1:1585:C:H2'	1:1:1586:G:O4'	2.20	0.42
1:1:1624:G:H1	1:1:1819:U:H3	1.67	0.42
1:1:2260:U:C4	1:1:2261:G:C6	3.08	0.42
1:1:2523:A:O2'	1:1:2587:U:H1'	2.20	0.42
1:1:3091:A:H2'	1:1:3094:A:N7	2.35	0.42
1:1:3204:C:O2'	1:1:3205:G:H5'	2.19	0.42
1:1:3335:A:H2'	1:1:3336:A:H8	1.83	0.42
6:L4:329:PRO:HB3	9:L7:41:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L7:77:VAL:HG22	22:N1:139:ARG:O	2.19	0.42
11:L9:118:LEU:HD21	11:L9:177:ASP:CG	2.45	0.42
14:M3:106:GLN:N	37:O6:20:MET:HG3	2.35	0.42
19:M8:102:ALA:HA	19:M8:122:ILE:O	2.19	0.42
24:N3:36:ILE:HG23	24:N3:58:VAL:HB	2.00	0.42
28:N7:52:LYS:O	28:N7:65:ARG:NH1	2.53	0.42
31:O0:34:LEU:HD23	31:O0:59:TYR:HB3	2.01	0.42
32:O1:29:ALA:HB3	32:O1:30:PRO:HD3	2.02	0.42
43:Q2:54:THR:O	43:Q2:55:LYS:HG2	2.19	0.42
44:Q3:80:ARG:O	44:Q3:84:ARG:HG2	2.20	0.42
45:2:206:A:H1'	45:2:262:U:C2	2.54	0.42
45:2:754:A:N6	45:2:793:A:C5	2.87	0.42
45:2:927:C:H1'	60:C4:125:SER:HG	1.84	0.42
45:2:1164:G:O2'	45:2:1612:U:O2	2.27	0.42
46:S0:24:LEU:O	46:S0:163:ASN:ND2	2.51	0.42
47:S1:157:GLN:HB2	47:S1:160:HIS:CD2	2.54	0.42
47:S1:171:ILE:HD12	47:S1:197:ILE:HA	2.02	0.42
51:S5:164:PRO:HD3	74:D8:54:LEU:HD13	2.00	0.42
51:S5:165:LEU:HD23	74:D8:47:PRO:HB2	2.01	0.42
56:C0:52:LYS:H	56:C0:52:LYS:HG2	1.64	0.42
62:C6:83:GLN:HG3	62:C6:116:LEU:O	2.20	0.42
64:C8:90:ASN:O	64:C8:95:GLY:HA2	2.20	0.42
66:D0:63:LEU:HB3	75:D9:34:TYR:CE2	2.54	0.42
78:SR:193:ILE:HG22	78:SR:194:GLY:H	1.85	0.42
1:5:194:U:H2'	1:5:195:U:H6	1.84	0.42
1:5:283:G:O2'	29:n8:59:ARG:NH1	2.52	0.42
1:5:908:G:H3'	16:m5:81:TYR:OH	2.18	0.42
1:5:1066:G:C6	1:5:1067:U:C4	3.08	0.42
1:5:1085:A:H5''	1:5:1085:A:H8	1.85	0.42
1:5:1919:G:O5'	1:5:1919:G:H8	2.02	0.42
1:5:2098:C:O2'	1:5:2099:A:P	2.77	0.42
1:5:2119:A:H8	1:5:2119:A:O5'	2.02	0.42
1:5:2977:G:H5''	1:5:2977:G:H8	1.85	0.42
1:5:3178:A:C2	17:m6:115:LYS:HG2	2.55	0.42
3:8:38:U:H5	36:o5:82:ALA:O	2.03	0.42
3:8:87:G:HO2'	3:8:88:A:P	2.43	0.42
7:l5:34:LYS:HA	22:n1:27:LEU:HD11	2.00	0.42
7:l5:227:LEU:HA	7:l5:227:LEU:HD12	1.82	0.42
8:l6:52:VAL:HG13	8:l6:65:ILE:HG23	2.02	0.42
8:l6:64:LEU:O	8:l6:65:ILE:HD13	2.20	0.42
11:l9:92:TYR:CD2	11:l9:92:TYR:N	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l9:137:SER:HB2	11:l9:143:GLU:CB	2.49	0.42
11:l9:180:TYR:HB2	41:q0:85:LEU:CD1	2.49	0.42
12:m0:19:LYS:HA	12:m0:23:ASN:ND2	2.34	0.42
13:m1:36:VAL:HG21	13:m1:123:PHE:CD2	2.54	0.42
13:m1:116:TYR:CD1	13:m1:116:TYR:C	2.97	0.42
17:m6:73:PHE:HD1	17:m6:78:ARG:HG3	1.85	0.42
18:m7:14:SER:HB3	18:m7:151:THR:OG1	2.20	0.42
18:m7:125:GLN:HB2	18:m7:141:SER:HB2	2.02	0.42
19:m8:121:CYS:C	19:m8:122:ILE:HD12	2.44	0.42
23:n2:98:THR:CG2	23:n2:104:ARG:HE	2.33	0.42
28:n7:81:LEU:HD22	28:n7:81:LEU:HA	1.66	0.42
31:o0:34:LEU:HD12	31:o0:34:LEU:HA	1.86	0.42
33:o2:74:PHE:CG	33:o2:85:LEU:HD21	2.54	0.42
36:o5:44:ILE:O	36:o5:48:ARG:HG3	2.20	0.42
45:6:146:U:C4	45:6:167:U:C4	3.07	0.42
45:6:252:U:H4'	50:s4:131:LEU:HD12	2.02	0.42
45:6:593:U:OP2	55:s9:39:LYS:HB2	2.20	0.42
45:6:705:U:H2'	45:6:706:A:C8	2.55	0.42
45:6:865:A:H2'	45:6:866:G:H8	1.85	0.42
45:6:951:A:C2	45:6:952:A:C8	3.07	0.42
45:6:1086:A:H2'	45:6:1087:A:C8	2.55	0.42
45:6:1092:A:C5	45:6:1094:G:C8	3.07	0.42
45:6:1227:A:H3'	58:c2:118:ALA:HA	2.01	0.42
45:6:1319:A:C6	45:6:1320:U:C2	3.07	0.42
45:6:1459:C:OP2	45:6:1459:C:H6	2.03	0.42
47:s1:103:MET:H	47:s1:215:VAL:HG13	1.84	0.42
49:s3:176:LEU:HD12	49:s3:176:LEU:O	2.20	0.42
49:s3:202:LEU:C	49:s3:204:ASP:N	2.77	0.42
50:s4:71:LYS:HD2	50:s4:91:THR:HB	2.00	0.42
50:s4:216:ASN:OD1	50:s4:216:ASN:N	2.51	0.42
54:s8:65:PHE:HA	54:s8:181:GLY:O	2.20	0.42
57:c1:134:THR:O	57:c1:136:ARG:HD2	2.20	0.42
61:c5:111:MET:HG2	64:c8:119:ILE:CD1	2.39	0.42
62:c6:49:TYR:O	62:c6:52:LEU:N	2.53	0.42
66:d0:101:LYS:HD3	66:d0:101:LYS:HA	1.86	0.42
67:d1:5:LYS:O	67:d1:7:GLN:N	2.51	0.42
67:d1:36:VAL:HB	67:d1:51:VAL:HB	2.02	0.42
73:d7:42:ASN:HB2	73:d7:56:CYS:SG	2.60	0.42
77:e1:107:LYS:H	77:e1:117:LEU:HD12	1.84	0.42
1:1:65:A:H4'	1:1:66:A:O5'	2.19	0.42
1:1:250:U:H3'	1:1:251:G:C5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:718:G:N2	1:1:721:G:H1'	2.34	0.42
1:1:802:C:H2'	1:1:803:C:C6	2.54	0.42
1:1:920:A:H8	1:1:920:A:OP2	2.03	0.42
1:1:1397:C:H2'	1:1:1398:U:C6	2.55	0.42
1:1:1688:U:H2'	1:1:1689:U:C6	2.55	0.42
1:1:2152:A:H2'	1:1:2153:U:H6	1.85	0.42
1:1:2363:A:C6	1:1:2364:G:C6	3.08	0.42
7:L5:51:LEU:N	7:L5:145:PHE:O	2.32	0.42
8:L6:57:HIS:NE2	8:L6:61:ASN:HA	2.35	0.42
12:M0:48:LEU:HD22	12:M0:49:CYS:H	1.85	0.42
12:M0:56:GLU:C	12:M0:131:ILE:HG12	2.45	0.42
12:M0:210:ILE:HG23	12:M0:217:PHE:CD2	2.55	0.42
15:M4:55:ARG:HG2	21:N0:70:THR:HB	2.01	0.42
16:M5:35:VAL:O	16:M5:64:VAL:HA	2.18	0.42
17:M6:89:SER:O	17:M6:91:LYS:N	2.53	0.42
25:N4:62:GLY:O	25:N4:63:ILE:HG23	2.18	0.42
30:N9:28:LYS:HB3	30:N9:29:TYR:HD1	1.85	0.42
30:N9:44:LYS:HB2	30:N9:44:LYS:HE2	1.95	0.42
33:O2:127:ALA:O	33:O2:128:LEU:HB2	2.20	0.42
35:O4:20:ILE:HD13	35:O4:20:ILE:HA	1.81	0.42
38:O7:18:LEU:HD21	40:O9:51:ILE:HG23	2.01	0.42
38:O7:29:VAL:O	38:O7:32:LYS:HG2	2.19	0.42
42:Q1:7:LYS:HE2	42:Q1:11:ARG:CZ	2.50	0.42
43:Q2:83:LEU:HD22	43:Q2:83:LEU:HA	1.84	0.42
44:Q3:39:CYS:HB2	44:Q3:47:VAL:HG23	2.01	0.42
45:2:161:U:OP2	52:S6:87:ARG:NH2	2.52	0.42
45:2:233:C:O2'	45:2:234:G:P	2.77	0.42
45:2:453:U:O2	45:2:453:U:H2'	2.19	0.42
45:2:577:G:H3'	45:2:577:G:H8	1.85	0.42
45:2:877:G:H5'	45:2:937:C:H1'	2.01	0.42
45:2:947:U:H2'	45:2:948:G:H8	1.85	0.42
45:2:1240:U:O2	45:2:1244:A:H2	2.02	0.42
45:2:1459:C:OP2	45:2:1459:C:H6	2.03	0.42
45:2:1632:C:O2'	45:2:1638:G:O2'	2.27	0.42
45:2:1651:A:C2	45:2:1750:A:C2	3.07	0.42
45:2:1722:A:H2'	45:2:1723:U:O4'	2.20	0.42
47:S1:119:THR:HG21	47:S1:161:ILE:HD11	2.00	0.42
49:S3:22:ASN:O	49:S3:26:THR:OG1	2.31	0.42
51:S5:129:PRO:O	51:S5:133:VAL:HG23	2.20	0.42
57:C1:33:ARG:HH12	57:C1:53:TYR:N	2.17	0.42
57:C1:53:TYR:CD1	57:C1:113:PRO:HG2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:C5:87:PRO:HG3	61:C5:112:LEU:CD1	2.49	0.42
62:C6:87:LYS:HA	62:C6:90:VAL:HG22	2.02	0.42
64:C8:125:ILE:HG12	79:SM:61:ILE:HG23	2.00	0.42
65:C9:113:ILE:C	65:C9:125:SER:HB3	2.45	0.42
78:SR:22:SER:CB	78:SR:70:ASP:HA	2.50	0.42
1:5:44:U:OP1	16:m5:84:PRO:HD2	2.19	0.42
1:5:547:G:C6	1:5:548:G:C4	3.08	0.42
1:5:661:G:N7	29:n8:19:LYS:HE2	2.35	0.42
1:5:701:G:H2'	1:5:702:C:C6	2.55	0.42
1:5:1240:A:H2'	1:5:1241:U:H5'	2.00	0.42
1:5:1481:A:O4'	1:5:1481:A:OP1	2.37	0.42
1:5:1725:C:H2'	1:5:1726:C:C6	2.53	0.42
1:5:3163:A:C6	1:5:3164:C:N4	2.88	0.42
1:5:3343:G:O2'	1:5:3362:A:N6	2.52	0.42
2:7:112:G:H2'	2:7:113:C:H6	1.85	0.42
3:8:149:A:H2'	3:8:150:G:C8	2.55	0.42
4:12:32:LEU:HD23	4:12:163:ARG:NH1	2.35	0.42
5:13:8:ALA:HB1	24:n3:45:ARG:NH1	2.35	0.42
8:16:30:LEU:HD13	8:16:34:LEU:HD12	2.01	0.42
9:17:85:PHE:HB2	9:17:139:PRO:HG3	2.02	0.42
13:m1:77:GLU:OE2	13:m1:166:LYS:NZ	2.46	0.42
18:m7:50:GLN:OE1	18:m7:56:ARG:HD3	2.20	0.42
19:m8:113:LYS:HE3	19:m8:113:LYS:HB2	1.82	0.42
20:m9:158:GLU:HA	20:m9:161:ALA:HB3	2.01	0.42
22:n1:79:MET:HE3	22:n1:81:GLY:O	2.20	0.42
27:n6:37:LYS:HA	27:n6:40:ARG:HB3	2.02	0.42
32:o1:73:LEU:HD13	32:o1:93:VAL:HG11	2.01	0.42
34:o3:15:SER:HA	34:o3:94:PHE:CE1	2.55	0.42
45:6:1414:U:H5''	63:c7:3:ARG:NE	2.34	0.42
45:6:1795:U:O2	72:d6:10:ARG:NE	2.52	0.42
46:s0:20:ALA:HB3	46:s0:172:LEU:HD12	2.02	0.42
48:s2:99:LYS:HA	48:s2:117:THR:HA	2.00	0.42
48:s2:120:GLU:HG2	79:sM:120:GLU:OE2	2.19	0.42
52:s6:114:VAL:C	52:s6:115:LYS:HG2	2.45	0.42
55:s9:60:LEU:HD11	55:s9:93:LEU:HB3	2.01	0.42
62:c6:7:VAL:HG21	62:c6:92:TYR:HA	2.01	0.42
68:d2:35:ILE:O	68:d2:39:GLN:HG3	2.19	0.42
70:d4:34:ASN:HB3	70:d4:35:VAL:H	1.66	0.42
1:1:993:G:C4	1:1:2637:A:C2	3.08	0.42
1:1:1107:C:H2'	1:1:1108:U:H6	1.85	0.42
1:1:1585:C:H2'	1:1:1586:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1611:G:H2'	1:1:1612:A:C8	2.55	0.42
1:1:1693:C:O2'	1:1:1772:U:O2'	2.23	0.42
1:1:1833:G:OP1	40:O9:10:LYS:HD2	2.20	0.42
1:1:2250:G:N7	87:1:4210:HOH:O	2.37	0.42
1:1:2677:G:H1'	79:SM:51:ARG:HH22	1.84	0.42
1:1:3131:U:O2	1:1:3131:U:H2'	2.20	0.42
1:1:3174:A:C6	1:1:3175:U:C4	3.08	0.42
1:1:3180:A:H5'	17:M6:116:LYS:HB2	2.02	0.42
1:1:3322:A:P	85:L3:404:LLL:H311	2.60	0.42
2:3:59:U:C2	2:3:60:G:C8	3.07	0.42
5:L3:252:ILE:HG12	5:L3:266:ARG:NH2	2.34	0.42
6:L4:44:LYS:O	6:L4:47:ARG:HD3	2.20	0.42
6:L4:82:THR:HG23	6:L4:84:ARG:N	2.30	0.42
7:L5:131:LEU:HD23	7:L5:131:LEU:H	1.83	0.42
8:L6:59:GLU:HB2	8:L6:103:VAL:HG23	2.01	0.42
9:L7:77:VAL:HG12	21:N0:59:VAL:O	2.20	0.42
9:L7:159:GLN:O	9:L7:160:ARG:C	2.62	0.42
12:M0:87:LEU:HA	12:M0:87:LEU:HD23	1.77	0.42
14:M3:56:PRO:HG2	14:M3:74:GLY:O	2.19	0.42
17:M6:23:VAL:HB	17:M6:84:LEU:HD11	2.00	0.42
17:M6:38:ALA:O	17:M6:41:LEU:HB2	2.20	0.42
22:N1:19:PHE:C	22:N1:21:LYS:H	2.28	0.42
27:N6:45:ILE:CD1	27:N6:119:ILE:HG23	2.49	0.42
31:O0:17:VAL:HG11	31:O0:92:ILE:HD12	2.02	0.42
31:O0:43:ILE:HD11	31:O0:90:VAL:HB	2.02	0.42
34:O3:73:ARG:HG2	34:O3:82:ARG:HB2	2.02	0.42
43:Q2:29:LYS:HG2	43:Q2:30:ALA:H	1.84	0.42
45:2:3:U:H4'	45:2:4:C:OP1	2.18	0.42
45:2:35:U:H2'	45:2:36:C:C6	2.54	0.42
45:2:528:U:H2'	45:2:529:A:O4'	2.19	0.42
45:2:776:G:C2	45:2:785:U:O2	2.73	0.42
45:2:820:U:H2'	45:2:821:U:H4'	2.01	0.42
45:2:883:C:H2'	45:2:884:A:C8	2.53	0.42
45:2:1150:G:H4'	45:2:1151:A:OP2	2.20	0.42
45:2:1503:A:H2'	45:2:1504:G:O4'	2.20	0.42
46:S0:59:LEU:HD23	46:S0:59:LEU:HA	1.85	0.42
46:S0:109:ASN:H	48:S2:64:LYS:NZ	2.18	0.42
47:S1:184:LEU:O	47:S1:188:LEU:N	2.53	0.42
48:S2:40:LYS:HA	48:S2:43:ARG:NH1	2.34	0.42
50:S4:125:LYS:HB2	50:S4:226:PHE:CE1	2.55	0.42
51:S5:32:GLU:HG2	51:S5:33:VAL:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:S6:2:LYS:HB2	52:S6:2:LYS:HE3	1.79	0.42
52:S6:10:ASN:N	52:S6:10:ASN:OD1	2.52	0.42
52:S6:31:ARG:HE	52:S6:68:LEU:CD1	2.32	0.42
57:C1:57:LYS:HD3	57:C1:131:ILE:CG2	2.50	0.42
62:C6:121:SER:O	62:C6:123:ARG:HG2	2.20	0.42
63:C7:19:ARG:H	63:C7:19:ARG:HG2	1.62	0.42
63:C7:56:HIS:O	63:C7:60:ARG:HG2	2.20	0.42
78:SR:54:PHE:CG	78:SR:312:VAL:HG21	2.55	0.42
1:5:68:C:H42	1:5:75:G:H1	1.67	0.42
1:5:238:A:H2'	1:5:239:G:O4'	2.20	0.42
1:5:645:A:H1'	1:5:647:A:OP2	2.19	0.42
1:5:703:G:C6	1:5:704:U:C4	3.08	0.42
1:5:705:A:H4'	1:5:706:A:OP1	2.19	0.42
1:5:1820:U:OP1	1:5:1820:U:H3'	2.18	0.42
1:5:1903:U:O5'	1:5:1903:U:H6	2.02	0.42
1:5:1921:A:H61	1:5:1929:G:H2'	1.85	0.42
1:5:1953:G:C6	1:5:2094:C:N4	2.88	0.42
1:5:2116:G:N3	1:5:2116:G:H5'	2.35	0.42
1:5:2256:A:N6	45:6:1757:G:H5'	2.35	0.42
1:5:3241:G:H2'	1:5:3245:A:H8	1.77	0.42
3:8:67:U:H4'	38:o7:85:LYS:H	1.85	0.42
3:8:97:A:OP1	36:o5:63:ARG:NH2	2.53	0.42
6:l4:14:GLU:HB2	6:l4:15:ALA:H	1.71	0.42
10:l8:78:PHE:O	10:l8:79:GLN:HG3	2.20	0.42
11:l9:86:TYR:CE2	11:l9:151:VAL:HG22	2.54	0.42
17:m6:192:LYS:H	17:m6:192:LYS:HG2	1.55	0.42
18:m7:23:ARG:NH2	18:m7:125:GLN:OE1	2.53	0.42
21:n0:139:TYR:CD2	21:n0:140:VAL:HG23	2.55	0.42
81:n4:50:ALA:HA	81:n4:55:PHE:CD1	2.55	0.42
29:n8:77:LYS:C	29:n8:79:TRP:N	2.78	0.42
30:n9:21:ILE:HD12	30:n9:21:ILE:HA	1.79	0.42
34:o3:41:ALA:HB3	34:o3:74:THR:HG22	2.02	0.42
45:6:84:A:H3'	45:6:85:A:H8	1.85	0.42
45:6:139:C:H4'	45:6:140:A:O5'	2.18	0.42
45:6:1097:U:C4'	45:6:1098:U:H5'	2.44	0.42
45:6:1346:A:N7	45:6:1371:A:H1'	2.35	0.42
45:6:1524:A:H5'	65:c9:78:LYS:HE3	2.01	0.42
45:6:1576:A:H2'	45:6:1577:A:O4'	2.20	0.42
49:s3:76:ARG:HG3	49:s3:77:PHE:CE1	2.55	0.42
53:s7:63:PRO:C	53:s7:64:VAL:HG23	2.44	0.42
60:c4:17:ALA:O	60:c4:81:VAL:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:d1:73:ALA:O	67:d1:77:GLY:N	2.52	0.42
72:d6:23:CYS:O	72:d6:27:SER:HA	2.20	0.42
1:1:366:A:OP1	6:L4:95:ARG:NH1	2.50	0.42
1:1:2232:A:N1	1:1:2602:G:H1'	2.35	0.42
1:1:2284:C:H5''	1:1:2285:C:OP2	2.19	0.42
1:1:2387:A:C2	1:1:2388:U:H1'	2.55	0.42
1:1:3305:A:H2'	1:1:3306:U:O2	2.20	0.42
2:3:49:G:H4'	2:3:50:U:O5'	2.19	0.42
5:L3:116:ARG:NH2	5:L3:174:LYS:HD3	2.34	0.42
6:L4:192:GLY:O	6:L4:195:ARG:N	2.45	0.42
9:L7:88:ARG:HD2	9:L7:90:LYS:O	2.19	0.42
10:L8:165:PHE:HZ	16:M5:3:ALA:HB1	1.85	0.42
11:L9:86:TYR:CZ	11:L9:151:VAL:HG22	2.55	0.42
11:L9:150:SER:CB	11:L9:153:ASP:HB2	2.46	0.42
16:M5:200:TRP:CD1	16:M5:204:LYS:HG3	2.54	0.42
21:N0:10:ILE:O	21:N0:59:VAL:N	2.49	0.42
21:N0:24:LEU:O	22:N1:148:PRO:HA	2.20	0.42
21:N0:132:THR:C	21:N0:134:ASP:H	2.27	0.42
23:N2:68:THR:HG23	23:N2:69:ALA:H	1.85	0.42
23:N2:84:LEU:HD22	23:N2:93:ILE:HB	2.02	0.42
32:O1:71:LEU:HD23	32:O1:71:LEU:HA	1.82	0.42
40:O9:43:ASN:OD1	40:O9:44:TRP:N	2.53	0.42
42:Q1:1:MET:HB3	45:2:1642:G:H5'	2.01	0.42
44:Q3:30:GLU:HA	44:Q3:33:GLN:HG2	2.02	0.42
45:2:959:U:O2	45:2:959:U:H2'	2.18	0.42
45:2:1095:U:HO2'	45:2:1096:C:P	2.42	0.42
45:2:1390:U:OP1	63:C7:5:ARG:HD2	2.20	0.42
47:S1:61:LEU:HD23	47:S1:62:LYS:H	1.79	0.42
51:S5:148:ARG:CB	74:D8:22:ARG:HH12	2.32	0.42
51:S5:158:GLN:HG2	74:D8:66:LEU:HD11	2.01	0.42
53:S7:20:VAL:O	53:S7:24:PHE:N	2.51	0.42
53:S7:45:SER:OG	53:S7:46:ILE:N	2.53	0.42
55:S9:44:ARG:HG2	55:S9:48:GLN:NE2	2.34	0.42
55:S9:123:HIS:O	55:S9:127:VAL:HG23	2.20	0.42
56:C0:21:VAL:HG12	56:C0:22:VAL:H	1.85	0.42
64:C8:11:PHE:CE1	64:C8:59:GLY:HA3	2.55	0.42
68:D2:24:GLN:HG3	73:D7:5:GLN:O	2.19	0.42
74:D8:19:THR:HB	74:D8:66:LEU:HB2	2.01	0.42
78:SR:16:HIS:CE1	78:SR:43:ILE:HG12	2.54	0.42
78:SR:22:SER:HB2	78:SR:69:GLN:O	2.20	0.42
1:5:953:G:OP2	30:n9:11:ASN:ND2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1157:G:H2'	1:5:1158:A:O4'	2.20	0.42
1:5:1182:A:C6	1:5:1183:C:C4	3.07	0.42
1:5:1687:U:H1'	23:n2:75:TYR:CD2	2.55	0.42
1:5:1911:A:C2	1:5:2122:G:C8	3.06	0.42
1:5:2122:G:C6	1:5:2332:A:C2	3.07	0.42
1:5:2519:A:C2	1:5:2589:G:C2	3.08	0.42
1:5:3335:A:H5'	1:5:3335:A:C8	2.55	0.42
1:5:3386:G:H5'	32:o1:10:ARG:NE	2.35	0.42
4:l2:56:ALA:HA	4:l2:57:PRO:HD3	1.81	0.42
4:l2:86:GLN:HE21	4:l2:88:ILE:HD13	1.83	0.42
6:l4:77:VAL:CG1	6:l4:85:SER:HA	2.50	0.42
10:l8:151:VAL:HA	10:l8:199:ALA:HB2	2.02	0.42
11:l9:86:TYR:CD1	11:l9:151:VAL:HG13	2.54	0.42
12:m0:42:THR:HB	12:m0:192:ASP:OD1	2.20	0.42
12:m0:74:LYS:O	12:m0:75:TYR:C	2.63	0.42
17:m6:27:LEU:H	17:m6:27:LEU:HG	1.35	0.42
18:m7:62:ARG:HE	18:m7:62:ARG:HB2	1.54	0.42
19:m8:18:ALA:HA	19:m8:53:PHE:CE1	2.55	0.42
21:n0:170:THR:O	21:n0:170:THR:OG1	2.34	0.42
28:n7:51:LEU:HB2	28:n7:65:ARG:NH1	2.33	0.42
30:n9:22:LYS:HD2	30:n9:22:LYS:H	1.85	0.42
45:6:208:U:H2'	45:6:209:U:C6	2.54	0.42
45:6:245:U:H2'	45:6:247:A:OP2	2.19	0.42
45:6:947:U:O4	85:6:2167:LLL:H311	2.19	0.42
45:6:1203:A:C6	45:6:1555:A:C6	3.08	0.42
45:6:1476:C:N4	87:6:2247:HOH:O	2.48	0.42
45:6:1568:C:H6	45:6:1568:C:H2'	1.62	0.42
45:6:1754:A:O4'	76:e0:2:ALA:HB3	2.19	0.42
46:s0:7:PHE:CD2	46:s0:191:ARG:HD2	2.54	0.42
48:s2:63:VAL:HG13	48:s2:68:ILE:HD12	2.01	0.42
49:s3:5:ILE:HA	49:s3:5:ILE:HD13	1.82	0.42
49:s3:74:GLN:HG2	49:s3:79:TYR:O	2.20	0.42
49:s3:202:LEU:C	49:s3:204:ASP:H	2.26	0.42
53:s7:71:HIS:HB3	53:s7:131:PHE:CZ	2.54	0.42
55:s9:40:LYS:HA	55:s9:43:TYR:HB2	2.01	0.42
59:c3:25:TRP:HH2	73:d7:45:THR:HG21	1.85	0.42
66:d0:28:SER:HB2	66:d0:112:VAL:HA	2.01	0.42
67:d1:24:ILE:CD1	67:d1:56:SER:HA	2.50	0.42
72:d6:46:GLU:HG2	72:d6:47:ALA:HB2	2.01	0.42
74:d8:49:ARG:HG2	74:d8:52:ASP:OD1	2.20	0.42
77:e1:121:CYS:H	77:e1:130:VAL:HG11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:sR:2:ALA:HA	78:sR:269:TYR:CD2	2.55	0.42
78:sR:21:THR:OG1	78:sR:69:GLN:O	2.25	0.42
78:sR:149:ASP:OD1	78:sR:150:TRP:N	2.49	0.42
79:sM:103:LYS:HB2	79:sM:103:LYS:HE2	1.90	0.42
1:1:86:G:P	85:1:3992:LLL:H321	2.41	0.42
1:1:346:C:C4	1:1:348:A:C8	3.08	0.42
1:1:639:G:OP1	33:O2:40:SER:HB2	2.20	0.42
1:1:668:G:N7	85:1:3999:LLL:H832	2.35	0.42
1:1:958:C:OP1	1:1:2799:A:H3'	2.20	0.42
1:1:1039:U:H2'	1:1:1040:A:C8	2.55	0.42
1:1:1564:U:O2	1:1:1576:G:N1	2.52	0.42
1:1:1759:C:H2'	1:1:1760:A:H5''	2.01	0.42
1:1:2155:G:OP1	4:L2:241:ARG:HG2	2.20	0.42
1:1:3136:G:C6	1:1:3137:C:C4	3.08	0.42
1:1:3349:C:H6	1:1:3349:C:O5'	2.02	0.42
3:4:14:C:C4	3:4:15:G:C6	3.08	0.42
12:M0:89:VAL:HG22	12:M0:136:PHE:CE1	2.54	0.42
14:M3:54:LEU:HD22	14:M3:54:LEU:HA	1.71	0.42
14:M3:92:THR:HB	36:O5:113:GLN:HA	2.02	0.42
16:M5:113:LEU:HD13	16:M5:136:ASP:HA	2.02	0.42
20:M9:81:ARG:HG2	20:M9:88:ARG:NH2	2.34	0.42
22:N1:41:ASP:N	22:N1:97:LYS:O	2.46	0.42
26:N5:91:ASN:OD1	26:N5:94:GLN:NE2	2.51	0.42
33:O2:91:THR:HG22	33:O2:92:TYR:CD2	2.54	0.42
35:O4:71:THR:HG22	35:O4:72:VAL:H	1.84	0.42
40:O9:27:ILE:HG23	40:O9:30:ARG:CZ	2.49	0.42
45:2:279:G:C6	45:2:281:G:C4	3.08	0.42
45:2:310:C:H4'	69:D3:33:LEU:HD22	2.01	0.42
45:2:985:G:C2	45:2:986:G:H1'	2.55	0.42
45:2:1079:U:H2'	45:2:1080:U:O4'	2.20	0.42
45:2:1180:C:O2	61:C5:128:HIS:HE1	2.03	0.42
45:2:1360:A:H8	45:2:1360:A:OP2	2.03	0.42
45:2:1619:C:C2	74:D8:22:ARG:HG2	2.55	0.42
85:2:2045:LLL:H13	85:2:2045:LLL:N12	2.34	0.42
53:S7:64:VAL:HB	53:S7:94:ALA:HB1	2.01	0.42
55:S9:90:LYS:HA	55:S9:90:LYS:HD3	1.80	0.42
55:S9:114:TYR:HA	55:S9:119:ALA:HB3	2.00	0.42
56:C0:16:PHE:CE1	56:C0:88:PRO:N	2.88	0.42
57:C1:124:THR:O	57:C1:140:VAL:HG12	2.20	0.42
59:C3:56:ASP:O	73:D7:46:VAL:HA	2.19	0.42
61:C5:96:ILE:HB	61:C5:120:SER:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:C9:33:TYR:C	65:C9:33:TYR:CD1	2.98	0.42
66:D0:24:ILE:HA	66:D0:116:VAL:HG12	2.02	0.42
71:D5:66:VAL:HA	71:D5:70:LYS:O	2.20	0.42
77:E1:106:TYR:CD2	77:E1:116:LYS:HG2	2.54	0.42
1:5:417:A:H2'	1:5:418:A:C8	2.54	0.42
1:5:692:A:OP1	16:m5:201:ARG:NH2	2.53	0.42
1:5:1335:C:H2'	1:5:1336:U:C6	2.55	0.42
1:5:2662:G:OP1	87:5:4279:HOH:O	2.21	0.42
1:5:3219:G:H4'	1:5:3220:G:H5'	2.02	0.42
1:5:3263:G:H2'	1:5:3264:G:C8	2.54	0.42
2:7:110:G:C6	2:7:111:U:C4	3.08	0.42
3:8:140:G:H2'	3:8:141:C:O4'	2.19	0.42
4:l2:103:PRO:HA	4:l2:163:ARG:HA	2.02	0.42
4:l2:163:ARG:HE	4:l2:163:ARG:HB2	1.67	0.42
7:l5:40:HIS:HB3	7:l5:43:LYS:HD2	2.02	0.42
11:l9:103:ILE:HD11	11:l9:134:ILE:HG22	2.02	0.42
13:m1:54:VAL:HG12	13:m1:56:THR:HG23	2.02	0.42
20:m9:185:LEU:O	20:m9:189:ALA:HB3	2.20	0.42
26:n5:105:VAL:HG13	26:n5:130:TYR:CD2	2.55	0.42
29:n8:4:ARG:HG3	29:n8:5:PHE:CD1	2.55	0.42
31:o0:47:ASN:OD1	31:o0:74:ASN:N	2.53	0.42
36:o5:15:GLU:CD	36:o5:15:GLU:H	2.27	0.42
37:o6:20:MET:HB3	37:o6:20:MET:HE2	1.70	0.42
43:q2:2:VAL:HG23	43:q2:91:PHE:HD1	1.85	0.42
45:6:542:A:H1'	45:6:543:C:OP1	2.19	0.42
45:6:804:A:N7	68:d2:107:SER:HA	2.34	0.42
45:6:1572:G:H2'	45:6:1572:G:N3	2.35	0.42
49:s3:67:ASN:O	49:s3:71:LEU:HB2	2.20	0.42
50:s4:72:VAL:HG11	50:s4:82:TYR:HE2	1.85	0.42
51:s5:59:VAL:C	51:s5:61:TYR:N	2.76	0.42
52:s6:204:ALA:HA	52:s6:207:GLU:HB3	2.02	0.42
56:c0:49:LEU:HD12	56:c0:49:LEU:HA	1.85	0.42
57:c1:16:GLN:OE1	57:c1:34:TRP:N	2.50	0.42
58:c2:60:VAL:O	58:c2:88:LEU:HD12	2.20	0.42
62:c6:60:PHE:HA	62:c6:63:ILE:HD11	2.01	0.42
64:c8:76:PRO:O	64:c8:81:ILE:HB	2.20	0.42
77:e1:107:LYS:H	77:e1:117:LEU:CD1	2.32	0.42
78:sR:105:GLY:O	78:sR:132:LYS:HE3	2.19	0.42
79:sM:31:SER:OG	79:sM:32:SER:N	2.53	0.42
1:1:110:G:C2	1:1:111:C:H1'	2.55	0.41
1:1:642:U:H5'	1:1:1116:G:O6	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1493:G:O2'	40:O9:13:MET:HG2	2.19	0.41
1:1:1838:G:H4'	1:1:1839:A:N3	2.35	0.41
1:1:2213:A:C6	1:1:2214:A:C6	3.08	0.41
1:1:2340:U:OP1	5:L3:236:LYS:HD2	2.20	0.41
1:1:2557:A:C2	10:L8:38:GLN:HA	2.54	0.41
1:1:3039:C:OP1	24:N3:88:ARG:NH2	2.52	0.41
1:1:3199:G:H5''	15:M4:6:ILE:HG21	2.02	0.41
1:1:3259:U:H6	1:1:3259:U:H5'	1.85	0.41
7:L5:92:LEU:HD12	7:L5:92:LEU:H	1.85	0.41
10:L8:78:PHE:CE1	10:L8:164:VAL:HG12	2.54	0.41
10:L8:132:VAL:HG21	10:L8:198:ALA:HB1	2.01	0.41
10:L8:246:MET:HE2	10:L8:246:MET:HB2	1.97	0.41
13:M1:133:ARG:NH1	13:M1:153:LYS:O	2.52	0.41
14:M3:7:LEU:O	29:N8:49:HIS:NE2	2.49	0.41
14:M3:21:ARG:HB3	16:M5:196:THR:HA	2.02	0.41
17:M6:98:ALA:HA	17:M6:101:ARG:NH1	2.35	0.41
18:M7:28:ASN:O	18:M7:32:THR:HG23	2.20	0.41
23:N2:68:THR:HG23	23:N2:69:ALA:N	2.35	0.41
24:N3:120:LYS:H	24:N3:137:VAL:CG2	2.33	0.41
28:N7:60:LYS:O	28:N7:64:LYS:N	2.47	0.41
32:O1:4:LEU:HB3	32:O1:5:LYS:H	1.74	0.41
32:O1:72:ARG:NH1	32:O1:105:GLN:O	2.35	0.41
36:O5:76:GLN:HB2	36:O5:77:PRO:HD3	2.02	0.41
41:Q0:114:LYS:HG2	41:Q0:115:CYS:N	2.33	0.41
45:2:225:A:H2'	45:2:226:A:O4'	2.20	0.41
45:2:379:U:OP2	87:2:2118:HOH:O	2.22	0.41
45:2:522:U:OP1	70:D4:37:LYS:NZ	2.46	0.41
45:2:618:U:H5''	45:2:1030:A:C2	2.55	0.41
46:S0:89:PHE:CD2	46:S0:178:ALA:HB2	2.55	0.41
46:S0:130:ALA:HA	46:S0:133:ILE:HD12	2.02	0.41
49:S3:66:ILE:HD11	49:S3:88:ALA:HB2	2.02	0.41
70:D4:18:LEU:HD23	70:D4:18:LEU:HA	1.80	0.41
72:D6:60:PRO:O	72:D6:61:GLU:HG2	2.20	0.41
1:5:216:G:H4'	27:n6:19:TYR:CZ	2.55	0.41
1:5:242:C:H4'	1:5:243:G:OP1	2.20	0.41
1:5:252:U:H4'	1:5:253:A:H5'	2.01	0.41
1:5:377:A:H1'	1:5:392:G:N2	2.35	0.41
1:5:378:A:H3'	1:5:379:C:C6	2.55	0.41
1:5:727:G:H2'	1:5:728:G:O4'	2.20	0.41
1:5:915:A:C5	1:5:917:A:H1'	2.55	0.41
1:5:930:U:H2'	1:5:931:C:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:980:A:C8	1:5:980:A:H3'	2.54	0.41
1:5:980:A:H3'	1:5:980:A:H8	1.84	0.41
1:5:1746:U:C2	1:5:1747:G:C8	3.08	0.41
1:5:1769:G:H5'	1:5:1770:G:P	2.60	0.41
1:5:1891:A:C2'	1:5:1892:G:H5'	2.50	0.41
1:5:1938:U:O2	1:5:2115:G:H5'	2.20	0.41
1:5:2315:G:C2	1:5:2316:G:N7	2.87	0.41
1:5:2351:U:H2'	1:5:2352:A:C8	2.54	0.41
1:5:2675:C:N4	13:m1:22:SER:HB3	2.35	0.41
1:5:3182:G:H2'	1:5:3183:A:O4'	2.19	0.41
3:8:80:A:H1'	3:8:82:U:H3	1.84	0.41
5:l3:49:TYR:O	5:l3:80:ASP:N	2.51	0.41
5:l3:221:THR:O	5:l3:272:TYR:HA	2.20	0.41
6:l4:144:LYS:HD2	6:l4:144:LYS:C	2.45	0.41
6:l4:148:ILE:HA	6:l4:149:PRO:C	2.45	0.41
6:l4:327:LEU:O	6:l4:328:ASN:C	2.60	0.41
6:l4:329:PRO:HB2	9:l7:45:LEU:HD23	2.01	0.41
10:l8:64:ILE:O	10:l8:68:ARG:HG2	2.20	0.41
10:l8:178:ALA:HB2	10:l8:218:ILE:HG23	2.02	0.41
10:l8:246:MET:O	10:l8:246:MET:HG2	2.19	0.41
11:l9:175:PHE:N	11:l9:175:PHE:CD2	2.88	0.41
13:m1:47:GLN:OE1	13:m1:64:LYS:HD3	2.19	0.41
14:m3:144:THR:O	14:m3:146:PRO:HD3	2.20	0.41
18:m7:56:ARG:NH1	18:m7:75:GLU:OE1	2.28	0.41
23:n2:74:LYS:HD2	23:n2:74:LYS:HA	1.88	0.41
31:o0:51:LEU:HD12	31:o0:51:LEU:HA	1.82	0.41
34:o3:8:TYR:CE1	34:o3:99:ARG:HD3	2.55	0.41
35:o4:44:CYS:HA	35:o4:79:SER:O	2.20	0.41
82:p0:37:GLN:HG3	82:p0:104:ARG:HD2	2.02	0.41
45:6:32:U:C2	45:6:595:G:N1	2.88	0.41
45:6:525:A:H2'	45:6:526:A:C8	2.54	0.41
45:6:970:A:H2'	45:6:971:A:C5'	2.50	0.41
45:6:1569:A:C2	45:6:1570:A:C4	3.08	0.41
46:s0:49:ASN:OD1	46:s0:52:LYS:HG2	2.19	0.41
47:s1:26:ARG:O	47:s1:50:LYS:N	2.53	0.41
49:s3:4:LEU:HD23	49:s3:4:LEU:HA	1.89	0.41
49:s3:179:GLN:CD	49:s3:179:GLN:C	2.88	0.41
50:s4:104:ASP:O	50:s4:190:GLY:HA3	2.20	0.41
51:s5:64:VAL:HG22	51:s5:89:ILE:HD11	2.02	0.41
61:c5:28:MET:HE2	61:c5:28:MET:HB2	1.91	0.41
66:d0:58:LEU:HD23	66:d0:58:LEU:HA	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:d0:96:PRO:HD2	66:d0:99:ILE:HD11	2.01	0.41
70:d4:104:SER:O	70:d4:107:GLN:N	2.52	0.41
1:1:404:G:H2'	1:1:405:U:O4'	2.20	0.41
1:1:805:G:H1'	6:L4:73:ARG:NH1	2.36	0.41
1:1:1523:U:C5	26:N5:123:TYR:HE2	2.38	0.41
1:1:2094:C:H2'	1:1:2095:G:H8	1.84	0.41
1:1:2442:G:N1	1:1:2443:A:N7	2.68	0.41
1:1:2550:U:C5	4:L2:40:TYR:CE2	3.08	0.41
1:1:2984:C:C2	1:1:2985:C:C5	3.07	0.41
5:L3:235:THR:HG23	5:L3:236:LYS:O	2.20	0.41
6:L4:26:PHE:HE2	6:L4:258:LEU:HD23	1.85	0.41
6:L4:35:VAL:HG13	6:L4:235:LEU:HD11	2.02	0.41
6:L4:154:THR:CG2	6:L4:253:ALA:HB2	2.48	0.41
6:L4:334:PHE:HA	6:L4:339:LEU:CD1	2.50	0.41
8:L6:41:ILE:HB	8:L6:85:ILE:HB	2.01	0.41
9:L7:95:ILE:HD12	9:L7:133:TYR:CE1	2.55	0.41
10:L8:74:THR:HG21	37:O6:47:ILE:O	2.20	0.41
11:L9:180:TYR:CD2	11:L9:180:TYR:N	2.88	0.41
16:M5:18:VAL:HG13	16:M5:19:LEU:H	1.85	0.41
22:N1:17:ARG:HG2	22:N1:22:HIS:HA	2.02	0.41
36:O5:54:VAL:O	36:O5:58:ILE:HG13	2.20	0.41
37:O6:45:ARG:NH2	37:O6:49:GLY:O	2.47	0.41
41:Q0:89:TYR:N	41:Q0:89:TYR:CD2	2.88	0.41
41:Q0:103:LEU:HD23	41:Q0:103:LEU:HA	1.77	0.41
45:2:72:A:N7	45:2:73:U:C2	2.88	0.41
45:2:73:U:C1'	45:2:74:U:H5'	2.48	0.41
45:2:260:U:O4	54:S8:43:ILE:N	2.40	0.41
45:2:479:C:O2	45:2:510:G:N2	2.53	0.41
45:2:538:A:N7	45:2:543:C:N4	2.68	0.41
45:2:680:U:H2'	45:2:681:U:C6	2.55	0.41
45:2:704:C:H3'	45:2:704:C:OP2	2.20	0.41
45:2:1388:A:C6	45:2:1411:A:C6	3.07	0.41
48:S2:143:TYR:O	68:D2:98:GLN:NE2	2.53	0.41
51:S5:43:PHE:HB2	51:S5:46:TRP:HB2	2.01	0.41
51:S5:99:MET:O	51:S5:100:ASN:HB2	2.20	0.41
51:S5:174:LEU:HD23	51:S5:174:LEU:HA	1.92	0.41
58:C2:97:LEU:HD12	58:C2:118:ALA:HB1	2.02	0.41
59:C3:129:TYR:CD1	59:C3:134:VAL:HG11	2.55	0.41
60:C4:87:GLY:O	60:C4:90:ARG:HB2	2.20	0.41
65:C9:136:ALA:O	65:C9:140:LEU:HD12	2.20	0.41
70:D4:60:PHE:CD1	70:D4:71:GLY:HA3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:304:G:C6	29:n8:62:HIS:CE1	3.08	0.41
1:5:311:C:H2'	1:5:312:C:C6	2.53	0.41
1:5:532:A:O2'	1:5:533:A:H5'	2.19	0.41
1:5:997:A:OP2	87:5:4281:HOH:O	2.22	0.41
1:5:1614:C:H2'	1:5:1615:C:H6	1.84	0.41
1:5:1730:G:C5	31:o0:28:LYS:HB2	2.56	0.41
1:5:2206:G:H2'	1:5:2207:A:H5'	2.02	0.41
1:5:2352:A:H5''	18:m7:83:TRP:O	2.19	0.41
1:5:2596:U:C4	1:5:2597:U:C4	3.07	0.41
1:5:2630:C:H3'	22:n1:4:SER:OG	2.20	0.41
1:5:2908:G:H2'	1:5:2909:U:C6	2.54	0.41
1:5:2924:U:C5	1:5:2925:C:C2	3.08	0.41
1:5:2943:G:C8	5:l3:2:SER:N	2.89	0.41
1:5:3181:C:H2'	1:5:3182:G:C8	2.55	0.41
1:5:3330:A:H4'	5:l3:366:GLY:HA3	2.02	0.41
85:5:4176:LLL:H322	85:5:4176:LLL:H11	1.85	0.41
2:7:56:A:O2'	13:m1:148:VAL:HA	2.20	0.41
3:8:137:C:OP1	85:8:222:LLL:H13	2.20	0.41
4:l2:229:ALA:O	4:l2:234:LYS:HE2	2.20	0.41
5:l3:347:SER:HB2	5:l3:350:ALA:N	2.31	0.41
6:l4:84:ARG:HA	6:l4:87:GLN:OE1	2.20	0.41
8:l6:83:TYR:N	8:l6:83:TYR:CD2	2.88	0.41
10:l8:176:PRO:HB3	10:l8:219:ASP:OD1	2.21	0.41
13:m1:16:LYS:HG3	13:m1:130:VAL:CG1	2.49	0.41
13:m1:145:LYS:HE2	13:m1:145:LYS:HB2	1.81	0.41
14:m3:85:LEU:HD23	14:m3:90:ALA:HB2	2.02	0.41
18:m7:22:LEU:HD13	18:m7:90:PHE:CD2	2.55	0.41
19:m8:64:VAL:HG22	19:m8:96:PHE:HE2	1.85	0.41
21:n0:23:LYS:NZ	22:n1:146:ASN:HB2	2.36	0.41
29:n8:32:ARG:HH11	29:n8:32:ARG:HD3	1.72	0.41
32:o1:16:LEU:HA	32:o1:16:LEU:HD12	1.80	0.41
32:o1:27:LYS:O	32:o1:31:ARG:HB2	2.20	0.41
33:o2:75:LEU:HD23	33:o2:75:LEU:HA	1.67	0.41
33:o2:103:LYS:O	33:o2:106:VAL:HG22	2.21	0.41
82:p0:48:ARG:HG2	82:p0:91:GLU:HB2	2.01	0.41
45:6:277:U:O2'	45:6:278:U:P	2.78	0.41
45:6:350:U:OP1	45:6:351:C:O2'	2.27	0.41
45:6:834:G:H3'	45:6:835:U:H5	1.86	0.41
45:6:991:G:O5'	45:6:991:G:H8	2.04	0.41
45:6:1244:A:N3	45:6:1244:A:H3'	2.36	0.41
45:6:1638:G:C2	45:6:1639:C:H1'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s4:126:VAL:HG12	50:s4:158:ASP:O	2.19	0.41
53:s7:25:VAL:HA	53:s7:28:GLU:HG3	2.01	0.41
54:s8:116:HIS:HB3	54:s8:117:TYR:HD2	1.83	0.41
57:c1:55:ASP:HB2	57:c1:82:ARG:NH2	2.35	0.41
62:c6:42:GLU:OE1	62:c6:42:GLU:HA	2.19	0.41
65:c9:34:VAL:HG13	65:c9:53:TRP:NE1	2.34	0.41
66:d0:35:GLU:OE1	66:d0:35:GLU:HA	2.20	0.41
71:d5:43:ASP:C	71:d5:45:GLU:N	2.79	0.41
77:e1:144:CYS:HB2	77:e1:147:VAL:O	2.19	0.41
78:sR:192:PHE:HB3	78:sR:223:TRP:CZ3	2.55	0.41
78:sR:283:LYS:HE2	78:sR:283:LYS:HB2	1.86	0.41
1:1:36:C:O2'	1:1:934:G:H1'	2.20	0.41
1:1:188:U:H1'	1:1:208:C:C1'	2.50	0.41
1:1:209:A:H4'	1:1:211:A:H8	1.79	0.41
1:1:591:G:H22	1:1:612:U:P	2.43	0.41
1:1:957:C:H1'	29:N8:43:ILE:HD11	2.01	0.41
1:1:1116:G:OP2	1:1:1116:G:H4'	2.21	0.41
1:1:2997:G:O4'	1:1:3396:U:H5'	2.19	0.41
2:3:86:U:H3'	9:L7:218:ARG:NH2	2.35	0.41
4:L2:54:ARG:HD3	4:L2:56:ALA:HB3	2.01	0.41
6:L4:20:LEU:HA	6:L4:21:PRO:HD3	1.94	0.41
6:L4:50:TYR:CD2	6:L4:109:TRP:HH2	2.39	0.41
7:L5:102:GLY:O	7:L5:105:ILE:HG22	2.21	0.41
9:L7:123:THR:HA	9:L7:126:LEU:HD12	2.03	0.41
9:L7:140:SER:O	9:L7:144:ILE:HG13	2.20	0.41
10:L8:53:PRO:HB2	10:L8:55:TYR:CD2	2.55	0.41
11:L9:92:TYR:N	11:L9:92:TYR:HD1	2.19	0.41
12:M0:54:SER:HB2	12:M0:135:ILE:HD11	2.01	0.41
12:M0:65:LEU:HA	12:M0:65:LEU:HD23	1.77	0.41
19:M8:60:PRO:HA	19:M8:61:PRO:HD3	1.89	0.41
20:M9:99:LEU:O	20:M9:103:ARG:HB2	2.20	0.41
24:N3:80:ARG:HH12	24:N3:116:GLY:HA3	1.85	0.41
26:N5:50:ALA:HB2	36:O5:77:PRO:HG2	2.02	0.41
36:O5:13:SER:OG	36:O5:16:GLN:HG3	2.20	0.41
37:O6:89:GLU:O	37:O6:93:ILE:HG13	2.20	0.41
45:2:589:C:H2'	45:2:590:C:H6	1.84	0.41
45:2:765:G:C4	55:S9:149:ARG:NH1	2.88	0.41
45:2:855:A:C2	45:2:857:U:H1'	2.55	0.41
45:2:876:G:H2'	45:2:936:G:N2	2.35	0.41
45:2:1201:G:N2	45:2:1599:C:H2'	2.35	0.41
45:2:1338:C:O4'	45:2:1410:A:H1'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:S2:144:TRP:CZ2	48:S2:173:PRO:HG3	2.56	0.41
50:S4:90:ILE:HD11	50:S4:101:LEU:HD11	2.02	0.41
50:S4:180:LEU:HD22	50:S4:228:ILE:HD11	2.03	0.41
50:S4:195:ILE:O	50:S4:195:ILE:HG22	2.19	0.41
50:S4:209:HIS:HA	50:S4:219:VAL:HG12	2.02	0.41
50:S4:240:LYS:H	50:S4:240:LYS:CD	2.32	0.41
51:S5:84:LYS:HE2	51:S5:169:ASN:OD1	2.20	0.41
60:C4:101:ALA:O	60:C4:105:LEU:HG	2.20	0.41
63:C7:77:GLU:O	63:C7:81:LYS:HB2	2.20	0.41
63:C7:99:VAL:CG1	63:C7:100:LEU:N	2.83	0.41
70:D4:99:LYS:C	70:D4:99:LYS:HD3	2.45	0.41
73:D7:19:HIS:CE1	73:D7:21:LEU:HG	2.56	0.41
78:SR:123:ILE:HG22	78:SR:133:VAL:HG22	2.02	0.41
78:SR:141:LEU:HD12	78:SR:142:ALA:N	2.35	0.41
1:5:268:A:C4	16:m5:12:ARG:HG2	2.55	0.41
1:5:578:A:C6	6:l4:334:PHE:CE1	3.08	0.41
1:5:1349:G:H22	19:m8:39:ARG:HH22	1.69	0.41
1:5:1355:A:H1'	1:5:1356:U:OP2	2.20	0.41
1:5:1368:U:O2'	1:5:1369:A:H5'	2.21	0.41
1:5:1579:C:O2	1:5:1579:C:H2'	2.20	0.41
1:5:1599:G:H1	1:5:1608:C:N4	2.18	0.41
1:5:1742:U:H2'	1:5:1743:G:C8	2.56	0.41
1:5:1825:G:O2'	1:5:1826:C:H5'	2.20	0.41
1:5:1874:A:H5''	20:m9:18:GLY:HA3	2.02	0.41
1:5:2117:A:H2'	1:5:2118:C:O4'	2.21	0.41
1:5:2158:A:OP2	4:l2:156:LYS:NZ	2.43	0.41
1:5:2252:A:H61	1:5:2264:U:H3	1.69	0.41
1:5:2312:A:OP1	1:5:2314:U:H5	2.02	0.41
1:5:2839:G:C6	1:5:2850:G:C2	3.09	0.41
3:8:85:G:H3'	3:8:85:G:C8	2.56	0.41
6:l4:3:ARG:HA	6:l4:3:ARG:HD2	1.85	0.41
6:l4:190:GLY:O	6:l4:193:LYS:HE3	2.20	0.41
6:l4:276:LEU:HA	6:l4:277:PRO:HD3	1.92	0.41
7:l5:17:GLN:NE2	22:n1:22:HIS:H	1.96	0.41
11:l9:114:VAL:HB	11:l9:124:ARG:HB2	2.03	0.41
14:m3:144:THR:HG21	36:o5:118:ILE:HG21	2.01	0.41
19:m8:25:TYR:HA	19:m8:28:LEU:HD12	2.02	0.41
20:m9:176:ARG:NH1	45:6:852:C:H5''	2.35	0.41
21:n0:36:ILE:O	21:n0:40:ARG:HG2	2.20	0.41
24:n3:48:ARG:HG3	24:n3:48:ARG:NH1	2.31	0.41
32:o1:25:PHE:HD2	32:o1:28:ARG:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:o2:3:SER:HB3	33:o2:71:HIS:NE2	2.35	0.41
37:o6:43:LEU:O	37:o6:47:ILE:HG13	2.20	0.41
45:6:237:C:HO2'	45:6:238:U:P	2.44	0.41
45:6:475:A:H2'	45:6:476:U:O4'	2.20	0.41
45:6:829:A:HO2'	45:6:830:U:P	2.43	0.41
45:6:926:A:H1'	45:6:988:A:C2	2.55	0.41
45:6:1178:G:H2'	45:6:1179:G:O4'	2.20	0.41
45:6:1183:A:C2	61:c5:100:LYS:HB3	2.55	0.41
45:6:1550:A:C6	45:6:1551:U:C4	3.08	0.41
46:s0:88:LYS:NZ	63:c7:82:ASP:OD1	2.52	0.41
47:s1:185:THR:O	47:s1:189:ILE:HG13	2.19	0.41
50:s4:117:GLU:O	50:s4:118:GLU:HB3	2.20	0.41
51:s5:113:ILE:O	51:s5:117:THR:OG1	2.36	0.41
51:s5:140:THR:HA	51:s5:214:LYS:HD2	2.02	0.41
54:s8:8:ARG:NH2	54:s8:22:ARG:HE	2.19	0.41
56:c0:32:HIS:CD2	56:c0:33:GLU:HG2	2.54	0.41
57:c1:132:SER:O	57:c1:133:LYS:C	2.63	0.41
58:c2:115:VAL:HG23	58:c2:115:VAL:O	2.20	0.41
67:d1:24:ILE:HD12	67:d1:31:SER:HB2	2.00	0.41
69:d3:86:PHE:CE1	69:d3:88:PRO:HB3	2.56	0.41
71:d5:49:ARG:O	71:d5:53:GLU:HB2	2.20	0.41
78:sR:220:ILE:HD11	78:sR:236:ALA:HB2	2.02	0.41
78:sR:295:SER:HB3	78:sR:300:THR:HB	2.01	0.41
1:1:95:A:C5	1:1:96:G:H1'	2.55	0.41
1:1:424:G:H21	33:O2:24:ARG:HE	1.68	0.41
1:1:589:A:H1'	1:1:1337:A:H5''	2.02	0.41
1:1:597:G:H2'	1:1:598:A:H8	1.85	0.41
1:1:910:G:C5	1:1:911:C:C4	3.08	0.41
1:1:1049:C:H2'	1:1:1050:U:C6	2.55	0.41
1:1:1135:A:C2	1:1:1136:A:C8	3.08	0.41
1:1:1666:G:H2'	1:1:1667:A:H8	1.84	0.41
1:1:2255:A:H5'	1:1:2261:G:H22	1.85	0.41
1:1:2355:G:H5'	18:M7:139:TYR:CE1	2.55	0.41
1:1:2911:A:H4'	1:1:2912:G:C8	2.55	0.41
1:1:2941:A:O5'	1:1:2943:G:H4'	2.19	0.41
1:1:3350:C:O2'	1:1:3351:U:P	2.79	0.41
3:4:21:C:N4	3:4:22:U:O4	2.54	0.41
4:L2:117:GLU:HG2	4:L2:124:GLY:N	2.35	0.41
4:L2:173:GLY:O	44:Q3:69:TYR:HE2	2.04	0.41
7:L5:34:LYS:HE3	7:L5:34:LYS:HB2	1.70	0.41
7:L5:244:HIS:HA	7:L5:247:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L8:93:LEU:HD11	10:L8:207:ASP:HB3	2.02	0.41
12:M0:46:PHE:CD2	12:M0:139:ARG:HG3	2.56	0.41
13:M1:112:LEU:H	13:M1:112:LEU:HD13	1.85	0.41
14:M3:28:GLN:HB3	16:M5:201:ARG:HD3	2.02	0.41
17:M6:14:HIS:CD2	17:M6:124:LEU:HD13	2.55	0.41
20:M9:8:LYS:HD3	20:M9:22:VAL:CG2	2.51	0.41
20:M9:96:ILE:O	20:M9:100:ARG:HG3	2.20	0.41
22:N1:17:ARG:CZ	22:N1:45:ASN:HD21	2.33	0.41
29:N8:47:LYS:O	29:N8:48:TYR:C	2.63	0.41
35:O4:90:ILE:H	35:O4:90:ILE:HG12	1.59	0.41
39:O8:77:ARG:HB2	39:O8:77:ARG:NH1	2.36	0.41
45:2:291:G:H2'	45:2:292:U:C6	2.55	0.41
45:2:539:G:H8	45:2:539:G:P	2.43	0.41
45:2:633:U:P	69:D3:10:ASN:HB2	2.60	0.41
45:2:655:G:N2	45:2:656:G:O6	2.52	0.41
45:2:861:U:O2'	68:D2:56:HIS:O	2.35	0.41
45:2:1176:G:C2	45:2:1464:G:C4	3.08	0.41
45:2:1424:A:H4'	48:S2:93:GLY:HA2	2.01	0.41
45:2:1584:G:H5''	62:C6:122:ARG:HB3	2.01	0.41
45:2:1754:A:H1'	76:E0:2:ALA:HA	2.02	0.41
46:S0:14:ALA:O	46:S0:18:LEU:HG	2.21	0.41
47:S1:132:ASP:HB2	47:S1:221:PRO:HB3	2.02	0.41
47:S1:154:SER:O	47:S1:154:SER:OG	2.38	0.41
48:S2:112:GLY:HA3	48:S2:132:ALA:O	2.21	0.41
48:S2:207:LEU:HA	48:S2:207:LEU:HD23	1.71	0.41
50:S4:85:GLY:N	50:S4:88:ASP:OD2	2.52	0.41
50:S4:206:ASP:HB2	50:S4:222:LEU:HB2	2.03	0.41
51:S5:91:GLU:O	51:S5:95:ASN:HB2	2.20	0.41
54:S8:12:SER:HB3	54:S8:16:ALA:H	1.83	0.41
54:S8:64:ASN:HA	54:S8:75:LYS:HA	2.03	0.41
56:C0:36:ASP:O	56:C0:37:THR:HG23	2.20	0.41
57:C1:97:TYR:HD1	69:D3:15:LEU:HD23	1.85	0.41
58:C2:54:ARG:HD2	58:C2:56:GLU:OE1	2.20	0.41
58:C2:58:LEU:HD11	58:C2:125:ASN:HA	2.02	0.41
61:C5:111:MET:HE2	64:C8:119:ILE:O	2.19	0.41
69:D3:41:SER:HA	69:D3:42:PRO:HD3	1.89	0.41
70:D4:63:GLN:HG3	70:D4:64:PHE:N	2.35	0.41
73:D7:64:CYS:HB2	73:D7:71:ALA:HB1	2.01	0.41
1:5:373:A:N1	1:5:394:G:H4'	2.35	0.41
1:5:575:G:H2'	1:5:576:C:C6	2.56	0.41
1:5:693:A:C5	1:5:694:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:728:G:H5''	19:m8:43:PRO:HB2	2.02	0.41
1:5:784:A:H2'	19:m8:69:ARG:HH21	1.84	0.41
1:5:1008:U:H2'	1:5:1009:A:O4'	2.19	0.41
1:5:1339:C:H2'	1:5:1340:G:O4'	2.21	0.41
1:5:1462:A:C5	1:5:1463:U:C5	3.08	0.41
1:5:1478:C:H2'	1:5:1479:U:C6	2.55	0.41
1:5:2279:A:OP1	87:5:4280:HOH:O	2.22	0.41
1:5:2356:A:H5'	18:m7:138:LYS:NZ	2.36	0.41
1:5:2532:U:H2'	1:5:2533:G:C8	2.55	0.41
1:5:2743:A:H2'	1:5:2744:U:C6	2.56	0.41
85:5:4160:LLL:H832	85:5:4160:LLL:H933	2.02	0.41
3:8:146:U:H2'	3:8:147:U:H6	1.83	0.41
5:l3:116:ARG:HA	5:l3:122:TRP:CE3	2.55	0.41
5:l3:214:MET:HE3	5:l3:214:MET:HB3	1.86	0.41
6:l4:329:PRO:C	6:l4:331:ALA:N	2.78	0.41
80:m2:30:UNK:O	80:m2:31:UNK:C	2.68	0.41
14:m3:52:ASP:OD2	14:m3:141:ALA:HB3	2.21	0.41
14:m3:107:GLU:H	14:m3:107:GLU:CD	2.29	0.41
18:m7:113:TYR:HE1	18:m7:115:SER:HA	1.82	0.41
27:n6:87:LYS:HB2	27:n6:97:ILE:HD11	2.01	0.41
45:6:363:G:H2'	45:6:364:G:H5'	2.00	0.41
45:6:633:U:P	69:d3:10:ASN:HB2	2.60	0.41
45:6:955:A:H4'	45:6:1073:G:O2'	2.20	0.41
46:s0:34:GLU:N	46:s0:35:PRO:HD2	2.35	0.41
47:s1:30:PHE:CE1	47:s1:94:LYS:HA	2.55	0.41
47:s1:153:HIS:HB2	47:s1:155:TYR:H	1.84	0.41
50:s4:175:PHE:O	50:s4:176:ASP:HB3	2.21	0.41
50:s4:247:SER:O	50:s4:251:GLU:HG3	2.20	0.41
51:s5:43:PHE:O	51:s5:69:PHE:O	2.37	0.41
54:s8:190:ALA:HB1	54:s8:194:ARG:NH2	2.36	0.41
55:s9:31:ALA:O	55:s9:36:LEU:N	2.50	0.41
55:s9:77:ILE:HD11	55:s9:93:LEU:HD22	2.02	0.41
55:s9:110:GLN:NE2	55:s9:126:ARG:HG2	2.35	0.41
60:c4:59:ALA:O	60:c4:63:ALA:N	2.50	0.41
73:d7:37:CYS:O	73:d7:40:CYS:N	2.53	0.41
73:d7:61:THR:O	73:d7:62:ILE:HG22	2.20	0.41
73:d7:63:LEU:O	73:d7:74:SER:N	2.48	0.41
1:1:213:A:H2'	1:1:214:G:O4'	2.21	0.41
1:1:317:A:C2	1:1:318:A:C4	3.09	0.41
1:1:591:G:C1'	8:L6:19:LYS:HG3	2.51	0.41
1:1:730:C:H2'	1:1:731:U:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1383:G:O3'	6:L4:138:ARG:NH2	2.54	0.41
1:1:1507:G:H2'	1:1:1507:G:N3	2.36	0.41
1:1:1544:G:OP1	16:M5:127:TYR:OH	2.35	0.41
1:1:1569:U:H5''	1:1:1570:U:C6	2.52	0.41
1:1:1638:A:H2	1:1:1736:G:N3	2.19	0.41
1:1:1753:G:C4	1:1:1754:G:C8	3.08	0.41
4:L2:220:GLY:O	4:L2:221:LYS:HG3	2.20	0.41
5:L3:152:LYS:HG2	5:L3:192:VAL:HG11	2.01	0.41
6:L4:188:ARG:HH21	6:L4:197:ARG:HB3	1.86	0.41
7:L5:39:GLN:OE1	7:L5:40:HIS:N	2.47	0.41
7:L5:211:LEU:HA	7:L5:211:LEU:HD23	1.73	0.41
8:L6:83:TYR:CD2	8:L6:83:TYR:N	2.88	0.41
10:L8:97:TYR:O	10:L8:131:ALA:HA	2.20	0.41
10:L8:200:LEU:HD23	10:L8:200:LEU:HA	1.93	0.41
11:L9:90:MET:HG3	11:L9:144:ILE:CG2	2.49	0.41
12:M0:102:MET:HE2	12:M0:102:MET:HB3	1.81	0.41
16:M5:18:VAL:O	16:M5:21:PHE:N	2.53	0.41
17:M6:58:LEU:HD12	17:M6:58:LEU:HA	1.77	0.41
21:N0:142:GLN:HE21	21:N0:142:GLN:HB3	1.62	0.41
22:N1:60:LYS:HB3	22:N1:76:ILE:HD13	2.01	0.41
23:N2:94:ARG:HG2	23:N2:96:VAL:CG2	2.51	0.41
27:N6:35:LEU:HD23	27:N6:106:ILE:HB	2.01	0.41
27:N6:56:VAL:HG11	27:N6:104:LEU:HD13	2.03	0.41
28:N7:10:VAL:HG23	28:N7:86:THR:HA	2.02	0.41
28:N7:101:PHE:O	28:N7:102:GLU:HB3	2.21	0.41
32:O1:19:ARG:HD3	32:O1:35:GLU:HG3	2.03	0.41
33:O2:126:LEU:HD22	33:O2:126:LEU:HA	1.79	0.41
43:Q2:9:LYS:HE3	43:Q2:9:LYS:HB2	1.95	0.41
43:Q2:14:GLY:C	43:Q2:16:THR:H	2.28	0.41
45:2:541:A:O2'	45:2:542:A:O5'	2.39	0.41
45:2:1067:C:H5''	47:S1:150:VAL:HG12	2.02	0.41
45:2:1147:A:H2'	45:2:1148:C:H6	1.86	0.41
45:2:1552:U:O2'	45:2:1598:U:O4'	2.35	0.41
45:2:1793:G:C6	72:D6:75:VAL:HG11	2.55	0.41
46:S0:52:LYS:HE3	67:D1:82:VAL:HG13	2.02	0.41
47:S1:26:ARG:HD2	47:S1:49:ASN:HB3	2.02	0.41
47:S1:61:LEU:C	47:S1:63:GLY:N	2.79	0.41
47:S1:172:LEU:HD23	47:S1:172:LEU:HA	1.88	0.41
48:S2:109:GLY:HA2	48:S2:139:ILE:HB	2.03	0.41
50:S4:123:LEU:HA	50:S4:160:VAL:O	2.21	0.41
53:S7:63:PRO:HG2	53:S7:66:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:S9:134:ILE:HB	55:S9:135:ALA:H	1.69	0.41
64:C8:146:ALA:HB2	79:SM:68:ARG:HH22	1.86	0.41
78:SR:32:LEU:HD12	78:SR:45:TRP:O	2.20	0.41
1:5:499:G:H2'	1:5:500:C:H6	1.83	0.41
1:5:621:A:H2'	1:5:622:A:H8	1.85	0.41
1:5:1556:C:H5''	1:5:2169:G:H22	1.85	0.41
1:5:2154:U:H4'	4:l2:240:ALA:HB1	2.02	0.41
1:5:2328:U:H2'	1:5:2329:C:O4'	2.21	0.41
1:5:2768:U:H2'	1:5:2769:A:H8	1.84	0.41
1:5:3337:G:H2'	1:5:3338:C:O4'	2.20	0.41
85:5:4174:LLL:H211	85:5:4174:LLL:C52	2.33	0.41
7:l5:122:VAL:CG1	7:l5:123:GLU:N	2.84	0.41
8:l6:78:ARG:NH1	8:l6:106:PHE:HB2	2.35	0.41
10:l8:162:LEU:HD21	16:m5:45:PRO:HG2	2.01	0.41
12:m0:156:ARG:HG2	12:m0:163:GLN:HG2	2.03	0.41
14:m3:177:LYS:HA	37:o6:11:LEU:HD13	2.01	0.41
15:m4:60:LEU:HD13	21:n0:152:LEU:HD11	2.03	0.41
17:m6:157:GLU:O	17:m6:161:LYS:HG3	2.20	0.41
19:m8:83:VAL:O	19:m8:103:ALA:HA	2.20	0.41
20:m9:106:LEU:HB3	20:m9:120:TYR:CE1	2.55	0.41
21:n0:30:PHE:CE2	21:n0:103:VAL:HG21	2.55	0.41
24:n3:23:MET:HE1	24:n3:78:VAL:HG22	2.02	0.41
28:n7:82:PRO:HB2	31:o0:62:LEU:HD12	2.01	0.41
32:o1:55:LEU:HD23	32:o1:55:LEU:HA	1.77	0.41
37:o6:54:GLU:O	37:o6:58:ILE:HG23	2.20	0.41
44:q3:83:ILE:HG22	44:q3:87:ARG:HH12	1.86	0.41
45:6:91:G:H2'	45:6:92:A:O4'	2.20	0.41
45:6:479:C:H2'	45:6:480:G:H8	1.85	0.41
45:6:922:G:O2'	45:6:923:A:H5'	2.21	0.41
45:6:1288:G:C6	45:6:1328:G:C2	3.08	0.41
45:6:1755:A:OP1	69:d3:63:GLN:HG2	2.19	0.41
47:s1:33:LYS:HZ1	47:s1:234:GLU:HA	1.85	0.41
49:s3:191:ASP:HB3	49:s3:194:LYS:HD2	2.03	0.41
50:s4:102:VAL:HG11	50:s4:112:HIS:HD2	1.86	0.41
51:s5:89:ILE:HD12	51:s5:90:ILE:H	1.86	0.41
51:s5:109:LYS:HE3	51:s5:109:LYS:HB2	1.74	0.41
53:s7:94:ALA:O	53:s7:96:ARG:HG3	2.20	0.41
54:s8:196:LEU:HA	54:s8:196:LEU:HD23	1.84	0.41
58:c2:40:GLY:HA3	58:c2:125:ASN:H	1.84	0.41
67:d1:39:VAL:HG12	67:d1:45:ALA:HA	2.03	0.41
68:d2:75:ILE:HG21	68:d2:89:TRP:CH2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:d5:90:LYS:HG3	71:d5:91:PRO:HD2	2.01	0.41
72:d6:10:ARG:CB	72:d6:34:LYS:HA	2.51	0.41
76:e0:20:LYS:HA	76:e0:20:LYS:HD2	1.59	0.41
79:sM:47:ALA:O	79:sM:48:ARG:HG3	2.21	0.41
1:1:112:U:O2'	1:1:113:C:H5''	2.20	0.41
1:1:524:U:OP1	15:M4:77:ARG:NH2	2.51	0.41
1:1:665:A:OP1	16:M5:203:ARG:HD2	2.20	0.41
1:1:1230:G:H1	1:1:1279:C:H42	1.69	0.41
1:1:1741:A:H3'	1:1:1742:U:H6	1.85	0.41
1:1:2221:G:N2	1:1:2223:A:H3'	2.36	0.41
1:1:2550:U:C5	4:L2:40:TYR:CZ	3.08	0.41
1:1:3151:U:H4'	1:1:3294:A:C1'	2.51	0.41
1:1:3329:U:H5''	5:L3:308:MET:HE3	2.02	0.41
5:L3:188:ILE:O	5:L3:192:VAL:HG12	2.21	0.41
6:L4:50:TYR:CE2	6:L4:109:TRP:HH2	2.37	0.41
6:L4:233:LEU:HD23	6:L4:233:LEU:HA	1.79	0.41
8:L6:152:THR:O	8:L6:152:THR:OG1	2.37	0.41
10:L8:187:GLY:HA2	10:L8:190:VAL:HG12	2.02	0.41
11:L9:4:ILE:HD11	21:N0:148:LEU:HD11	2.02	0.41
13:M1:26:SER:HB3	13:M1:63:GLU:O	2.20	0.41
13:M1:54:VAL:O	13:M1:56:THR:N	2.48	0.41
14:M3:47:ALA:O	14:M3:137:GLN:NE2	2.53	0.41
14:M3:93:ILE:O	14:M3:93:ILE:HG22	2.19	0.41
15:M4:23:ILE:HG12	15:M4:31:LYS:O	2.20	0.41
19:M8:135:GLN:CD	19:M8:135:GLN:H	2.29	0.41
23:N2:20:SER:OG	23:N2:21:SER:N	2.53	0.41
23:N2:32:SER:O	23:N2:35:LYS:HB3	2.21	0.41
32:O1:53:PRO:O	32:O1:57:GLN:HG3	2.21	0.41
35:O4:71:THR:HG22	35:O4:77:GLY:HA3	2.03	0.41
44:Q3:62:LYS:HD3	44:Q3:62:LYS:HA	1.87	0.41
45:2:101:U:H2'	45:2:102:U:O4'	2.21	0.41
45:2:145:A:O2'	45:2:146:U:P	2.79	0.41
45:2:198:A:N3	45:2:198:A:H2'	2.36	0.41
45:2:1119:G:C6	45:2:1120:U:C4	3.08	0.41
45:2:1198:G:C2	45:2:1200:G:C6	3.09	0.41
45:2:1228:G:H5'	45:2:1229:G:C8	2.55	0.41
45:2:1281:G:O3'	66:D0:76:SER:OG	2.38	0.41
45:2:1380:U:O2'	45:2:1516:A:N1	2.53	0.41
46:S0:10:THR:HB	46:S0:12:GLU:HG2	2.02	0.41
51:S5:146:THR:HG21	51:S5:220:VAL:HG12	2.01	0.41
54:S8:199:LYS:HE2	54:S8:199:LYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:S9:29:LYS:O	55:S9:33:GLU:HG2	2.21	0.41
56:C0:52:LYS:HG3	56:C0:54:TYR:CD2	2.56	0.41
63:C7:60:ARG:NE	63:C7:66:VAL:HG21	2.36	0.41
64:C8:80:LYS:HA	64:C8:80:LYS:HD2	1.67	0.41
70:D4:12:VAL:C	70:D4:13:ILE:HD12	2.45	0.41
72:D6:32:LYS:HA	72:D6:35:ALA:HB2	2.03	0.41
72:D6:45:VAL:HG11	72:D6:53:LEU:HG	2.02	0.41
78:SR:25:THR:HG23	78:SR:293:ALA:HB1	2.03	0.41
1:5:26:A:N3	1:5:328:U:O2'	2.48	0.41
1:5:576:C:H2'	1:5:577:C:C6	2.55	0.41
1:5:736:A:H2'	1:5:737:G:O4'	2.20	0.41
1:5:781:G:C2	1:5:782:U:C6	3.09	0.41
1:5:1307:G:C2	1:5:1308:A:C2	3.09	0.41
1:5:1757:A:H2'	1:5:1758:G:C8	2.56	0.41
2:7:6:C:H5''	7:l5:54:ARG:NH2	2.34	0.41
2:7:33:U:H2'	2:7:34:C:O4'	2.21	0.41
3:8:141:C:OP1	16:m5:109:ARG:NH1	2.53	0.41
5:l3:57:VAL:HG23	5:l3:358:TRP:HE3	1.86	0.41
6:l4:80:GLY:HA2	6:l4:85:SER:OG	2.20	0.41
12:m0:156:ARG:HD3	12:m0:163:GLN:O	2.21	0.41
80:m2:102:UNK:HA	80:m2:140:UNK:HA	2.03	0.41
15:m4:89:ALA:HB1	15:m4:92:GLU:HB3	2.01	0.41
81:n4:39:LEU:HD13	81:n4:39:LEU:HA	1.90	0.41
29:n8:77:LYS:HB2	29:n8:78:LEU:H	1.72	0.41
45:6:104:A:N6	45:6:308:C:H5''	2.35	0.41
45:6:271:A:N3	45:6:285:G:C2	2.88	0.41
45:6:515:A:N6	45:6:537:G:HO2'	2.15	0.41
45:6:553:G:N2	45:6:571:G:O6	2.54	0.41
45:6:656:G:N2	45:6:675:U:O2	2.54	0.41
45:6:828:U:O2	45:6:845:G:C2	2.73	0.41
45:6:1255:G:O6	58:c2:46:ARG:HD3	2.21	0.41
45:6:1621:U:H2'	45:6:1622:G:H8	1.80	0.41
45:6:1788:G:P	60:c4:127:ARG:HH22	2.43	0.41
49:s3:91:VAL:O	49:s3:92:GLN:HB3	2.20	0.41
57:c1:99:ARG:HG2	69:d3:9:LEU:O	2.21	0.41
61:c5:41:VAL:HG13	61:c5:84:ILE:HG21	2.02	0.41
62:c6:97:VAL:HG13	62:c6:98:ASP:N	2.36	0.41
62:c6:107:LYS:HB2	62:c6:107:LYS:HE3	1.86	0.41
65:c9:109:GLU:HG2	65:c9:114:VAL:O	2.21	0.41
67:d1:38:LYS:HB2	67:d1:38:LYS:HE3	1.80	0.41
67:d1:70:ASN:HB3	67:d1:83:TRP:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d6:62:TYR:CD1	72:d6:63:ALA:N	2.89	0.41
78:sR:40:LYS:HA	78:sR:68:VAL:HG23	2.02	0.41
79:sM:84:LYS:HD3	79:sM:85:SER:H	1.84	0.41
1:1:3:U:H2'	1:1:4:U:O4'	2.20	0.41
1:1:216:G:H4'	27:N6:19:TYR:CE2	2.55	0.41
1:1:290:G:OP1	16:M5:98:LEU:HD23	2.20	0.41
1:1:370:U:C4	1:1:376:G:O6	2.74	0.41
1:1:378:A:H3'	1:1:379:C:C6	2.55	0.41
1:1:539:C:H2'	1:1:540:U:C6	2.56	0.41
1:1:702:C:O2	1:1:788:C:H4'	2.20	0.41
1:1:785:G:N1	19:M8:90:ASP:HA	2.35	0.41
1:1:937:G:OP2	29:N8:27:LYS:HG2	2.20	0.41
1:1:1049:C:H2'	1:1:1050:U:H6	1.85	0.41
1:1:1103:A:OP2	1:1:1103:A:H4'	2.20	0.41
1:1:1509:A:H8	1:1:1509:A:O5'	2.02	0.41
1:1:2206:G:H2'	1:1:2206:G:N3	2.36	0.41
1:1:2373:A:N7	1:1:2867:C:H1'	2.35	0.41
1:1:2842:U:O2	1:1:2842:U:H2'	2.21	0.41
1:1:2984:C:H2'	1:1:2985:C:C6	2.55	0.41
1:1:3366:G:OP2	85:1:3996:LLL:H412	2.21	0.41
4:L2:201:GLY:O	4:L2:204:MET:HG3	2.21	0.41
6:L4:193:LYS:HE3	6:L4:193:LYS:HB3	1.68	0.41
10:L8:245:LYS:O	10:L8:249:ARG:N	2.48	0.41
11:L9:112:ILE:HD11	11:L9:134:ILE:HD13	2.01	0.41
12:M0:182:LEU:HD23	12:M0:185:ARG:HD2	2.03	0.41
16:M5:91:GLU:HB2	43:Q2:50:PHE:CZ	2.54	0.41
17:M6:129:LEU:HD12	17:M6:129:LEU:HA	1.86	0.41
18:M7:112:LEU:HA	18:M7:112:LEU:HD12	1.82	0.41
28:N7:19:ALA:HB1	35:O4:89:ILE:HD11	2.02	0.41
29:N8:45:MET:HE2	29:N8:52:TYR:CD2	2.56	0.41
33:O2:19:ARG:NH1	33:O2:28:VAL:HG13	2.36	0.41
33:O2:50:ILE:O	33:O2:50:ILE:HG13	2.20	0.41
45:2:911:U:O2'	45:2:915:A:H1'	2.21	0.41
45:2:1003:A:C4	45:2:1005:A:C6	3.09	0.41
45:2:1146:G:C6	45:2:1147:A:C6	3.08	0.41
45:2:1161:C:H1'	45:2:1620:C:N4	2.34	0.41
45:2:1425:A:H8	45:2:1425:A:O5'	2.03	0.41
45:2:1492:A:H2'	45:2:1493:A:C8	2.55	0.41
47:S1:38:PHE:HB2	47:S1:39:GLU:H	1.77	0.41
47:S1:61:LEU:HD13	47:S1:61:LEU:N	2.36	0.41
47:S1:107:THR:HG21	60:C4:117:ASP:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:S3:103:GLU:OE1	49:S3:173:ARG:NE	2.33	0.41
50:S4:140:VAL:HA	50:S4:145:ARG:O	2.20	0.41
50:S4:159:THR:CG2	50:S4:173:ILE:HB	2.50	0.41
50:S4:206:ASP:CB	50:S4:222:LEU:HD12	2.50	0.41
52:S6:77:LEU:HB3	52:S6:84:TYR:HB2	2.02	0.41
53:S7:39:ARG:HG2	53:S7:40:PRO:HD3	2.02	0.41
53:S7:49:ILE:HG21	53:S7:175:LYS:HG2	2.02	0.41
54:S8:194:ARG:CZ	54:S8:194:ARG:HB2	2.50	0.41
61:C5:112:LEU:HD23	61:C5:112:LEU:HA	1.93	0.41
66:D0:103:ILE:HD12	66:D0:103:ILE:HA	1.85	0.41
68:D2:93:LEU:HD23	68:D2:93:LEU:H	1.85	0.41
78:SR:159:ASN:ND2	78:SR:163:ASP:HA	2.36	0.41
1:5:916:G:H5'	1:5:917:A:OP1	2.20	0.41
1:5:1057:A:N3	1:5:1057:A:H2'	2.35	0.41
1:5:1936:A:H2'	1:5:1937:U:O4'	2.21	0.41
1:5:2526:C:C2	10:l8:48:ARG:NH2	2.89	0.41
1:5:2660:G:H2'	1:5:2661:G:H8	1.86	0.41
1:5:2661:G:H2'	1:5:2662:G:C8	2.56	0.41
4:l2:27:ALA:O	4:l2:28:LYS:HG3	2.21	0.41
4:l2:209:HIS:ND1	4:l2:210:PRO:HD2	2.36	0.41
6:l4:233:LEU:HA	6:l4:233:LEU:HD23	1.75	0.41
7:l5:25:GLU:HG2	7:l5:25:GLU:H	1.53	0.41
9:l7:83:LEU:HD22	9:l7:84:VAL:N	2.35	0.41
12:m0:140:THR:HG21	12:m0:144:ASN:HB3	2.02	0.41
15:m4:123:LEU:HB2	17:m6:194:LEU:HD21	2.03	0.41
19:m8:79:LYS:HA	19:m8:136:ASN:OD1	2.21	0.41
19:m8:111:ARG:HA	19:m8:114:ILE:HB	2.02	0.41
20:m9:15:VAL:HG11	20:m9:52:LYS:HB2	2.03	0.41
22:n1:70:SER:O	22:n1:93:VAL:HG23	2.19	0.41
24:n3:11:PHE:HB2	24:n3:88:ARG:NH1	2.36	0.41
29:n8:139:ARG:O	29:n8:142:GLY:N	2.41	0.41
32:o1:44:MET:HB2	32:o1:44:MET:HE2	1.84	0.41
36:o5:61:GLN:HG3	36:o5:62:GLN:N	2.34	0.41
39:o8:43:PHE:HE2	39:o8:56:ILE:HD13	1.82	0.41
43:q2:45:ARG:O	43:q2:48:SER:OG	2.32	0.41
45:6:447:U:C4	45:6:448:C:C4	3.09	0.41
45:6:651:G:N3	45:6:651:G:H2'	2.35	0.41
45:6:887:A:H2'	45:6:888:U:C6	2.56	0.41
46:s0:76:ILE:HG12	46:s0:98:ILE:HB	2.01	0.41
48:s2:118:ALA:HB3	48:s2:124:ALA:HB2	2.01	0.41
48:s2:157:LYS:NZ	68:d2:92:ASN:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:43:PHE:N	51:s5:46:TRP:O	2.42	0.41
52:s6:51:LYS:HB3	52:s6:51:LYS:HE2	1.86	0.41
52:s6:84:TYR:CE1	52:s6:86:PRO:HG3	2.56	0.41
55:s9:59:LEU:HD22	55:s9:69:ARG:HA	2.02	0.41
60:c4:28:VAL:HG11	60:c4:101:ALA:HB1	2.02	0.41
61:c5:86:VAL:HG22	61:c5:89:MET:HE3	2.01	0.41
62:c6:113:ASP:OD2	62:c6:116:LEU:N	2.54	0.41
63:c7:72:LYS:HA	63:c7:72:LYS:HD2	1.60	0.41
64:c8:4:VAL:HG22	71:d5:78:ILE:CG2	2.50	0.41
64:c8:12:GLN:O	64:c8:59:GLY:HA2	2.21	0.41
65:c9:28:LEU:HD12	65:c9:55:TYR:CD1	2.55	0.41
1:1:277:G:H1'	16:M5:93:LYS:HG2	2.02	0.41
1:1:794:U:H2'	1:1:795:G:H8	1.86	0.41
1:1:807:A:H2	1:1:808:A:C8	2.39	0.41
1:1:1128:U:P	12:M0:4:ARG:HH22	2.40	0.41
1:1:1456:A:N6	1:1:1477:A:H4'	2.36	0.41
1:1:1564:U:H2'	1:1:1565:G:O4'	2.21	0.41
1:1:2407:C:H1'	1:1:2818:U:O2	2.21	0.41
1:1:2538:U:H4'	1:1:2539:C:OP2	2.20	0.41
1:1:2896:A:O3'	41:Q0:122:ARG:NH2	2.39	0.41
1:1:3294:A:OP1	5:L3:128:LYS:HD2	2.20	0.41
4:L2:83:HIS:CE1	4:L2:86:GLN:HB2	2.56	0.41
6:L4:203:ARG:HG2	6:L4:246:ARG:HH22	1.84	0.41
9:L7:174:GLY:HA2	9:L7:177:GLY:O	2.21	0.41
10:L8:48:ARG:NH2	10:L8:49:TYR:HE2	2.19	0.41
14:M3:3:ILE:HD11	29:N8:34:MET:HA	2.03	0.41
14:M3:59:ARG:HE	14:M3:69:VAL:HG23	1.86	0.41
15:M4:24:LYS:O	15:M4:29:ALA:HB1	2.20	0.41
26:N5:63:ILE:HD11	26:N5:84:PHE:CG	2.55	0.41
32:O1:36:ILE:HD12	32:O1:59:ILE:HD11	2.02	0.41
41:Q0:92:ASP:C	41:Q0:93:LYS:HG2	2.45	0.41
45:2:37:U:O2	45:2:770:A:H2	2.04	0.41
45:2:967:A:H2'	45:2:968:U:O4'	2.20	0.41
45:2:1030:A:H4'	45:2:1031:U:OP2	2.21	0.41
45:2:1134:C:H2'	45:2:1135:U:O4'	2.21	0.41
45:2:1534:G:OP2	71:D5:74:SER:OG	2.24	0.41
46:S0:59:LEU:CD1	67:D1:79:LEU:HD11	2.51	0.41
46:S0:107:PHE:N	46:S0:107:PHE:CD2	2.89	0.41
47:S1:41:ARG:HH22	47:S1:97:LEU:HD11	1.84	0.41
47:S1:141:ALA:CB	47:S1:210:ILE:HG12	2.50	0.41
47:S1:168:ILE:O	47:S1:172:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:S3:28:GLU:CD	56:C0:56:LYS:HZ1	2.25	0.41
49:S3:136:VAL:HB	49:S3:152:PHE:HB2	2.03	0.41
50:S4:131:LEU:HA	50:S4:137:PRO:HA	2.03	0.41
51:S5:162:VAL:O	74:D8:54:LEU:HD11	2.20	0.41
57:C1:63:LEU:HD12	57:C1:63:LEU:N	2.36	0.41
58:C2:103:LEU:HD23	58:C2:115:VAL:HA	2.03	0.41
59:C3:16:ILE:HG22	68:D2:57:ARG:HH21	1.86	0.41
68:D2:27:ILE:CG1	68:D2:61:ILE:HB	2.49	0.41
72:D6:97:PRO:N	72:D6:98:PRO:HD2	2.36	0.41
77:E1:89:LYS:HA	77:E1:89:LYS:HD2	1.84	0.41
78:SR:134:TRP:CE3	78:SR:140:CYS:HB2	2.55	0.41
1:5:185:C:H42	1:5:231:G:H1	1.68	0.41
1:5:246:U:H2'	1:5:247:C:O4'	2.20	0.41
1:5:563:U:H2'	1:5:564:G:C8	2.56	0.41
1:5:897:U:H2'	1:5:898:U:H6	1.83	0.41
1:5:916:G:N7	1:5:924:G:C6	2.89	0.41
1:5:1012:G:N2	1:5:1039:U:C2	2.88	0.41
1:5:1522:U:H4'	1:5:1604:G:O2'	2.21	0.41
1:5:2142:A:H4'	1:5:2143:A:O5'	2.21	0.41
1:5:2761:G:O2'	1:5:2795:U:O4	2.29	0.41
1:5:3267:A:H2'	8:l6:69:PHE:CZ	2.56	0.41
85:7:232:LLL:H51	85:7:232:LLL:H322	1.85	0.41
4:l2:139:HIS:HA	4:l2:146:THR:HA	2.02	0.41
4:l2:169:ILE:HG22	4:l2:170:ALA:O	2.21	0.41
5:l3:152:LYS:HE3	5:l3:192:VAL:HG13	2.03	0.41
6:l4:205:PRO:HB2	6:l4:249:ILE:HD12	2.02	0.41
7:l5:95:TRP:CD1	7:l5:95:TRP:C	2.99	0.41
7:l5:236:LEU:O	7:l5:239:ILE:N	2.54	0.41
9:l7:160:ARG:HD2	9:l7:203:TRP:NE1	2.36	0.41
10:l8:140:VAL:O	10:l8:144:GLU:HG3	2.20	0.41
11:l9:24:ILE:HD11	11:l9:39:LYS:HD2	2.03	0.41
12:m0:176:LEU:HD21	12:m0:199:PHE:CE1	2.56	0.41
13:m1:16:LYS:HG3	13:m1:130:VAL:HG13	2.02	0.41
13:m1:91:LEU:O	13:m1:171:VAL:HA	2.21	0.41
13:m1:164:LYS:HE3	13:m1:171:VAL:HG12	2.03	0.41
17:m6:16:VAL:HG21	17:m6:43:ILE:HG12	2.02	0.41
18:m7:4:TYR:CE1	18:m7:16:SER:HB2	2.56	0.41
23:n2:76:LEU:HD12	23:n2:76:LEU:HA	1.72	0.41
24:n3:23:MET:HB2	24:n3:98:ASN:C	2.45	0.41
27:n6:23:PRO:HD2	27:n6:26:GLN:HG2	2.02	0.41
29:n8:68:PHE:CD2	29:n8:68:PHE:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:o0:26:GLY:O	31:o0:30:THR:HG23	2.21	0.41
32:o1:46:THR:O	32:o1:47:ASP:HB3	2.20	0.41
35:o4:81:CYS:O	35:o4:82:ALA:HB3	2.20	0.41
45:6:864:U:H3'	68:d2:28:ARG:HH22	1.86	0.41
45:6:877:G:N7	85:6:2167:LLL:H221	2.35	0.41
45:6:993:A:H4'	45:6:1777:G:O2'	2.20	0.41
45:6:1039:A:C4	45:6:1040:G:C8	3.08	0.41
45:6:1230:A:C8	45:6:1258:U:C5	3.05	0.41
45:6:1232:U:C4	77:e1:97:LYS:HE2	2.56	0.41
45:6:1456:C:OP1	45:6:1457:C:O2'	2.28	0.41
46:s0:36:TYR:OH	67:d1:66:ASP:OD2	2.35	0.41
46:s0:195:TRP:CE2	46:s0:197:ILE:HB	2.56	0.41
47:s1:67:GLU:OE1	47:s1:83:LYS:HD2	2.21	0.41
50:s4:20:LEU:HD23	50:s4:50:ASN:HD21	1.85	0.41
50:s4:246:LEU:HD23	50:s4:254:ARG:HD2	2.03	0.41
52:s6:34:GLN:O	52:s6:51:LYS:HA	2.20	0.41
57:c1:97:TYR:CE1	69:d3:15:LEU:HB3	2.56	0.41
64:c8:8:GLN:C	64:c8:10:SER:H	2.29	0.41
65:c9:57:ARG:HH11	65:c9:57:ARG:CB	2.28	0.41
65:c9:86:ARG:HG3	65:c9:90:PRO:O	2.21	0.41
68:d2:89:TRP:O	68:d2:93:LEU:HD23	2.20	0.41
71:d5:82:HIS:O	71:d5:85:LYS:N	2.39	0.41
76:e0:33:ARG:HB3	76:e0:33:ARG:NH1	2.35	0.41
78:sR:69:GLN:N	78:sR:83:ALA:O	2.50	0.41
78:sR:136:ILE:H	78:sR:136:ILE:HG13	1.58	0.41
1:1:373:A:N1	1:1:394:G:H4'	2.36	0.41
1:1:406:G:H1'	3:4:16:G:N2	2.36	0.41
1:1:423:A:H2'	1:1:424:G:O4'	2.20	0.41
1:1:606:C:O2'	1:1:607:A:N3	2.54	0.41
1:1:618:C:H5'	18:M7:169:THR:HG23	2.02	0.41
1:1:813:G:N3	1:1:813:G:H2'	2.36	0.41
1:1:840:C:C2	1:1:841:A:C8	3.08	0.41
1:1:979:U:H4'	1:1:980:A:O5'	2.21	0.41
1:1:987:U:C2	1:1:1098:A:C2	3.08	0.41
1:1:1440:G:H2'	1:1:1441:G:O4'	2.21	0.41
1:1:1481:A:H2'	1:1:1858:A:H1'	2.02	0.41
1:1:1723:A:N1	1:1:1788:C:O2'	2.38	0.41
1:1:1783:U:H2'	1:1:1784:G:H8	1.84	0.41
1:1:1799:A:H8	1:1:1799:A:O5'	2.04	0.41
1:1:2367:A:H2'	1:1:2368:A:O4'	2.21	0.41
1:1:2389:C:H2'	1:1:2390:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2397:A:H2'	1:1:2873:U:O4'	2.21	0.41
1:1:2436:U:H3	1:1:2511:A:N6	2.16	0.41
1:1:2893:C:H4'	1:1:3129:A:H5''	2.03	0.41
1:1:2948:C:O2'	5:L3:242:THR:HA	2.20	0.41
1:1:3147:G:H4'	5:L3:102:LEU:O	2.21	0.41
1:1:3174:A:C4	1:1:3279:A:H1'	2.56	0.41
1:1:3372:A:C6	1:1:3373:U:C4	3.09	0.41
3:4:3:A:O3'	18:M7:61:ARG:HD3	2.21	0.41
3:4:68:G:OP1	38:O7:86:ALA:N	2.51	0.41
4:L2:113:VAL:HG23	4:L2:166:ILE:HA	2.02	0.41
4:L2:125:ALA:O	4:L2:128:ARG:HD2	2.21	0.41
4:L2:170:ALA:CB	44:Q3:65:ALA:HB1	2.50	0.41
5:L3:183:LEU:HD12	5:L3:183:LEU:HA	1.91	0.41
5:L3:252:ILE:HG13	5:L3:264:VAL:HG11	2.03	0.41
8:L6:51:ARG:HH11	8:L6:51:ARG:HD3	1.75	0.41
9:L7:90:LYS:HB2	9:L7:220:PHE:CE1	2.56	0.41
10:L8:153:ILE:O	10:L8:179:ILE:HA	2.21	0.41
11:L9:92:TYR:CE2	11:L9:101:VAL:HB	2.55	0.41
13:M1:63:GLU:HB3	13:M1:65:ILE:CD1	2.50	0.41
13:M1:138:VAL:HG12	13:M1:146:GLY:O	2.21	0.41
14:M3:168:ARG:HH11	14:M3:168:ARG:HG3	1.86	0.41
15:M4:60:LEU:HD23	15:M4:60:LEU:HA	1.84	0.41
17:M6:147:TRP:CH2	17:M6:150:GLU:HA	2.55	0.41
18:M7:127:ARG:HB2	18:M7:127:ARG:NH1	2.34	0.41
20:M9:7:GLN:HG2	20:M9:32:ILE:O	2.21	0.41
20:M9:126:GLU:HB3	20:M9:132:PHE:HE2	1.85	0.41
22:N1:15:PHE:CE2	22:N1:44:ALA:HB3	2.56	0.41
24:N3:10:LYS:HB2	24:N3:125:LEU:HD22	2.02	0.41
24:N3:26:ALA:O	24:N3:115:THR:HG22	2.20	0.41
25:N4:17:ARG:HD3	25:N4:17:ARG:HA	1.91	0.41
31:O0:98:SER:O	31:O0:100:ILE:HD12	2.21	0.41
32:O1:20:LEU:HD23	32:O1:20:LEU:HA	1.88	0.41
32:O1:37:LYS:HA	32:O1:49:VAL:HG11	2.02	0.41
34:O3:20:LYS:HB3	34:O3:20:LYS:HE2	1.73	0.41
34:O3:72:THR:HG23	34:O3:83:ALA:HA	2.03	0.41
40:O9:29:LEU:HD13	40:O9:29:LEU:HA	1.86	0.41
42:Q1:12:ARG:NH2	45:2:1778:G:O6	2.53	0.41
43:Q2:35:LEU:C	43:Q2:37:ALA:H	2.29	0.41
44:Q3:55:TRP:CD1	44:Q3:66:GLY:HA3	2.56	0.41
45:2:97:C:O2	45:2:425:A:O2'	2.33	0.41
45:2:269:G:H2'	45:2:270:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:320:U:O2	45:2:320:U:H2'	2.20	0.41
45:2:558:U:O2'	45:2:559:C:O5'	2.33	0.41
45:2:614:C:H42	45:2:1107:G:H1	1.68	0.41
45:2:866:G:H5''	59:C3:2:GLY:HA2	2.03	0.41
45:2:1065:A:H4'	47:S1:205:PHE:CE2	2.56	0.41
45:2:1156:C:C2'	45:2:1157:A:H5'	2.51	0.41
45:2:1396:U:H2'	45:2:1397:U:H6	1.86	0.41
45:2:1438:G:C5	45:2:1439:C:C4	3.08	0.41
45:2:1453:G:H2'	45:2:1454:G:C8	2.51	0.41
45:2:1498:G:H2'	45:2:1499:G:H8	1.86	0.41
45:2:1530:C:OP2	71:D5:95:HIS:HD2	2.04	0.41
45:2:1629:G:H2'	45:2:1630:U:H6	1.84	0.41
45:2:1642:G:O2'	45:2:1781:A:O3'	2.35	0.41
46:S0:203:PHE:HD2	46:S0:203:PHE:HA	1.71	0.41
47:S1:21:VAL:HG23	47:S1:22:ASP:H	1.86	0.41
50:S4:103:TYR:CE2	50:S4:184:THR:HG22	2.56	0.41
50:S4:149:TYR:N	50:S4:150:PRO:HD3	2.35	0.41
50:S4:211:LYS:HA	50:S4:216:ASN:O	2.21	0.41
51:S5:43:PHE:O	51:S5:44:ASN:C	2.62	0.41
51:S5:213:LYS:HA	51:S5:213:LYS:HD3	1.93	0.41
51:S5:215:ASP:O	51:S5:219:ARG:N	2.52	0.41
53:S7:177:THR:OG1	53:S7:178:GLY:N	2.53	0.41
54:S8:172:ARG:NE	54:S8:175:GLN:HG3	2.35	0.41
54:S8:195:ARG:H	54:S8:195:ARG:HG2	1.73	0.41
55:S9:124:HIS:CE1	55:S9:128:LEU:HD21	2.56	0.41
55:S9:126:ARG:HD2	76:E0:33:ARG:NH1	2.36	0.41
55:S9:174:ARG:HA	55:S9:174:ARG:HD2	1.68	0.41
59:C3:64:ARG:O	59:C3:64:ARG:HD3	2.21	0.41
61:C5:124:THR:HA	61:C5:125:PRO:HD3	1.92	0.41
62:C6:34:SER:OG	62:C6:35:PRO:HD2	2.21	0.41
62:C6:97:VAL:HG22	62:C6:98:ASP:N	2.35	0.41
64:C8:18:LEU:HD21	64:C8:70:VAL:HG13	2.02	0.41
64:C8:30:TYR:HE2	64:C8:40:ARG:NH1	2.17	0.41
64:C8:109:LEU:O	64:C8:113:LEU:HD12	2.21	0.41
65:C9:15:ILE:HG23	65:C9:59:ALA:C	2.46	0.41
66:D0:34:LEU:HD11	66:D0:89:ARG:CG	2.50	0.41
67:D1:64:GLU:OE1	73:D7:2:VAL:HG13	2.21	0.41
69:D3:107:PHE:CD2	69:D3:114:LYS:HB3	2.56	0.41
72:D6:10:ARG:HH11	72:D6:36:ILE:H	1.67	0.41
1:5:37:U:H2'	1:5:38:U:H6	1.86	0.41
1:5:149:U:H5'	16:m5:55:ALA:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:221:A:H61	27:n6:103:LYS:HE3	1.86	0.41
1:5:236:G:H2'	1:5:237:G:O4'	2.20	0.41
1:5:346:C:OP1	6:l4:52:VAL:HG22	2.21	0.41
1:5:392:G:O2'	1:5:393:U:H5'	2.21	0.41
1:5:574:U:C4	1:5:575:G:N7	2.88	0.41
1:5:590:G:C2	1:5:610:G:H2'	2.56	0.41
1:5:688:G:H8	1:5:688:G:O5'	2.03	0.41
1:5:721:G:C2	1:5:722:G:C8	3.09	0.41
1:5:874:U:H5''	1:5:2950:G:OP1	2.21	0.41
1:5:921:A:OP1	1:5:921:A:H3'	2.21	0.41
1:5:975:C:C2	1:5:976:U:C5	3.09	0.41
1:5:1013:G:C2	1:5:1014:U:H1'	2.55	0.41
1:5:1054:A:H5''	1:5:2637:A:H61	1.85	0.41
1:5:1108:U:H2'	1:5:1109:U:H6	1.84	0.41
1:5:1177:G:H5'	34:o3:18:ARG:HH12	1.86	0.41
1:5:1214:U:H2'	1:5:1215:U:C6	2.55	0.41
1:5:1347:U:O2'	6:l4:305:ALA:HB2	2.21	0.41
1:5:1476:G:H4'	32:o1:60:TRP:O	2.21	0.41
1:5:1478:C:H2'	1:5:1479:U:H6	1.86	0.41
1:5:1481:A:C5	1:5:1859:A:C8	3.08	0.41
1:5:1554:U:H4'	1:5:1555:U:OP1	2.18	0.41
1:5:1591:G:O2'	1:5:1799:A:N1	2.51	0.41
1:5:1668:G:C5	1:5:1669:C:C5	3.09	0.41
1:5:1821:U:O2	35:o4:67:LYS:HB2	2.21	0.41
1:5:1908:A:H2'	1:5:1909:A:O4'	2.20	0.41
1:5:2531:C:H2'	1:5:2532:U:H6	1.86	0.41
1:5:2576:G:H2'	1:5:2577:C:H6	1.86	0.41
1:5:2651:G:C2	1:5:2796:G:C4	3.09	0.41
1:5:2706:G:N3	1:5:2706:G:H2'	2.36	0.41
1:5:2714:G:H4'	1:5:2715:A:H5''	2.02	0.41
1:5:2794:G:O2'	1:5:2795:U:OP2	2.32	0.41
1:5:2796:G:H2'	43:q2:62:ALA:HB2	2.01	0.41
1:5:3041:U:C4	1:5:3042:U:C4	3.08	0.41
1:5:3045:G:H1	1:5:3096:C:H42	1.68	0.41
1:5:3222:U:O2'	1:5:3223:A:H5'	2.20	0.41
1:5:3228:C:H5''	15:m4:137:LYS:NZ	2.36	0.41
2:7:37:G:C2	2:7:41:G:C2	3.09	0.41
2:7:79:A:H2'	2:7:80:G:O4'	2.21	0.41
3:8:25:G:H2'	3:8:26:U:O4'	2.21	0.41
3:8:97:A:C2	3:8:98:U:C2	3.08	0.41
5:l3:385:LYS:HB2	5:l3:385:LYS:HE3	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l4:13:GLY:C	6:l4:14:GLU:HG3	2.46	0.41
6:l4:156:LEU:HD23	6:l4:159:ILE:HD12	2.02	0.41
6:l4:281:ILE:HG22	19:m8:25:TYR:HB3	2.03	0.41
7:l5:105:ILE:HA	7:l5:105:ILE:HD12	1.81	0.41
7:l5:153:THR:HG23	7:l5:179:ARG:HD2	2.03	0.41
7:l5:277:LEU:HB3	7:l5:281:GLU:CG	2.51	0.41
8:l6:175:LYS:HB2	15:m4:112:LEU:O	2.20	0.41
10:l8:81:THR:HG23	10:l8:82:LEU:H	1.86	0.41
11:l9:174:LYS:HG3	11:l9:175:PHE:CD2	2.56	0.41
13:m1:15:GLU:OE2	13:m1:132:ASN:ND2	2.54	0.41
17:m6:41:LEU:HD21	17:m6:80:PHE:CD1	2.56	0.41
18:m7:46:LYS:O	18:m7:50:GLN:HG3	2.21	0.41
18:m7:82:ARG:C	18:m7:84:PRO:HD3	2.46	0.41
18:m7:95:LEU:HD23	18:m7:95:LEU:HA	1.84	0.41
19:m8:44:PHE:O	19:m8:48:VAL:HG23	2.20	0.41
20:m9:47:ASN:OD1	20:m9:49:THR:HG23	2.21	0.41
22:n1:34:TYR:CE2	22:n1:93:VAL:HG13	2.55	0.41
24:n3:23:MET:HE3	24:n3:100:GLY:CA	2.37	0.41
24:n3:66:LYS:HE2	24:n3:68:GLU:HB2	2.03	0.41
81:n4:25:ASP:OD2	81:n4:27:LYS:HB2	2.21	0.41
26:n5:103:TYR:O	26:n5:138:ARG:NH1	2.54	0.41
27:n6:6:LEU:O	27:n6:6:LEU:HD13	2.21	0.41
31:o0:68:TYR:HD2	31:o0:69:TYR:N	2.19	0.41
39:o8:11:PHE:O	39:o8:15:THR:HG23	2.20	0.41
82:p0:16:ARG:HB2	82:p0:66:PHE:CZ	2.56	0.41
41:q0:106:ARG:HE	41:q0:106:ARG:HB3	1.63	0.41
43:q2:10:THR:HA	43:q2:20:HIS:CD2	2.56	0.41
43:q2:104:LEU:HA	43:q2:105:GLN:OE1	2.20	0.41
43:q2:105:GLN:HB2	43:q2:106:PHE:CD2	2.55	0.41
44:q3:28:LYS:O	44:q3:32:GLN:HG3	2.21	0.41
45:6:15:U:C4	45:6:16:G:C5	3.09	0.41
45:6:260:U:C3'	45:6:261:U:H5''	2.51	0.41
45:6:280:U:HO2'	45:6:281:G:P	2.35	0.41
45:6:361:C:H2'	45:6:362:G:C8	2.55	0.41
45:6:610:G:H21	69:d3:19:ARG:NH1	2.19	0.41
45:6:622:A:N6	85:6:2166:LLL:H831	2.35	0.41
45:6:835:U:C4	45:6:836:U:C4	3.09	0.41
45:6:884:A:O2'	45:6:885:G:H5'	2.21	0.41
45:6:885:G:H2'	45:6:886:U:C6	2.56	0.41
45:6:1152:A:H2'	45:6:1153:G:C8	2.56	0.41
45:6:1202:A:H1'	45:6:1207:C:H42	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:6:1281:G:H2'	45:6:1282:U:H6	1.86	0.41
45:6:1331:A:H5''	63:c7:45:ARG:NH2	2.36	0.41
45:6:1538:U:C4	45:6:1540:G:C8	3.08	0.41
45:6:1629:G:H2'	45:6:1630:U:H6	1.86	0.41
45:6:1720:G:H8	45:6:1720:G:O5'	2.04	0.41
45:6:1766:A:N1	72:d6:80:HIS:ND1	2.65	0.41
46:s0:75:ALA:HB1	46:s0:174:TRP:CH2	2.56	0.41
46:s0:81:PHE:N	46:s0:81:PHE:CD1	2.88	0.41
46:s0:183:ARG:NH2	46:s0:191:ARG:HB3	2.35	0.41
48:s2:139:ILE:HD11	48:s2:218:ILE:HG22	2.02	0.41
49:s3:176:LEU:H	49:s3:176:LEU:HG	1.70	0.41
50:s4:260:GLY:N	50:s4:261:LEU:HA	2.36	0.41
52:s6:57:ASP:OD1	52:s6:72:ARG:NH1	2.53	0.41
53:s7:63:PRO:HB2	53:s7:65:PRO:HD2	2.02	0.41
54:s8:21:PHE:CE1	54:s8:22:ARG:HD3	2.56	0.41
54:s8:64:ASN:O	54:s8:180:ASP:HA	2.21	0.41
55:s9:49:LEU:HA	55:s9:52:ILE:HD12	2.03	0.41
56:c0:76:LEU:C	56:c0:76:LEU:HD13	2.45	0.41
57:c1:99:ARG:HG2	69:d3:9:LEU:HA	2.03	0.41
58:c2:94:ALA:HB1	58:c2:118:ALA:O	2.21	0.41
58:c2:120:VAL:O	58:c2:121:VAL:HG13	2.21	0.41
59:c3:88:LEU:HD21	59:c3:122:ILE:HG23	2.03	0.41
62:c6:19:VAL:O	62:c6:67:VAL:HA	2.21	0.41
64:c8:38:VAL:CG2	64:c8:43:SER:HB2	2.51	0.41
64:c8:57:ARG:NE	71:d5:40:VAL:HG11	2.36	0.41
64:c8:74:GLN:HG2	64:c8:74:GLN:H	1.67	0.41
64:c8:101:LEU:O	64:c8:104:ASN:HB2	2.21	0.41
65:c9:57:ARG:HH21	65:c9:80:TYR:HB3	1.86	0.41
66:d0:61:LYS:HB2	66:d0:86:ILE:HB	2.02	0.41
66:d0:63:LEU:O	66:d0:83:GLU:HA	2.20	0.41
66:d0:97:VAL:HG13	66:d0:98:GLN:N	2.33	0.41
66:d0:108:ILE:HG22	66:d0:109:GLU:N	2.28	0.41
67:d1:69:LEU:HD23	67:d1:69:LEU:HA	1.95	0.41
70:d4:77:ASN:HB2	70:d4:81:GLU:OE1	2.21	0.41
74:d8:64:ARG:HG3	74:d8:65:ARG:H	1.86	0.41
78:sR:105:GLY:C	78:sR:132:LYS:HE3	2.46	0.41
1:1:155:G:O4'	1:1:157:A:H1'	2.21	0.41
1:1:591:G:H1'	8:L6:19:LYS:HG3	2.03	0.41
1:1:737:G:H2'	1:1:738:A:C8	2.55	0.41
1:1:1004:U:C4	1:1:1005:G:N7	2.89	0.41
1:1:1373:A:H8	1:1:1373:A:O5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1522:U:H3'	26:N5:113:LEU:HD22	2.03	0.41
1:1:1637:A:N3	1:1:1709:C:O2'	2.54	0.41
1:1:1815:U:HO2'	1:1:1816:A:P	2.39	0.41
1:1:2138:A:P	85:1:3993:LLL:H33	2.44	0.41
1:1:2268:U:O2'	1:1:2269:U:H5'	2.21	0.41
1:1:2898:G:P	11:L9:173:ARG:NH2	2.93	0.41
4:L2:36:GLU:OE2	4:L2:90:ALA:HB1	2.20	0.41
4:L2:202:VAL:HG13	4:L2:217:GLN:HG2	2.03	0.41
5:L3:57:VAL:HG23	5:L3:358:TRP:HE3	1.86	0.41
6:L4:8:VAL:HG21	6:L4:252:GLU:OE2	2.21	0.41
6:L4:23:PRO:C	6:L4:25:VAL:H	2.27	0.41
11:L9:41:ILE:HA	11:L9:41:ILE:HD13	1.63	0.41
14:M3:46:ILE:O	14:M3:47:ALA:HB3	2.21	0.41
15:M4:113:THR:CG2	15:M4:116:GLU:H	2.33	0.41
16:M5:68:ARG:N	16:M5:126:THR:O	2.50	0.41
18:M7:40:GLU:HB3	18:M7:43:LYS:HB2	2.03	0.41
21:N0:47:LYS:O	21:N0:48:LEU:HD23	2.20	0.41
36:O5:38:ARG:HD2	36:O5:41:LEU:HD12	2.03	0.41
41:Q0:127:LEU:HA	41:Q0:127:LEU:HD23	1.60	0.41
45:2:75:U:C2	45:2:75:U:H5''	2.56	0.41
45:2:347:G:N2	54:S8:14:THR:O	2.54	0.41
45:2:370:A:H2'	45:2:371:G:O4'	2.21	0.41
45:2:448:C:OP1	50:S4:29:PRO:HD3	2.20	0.41
45:2:452:A:H3'	45:2:453:U:H5	1.82	0.41
45:2:523:G:H5''	70:D4:59:GLY:O	2.21	0.41
45:2:609:U:C4	69:D3:26:GLU:HG3	2.56	0.41
45:2:887:A:H2'	45:2:888:U:H6	1.86	0.41
45:2:1002:G:C6	45:2:1003:A:N7	2.88	0.41
45:2:1120:U:H2'	45:2:1121:C:H6	1.86	0.41
45:2:1228:G:H5'	45:2:1229:G:N7	2.36	0.41
45:2:1640:C:O5'	45:2:1640:C:H6	2.04	0.41
45:2:1754:A:H3'	45:2:1755:A:C5'	2.50	0.41
47:S1:134:VAL:HB	47:S1:218:LEU:HD22	2.02	0.41
48:S2:152:HIS:CD2	48:S2:152:HIS:N	2.88	0.41
49:S3:51:ARG:HB3	49:S3:91:VAL:HG22	2.03	0.41
52:S6:158:ILE:HD12	52:S6:158:ILE:HA	1.79	0.41
53:S7:182:VAL:HG12	53:S7:183:PHE:N	2.36	0.41
58:C2:58:LEU:HG	58:C2:125:ASN:H	1.85	0.41
64:C8:26:ILE:C	64:C8:57:ARG:HG3	2.46	0.41
65:C9:134:ARG:HD2	65:C9:135:ILE:HG23	2.03	0.41
67:D1:5:LYS:HD3	67:D1:5:LYS:N	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:D1:10:GLU:OE1	67:D1:11:LEU:HG	2.21	0.41
75:D9:31:ILE:HD13	75:D9:31:ILE:HA	2.00	0.41
78:SR:86:ASP:OD1	78:SR:86:ASP:N	2.53	0.41
1:5:208:C:OP2	6:14:163:LYS:NZ	2.48	0.41
1:5:315:C:C4	1:5:316:U:C4	3.09	0.41
1:5:626:U:OP1	33:o2:14:THR:OG1	2.33	0.41
1:5:770:G:OP2	14:m3:171:ARG:NH1	2.54	0.41
1:5:885:U:H2'	1:5:886:C:H6	1.85	0.41
1:5:912:G:OP2	4:l2:9:ARG:NH1	2.54	0.41
1:5:1687:U:H1'	23:n2:75:TYR:CE2	2.57	0.41
1:5:1760:A:N6	1:5:1766:G:N1	2.69	0.41
1:5:2522:G:O2'	1:5:2523:A:H5'	2.20	0.41
1:5:2659:G:H2'	1:5:2660:G:C8	2.55	0.41
1:5:3112:G:C2	1:5:3121:U:C5	3.08	0.41
1:5:3163:A:O2'	1:5:3164:C:H5'	2.20	0.41
1:5:3379:C:H4'	5:l3:315:GLY:HA2	2.03	0.41
2:7:85:G:H5''	87:7:304:HOH:O	2.21	0.41
3:8:82:U:C1'	3:8:87:G:H5'	2.51	0.41
4:l2:201:GLY:O	4:l2:204:MET:HB2	2.21	0.41
5:l3:53:MET:HE1	5:l3:327:CYS:HB3	2.03	0.41
5:l3:81:THR:HG23	5:l3:81:THR:O	2.21	0.41
22:n1:117:ALA:O	22:n1:121:ALA:N	2.46	0.41
24:n3:39:VAL:HG22	24:n3:52:ALA:HB2	2.02	0.41
29:n8:81:LEU:HD23	29:n8:81:LEU:HA	1.86	0.41
36:o5:100:VAL:HG22	36:o5:101:THR:H	1.85	0.41
37:o6:94:ILE:HD12	37:o6:94:ILE:HA	1.88	0.41
45:6:46:A:N1	45:6:432:G:O2'	2.47	0.41
45:6:477:A:H2	45:6:511:A:H61	1.69	0.41
45:6:571:G:H5''	45:6:572:C:OP2	2.21	0.41
45:6:647:G:H1	45:6:687:G:H1	1.69	0.41
45:6:767:U:O2	45:6:767:U:O4'	2.38	0.41
45:6:1211:A:H1'	61:c5:100:LYS:HA	2.01	0.41
45:6:1238:A:O2'	45:6:1239:U:OP1	2.36	0.41
45:6:1299:G:H2'	45:6:1300:A:C8	2.56	0.41
45:6:1427:A:O2'	45:6:1428:G:OP1	2.36	0.41
45:6:1494:C:H2'	45:6:1495:C:H6	1.86	0.41
47:s1:53:GLY:O	47:s1:54:LEU:HG	2.20	0.41
48:s2:185:LYS:O	48:s2:189:GLN:HG3	2.20	0.41
50:s4:6:LYS:HE2	50:s4:6:LYS:HB2	1.74	0.41
50:s4:180:LEU:HD22	50:s4:180:LEU:HA	1.85	0.41
51:s5:45:LYS:HA	51:s5:45:LYS:HD3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s5:59:VAL:O	51:s5:61:TYR:N	2.52	0.41
56:c0:27:PHE:O	56:c0:29:GLN:N	2.54	0.41
59:c3:83:GLU:HG3	59:c3:84:ILE:H	1.86	0.41
60:c4:50:ALA:C	60:c4:52:ARG:H	2.29	0.41
61:c5:52:LYS:N	61:c5:53:PRO:HD3	2.36	0.41
61:c5:86:VAL:O	61:c5:89:MET:HG2	2.21	0.41
64:c8:11:PHE:HE2	64:c8:13:HIS:CD2	2.39	0.41
77:e1:132:LEU:HB2	77:e1:139:LEU:HD12	2.02	0.41
79:sM:61:ILE:HG23	79:sM:62:ARG:N	2.36	0.41
1:1:195:U:H2'	1:1:196:G:C8	2.56	0.40
1:1:343:U:C5	1:1:657:A:H1'	2.56	0.40
1:1:429:U:H4'	34:O3:88:ASN:O	2.21	0.40
1:1:507:U:O2'	1:1:1166:G:H4'	2.21	0.40
1:1:597:G:O5'	9:L7:41:ARG:HD2	2.20	0.40
1:1:727:G:N2	19:M8:141:ARG:HH11	2.18	0.40
1:1:900:G:C6	1:1:901:G:C5	3.09	0.40
1:1:1700:G:C6	1:1:1701:C:C4	3.09	0.40
1:1:1739:U:O2	35:O4:41:ARG:NH1	2.54	0.40
1:1:1841:A:HO2'	40:O9:45:ARG:HH12	1.68	0.40
1:1:1927:G:OP1	44:Q3:8:VAL:HG22	2.21	0.40
1:1:2115:G:H4'	20:M9:79:GLY:O	2.21	0.40
1:1:2234:G:H2'	1:1:2235:C:O4'	2.21	0.40
1:1:2762:A:H2'	1:1:2763:U:C6	2.56	0.40
1:1:3002:C:H1'	1:1:3147:G:N2	2.36	0.40
1:1:3029:A:C5	1:1:3030:G:H1'	2.56	0.40
5:L3:361:THR:HG22	5:L3:371:GLN:HB3	2.03	0.40
6:L4:74:ILE:HD11	6:L4:76:ARG:NH2	2.37	0.40
6:L4:152:VAL:HG11	6:L4:156:LEU:HD12	2.03	0.40
8:L6:40:LEU:HD13	8:L6:84:VAL:HG21	2.02	0.40
8:L6:52:VAL:HG11	8:L6:65:ILE:HD12	2.02	0.40
9:L7:232:ARG:HD2	9:L7:236:ILE:HA	2.03	0.40
11:L9:72:LYS:HG3	11:L9:76:ASP:OD2	2.21	0.40
13:M1:112:LEU:HD13	13:M1:112:LEU:N	2.36	0.40
14:M3:67:ARG:HG3	14:M3:68:LYS:HG2	2.02	0.40
16:M5:66:VAL:O	16:M5:127:TYR:HA	2.20	0.40
18:M7:54:HIS:HA	18:M7:83:TRP:CD1	2.56	0.40
18:M7:54:HIS:C	18:M7:72:GLN:HE22	2.23	0.40
21:N0:6:GLU:OE1	21:N0:99:ARG:NH2	2.47	0.40
21:N0:44:PHE:O	21:N0:47:LYS:N	2.52	0.40
22:N1:57:TYR:HA	22:N1:60:LYS:HD3	2.03	0.40
23:N2:33:TYR:O	23:N2:37:LEU:HD12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:N5:135:ILE:HD12	26:N5:138:ARG:HE	1.87	0.40
36:O5:119:LYS:O	36:O5:119:LYS:HG3	2.21	0.40
39:O8:42:LYS:HE3	39:O8:42:LYS:HB2	1.92	0.40
43:Q2:63:LYS:HD2	43:Q2:87:ARG:CZ	2.51	0.40
45:2:22:A:C6	45:2:604:A:C6	3.09	0.40
45:2:262:U:H2'	45:2:263:C:O4'	2.21	0.40
45:2:1153:G:N2	45:2:1626:U:O2	2.55	0.40
45:2:1219:A:H3'	45:2:1220:C:C6	2.56	0.40
45:2:1591:C:H2'	45:2:1592:A:H8	1.86	0.40
45:2:1609:U:OP1	62:C6:76:SER:N	2.54	0.40
52:S6:116:LYS:NZ	52:S6:120:GLU:OE2	2.51	0.40
52:S6:118:GLU:H	52:S6:118:GLU:HG2	1.70	0.40
53:S7:21:ALA:O	53:S7:25:VAL:HG23	2.21	0.40
53:S7:31:SER:HB3	53:S7:32:PRO:HD3	2.02	0.40
54:S8:138:ASN:O	54:S8:141:ARG:HB2	2.20	0.40
58:C2:30:VAL:HB	58:C2:132:GLU:HG3	2.02	0.40
61:C5:87:PRO:HG3	61:C5:112:LEU:HD13	2.03	0.40
63:C7:74:GLN:HA	63:C7:77:GLU:HB2	2.02	0.40
64:C8:35:ILE:H	64:C8:35:ILE:HG13	1.71	0.40
65:C9:53:TRP:HA	65:C9:56:LYS:HB2	2.02	0.40
65:C9:65:ILE:HG12	65:C9:71:VAL:HG21	2.03	0.40
65:C9:118:PRO:HD2	65:C9:123:ARG:NH2	2.36	0.40
71:D5:69:LEU:O	71:D5:70:LYS:HD3	2.21	0.40
1:5:194:U:H6	1:5:194:U:O5'	2.04	0.40
1:5:379:C:H2'	1:5:380:U:H6	1.86	0.40
1:5:511:G:N2	1:5:512:U:H1'	2.36	0.40
1:5:591:G:N2	1:5:612:U:OP1	2.40	0.40
1:5:610:G:C8	6:14:312:VAL:HG21	2.56	0.40
1:5:716:A:O3'	1:5:718:G:N2	2.54	0.40
1:5:731:U:H2'	1:5:732:C:C6	2.55	0.40
1:5:901:G:H2'	1:5:902:G:C8	2.54	0.40
1:5:1135:A:C2	1:5:1136:A:C8	3.09	0.40
1:5:1618:G:H4'	3:8:129:C:H1'	2.01	0.40
1:5:1839:A:N6	1:5:1843:C:C2	2.89	0.40
1:5:2155:G:OP1	4:12:241:ARG:HG2	2.21	0.40
1:5:2540:A:H2'	1:5:2541:U:H5''	2.03	0.40
1:5:2729:U:H2'	1:5:2730:G:O4'	2.21	0.40
1:5:3043:C:H5'	5:13:9:PRO:HG2	2.03	0.40
1:5:3242:G:H5'	5:13:154:TYR:CE1	2.56	0.40
3:8:49:G:H4'	36:o5:35:LYS:HE2	2.03	0.40
3:8:113:U:O2'	3:8:114:G:OP2	2.26	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l2:54:ARG:HG2	4:l2:55:GLY:O	2.21	0.40
4:l2:112:ILE:HD11	44:q3:79:VAL:CG1	2.49	0.40
6:l4:180:LYS:HE3	6:l4:180:LYS:HB3	1.84	0.40
7:l5:15:ARG:HH11	7:l5:15:ARG:HD3	1.69	0.40
7:l5:287:ALA:HA	7:l5:290:ILE:HB	2.03	0.40
10:l8:178:ALA:HB2	10:l8:218:ILE:CG2	2.51	0.40
16:m5:140:LYS:HD3	16:m5:143:ARG:HD3	2.02	0.40
17:m6:65:ASN:C	17:m6:67:THR:H	2.28	0.40
19:m8:54:LEU:HB3	19:m8:58:ASN:HB2	2.03	0.40
19:m8:150:VAL:HA	19:m8:153:PHE:CD1	2.56	0.40
27:n6:126:LEU:HD22	27:n6:127:GLU:OE1	2.21	0.40
36:o5:21:LEU:O	36:o5:24:LEU:N	2.53	0.40
82:p0:15:LEU:O	82:p0:19:LEU:HG	2.20	0.40
41:q0:92:ASP:C	41:q0:93:LYS:HG2	2.46	0.40
45:6:260:U:H5	54:s8:43:ILE:HB	1.85	0.40
45:6:275:C:N4	45:6:276:C:N4	2.70	0.40
45:6:275:C:H2'	45:6:276:C:O4'	2.21	0.40
45:6:386:G:H2'	45:6:387:A:C8	2.55	0.40
45:6:427:C:C4	45:6:428:A:N7	2.89	0.40
45:6:647:G:H22	45:6:687:G:H1	1.70	0.40
45:6:889:U:H2'	45:6:890:C:O4'	2.21	0.40
45:6:990:C:O2'	60:c4:127:ARG:HD3	2.21	0.40
45:6:1492:A:N7	45:6:1493:A:C2	2.90	0.40
45:6:1587:A:H8	45:6:1587:A:O5'	2.03	0.40
47:s1:126:THR:HG22	47:s1:136:ARG:HE	1.86	0.40
49:s3:56:GLN:O	49:s3:60:GLY:N	2.54	0.40
50:s4:11:ARG:HH11	50:s4:20:LEU:CD2	2.27	0.40
55:s9:133:HIS:C	55:s9:134:ILE:HG13	2.47	0.40
57:c1:35:TYR:CD2	57:c1:49:ILE:HG12	2.56	0.40
57:c1:40:LEU:HD12	57:c1:40:LEU:HA	1.95	0.40
59:c3:63:ALA:O	59:c3:67:THR:OG1	2.26	0.40
60:c4:28:VAL:CG1	60:c4:101:ALA:HB1	2.51	0.40
62:c6:82:ARG:HH22	62:c6:114:ARG:HG3	1.86	0.40
66:d0:71:PRO:O	66:d0:72:ASN:CG	2.64	0.40
75:d9:4:GLU:O	75:d9:6:VAL:HG22	2.22	0.40
1:1:434:U:H2'	1:1:435:C:C6	2.56	0.40
1:1:739:G:C2	1:1:740:G:C8	3.09	0.40
1:1:1504:A:N7	1:1:1505:C:C5	2.90	0.40
1:1:1507:G:H4'	87:1:4123:HOH:O	2.21	0.40
1:1:1618:G:H2'	1:1:1619:A:O4'	2.21	0.40
1:1:1791:C:H2'	1:1:1792:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2154:U:H4'	4:L2:240:ALA:CB	2.51	0.40
1:1:2635:A:P	12:M0:15:LYS:HZ1	2.44	0.40
1:1:2672:G:O6	1:1:2673:A:N6	2.54	0.40
1:1:2746:A:H2	7:L5:146:LEU:HB3	1.86	0.40
1:1:2916:U:H1'	24:N3:44:SER:CB	2.51	0.40
1:1:3019:U:C4	1:1:3020:U:C4	3.09	0.40
1:1:3106:A:H61	1:1:3128:G:H1'	1.86	0.40
1:1:3173:G:N3	1:1:3173:G:H2'	2.35	0.40
1:1:3353:G:O2'	1:1:3354:U:OP1	2.39	0.40
5:L3:73:VAL:HG13	24:N3:89:ASP:O	2.21	0.40
5:L3:238:LEU:HB2	5:L3:246:LEU:O	2.21	0.40
8:L6:129:GLU:HG2	8:L6:130:ILE:H	1.86	0.40
11:L9:91:ARG:HG3	11:L9:91:ARG:NH2	2.36	0.40
13:M1:140:ARG:HD2	13:M1:140:ARG:N	2.36	0.40
15:M4:85:TRP:NE1	15:M4:90:VAL:HB	2.35	0.40
16:M5:99:ARG:HB2	16:M5:130:PHE:CE1	2.56	0.40
23:N2:39:ASP:O	23:N2:47:VAL:HB	2.21	0.40
28:N7:24:VAL:HG13	28:N7:130:PHE:CE2	2.56	0.40
31:O0:34:LEU:HD12	31:O0:39:SER:HB3	2.03	0.40
35:O4:30:LEU:HA	35:O4:30:LEU:HD23	1.84	0.40
45:2:239:C:H2'	45:2:240:U:OP1	2.21	0.40
45:2:450:U:H2'	45:2:451:A:C8	2.56	0.40
45:2:476:U:H5''	45:2:477:A:O4'	2.21	0.40
45:2:901:G:N1	45:2:902:G:O6	2.54	0.40
45:2:1363:U:H3'	45:2:1364:G:C8	2.55	0.40
45:2:1429:G:H2'	45:2:1430:U:C6	2.56	0.40
45:2:1553:G:O6	61:C5:43:ARG:HD3	2.21	0.40
46:S0:38:PHE:CD1	46:S0:39:ASN:HB2	2.57	0.40
46:S0:148:ASP:HB2	46:S0:164:ASN:CG	2.46	0.40
49:S3:21:LEU:HD22	49:S3:25:PHE:CE2	2.56	0.40
50:S4:14:ALA:HB2	50:S4:28:ALA:HB2	2.03	0.40
50:S4:21:ASP:OD2	50:S4:21:ASP:N	2.53	0.40
51:S5:142:PRO:HA	51:S5:218:GLU:OE2	2.21	0.40
61:C5:67:ALA:C	61:C5:69:GLU:H	2.29	0.40
67:D1:55:LEU:HD11	67:D1:69:LEU:HG	2.03	0.40
74:D8:8:THR:HG21	74:D8:56:LEU:HD12	2.04	0.40
78:SR:273:ASP:OD2	78:SR:275:ARG:NH2	2.54	0.40
1:5:31:C:H5'	16:m5:96:ARG:HD2	2.03	0.40
1:5:109:A:N3	1:5:110:G:H1'	2.35	0.40
1:5:122:A:O4'	1:5:123:A:C2	2.74	0.40
1:5:186:U:C2	1:5:231:G:N2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:212:G:C6	1:5:222:A:C5	3.09	0.40
1:5:288:C:H2'	1:5:289:A:C8	2.56	0.40
1:5:562:C:O3'	21:n0:71:LYS:NZ	2.52	0.40
1:5:668:G:C5	1:5:795:G:C2	3.08	0.40
1:5:708:G:N2	1:5:711:A:OP2	2.48	0.40
1:5:729:C:P	19:m8:43:PRO:HG2	2.61	0.40
1:5:766:U:H4'	1:5:767:U:O5'	2.20	0.40
1:5:781:G:OP1	19:m8:151:ARG:HD2	2.22	0.40
1:5:817:A:N3	38:o7:11:ARG:HB3	2.37	0.40
1:5:841:A:OP2	85:5:4173:LLL:H13	2.21	0.40
1:5:1129:A:N3	1:5:2826:U:O2'	2.51	0.40
1:5:1764:U:C6	1:5:1765:U:H1'	2.55	0.40
1:5:1819:U:H2'	1:5:1820:U:H5'	2.01	0.40
1:5:2167:A:O2'	1:5:2168:A:H5'	2.20	0.40
1:5:2194:G:H1'	1:5:2274:U:O2	2.21	0.40
1:5:2278:C:C2	1:5:2307:G:N2	2.90	0.40
1:5:2571:U:C4	1:5:2572:C:N4	2.89	0.40
1:5:2581:U:O2'	1:5:2582:C:H5'	2.22	0.40
1:5:2908:G:H2'	1:5:2909:U:H6	1.86	0.40
1:5:3192:U:H2'	1:5:3193:C:C6	2.56	0.40
3:8:83:C:H4'	3:8:85:G:N2	2.36	0.40
3:8:137:C:C5'	26:n5:42:ARG:HH12	2.34	0.40
5:13:41:VAL:HG12	5:13:185:GLY:O	2.21	0.40
5:13:211:GLN:NE2	5:13:283:TYR:O	2.54	0.40
16:m5:46:ASP:OD1	16:m5:50:ARG:NH2	2.55	0.40
16:m5:148:TYR:O	16:m5:151:ILE:HG22	2.21	0.40
19:m8:111:ARG:HB2	19:m8:121:CYS:SG	2.61	0.40
19:m8:116:LYS:O	19:m8:118:GLY:N	2.55	0.40
22:n1:6:GLY:O	22:n1:9:SER:HB2	2.21	0.40
81:n4:37:ALA:O	81:n4:41:LYS:HG3	2.20	0.40
37:o6:55:ARG:O	37:o6:58:ILE:HG12	2.21	0.40
82:p0:37:GLN:HG3	82:p0:104:ARG:HH11	1.85	0.40
45:6:93:A:H4'	45:6:94:U:OP2	2.21	0.40
45:6:831:U:O2'	45:6:832:U:O5'	2.29	0.40
45:6:892:A:H2'	45:6:893:U:C6	2.56	0.40
45:6:964:U:O4'	45:6:965:U:C2	2.74	0.40
45:6:1231:U:O5'	45:6:1259:U:H1'	2.21	0.40
45:6:1248:C:OP2	77:e1:95:HIS:ND1	2.53	0.40
45:6:1608:U:H2'	45:6:1609:U:C6	2.57	0.40
45:6:1667:A:H2'	45:6:1668:G:O4'	2.21	0.40
46:s0:73:VAL:HG13	46:s0:120:LEU:HD23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:s1:58:SER:HA	47:s1:61:LEU:HB2	2.03	0.40
47:s1:141:ALA:HA	47:s1:209:ASN:O	2.19	0.40
48:s2:161:LYS:HG3	48:s2:166:THR:HG22	2.02	0.40
51:s5:177:ILE:O	51:s5:181:GLU:HB2	2.20	0.40
52:s6:164:LYS:HD2	52:s6:167:LYS:HG3	2.03	0.40
53:s7:28:GLU:HG2	53:s7:38:LEU:HD12	2.03	0.40
53:s7:132:PRO:O	53:s7:133:THR:OG1	2.39	0.40
55:s9:49:LEU:O	55:s9:53:ARG:HG3	2.22	0.40
72:d6:87:ARG:NH2	72:d6:94:ASN:H	2.19	0.40
78:sR:205:SER:CB	78:sR:210:LEU:HB2	2.51	0.40
79:sM:64:LYS:C	79:sM:66:ALA:H	2.29	0.40
1:1:13:A:H8	1:1:13:A:C5'	2.35	0.40
1:1:139:G:H2'	1:1:140:C:O4'	2.22	0.40
1:1:348:A:N3	1:1:352:A:O2'	2.54	0.40
1:1:1359:C:H2'	1:1:1360:C:C6	2.57	0.40
1:1:1389:G:O2'	1:1:1418:A:N1	2.44	0.40
1:1:1449:A:H2'	1:1:1450:G:O4'	2.22	0.40
1:1:1472:U:H5'	20:M9:4:LEU:HB2	2.04	0.40
1:1:1483:G:O6	35:O4:4:ARG:NH2	2.54	0.40
1:1:1593:A:OP1	35:O4:60:ARG:NH1	2.44	0.40
1:1:1633:C:C5	28:N7:17:ARG:NH2	2.90	0.40
1:1:1815:U:H1'	1:1:1816:A:O5'	2.22	0.40
1:1:1869:C:H4'	1:1:3077:A:O2'	2.21	0.40
1:1:2189:U:H2'	1:1:2190:U:H5'	2.02	0.40
1:1:2874:G:C6	1:1:2945:G:C8	3.09	0.40
1:1:2912:G:O4'	1:1:3131:U:H5'	2.21	0.40
1:1:3169:U:H2'	1:1:3170:A:O4'	2.21	0.40
5:L3:139:GLN:H	5:L3:139:GLN:HG3	1.64	0.40
7:L5:226:TYR:HB3	7:L5:231:ILE:O	2.21	0.40
8:L6:37:GLY:O	8:L6:90:LYS:HA	2.21	0.40
8:L6:55:LEU:HD12	8:L6:64:LEU:HD12	2.02	0.40
12:M0:201:SER:OG	12:M0:203:LYS:O	2.23	0.40
13:M1:171:VAL:HG13	13:M1:172:LEU:H	1.86	0.40
15:M4:94:TRP:CE2	15:M4:100:ALA:HB2	2.56	0.40
16:M5:159:ARG:H	16:M5:159:ARG:HG2	1.75	0.40
18:M7:88:VAL:O	18:M7:92:GLN:HG2	2.21	0.40
19:M8:86:THR:HA	19:M8:105:ARG:O	2.22	0.40
20:M9:68:GLN:O	20:M9:71:ARG:HG2	2.20	0.40
20:M9:176:ARG:HG3	45:2:853:G:OP1	2.21	0.40
20:M9:178:ALA:O	20:M9:181:ARG:NH1	2.54	0.40
22:N1:124:VAL:O	22:N1:125:ALA:HB3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:N8:3:SER:O	29:N8:6:THR:HG22	2.21	0.40
37:O6:33:ALA:HB1	37:O6:38:LYS:HE3	2.04	0.40
42:Q1:12:ARG:HG2	87:Q1:201:HOH:O	2.20	0.40
45:2:153:G:O2'	52:S6:108:VAL:HG21	2.21	0.40
45:2:610:G:H2'	45:2:610:G:N3	2.35	0.40
45:2:865:A:C6	45:2:866:G:C5	3.10	0.40
45:2:928:U:H4'	60:C4:124:ASP:OD1	2.22	0.40
45:2:1089:U:H2'	45:2:1090:C:C6	2.57	0.40
45:2:1167:G:N2	62:C6:139:GLN:OE1	2.49	0.40
45:2:1325:A:H2'	45:2:1326:A:H8	1.85	0.40
45:2:1389:C:O2	45:2:1390:U:H4'	2.21	0.40
47:S1:48:VAL:HG12	47:S1:49:ASN:N	2.36	0.40
47:S1:96:LEU:HD22	47:S1:96:LEU:O	2.22	0.40
48:S2:177:GLY:HA2	48:S2:194:GLU:O	2.21	0.40
51:S5:76:ARG:HD3	51:S5:76:ARG:HA	1.78	0.40
52:S6:10:ASN:O	52:S6:129:VAL:HG22	2.20	0.40
52:S6:58:LYS:HG3	52:S6:105:ASP:O	2.21	0.40
53:S7:62:VAL:HG12	53:S7:64:VAL:H	1.86	0.40
64:C8:108:LYS:HD2	64:C8:108:LYS:HA	1.69	0.40
70:D4:112:LYS:O	70:D4:116:LYS:HG3	2.22	0.40
78:SR:21:THR:HA	78:SR:290:VAL:HG23	2.03	0.40
78:SR:84:SER:OG	78:SR:85:TRP:N	2.53	0.40
1:5:16:A:P	26:n5:42:ARG:HG2	2.62	0.40
1:5:157:A:C8	37:o6:26:ILE:HG12	2.57	0.40
1:5:321:C:H5''	16:m5:150:TRP:CE3	2.55	0.40
1:5:609:G:C6	6:l4:308:LYS:HD3	2.56	0.40
1:5:957:C:H2'	1:5:958:C:O4'	2.22	0.40
1:5:958:C:OP1	1:5:2799:A:H3'	2.20	0.40
1:5:1084:A:H8	1:5:1084:A:OP2	2.04	0.40
1:5:1104:G:O5'	1:5:1104:G:C8	2.74	0.40
1:5:1601:U:P	20:m9:42:ARG:HH22	2.44	0.40
1:5:1617:G:H2'	1:5:1618:G:O4'	2.22	0.40
1:5:1675:G:H2'	1:5:1676:A:H8	1.86	0.40
1:5:1759:C:N4	1:5:1760:A:H62	2.20	0.40
1:5:2100:A:H5''	1:5:2100:A:N3	2.36	0.40
1:5:2423:U:H2'	1:5:2424:A:C8	2.56	0.40
1:5:2582:C:H2'	1:5:2583:C:C6	2.56	0.40
1:5:3332:U:C5	1:5:3333:G:C6	3.09	0.40
3:8:38:U:C4	36:o5:81:ARG:HD3	2.56	0.40
3:8:87:G:O2'	3:8:88:A:OP2	2.31	0.40
5:l3:56:ILE:HG22	5:l3:74:GLU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:l3:166:ILE:HD11	5:l3:173:GLN:HB3	2.03	0.40
6:l4:187:LEU:HD23	6:l4:198:ARG:O	2.21	0.40
8:l6:38:THR:HA	8:l6:90:LYS:HB2	2.02	0.40
8:l6:166:LYS:N	8:l6:169:ASP:OD2	2.53	0.40
9:l7:45:LEU:HD22	9:l7:45:LEU:HA	1.79	0.40
12:m0:75:TYR:CZ	12:m0:79:VAL:HG21	2.57	0.40
12:m0:140:THR:OG1	12:m0:141:LYS:N	2.53	0.40
14:m3:57:VAL:HG12	14:m3:112:ASN:OD1	2.20	0.40
15:m4:77:ARG:O	15:m4:81:VAL:HG23	2.21	0.40
19:m8:80:THR:HG23	19:m8:137:THR:HG22	2.04	0.40
21:n0:107:TYR:CZ	21:n0:118:PHE:CE1	3.10	0.40
24:n3:11:PHE:HB2	24:n3:88:ARG:HH12	1.85	0.40
24:n3:109:MET:HE2	24:n3:109:MET:HB3	1.61	0.40
81:n4:85:ALA:HB2	52:s6:158:ILE:HG23	2.02	0.40
32:o1:29:ALA:HB2	32:o1:64:VAL:HA	2.03	0.40
33:o2:105:ARG:NH1	33:o2:125:ARG:HD3	2.36	0.40
82:p0:25:LEU:HG	82:p0:191:TYR:CD2	2.56	0.40
82:p0:48:ARG:HE	82:p0:90:ASN:C	2.29	0.40
45:6:20:G:H5'	45:6:571:G:C8	2.57	0.40
45:6:327:U:O2'	57:c1:10:GLU:HG2	2.21	0.40
45:6:452:A:H3'	45:6:453:U:C6	2.56	0.40
45:6:558:U:O4	79:sM:108:GLN:HG3	2.21	0.40
45:6:635:A:C8	45:6:863:A:N6	2.89	0.40
45:6:875:G:H4'	45:6:936:G:O2'	2.21	0.40
45:6:1028:C:C4	45:6:1030:A:H1'	2.57	0.40
45:6:1202:A:H1'	45:6:1207:C:N4	2.36	0.40
45:6:1212:G:C2	45:6:1213:G:C8	3.10	0.40
45:6:1425:A:O5'	45:6:1425:A:H8	2.05	0.40
46:s0:26:ALA:O	46:s0:46:HIS:HB2	2.21	0.40
47:s1:52:THR:HG23	47:s1:53:GLY:O	2.21	0.40
48:s2:73:LEU:O	48:s2:76:LEU:HD22	2.21	0.40
48:s2:137:ILE:HG13	48:s2:138:PRO:HD2	2.03	0.40
48:s2:188:LEU:HD13	48:s2:196:VAL:HG11	2.03	0.40
51:s5:116:HIS:O	51:s5:120:ILE:HG13	2.21	0.40
51:s5:130:ILE:HD13	51:s5:130:ILE:HG21	1.84	0.40
51:s5:217:LEU:O	51:s5:220:VAL:HG12	2.21	0.40
58:c2:48:SER:O	58:c2:52:LEU:N	2.43	0.40
60:c4:42:VAL:HG23	60:c4:46:MET:SD	2.61	0.40
63:c7:32:LYS:HG3	63:c7:47:ARG:CD	2.51	0.40
64:c8:53:ASP:O	64:c8:56:LYS:HB2	2.21	0.40
66:d0:12:GLN:OE1	66:d0:12:GLN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:d2:53:ILE:CD1	73:d7:24:LEU:HD11	2.52	0.40
70:d4:8:ARG:CZ	70:d4:28:LEU:HD11	2.51	0.40
72:d6:87:ARG:NH2	72:d6:91:ASP:O	2.34	0.40
78:sR:165:ASP:O	78:sR:166:SER:HB3	2.22	0.40
78:sR:315:VAL:O	78:sR:316:MET:HG3	2.21	0.40
1:1:379:C:H2'	1:1:380:U:C6	2.56	0.40
1:1:690:A:H5'	1:1:692:A:N6	2.37	0.40
1:1:817:A:H2'	1:1:920:A:C2	2.56	0.40
1:1:1718:G:C2	1:1:1727:G:N1	2.90	0.40
1:1:2586:G:N7	10:L8:241:LYS:HB2	2.37	0.40
1:1:2778:G:H2'	1:1:2778:G:N3	2.36	0.40
1:1:2854:U:O3'	12:M0:160:PRO:HB3	2.21	0.40
1:1:3101:G:N2	1:1:3102:G:H1'	2.36	0.40
1:1:3173:G:C2	34:O3:96:ALA:HB2	2.56	0.40
1:1:3306:U:H2'	1:1:3307:A:H5''	2.02	0.40
5:L3:293:ASN:HB2	5:L3:304:THR:HA	2.03	0.40
6:L4:6:VAL:HG21	6:L4:255:PHE:CZ	2.56	0.40
6:L4:145:ILE:HB	6:L4:146:PRO:HD2	2.03	0.40
10:L8:78:PHE:C	10:L8:80:TYR:N	2.79	0.40
11:L9:67:ALA:HA	11:L9:70:THR:CG2	2.52	0.40
11:L9:101:VAL:HG12	11:L9:136:PHE:CE1	2.50	0.40
15:M4:68:LEU:HD11	15:M4:94:TRP:HA	2.03	0.40
18:M7:78:VAL:HG12	18:M7:79:THR:N	2.36	0.40
27:N6:71:SER:HB3	27:N6:83:ASP:CB	2.52	0.40
31:O0:40:LYS:HD3	31:O0:93:LEU:O	2.22	0.40
35:O4:20:ILE:HD13	35:O4:34:HIS:HA	2.04	0.40
45:2:331:A:P	54:S8:56:ARG:HH21	2.43	0.40
45:2:574:G:O6	69:D3:65:ASN:ND2	2.52	0.40
45:2:869:A:H2'	45:2:870:C:O4'	2.21	0.40
45:2:1142:A:H2'	45:2:1143:A:H8	1.86	0.40
45:2:1319:A:H2'	45:2:1320:U:O4'	2.20	0.40
45:2:1326:A:O3'	49:S3:156:PHE:HE1	2.05	0.40
45:2:1357:A:N6	45:2:1358:G:O6	2.55	0.40
46:S0:107:PHE:HB2	46:S0:135:GLU:HB3	2.02	0.40
48:S2:175:GLY:C	55:S9:53:ARG:HH12	2.28	0.40
49:S3:34:TYR:CE2	49:S3:37:VAL:HG13	2.57	0.40
52:S6:78:THR:HG22	52:S6:79:LYS:H	1.86	0.40
53:S7:104:ARG:H	53:S7:104:ARG:HG2	1.71	0.40
55:S9:171:ARG:HH12	55:S9:174:ARG:HG2	1.86	0.40
61:C5:40:ARG:HD3	61:C5:115:TYR:OH	2.22	0.40
62:C6:53:LEU:H	62:C6:53:LEU:HG	1.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:C9:45:MET:HE3	65:C9:46:PRO:HD2	2.02	0.40
68:D2:75:ILE:HG13	68:D2:125:ILE:HD13	2.03	0.40
69:D3:3:LYS:O	69:D3:5:LYS:N	2.55	0.40
74:D8:42:ARG:HE	74:D8:42:ARG:HB3	1.77	0.40
78:SR:114:ASP:HB3	78:SR:156:VAL:HG23	2.03	0.40
78:SR:317:THR:HG22	78:SR:318:ALA:H	1.87	0.40
1:5:33:G:N1	1:5:50:U:OP2	2.47	0.40
1:5:93:C:OP2	1:5:2764:C:O2'	2.32	0.40
1:5:189:G:O3'	1:5:190:U:H4'	2.22	0.40
1:5:353:G:O2'	1:5:354:U:OP2	2.37	0.40
1:5:541:U:H2'	1:5:542:G:H8	1.85	0.40
1:5:592:A:H2'	1:5:593:C:H6	1.87	0.40
1:5:1069:C:H42	1:5:1089:G:H1	1.68	0.40
1:5:1088:U:H2'	1:5:1089:G:C8	2.55	0.40
1:5:1276:U:H2'	1:5:1277:C:C6	2.57	0.40
1:5:1688:U:H2'	1:5:1689:U:C6	2.56	0.40
1:5:2117:A:H3'	1:5:2118:C:C6	2.56	0.40
1:5:2194:G:C6	1:5:2195:C:N4	2.89	0.40
1:5:2586:G:N7	10:l8:241:LYS:HB2	2.37	0.40
1:5:2694:A:C6	1:5:2695:A:C6	3.09	0.40
1:5:2748:A:C2	7:l5:35:ARG:HB3	2.57	0.40
1:5:2781:U:O2'	14:m3:185:LYS:HD2	2.20	0.40
1:5:2846:U:O4'	1:5:2849:C:N4	2.55	0.40
1:5:3354:U:H4'	1:5:3355:U:O5'	2.22	0.40
2:7:2:G:N7	85:7:233:LLL:H931	2.37	0.40
3:8:9:A:H2'	3:8:10:A:H8	1.85	0.40
3:8:73:U:P	27:n6:75:ARG:HD2	2.62	0.40
85:8:222:LLL:H611	85:8:222:LLL:H11	1.84	0.40
4:l2:238:ILE:HD12	4:l2:238:ILE:HG23	1.75	0.40
5:l3:53:MET:HE1	5:l3:327:CYS:CB	2.50	0.40
6:l4:346:LYS:HE3	6:l4:347:THR:O	2.22	0.40
8:l6:89:THR:HG21	15:m4:115:PHE:CB	2.50	0.40
10:l8:149:LYS:O	10:l8:176:PRO:HG2	2.22	0.40
11:l9:13:PRO:HG2	11:l9:16:VAL:HG21	2.03	0.40
16:m5:116:LEU:HB2	16:m5:135:VAL:HG23	2.04	0.40
20:m9:168:ALA:O	20:m9:172:ARG:HB2	2.21	0.40
22:n1:14:MET:HG2	22:n1:15:PHE:CD2	2.56	0.40
24:n3:33:ASN:HB2	24:n3:64:LYS:H	1.86	0.40
26:n5:82:LEU:HD21	26:n5:135:ILE:HG23	2.03	0.40
26:n5:110:VAL:HG13	26:n5:124:VAL:HG22	2.03	0.40
34:o3:102:LEU:HA	34:o3:102:LEU:HD23	1.76	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:o4:85:VAL:O	35:o4:88:ARG:N	2.55	0.40
43:q2:8:ARG:HH22	43:q2:70:LEU:HD12	1.87	0.40
43:q2:71:ARG:HH12	43:q2:80:ARG:HD2	1.86	0.40
45:6:1:U:H5''	45:6:2:A:OP1	2.20	0.40
45:6:319:U:O2	45:6:319:U:O4'	2.39	0.40
45:6:556:A:HO2'	45:6:589:C:HO2'	1.65	0.40
45:6:582:U:H5'	45:6:582:U:H6	1.86	0.40
45:6:938:G:N2	45:6:942:G:C4	2.89	0.40
45:6:1477:G:H2'	45:6:1478:G:C8	2.57	0.40
46:s0:179:ARG:HD2	46:s0:180:GLU:OE1	2.21	0.40
48:s2:72:LEU:HD12	48:s2:72:LEU:HA	1.88	0.40
49:s3:211:PRO:HG3	63:c7:20:TYR:CZ	2.57	0.40
50:s4:157:ASN:OD1	50:s4:222:LEU:HD11	2.22	0.40
52:s6:31:ARG:CZ	52:s6:31:ARG:HB3	2.51	0.40
53:s7:48:GLU:HG2	53:s7:58:LEU:HD21	2.02	0.40
53:s7:82:GLU:OE2	53:s7:165:LYS:NZ	2.38	0.40
53:s7:102:PRO:HD3	53:s7:112:ARG:CD	2.50	0.40
54:s8:102:VAL:H	54:s8:102:VAL:HG13	1.71	0.40
67:d1:30:ALA:O	67:d1:60:ARG:HD3	2.22	0.40
68:d2:125:ILE:HG12	68:d2:126:LEU:H	1.87	0.40
69:d3:33:LEU:HA	69:d3:33:LEU:HD23	1.65	0.40
69:d3:52:ILE:HG23	69:d3:99:ASN:HA	2.03	0.40
74:d8:33:LEU:HD22	74:d8:33:LEU:HA	1.93	0.40
78:sR:19:TRP:CD2	78:sR:306:THR:HG22	2.57	0.40
79:sM:126:ASP:O	79:sM:130:GLU:N	2.34	0.40
1:1:170:G:OP1	36:O5:109:ILE:HG23	2.21	0.40
1:1:713:U:H2'	1:1:714:G:O4'	2.21	0.40
1:1:1313:G:H2'	1:1:1314:C:H6	1.87	0.40
1:1:1638:A:OP2	28:N7:16:GLY:HA2	2.22	0.40
1:1:1759:C:H3'	1:1:1760:A:H5''	2.03	0.40
1:1:1821:U:O2	35:O4:67:LYS:HB2	2.22	0.40
1:1:2144:A:C4	1:1:2281:A:C6	3.10	0.40
1:1:2189:U:C2'	1:1:2190:U:H5'	2.51	0.40
1:1:2514:U:OP2	1:1:2586:G:N1	2.54	0.40
1:1:2525:G:H4'	10:L8:49:TYR:OH	2.21	0.40
1:1:2563:G:O2'	10:L8:29:SER:HB2	2.21	0.40
1:1:2961:G:H2'	1:1:2962:U:C6	2.57	0.40
1:1:2997:G:H1'	1:1:3395:G:O3'	2.21	0.40
2:3:79:A:C2	2:3:102:A:C4	3.10	0.40
5:L3:230:THR:HB	5:L3:247:ARG:HG2	2.03	0.40
6:L4:39:PHE:CG	6:L4:242:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:L4:155:ASP:OD1	6:L4:155:ASP:N	2.54	0.40
6:L4:265:GLU:OE2	6:L4:266:THR:HG23	2.22	0.40
8:L6:68:PRO:HB2	8:L6:71:VAL:HG23	2.04	0.40
9:L7:156:ILE:O	9:L7:159:GLN:HB2	2.22	0.40
10:L8:186:LEU:HA	10:L8:186:LEU:HD23	1.87	0.40
16:M5:180:PHE:O	16:M5:181:ASN:C	2.64	0.40
17:M6:188:SER:OG	17:M6:189:ASP:N	2.53	0.40
18:M7:4:TYR:OH	18:M7:18:ARG:HG3	2.22	0.40
19:M8:57:ILE:HD13	19:M8:57:ILE:HG21	1.76	0.40
24:N3:86:ARG:HG2	24:N3:87:ARG:N	2.37	0.40
25:N4:13:ILE:HG12	25:N4:32:GLN:HA	2.03	0.40
29:N8:67:HIS:HB2	29:N8:68:PHE:CD2	2.56	0.40
29:N8:96:LYS:O	29:N8:98:THR:N	2.46	0.40
32:O1:31:ARG:O	32:O1:35:GLU:HB2	2.21	0.40
45:2:231:U:H2'	45:2:233:C:C5	2.56	0.40
45:2:412:A:H2	45:2:421:A:N1	2.19	0.40
45:2:542:A:H8	45:2:543:C:H2'	1.82	0.40
45:2:698:U:OP1	45:2:698:U:H6	2.04	0.40
45:2:760:A:N6	45:2:761:G:C2	2.89	0.40
45:2:868:G:OP1	59:C3:121:ARG:NH1	2.54	0.40
45:2:978:A:H2'	45:2:979:A:O4'	2.21	0.40
45:2:1085:G:H2'	45:2:1087:A:OP2	2.21	0.40
45:2:1315:U:H2'	45:2:1316:G:O4'	2.22	0.40
45:2:1584:G:N2	45:2:1611:A:OP2	2.41	0.40
46:S0:175:TYR:HE1	46:S0:197:ILE:HG22	1.85	0.40
48:S2:69:ILE:HD11	48:S2:133:LYS:HB3	2.04	0.40
48:S2:98:PHE:CD1	48:S2:121:VAL:HG22	2.56	0.40
49:S3:136:VAL:N	49:S3:152:PHE:O	2.36	0.40
49:S3:168:ILE:HA	49:S3:188:ILE:O	2.21	0.40
51:S5:220:VAL:HA	51:S5:223:SER:HB3	2.04	0.40
52:S6:5:ILE:HD12	52:S6:16:PHE:CD2	2.56	0.40
54:S8:66:SER:HA	54:S8:73:SER:HA	2.03	0.40
62:C6:106:LYS:HE2	62:C6:106:LYS:HB3	1.90	0.40
64:C8:89:GLN:C	64:C8:91:ASP:H	2.29	0.40
66:D0:95:ALA:HB1	66:D0:99:ILE:CG2	2.50	0.40
68:D2:94:LEU:HA	68:D2:95:PRO:HD3	1.97	0.40
70:D4:51:GLU:HG3	70:D4:52:LYS:N	2.36	0.40
70:D4:56:SER:N	70:D4:74:LEU:O	2.39	0.40
71:D5:41:ILE:HG13	71:D5:42:LEU:H	1.87	0.40
71:D5:70:LYS:HB3	71:D5:71:ILE:HD12	2.03	0.40
78:SR:135:THR:HG23	78:SR:139:GLN:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:SM:118:SER:HB2	79:SM:122:GLU:OE2	2.22	0.40
1:5:75:G:OP1	14:m3:58:VAL:HG22	2.22	0.40
1:5:109:A:H4'	1:5:110:G:OP1	2.22	0.40
1:5:728:G:C6	1:5:729:C:C4	3.09	0.40
1:5:796:U:H2'	1:5:797:U:C6	2.54	0.40
1:5:856:G:C6	1:5:857:G:N1	2.90	0.40
1:5:915:A:H2'	1:5:915:A:N3	2.37	0.40
1:5:1440:G:H2'	1:5:1441:G:O4'	2.21	0.40
1:5:1618:G:H4'	3:8:129:C:C1'	2.51	0.40
1:5:1799:A:O5'	1:5:1799:A:H8	2.05	0.40
1:5:2627:C:O2	1:5:2797:C:H4'	2.21	0.40
1:5:3037:U:H2'	1:5:3038:U:H6	1.87	0.40
2:7:64:A:C5'	2:7:65:G:H5''	2.52	0.40
2:7:70:U:H2'	2:7:71:G:H8	1.86	0.40
9:17:31:ALA:HA	9:17:34:LYS:HB2	2.02	0.40
9:17:153:PHE:CD1	9:17:160:ARG:HG2	2.57	0.40
9:17:156:ILE:O	9:17:159:GLN:N	2.55	0.40
11:19:90:MET:HB2	11:19:144:ILE:CG2	2.49	0.40
12:m0:176:LEU:HD13	12:m0:181:TYR:HB2	2.03	0.40
14:m3:152:THR:O	14:m3:153:ASP:HB2	2.21	0.40
19:m8:44:PHE:CD1	19:m8:139:ILE:HD11	2.56	0.40
24:n3:34:LEU:HD23	24:n3:34:LEU:HA	1.92	0.40
29:n8:70:LYS:HD3	29:n8:111:LYS:HD2	2.03	0.40
32:o1:44:MET:HE2	32:o1:46:THR:HG21	2.04	0.40
45:6:105:A:H2'	45:6:106:U:O4'	2.22	0.40
45:6:143:G:H5''	45:6:144:U:OP2	2.21	0.40
45:6:271:A:H1'	45:6:285:G:N2	2.37	0.40
45:6:281:G:H2'	45:6:282:C:H6	1.86	0.40
47:s1:56:SER:HB3	47:s1:59:ASP:OD2	2.21	0.40
48:s2:170:ILE:HD13	48:s2:170:ILE:HA	1.87	0.40
49:s3:145:ALA:HB3	79:sM:101:ASP:CG	2.47	0.40
51:s5:117:THR:CG2	51:s5:194:LEU:HB3	2.49	0.40
51:s5:200:ASN:C	51:s5:205:SER:HB3	2.46	0.40
52:s6:61:PHE:CD2	52:s6:72:ARG:HD3	2.57	0.40
61:c5:112:LEU:HD23	61:c5:112:LEU:HA	1.88	0.40
62:c6:22:VAL:HA	62:c6:64:ASP:O	2.22	0.40
64:c8:18:LEU:C	64:c8:20:THR:H	2.30	0.40
66:d0:72:ASN:ND2	66:d0:74:GLU:H	2.20	0.40
78:sR:42:LEU:O	78:sR:61:PHE:HD2	2.03	0.40
79:sM:30:THR:O	79:sM:30:THR:OG1	2.39	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-

metry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:2:1491:U:O2'	66:d0:12:GLN:OE1[1_454]	2.11	0.09

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	L2	250/252 (99%)	233 (93%)	17 (7%)	0	100	100
4	l2	250/252 (99%)	227 (91%)	21 (8%)	2 (1%)	16	44
5	L3	384/386 (100%)	349 (91%)	32 (8%)	3 (1%)	16	44
5	l3	384/386 (100%)	354 (92%)	29 (8%)	1 (0%)	36	65
6	L4	359/361 (99%)	323 (90%)	34 (10%)	2 (1%)	21	50
6	l4	359/361 (99%)	313 (87%)	43 (12%)	3 (1%)	16	44
7	L5	294/296 (99%)	266 (90%)	28 (10%)	0	100	100
7	l5	292/296 (99%)	266 (91%)	24 (8%)	2 (1%)	18	47
8	L6	152/176 (86%)	141 (93%)	10 (7%)	1 (1%)	18	47
8	l6	153/176 (87%)	139 (91%)	12 (8%)	2 (1%)	9	33
9	L7	220/223 (99%)	204 (93%)	16 (7%)	0	100	100
9	l7	221/223 (99%)	206 (93%)	13 (6%)	2 (1%)	14	42
10	L8	231/233 (99%)	199 (86%)	30 (13%)	2 (1%)	14	42
10	l8	229/233 (98%)	194 (85%)	33 (14%)	2 (1%)	14	42
11	L9	189/191 (99%)	169 (89%)	20 (11%)	0	100	100
11	l9	189/191 (99%)	176 (93%)	11 (6%)	2 (1%)	11	38
12	M0	208/221 (94%)	188 (90%)	19 (9%)	1 (0%)	24	54
12	m0	207/221 (94%)	184 (89%)	23 (11%)	0	100	100
13	M1	167/169 (99%)	142 (85%)	25 (15%)	0	100	100
13	m1	167/169 (99%)	146 (87%)	19 (11%)	2 (1%)	10	35

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	M3	191/194 (98%)	170 (89%)	19 (10%)	2 (1%)	12	40
14	m3	192/194 (99%)	164 (85%)	26 (14%)	2 (1%)	12	40
15	M4	134/137 (98%)	120 (90%)	14 (10%)	0	100	100
15	m4	135/137 (98%)	126 (93%)	9 (7%)	0	100	100
16	M5	201/203 (99%)	186 (92%)	15 (8%)	0	100	100
16	m5	201/203 (99%)	186 (92%)	15 (8%)	0	100	100
17	M6	195/197 (99%)	187 (96%)	7 (4%)	1 (0%)	24	54
17	m6	195/197 (99%)	190 (97%)	5 (3%)	0	100	100
18	M7	181/184 (98%)	169 (93%)	12 (7%)	0	100	100
18	m7	153/184 (83%)	140 (92%)	13 (8%)	0	100	100
19	M8	183/185 (99%)	174 (95%)	9 (5%)	0	100	100
19	m8	183/185 (99%)	167 (91%)	14 (8%)	2 (1%)	11	38
20	M9	180/188 (96%)	169 (94%)	11 (6%)	0	100	100
20	m9	186/188 (99%)	171 (92%)	15 (8%)	0	100	100
21	N0	170/172 (99%)	157 (92%)	13 (8%)	0	100	100
21	n0	170/172 (99%)	161 (95%)	9 (5%)	0	100	100
22	N1	157/159 (99%)	148 (94%)	6 (4%)	3 (2%)	6	26
22	n1	157/159 (99%)	150 (96%)	7 (4%)	0	100	100
23	N2	98/100 (98%)	89 (91%)	8 (8%)	1 (1%)	12	40
23	n2	96/100 (96%)	84 (88%)	12 (12%)	0	100	100
24	N3	134/136 (98%)	130 (97%)	4 (3%)	0	100	100
24	n3	134/136 (98%)	130 (97%)	4 (3%)	0	100	100
25	N4	96/155 (62%)	83 (86%)	12 (12%)	1 (1%)	12	40
26	N5	119/121 (98%)	107 (90%)	12 (10%)	0	100	100
26	n5	118/121 (98%)	108 (92%)	10 (8%)	0	100	100
27	N6	124/126 (98%)	119 (96%)	5 (4%)	0	100	100
27	n6	124/126 (98%)	117 (94%)	5 (4%)	2 (2%)	7	29
28	N7	133/135 (98%)	114 (86%)	19 (14%)	0	100	100
28	n7	133/135 (98%)	116 (87%)	16 (12%)	1 (1%)	16	44
29	N8	146/148 (99%)	126 (86%)	19 (13%)	1 (1%)	18	47
29	n8	146/148 (99%)	132 (90%)	13 (9%)	1 (1%)	18	47

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	N9	56/58 (97%)	51 (91%)	4 (7%)	1 (2%)	6	26
30	n9	56/58 (97%)	49 (88%)	5 (9%)	2 (4%)	2	16
31	O0	95/100 (95%)	89 (94%)	5 (5%)	1 (1%)	11	38
31	o0	98/100 (98%)	89 (91%)	9 (9%)	0	100	100
32	O1	107/109 (98%)	94 (88%)	13 (12%)	0	100	100
32	o1	107/109 (98%)	96 (90%)	10 (9%)	1 (1%)	14	42
33	O2	125/127 (98%)	117 (94%)	8 (6%)	0	100	100
33	o2	125/127 (98%)	111 (89%)	14 (11%)	0	100	100
34	O3	104/106 (98%)	97 (93%)	7 (7%)	0	100	100
34	o3	104/106 (98%)	99 (95%)	5 (5%)	0	100	100
35	O4	110/112 (98%)	100 (91%)	10 (9%)	0	100	100
35	o4	110/112 (98%)	99 (90%)	10 (9%)	1 (1%)	14	42
36	O5	117/119 (98%)	104 (89%)	13 (11%)	0	100	100
36	o5	117/119 (98%)	105 (90%)	12 (10%)	0	100	100
37	O6	97/99 (98%)	80 (82%)	15 (16%)	2 (2%)	5	24
37	o6	97/99 (98%)	86 (89%)	11 (11%)	0	100	100
38	O7	85/87 (98%)	77 (91%)	8 (9%)	0	100	100
38	o7	85/87 (98%)	77 (91%)	8 (9%)	0	100	100
39	O8	75/77 (97%)	69 (92%)	6 (8%)	0	100	100
39	o8	75/77 (97%)	71 (95%)	4 (5%)	0	100	100
40	O9	48/50 (96%)	43 (90%)	5 (10%)	0	100	100
40	o9	48/50 (96%)	46 (96%)	2 (4%)	0	100	100
41	Q0	50/52 (96%)	46 (92%)	4 (8%)	0	100	100
41	q0	50/52 (96%)	48 (96%)	1 (2%)	1 (2%)	6	25
42	Q1	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
42	q1	23/25 (92%)	20 (87%)	3 (13%)	0	100	100
43	Q2	103/105 (98%)	91 (88%)	12 (12%)	0	100	100
43	q2	103/105 (98%)	94 (91%)	8 (8%)	1 (1%)	12	40
44	Q3	89/91 (98%)	77 (86%)	12 (14%)	0	100	100
44	q3	89/91 (98%)	81 (91%)	8 (9%)	0	100	100
46	S0	204/206 (99%)	176 (86%)	27 (13%)	1 (0%)	24	54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	s0	204/206 (99%)	170 (83%)	30 (15%)	4 (2%)	6	25
47	S1	212/216 (98%)	175 (82%)	35 (16%)	2 (1%)	14	42
47	s1	214/216 (99%)	188 (88%)	25 (12%)	1 (0%)	24	54
48	S2	215/217 (99%)	189 (88%)	25 (12%)	1 (0%)	24	54
48	s2	215/217 (99%)	196 (91%)	18 (8%)	1 (0%)	24	54
49	S3	221/223 (99%)	201 (91%)	19 (9%)	1 (0%)	24	54
49	s3	221/223 (99%)	194 (88%)	25 (11%)	2 (1%)	14	42
50	S4	258/260 (99%)	230 (89%)	27 (10%)	1 (0%)	30	59
50	s4	258/260 (99%)	225 (87%)	32 (12%)	1 (0%)	30	59
51	S5	204/206 (99%)	175 (86%)	26 (13%)	3 (2%)	8	30
51	s5	204/206 (99%)	182 (89%)	21 (10%)	1 (0%)	24	54
52	S6	224/236 (95%)	207 (92%)	17 (8%)	0	100	100
52	s6	216/236 (92%)	198 (92%)	16 (7%)	2 (1%)	14	42
53	S7	182/186 (98%)	156 (86%)	22 (12%)	4 (2%)	5	24
53	s7	184/186 (99%)	159 (86%)	23 (12%)	2 (1%)	11	38
54	S8	184/200 (92%)	158 (86%)	24 (13%)	2 (1%)	11	38
54	s8	182/200 (91%)	164 (90%)	16 (9%)	2 (1%)	11	38
55	S9	183/185 (99%)	153 (84%)	28 (15%)	2 (1%)	11	38
55	s9	183/185 (99%)	158 (86%)	23 (13%)	2 (1%)	11	38
56	C0	94/105 (90%)	73 (78%)	17 (18%)	4 (4%)	2	13
56	c0	92/105 (88%)	74 (80%)	13 (14%)	5 (5%)	1	10
57	C1	153/156 (98%)	138 (90%)	14 (9%)	1 (1%)	18	47
57	c1	140/156 (90%)	124 (89%)	15 (11%)	1 (1%)	18	47
58	C2	122/143 (85%)	91 (75%)	26 (21%)	5 (4%)	2	15
58	c2	122/143 (85%)	88 (72%)	32 (26%)	2 (2%)	7	29
59	C3	148/150 (99%)	136 (92%)	12 (8%)	0	100	100
59	c3	148/150 (99%)	129 (87%)	15 (10%)	4 (3%)	4	20
60	C4	125/128 (98%)	109 (87%)	14 (11%)	2 (2%)	7	29
60	c4	126/128 (98%)	107 (85%)	18 (14%)	1 (1%)	16	44
61	C5	122/141 (86%)	104 (85%)	15 (12%)	3 (2%)	4	21
61	c5	133/141 (94%)	109 (82%)	23 (17%)	1 (1%)	16	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
62	C6	139/142 (98%)	123 (88%)	15 (11%)	1 (1%)	18	47
62	c6	140/142 (99%)	124 (89%)	14 (10%)	2 (1%)	9	31
63	C7	118/136 (87%)	100 (85%)	15 (13%)	3 (2%)	4	21
63	c7	113/136 (83%)	97 (86%)	12 (11%)	4 (4%)	3	16
64	C8	143/145 (99%)	120 (84%)	21 (15%)	2 (1%)	9	31
64	c8	143/145 (99%)	125 (87%)	15 (10%)	3 (2%)	5	24
65	C9	141/143 (99%)	127 (90%)	14 (10%)	0	100	100
65	c9	141/143 (99%)	132 (94%)	9 (6%)	0	100	100
66	D0	105/110 (96%)	96 (91%)	8 (8%)	1 (1%)	12	40
66	d0	108/110 (98%)	87 (81%)	17 (16%)	4 (4%)	2	16
67	D1	85/87 (98%)	73 (86%)	11 (13%)	1 (1%)	10	35
67	d1	85/87 (98%)	72 (85%)	12 (14%)	1 (1%)	10	35
68	D2	127/129 (98%)	114 (90%)	11 (9%)	2 (2%)	7	29
68	d2	127/129 (98%)	113 (89%)	13 (10%)	1 (1%)	16	44
69	D3	142/144 (99%)	119 (84%)	23 (16%)	0	100	100
69	d3	142/144 (99%)	128 (90%)	14 (10%)	0	100	100
70	D4	132/134 (98%)	121 (92%)	11 (8%)	0	100	100
70	d4	131/134 (98%)	110 (84%)	18 (14%)	3 (2%)	5	23
71	D5	68/70 (97%)	53 (78%)	12 (18%)	3 (4%)	2	13
71	d5	67/70 (96%)	61 (91%)	6 (9%)	0	100	100
72	D6	95/97 (98%)	75 (79%)	17 (18%)	3 (3%)	3	17
72	d6	95/97 (98%)	77 (81%)	17 (18%)	1 (1%)	11	38
73	D7	79/81 (98%)	71 (90%)	8 (10%)	0	100	100
73	d7	79/81 (98%)	71 (90%)	6 (8%)	2 (2%)	4	21
74	D8	61/63 (97%)	51 (84%)	10 (16%)	0	100	100
74	d8	61/63 (97%)	51 (84%)	9 (15%)	1 (2%)	7	29
75	D9	51/53 (96%)	44 (86%)	5 (10%)	2 (4%)	2	15
75	d9	51/53 (96%)	46 (90%)	5 (10%)	0	100	100
76	E0	58/62 (94%)	46 (79%)	10 (17%)	2 (3%)	3	17
76	e0	60/62 (97%)	47 (78%)	13 (22%)	0	100	100
77	E1	69/72 (96%)	53 (77%)	15 (22%)	1 (1%)	9	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
77	e1	70/72 (97%)	44 (63%)	22 (31%)	4 (6%)	1	9
78	SR	316/318 (99%)	283 (90%)	33 (10%)	0	100	100
78	sR	316/318 (99%)	293 (93%)	21 (7%)	2 (1%)	21	50
79	SM	155/272 (57%)	127 (82%)	26 (17%)	2 (1%)	9	33
79	sM	123/272 (45%)	105 (85%)	15 (12%)	3 (2%)	4	22
81	n4	133/135 (98%)	116 (87%)	14 (10%)	3 (2%)	5	23
82	p0	139/312 (45%)	124 (89%)	13 (9%)	2 (1%)	9	31
All	All	22342/23454 (95%)	19892 (89%)	2273 (10%)	177 (1%)	16	44

All (177) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
6	L4	339	LEU
8	L6	98	VAL
25	N4	63	ILE
51	S5	64	VAL
56	C0	88	PRO
57	C1	7	VAL
72	D6	75	VAL
72	D6	84	VAL
76	E0	47	VAL
77	E1	98	VAL
79	SM	167	PRO
79	SM	172	VAL
8	l6	98	VAL
10	l8	203	VAL
13	m1	8	PRO
81	n4	67	VAL
30	n9	21	ILE
46	s0	189	VAL
54	s8	101	ILE
56	c0	88	PRO
56	c0	97	PRO
63	c7	88	VAL
64	c8	92	ILE
73	d7	62	ILE
79	sM	84	LYS
79	sM	167	PRO
10	L8	36	ILE
17	M6	90	HIS

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Mol	Chain	Res	Type
23	N2	11	ILE
29	N8	48	TYR
47	S1	62	LYS
54	S8	148	ALA
55	S9	134	ILE
56	C0	87	VAL
58	C2	22	VAL
58	C2	91	VAL
58	C2	106	ILE
62	C6	39	VAL
63	C7	83	GLN
68	D2	83	ILE
71	D5	69	LEU
75	D9	7	TRP
81	n4	76	VAL
82	p0	33	VAL
49	s3	91	VAL
53	s7	74	GLN
55	s9	91	LYS
56	c0	35	ILE
56	c0	92	ILE
58	c2	91	VAL
59	c3	66	ILE
63	c7	99	VAL
63	c7	105	GLN
66	d0	15	GLN
68	d2	6	VAL
74	d8	61	ARG
77	e1	98	VAL
22	N1	18	ASP
63	C7	84	TYR
64	C8	91	ASP
76	E0	60	PRO
81	n4	25	ASP
32	o1	7	VAL
35	o4	83	ASN
51	s5	43	PHE
52	s6	70	PRO
55	s9	134	ILE
56	c0	24	LYS
59	c3	133	ALA
62	c6	42	GLU

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Mol	Chain	Res	Type
66	d0	16	GLN
66	d0	52	LYS
67	d1	6	GLY
72	d6	46	GLU
73	d7	59	CYS
77	e1	137	ASP
78	sR	166	SER
10	L8	157	VAL
14	M3	47	ALA
31	O0	100	ILE
37	O6	97	SER
46	S0	188	LEU
49	S3	217	ILE
54	S8	152	ILE
55	S9	135	ALA
56	C0	61	TRP
60	C4	40	ALA
61	C5	28	MET
61	C5	29	SER
61	C5	53	PRO
67	D1	82	VAL
71	D5	88	ILE
5	l3	129	ALA
7	l5	269	SER
9	l7	191	VAL
9	l7	229	PHE
19	m8	99	THR
27	n6	126	LEU
28	n7	5	LEU
49	s3	115	ILE
57	c1	7	VAL
62	c6	41	PRO
66	d0	97	VAL
77	e1	92	LYS
78	sR	165	ASP
5	L3	347	SER
14	M3	76	THR
48	S2	144	TRP
51	S5	58	LEU
53	S7	111	LYS
56	C0	60	SER
58	C2	89	ILE

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Mol	Chain	Res	Type
6	l4	329	PRO
11	l9	144	ILE
14	m3	47	ALA
27	n6	125	LYS
29	n8	78	LEU
30	n9	18	ARG
53	s7	64	VAL
61	c5	10	ARG
64	c8	5	VAL
64	c8	61	LEU
70	d4	33	ALA
70	d4	53	ASP
79	sM	43	ASP
5	L3	187	SER
6	L4	24	ALA
12	M0	207	GLU
22	N1	125	ALA
47	S1	210	ILE
58	C2	66	VAL
63	C7	86	PRO
68	D2	31	SER
4	l2	238	ILE
6	l4	142	VAL
7	l5	178	ASN
13	m1	114	ILE
19	m8	112	ALA
82	p0	13	ALA
43	q2	78	LYS
46	s0	95	ALA
46	s0	190	ASP
47	s1	177	GLN
52	s6	69	LEU
59	c3	87	ASP
60	c4	132	ARG
22	N1	124	VAL
50	S4	195	ILE
51	S5	51	VAL
60	C4	42	VAL
75	D9	6	VAL
4	l2	56	ALA
8	l6	130	ILE
10	l8	237	ILE

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Mol	Chain	Res	Type
46	s0	158	VAL
54	s8	78	ILE
37	O6	3	VAL
64	C8	14	ILE
66	D0	117	VAL
72	D6	36	ILE
58	c2	115	VAL
5	L3	317	ILE
30	N9	21	ILE
53	S7	64	VAL
53	S7	98	ILE
71	D5	71	ILE
41	q0	78	ILE
53	S7	31	SER
6	l4	145	ILE
11	l9	167	VAL
14	m3	93	ILE
48	s2	238	SER
50	s4	90	ILE
59	c3	22	ALA
63	c7	86	PRO
77	e1	102	VAL
70	d4	30	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	L2	193/194 (100%)	168 (87%)	25 (13%)	4	16
4	l2	192/194 (99%)	168 (88%)	24 (12%)	4	18
5	L3	322/322 (100%)	270 (84%)	52 (16%)	2	10
5	l3	322/322 (100%)	263 (82%)	59 (18%)	2	7
6	L4	288/288 (100%)	248 (86%)	40 (14%)	3	14
6	l4	288/288 (100%)	249 (86%)	39 (14%)	4	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	L5	244/244 (100%)	212 (87%)	32 (13%)	4	16
7	l5	243/244 (100%)	200 (82%)	43 (18%)	2	8
8	L6	134/153 (88%)	114 (85%)	20 (15%)	3	12
8	l6	135/153 (88%)	109 (81%)	26 (19%)	1	5
9	L7	186/187 (100%)	167 (90%)	19 (10%)	7	25
9	l7	187/187 (100%)	163 (87%)	24 (13%)	4	17
10	L8	191/191 (100%)	168 (88%)	23 (12%)	5	19
10	l8	177/191 (93%)	159 (90%)	18 (10%)	7	25
11	L9	171/171 (100%)	133 (78%)	38 (22%)	1	3
11	l9	171/171 (100%)	147 (86%)	24 (14%)	3	13
12	M0	176/187 (94%)	150 (85%)	26 (15%)	3	12
12	m0	180/187 (96%)	143 (79%)	37 (21%)	1	4
13	M1	147/147 (100%)	128 (87%)	19 (13%)	4	16
13	m1	147/147 (100%)	124 (84%)	23 (16%)	2	10
14	M3	154/154 (100%)	123 (80%)	31 (20%)	1	4
14	m3	154/154 (100%)	132 (86%)	22 (14%)	3	13
15	M4	107/108 (99%)	90 (84%)	17 (16%)	2	10
15	m4	108/108 (100%)	95 (88%)	13 (12%)	5	19
16	M5	175/175 (100%)	153 (87%)	22 (13%)	4	18
16	m5	175/175 (100%)	151 (86%)	24 (14%)	3	14
17	M6	160/160 (100%)	138 (86%)	22 (14%)	3	14
17	m6	160/160 (100%)	134 (84%)	26 (16%)	2	10
18	M7	138/146 (94%)	108 (78%)	30 (22%)	1	3
18	m7	125/146 (86%)	97 (78%)	28 (22%)	1	3
19	M8	150/150 (100%)	131 (87%)	19 (13%)	4	17
19	m8	150/150 (100%)	129 (86%)	21 (14%)	3	13
20	M9	148/153 (97%)	125 (84%)	23 (16%)	2	10
20	m9	153/153 (100%)	131 (86%)	22 (14%)	3	13
21	N0	156/156 (100%)	123 (79%)	33 (21%)	1	3
21	n0	156/156 (100%)	129 (83%)	27 (17%)	2	8
22	N1	136/136 (100%)	113 (83%)	23 (17%)	2	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
22	n1	136/136 (100%)	113 (83%)	23 (17%)	2	9
23	N2	87/87 (100%)	83 (95%)	4 (5%)	24	50
23	n2	85/87 (98%)	75 (88%)	10 (12%)	5	20
24	N3	104/104 (100%)	90 (86%)	14 (14%)	4	15
24	n3	104/104 (100%)	89 (86%)	15 (14%)	3	13
25	N4	57/129 (44%)	50 (88%)	7 (12%)	4	18
26	N5	104/105 (99%)	89 (86%)	15 (14%)	3	13
26	n5	104/105 (99%)	91 (88%)	13 (12%)	4	18
27	N6	109/109 (100%)	95 (87%)	14 (13%)	4	17
27	n6	109/109 (100%)	88 (81%)	21 (19%)	1	5
28	N7	115/115 (100%)	101 (88%)	14 (12%)	5	19
28	n7	115/115 (100%)	103 (90%)	12 (10%)	7	24
29	N8	118/118 (100%)	99 (84%)	19 (16%)	2	10
29	n8	118/118 (100%)	98 (83%)	20 (17%)	2	9
30	N9	46/46 (100%)	36 (78%)	10 (22%)	1	3
30	n9	46/46 (100%)	39 (85%)	7 (15%)	3	10
31	O0	81/84 (96%)	75 (93%)	6 (7%)	13	38
31	o0	84/84 (100%)	74 (88%)	10 (12%)	5	19
32	O1	96/96 (100%)	82 (85%)	14 (15%)	3	12
32	o1	96/96 (100%)	80 (83%)	16 (17%)	2	9
33	O2	109/109 (100%)	93 (85%)	16 (15%)	3	12
33	o2	109/109 (100%)	89 (82%)	20 (18%)	2	7
34	O3	90/90 (100%)	83 (92%)	7 (8%)	11	37
34	o3	90/90 (100%)	79 (88%)	11 (12%)	5	19
35	O4	95/95 (100%)	82 (86%)	13 (14%)	3	14
35	o4	95/95 (100%)	85 (90%)	10 (10%)	6	23
36	O5	104/104 (100%)	90 (86%)	14 (14%)	4	15
36	o5	104/104 (100%)	89 (86%)	15 (14%)	3	13
37	O6	81/81 (100%)	70 (86%)	11 (14%)	3	15
37	o6	81/81 (100%)	68 (84%)	13 (16%)	2	10
38	O7	70/70 (100%)	60 (86%)	10 (14%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	o7	70/70 (100%)	59 (84%)	11 (16%)	2	10
39	O8	68/68 (100%)	61 (90%)	7 (10%)	7	24
39	o8	68/68 (100%)	62 (91%)	6 (9%)	9	31
40	O9	45/45 (100%)	38 (84%)	7 (16%)	2	10
40	o9	45/45 (100%)	33 (73%)	12 (27%)	0	1
41	Q0	47/47 (100%)	39 (83%)	8 (17%)	2	9
41	q0	47/47 (100%)	39 (83%)	8 (17%)	2	9
42	Q1	23/23 (100%)	17 (74%)	6 (26%)	0	1
42	q1	23/23 (100%)	18 (78%)	5 (22%)	1	3
43	Q2	90/90 (100%)	79 (88%)	11 (12%)	5	19
43	q2	90/90 (100%)	69 (77%)	21 (23%)	1	2
44	Q3	71/71 (100%)	61 (86%)	10 (14%)	3	13
44	q3	71/71 (100%)	60 (84%)	11 (16%)	2	10
46	S0	173/173 (100%)	153 (88%)	20 (12%)	5	20
46	s0	173/173 (100%)	150 (87%)	23 (13%)	4	15
47	S1	191/192 (100%)	161 (84%)	30 (16%)	2	10
47	s1	192/192 (100%)	171 (89%)	21 (11%)	6	22
48	S2	176/176 (100%)	157 (89%)	19 (11%)	6	22
48	s2	176/176 (100%)	147 (84%)	29 (16%)	2	10
49	S3	182/182 (100%)	168 (92%)	14 (8%)	12	37
49	s3	181/182 (100%)	154 (85%)	27 (15%)	3	12
50	S4	221/221 (100%)	195 (88%)	26 (12%)	5	20
50	s4	221/221 (100%)	185 (84%)	36 (16%)	2	10
51	S5	173/173 (100%)	157 (91%)	16 (9%)	8	29
51	s5	173/173 (100%)	141 (82%)	32 (18%)	1	7
52	S6	191/201 (95%)	170 (89%)	21 (11%)	6	22
52	s6	187/201 (93%)	167 (89%)	20 (11%)	6	23
53	S7	165/166 (99%)	146 (88%)	19 (12%)	5	20
53	s7	165/166 (99%)	144 (87%)	21 (13%)	4	17
54	S8	150/161 (93%)	134 (89%)	16 (11%)	6	23
54	s8	148/161 (92%)	129 (87%)	19 (13%)	4	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	S9	158/158 (100%)	139 (88%)	19 (12%)	5	19
55	s9	158/158 (100%)	138 (87%)	20 (13%)	4	17
56	C0	77/98 (79%)	66 (86%)	11 (14%)	3	13
56	c0	73/98 (74%)	62 (85%)	11 (15%)	3	11
57	C1	129/137 (94%)	115 (89%)	14 (11%)	6	22
57	c1	125/137 (91%)	109 (87%)	16 (13%)	4	17
58	C2	88/119 (74%)	75 (85%)	13 (15%)	3	12
58	c2	88/119 (74%)	75 (85%)	13 (15%)	3	12
59	C3	127/127 (100%)	119 (94%)	8 (6%)	16	42
59	c3	127/127 (100%)	114 (90%)	13 (10%)	7	25
60	C4	81/97 (84%)	65 (80%)	16 (20%)	1	5
60	c4	97/97 (100%)	84 (87%)	13 (13%)	4	15
61	C5	101/117 (86%)	88 (87%)	13 (13%)	4	16
61	c5	103/117 (88%)	91 (88%)	12 (12%)	5	20
62	C6	117/118 (99%)	107 (92%)	10 (8%)	10	33
62	c6	118/118 (100%)	101 (86%)	17 (14%)	3	13
63	C7	109/124 (88%)	91 (84%)	18 (16%)	2	10
63	c7	97/124 (78%)	83 (86%)	14 (14%)	3	13
64	C8	128/128 (100%)	112 (88%)	16 (12%)	4	18
64	c8	128/128 (100%)	103 (80%)	25 (20%)	1	5
65	C9	115/115 (100%)	106 (92%)	9 (8%)	11	37
65	c9	115/115 (100%)	95 (83%)	20 (17%)	2	8
66	D0	100/103 (97%)	85 (85%)	15 (15%)	3	11
66	d0	103/103 (100%)	87 (84%)	16 (16%)	2	10
67	D1	74/74 (100%)	64 (86%)	10 (14%)	4	15
67	d1	74/74 (100%)	65 (88%)	9 (12%)	5	19
68	D2	110/110 (100%)	99 (90%)	11 (10%)	7	26
68	d2	110/110 (100%)	97 (88%)	13 (12%)	5	20
69	D3	119/119 (100%)	104 (87%)	15 (13%)	4	18
69	d3	119/119 (100%)	108 (91%)	11 (9%)	8	29
70	D4	112/112 (100%)	102 (91%)	10 (9%)	9	31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
70	d4	111/112 (99%)	98 (88%)	13 (12%)	5	20
71	D5	61/61 (100%)	52 (85%)	9 (15%)	3	12
71	d5	61/61 (100%)	53 (87%)	8 (13%)	4	16
72	D6	83/83 (100%)	74 (89%)	9 (11%)	6	22
72	d6	83/83 (100%)	73 (88%)	10 (12%)	5	19
73	D7	70/70 (100%)	61 (87%)	9 (13%)	4	16
73	d7	70/70 (100%)	62 (89%)	8 (11%)	5	21
74	D8	56/56 (100%)	50 (89%)	6 (11%)	6	23
74	d8	56/56 (100%)	43 (77%)	13 (23%)	1	2
75	D9	47/47 (100%)	44 (94%)	3 (6%)	16	42
75	d9	47/47 (100%)	39 (83%)	8 (17%)	2	9
76	E0	51/53 (96%)	49 (96%)	2 (4%)	28	53
76	e0	53/53 (100%)	42 (79%)	11 (21%)	1	4
77	E1	62/63 (98%)	58 (94%)	4 (6%)	15	42
77	e1	63/63 (100%)	49 (78%)	14 (22%)	1	3
78	SR	260/260 (100%)	236 (91%)	24 (9%)	8	29
78	sR	260/260 (100%)	236 (91%)	24 (9%)	8	29
79	SM	97/227 (43%)	81 (84%)	16 (16%)	2	10
79	sM	88/227 (39%)	75 (85%)	13 (15%)	3	12
81	n4	101/114 (89%)	92 (91%)	9 (9%)	9	31
82	p0	105/254 (41%)	92 (88%)	13 (12%)	4	18
All	All	18802/19697 (96%)	16195 (86%)	2607 (14%)	3	14

All (2607) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	L2	32	LEU
4	L2	44	ILE
4	L2	45	VAL
4	L2	74	GLU
4	L2	86	GLN
4	L2	88	ILE
4	L2	101	VAL
4	L2	104	LEU
4	L2	116	VAL

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Mol	Chain	Res	Type
4	L2	132	ASN
4	L2	134	VAL
4	L2	142	ASP
4	L2	148	VAL
4	L2	165	VAL
4	L2	179	LEU
4	L2	180	LEU
4	L2	204	MET
4	L2	217	GLN
4	L2	223	SER
4	L2	225	ILE
4	L2	226	SER
4	L2	227	ARG
4	L2	230	VAL
4	L2	237	LEU
4	L2	238	ILE
5	L3	10	ARG
5	L3	17	LEU
5	L3	25	ILE
5	L3	30	LYS
5	L3	37	ARG
5	L3	41	VAL
5	L3	44	THR
5	L3	54	THR
5	L3	55	THR
5	L3	56	ILE
5	L3	65	SER
5	L3	70	ARG
5	L3	73	VAL
5	L3	85	VAL
5	L3	93	VAL
5	L3	99	LEU
5	L3	103	THR
5	L3	110	LEU
5	L3	114	VAL
5	L3	117	ARG
5	L3	139	GLN
5	L3	140	ASP
5	L3	148	LEU
5	L3	150	ARG
5	L3	156	SER
5	L3	160	VAL

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Mol	Chain	Res	Type
5	L3	166	ILE
5	L3	169	THR
5	L3	183	LEU
5	L3	188	ILE
5	L3	192	VAL
5	L3	197	GLU
5	L3	202	THR
5	L3	205	VAL
5	L3	206	ASP
5	L3	211	GLN
5	L3	230	THR
5	L3	232	ARG
5	L3	235	THR
5	L3	238	LEU
5	L3	252	ILE
5	L3	260	VAL
5	L3	274	SER
5	L3	287	LYS
5	L3	305	ILE
5	L3	317	ILE
5	L3	319	ASN
5	L3	320	ASP
5	L3	328	ILE
5	L3	335	ILE
5	L3	338	LEU
5	L3	347	SER
6	L4	6	VAL
6	L4	7	THR
6	L4	22	LEU
6	L4	27	SER
6	L4	42	VAL
6	L4	47	ARG
6	L4	54	GLU
6	L4	55	LYS
6	L4	74	ILE
6	L4	92	ASN
6	L4	93	MET
6	L4	99	MET
6	L4	105	THR
6	L4	138	ARG
6	L4	148	ILE
6	L4	150	LEU

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Mol	Chain	Res	Type
6	L4	156	LEU
6	L4	158	SER
6	L4	176	SER
6	L4	178	LEU
6	L4	180	LYS
6	L4	182	LEU
6	L4	185	LYS
6	L4	187	LEU
6	L4	193	LYS
6	L4	200	THR
6	L4	206	LEU
6	L4	230	VAL
6	L4	265	GLU
6	L4	269	SER
6	L4	272	VAL
6	L4	280	ILE
6	L4	287	THR
6	L4	290	ILE
6	L4	307	GLN
6	L4	313	LEU
6	L4	327	LEU
6	L4	337	GLU
6	L4	349	THR
6	L4	358	THR
7	L5	35	ARG
7	L5	36	LEU
7	L5	37	VAL
7	L5	41	LYS
7	L5	45	ASN
7	L5	66	SER
7	L5	70	THR
7	L5	75	LEU
7	L5	105	ILE
7	L5	107	ARG
7	L5	124	GLU
7	L5	132	THR
7	L5	135	VAL
7	L5	137	ASP
7	L5	146	LEU
7	L5	151	GLN
7	L5	152	ARG
7	L5	154	THR

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Mol	Chain	Res	Type
7	L5	155	THR
7	L5	163	LEU
7	L5	178	ASN
7	L5	194	LEU
7	L5	211	LEU
7	L5	215	ASP
7	L5	216	GLU
7	L5	217	GLU
7	L5	222	LEU
7	L5	231	ILE
7	L5	236	LEU
7	L5	258	LYS
7	L5	259	LYS
7	L5	273	ARG
8	L6	8	LYS
8	L6	21	THR
8	L6	31	ARG
8	L6	38	THR
8	L6	46	ARG
8	L6	50	LYS
8	L6	52	VAL
8	L6	64	LEU
8	L6	78	ARG
8	L6	79	VAL
8	L6	84	VAL
8	L6	87	THR
8	L6	89	THR
8	L6	99	GLU
8	L6	102	ASN
8	L6	131	LYS
8	L6	152	THR
8	L6	155	LEU
8	L6	156	LYS
8	L6	160	SER
9	L7	24	GLU
9	L7	39	GLU
9	L7	60	ARG
9	L7	83	LEU
9	L7	87	VAL
9	L7	88	ARG
9	L7	89	ILE
9	L7	92	ILE

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Mol	Chain	Res	Type
9	L7	93	ASN
9	L7	110	ARG
9	L7	111	ILE
9	L7	120	THR
9	L7	124	LEU
9	L7	175	LYS
9	L7	179	LEU
9	L7	184	LEU
9	L7	211	SER
9	L7	216	VAL
9	L7	239	LEU
10	L8	26	LEU
10	L8	27	THR
10	L8	41	GLN
10	L8	63	LYS
10	L8	74	THR
10	L8	79	GLN
10	L8	84	ARG
10	L8	95	ASN
10	L8	118	GLU
10	L8	136	LEU
10	L8	150	LEU
10	L8	153	ILE
10	L8	164	VAL
10	L8	169	LEU
10	L8	185	ARG
10	L8	190	VAL
10	L8	203	VAL
10	L8	214	LEU
10	L8	218	ILE
10	L8	221	ASN
10	L8	238	LEU
10	L8	240	ASN
10	L8	246	MET
11	L9	6	THR
11	L9	7	GLU
11	L9	19	SER
11	L9	21	LYS
11	L9	28	VAL
11	L9	33	THR
11	L9	41	ILE
11	L9	44	THR

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Mol	Chain	Res	Type
11	L9	46	THR
11	L9	48	VAL
11	L9	49	ASN
11	L9	50	ASN
11	L9	51	GLN
11	L9	53	ILE
11	L9	57	VAL
11	L9	68	LEU
11	L9	69	ARG
11	L9	70	THR
11	L9	79	ILE
11	L9	82	VAL
11	L9	83	THR
11	L9	90	MET
11	L9	92	TYR
11	L9	93	VAL
11	L9	102	ASN
11	L9	107	ASP
11	L9	110	LYS
11	L9	125	ASN
11	L9	126	VAL
11	L9	133	THR
11	L9	135	GLU
11	L9	139	ASN
11	L9	149	ASN
11	L9	151	VAL
11	L9	161	LEU
11	L9	166	ARG
11	L9	170	LYS
11	L9	188	THR
12	M0	3	ARG
12	M0	7	ARG
12	M0	20	SER
12	M0	21	ARG
12	M0	22	TYR
12	M0	26	VAL
12	M0	31	ILE
12	M0	32	ARG
12	M0	33	ILE
12	M0	42	THR
12	M0	48	LEU
12	M0	52	LEU

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Mol	Chain	Res	Type
12	M0	53	VAL
12	M0	63	GLU
12	M0	71	CYS
12	M0	82	ARG
12	M0	87	LEU
12	M0	101	LYS
12	M0	130	ASP
12	M0	138	VAL
12	M0	139	ARG
12	M0	140	THR
12	M0	143	SER
12	M0	148	VAL
12	M0	149	VAL
12	M0	163	GLN
13	M1	6	GLN
13	M1	9	MET
13	M1	13	LYS
13	M1	22	SER
13	M1	23	VAL
13	M1	40	LEU
13	M1	46	VAL
13	M1	80	LEU
13	M1	85	LYS
13	M1	92	ARG
13	M1	101	ASN
13	M1	107	ASP
13	M1	111	ASP
13	M1	112	LEU
13	M1	139	THR
13	M1	154	THR
13	M1	155	THR
13	M1	173	ASP
13	M1	174	LYS
14	M3	4	SER
14	M3	5	LYS
14	M3	9	ILE
14	M3	17	HIS
14	M3	23	LYS
14	M3	24	VAL
14	M3	53	LEU
14	M3	54	LEU
14	M3	55	ARG

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Mol	Chain	Res	Type
14	M3	58	VAL
14	M3	59	ARG
14	M3	69	VAL
14	M3	76	THR
14	M3	80	VAL
14	M3	81	LYS
14	M3	85	LEU
14	M3	86	THR
14	M3	107	GLU
14	M3	108	ILE
14	M3	114	GLN
14	M3	115	ARG
14	M3	131	LYS
14	M3	136	GLU
14	M3	138	VAL
14	M3	139	LEU
14	M3	164	GLU
14	M3	165	SER
14	M3	168	ARG
14	M3	174	ARG
14	M3	182	ILE
14	M3	190	LYS
15	M4	7	VAL
15	M4	21	VAL
15	M4	27	GLN
15	M4	38	ILE
15	M4	41	GLN
15	M4	50	LYS
15	M4	53	VAL
15	M4	58	ILE
15	M4	63	VAL
15	M4	72	LEU
15	M4	82	SER
15	M4	102	LYS
15	M4	106	ARG
15	M4	126	GLN
15	M4	133	LYS
15	M4	135	LEU
15	M4	137	LYS
16	M5	18	VAL
16	M5	22	LEU
16	M5	50	ARG

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Mol	Chain	Res	Type
16	M5	68	ARG
16	M5	75	VAL
16	M5	80	THR
16	M5	85	THR
16	M5	90	ASN
16	M5	92	LEU
16	M5	93	LYS
16	M5	96	ARG
16	M5	105	ARG
16	M5	117	ASN
16	M5	133	ILE
16	M5	138	GLN
16	M5	151	ILE
16	M5	152	CYS
16	M5	155	VAL
16	M5	175	ASN
16	M5	183	THR
16	M5	190	THR
16	M5	194	GLN
17	M6	22	VAL
17	M6	41	LEU
17	M6	58	LEU
17	M6	74	ARG
17	M6	85	ARG
17	M6	106	GLU
17	M6	118	VAL
17	M6	119	VAL
17	M6	124	LEU
17	M6	126	VAL
17	M6	128	ARG
17	M6	129	LEU
17	M6	134	LYS
17	M6	137	THR
17	M6	143	THR
17	M6	159	LYS
17	M6	160	ARG
17	M6	162	VAL
17	M6	166	GLU
17	M6	180	SER
17	M6	184	THR
17	M6	188	SER
18	M7	3	ARG

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Mol	Chain	Res	Type
18	M7	9	THR
18	M7	14	SER
18	M7	23	ARG
18	M7	24	VAL
18	M7	32	THR
18	M7	36	ILE
18	M7	41	LEU
18	M7	51	VAL
18	M7	52	LEU
18	M7	56	ARG
18	M7	65	SER
18	M7	69	ARG
18	M7	75	GLU
18	M7	107	LEU
18	M7	112	LEU
18	M7	114	VAL
18	M7	115	SER
18	M7	116	HIS
18	M7	121	GLN
18	M7	125	GLN
18	M7	127	ARG
18	M7	129	THR
18	M7	135	ARG
18	M7	142	SER
18	M7	144	SER
18	M7	149	VAL
18	M7	169	THR
18	M7	175	ARG
18	M7	182	ILE
19	M8	3	ILE
19	M8	26	LEU
19	M8	32	LEU
19	M8	41	ASP
19	M8	49	LEU
19	M8	81	VAL
19	M8	86	THR
19	M8	93	ILE
19	M8	99	THR
19	M8	111	ARG
19	M8	113	LYS
19	M8	115	VAL
19	M8	127	LEU

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Mol	Chain	Res	Type
19	M8	135	GLN
19	M8	139	ILE
19	M8	141	ARG
19	M8	146	SER
19	M8	168	THR
19	M8	185	LYS
20	M9	10	LEU
20	M9	17	VAL
20	M9	21	LYS
20	M9	22	VAL
20	M9	24	LEU
20	M9	27	ASN
20	M9	30	SER
20	M9	37	SER
20	M9	42	ARG
20	M9	51	VAL
20	M9	57	VAL
20	M9	74	ARG
20	M9	84	THR
20	M9	91	SER
20	M9	99	LEU
20	M9	115	ILE
20	M9	125	LYS
20	M9	126	GLU
20	M9	130	ASN
20	M9	134	HIS
20	M9	138	LEU
20	M9	180	LYS
20	M9	181	ARG
21	N0	1	MET
21	N0	13	ARG
21	N0	16	THR
21	N0	17	GLU
21	N0	34	GLU
21	N0	45	LEU
21	N0	50	LYS
21	N0	51	VAL
21	N0	71	LYS
21	N0	77	VAL
21	N0	79	VAL
21	N0	80	ARG
21	N0	81	TYR

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Mol	Chain	Res	Type
21	N0	87	THR
21	N0	88	HIS
21	N0	97	VAL
21	N0	100	VAL
21	N0	105	THR
21	N0	106	LEU
21	N0	109	ASP
21	N0	113	ARG
21	N0	115	ARG
21	N0	117	ARG
21	N0	123	ILE
21	N0	128	GLU
21	N0	131	LYS
21	N0	134	ASP
21	N0	136	LYS
21	N0	137	ARG
21	N0	145	THR
21	N0	156	VAL
21	N0	159	SER
21	N0	172	TYR
22	N1	12	ARG
22	N1	25	VAL
22	N1	32	LYS
22	N1	64	VAL
22	N1	76	ILE
22	N1	78	LYS
22	N1	79	MET
22	N1	80	VAL
22	N1	83	ARG
22	N1	86	GLU
22	N1	87	LYS
22	N1	89	LEU
22	N1	93	VAL
22	N1	102	ARG
22	N1	106	LEU
22	N1	110	LYS
22	N1	118	GLU
22	N1	128	LEU
22	N1	139	ARG
22	N1	141	VAL
22	N1	144	GLU
22	N1	149	GLN

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Mol	Chain	Res	Type
22	N1	158	THR
23	N2	11	ILE
23	N2	39	ASP
23	N2	54	VAL
23	N2	100	THR
24	N3	7	GLN
24	N3	12	ARG
24	N3	13	ILE
24	N3	22	ILE
24	N3	45	ARG
24	N3	46	LEU
24	N3	74	MET
24	N3	101	VAL
24	N3	102	ILE
24	N3	104	ASN
24	N3	108	GLU
24	N3	129	VAL
24	N3	135	VAL
24	N3	136	VAL
25	N4	4	GLU
25	N4	5	ILE
25	N4	7	SER
25	N4	19	THR
25	N4	30	ARG
25	N4	39	LEU
25	N4	43	ARG
26	N5	25	LYS
26	N5	26	VAL
26	N5	27	ARG
26	N5	37	THR
26	N5	38	LEU
26	N5	74	LYS
26	N5	87	SER
26	N5	108	LEU
26	N5	109	LYS
26	N5	112	THR
26	N5	115	ARG
26	N5	125	ARG
26	N5	137	ASN
26	N5	139	ILE
26	N5	142	ILE
27	N6	3	LYS

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Mol	Chain	Res	Type
27	N6	5	SER
27	N6	10	SER
27	N6	37	LYS
27	N6	38	GLU
27	N6	39	LEU
27	N6	51	ARG
27	N6	57	LEU
27	N6	76	LEU
27	N6	80	VAL
27	N6	83	ASP
27	N6	88	GLU
27	N6	99	LEU
27	N6	115	ARG
28	N7	14	VAL
28	N7	17	ARG
28	N7	29	HIS
28	N7	33	SER
28	N7	46	ILE
28	N7	81	LEU
28	N7	83	THR
28	N7	89	VAL
28	N7	92	PHE
28	N7	105	SER
28	N7	109	GLU
28	N7	120	GLU
28	N7	127	ASN
28	N7	134	LEU
29	N8	6	THR
29	N8	8	THR
29	N8	12	ARG
29	N8	14	HIS
29	N8	16	SER
29	N8	19	LYS
29	N8	22	ILE
29	N8	29	PRO
29	N8	39	HIS
29	N8	42	ARG
29	N8	43	ILE
29	N8	74	ASN
29	N8	85	ASP
29	N8	91	LEU
29	N8	93	SER

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Mol	Chain	Res	Type
29	N8	97	GLU
29	N8	115	LYS
29	N8	133	LEU
29	N8	139	ARG
30	N9	4	SER
30	N9	5	LYS
30	N9	13	THR
30	N9	14	ARG
30	N9	23	LYS
30	N9	36	ASP
30	N9	38	LYS
30	N9	42	ASN
30	N9	50	THR
30	N9	59	LYS
31	O0	10	ILE
31	O0	18	ILE
31	O0	41	LEU
31	O0	61	MET
31	O0	103	THR
31	O0	104	LEU
32	O1	13	THR
32	O1	16	LEU
32	O1	31	ARG
32	O1	36	ILE
32	O1	55	LEU
32	O1	64	VAL
32	O1	67	VAL
32	O1	75	ILE
32	O1	76	SER
32	O1	82	GLU
32	O1	84	ASP
32	O1	96	VAL
32	O1	106	THR
32	O1	109	VAL
33	O2	14	THR
33	O2	19	ARG
33	O2	33	ARG
33	O2	41	VAL
33	O2	44	ARG
33	O2	54	LYS
33	O2	61	LYS
33	O2	73	THR

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Mol	Chain	Res	Type
33	O2	75	LEU
33	O2	76	VAL
33	O2	82	LEU
33	O2	84	THR
33	O2	109	LEU
33	O2	125	ARG
33	O2	126	LEU
33	O2	128	LEU
34	O3	56	SER
34	O3	67	MET
34	O3	70	LYS
34	O3	75	HIS
34	O3	81	VAL
34	O3	86	ARG
34	O3	98	VAL
35	O4	8	ARG
35	O4	17	SER
35	O4	20	ILE
35	O4	22	VAL
35	O4	44	CYS
35	O4	57	LEU
35	O4	65	VAL
35	O4	73	SER
35	O4	84	CYS
35	O4	86	LYS
35	O4	87	GLU
35	O4	95	ILE
35	O4	105	VAL
36	O5	10	ARG
36	O5	13	SER
36	O5	21	LEU
36	O5	28	LEU
36	O5	41	LEU
36	O5	44	ILE
36	O5	46	THR
36	O5	89	ARG
36	O5	90	ARG
36	O5	93	THR
36	O5	96	GLU
36	O5	102	GLU
36	O5	104	GLN
36	O5	118	ILE

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Mol	Chain	Res	Type
37	O6	9	ILE
37	O6	17	VAL
37	O6	20	MET
37	O6	43	LEU
37	O6	56	ARG
37	O6	62	ARG
37	O6	67	LYS
37	O6	75	LYS
37	O6	76	ARG
37	O6	94	ILE
37	O6	100	HIS
38	O7	10	LYS
38	O7	24	ARG
38	O7	25	ARG
38	O7	33	THR
38	O7	43	LYS
38	O7	55	ARG
38	O7	58	THR
38	O7	64	MET
38	O7	67	LEU
38	O7	80	THR
39	O8	8	ILE
39	O8	13	GLU
39	O8	14	LEU
39	O8	24	THR
39	O8	45	VAL
39	O8	53	THR
39	O8	69	LEU
40	O9	4	GLN
40	O9	21	ARG
40	O9	23	LEU
40	O9	29	LEU
40	O9	31	THR
40	O9	47	THR
40	O9	51	ILE
41	Q0	78	ILE
41	Q0	79	GLU
41	Q0	85	LEU
41	Q0	108	THR
41	Q0	113	ARG
41	Q0	114	LYS
41	Q0	120	GLN

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Mol	Chain	Res	Type
41	Q0	127	LEU
42	Q1	1	MET
42	Q1	2	ARG
42	Q1	9	ARG
42	Q1	10	THR
42	Q1	13	LEU
42	Q1	14	LYS
43	Q2	8	ARG
43	Q2	9	LYS
43	Q2	21	THR
43	Q2	26	THR
43	Q2	35	LEU
43	Q2	71	ARG
43	Q2	83	LEU
43	Q2	84	THR
43	Q2	85	LEU
43	Q2	93	LEU
43	Q2	105	GLN
44	Q3	11	THR
44	Q3	16	VAL
44	Q3	26	VAL
44	Q3	31	ILE
44	Q3	40	SER
44	Q3	45	LYS
44	Q3	49	ARG
44	Q3	60	CYS
44	Q3	82	THR
44	Q3	90	VAL
46	S0	34	GLU
46	S0	45	VAL
46	S0	59	LEU
46	S0	62	ARG
46	S0	88	LYS
46	S0	101	ARG
46	S0	111	ILE
46	S0	139	VAL
46	S0	153	SER
46	S0	157	ASP
46	S0	172	LEU
46	S0	177	LEU
46	S0	185	ARG
46	S0	188	LEU

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Mol	Chain	Res	Type
46	S0	189	VAL
46	S0	190	ASP
46	S0	202	TYR
46	S0	203	PHE
46	S0	205	ARG
46	S0	206	ASP
47	S1	21	VAL
47	S1	25	THR
47	S1	30	PHE
47	S1	31	ASP
47	S1	36	SER
47	S1	38	PHE
47	S1	43	VAL
47	S1	46	THR
47	S1	47	LEU
47	S1	49	ASN
47	S1	56	SER
47	S1	61	LEU
47	S1	62	LYS
47	S1	84	ILE
47	S1	96	LEU
47	S1	97	LEU
47	S1	108	ASP
47	S1	126	THR
47	S1	135	LEU
47	S1	148	ASN
47	S1	177	GLN
47	S1	180	THR
47	S1	181	LEU
47	S1	183	GLN
47	S1	189	ILE
47	S1	196	GLU
47	S1	218	LEU
47	S1	220	GLN
47	S1	229	MET
47	S1	231	LEU
48	S2	53	ILE
48	S2	58	LEU
48	S2	69	ILE
48	S2	70	ASP
48	S2	72	LEU
48	S2	76	LEU

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Mol	Chain	Res	Type
48	S2	97	ARG
48	S2	111	VAL
48	S2	117	THR
48	S2	137	ILE
48	S2	139	ILE
48	S2	141	ARG
48	S2	154	LEU
48	S2	176	SER
48	S2	187	LEU
48	S2	218	ILE
48	S2	225	LEU
48	S2	226	THR
48	S2	229	LEU
49	S3	21	LEU
49	S3	38	GLU
49	S3	74	GLN
49	S3	113	LEU
49	S3	117	ARG
49	S3	122	VAL
49	S3	143	ARG
49	S3	151	LYS
49	S3	158	ILE
49	S3	164	VAL
49	S3	177	MET
49	S3	197	THR
49	S3	204	ASP
49	S3	222	VAL
50	S4	9	LEU
50	S4	38	LEU
50	S4	40	GLU
50	S4	42	LEU
50	S4	45	ILE
50	S4	57	ASN
50	S4	65	LEU
50	S4	68	ARG
50	S4	102	VAL
50	S4	104	ASP
50	S4	108	ARG
50	S4	126	VAL
50	S4	131	LEU
50	S4	148	ARG
50	S4	160	VAL

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Mol	Chain	Res	Type
50	S4	180	LEU
50	S4	181	VAL
50	S4	187	ARG
50	S4	214	LEU
50	S4	222	LEU
50	S4	227	VAL
50	S4	230	GLU
50	S4	231	GLN
50	S4	240	LYS
50	S4	248	ILE
50	S4	258	GLN
51	S5	25	LEU
51	S5	44	ASN
51	S5	80	LYS
51	S5	89	ILE
51	S5	93	LEU
51	S5	94	THR
51	S5	113	ILE
51	S5	121	ILE
51	S5	123	VAL
51	S5	130	ILE
51	S5	156	ARG
51	S5	157	ARG
51	S5	162	VAL
51	S5	186	ASN
51	S5	194	LEU
51	S5	223	SER
52	S6	10	ASN
52	S6	15	THR
52	S6	19	ASP
52	S6	41	VAL
52	S6	64	LYS
52	S6	69	LEU
52	S6	76	LEU
52	S6	78	THR
52	S6	109	LEU
52	S6	129	VAL
52	S6	133	LEU
52	S6	139	ASN
52	S6	141	ILE
52	S6	143	LYS
52	S6	155	ASP

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Mol	Chain	Res	Type
52	S6	157	VAL
52	S6	168	THR
52	S6	177	ARG
52	S6	180	THR
52	S6	211	LEU
52	S6	216	LEU
53	S7	15	GLU
53	S7	20	VAL
53	S7	29	ASN
53	S7	50	ASP
53	S7	55	LYS
53	S7	62	VAL
53	S7	70	PHE
53	S7	76	LYS
53	S7	77	LEU
53	S7	80	GLU
53	S7	91	ILE
53	S7	104	ARG
53	S7	114	ARG
53	S7	116	ARG
53	S7	126	LEU
53	S7	133	THR
53	S7	161	GLN
53	S7	163	ASP
53	S7	168	SER
54	S8	17	LYS
54	S8	36	THR
54	S8	38	ILE
54	S8	45	SER
54	S8	56	ARG
54	S8	58	LEU
54	S8	92	ARG
54	S8	95	THR
54	S8	107	THR
54	S8	138	ASN
54	S8	152	ILE
54	S8	184	LEU
54	S8	189	LEU
54	S8	193	LEU
54	S8	196	LEU
54	S8	199	LYS
55	S9	3	ARG

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Mol	Chain	Res	Type
55	S9	21	SER
55	S9	28	LEU
55	S9	33	GLU
55	S9	38	ASN
55	S9	49	LEU
55	S9	92	LYS
55	S9	93	LEU
55	S9	96	VAL
55	S9	97	LEU
55	S9	99	LEU
55	S9	103	ASP
55	S9	105	LEU
55	S9	113	VAL
55	S9	118	LEU
55	S9	134	ILE
55	S9	142	ASN
55	S9	143	ILE
55	S9	150	LEU
56	C0	11	ILE
56	C0	20	VAL
56	C0	24	LYS
56	C0	32	HIS
56	C0	37	THR
56	C0	40	LEU
56	C0	46	LEU
56	C0	55	VAL
56	C0	76	LEU
56	C0	78	GLU
56	C0	82	LEU
57	C1	5	LEU
57	C1	8	GLN
57	C1	40	LEU
57	C1	43	LYS
57	C1	44	THR
57	C1	47	THR
57	C1	55	ASP
57	C1	74	THR
57	C1	80	MET
57	C1	83	THR
57	C1	109	VAL
57	C1	111	VAL
57	C1	131	ILE

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Mol	Chain	Res	Type
57	C1	141	LYS
58	C2	37	VAL
58	C2	43	ARG
58	C2	50	LYS
58	C2	61	VAL
58	C2	71	ILE
58	C2	74	LEU
58	C2	83	GLU
58	C2	91	VAL
58	C2	103	LEU
58	C2	125	ASN
58	C2	132	GLU
58	C2	135	MET
58	C2	138	GLU
59	C3	13	SER
59	C3	27	LYS
59	C3	52	VAL
59	C3	75	LEU
59	C3	88	LEU
59	C3	99	ARG
59	C3	115	LEU
59	C3	134	VAL
60	C4	13	VAL
60	C4	25	ASP
60	C4	26	THR
60	C4	29	HIS
60	C4	39	ILE
60	C4	43	THR
60	C4	76	ILE
60	C4	79	VAL
60	C4	81	VAL
60	C4	89	THR
60	C4	91	THR
60	C4	92	LYS
60	C4	112	ILE
60	C4	115	ILE
60	C4	126	THR
60	C4	137	LEU
61	C5	22	LEU
61	C5	26	LEU
61	C5	27	GLU
61	C5	34	VAL

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Mol	Chain	Res	Type
61	C5	40	ARG
61	C5	50	THR
61	C5	60	LEU
61	C5	77	ARG
61	C5	84	ILE
61	C5	108	ARG
61	C5	110	GLU
61	C5	121	ILE
61	C5	130	ARG
62	C6	14	LYS
62	C6	34	SER
62	C6	40	GLU
62	C6	45	ARG
62	C6	46	PHE
62	C6	53	LEU
62	C6	69	VAL
62	C6	106	LYS
62	C6	109	PHE
62	C6	118	ILE
63	C7	6	THR
63	C7	19	ARG
63	C7	23	LYS
63	C7	29	GLN
63	C7	36	ASP
63	C7	38	ILE
63	C7	40	THR
63	C7	41	ILE
63	C7	43	SER
63	C7	46	LEU
63	C7	59	LYS
63	C7	69	ILE
63	C7	83	GLN
63	C7	85	VAL
63	C7	87	GLU
63	C7	99	VAL
63	C7	102	VAL
63	C7	124	VAL
64	C8	7	GLU
64	C8	22	VAL
64	C8	28	ILE
64	C8	32	LEU
64	C8	47	CYS

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Mol	Chain	Res	Type
64	C8	64	GLU
64	C8	71	GLN
64	C8	74	GLN
64	C8	80	LYS
64	C8	92	ILE
64	C8	103	ASN
64	C8	106	GLU
64	C8	111	ASP
64	C8	116	LEU
64	C8	119	ILE
64	C8	132	ARG
65	C9	6	VAL
65	C9	22	LEU
65	C9	28	LEU
65	C9	35	ASP
65	C9	36	ILE
65	C9	43	ASN
65	C9	64	HIS
65	C9	135	ILE
65	C9	144	GLU
66	D0	25	THR
66	D0	27	THR
66	D0	35	GLU
66	D0	41	ILE
66	D0	49	ASN
66	D0	51	VAL
66	D0	57	ARG
66	D0	67	THR
66	D0	70	THR
66	D0	74	GLU
66	D0	81	THR
66	D0	88	LYS
66	D0	99	ILE
66	D0	108	ILE
66	D0	118	VAL
67	D1	1	MET
67	D1	5	LYS
67	D1	7	GLN
67	D1	10	GLU
67	D1	18	SER
67	D1	31	SER
67	D1	32	VAL

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Mol	Chain	Res	Type
67	D1	33	GLN
67	D1	52	THR
67	D1	87	ARG
68	D2	22	LYS
68	D2	31	SER
68	D2	47	ILE
68	D2	53	ILE
68	D2	65	LEU
68	D2	76	SER
68	D2	86	ILE
68	D2	98	GLN
68	D2	103	ILE
68	D2	121	VAL
68	D2	126	LEU
69	D3	3	LYS
69	D3	7	ARG
69	D3	15	LEU
69	D3	17	VAL
69	D3	19	ARG
69	D3	46	SER
69	D3	57	LEU
69	D3	66	SER
69	D3	97	ASP
69	D3	107	PHE
69	D3	110	LYS
69	D3	117	ILE
69	D3	127	VAL
69	D3	133	LEU
69	D3	138	GLU
70	D4	5	VAL
70	D4	10	ARG
70	D4	13	ILE
70	D4	34	ASN
70	D4	55	VAL
70	D4	57	VAL
70	D4	61	ARG
70	D4	88	THR
70	D4	104	SER
70	D4	132	ARG
71	D5	40	VAL
71	D5	42	LEU
71	D5	48	ASP

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Mol	Chain	Res	Type
71	D5	60	VAL
71	D5	70	LYS
71	D5	71	ILE
71	D5	90	LYS
71	D5	100	ILE
71	D5	102	THR
72	D6	5	ARG
72	D6	23	CYS
72	D6	30	ILE
72	D6	44	ILE
72	D6	46	GLU
72	D6	52	ASP
72	D6	75	VAL
72	D6	83	ILE
72	D6	85	ARG
73	D7	3	LEU
73	D7	11	THR
73	D7	29	ARG
73	D7	33	LEU
73	D7	43	ILE
73	D7	54	VAL
73	D7	62	ILE
73	D7	63	LEU
73	D7	77	THR
74	D8	14	LYS
74	D8	19	THR
74	D8	48	VAL
74	D8	49	ARG
74	D8	64	ARG
74	D8	65	ARG
75	D9	5	ASN
75	D9	21	CYS
75	D9	30	LEU
76	E0	4	VAL
76	E0	39	LEU
77	E1	89	LYS
77	E1	130	VAL
77	E1	144	CYS
77	E1	150	VAL
78	SR	6	VAL
78	SR	16	HIS
78	SR	32	LEU

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Mol	Chain	Res	Type
78	SR	44	SER
78	SR	50	ASP
78	SR	52	GLN
78	SR	64	HIS
78	SR	73	LEU
78	SR	76	ASP
78	SR	106	HIS
78	SR	131	ILE
78	SR	141	LEU
78	SR	143	THR
78	SR	144	LEU
78	SR	147	HIS
78	SR	149	ASP
78	SR	165	ASP
78	SR	191	ASP
78	SR	202	LEU
78	SR	238	ASP
78	SR	265	LEU
78	SR	268	GLN
78	SR	308	ASN
78	SR	316	MET
79	SM	23	LYS
79	SM	24	GLU
79	SM	25	ILE
79	SM	27	LYS
79	SM	28	SER
79	SM	30	THR
79	SM	34	LYS
79	SM	61	ILE
79	SM	70	ASN
79	SM	89	ARG
79	SM	91	THR
79	SM	101	ASP
79	SM	102	THR
79	SM	113	ASP
79	SM	116	GLU
79	SM	139	GLU
4	l2	14	SER
4	l2	15	ILE
4	l2	23	ARG
4	l2	31	THR
4	l2	32	LEU

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Mol	Chain	Res	Type
4	l2	44	ILE
4	l2	45	VAL
4	l2	48	ILE
4	l2	79	ASN
4	l2	86	GLN
4	l2	98	VAL
4	l2	101	VAL
4	l2	104	LEU
4	l2	109	GLU
4	l2	113	VAL
4	l2	114	SER
4	l2	126	LEU
4	l2	159	SER
4	l2	165	VAL
4	l2	179	LEU
4	l2	193	ARG
4	l2	215	ASN
4	l2	225	ILE
4	l2	243	THR
5	l3	3	HIS
5	l3	4	ARG
5	l3	5	LYS
5	l3	7	GLU
5	l3	10	ARG
5	l3	24	SER
5	l3	34	LYS
5	l3	37	ARG
5	l3	44	THR
5	l3	47	LEU
5	l3	53	MET
5	l3	54	THR
5	l3	70	ARG
5	l3	73	VAL
5	l3	77	THR
5	l3	85	VAL
5	l3	103	THR
5	l3	104	THR
5	l3	111	SER
5	l3	112	ASP
5	l3	113	GLU
5	l3	114	VAL
5	l3	120	LYS

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Mol	Chain	Res	Type
5	l3	124	LYS
5	l3	134	SER
5	l3	146	ARG
5	l3	148	LEU
5	l3	169	THR
5	l3	183	LEU
5	l3	188	ILE
5	l3	192	VAL
5	l3	197	GLU
5	l3	202	THR
5	l3	205	VAL
5	l3	207	SER
5	l3	211	GLN
5	l3	221	THR
5	l3	222	LYS
5	l3	229	VAL
5	l3	232	ARG
5	l3	235	THR
5	l3	238	LEU
5	l3	242	THR
5	l3	252	ILE
5	l3	260	VAL
5	l3	266	ARG
5	l3	284	ARG
5	l3	285	VAL
5	l3	291	GLU
5	l3	297	SER
5	l3	316	GLU
5	l3	320	ASP
5	l3	322	ILE
5	l3	328	ILE
5	l3	354	VAL
5	l3	359	ILE
5	l3	369	ARG
5	l3	386	ASP
5	l3	387	LEU
6	l4	6	VAL
6	l4	10	SER
6	l4	14	GLU
6	l4	25	VAL
6	l4	37	THR
6	l4	52	VAL

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Mol	Chain	Res	Type
6	14	54	GLU
6	14	60	THR
6	14	64	SER
6	14	69	ARG
6	14	73	ARG
6	14	105	THR
6	14	112	LYS
6	14	138	ARG
6	14	141	ARG
6	14	145	ILE
6	14	150	LEU
6	14	156	LEU
6	14	172	VAL
6	14	177	ASP
6	14	179	LEU
6	14	186	LYS
6	14	187	LEU
6	14	191	LYS
6	14	194	TYR
6	14	197	ARG
6	14	200	THR
6	14	203	ARG
6	14	206	LEU
6	14	230	VAL
6	14	246	ARG
6	14	258	LEU
6	14	259	ASP
6	14	287	THR
6	14	313	LEU
6	14	327	LEU
6	14	338	LYS
6	14	339	LEU
6	14	356	THR
7	15	5	LYS
7	15	25	GLU
7	15	35	ARG
7	15	51	LEU
7	15	56	THR
7	15	61	ILE
7	15	65	ILE
7	15	68	THR
7	15	70	THR

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Mol	Chain	Res	Type
7	15	74	VAL
7	15	75	LEU
7	15	85	ARG
7	15	110	LEU
7	15	111	GLN
7	15	112	LYS
7	15	113	LEU
7	15	117	GLU
7	15	133	GLU
7	15	146	LEU
7	15	152	ARG
7	15	153	THR
7	15	154	THR
7	15	155	THR
7	15	158	ARG
7	15	178	ASN
7	15	183	TRP
7	15	185	PHE
7	15	194	LEU
7	15	210	GLU
7	15	211	LEU
7	15	220	SER
7	15	224	LYS
7	15	227	LEU
7	15	232	ASP
7	15	234	ASP
7	15	236	LEU
7	15	237	GLU
7	15	239	ILE
7	15	241	THR
7	15	259	LYS
7	15	271	LYS
7	15	274	GLN
7	15	279	LYS
8	16	2	SER
8	16	5	LYS
8	16	8	LYS
8	16	21	THR
8	16	26	ARG
8	16	30	LEU
8	16	46	ARG
8	16	50	LYS

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Mol	Chain	Res	Type
8	16	52	VAL
8	16	64	LEU
8	16	65	ILE
8	16	70	LYS
8	16	78	ARG
8	16	79	VAL
8	16	87	THR
8	16	88	SER
8	16	89	THR
8	16	96	VAL
8	16	98	VAL
8	16	109	GLU
8	16	129	GLU
8	16	152	THR
8	16	154	LEU
8	16	155	LEU
8	16	162	SER
8	16	174	LEU
9	17	22	THR
9	17	24	GLU
9	17	26	VAL
9	17	45	LEU
9	17	57	THR
9	17	77	VAL
9	17	78	GLU
9	17	83	LEU
9	17	87	VAL
9	17	88	ARG
9	17	98	LYS
9	17	110	ARG
9	17	124	LEU
9	17	130	ILE
9	17	158	LYS
9	17	159	GLN
9	17	173	LEU
9	17	175	LYS
9	17	179	LEU
9	17	180	SER
9	17	184	LEU
9	17	224	ILE
9	17	229	PHE
9	17	239	LEU

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Mol	Chain	Res	Type
10	18	57	ARG
10	18	67	ILE
10	18	68	ARG
10	18	74	THR
10	18	79	GLN
10	18	81	THR
10	18	83	ASP
10	18	111	LYS
10	18	132	VAL
10	18	136	LEU
10	18	162	LEU
10	18	164	VAL
10	18	169	LEU
10	18	191	ASN
10	18	192	GLN
10	18	200	LEU
10	18	203	VAL
10	18	248	LYS
11	19	2	LYS
11	19	6	THR
11	19	16	VAL
11	19	17	THR
11	19	18	VAL
11	19	31	ARG
11	19	48	VAL
11	19	52	LEU
11	19	55	VAL
11	19	68	LEU
11	19	70	THR
11	19	80	THR
11	19	92	TYR
11	19	93	VAL
11	19	105	GLU
11	19	132	VAL
11	19	133	THR
11	19	138	THR
11	19	140	VAL
11	19	151	VAL
11	19	152	GLU
11	19	161	LEU
11	19	170	LYS
11	19	173	ARG

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Mol	Chain	Res	Type
12	m0	3	ARG
12	m0	20	SER
12	m0	26	VAL
12	m0	28	ASP
12	m0	35	ASP
12	m0	42	THR
12	m0	48	LEU
12	m0	50	VAL
12	m0	52	LEU
12	m0	57	LEU
12	m0	58	GLU
12	m0	63	GLU
12	m0	71	CYS
12	m0	76	MET
12	m0	87	LEU
12	m0	90	ARG
12	m0	101	LYS
12	m0	129	VAL
12	m0	138	VAL
12	m0	142	ASP
12	m0	143	SER
12	m0	144	ASN
12	m0	145	LYS
12	m0	148	VAL
12	m0	154	ARG
12	m0	163	GLN
12	m0	165	ILE
12	m0	167	LEU
12	m0	169	LYS
12	m0	177	ASP
12	m0	185	ARG
12	m0	200	LEU
12	m0	205	SER
12	m0	207	GLU
12	m0	210	ILE
12	m0	217	PHE
12	m0	220	GLN
13	m1	7	ASN
13	m1	9	MET
13	m1	13	LYS
13	m1	16	LYS
13	m1	30	LEU

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Mol	Chain	Res	Type
13	m1	34	SER
13	m1	35	LYS
13	m1	44	THR
13	m1	46	VAL
13	m1	55	ARG
13	m1	56	THR
13	m1	101	ASN
13	m1	107	ASP
13	m1	112	LEU
13	m1	129	VAL
13	m1	130	VAL
13	m1	137	ARG
13	m1	148	VAL
13	m1	152	HIS
13	m1	153	LYS
13	m1	156	LYS
13	m1	157	GLU
13	m1	159	THR
14	m3	13	HIS
14	m3	15	ARG
14	m3	19	GLN
14	m3	22	VAL
14	m3	24	VAL
14	m3	45	LYS
14	m3	46	ILE
14	m3	53	LEU
14	m3	54	LEU
14	m3	57	VAL
14	m3	58	VAL
14	m3	69	VAL
14	m3	76	THR
14	m3	80	VAL
14	m3	85	LEU
14	m3	86	THR
14	m3	104	ARG
14	m3	122	LYS
14	m3	149	GLN
14	m3	152	THR
14	m3	164	GLU
14	m3	184	GLU
15	m4	4	ASP
15	m4	13	ARG

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Mol	Chain	Res	Type
15	m4	20	VAL
15	m4	21	VAL
15	m4	28	SER
15	m4	42	LYS
15	m4	62	GLN
15	m4	63	VAL
15	m4	72	LEU
15	m4	80	THR
15	m4	82	SER
15	m4	90	VAL
15	m4	108	ARG
16	m5	7	LEU
16	m5	8	GLU
16	m5	10	LEU
16	m5	13	LYS
16	m5	19	LEU
16	m5	22	LEU
16	m5	26	ARG
16	m5	49	ARG
16	m5	64	VAL
16	m5	65	ARG
16	m5	75	VAL
16	m5	77	LYS
16	m5	80	THR
16	m5	83	LYS
16	m5	98	LEU
16	m5	114	ARG
16	m5	117	ASN
16	m5	138	GLN
16	m5	153	ASP
16	m5	157	LYS
16	m5	170	LYS
16	m5	174	ILE
16	m5	180	PHE
16	m5	182	ASN
17	m6	4	GLU
17	m6	22	VAL
17	m6	25	LYS
17	m6	41	LEU
17	m6	56	ASP
17	m6	58	LEU
17	m6	67	THR

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Mol	Chain	Res	Type
17	m6	68	ARG
17	m6	78	ARG
17	m6	79	ILE
17	m6	84	LEU
17	m6	85	ARG
17	m6	106	GLU
17	m6	108	ILE
17	m6	116	LYS
17	m6	117	ARG
17	m6	119	VAL
17	m6	124	LEU
17	m6	128	ARG
17	m6	140	LYS
17	m6	141	LEU
17	m6	142	SER
17	m6	143	THR
17	m6	159	LYS
17	m6	182	ASN
17	m6	184	THR
18	m7	3	ARG
18	m7	7	THR
18	m7	20	SER
18	m7	25	SER
18	m7	29	THR
18	m7	32	THR
18	m7	40	GLU
18	m7	52	LEU
18	m7	56	ARG
18	m7	69	ARG
18	m7	78	VAL
18	m7	80	LYS
18	m7	89	LYS
18	m7	94	LEU
18	m7	107	LEU
18	m7	112	LEU
18	m7	114	VAL
18	m7	115	SER
18	m7	116	HIS
18	m7	118	GLN
18	m7	121	GLN
18	m7	126	ARG
18	m7	127	ARG

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Mol	Chain	Res	Type
18	m7	136	ILE
18	m7	142	SER
18	m7	144	SER
18	m7	148	LEU
18	m7	155	GLU
19	m8	3	ILE
19	m8	7	SER
19	m8	12	ARG
19	m8	21	SER
19	m8	26	LEU
19	m8	32	LEU
19	m8	49	LEU
19	m8	57	ILE
19	m8	64	VAL
19	m8	81	VAL
19	m8	86	THR
19	m8	93	ILE
19	m8	99	THR
19	m8	127	LEU
19	m8	138	LEU
19	m8	148	GLU
19	m8	158	HIS
19	m8	165	ILE
19	m8	168	THR
19	m8	170	ARG
19	m8	178	ARG
20	m9	10	LEU
20	m9	14	VAL
20	m9	17	VAL
20	m9	27	ASN
20	m9	29	THR
20	m9	34	GLN
20	m9	41	ILE
20	m9	63	THR
20	m9	74	ARG
20	m9	84	THR
20	m9	86	GLU
20	m9	88	ARG
20	m9	106	LEU
20	m9	121	HIS
20	m9	126	GLU
20	m9	128	LYS

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Mol	Chain	Res	Type
20	m9	130	ASN
20	m9	138	LEU
20	m9	153	LYS
20	m9	156	ASN
20	m9	171	ASP
20	m9	180	LYS
21	n0	1	MET
21	n0	13	ARG
21	n0	17	GLU
21	n0	23	LYS
21	n0	32	SER
21	n0	36	ILE
21	n0	48	LEU
21	n0	49	HIS
21	n0	50	LYS
21	n0	87	THR
21	n0	88	HIS
21	n0	96	ASP
21	n0	97	VAL
21	n0	100	VAL
21	n0	104	GLU
21	n0	105	THR
21	n0	106	LEU
21	n0	117	ARG
21	n0	121	ILE
21	n0	131	LYS
21	n0	132	THR
21	n0	137	ARG
21	n0	148	LEU
21	n0	149	LYS
21	n0	155	ARG
21	n0	162	THR
21	n0	172	TYR
22	n1	3	LYS
22	n1	9	SER
22	n1	17	ARG
22	n1	25	VAL
22	n1	28	SER
22	n1	36	VAL
22	n1	64	VAL
22	n1	78	LYS
22	n1	80	VAL

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Mol	Chain	Res	Type
22	n1	83	ARG
22	n1	88	ARG
22	n1	89	LEU
22	n1	102	ARG
22	n1	107	GLU
22	n1	116	ARG
22	n1	120	LYS
22	n1	127	GLN
22	n1	131	GLN
22	n1	136	ARG
22	n1	137	GLU
22	n1	139	ARG
22	n1	141	VAL
22	n1	143	THR
23	n2	17	VAL
23	n2	39	ASP
23	n2	55	THR
23	n2	57	THR
23	n2	58	GLU
23	n2	64	THR
23	n2	74	LYS
23	n2	93	ILE
23	n2	100	THR
23	n2	104	ARG
24	n3	7	GLN
24	n3	9	THR
24	n3	13	ILE
24	n3	14	SER
24	n3	15	LEU
24	n3	32	ARG
24	n3	44	SER
24	n3	45	ARG
24	n3	48	ARG
24	n3	68	GLU
24	n3	69	LEU
24	n3	91	VAL
24	n3	108	GLU
24	n3	131	SER
24	n3	135	VAL
81	n4	19	THR
81	n4	25	ASP
81	n4	36	SER

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Mol	Chain	Res	Type
81	n4	39	LEU
81	n4	96	LEU
81	n4	99	GLU
81	n4	107	GLU
81	n4	109	LEU
81	n4	127	LYS
26	n5	24	LEU
26	n5	27	ARG
26	n5	34	LEU
26	n5	37	THR
26	n5	40	LEU
26	n5	51	VAL
26	n5	56	ARG
26	n5	59	SER
26	n5	71	THR
26	n5	86	VAL
26	n5	102	LEU
26	n5	115	ARG
26	n5	142	ILE
27	n6	4	GLN
27	n6	6	LEU
27	n6	12	ARG
27	n6	16	ARG
27	n6	21	THR
27	n6	37	LYS
27	n6	40	ARG
27	n6	42	GLN
27	n6	45	ILE
27	n6	48	LEU
27	n6	56	VAL
27	n6	57	LEU
27	n6	59	VAL
27	n6	66	GLN
27	n6	71	SER
27	n6	73	VAL
27	n6	77	LYS
27	n6	85	VAL
27	n6	115	ARG
27	n6	120	GLN
27	n6	122	LYS
28	n7	14	VAL
28	n7	27	LYS

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Mol	Chain	Res	Type
28	n7	29	HIS
28	n7	36	HIS
28	n7	46	ILE
28	n7	81	LEU
28	n7	95	VAL
28	n7	99	GLU
28	n7	100	THR
28	n7	108	GLU
28	n7	121	ARG
28	n7	134	LEU
29	n8	3	SER
29	n8	4	ARG
29	n8	7	LYS
29	n8	8	THR
29	n8	10	LYS
29	n8	12	ARG
29	n8	15	VAL
29	n8	25	HIS
29	n8	32	ARG
29	n8	34	MET
29	n8	46	ASP
29	n8	47	LYS
29	n8	56	VAL
29	n8	59	ARG
29	n8	72	VAL
29	n8	77	LYS
29	n8	82	ILE
29	n8	88	ASP
29	n8	115	LYS
29	n8	133	LEU
30	n9	3	LYS
30	n9	13	THR
30	n9	17	HIS
30	n9	19	ASN
30	n9	21	ILE
30	n9	22	LYS
30	n9	25	LYS
31	o0	11	ASN
31	o0	34	LEU
31	o0	41	LEU
31	o0	52	ARG
31	o0	59	TYR

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Mol	Chain	Res	Type
31	o0	61	MET
31	o0	76	GLU
31	o0	91	SER
31	o0	97	ASP
31	o0	104	LEU
32	o1	4	LEU
32	o1	5	LYS
32	o1	16	LEU
32	o1	31	ARG
32	o1	44	MET
32	o1	46	THR
32	o1	55	LEU
32	o1	64	VAL
32	o1	76	SER
32	o1	89	LEU
32	o1	91	SER
32	o1	93	VAL
32	o1	96	VAL
32	o1	106	THR
32	o1	107	VAL
32	o1	112	ASP
33	o2	4	LEU
33	o2	14	THR
33	o2	15	LYS
33	o2	18	LYS
33	o2	24	ARG
33	o2	27	ARG
33	o2	30	GLU
33	o2	33	ARG
33	o2	35	GLN
33	o2	38	ILE
33	o2	41	VAL
33	o2	50	ILE
33	o2	51	SER
33	o2	73	THR
33	o2	75	LEU
33	o2	81	ASP
33	o2	82	LEU
33	o2	100	ILE
33	o2	103	LYS
33	o2	125	ARG
34	o3	10	LYS

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Mol	Chain	Res	Type
34	o3	12	LYS
34	o3	20	LYS
34	o3	59	VAL
34	o3	62	SER
34	o3	74	THR
34	o3	80	VAL
34	o3	81	VAL
34	o3	98	VAL
34	o3	105	SER
34	o3	107	ILE
35	o4	21	LYS
35	o4	22	VAL
35	o4	29	ILE
35	o4	38	LEU
35	o4	58	ARG
35	o4	64	THR
35	o4	66	SER
35	o4	68	THR
35	o4	71	THR
35	o4	97	GLU
36	o5	20	GLN
36	o5	21	LEU
36	o5	27	GLU
36	o5	36	LEU
36	o5	38	ARG
36	o5	41	LEU
36	o5	46	THR
36	o5	55	LEU
36	o5	67	ARG
36	o5	79	ASP
36	o5	85	THR
36	o5	86	ARG
36	o5	89	ARG
36	o5	98	SER
36	o5	115	LYS
37	o6	2	THR
37	o6	3	VAL
37	o6	15	LYS
37	o6	17	VAL
37	o6	19	SER
37	o6	21	THR
37	o6	26	ILE

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Mol	Chain	Res	Type
37	o6	35	ASN
37	o6	38	LYS
37	o6	57	LEU
37	o6	68	ARG
37	o6	89	GLU
37	o6	99	ARG
38	o7	3	LYS
38	o7	16	HIS
38	o7	25	ARG
38	o7	28	HIS
38	o7	33	THR
38	o7	44	THR
38	o7	46	SER
38	o7	58	THR
38	o7	59	THR
38	o7	65	ARG
38	o7	80	THR
39	o8	16	ARG
39	o8	27	ILE
39	o8	41	THR
39	o8	46	ARG
39	o8	56	ILE
39	o8	64	LYS
40	o9	4	GLN
40	o9	6	SER
40	o9	12	LYS
40	o9	15	LYS
40	o9	21	ARG
40	o9	23	LEU
40	o9	28	ARG
40	o9	29	LEU
40	o9	42	ARG
40	o9	45	ARG
40	o9	49	MET
40	o9	51	ILE
82	p0	5	ARG
82	p0	10	GLU
82	p0	15	LEU
82	p0	48	ARG
82	p0	51	VAL
82	p0	52	LEU
82	p0	55	LYS

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Mol	Chain	Res	Type
82	p0	59	VAL
82	p0	67	LEU
82	p0	72	ASP
82	p0	93	LEU
82	p0	104	ARG
82	p0	196	VAL
41	q0	79	GLU
41	q0	85	LEU
41	q0	88	LYS
41	q0	91	CYS
41	q0	98	LYS
41	q0	113	ARG
41	q0	114	LYS
41	q0	127	LEU
42	q1	2	ARG
42	q1	8	LYS
42	q1	9	ARG
42	q1	24	SER
42	q1	25	LYS
43	q2	2	VAL
43	q2	7	THR
43	q2	8	ARG
43	q2	13	LYS
43	q2	17	CYS
43	q2	18	ARG
43	q2	26	THR
43	q2	28	TYR
43	q2	47	GLN
43	q2	48	SER
43	q2	61	LYS
43	q2	71	ARG
43	q2	78	LYS
43	q2	80	ARG
43	q2	85	LEU
43	q2	87	ARG
43	q2	92	GLU
43	q2	93	LEU
43	q2	96	GLU
43	q2	104	LEU
43	q2	105	GLN
44	q3	4	ARG
44	q3	10	ILE

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Mol	Chain	Res	Type
44	q3	16	VAL
44	q3	25	GLN
44	q3	26	VAL
44	q3	49	ARG
44	q3	54	ILE
44	q3	60	CYS
44	q3	79	VAL
44	q3	81	SER
44	q3	82	THR
46	s0	3	LEU
46	s0	9	LEU
46	s0	22	THR
46	s0	30	GLN
46	s0	50	VAL
46	s0	59	LEU
46	s0	62	ARG
46	s0	83	GLN
46	s0	87	LEU
46	s0	103	THR
46	s0	111	ILE
46	s0	133	ILE
46	s0	135	GLU
46	s0	139	VAL
46	s0	153	SER
46	s0	154	GLU
46	s0	157	ASP
46	s0	164	ASN
46	s0	168	HIS
46	s0	172	LEU
46	s0	190	ASP
46	s0	202	TYR
46	s0	203	PHE
47	s1	47	LEU
47	s1	54	LEU
47	s1	61	LEU
47	s1	62	LYS
47	s1	70	LEU
47	s1	73	LEU
47	s1	78	ASP
47	s1	96	LEU
47	s1	98	THR
47	s1	115	ARG

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Mol	Chain	Res	Type
47	s1	128	LYS
47	s1	169	SER
47	s1	173	THR
47	s1	183	GLN
47	s1	185	THR
47	s1	192	VAL
47	s1	194	ASN
47	s1	197	ILE
47	s1	228	LEU
47	s1	231	LEU
47	s1	234	GLU
48	s2	51	THR
48	s2	55	GLU
48	s2	69	ILE
48	s2	72	LEU
48	s2	73	LEU
48	s2	80	VAL
48	s2	81	MET
48	s2	87	GLN
48	s2	89	GLN
48	s2	90	THR
48	s2	91	ARG
48	s2	94	GLN
48	s2	97	ARG
48	s2	102	VAL
48	s2	111	VAL
48	s2	113	LEU
48	s2	117	THR
48	s2	137	ILE
48	s2	139	ILE
48	s2	141	ARG
48	s2	146	THR
48	s2	152	HIS
48	s2	164	SER
48	s2	216	VAL
48	s2	218	ILE
48	s2	225	LEU
48	s2	229	LEU
48	s2	240	LEU
48	s2	246	GLU
49	s3	5	ILE
49	s3	7	LYS

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Mol	Chain	Res	Type
49	s3	11	LEU
49	s3	21	LEU
49	s3	35	SER
49	s3	44	THR
49	s3	45	LYS
49	s3	55	THR
49	s3	58	VAL
49	s3	66	ILE
49	s3	84	ILE
49	s3	85	VAL
49	s3	111	ASN
49	s3	113	LEU
49	s3	115	ILE
49	s3	116	ARG
49	s3	117	ARG
49	s3	127	MET
49	s3	139	SER
49	s3	162	GLN
49	s3	168	ILE
49	s3	170	THR
49	s3	172	THR
49	s3	176	LEU
49	s3	178	ARG
49	s3	213	GLU
49	s3	218	LEU
50	s4	6	LYS
50	s4	9	LEU
50	s4	11	ARG
50	s4	12	LEU
50	s4	38	LEU
50	s4	45	ILE
50	s4	57	ASN
50	s4	66	MET
50	s4	67	GLN
50	s4	77	ARG
50	s4	100	ARG
50	s4	102	VAL
50	s4	104	ASP
50	s4	113	ARG
50	s4	116	ASP
50	s4	126	VAL
50	s4	131	LEU

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Mol	Chain	Res	Type
50	s4	138	TYR
50	s4	145	ARG
50	s4	148	ARG
50	s4	164	LEU
50	s4	170	THR
50	s4	180	LEU
50	s4	182	TYR
50	s4	187	ARG
50	s4	189	LEU
50	s4	194	THR
50	s4	216	ASN
50	s4	217	THR
50	s4	220	THR
50	s4	228	ILE
50	s4	236	ILE
50	s4	244	ILE
50	s4	246	LEU
50	s4	248	ILE
50	s4	252	ARG
51	s5	25	LEU
51	s5	27	THR
51	s5	31	GLU
51	s5	33	VAL
51	s5	37	GLN
51	s5	38	THR
51	s5	42	LEU
51	s5	51	VAL
51	s5	59	VAL
51	s5	60	ASP
51	s5	63	GLN
51	s5	64	VAL
51	s5	65	ARG
51	s5	79	ASN
51	s5	84	LYS
51	s5	89	ILE
51	s5	90	ILE
51	s5	93	LEU
51	s5	130	ILE
51	s5	156	ARG
51	s5	157	ARG
51	s5	162	VAL
51	s5	167	ARG

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Mol	Chain	Res	Type
51	s5	181	GLU
51	s5	185	ARG
51	s5	187	ILE
51	s5	190	ILE
51	s5	194	LEU
51	s5	203	LYS
51	s5	208	SER
51	s5	213	LYS
51	s5	225	ARG
52	s6	1	MET
52	s6	5	ILE
52	s6	6	SER
52	s6	15	THR
52	s6	31	ARG
52	s6	50	PHE
52	s6	57	ASP
52	s6	69	LEU
52	s6	71	THR
52	s6	76	LEU
52	s6	92	ARG
52	s6	97	VAL
52	s6	111	LEU
52	s6	121	LEU
52	s6	126	ASP
52	s6	127	THR
52	s6	128	THR
52	s6	143	LYS
52	s6	166	GLU
52	s6	215	ARG
53	s7	8	ILE
53	s7	11	GLN
53	s7	38	LEU
53	s7	50	ASP
53	s7	62	VAL
53	s7	64	VAL
53	s7	67	LEU
53	s7	77	LEU
53	s7	86	GLN
53	s7	90	VAL
53	s7	95	GLU
53	s7	108	GLN
53	s7	117	THR

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Mol	Chain	Res	Type
53	s7	118	LEU
53	s7	119	THR
53	s7	126	LEU
53	s7	139	ARG
53	s7	160	GLN
53	s7	162	ILE
53	s7	166	LEU
53	s7	185	ILE
54	s8	18	ARG
54	s8	20	GLN
54	s8	28	GLU
54	s8	36	THR
54	s8	38	ILE
54	s8	59	ARG
54	s8	60	ILE
54	s8	61	GLU
54	s8	69	SER
54	s8	76	THR
54	s8	82	VAL
54	s8	101	ILE
54	s8	116	HIS
54	s8	121	LEU
54	s8	137	LYS
54	s8	151	LYS
54	s8	155	SER
54	s8	168	CYS
54	s8	184	LEU
55	s9	3	ARG
55	s9	6	ARG
55	s9	11	THR
55	s9	22	SER
55	s9	28	LEU
55	s9	39	LYS
55	s9	46	SER
55	s9	93	LEU
55	s9	96	VAL
55	s9	99	LEU
55	s9	105	LEU
55	s9	109	LEU
55	s9	116	LEU
55	s9	130	THR
55	s9	133	HIS

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Mol	Chain	Res	Type
55	s9	134	ILE
55	s9	147	MET
55	s9	168	ARG
55	s9	182	GLU
55	s9	186	GLU
56	c0	3	MET
56	c0	15	LEU
56	c0	20	VAL
56	c0	22	VAL
56	c0	33	GLU
56	c0	35	ILE
56	c0	36	ASP
56	c0	37	THR
56	c0	40	LEU
56	c0	52	LYS
56	c0	55	VAL
57	c1	21	ASN
57	c1	25	VAL
57	c1	33	ARG
57	c1	40	LEU
57	c1	60	PHE
57	c1	61	THR
57	c1	72	THR
57	c1	74	THR
57	c1	83	THR
57	c1	90	TYR
57	c1	99	ARG
57	c1	117	VAL
57	c1	122	ILE
57	c1	123	VAL
57	c1	125	VAL
57	c1	129	ARG
58	c2	26	ASP
58	c2	28	LEU
58	c2	52	LEU
58	c2	58	LEU
58	c2	61	VAL
58	c2	71	ILE
58	c2	91	VAL
58	c2	103	LEU
58	c2	120	VAL
58	c2	121	VAL

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Mol	Chain	Res	Type
58	c2	129	GLU
58	c2	136	ILE
58	c2	140	PHE
59	c3	12	SER
59	c3	40	TYR
59	c3	52	VAL
59	c3	66	ILE
59	c3	70	LYS
59	c3	72	MET
59	c3	80	LEU
59	c3	87	ASP
59	c3	94	LYS
59	c3	115	LEU
59	c3	125	LEU
59	c3	131	THR
59	c3	134	VAL
60	c4	14	PHE
60	c4	28	VAL
60	c4	55	SER
60	c4	61	MET
60	c4	71	CYS
60	c4	81	VAL
60	c4	89	THR
60	c4	114	ARG
60	c4	115	ILE
60	c4	123	SER
60	c4	132	ARG
60	c4	136	ARG
60	c4	137	LEU
61	c5	10	ARG
61	c5	21	ASP
61	c5	22	LEU
61	c5	34	VAL
61	c5	41	VAL
61	c5	71	GLU
61	c5	92	SER
61	c5	107	ILE
61	c5	121	ILE
61	c5	122	THR
61	c5	124	THR
61	c5	127	ARG
62	c6	13	LYS

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Mol	Chain	Res	Type
62	c6	17	THR
62	c6	23	LYS
62	c6	37	THR
62	c6	40	GLU
62	c6	42	GLU
62	c6	48	VAL
62	c6	53	LEU
62	c6	57	LEU
62	c6	69	VAL
62	c6	70	THR
62	c6	111	SER
62	c6	113	ASP
62	c6	117	LEU
62	c6	121	SER
62	c6	137	ARG
62	c6	141	SER
63	c7	6	THR
63	c7	7	LYS
63	c7	26	LEU
63	c7	29	GLN
63	c7	30	THR
63	c7	34	LEU
63	c7	46	LEU
63	c7	54	THR
63	c7	66	VAL
63	c7	69	ILE
63	c7	72	LYS
63	c7	75	GLU
63	c7	102	VAL
63	c7	103	ASP
64	c8	3	LEU
64	c8	4	VAL
64	c8	5	VAL
64	c8	7	GLU
64	c8	12	GLN
64	c8	13	HIS
64	c8	26	ILE
64	c8	28	ILE
64	c8	33	THR
64	c8	38	VAL
64	c8	40	ARG
64	c8	61	LEU

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Mol	Chain	Res	Type
64	c8	69	ILE
64	c8	73	MET
64	c8	74	GLN
64	c8	96	LYS
64	c8	97	ASP
64	c8	100	THR
64	c8	101	LEU
64	c8	116	LEU
64	c8	120	ARG
64	c8	134	ARG
64	c8	138	THR
64	c8	140	THR
64	c8	143	ARG
65	c9	6	VAL
65	c9	25	GLN
65	c9	28	LEU
65	c9	33	TYR
65	c9	36	ILE
65	c9	37	VAL
65	c9	38	LYS
65	c9	43	ASN
65	c9	57	ARG
65	c9	68	ARG
65	c9	71	VAL
65	c9	86	ARG
65	c9	88	VAL
65	c9	89	ARG
65	c9	99	SER
65	c9	116	ILE
65	c9	119	LYS
65	c9	123	ARG
65	c9	125	SER
65	c9	126	GLU
66	d0	19	ILE
66	d0	22	ILE
66	d0	25	THR
66	d0	27	THR
66	d0	34	LEU
66	d0	41	ILE
66	d0	42	VAL
66	d0	43	LYS
66	d0	44	ASN

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Mol	Chain	Res	Type
66	d0	64	LYS
66	d0	70	THR
66	d0	77	LYS
66	d0	88	LYS
66	d0	103	ILE
66	d0	109	GLU
66	d0	115	GLU
67	d1	1	MET
67	d1	3	ASN
67	d1	10	GLU
67	d1	21	ASN
67	d1	32	VAL
67	d1	52	THR
67	d1	62	ARG
67	d1	68	SER
67	d1	81	ASN
68	d2	3	ARG
68	d2	4	SER
68	d2	6	VAL
68	d2	7	LEU
68	d2	9	ASP
68	d2	20	THR
68	d2	65	LEU
68	d2	68	ARG
68	d2	98	GLN
68	d2	102	VAL
68	d2	103	ILE
68	d2	125	ILE
68	d2	126	LEU
69	d3	19	ARG
69	d3	28	ASN
69	d3	46	SER
69	d3	52	ILE
69	d3	69	ARG
69	d3	73	ARG
69	d3	84	THR
69	d3	96	VAL
69	d3	100	ASP
69	d3	107	PHE
69	d3	144	ARG
70	d4	35	VAL
70	d4	37	LYS

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Mol	Chain	Res	Type
70	d4	40	LEU
70	d4	46	GLU
70	d4	49	LYS
70	d4	53	ASP
70	d4	57	VAL
70	d4	62	THR
70	d4	79	VAL
70	d4	88	THR
70	d4	114	ARG
70	d4	124	ARG
70	d4	132	ARG
71	d5	40	VAL
71	d5	41	ILE
71	d5	70	LYS
71	d5	71	ILE
71	d5	78	ILE
71	d5	85	LYS
71	d5	97	LYS
71	d5	102	THR
72	d6	7	SER
72	d6	10	ARG
72	d6	11	ASN
72	d6	12	LYS
72	d6	18	VAL
72	d6	21	VAL
72	d6	30	ILE
72	d6	84	VAL
72	d6	88	SER
72	d6	91	ASP
73	d7	2	VAL
73	d7	3	LEU
73	d7	37	CYS
73	d7	41	LEU
73	d7	52	THR
73	d7	56	CYS
73	d7	77	THR
73	d7	81	ARG
74	d8	12	VAL
74	d8	15	VAL
74	d8	29	ARG
74	d8	31	GLU
74	d8	32	PHE

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Mol	Chain	Res	Type
74	d8	33	LEU
74	d8	38	ARG
74	d8	40	ILE
74	d8	49	ARG
74	d8	58	GLU
74	d8	60	GLU
74	d8	62	GLU
74	d8	65	ARG
75	d9	10	HIS
75	d9	16	LYS
75	d9	28	THR
75	d9	30	LEU
75	d9	32	ARG
75	d9	36	LEU
75	d9	38	ILE
75	d9	39	CYS
76	e0	3	LYS
76	e0	4	VAL
76	e0	5	HIS
76	e0	8	LEU
76	e0	13	LYS
76	e0	39	LEU
76	e0	44	PHE
76	e0	45	VAL
76	e0	48	THR
76	e0	55	ARG
76	e0	56	MET
77	e1	84	VAL
77	e1	90	LYS
77	e1	91	ILE
77	e1	92	LYS
77	e1	98	VAL
77	e1	99	LYS
77	e1	100	LEU
77	e1	106	TYR
77	e1	108	VAL
77	e1	117	LEU
77	e1	130	VAL
77	e1	137	ASP
77	e1	144	CYS
77	e1	150	VAL
78	sR	4	ASN

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Mol	Chain	Res	Type
78	sR	14	GLU
78	sR	22	SER
78	sR	48	THR
78	sR	64	HIS
78	sR	70	ASP
78	sR	76	ASP
78	sR	96	THR
78	sR	123	ILE
78	sR	126	SER
78	sR	145	LEU
78	sR	167	VAL
78	sR	188	ILE
78	sR	189	GLU
78	sR	195	HIS
78	sR	197	SER
78	sR	238	ASP
78	sR	258	THR
78	sR	260	ILE
78	sR	266	ASP
78	sR	282	SER
78	sR	283	LYS
78	sR	307	ASP
78	sR	308	ASN
79	sM	23	LYS
79	sM	30	THR
79	sM	33	LYS
79	sM	61	ILE
79	sM	64	LYS
79	sM	77	THR
79	sM	84	LYS
79	sM	96	ARG
79	sM	102	THR
79	sM	103	LYS
79	sM	104	LYS
79	sM	110	TRP
79	sM	131	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (176) such sidechains are listed below:

Mol	Chain	Res	Type
4	L2	47	GLN
4	L2	86	GLN

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Mol	Chain	Res	Type
6	L4	48	GLN
6	L4	291	ASN
7	L5	81	HIS
7	L5	244	HIS
7	L5	264	GLN
10	L8	85	ASN
11	L9	49	ASN
11	L9	64	HIS
11	L9	162	GLN
12	M0	59	GLN
13	M1	6	GLN
13	M1	7	ASN
13	M1	20	ASN
13	M1	47	GLN
13	M1	68	HIS
13	M1	109	HIS
14	M3	120	GLN
15	M4	126	GLN
16	M5	32	GLN
16	M5	112	ASN
18	M7	120	ASN
19	M8	9	GLN
19	M8	23	ASN
19	M8	136	ASN
20	M9	144	GLN
21	N0	46	GLN
21	N0	65	ASN
22	N1	134	GLN
23	N2	40	HIS
23	N2	52	ASN
24	N3	47	ASN
24	N3	98	ASN
26	N5	85	GLN
27	N6	110	HIS
28	N7	57	HIS
29	N8	62	HIS
32	O1	21	HIS
32	O1	57	GLN
34	O3	106	ASN
35	O4	11	ASN
36	O5	61	GLN
36	O5	62	GLN

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Mol	Chain	Res	Type
36	O5	68	GLN
38	O7	30	GLN
43	Q2	82	GLN
43	Q2	102	GLN
44	Q3	32	GLN
44	Q3	33	GLN
46	S0	46	HIS
47	S1	118	GLN
47	S1	124	ASN
47	S1	146	GLN
47	S1	209	ASN
48	S2	59	HIS
48	S2	94	GLN
50	S4	57	ASN
50	S4	209	HIS
51	S5	170	GLN
52	S6	65	GLN
52	S6	176	GLN
53	S7	71	HIS
53	S7	160	GLN
54	S8	103	GLN
55	S9	139	GLN
56	C0	17	GLN
56	C0	28	ASN
57	C1	81	HIS
61	C5	15	HIS
61	C5	103	ASN
62	C6	32	ASN
64	C8	75	ASN
64	C8	99	HIS
64	C8	127	HIS
66	D0	17	GLN
66	D0	40	ASN
67	D1	29	HIS
67	D1	33	GLN
68	D2	39	GLN
70	D4	63	GLN
71	D5	95	HIS
72	D6	8	ASN
73	D7	19	HIS
75	D9	5	ASN
78	SR	308	ASN

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Mol	Chain	Res	Type
79	SM	108	GLN
4	l2	215	ASN
5	l3	211	GLN
6	l4	45	ASN
6	l4	279	HIS
7	l5	17	GLN
7	l5	81	HIS
8	l6	28	GLN
9	l7	93	ASN
9	l7	159	GLN
9	l7	166	ASN
10	l8	38	GLN
10	l8	155	ASN
11	l9	9	GLN
11	l9	162	GLN
12	m0	23	ASN
12	m0	123	HIS
13	m1	150	ASN
16	m5	32	GLN
16	m5	87	GLN
16	m5	95	GLN
16	m5	138	GLN
18	m7	55	GLN
20	m9	7	GLN
20	m9	27	ASN
20	m9	34	GLN
20	m9	118	HIS
20	m9	141	HIS
21	n0	157	GLN
22	n1	16	GLN
22	n1	22	HIS
22	n1	77	ASN
23	n2	49	ASN
24	n3	4	ASN
81	n4	42	GLN
26	n5	111	ASN
27	n6	42	GLN
27	n6	66	GLN
27	n6	120	GLN
28	n7	57	HIS
28	n7	127	ASN
28	n7	128	GLN

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Mol	Chain	Res	Type
29	n8	38	GLN
29	n8	39	HIS
30	n9	12	GLN
33	o2	49	ASN
36	o5	34	GLN
36	o5	113	GLN
38	o7	20	ASN
82	p0	37	GLN
47	s1	40	ASN
47	s1	199	ASN
47	s1	209	ASN
47	s1	232	HIS
50	s4	98	ASN
50	s4	197	HIS
51	s5	224	ASN
52	s6	182	GLN
53	s7	71	HIS
53	s7	150	GLN
55	s9	139	GLN
56	c0	32	HIS
56	c0	58	GLN
57	c1	81	HIS
57	c1	106	ASN
57	c1	138	ASN
58	c2	70	ASN
58	c2	142	GLN
59	c3	49	GLN
62	c6	83	GLN
64	c8	19	ASN
64	c8	44	ASN
65	c9	16	ASN
65	c9	48	GLN
66	d0	14	GLN
66	d0	72	ASN
67	d1	3	ASN
70	d4	22	GLN
70	d4	63	GLN
73	d7	51	GLN
74	d8	27	GLN
75	d9	48	ASN
75	d9	53	ASN
76	e0	17	GLN

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Mol	Chain	Res	Type
77	e1	135	HIS
78	sR	106	HIS
78	sR	182	ASN
78	sR	248	ASN
78	sR	268	GLN
79	sM	70	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3095/3396 (91%)	702 (22%)	86 (2%)
1	5	3129/3396 (92%)	753 (24%)	83 (2%)
2	3	120/121 (99%)	22 (18%)	1 (0%)
2	7	120/121 (99%)	24 (20%)	1 (0%)
3	4	154/158 (97%)	36 (23%)	2 (1%)
3	8	157/158 (99%)	43 (27%)	1 (0%)
45	2	1708/1800 (94%)	482 (28%)	59 (3%)
45	6	1733/1800 (96%)	486 (28%)	62 (3%)
All	All	10216/10950 (93%)	2548 (24%)	295 (2%)

All (2548) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	13	A
1	1	14	U
1	1	16	A
1	1	26	A
1	1	30	G
1	1	40	A
1	1	49	A
1	1	57	A
1	1	59	G
1	1	60	A
1	1	65	A
1	1	66	A
1	1	68	C
1	1	73	C
1	1	74	G
1	1	76	G
1	1	92	G
1	1	101	G

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Mol	Chain	Res	Type
1	1	109	A
1	1	110	G
1	1	111	C
1	1	113	C
1	1	118	U
1	1	121	A
1	1	122	A
1	1	123	A
1	1	133	U
1	1	135	C
1	1	136	G
1	1	146	U
1	1	147	U
1	1	148	G
1	1	156	G
1	1	157	A
1	1	166	C
1	1	169	U
1	1	170	G
1	1	187	A
1	1	190	U
1	1	191	U
1	1	192	C
1	1	200	C
1	1	210	U
1	1	211	A
1	1	218	G
1	1	219	A
1	1	227	G
1	1	228	U
1	1	237	G
1	1	238	A
1	1	240	U
1	1	241	G
1	1	244	G
1	1	245	U
1	1	250	U
1	1	251	G
1	1	252	U
1	1	269	G
1	1	286	U
1	1	295	A

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Mol	Chain	Res	Type
1	1	298	U
1	1	305	U
1	1	315	C
1	1	316	U
1	1	323	A
1	1	329	U
1	1	334	A
1	1	338	A
1	1	339	C
1	1	349	A
1	1	350	C
1	1	373	A
1	1	374	A
1	1	376	G
1	1	378	A
1	1	390	G
1	1	397	A
1	1	398	A
1	1	401	U
1	1	402	A
1	1	403	C
1	1	404	G
1	1	420	G
1	1	421	G
1	1	422	A
1	1	437	G
1	1	439	C
1	1	440	A
1	1	495	G
1	1	496	C
1	1	498	A
1	1	511	G
1	1	519	A
1	1	521	A
1	1	535	G
1	1	543	C
1	1	544	C
1	1	546	C
1	1	547	G
1	1	548	G
1	1	549	U
1	1	552	G

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Mol	Chain	Res	Type
1	1	555	U
1	1	557	A
1	1	558	U
1	1	559	A
1	1	566	G
1	1	568	G
1	1	578	A
1	1	579	G
1	1	592	A
1	1	594	U
1	1	595	G
1	1	597	G
1	1	600	G
1	1	603	A
1	1	604	G
1	1	609	G
1	1	611	A
1	1	619	A
1	1	620	U
1	1	621	A
1	1	622	A
1	1	623	U
1	1	636	C
1	1	637	C
1	1	638	C
1	1	641	C
1	1	642	U
1	1	646	A
1	1	649	A
1	1	651	G
1	1	660	A
1	1	661	G
1	1	662	U
1	1	677	A
1	1	681	U
1	1	683	U
1	1	691	A
1	1	696	C
1	1	698	U
1	1	705	A
1	1	712	G
1	1	715	A

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Mol	Chain	Res	Type
1	1	716	A
1	1	719	U
1	1	725	G
1	1	726	G
1	1	758	C
1	1	764	U
1	1	766	U
1	1	767	U
1	1	776	U
1	1	777	U
1	1	778	U
1	1	781	G
1	1	785	G
1	1	786	A
1	1	806	A
1	1	816	A
1	1	817	A
1	1	823	C
1	1	830	A
1	1	832	G
1	1	849	C
1	1	857	G
1	1	861	C
1	1	874	U
1	1	875	G
1	1	879	U
1	1	883	A
1	1	890	C
1	1	894	G
1	1	896	A
1	1	905	U
1	1	907	G
1	1	908	G
1	1	913	A
1	1	914	A
1	1	916	G
1	1	917	A
1	1	920	A
1	1	921	A
1	1	924	G
1	1	937	G
1	1	944	C

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Mol	Chain	Res	Type
1	1	953	G
1	1	959	C
1	1	960	U
1	1	962	A
1	1	974	G
1	1	979	U
1	1	980	A
1	1	981	U
1	1	982	C
1	1	993	G
1	1	994	G
1	1	1001	G
1	1	1002	A
1	1	1010	G
1	1	1015	U
1	1	1016	C
1	1	1017	C
1	1	1018	G
1	1	1020	G
1	1	1021	G
1	1	1024	G
1	1	1025	A
1	1	1026	A
1	1	1028	U
1	1	1029	G
1	1	1030	A
1	1	1036	A
1	1	1037	C
1	1	1045	C
1	1	1047	A
1	1	1049	C
1	1	1057	A
1	1	1064	A
1	1	1065	A
1	1	1071	U
1	1	1072	G
1	1	1081	U
1	1	1082	U
1	1	1083	G
1	1	1087	G
1	1	1093	A
1	1	1094	U

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Mol	Chain	Res	Type
1	1	1095	U
1	1	1096	U
1	1	1097	G
1	1	1098	A
1	1	1103	A
1	1	1104	G
1	1	1117	G
1	1	1131	G
1	1	1153	A
1	1	1159	A
1	1	1178	G
1	1	1180	A
1	1	1181	U
1	1	1186	G
1	1	1190	A
1	1	1191	U
1	1	1192	C
1	1	1201	C
1	1	1209	G
1	1	1211	U
1	1	1213	G
1	1	1216	C
1	1	1218	U
1	1	1220	U
1	1	1221	A
1	1	1222	G
1	1	1227	C
1	1	1279	C
1	1	1281	G
1	1	1284	C
1	1	1285	G
1	1	1286	A
1	1	1287	A
1	1	1288	U
1	1	1292	C
1	1	1303	A
1	1	1305	U
1	1	1307	G
1	1	1308	A
1	1	1309	U
1	1	1313	G
1	1	1317	A

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Mol	Chain	Res	Type
1	1	1318	A
1	1	1325	U
1	1	1326	A
1	1	1330	A
1	1	1331	U
1	1	1332	A
1	1	1345	G
1	1	1349	G
1	1	1350	A
1	1	1351	U
1	1	1352	A
1	1	1353	U
1	1	1355	A
1	1	1356	U
1	1	1357	G
1	1	1377	G
1	1	1386	A
1	1	1395	G
1	1	1399	A
1	1	1400	G
1	1	1407	A
1	1	1408	G
1	1	1419	A
1	1	1421	G
1	1	1431	G
1	1	1433	A
1	1	1434	G
1	1	1437	C
1	1	1446	A
1	1	1450	G
1	1	1454	A
1	1	1455	U
1	1	1467	A
1	1	1481	A
1	1	1482	A
1	1	1484	U
1	1	1485	G
1	1	1506	A
1	1	1508	C
1	1	1514	G
1	1	1527	C
1	1	1546	A

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Mol	Chain	Res	Type
1	1	1555	U
1	1	1556	C
1	1	1557	A
1	1	1558	A
1	1	1560	G
1	1	1561	G
1	1	1562	C
1	1	1563	C
1	1	1564	U
1	1	1565	G
1	1	1566	A
1	1	1567	U
1	1	1568	U
1	1	1569	U
1	1	1570	U
1	1	1576	G
1	1	1580	A
1	1	1581	C
1	1	1582	C
1	1	1583	A
1	1	1587	A
1	1	1589	A
1	1	1593	A
1	1	1605	A
1	1	1607	U
1	1	1608	C
1	1	1619	A
1	1	1620	U
1	1	1629	U
1	1	1639	C
1	1	1643	A
1	1	1644	C
1	1	1645	U
1	1	1655	G
1	1	1657	C
1	1	1658	G
1	1	1683	A
1	1	1686	U
1	1	1701	C
1	1	1716	U
1	1	1717	U
1	1	1724	U

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Mol	Chain	Res	Type
1	1	1725	C
1	1	1729	A
1	1	1736	G
1	1	1741	A
1	1	1742	U
1	1	1746	U
1	1	1750	A
1	1	1751	G
1	1	1752	A
1	1	1759	C
1	1	1760	A
1	1	1761	C
1	1	1762	C
1	1	1763	U
1	1	1764	U
1	1	1765	U
1	1	1770	G
1	1	1773	C
1	1	1780	G
1	1	1781	C
1	1	1797	A
1	1	1814	A
1	1	1815	U
1	1	1816	A
1	1	1817	G
1	1	1819	U
1	1	1820	U
1	1	1821	U
1	1	1834	U
1	1	1835	A
1	1	1839	A
1	1	1841	A
1	1	1842	A
1	1	1845	G
1	1	1846	C
1	1	1849	C
1	1	1850	A
1	1	1864	A
1	1	1871	U
1	1	1878	G
1	1	1879	A
1	1	1880	U

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Mol	Chain	Res	Type
1	1	1886	A
1	1	1892	G
1	1	1906	G
1	1	1926	C
1	1	1927	G
1	1	1948	G
1	1	1951	C
1	1	1952	G
1	1	1953	G
1	1	1954	G
1	1	2094	C
1	1	2095	G
1	1	2100	A
1	1	2101	C
1	1	2102	U
1	1	2111	G
1	1	2112	U
1	1	2113	A
1	1	2114	C
1	1	2121	G
1	1	2122	G
1	1	2131	A
1	1	2140	U
1	1	2158	A
1	1	2164	A
1	1	2169	G
1	1	2170	U
1	1	2171	G
1	1	2177	G
1	1	2179	C
1	1	2188	A
1	1	2190	U
1	1	2194	G
1	1	2198	A
1	1	2200	U
1	1	2201	G
1	1	2205	U
1	1	2206	G
1	1	2207	A
1	1	2208	A
1	1	2209	U
1	1	2223	A

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Mol	Chain	Res	Type
1	1	2228	A
1	1	2230	C
1	1	2244	A
1	1	2249	G
1	1	2250	G
1	1	2252	A
1	1	2255	A
1	1	2256	A
1	1	2257	C
1	1	2272	G
1	1	2273	G
1	1	2279	A
1	1	2280	A
1	1	2281	A
1	1	2282	U
1	1	2284	C
1	1	2288	G
1	1	2307	G
1	1	2310	U
1	1	2311	G
1	1	2313	A
1	1	2314	U
1	1	2315	G
1	1	2334	U
1	1	2336	U
1	1	2364	G
1	1	2372	A
1	1	2373	A
1	1	2374	C
1	1	2375	G
1	1	2385	G
1	1	2393	G
1	1	2397	A
1	1	2401	A
1	1	2402	A
1	1	2403	G
1	1	2404	A
1	1	2405	C
1	1	2411	U
1	1	2412	G
1	1	2418	G
1	1	2419	A

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Mol	Chain	Res	Type
1	1	2434	U
1	1	2440	G
1	1	2444	C
1	1	2503	G
1	1	2504	U
1	1	2507	C
1	1	2508	U
1	1	2511	A
1	1	2514	U
1	1	2515	A
1	1	2522	G
1	1	2523	A
1	1	2532	U
1	1	2533	G
1	1	2537	U
1	1	2538	U
1	1	2539	C
1	1	2540	A
1	1	2541	U
1	1	2542	U
1	1	2543	U
1	1	2546	C
1	1	2547	A
1	1	2549	G
1	1	2552	C
1	1	2554	A
1	1	2555	G
1	1	2559	U
1	1	2561	A
1	1	2569	A
1	1	2570	U
1	1	2571	U
1	1	2572	C
1	1	2573	G
1	1	2574	G
1	1	2576	G
1	1	2581	U
1	1	2585	G
1	1	2593	A
1	1	2594	C
1	1	2606	G
1	1	2607	G

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Mol	Chain	Res	Type
1	1	2614	G
1	1	2619	G
1	1	2636	A
1	1	2638	C
1	1	2652	U
1	1	2656	A
1	1	2658	G
1	1	2673	A
1	1	2674	A
1	1	2675	C
1	1	2677	G
1	1	2681	U
1	1	2689	A
1	1	2691	A
1	1	2694	A
1	1	2696	A
1	1	2705	A
1	1	2714	G
1	1	2719	U
1	1	2720	G
1	1	2723	U
1	1	2728	G
1	1	2737	C
1	1	2752	U
1	1	2753	G
1	1	2760	C
1	1	2766	U
1	1	2769	A
1	1	2772	C
1	1	2773	C
1	1	2776	C
1	1	2777	G
1	1	2778	G
1	1	2796	G
1	1	2799	A
1	1	2800	G
1	1	2801	A
1	1	2802	A
1	1	2803	A
1	1	2810	C
1	1	2814	G
1	1	2815	G

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Mol	Chain	Res	Type
1	1	2816	G
1	1	2817	A
1	1	2818	U
1	1	2819	A
1	1	2836	C
1	1	2839	G
1	1	2842	U
1	1	2845	A
1	1	2847	A
1	1	2853	A
1	1	2860	U
1	1	2868	U
1	1	2871	G
1	1	2872	A
1	1	2875	U
1	1	2876	C
1	1	2887	A
1	1	2896	A
1	1	2898	G
1	1	2899	C
1	1	2914	G
1	1	2923	U
1	1	2935	U
1	1	2936	A
1	1	2942	C
1	1	2946	A
1	1	2947	G
1	1	2965	U
1	1	2971	A
1	1	2973	G
1	1	2983	C
1	1	2985	C
1	1	2986	U
1	1	2987	A
1	1	2990	G
1	1	2997	G
1	1	3011	A
1	1	3012	A
1	1	3030	G
1	1	3046	A
1	1	3057	U
1	1	3059	G

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Mol	Chain	Res	Type
1	1	3078	U
1	1	3079	U
1	1	3080	G
1	1	3086	A
1	1	3092	C
1	1	3094	A
1	1	3101	G
1	1	3117	C
1	1	3120	C
1	1	3122	A
1	1	3128	G
1	1	3129	A
1	1	3130	A
1	1	3131	U
1	1	3142	A
1	1	3143	C
1	1	3152	U
1	1	3153	U
1	1	3154	C
1	1	3155	U
1	1	3156	U
1	1	3157	U
1	1	3164	C
1	1	3165	A
1	1	3168	A
1	1	3172	A
1	1	3173	G
1	1	3174	A
1	1	3176	G
1	1	3179	U
1	1	3181	C
1	1	3187	A
1	1	3195	U
1	1	3196	U
1	1	3206	C
1	1	3207	U
1	1	3210	A
1	1	3217	C
1	1	3218	A
1	1	3219	G
1	1	3234	A
1	1	3235	C

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Mol	Chain	Res	Type
1	1	3244	A
1	1	3245	A
1	1	3246	G
1	1	3247	G
1	1	3256	G
1	1	3259	U
1	1	3270	U
1	1	3273	A
1	1	3276	G
1	1	3277	U
1	1	3279	A
1	1	3280	U
1	1	3281	U
1	1	3286	G
1	1	3288	G
1	1	3289	G
1	1	3293	U
1	1	3294	A
1	1	3295	A
1	1	3303	G
1	1	3304	U
1	1	3307	A
1	1	3316	A
1	1	3318	G
1	1	3320	A
1	1	3323	A
1	1	3335	A
1	1	3341	U
1	1	3342	A
1	1	3344	A
1	1	3345	G
1	1	3346	U
1	1	3347	A
1	1	3349	C
1	1	3351	U
1	1	3352	U
1	1	3353	G
1	1	3354	U
1	1	3355	U
1	1	3358	U
1	1	3359	A
1	1	3360	C

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Mol	Chain	Res	Type
1	1	3363	U
1	1	3368	U
1	1	3369	G
1	1	3375	A
1	1	3376	A
1	1	3378	C
1	1	3382	U
1	1	3383	G
1	1	3384	U
1	1	3386	G
1	1	3389	U
1	1	3396	U
2	3	5	G
2	3	7	G
2	3	10	C
2	3	13	A
2	3	22	A
2	3	29	C
2	3	41	G
2	3	49	G
2	3	51	A
2	3	53	U
2	3	54	U
2	3	55	A
2	3	65	G
2	3	73	C
2	3	74	C
2	3	75	G
2	3	76	A
2	3	91	G
2	3	95	A
2	3	102	A
2	3	112	G
2	3	114	U
3	4	2	A
3	4	20	U
3	4	23	U
3	4	34	U
3	4	35	C
3	4	39	G
3	4	43	A
3	4	51	G

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Mol	Chain	Res	Type
3	4	59	A
3	4	62	C
3	4	63	G
3	4	75	G
3	4	84	C
3	4	85	G
3	4	86	U
3	4	87	G
3	4	90	U
3	4	95	G
3	4	104	A
3	4	105	A
3	4	106	C
3	4	110	C
3	4	111	A
3	4	113	U
3	4	120	C
3	4	125	U
3	4	126	A
3	4	128	U
3	4	146	U
3	4	148	G
3	4	151	C
3	4	152	G
3	4	155	A
3	4	156	U
3	4	157	U
3	4	158	U
45	2	2	A
45	2	4	C
45	2	17	C
45	2	25	C
45	2	26	A
45	2	27	U
45	2	34	G
45	2	39	A
45	2	42	G
45	2	45	U
45	2	46	A
45	2	47	A
45	2	50	C
45	2	57	G

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Mol	Chain	Res	Type
45	2	59	C
45	2	60	U
45	2	67	A
45	2	68	A
45	2	69	G
45	2	72	A
45	2	73	U
45	2	74	U
45	2	75	U
45	2	76	A
45	2	77	U
45	2	95	G
45	2	100	A
45	2	104	A
45	2	105	A
45	2	106	U
45	2	111	U
45	2	114	C
45	2	140	A
45	2	141	U
45	2	144	U
45	2	145	A
45	2	146	U
45	2	153	G
45	2	159	U
45	2	160	C
45	2	178	U
45	2	179	A
45	2	181	A
45	2	185	U
45	2	186	C
45	2	190	C
45	2	191	C
45	2	194	U
45	2	195	G
45	2	196	G
45	2	197	A
45	2	198	A
45	2	199	G
45	2	200	A
45	2	215	A
45	2	218	A

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Mol	Chain	Res	Type
45	2	219	A
45	2	222	A
45	2	226	A
45	2	227	U
45	2	228	G
45	2	229	U
45	2	230	C
45	2	231	U
45	2	233	C
45	2	234	G
45	2	235	G
45	2	238	U
45	2	239	C
45	2	240	U
45	2	241	U
45	2	242	U
45	2	250	C
45	2	260	U
45	2	261	U
45	2	262	U
45	2	265	A
45	2	266	A
45	2	267	U
45	2	271	A
45	2	272	U
45	2	273	G
45	2	275	C
45	2	276	C
45	2	277	U
45	2	278	U
45	2	279	G
45	2	280	U
45	2	281	G
45	2	288	A
45	2	290	G
45	2	299	A
45	2	308	C
45	2	309	C
45	2	314	C
45	2	316	A
45	2	320	U
45	2	321	C

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Mol	Chain	Res	Type
45	2	322	G
45	2	333	A
45	2	337	G
45	2	338	C
45	2	341	A
45	2	352	A
45	2	359	A
45	2	360	A
45	2	361	C
45	2	370	A
45	2	380	U
45	2	390	G
45	2	393	C
45	2	399	A
45	2	400	A
45	2	401	A
45	2	402	C
45	2	404	G
45	2	409	C
45	2	412	A
45	2	416	A
45	2	418	G
45	2	424	C
45	2	425	A
45	2	426	G
45	2	428	A
45	2	434	G
45	2	435	C
45	2	437	A
45	2	438	A
45	2	439	U
45	2	444	C
45	2	448	C
45	2	452	A
45	2	459	G
45	2	468	A
45	2	469	C
45	2	475	A
45	2	477	A
45	2	484	C
45	2	485	A
45	2	487	G

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Mol	Chain	Res	Type
45	2	500	C
45	2	502	U
45	2	504	U
45	2	505	A
45	2	506	A
45	2	507	U
45	2	508	U
45	2	510	G
45	2	512	A
45	2	513	U
45	2	515	A
45	2	516	G
45	2	519	C
45	2	527	A
45	2	532	U
45	2	538	A
45	2	539	G
45	2	540	G
45	2	541	A
45	2	542	A
45	2	543	C
45	2	544	A
45	2	545	A
45	2	548	G
45	2	549	G
45	2	554	C
45	2	555	A
45	2	556	A
45	2	557	G
45	2	558	U
45	2	559	C
45	2	565	C
45	2	571	G
45	2	577	G
45	2	579	A
45	2	580	A
45	2	594	A
45	2	595	G
45	2	609	U
45	2	611	U
45	2	619	A
45	2	620	A

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Mol	Chain	Res	Type
45	2	621	A
45	2	622	A
45	2	623	A
45	2	635	A
45	2	639	U
45	2	640	U
45	2	650	U
45	2	652	G
45	2	653	C
45	2	655	G
45	2	656	G
45	2	657	U
45	2	658	C
45	2	677	G
45	2	680	U
45	2	684	A
45	2	685	A
45	2	686	C
45	2	687	G
45	2	688	G
45	2	690	G
45	2	692	C
45	2	693	U
45	2	694	U
45	2	696	C
45	2	697	C
45	2	698	U
45	2	700	C
45	2	701	U
45	2	702	G
45	2	703	G
45	2	704	C
45	2	705	U
45	2	735	C
45	2	736	C
45	2	737	A
45	2	738	G
45	2	741	C
45	2	742	U
45	2	743	U
45	2	754	A
45	2	755	A

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Mol	Chain	Res	Type
45	2	756	A
45	2	757	A
45	2	765	G
45	2	766	U
45	2	774	A
45	2	775	G
45	2	778	G
45	2	781	U
45	2	782	U
45	2	783	G
45	2	784	C
45	2	787	G
45	2	789	A
45	2	794	U
45	2	795	U
45	2	796	A
45	2	803	A
45	2	812	A
45	2	815	G
45	2	816	G
45	2	819	G
45	2	820	U
45	2	821	U
45	2	823	G
45	2	829	A
45	2	831	U
45	2	832	U
45	2	833	U
45	2	835	U
45	2	836	U
45	2	837	G
45	2	846	G
45	2	852	C
45	2	854	U
45	2	856	A
45	2	857	U
45	2	860	U
45	2	863	A
45	2	873	U
45	2	886	U
45	2	898	A
45	2	906	A

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Mol	Chain	Res	Type
45	2	912	U
45	2	914	G
45	2	915	A
45	2	921	U
45	2	926	A
45	2	933	A
45	2	935	U
45	2	942	G
45	2	944	A
45	2	951	A
45	2	960	U
45	2	992	A
45	2	993	A
45	2	996	U
45	2	997	G
45	2	1003	A
45	2	1004	U
45	2	1005	A
45	2	1010	C
45	2	1020	A
45	2	1021	C
45	2	1025	A
45	2	1026	A
45	2	1028	C
45	2	1029	U
45	2	1039	A
45	2	1040	G
45	2	1052	U
45	2	1053	G
45	2	1055	U
45	2	1056	U
45	2	1057	U
45	2	1058	U
45	2	1059	U
45	2	1060	U
45	2	1061	A
45	2	1064	G
45	2	1075	C
45	2	1076	A
45	2	1079	U
45	2	1081	A
45	2	1082	C

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Mol	Chain	Res	Type
45	2	1085	G
45	2	1092	A
45	2	1095	U
45	2	1096	C
45	2	1097	U
45	2	1100	G
45	2	1101	G
45	2	1109	G
45	2	1138	A
45	2	1146	G
45	2	1150	G
45	2	1151	A
45	2	1155	G
45	2	1157	A
45	2	1158	C
45	2	1160	A
45	2	1164	G
45	2	1167	G
45	2	1175	U
45	2	1185	U
45	2	1194	A
45	2	1196	A
45	2	1197	C
45	2	1198	G
45	2	1199	G
45	2	1200	G
45	2	1202	A
45	2	1207	C
45	2	1208	A
45	2	1209	C
45	2	1217	A
45	2	1218	G
45	2	1226	A
45	2	1227	A
45	2	1228	G
45	2	1229	G
45	2	1244	A
45	2	1245	G
45	2	1250	U
45	2	1251	U
45	2	1259	U
45	2	1284	C

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Mol	Chain	Res	Type
45	2	1287	A
45	2	1288	G
45	2	1301	U
45	2	1311	U
45	2	1312	A
45	2	1314	U
45	2	1315	U
45	2	1321	A
45	2	1337	A
45	2	1339	C
45	2	1340	U
45	2	1341	A
45	2	1344	A
45	2	1345	A
45	2	1349	G
45	2	1354	G
45	2	1360	A
45	2	1361	U
45	2	1363	U
45	2	1364	G
45	2	1369	U
45	2	1370	U
45	2	1371	A
45	2	1372	U
45	2	1378	U
45	2	1385	G
45	2	1388	A
45	2	1390	U
45	2	1398	U
45	2	1399	C
45	2	1413	U
45	2	1414	U
45	2	1415	U
45	2	1416	G
45	2	1422	A
45	2	1426	C
45	2	1427	A
45	2	1428	G
45	2	1439	C
45	2	1440	C
45	2	1443	U
45	2	1444	A

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Mol	Chain	Res	Type
45	2	1445	G
45	2	1446	A
45	2	1448	G
45	2	1456	C
45	2	1457	C
45	2	1458	G
45	2	1459	C
45	2	1461	C
45	2	1471	A
45	2	1473	U
45	2	1474	G
45	2	1482	C
45	2	1486	G
45	2	1489	U
45	2	1490	C
45	2	1491	U
45	2	1492	A
45	2	1493	A
45	2	1494	C
45	2	1496	U
45	2	1500	C
45	2	1506	G
45	2	1514	U
45	2	1516	A
45	2	1517	U
45	2	1521	G
45	2	1523	G
45	2	1524	A
45	2	1526	A
45	2	1529	C
45	2	1533	C
45	2	1535	U
45	2	1536	G
45	2	1537	C
45	2	1538	U
45	2	1540	G
45	2	1542	G
45	2	1546	G
45	2	1552	U
45	2	1557	U
45	2	1559	A
45	2	1569	A

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Mol	Chain	Res	Type
45	2	1573	A
45	2	1574	G
45	2	1577	A
45	2	1582	U
45	2	1584	G
45	2	1593	A
45	2	1601	G
45	2	1607	G
45	2	1614	A
45	2	1615	C
45	2	1616	G
45	2	1618	C
45	2	1623	C
45	2	1624	C
45	2	1625	C
45	2	1626	U
45	2	1631	A
45	2	1636	C
45	2	1656	U
45	2	1657	U
45	2	1658	G
45	2	1680	G
45	2	1681	A
45	2	1682	U
45	2	1683	C
45	2	1684	U
45	2	1712	A
45	2	1713	G
45	2	1715	G
45	2	1717	G
45	2	1731	A
45	2	1736	G
45	2	1755	A
45	2	1756	A
45	2	1757	G
45	2	1761	U
45	2	1762	A
45	2	1766	A
45	2	1769	U
45	2	1780	G
45	2	1782	A
45	2	1783	C

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Mol	Chain	Res	Type
45	2	1790	A
45	2	1792	G
45	2	1793	G
45	2	1794	A
45	2	1795	U
45	2	1796	C
1	5	15	C
1	5	16	A
1	5	26	A
1	5	28	C
1	5	40	A
1	5	43	A
1	5	49	A
1	5	57	A
1	5	59	G
1	5	60	A
1	5	65	A
1	5	66	A
1	5	73	C
1	5	74	G
1	5	76	G
1	5	92	G
1	5	96	G
1	5	97	U
1	5	99	A
1	5	109	A
1	5	110	G
1	5	111	C
1	5	113	C
1	5	116	A
1	5	121	A
1	5	122	A
1	5	132	C
1	5	133	U
1	5	134	U
1	5	136	G
1	5	146	U
1	5	152	U
1	5	156	G
1	5	157	A
1	5	161	G
1	5	170	G

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Mol	Chain	Res	Type
1	5	171	G
1	5	172	G
1	5	174	C
1	5	175	C
1	5	180	C
1	5	181	U
1	5	182	U
1	5	187	A
1	5	188	U
1	5	190	U
1	5	191	U
1	5	200	C
1	5	210	U
1	5	213	A
1	5	218	G
1	5	219	A
1	5	220	G
1	5	221	A
1	5	231	G
1	5	239	G
1	5	240	U
1	5	241	G
1	5	243	G
1	5	247	C
1	5	248	U
1	5	249	U
1	5	250	U
1	5	251	G
1	5	252	U
1	5	253	A
1	5	254	A
1	5	269	G
1	5	282	G
1	5	283	G
1	5	284	A
1	5	285	A
1	5	286	U
1	5	287	G
1	5	295	A
1	5	299	G
1	5	310	U
1	5	323	A

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Mol	Chain	Res	Type
1	5	329	U
1	5	334	A
1	5	339	C
1	5	349	A
1	5	350	C
1	5	370	U
1	5	376	G
1	5	378	A
1	5	398	A
1	5	399	A
1	5	401	U
1	5	402	A
1	5	403	C
1	5	419	G
1	5	421	G
1	5	422	A
1	5	436	A
1	5	437	G
1	5	439	C
1	5	440	A
1	5	442	G
1	5	443	G
1	5	492	U
1	5	494	G
1	5	495	G
1	5	503	C
1	5	514	G
1	5	515	C
1	5	521	A
1	5	530	G
1	5	535	G
1	5	542	G
1	5	544	C
1	5	545	U
1	5	546	C
1	5	547	G
1	5	548	G
1	5	549	U
1	5	555	U
1	5	557	A
1	5	558	U
1	5	559	A

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Mol	Chain	Res	Type
1	5	565	U
1	5	578	A
1	5	579	G
1	5	581	U
1	5	588	G
1	5	592	A
1	5	603	A
1	5	604	G
1	5	609	G
1	5	610	G
1	5	611	A
1	5	619	A
1	5	620	U
1	5	622	A
1	5	636	C
1	5	649	A
1	5	660	A
1	5	662	U
1	5	676	G
1	5	677	A
1	5	681	U
1	5	683	U
1	5	697	A
1	5	699	A
1	5	702	C
1	5	705	A
1	5	712	G
1	5	715	A
1	5	716	A
1	5	720	A
1	5	725	G
1	5	727	G
1	5	736	A
1	5	751	A
1	5	752	C
1	5	765	C
1	5	766	U
1	5	767	U
1	5	776	U
1	5	777	U
1	5	781	G
1	5	785	G

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Mol	Chain	Res	Type
1	5	786	A
1	5	801	A
1	5	806	A
1	5	816	A
1	5	817	A
1	5	818	C
1	5	820	A
1	5	830	A
1	5	851	C
1	5	860	G
1	5	861	C
1	5	874	U
1	5	879	U
1	5	895	A
1	5	896	A
1	5	907	G
1	5	908	G
1	5	914	A
1	5	916	G
1	5	917	A
1	5	921	A
1	5	924	G
1	5	925	A
1	5	937	G
1	5	944	C
1	5	953	G
1	5	959	C
1	5	960	U
1	5	979	U
1	5	980	A
1	5	981	U
1	5	983	A
1	5	994	G
1	5	1001	G
1	5	1002	A
1	5	1006	A
1	5	1010	G
1	5	1014	U
1	5	1015	U
1	5	1016	C
1	5	1017	C
1	5	1018	G

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Mol	Chain	Res	Type
1	5	1019	G
1	5	1021	G
1	5	1022	U
1	5	1023	C
1	5	1024	G
1	5	1033	U
1	5	1035	G
1	5	1041	U
1	5	1047	A
1	5	1049	C
1	5	1051	U
1	5	1064	A
1	5	1065	A
1	5	1071	U
1	5	1072	G
1	5	1081	U
1	5	1082	U
1	5	1083	G
1	5	1084	A
1	5	1085	A
1	5	1092	C
1	5	1093	A
1	5	1094	U
1	5	1095	U
1	5	1096	U
1	5	1097	G
1	5	1098	A
1	5	1103	A
1	5	1104	G
1	5	1117	G
1	5	1131	G
1	5	1140	G
1	5	1141	C
1	5	1143	A
1	5	1152	G
1	5	1153	A
1	5	1159	A
1	5	1160	C
1	5	1161	G
1	5	1177	G
1	5	1179	A
1	5	1180	A

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Mol	Chain	Res	Type
1	5	1181	U
1	5	1182	A
1	5	1191	U
1	5	1201	C
1	5	1202	A
1	5	1209	G
1	5	1210	U
1	5	1211	U
1	5	1221	A
1	5	1222	G
1	5	1225	A
1	5	1232	C
1	5	1235	U
1	5	1236	G
1	5	1237	G
1	5	1239	C
1	5	1241	U
1	5	1242	G
1	5	1243	G
1	5	1244	A
1	5	1245	A
1	5	1246	G
1	5	1252	A
1	5	1258	U
1	5	1259	A
1	5	1261	G
1	5	1262	G
1	5	1263	A
1	5	1264	G
1	5	1285	G
1	5	1295	G
1	5	1299	U
1	5	1307	G
1	5	1308	A
1	5	1309	U
1	5	1311	G
1	5	1313	G
1	5	1324	U
1	5	1330	A
1	5	1331	U
1	5	1332	A
1	5	1337	A

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Mol	Chain	Res	Type
1	5	1345	G
1	5	1348	U
1	5	1349	G
1	5	1355	A
1	5	1356	U
1	5	1357	G
1	5	1359	C
1	5	1360	C
1	5	1386	A
1	5	1390	A
1	5	1399	A
1	5	1400	G
1	5	1417	G
1	5	1418	A
1	5	1419	A
1	5	1421	G
1	5	1428	A
1	5	1431	G
1	5	1434	G
1	5	1435	A
1	5	1437	C
1	5	1446	A
1	5	1450	G
1	5	1451	C
1	5	1452	A
1	5	1472	U
1	5	1475	A
1	5	1481	A
1	5	1482	A
1	5	1483	G
1	5	1485	G
1	5	1495	U
1	5	1502	C
1	5	1503	A
1	5	1505	C
1	5	1508	C
1	5	1511	U
1	5	1514	G
1	5	1515	A
1	5	1528	G
1	5	1533	U
1	5	1536	G

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Mol	Chain	Res	Type
1	5	1541	G
1	5	1548	C
1	5	1554	U
1	5	1555	U
1	5	1556	C
1	5	1557	A
1	5	1560	G
1	5	1561	G
1	5	1562	C
1	5	1563	C
1	5	1575	A
1	5	1576	G
1	5	1577	G
1	5	1578	C
1	5	1579	C
1	5	1580	A
1	5	1581	C
1	5	1582	C
1	5	1583	A
1	5	1587	A
1	5	1589	A
1	5	1590	G
1	5	1605	A
1	5	1607	U
1	5	1619	A
1	5	1622	U
1	5	1629	U
1	5	1630	U
1	5	1632	A
1	5	1639	C
1	5	1641	U
1	5	1643	A
1	5	1644	C
1	5	1645	U
1	5	1651	U
1	5	1656	A
1	5	1658	G
1	5	1677	G
1	5	1683	A
1	5	1688	U
1	5	1716	U
1	5	1717	U

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Mol	Chain	Res	Type
1	5	1724	U
1	5	1750	A
1	5	1751	G
1	5	1752	A
1	5	1754	G
1	5	1756	C
1	5	1760	A
1	5	1761	C
1	5	1762	C
1	5	1763	U
1	5	1764	U
1	5	1765	U
1	5	1766	G
1	5	1767	C
1	5	1768	U
1	5	1770	G
1	5	1772	U
1	5	1776	G
1	5	1777	U
1	5	1778	G
1	5	1779	C
1	5	1780	G
1	5	1797	A
1	5	1808	G
1	5	1810	A
1	5	1814	A
1	5	1815	U
1	5	1816	A
1	5	1818	U
1	5	1821	U
1	5	1834	U
1	5	1839	A
1	5	1841	A
1	5	1842	A
1	5	1846	C
1	5	1849	C
1	5	1859	A
1	5	1866	C
1	5	1868	G
1	5	1878	G
1	5	1879	A
1	5	1880	U

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Mol	Chain	Res	Type
1	5	1881	A
1	5	1886	A
1	5	1890	U
1	5	1891	A
1	5	1892	G
1	5	1906	G
1	5	1931	U
1	5	1935	G
1	5	1949	G
1	5	1950	U
1	5	1951	C
1	5	1952	G
1	5	1953	G
1	5	2094	C
1	5	2095	G
1	5	2096	A
1	5	2097	U
1	5	2098	C
1	5	2099	A
1	5	2100	A
1	5	2102	U
1	5	2103	U
1	5	2113	A
1	5	2121	G
1	5	2122	G
1	5	2131	A
1	5	2140	U
1	5	2144	A
1	5	2158	A
1	5	2168	A
1	5	2169	G
1	5	2170	U
1	5	2175	U
1	5	2177	G
1	5	2188	A
1	5	2193	U
1	5	2198	A
1	5	2205	U
1	5	2206	G
1	5	2207	A
1	5	2208	A
1	5	2210	G

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Mol	Chain	Res	Type
1	5	2218	G
1	5	2222	A
1	5	2223	A
1	5	2225	U
1	5	2244	A
1	5	2245	C
1	5	2246	G
1	5	2249	G
1	5	2250	G
1	5	2251	G
1	5	2253	G
1	5	2255	A
1	5	2256	A
1	5	2257	C
1	5	2258	U
1	5	2268	U
1	5	2269	U
1	5	2270	A
1	5	2273	G
1	5	2279	A
1	5	2281	A
1	5	2288	G
1	5	2303	A
1	5	2307	G
1	5	2310	U
1	5	2313	A
1	5	2315	G
1	5	2327	U
1	5	2334	U
1	5	2336	U
1	5	2372	A
1	5	2373	A
1	5	2374	C
1	5	2375	G
1	5	2382	G
1	5	2385	G
1	5	2388	U
1	5	2393	G
1	5	2394	G
1	5	2397	A
1	5	2400	G
1	5	2401	A

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Mol	Chain	Res	Type
1	5	2402	A
1	5	2403	G
1	5	2404	A
1	5	2411	U
1	5	2412	G
1	5	2413	A
1	5	2418	G
1	5	2419	A
1	5	2434	U
1	5	2435	G
1	5	2437	G
1	5	2439	A
1	5	2440	G
1	5	2441	A
1	5	2442	G
1	5	2443	A
1	5	2444	C
1	5	2504	U
1	5	2505	U
1	5	2506	U
1	5	2507	C
1	5	2508	U
1	5	2510	U
1	5	2511	A
1	5	2514	U
1	5	2515	A
1	5	2523	A
1	5	2526	C
1	5	2530	G
1	5	2531	C
1	5	2532	U
1	5	2534	G
1	5	2535	A
1	5	2536	A
1	5	2537	U
1	5	2538	U
1	5	2539	C
1	5	2540	A
1	5	2541	U
1	5	2542	U
1	5	2543	U
1	5	2549	G

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Mol	Chain	Res	Type
1	5	2550	U
1	5	2552	C
1	5	2553	U
1	5	2555	G
1	5	2566	C
1	5	2567	C
1	5	2569	A
1	5	2570	U
1	5	2571	U
1	5	2572	C
1	5	2573	G
1	5	2574	G
1	5	2583	C
1	5	2584	G
1	5	2585	G
1	5	2593	A
1	5	2594	C
1	5	2600	C
1	5	2606	G
1	5	2614	G
1	5	2619	G
1	5	2637	A
1	5	2638	C
1	5	2647	A
1	5	2652	U
1	5	2656	A
1	5	2657	A
1	5	2658	G
1	5	2663	G
1	5	2674	A
1	5	2677	G
1	5	2681	U
1	5	2683	U
1	5	2689	A
1	5	2691	A
1	5	2694	A
1	5	2695	A
1	5	2696	A
1	5	2704	A
1	5	2714	G
1	5	2717	U
1	5	2719	U

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Mol	Chain	Res	Type
1	5	2720	G
1	5	2728	G
1	5	2729	U
1	5	2737	C
1	5	2748	A
1	5	2749	G
1	5	2752	U
1	5	2753	G
1	5	2755	C
1	5	2772	C
1	5	2773	C
1	5	2777	G
1	5	2778	G
1	5	2783	U
1	5	2796	G
1	5	2797	C
1	5	2799	A
1	5	2800	G
1	5	2801	A
1	5	2802	A
1	5	2805	G
1	5	2810	C
1	5	2814	G
1	5	2816	G
1	5	2817	A
1	5	2818	U
1	5	2819	A
1	5	2821	C
1	5	2838	A
1	5	2842	U
1	5	2843	U
1	5	2845	A
1	5	2847	A
1	5	2849	C
1	5	2853	A
1	5	2863	G
1	5	2865	U
1	5	2871	G
1	5	2872	A
1	5	2873	U
1	5	2875	U
1	5	2876	C

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Mol	Chain	Res	Type
1	5	2887	A
1	5	2899	C
1	5	2913	C
1	5	2914	G
1	5	2923	U
1	5	2935	U
1	5	2936	A
1	5	2941	A
1	5	2942	C
1	5	2947	G
1	5	2954	U
1	5	2957	G
1	5	2970	C
1	5	2971	A
1	5	2972	G
1	5	2982	A
1	5	2983	C
1	5	2986	U
1	5	2990	G
1	5	2992	U
1	5	2993	G
1	5	2995	A
1	5	2996	U
1	5	2997	G
1	5	3003	G
1	5	3012	A
1	5	3028	G
1	5	3056	U
1	5	3057	U
1	5	3059	G
1	5	3062	G
1	5	3065	G
1	5	3078	U
1	5	3079	U
1	5	3080	G
1	5	3086	A
1	5	3087	A
1	5	3092	C
1	5	3104	U
1	5	3122	A
1	5	3123	A
1	5	3126	C

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Mol	Chain	Res	Type
1	5	3129	A
1	5	3131	U
1	5	3142	A
1	5	3143	C
1	5	3145	C
1	5	3153	U
1	5	3154	C
1	5	3155	U
1	5	3156	U
1	5	3157	U
1	5	3158	G
1	5	3159	C
1	5	3164	C
1	5	3165	A
1	5	3166	C
1	5	3168	A
1	5	3172	A
1	5	3173	G
1	5	3174	A
1	5	3176	G
1	5	3181	C
1	5	3187	A
1	5	3188	G
1	5	3195	U
1	5	3196	U
1	5	3197	G
1	5	3207	U
1	5	3210	A
1	5	3217	C
1	5	3218	A
1	5	3219	G
1	5	3223	A
1	5	3224	G
1	5	3227	A
1	5	3229	G
1	5	3233	C
1	5	3234	A
1	5	3238	G
1	5	3245	A
1	5	3246	G
1	5	3247	G
1	5	3253	G

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Mol	Chain	Res	Type
1	5	3258	U
1	5	3259	U
1	5	3260	G
1	5	3265	C
1	5	3266	G
1	5	3268	A
1	5	3269	U
1	5	3270	U
1	5	3273	A
1	5	3275	U
1	5	3276	G
1	5	3277	U
1	5	3278	C
1	5	3281	U
1	5	3282	U
1	5	3285	C
1	5	3286	G
1	5	3287	U
1	5	3288	G
1	5	3294	A
1	5	3295	A
1	5	3304	U
1	5	3318	G
1	5	3319	U
1	5	3320	A
1	5	3322	A
1	5	3335	A
1	5	3341	U
1	5	3342	A
1	5	3345	G
1	5	3350	C
1	5	3351	U
1	5	3352	U
1	5	3354	U
1	5	3355	U
1	5	3356	G
1	5	3358	U
1	5	3368	U
1	5	3369	G
1	5	3378	C
1	5	3382	U
1	5	3383	G

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Mol	Chain	Res	Type
1	5	3389	U
1	5	3390	G
1	5	3396	U
2	7	7	G
2	7	13	A
2	7	22	A
2	7	33	U
2	7	41	G
2	7	53	U
2	7	54	U
2	7	55	A
2	7	59	U
2	7	65	G
2	7	73	C
2	7	74	C
2	7	75	G
2	7	76	A
2	7	89	G
2	7	93	C
2	7	94	C
2	7	99	G
2	7	102	A
2	7	108	A
2	7	110	G
2	7	112	G
2	7	114	U
2	7	121	U
3	8	11	C
3	8	21	C
3	8	34	U
3	8	35	C
3	8	48	A
3	8	53	A
3	8	59	A
3	8	62	C
3	8	63	G
3	8	70	G
3	8	78	G
3	8	79	A
3	8	80	A
3	8	81	U
3	8	83	C

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Mol	Chain	Res	Type
3	8	84	C
3	8	86	U
3	8	87	G
3	8	91	C
3	8	92	A
3	8	95	G
3	8	97	A
3	8	100	U
3	8	104	A
3	8	105	A
3	8	106	C
3	8	107	G
3	8	109	A
3	8	111	A
3	8	113	U
3	8	114	G
3	8	116	G
3	8	117	C
3	8	123	G
3	8	125	U
3	8	126	A
3	8	127	U
3	8	138	A
3	8	152	G
3	8	155	A
3	8	156	U
3	8	157	U
3	8	158	U
45	6	2	A
45	6	4	C
45	6	13	C
45	6	17	C
45	6	23	G
45	6	25	C
45	6	26	A
45	6	27	U
45	6	34	G
45	6	40	A
45	6	42	G
45	6	47	A
45	6	57	G
45	6	61	A

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Mol	Chain	Res	Type
45	6	63	G
45	6	66	U
45	6	67	A
45	6	68	A
45	6	69	G
45	6	70	C
45	6	71	A
45	6	72	A
45	6	73	U
45	6	74	U
45	6	75	U
45	6	76	A
45	6	77	U
45	6	78	A
45	6	84	A
45	6	94	U
45	6	103	A
45	6	104	A
45	6	114	C
45	6	115	G
45	6	128	U
45	6	130	C
45	6	137	U
45	6	138	A
45	6	140	A
45	6	141	U
45	6	142	G
45	6	143	G
45	6	144	U
45	6	145	A
45	6	146	U
45	6	153	G
45	6	158	U
45	6	159	U
45	6	166	C
45	6	174	U
45	6	178	U
45	6	179	A
45	6	182	A
45	6	185	U
45	6	186	C
45	6	187	G

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Mol	Chain	Res	Type
45	6	188	A
45	6	190	C
45	6	191	C
45	6	192	U
45	6	193	U
45	6	194	U
45	6	195	G
45	6	196	G
45	6	197	A
45	6	198	A
45	6	199	G
45	6	200	A
45	6	212	U
45	6	215	A
45	6	216	U
45	6	217	A
45	6	218	A
45	6	219	A
45	6	220	A
45	6	221	A
45	6	224	C
45	6	226	A
45	6	227	U
45	6	228	G
45	6	230	C
45	6	232	U
45	6	233	C
45	6	234	G
45	6	235	G
45	6	236	A
45	6	238	U
45	6	239	C
45	6	240	U
45	6	242	U
45	6	246	G
45	6	249	U
45	6	250	C
45	6	261	U
45	6	265	A
45	6	266	A
45	6	270	C
45	6	271	A

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Mol	Chain	Res	Type
45	6	272	U
45	6	273	G
45	6	275	C
45	6	277	U
45	6	278	U
45	6	280	U
45	6	281	G
45	6	287	G
45	6	295	A
45	6	299	A
45	6	302	U
45	6	308	C
45	6	314	C
45	6	316	A
45	6	319	U
45	6	320	U
45	6	321	C
45	6	322	G
45	6	323	A
45	6	333	A
45	6	337	G
45	6	338	C
45	6	343	C
45	6	345	U
45	6	352	A
45	6	359	A
45	6	360	A
45	6	361	C
45	6	364	G
45	6	369	A
45	6	380	U
45	6	390	G
45	6	400	A
45	6	401	A
45	6	402	C
45	6	404	G
45	6	416	A
45	6	418	G
45	6	419	G
45	6	424	C
45	6	425	A
45	6	426	G

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Mol	Chain	Res	Type
45	6	428	A
45	6	434	G
45	6	437	A
45	6	439	U
45	6	443	C
45	6	444	C
45	6	448	C
45	6	452	A
45	6	454	U
45	6	455	C
45	6	464	A
45	6	468	A
45	6	475	A
45	6	477	A
45	6	480	G
45	6	484	C
45	6	486	G
45	6	504	U
45	6	505	A
45	6	506	A
45	6	507	U
45	6	508	U
45	6	510	G
45	6	511	A
45	6	512	A
45	6	513	U
45	6	515	A
45	6	516	G
45	6	518	A
45	6	519	C
45	6	520	A
45	6	521	A
45	6	526	A
45	6	527	A
45	6	532	U
45	6	533	U
45	6	538	A
45	6	539	G
45	6	542	A
45	6	543	C
45	6	548	G
45	6	549	G

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Mol	Chain	Res	Type
45	6	555	A
45	6	556	A
45	6	557	G
45	6	558	U
45	6	559	C
45	6	565	C
45	6	568	G
45	6	571	G
45	6	574	G
45	6	578	U
45	6	579	A
45	6	580	A
45	6	583	C
45	6	593	U
45	6	594	A
45	6	595	G
45	6	606	A
45	6	609	U
45	6	610	G
45	6	611	U
45	6	617	U
45	6	619	A
45	6	620	A
45	6	622	A
45	6	623	A
45	6	624	G
45	6	630	A
45	6	639	U
45	6	645	C
45	6	650	U
45	6	651	G
45	6	652	G
45	6	653	C
45	6	677	G
45	6	678	A
45	6	679	U
45	6	680	U
45	6	681	U
45	6	682	C
45	6	683	C
45	6	684	A
45	6	685	A

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Mol	Chain	Res	Type
45	6	687	G
45	6	691	C
45	6	696	C
45	6	701	U
45	6	702	G
45	6	704	C
45	6	708	C
45	6	730	G
45	6	731	C
45	6	740	A
45	6	742	U
45	6	751	G
45	6	754	A
45	6	755	A
45	6	756	A
45	6	765	G
45	6	767	U
45	6	771	A
45	6	774	A
45	6	775	G
45	6	779	U
45	6	780	A
45	6	782	U
45	6	783	G
45	6	787	G
45	6	789	A
45	6	793	A
45	6	794	U
45	6	795	U
45	6	803	A
45	6	810	G
45	6	811	A
45	6	812	A
45	6	814	A
45	6	815	G
45	6	816	G
45	6	821	U
45	6	822	U
45	6	823	G
45	6	825	U
45	6	826	U
45	6	828	U

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Mol	Chain	Res	Type
45	6	829	A
45	6	830	U
45	6	831	U
45	6	832	U
45	6	833	U
45	6	834	G
45	6	835	U
45	6	855	A
45	6	856	A
45	6	861	U
45	6	862	A
45	6	863	A
45	6	864	U
45	6	865	A
45	6	886	U
45	6	892	A
45	6	893	U
45	6	906	A
45	6	913	G
45	6	914	G
45	6	933	A
45	6	935	U
45	6	942	G
45	6	943	C
45	6	944	A
45	6	945	U
45	6	959	U
45	6	960	U
45	6	966	A
45	6	969	C
45	6	970	A
45	6	971	A
45	6	983	A
45	6	988	A
45	6	992	A
45	6	993	A
45	6	1003	A
45	6	1004	U
45	6	1005	A
45	6	1021	C
45	6	1026	A
45	6	1028	C

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Mol	Chain	Res	Type
45	6	1029	U
45	6	1039	A
45	6	1040	G
45	6	1042	G
45	6	1051	G
45	6	1052	U
45	6	1053	G
45	6	1057	U
45	6	1058	U
45	6	1059	U
45	6	1060	U
45	6	1061	A
45	6	1062	A
45	6	1072	C
45	6	1074	G
45	6	1076	A
45	6	1081	A
45	6	1082	C
45	6	1083	G
45	6	1091	A
45	6	1092	A
45	6	1095	U
45	6	1096	C
45	6	1097	U
45	6	1098	U
45	6	1100	G
45	6	1138	A
45	6	1150	G
45	6	1151	A
45	6	1155	G
45	6	1158	C
45	6	1159	C
45	6	1160	A
45	6	1164	G
45	6	1167	G
45	6	1185	U
45	6	1194	A
45	6	1196	A
45	6	1199	G
45	6	1200	G
45	6	1202	A
45	6	1208	A

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Mol	Chain	Res	Type
45	6	1217	A
45	6	1218	G
45	6	1223	A
45	6	1226	A
45	6	1227	A
45	6	1229	G
45	6	1232	U
45	6	1236	A
45	6	1239	U
45	6	1240	U
45	6	1241	G
45	6	1243	G
45	6	1244	A
45	6	1245	G
45	6	1246	C
45	6	1256	A
45	6	1257	U
45	6	1258	U
45	6	1275	A
45	6	1285	U
45	6	1286	U
45	6	1289	U
45	6	1291	G
45	6	1307	U
45	6	1314	U
45	6	1315	U
45	6	1316	G
45	6	1321	A
45	6	1337	A
45	6	1338	C
45	6	1341	A
45	6	1344	A
45	6	1345	A
45	6	1354	G
45	6	1361	U
45	6	1362	U
45	6	1363	U
45	6	1364	G
45	6	1370	U
45	6	1371	A
45	6	1372	U
45	6	1373	C

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Mol	Chain	Res	Type
45	6	1382	A
45	6	1390	U
45	6	1393	C
45	6	1396	U
45	6	1398	U
45	6	1399	C
45	6	1400	A
45	6	1402	G
45	6	1413	U
45	6	1414	U
45	6	1415	U
45	6	1424	A
45	6	1427	A
45	6	1428	G
45	6	1440	C
45	6	1445	G
45	6	1446	A
45	6	1459	C
45	6	1461	C
45	6	1465	C
45	6	1466	G
45	6	1469	A
45	6	1471	A
45	6	1481	C
45	6	1482	C
45	6	1486	G
45	6	1490	C
45	6	1491	U
45	6	1492	A
45	6	1493	A
45	6	1506	G
45	6	1514	U
45	6	1516	A
45	6	1517	U
45	6	1521	G
45	6	1523	G
45	6	1524	A
45	6	1535	U
45	6	1536	G
45	6	1537	C
45	6	1538	U
45	6	1539	G

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Mol	Chain	Res	Type
45	6	1540	G
45	6	1554	U
45	6	1557	U
45	6	1559	A
45	6	1569	A
45	6	1572	G
45	6	1573	A
45	6	1574	G
45	6	1575	G
45	6	1582	U
45	6	1584	G
45	6	1590	G
45	6	1596	C
45	6	1601	G
45	6	1607	G
45	6	1616	G
45	6	1629	G
45	6	1631	A
45	6	1637	C
45	6	1638	G
45	6	1657	U
45	6	1658	G
45	6	1666	U
45	6	1680	G
45	6	1681	A
45	6	1684	U
45	6	1688	U
45	6	1689	A
45	6	1707	A
45	6	1708	U
45	6	1712	A
45	6	1715	G
45	6	1717	G
45	6	1732	A
45	6	1736	G
45	6	1755	A
45	6	1756	A
45	6	1760	G
45	6	1762	A
45	6	1766	A
45	6	1767	G
45	6	1769	U

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Mol	Chain	Res	Type
45	6	1780	G
45	6	1782	A
45	6	1783	C
45	6	1790	A
45	6	1792	G
45	6	1793	G
45	6	1794	A
45	6	1796	C
45	6	1799	U
45	6	1800	A

All (295) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1	13	A
1	1	169	U
1	1	210	U
1	1	239	G
1	1	240	U
1	1	518	G
1	1	594	U
1	1	603	A
1	1	621	A
1	1	637	C
1	1	715	A
1	1	763	G
1	1	896	A
1	1	916	G
1	1	961	C
1	1	979	U
1	1	980	A
1	1	981	U
1	1	993	G
1	1	1015	U
1	1	1017	C
1	1	1064	A
1	1	1097	G
1	1	1103	A
1	1	1220	U
1	1	1285	G
1	1	1307	G
1	1	1317	A

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Mol	Chain	Res	Type
1	1	1329	U
1	1	1331	U
1	1	1348	U
1	1	1349	G
1	1	1352	A
1	1	1355	A
1	1	1484	U
1	1	1554	U
1	1	1562	C
1	1	1568	U
1	1	1580	A
1	1	1607	U
1	1	1716	U
1	1	1724	U
1	1	1815	U
1	1	1816	A
1	1	1820	U
1	1	1845	G
1	1	1846	C
1	1	2101	C
1	1	2112	U
1	1	2205	U
1	1	2208	A
1	1	2227	C
1	1	2249	G
1	1	2256	A
1	1	2281	A
1	1	2372	A
1	1	2400	G
1	1	2418	G
1	1	2513	U
1	1	2522	G
1	1	2537	U
1	1	2538	U
1	1	2541	U
1	1	2554	A
1	1	2570	U
1	1	2585	G
1	1	2593	A
1	1	2677	G
1	1	2772	C
1	1	2801	A

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Mol	Chain	Res	Type
1	1	2817	A
1	1	2818	U
1	1	2875	U
1	1	3056	U
1	1	3078	U
1	1	3121	U
1	1	3195	U
1	1	3218	A
1	1	3245	A
1	1	3269	U
1	1	3280	U
1	1	3317	U
1	1	3344	A
1	1	3350	C
1	1	3353	G
1	1	3375	A
2	3	52	G
3	4	71	A
3	4	85	G
45	2	25	C
45	2	45	U
45	2	68	A
45	2	73	U
45	2	75	U
45	2	76	A
45	2	103	A
45	2	114	C
45	2	139	C
45	2	140	A
45	2	144	U
45	2	158	U
45	2	218	A
45	2	233	C
45	2	278	U
45	2	280	U
45	2	321	C
45	2	417	A
45	2	484	C
45	2	499	U
45	2	501	U
45	2	503	G
45	2	512	A

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Mol	Chain	Res	Type
45	2	539	G
45	2	540	G
45	2	555	A
45	2	558	U
45	2	685	A
45	2	696	C
45	2	697	C
45	2	704	C
45	2	781	U
45	2	782	U
45	2	794	U
45	2	795	U
45	2	831	U
45	2	913	G
45	2	1059	U
45	2	1081	A
45	2	1095	U
45	2	1150	G
45	2	1157	A
45	2	1196	A
45	2	1207	C
45	2	1226	A
45	2	1244	A
45	2	1250	U
45	2	1339	C
45	2	1344	A
45	2	1481	C
45	2	1491	U
45	2	1568	C
45	2	1573	A
45	2	1600	A
45	2	1615	C
45	2	1711	C
45	2	1755	A
45	2	1756	A
45	2	1761	U
1	5	151	A
1	5	242	C
1	5	282	G
1	5	438	A
1	5	545	U
1	5	588	G

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Mol	Chain	Res	Type
1	5	594	U
1	5	602	A
1	5	765	C
1	5	873	C
1	5	916	G
1	5	978	G
1	5	980	A
1	5	993	G
1	5	1064	A
1	5	1103	A
1	5	1152	G
1	5	1160	C
1	5	1192	C
1	5	1200	A
1	5	1238	C
1	5	1241	U
1	5	1307	G
1	5	1329	U
1	5	1354	G
1	5	1355	A
1	5	1356	U
1	5	1451	C
1	5	1481	A
1	5	1554	U
1	5	1560	G
1	5	1576	G
1	5	1589	A
1	5	1716	U
1	5	1776	G
1	5	1815	U
1	5	1878	G
1	5	1879	A
1	5	1950	U
1	5	1951	C
1	5	2095	G
1	5	2096	A
1	5	2098	C
1	5	2099	A
1	5	2112	U
1	5	2204	C
1	5	2207	A
1	5	2209	U

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Mol	Chain	Res	Type
1	5	2249	G
1	5	2255	A
1	5	2372	A
1	5	2400	G
1	5	2404	A
1	5	2418	G
1	5	2442	G
1	5	2503	G
1	5	2505	U
1	5	2513	U
1	5	2531	C
1	5	2583	C
1	5	2662	G
1	5	2682	C
1	5	2772	C
1	5	2801	A
1	5	2818	U
1	5	2842	U
1	5	2970	C
1	5	2971	A
1	5	3056	U
1	5	3078	U
1	5	3121	U
1	5	3154	C
1	5	3157	U
1	5	3167	A
1	5	3195	U
1	5	3218	A
1	5	3269	U
1	5	3276	G
1	5	3303	G
1	5	3317	U
1	5	3340	G
1	5	3341	U
1	5	3357	U
2	7	76	A
3	8	82	U
45	6	25	C
45	6	66	U
45	6	73	U
45	6	75	U
45	6	76	A

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Mol	Chain	Res	Type
45	6	103	A
45	6	114	C
45	6	139	C
45	6	144	U
45	6	145	A
45	6	158	U
45	6	187	G
45	6	217	A
45	6	218	A
45	6	237	C
45	6	238	U
45	6	239	C
45	6	272	U
45	6	277	U
45	6	280	U
45	6	319	U
45	6	320	U
45	6	321	C
45	6	322	G
45	6	417	A
45	6	512	A
45	6	525	A
45	6	542	A
45	6	555	A
45	6	557	G
45	6	558	U
45	6	681	U
45	6	682	C
45	6	695	U
45	6	755	A
45	6	794	U
45	6	815	G
45	6	829	A
45	6	831	U
45	6	832	U
45	6	834	G
45	6	914	G
45	6	1051	G
45	6	1058	U
45	6	1081	A
45	6	1097	U
45	6	1185	U

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Mol	Chain	Res	Type
45	6	1238	A
45	6	1244	A
45	6	1255	G
45	6	1344	A
45	6	1481	C
45	6	1490	C
45	6	1491	U
45	6	1535	U
45	6	1537	C
45	6	1568	C
45	6	1573	A
45	6	1600	A
45	6	1615	C
45	6	1637	C
45	6	1657	U

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2153 ligands modelled in this entry, 2084 are monoatomic - leaving 69 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	LLL	5	4156	-	31,33,33	0.33	0	33,49,49	1.35	4 (12%)
85	LLL	1	3994	-	31,33,33	0.32	0	33,49,49	1.19	3 (9%)
85	LLL	6	2171	-	31,33,33	0.29	0	33,49,49	1.15	1 (3%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	LLL	7	232	-	31,33,33	0.33	0	33,49,49	0.91	2 (6%)
85	LLL	5	4175	-	31,33,33	0.34	0	33,49,49	1.49	3 (9%)
85	LLL	6	2175	-	31,33,33	0.36	0	33,49,49	1.41	2 (6%)
85	LLL	6	2167	-	31,33,33	0.35	0	33,49,49	2.01	5 (15%)
85	LLL	1	3998	-	31,33,33	0.28	0	33,49,49	0.76	1 (3%)
85	LLL	1	4003	-	31,33,33	0.32	0	33,49,49	1.42	3 (9%)
85	LLL	1	4004	-	31,33,33	0.35	0	33,49,49	1.09	1 (3%)
85	LLL	1	3997	-	31,33,33	0.31	0	33,49,49	1.25	3 (9%)
85	LLL	5	4158	-	31,33,33	0.33	0	33,49,49	2.01	5 (15%)
85	LLL	6	2170	-	31,33,33	0.28	0	33,49,49	1.30	2 (6%)
85	LLL	5	4152	-	31,33,33	0.36	0	33,49,49	1.52	2 (6%)
85	LLL	5	4155	-	31,33,33	0.33	0	33,49,49	1.06	2 (6%)
85	LLL	8	222	-	31,33,33	0.30	0	33,49,49	0.82	1 (3%)
85	LLL	6	2169	-	31,33,33	0.27	0	33,49,49	0.91	2 (6%)
85	LLL	3	220	-	31,33,33	0.34	0	33,49,49	1.52	3 (9%)
85	LLL	5	4151	-	31,33,33	0.37	0	33,49,49	1.49	2 (6%)
85	LLL	5	4157	-	31,33,33	0.32	0	33,49,49	1.17	2 (6%)
85	LLL	5	4162	-	31,33,33	0.33	0	33,49,49	0.87	1 (3%)
85	LLL	5	4169	-	31,33,33	0.28	0	33,49,49	1.54	4 (12%)
85	LLL	6	2166	-	31,33,33	0.30	0	33,49,49	1.16	4 (12%)
85	LLL	6	2165	-	31,33,33	0.35	0	33,49,49	1.16	2 (6%)
85	LLL	5	4166	-	31,33,33	0.29	0	33,49,49	1.18	2 (6%)
85	LLL	5	4164	-	31,33,33	0.32	0	33,49,49	1.97	3 (9%)
85	LLL	1	4001	-	31,33,33	0.31	0	33,49,49	1.10	2 (6%)
85	LLL	2	2045	-	31,33,33	0.37	0	33,49,49	1.56	4 (12%)
85	LLL	5	4154	-	31,33,33	0.34	0	33,49,49	0.72	0
85	LLL	1	3989	-	31,33,33	0.39	0	33,49,49	1.46	3 (9%)
85	LLL	5	4159	-	31,33,33	0.34	0	33,49,49	1.08	3 (9%)
85	LLL	1	3995	-	31,33,33	0.31	0	33,49,49	2.12	2 (6%)
85	LLL	5	4160	-	31,33,33	0.34	0	33,49,49	1.88	3 (9%)
85	LLL	1	3996	-	31,33,33	0.31	0	33,49,49	0.93	2 (6%)
85	LLL	2	2044	-	31,33,33	0.32	0	33,49,49	1.53	4 (12%)
85	LLL	5	4161	-	31,33,33	0.39	0	33,49,49	1.28	3 (9%)
85	LLL	6	2168	-	31,33,33	0.28	0	33,49,49	1.34	3 (9%)
85	LLL	5	4172	-	31,33,33	0.35	0	33,49,49	1.43	3 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	LLL	2	2043	-	31,33,33	0.27	0	33,49,49	0.83	4 (12%)
85	LLL	1	3999	-	31,33,33	0.30	0	33,49,49	0.98	3 (9%)
85	LLL	5	4168	-	31,33,33	0.35	0	33,49,49	1.71	4 (12%)
85	LLL	1	3992	-	31,33,33	0.28	0	33,49,49	1.27	2 (6%)
85	LLL	5	4171	-	31,33,33	0.32	0	33,49,49	1.02	1 (3%)
85	LLL	5	4173	-	31,33,33	0.28	0	33,49,49	1.13	3 (9%)
85	LLL	1	4000	-	31,33,33	0.31	0	33,49,49	2.15	5 (15%)
85	LLL	7	233	-	31,33,33	0.31	0	33,49,49	0.96	2 (6%)
85	LLL	4	224	-	31,33,33	0.34	0	33,49,49	1.49	2 (6%)
85	LLL	6	2173	-	31,33,33	0.34	0	33,49,49	1.14	3 (9%)
85	LLL	5	4174	-	31,33,33	0.39	0	33,49,49	1.64	4 (12%)
85	LLL	1	3990	-	31,33,33	0.35	0	33,49,49	1.85	1 (3%)
85	LLL	5	4176	-	31,33,33	0.33	0	33,49,49	1.33	3 (9%)
85	LLL	13	412	-	31,33,33	0.38	0	33,49,49	1.93	3 (9%)
85	LLL	1	4002	-	31,33,33	0.36	0	33,49,49	2.14	3 (9%)
85	LLL	6	2164	-	31,33,33	0.24	0	33,49,49	1.85	2 (6%)
85	LLL	6	2176	-	31,33,33	0.35	0	33,49,49	1.33	3 (9%)
85	LLL	7	231	-	31,33,33	0.33	0	33,49,49	2.08	7 (21%)
85	LLL	5	4163	-	31,33,33	0.31	0	33,49,49	1.07	3 (9%)
85	LLL	6	2172	-	31,33,33	0.32	0	33,49,49	1.18	3 (9%)
85	LLL	5	4167	-	31,33,33	0.32	0	33,49,49	1.03	2 (6%)
85	LLL	5	4178	-	31,33,33	0.34	0	33,49,49	0.89	1 (3%)
85	LLL	6	2174	-	31,33,33	0.38	0	33,49,49	1.33	3 (9%)
85	LLL	5	4153	-	31,33,33	0.33	0	33,49,49	1.81	2 (6%)
85	LLL	L3	404	-	31,33,33	0.32	0	33,49,49	1.36	3 (9%)
85	LLL	1	3993	-	31,33,33	0.29	0	33,49,49	1.53	5 (15%)
85	LLL	5	4165	-	31,33,33	0.38	0	33,49,49	1.06	2 (6%)
85	LLL	5	4177	-	31,33,33	0.34	0	33,49,49	1.87	6 (18%)
85	LLL	8	221	-	31,33,33	0.37	0	33,49,49	1.78	2 (6%)
85	LLL	5	4170	-	31,33,33	0.37	0	33,49,49	1.57	2 (6%)
85	LLL	1	3991	-	31,33,33	0.32	0	33,49,49	0.86	3 (9%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	LLL	5	4156	-	-	4/11/65/65	0/3/3/3
85	LLL	1	3994	-	-	1/11/65/65	0/3/3/3
85	LLL	6	2171	-	-	1/11/65/65	0/3/3/3
85	LLL	7	232	-	-	3/11/65/65	0/3/3/3
85	LLL	5	4175	-	-	1/11/65/65	0/3/3/3
85	LLL	6	2175	-	-	4/11/65/65	1/3/3/3
85	LLL	6	2167	-	-	4/11/65/65	0/3/3/3
85	LLL	1	3998	-	-	2/11/65/65	0/3/3/3
85	LLL	1	4003	-	-	4/11/65/65	2/3/3/3
85	LLL	1	4004	-	-	3/11/65/65	1/3/3/3
85	LLL	1	3997	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4158	-	-	5/11/65/65	0/3/3/3
85	LLL	6	2170	-	-	2/11/65/65	0/3/3/3
85	LLL	5	4152	-	-	5/11/65/65	0/3/3/3
85	LLL	5	4155	-	-	5/11/65/65	1/3/3/3
85	LLL	8	222	-	-	3/11/65/65	2/3/3/3
85	LLL	6	2169	-	-	2/11/65/65	0/3/3/3
85	LLL	3	220	-	-	3/11/65/65	0/3/3/3
85	LLL	5	4151	-	-	8/11/65/65	0/3/3/3
85	LLL	5	4157	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4162	-	-	3/11/65/65	1/3/3/3
85	LLL	5	4169	-	-	2/11/65/65	0/3/3/3
85	LLL	6	2166	-	-	3/11/65/65	0/3/3/3
85	LLL	6	2165	-	-	3/11/65/65	0/3/3/3
85	LLL	5	4166	-	-	3/11/65/65	0/3/3/3
85	LLL	5	4164	-	-	4/11/65/65	0/3/3/3
85	LLL	1	4001	-	-	3/11/65/65	0/3/3/3
85	LLL	2	2045	-	-	7/11/65/65	0/3/3/3
85	LLL	5	4154	-	-	2/11/65/65	0/3/3/3
85	LLL	1	3989	-	-	2/11/65/65	0/3/3/3
85	LLL	5	4159	-	-	1/11/65/65	0/3/3/3
85	LLL	1	3995	-	-	3/11/65/65	0/3/3/3
85	LLL	5	4160	-	-	3/11/65/65	0/3/3/3
85	LLL	1	3996	-	-	3/11/65/65	0/3/3/3
85	LLL	2	2044	-	-	3/11/65/65	1/3/3/3
85	LLL	5	4161	-	-	2/11/65/65	1/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
85	LLL	6	2168	-	-	5/11/65/65	1/3/3/3
85	LLL	5	4172	-	-	5/11/65/65	0/3/3/3
85	LLL	2	2043	-	-	3/11/65/65	1/3/3/3
85	LLL	1	3999	-	-	4/11/65/65	0/3/3/3
85	LLL	5	4168	-	-	0/11/65/65	0/3/3/3
85	LLL	1	3992	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4171	-	-	4/11/65/65	0/3/3/3
85	LLL	5	4173	-	-	2/11/65/65	1/3/3/3
85	LLL	1	4000	-	-	2/11/65/65	0/3/3/3
85	LLL	7	233	-	-	3/11/65/65	2/3/3/3
85	LLL	4	224	-	-	3/11/65/65	0/3/3/3
85	LLL	6	2173	-	-	6/11/65/65	1/3/3/3
85	LLL	5	4174	-	-	3/11/65/65	0/3/3/3
85	LLL	1	3990	-	-	2/11/65/65	0/3/3/3
85	LLL	5	4176	-	-	2/11/65/65	0/3/3/3
85	LLL	l3	412	-	-	0/11/65/65	0/3/3/3
85	LLL	1	4002	-	-	5/11/65/65	0/3/3/3
85	LLL	6	2164	-	-	2/11/65/65	0/3/3/3
85	LLL	6	2176	-	-	3/11/65/65	0/3/3/3
85	LLL	7	231	-	-	4/11/65/65	0/3/3/3
85	LLL	5	4163	-	-	6/11/65/65	2/3/3/3
85	LLL	6	2172	-	-	4/11/65/65	1/3/3/3
85	LLL	5	4167	-	-	2/11/65/65	0/3/3/3
85	LLL	5	4178	-	-	1/11/65/65	0/3/3/3
85	LLL	6	2174	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4153	-	-	4/11/65/65	0/3/3/3
85	LLL	L3	404	-	-	1/11/65/65	0/3/3/3
85	LLL	1	3993	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4165	-	-	1/11/65/65	0/3/3/3
85	LLL	5	4177	-	-	4/11/65/65	0/3/3/3
85	LLL	8	221	-	-	6/11/65/65	0/3/3/3
85	LLL	5	4170	-	-	1/11/65/65	1/3/3/3
85	LLL	1	3991	-	-	2/11/65/65	0/3/3/3

There are no bond length outliers.

All (189) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	1	4002	LLL	C11-O51-C51	11.16	125.50	113.13
85	1	3995	LLL	C11-O51-C51	11.05	125.37	113.13
85	1	4000	LLL	C11-O51-C51	10.82	125.12	113.13
85	1	3990	LLL	C11-O51-C51	9.69	123.86	113.13
85	6	2164	LLL	C11-O51-C51	9.60	123.77	113.13
85	13	412	LLL	C11-O51-C51	9.45	123.60	113.13
85	5	4160	LLL	C11-O51-C51	9.41	123.55	113.13
85	5	4153	LLL	C11-O51-C51	9.22	123.34	113.13
85	5	4164	LLL	C11-O51-C51	9.20	123.32	113.13
85	5	4158	LLL	C11-O51-C51	8.98	123.08	113.13
85	6	2167	LLL	C11-O51-C51	8.74	122.81	113.13
85	5	4168	LLL	C11-O51-C51	8.54	122.59	113.13
85	8	221	LLL	C11-O51-C51	7.94	121.92	113.13
85	5	4170	LLL	C11-O51-C51	7.70	121.66	113.13
85	7	231	LLL	C11-O51-C51	7.50	121.44	113.13
85	5	4152	LLL	C11-O51-C51	7.49	121.43	113.13
85	5	4177	LLL	C11-O51-C51	6.98	120.86	113.13
85	3	220	LLL	C11-O51-C51	6.66	120.51	113.13
85	2	2044	LLL	C11-O51-C51	6.58	120.42	113.13
85	6	2175	LLL	C53-O53-C13	6.20	121.08	111.53
85	L3	404	LLL	C11-O51-C51	6.14	119.94	113.13
85	5	4175	LLL	C11-O51-C51	5.96	119.73	113.13
85	4	224	LLL	C11-O51-C51	5.86	119.62	113.13
85	1	3992	LLL	C11-O51-C51	5.85	119.61	113.13
85	6	2171	LLL	C11-O51-C51	5.82	119.58	113.13
85	5	4151	LLL	C11-O51-C51	5.70	119.44	113.13
85	1	4003	LLL	C11-O51-C51	5.53	119.26	113.13
85	1	3989	LLL	C11-O51-C51	5.52	119.25	113.13
85	1	4004	LLL	C11-O51-C51	5.46	119.18	113.13
85	1	3993	LLL	O11-C11-C21	-5.46	99.36	108.10
85	2	2045	LLL	O11-C42-C32	-5.26	96.64	109.18
85	6	2168	LLL	C53-O53-C13	5.25	119.61	111.53
85	5	4174	LLL	C11-O51-C51	5.16	118.85	113.13
85	6	2170	LLL	C53-O53-C13	5.08	119.36	111.53
85	1	3997	LLL	C11-O51-C51	5.02	118.69	113.13
85	5	4157	LLL	O11-C11-C21	-5.00	100.10	108.10
85	5	4169	LLL	C11-O51-C51	5.00	118.67	113.13
85	5	4169	LLL	C53-O53-C13	4.95	119.15	111.53
85	5	4171	LLL	C53-O53-C13	4.94	119.14	111.53
85	5	4177	LLL	C53-O53-C13	4.93	119.12	111.53
85	6	2165	LLL	C11-O51-C51	4.79	118.43	113.13
85	5	4161	LLL	C11-O51-C51	4.78	118.42	113.13
85	8	221	LLL	C53-O53-C13	4.68	118.74	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	6	2176	LLL	C53-O53-C13	4.68	118.73	111.53
85	5	4176	LLL	C11-O51-C51	4.61	118.24	113.13
85	5	4173	LLL	C11-O51-C51	4.56	118.18	113.13
85	4	224	LLL	C53-O53-C13	4.52	118.49	111.53
85	1	4001	LLL	C11-O51-C51	4.51	118.12	113.13
85	5	4172	LLL	C11-O51-C51	4.49	118.11	113.13
85	7	231	LLL	O11-C42-C32	-4.47	98.51	109.18
85	5	4164	LLL	O11-C42-C32	-4.40	98.67	109.18
85	5	4172	LLL	C53-O53-C13	4.34	118.22	111.53
85	7	231	LLL	O11-C11-C21	-4.34	101.16	108.10
85	5	4156	LLL	C53-O53-C13	4.34	118.21	111.53
85	2	2045	LLL	C53-O53-C13	4.32	118.18	111.53
85	5	4166	LLL	C53-O53-C13	4.31	118.17	111.53
85	6	2174	LLL	C11-O51-C51	4.24	117.83	113.13
85	5	4174	LLL	C53-O53-C13	4.23	118.04	111.53
85	5	4151	LLL	O11-C42-C32	-4.19	99.18	109.18
85	6	2167	LLL	C53-O53-C13	4.18	117.97	111.53
85	1	4003	LLL	C53-O53-C13	4.18	117.96	111.53
85	6	2176	LLL	O11-C42-C32	-4.14	99.30	109.18
85	5	4166	LLL	C11-O51-C51	4.11	117.69	113.13
85	5	4155	LLL	C11-O51-C51	4.05	117.61	113.13
85	5	4165	LLL	C11-O51-C51	4.05	117.61	113.13
85	6	2172	LLL	C53-O53-C13	4.03	117.73	111.53
85	1	3995	LLL	C53-O53-C13	4.01	117.70	111.53
85	5	4175	LLL	C53-O53-C13	3.95	117.61	111.53
85	1	3994	LLL	C53-O53-C13	3.87	117.50	111.53
85	6	2172	LLL	C11-O51-C51	3.86	117.41	113.13
85	6	2169	LLL	C11-O51-C51	3.85	117.39	113.13
85	6	2174	LLL	C53-O53-C13	3.84	117.44	111.53
85	3	220	LLL	O11-C42-C32	-3.82	100.06	109.18
85	7	231	LLL	C53-O53-C13	3.82	117.41	111.53
85	1	3989	LLL	O11-C42-C32	-3.79	100.13	109.18
85	6	2170	LLL	C11-O51-C51	3.78	117.32	113.13
85	5	4172	LLL	O11-C11-C21	3.77	114.13	108.10
85	2	2045	LLL	C11-O51-C51	3.77	117.31	113.13
85	6	2174	LLL	O11-C11-C21	3.76	114.11	108.10
85	5	4158	LLL	O11-C42-C32	-3.72	100.30	109.18
85	5	4162	LLL	C11-O51-C51	3.71	117.24	113.13
85	6	2166	LLL	O11-C42-C32	-3.69	100.39	109.18
85	6	2173	LLL	C11-O51-C51	3.68	117.21	113.13
85	6	2167	LLL	O11-C11-C21	-3.68	102.21	108.10
85	13	412	LLL	O11-C11-C21	3.62	113.88	108.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	4176	LLL	O11-C42-C32	3.62	117.81	109.18
85	5	4167	LLL	C11-O51-C51	3.59	117.11	113.13
85	5	4153	LLL	O11-C42-C32	-3.58	100.64	109.18
85	7	233	LLL	C11-O51-C51	3.57	117.08	113.13
85	5	4174	LLL	O11-C11-C21	-3.50	102.50	108.10
85	5	4178	LLL	C11-O51-C51	3.47	116.97	113.13
85	5	4176	LLL	C32-C22-C12	3.46	116.94	111.02
85	1	3993	LLL	O11-C42-C32	-3.45	100.94	109.18
85	5	4158	LLL	O62-C62-C12	-3.41	101.03	109.18
85	5	4156	LLL	O62-C62-C12	-3.39	101.10	109.18
85	5	4156	LLL	O11-C42-C32	-3.35	101.18	109.18
85	5	4157	LLL	C11-O51-C51	3.33	116.82	113.13
85	5	4177	LLL	O62-C62-C52	3.32	115.66	107.23
85	1	3994	LLL	C11-O51-C51	3.29	116.78	113.13
85	6	2168	LLL	C11-O51-C51	3.28	116.77	113.13
85	6	2166	LLL	C11-O51-C51	3.27	116.75	113.13
85	5	4163	LLL	C11-O51-C51	3.24	116.72	113.13
85	6	2167	LLL	O11-C42-C32	-3.18	101.58	109.18
85	6	2164	LLL	C53-O53-C13	3.13	116.36	111.53
85	5	4163	LLL	O11-C42-C32	-3.13	101.72	109.18
85	6	2166	LLL	C32-C22-C12	-3.11	105.69	111.02
85	5	4169	LLL	C32-C22-C12	3.10	116.34	111.02
85	5	4159	LLL	C11-O51-C51	3.08	116.55	113.13
85	6	2165	LLL	O62-C62-C12	-3.07	101.85	109.18
85	1	4000	LLL	C53-O53-C13	3.07	116.26	111.53
85	7	231	LLL	O62-C62-C12	3.07	116.50	109.18
85	1	3996	LLL	C11-O51-C51	3.07	116.53	113.13
85	1	3993	LLL	C11-O51-C51	3.04	116.50	113.13
85	1	3993	LLL	C32-C22-C12	3.02	116.20	111.02
85	2	2044	LLL	C53-O53-C13	3.01	116.17	111.53
85	1	4001	LLL	C53-O53-C13	3.01	116.16	111.53
85	5	4161	LLL	C53-O53-C13	2.99	116.14	111.53
85	1	3999	LLL	O11-C42-C32	-2.97	102.09	109.18
85	5	4167	LLL	C53-O53-C13	2.96	116.08	111.53
85	5	4160	LLL	O11-C42-C32	-2.94	102.16	109.18
85	2	2045	LLL	O11-C11-C21	-2.94	103.40	108.10
85	6	2175	LLL	O62-C62-C12	-2.90	102.26	109.18
85	5	4159	LLL	C53-O53-C13	2.89	115.99	111.53
85	1	3996	LLL	O11-C11-C21	2.85	112.65	108.10
85	1	4000	LLL	O62-C62-C12	-2.84	102.39	109.18
85	1	3997	LLL	O11-C11-C21	2.83	112.63	108.10
85	5	4161	LLL	O11-C42-C32	-2.80	102.49	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	6	2173	LLL	O62-C62-C12	-2.79	102.53	109.18
85	6	2176	LLL	C11-O51-C51	2.79	116.22	113.13
85	8	222	LLL	C53-O53-C13	2.77	115.80	111.53
85	6	2173	LLL	O11-C42-C32	-2.76	102.60	109.18
85	5	4163	LLL	C53-O53-C13	2.73	115.74	111.53
85	1	4002	LLL	C53-O53-C13	2.73	115.73	111.53
85	7	232	LLL	O11-C42-C32	-2.70	102.72	109.18
85	5	4152	LLL	C53-O53-C13	2.70	115.69	111.53
85	1	3999	LLL	C11-O51-C51	2.68	116.10	113.13
85	1	3998	LLL	O62-C62-C12	-2.65	102.85	109.18
85	1	4002	LLL	O11-C42-C32	-2.65	102.85	109.18
85	1	4000	LLL	O11-C11-C21	-2.65	103.86	108.10
85	1	3991	LLL	O11-C42-C32	-2.64	102.88	109.18
85	6	2169	LLL	C53-O53-C13	2.61	115.55	111.53
85	5	4177	LLL	O11-C42-C52	2.59	113.81	107.23
85	1	3992	LLL	C53-O53-C13	2.58	115.51	111.53
85	5	4173	LLL	C53-O53-C13	2.58	115.51	111.53
85	1	3997	LLL	C53-O53-C13	2.58	115.50	111.53
85	7	231	LLL	C32-C22-C12	2.56	115.40	111.02
85	5	4158	LLL	C62-C52-C42	2.55	114.27	109.11
85	1	3991	LLL	C53-O53-C13	2.52	115.41	111.53
85	2	2044	LLL	O11-C42-C32	-2.52	103.17	109.18
85	2	2043	LLL	C53-O53-C13	2.51	115.39	111.53
85	7	233	LLL	C53-O53-C13	2.50	115.38	111.53
85	5	4158	LLL	C53-O53-C13	2.50	115.38	111.53
85	5	4173	LLL	O11-C42-C32	-2.46	103.30	109.18
85	5	4170	LLL	C53-O53-C13	2.46	115.32	111.53
85	5	4165	LLL	C53-O53-C13	2.46	115.31	111.53
85	L3	404	LLL	C13-C23-C33	2.46	113.30	109.31
85	1	3993	LLL	O62-C62-C12	-2.44	103.36	109.18
85	3	220	LLL	O11-C42-C52	2.41	113.34	107.23
85	2	2044	LLL	O62-C62-C12	-2.39	103.47	109.18
85	5	4177	LLL	C32-C22-C12	-2.39	106.93	111.02
85	7	231	LLL	C41-C51-C61	-2.34	108.35	112.83
85	5	4164	LLL	C53-O53-C13	2.34	115.13	111.53
85	L3	404	LLL	O11-C42-C32	-2.34	103.61	109.18
85	1	4003	LLL	O62-C62-C12	-2.30	103.68	109.18
85	6	2167	LLL	O62-C62-C12	-2.30	103.69	109.18
85	5	4175	LLL	O11-C11-C21	2.29	111.76	108.10
85	5	4168	LLL	O11-C11-C21	2.28	111.75	108.10
85	5	4168	LLL	C13-C23-C33	2.28	113.01	109.31
85	6	2168	LLL	O11-C42-C52	2.23	112.91	107.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	6	2172	LLL	C32-C22-C12	2.23	114.85	111.02
85	1	3989	LLL	C13-C23-C33	2.22	112.91	109.31
85	13	412	LLL	O11-C42-C32	-2.19	103.94	109.18
85	7	232	LLL	C53-O53-C13	2.17	114.87	111.53
85	5	4169	LLL	C62-C52-C42	-2.16	104.72	109.11
85	1	3994	LLL	O62-C62-C12	-2.16	104.02	109.18
85	5	4156	LLL	C32-C22-C12	-2.15	107.34	111.02
85	5	4159	LLL	O11-C42-C32	-2.13	104.09	109.18
85	2	2043	LLL	C11-O51-C51	2.12	115.48	113.13
85	5	4174	LLL	O62-C62-C52	2.12	112.62	107.23
85	5	4177	LLL	O11-C11-C21	-2.10	104.74	108.10
85	1	3999	LLL	C53-O53-C13	2.09	114.75	111.53
85	5	4160	LLL	C41-C51-C61	-2.08	108.86	112.83
85	5	4155	LLL	C53-O53-C13	2.06	114.71	111.53
85	2	2043	LLL	O11-C42-C32	-2.05	104.28	109.18
85	2	2043	LLL	C32-C22-C12	-2.05	107.51	111.02
85	6	2166	LLL	C53-O53-C13	2.03	114.66	111.53
85	5	4168	LLL	C53-O53-C13	2.03	114.66	111.53
85	1	4000	LLL	O11-C42-C32	-2.03	104.34	109.18
85	1	3991	LLL	O62-C62-C12	-2.01	104.39	109.18

There are no chirality outliers.

All (202) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
85	1	3991	LLL	O51-C51-C61-N61
85	1	3993	LLL	C23-C33-N33-C93
85	1	3995	LLL	O51-C51-C61-N61
85	1	3995	LLL	C23-C33-N33-C93
85	1	3996	LLL	C41-C51-C61-N61
85	1	3996	LLL	O51-C51-C61-N61
85	1	3996	LLL	C23-C33-N33-C93
85	1	3997	LLL	C23-C33-N33-C93
85	1	3998	LLL	C23-C33-N33-C93
85	1	3999	LLL	O51-C51-C61-N61
85	1	4000	LLL	O51-C51-C61-N61
85	1	4000	LLL	C23-C33-N33-C93
85	1	4001	LLL	C23-C33-N33-C93
85	1	4002	LLL	C21-C11-O11-C42
85	1	4002	LLL	O51-C51-C61-N61
85	1	4003	LLL	C21-C11-O11-C42
85	1	4003	LLL	C41-C51-C61-N61

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Mol	Chain	Res	Type	Atoms
85	1	4003	LLL	C23-C33-N33-C93
85	1	4004	LLL	C23-C33-N33-C93
85	3	220	LLL	C23-C33-N33-C93
85	4	224	LLL	O51-C51-C61-N61
85	L3	404	LLL	C23-C33-N33-C93
85	2	2043	LLL	C41-C51-C61-N61
85	2	2043	LLL	O51-C51-C61-N61
85	2	2043	LLL	C23-C33-N33-C93
85	2	2044	LLL	O51-C51-C61-N61
85	2	2044	LLL	C23-C33-N33-C93
85	2	2045	LLL	O51-C51-C61-N61
85	2	2045	LLL	C23-C33-N33-C93
85	5	4151	LLL	C41-C51-C61-N61
85	5	4151	LLL	O51-C51-C61-N61
85	5	4151	LLL	C23-C33-N33-C93
85	5	4152	LLL	C21-C11-O11-C42
85	5	4152	LLL	C41-C51-C61-N61
85	5	4152	LLL	O51-C51-C61-N61
85	5	4152	LLL	C23-C33-N33-C93
85	5	4153	LLL	C41-C51-C61-N61
85	5	4153	LLL	O51-C51-C61-N61
85	5	4153	LLL	C23-C33-N33-C93
85	5	4155	LLL	C21-C11-O11-C42
85	5	4155	LLL	O51-C51-C61-N61
85	5	4155	LLL	C23-C33-N33-C93
85	5	4156	LLL	C23-C33-N33-C93
85	5	4157	LLL	C23-C33-N33-C93
85	5	4158	LLL	C41-C51-C61-N61
85	5	4158	LLL	O51-C51-C61-N61
85	5	4158	LLL	C23-C33-N33-C93
85	5	4159	LLL	C23-C33-N33-C93
85	5	4160	LLL	O51-C51-C61-N61
85	5	4160	LLL	C23-C33-N33-C93
85	5	4161	LLL	C23-C33-N33-C93
85	5	4162	LLL	C21-C11-O11-C42
85	5	4162	LLL	O51-C51-C61-N61
85	5	4163	LLL	C21-C11-O11-C42
85	5	4163	LLL	C41-C51-C61-N61
85	5	4163	LLL	O51-C51-C61-N61
85	5	4166	LLL	C23-C33-N33-C93
85	5	4167	LLL	C23-C33-N33-C93
85	5	4171	LLL	O51-C51-C61-N61

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Mol	Chain	Res	Type	Atoms
85	5	4171	LLL	C23-C33-N33-C93
85	5	4172	LLL	C21-C11-O11-C42
85	5	4172	LLL	O51-C51-C61-N61
85	5	4174	LLL	C23-C33-N33-C93
85	5	4176	LLL	C32-C42-O11-C11
85	5	4177	LLL	O51-C51-C61-N61
85	5	4177	LLL	C23-C33-N33-C93
85	7	231	LLL	C12-C62-O62-C13
85	7	231	LLL	C23-C33-N33-C93
85	7	232	LLL	C23-C33-N33-C93
85	8	221	LLL	C21-C11-O11-C42
85	8	221	LLL	C23-C33-N33-C93
85	8	222	LLL	C21-C11-O11-C42
85	8	222	LLL	C23-C33-N33-C93
85	6	2165	LLL	C23-C33-N33-C93
85	6	2166	LLL	O51-C51-C61-N61
85	6	2166	LLL	C23-C33-N33-C93
85	6	2167	LLL	C41-C51-C61-N61
85	6	2167	LLL	C23-C33-N33-C93
85	6	2168	LLL	C21-C11-O11-C42
85	6	2168	LLL	C41-C51-C61-N61
85	6	2168	LLL	O51-C51-C61-N61
85	6	2168	LLL	C23-C33-N33-C93
85	6	2169	LLL	C23-C33-N33-C93
85	6	2170	LLL	O51-C51-C61-N61
85	6	2171	LLL	C23-C33-N33-C93
85	6	2172	LLL	O51-C51-C61-N61
85	6	2172	LLL	C23-C33-N33-C93
85	6	2173	LLL	C21-C11-O11-C42
85	6	2173	LLL	O51-C51-C61-N61
85	6	2173	LLL	C23-C33-N33-C93
85	6	2174	LLL	C23-C33-N33-C93
85	6	2175	LLL	C21-C11-O11-C42
85	6	2175	LLL	C23-C33-N33-C93
85	6	2176	LLL	C23-C33-N33-C93
85	5	4177	LLL	C52-C42-O11-C11
85	6	2173	LLL	C52-C62-O62-C13
85	1	3990	LLL	O51-C11-O11-C42
85	6	2175	LLL	O51-C11-O11-C42
85	1	4002	LLL	O51-C11-O11-C42
85	5	4155	LLL	O51-C11-O11-C42
85	1	3999	LLL	O51-C11-O11-C42

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Mol	Chain	Res	Type	Atoms
85	5	4164	LLL	O51-C11-O11-C42
85	1	3989	LLL	O51-C11-O11-C42
85	5	4153	LLL	O51-C11-O11-C42
85	5	4158	LLL	O53-C13-O62-C62
85	3	220	LLL	C52-C42-O11-C11
85	1	4004	LLL	O51-C11-O11-C42
85	5	4151	LLL	O51-C11-O11-C42
85	5	4177	LLL	O53-C13-O62-C62
85	5	4171	LLL	O53-C13-O62-C62
85	8	221	LLL	C52-C62-O62-C13
85	8	221	LLL	O51-C11-O11-C42
85	6	2168	LLL	O51-C11-O11-C42
85	7	233	LLL	C52-C62-O62-C13
85	5	4172	LLL	C52-C42-O11-C11
85	2	2045	LLL	O53-C13-O62-C62
85	5	4164	LLL	C52-C42-O11-C11
85	5	4158	LLL	C52-C42-O11-C11
85	6	2176	LLL	C52-C42-O11-C11
85	5	4172	LLL	O51-C11-O11-C42
85	2	2045	LLL	C52-C42-O11-C11
85	6	2173	LLL	C52-C42-O11-C11
85	5	4173	LLL	O51-C11-O11-C42
85	5	4166	LLL	O53-C13-O62-C62
85	5	4151	LLL	O53-C13-O62-C62
85	6	2175	LLL	O51-C51-C61-N61
85	7	233	LLL	C52-C42-O11-C11
85	5	4163	LLL	O51-C11-O11-C42
85	1	4003	LLL	C52-C62-O62-C13
85	5	4155	LLL	C52-C62-O62-C13
85	2	2045	LLL	C23-C13-O62-C62
85	5	4160	LLL	O51-C11-O11-C42
85	3	220	LLL	C32-C42-O11-C11
85	1	3989	LLL	C52-C42-O11-C11
85	1	3999	LLL	C41-C51-C61-N61
85	1	4002	LLL	C41-C51-C61-N61
85	1	4004	LLL	C41-C51-C61-N61
85	2	2044	LLL	C41-C51-C61-N61
85	5	4154	LLL	C41-C51-C61-N61
85	5	4165	LLL	C41-C51-C61-N61
85	5	4171	LLL	C41-C51-C61-N61
85	8	221	LLL	C41-C51-C61-N61
85	5	4161	LLL	O51-C11-O11-C42

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Mol	Chain	Res	Type	Atoms
85	6	2167	LLL	C52-C62-O62-C13
85	6	2164	LLL	O51-C11-O11-C42
85	5	4156	LLL	C52-C42-O11-C11
85	6	2165	LLL	C52-C62-O62-C13
85	1	3995	LLL	C21-C11-O11-C42
85	5	4174	LLL	C21-C11-O11-C42
85	5	4175	LLL	C21-C11-O11-C42
85	5	4166	LLL	C23-C13-O62-C62
85	6	2167	LLL	O51-C11-O11-C42
85	6	2165	LLL	O51-C11-O11-C42
85	1	3998	LLL	C52-C62-O62-C13
85	6	2172	LLL	O51-C11-O11-C42
85	6	2176	LLL	O51-C11-O11-C42
85	5	4152	LLL	O51-C11-O11-C42
85	5	4156	LLL	C52-C62-O62-C13
85	6	2166	LLL	C52-C42-O11-C11
85	1	3990	LLL	C23-C33-N33-C93
85	1	3991	LLL	C23-C33-N33-C93
85	1	3992	LLL	C23-C33-N33-C93
85	1	3994	LLL	C23-C33-N33-C93
85	1	3999	LLL	C23-C33-N33-C93
85	1	4002	LLL	C23-C33-N33-C93
85	4	224	LLL	C23-C33-N33-C93
85	5	4154	LLL	C23-C33-N33-C93
85	5	4162	LLL	C23-C33-N33-C93
85	5	4164	LLL	C23-C33-N33-C93
85	5	4169	LLL	C23-C33-N33-C93
85	5	4170	LLL	C23-C33-N33-C93
85	5	4172	LLL	C23-C33-N33-C93
85	5	4173	LLL	C23-C33-N33-C93
85	5	4176	LLL	C23-C33-N33-C93
85	5	4178	LLL	C23-C33-N33-C93
85	7	233	LLL	C23-C33-N33-C93
85	6	2164	LLL	C23-C33-N33-C93
85	6	2170	LLL	C23-C33-N33-C93
85	7	231	LLL	O51-C11-O11-C42
85	5	4151	LLL	C23-C13-O62-C62
85	5	4156	LLL	O51-C11-O11-C42
85	5	4151	LLL	C52-C62-O62-C13
85	2	2045	LLL	C52-C62-O62-C13
85	7	232	LLL	C52-C62-O62-C13
85	1	4001	LLL	O53-C13-O62-C62

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Mol	Chain	Res	Type	Atoms
85	5	4151	LLL	C52-C42-O11-C11
85	7	231	LLL	C52-C62-O62-C13
85	5	4167	LLL	C52-C62-O62-C13
85	8	222	LLL	O51-C11-O11-C42
85	5	4163	LLL	O53-C13-O62-C62
85	2	2045	LLL	C32-C42-O11-C11
85	5	4164	LLL	C32-C42-O11-C11
85	8	221	LLL	C12-C62-O62-C13
85	1	4001	LLL	C23-C13-O62-C62
85	4	224	LLL	C41-C51-C61-N61
85	5	4174	LLL	C41-C51-C61-N61
85	6	2172	LLL	C41-C51-C61-N61
85	6	2173	LLL	C41-C51-C61-N61
85	7	232	LLL	O51-C11-O11-C42
85	5	4163	LLL	C23-C13-O62-C62
85	5	4169	LLL	O51-C11-O11-C42
85	6	2169	LLL	O51-C11-O11-C42

All (20) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
85	6	2172	LLL	C12-C22-C32-C42-C52-C62
85	5	4155	LLL	C11-C21-C31-C41-C51-O51
85	1	4004	LLL	C11-C21-C31-C41-C51-O51
85	5	4170	LLL	C11-C21-C31-C41-C51-O51
85	6	2168	LLL	C11-C21-C31-C41-C51-O51
85	2	2043	LLL	C11-C21-C31-C41-C51-O51
85	2	2044	LLL	C11-C21-C31-C41-C51-O51
85	6	2175	LLL	C11-C21-C31-C41-C51-O51
85	1	4003	LLL	C13-C23-C33-C43-C53-O53
85	7	233	LLL	C12-C22-C32-C42-C52-C62
85	1	4003	LLL	C11-C21-C31-C41-C51-O51
85	6	2173	LLL	C11-C21-C31-C41-C51-O51
85	8	222	LLL	C12-C22-C32-C42-C52-C62
85	5	4163	LLL	C12-C22-C32-C42-C52-C62
85	7	233	LLL	C13-C23-C33-C43-C53-O53
85	5	4161	LLL	C11-C21-C31-C41-C51-O51
85	5	4162	LLL	C11-C21-C31-C41-C51-O51
85	5	4173	LLL	C12-C22-C32-C42-C52-C62
85	5	4163	LLL	C11-C21-C31-C41-C51-O51
85	8	222	LLL	C11-C21-C31-C41-C51-O51

61 monomers are involved in 161 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	4156	LLL	2	0
85	1	3994	LLL	1	0
85	6	2171	LLL	2	0
85	7	232	LLL	4	0
85	5	4175	LLL	3	0
85	6	2175	LLL	2	0
85	6	2167	LLL	6	0
85	1	3998	LLL	1	0
85	1	4003	LLL	1	0
85	1	3997	LLL	2	0
85	5	4158	LLL	2	0
85	6	2170	LLL	1	0
85	5	4152	LLL	2	0
85	5	4155	LLL	2	0
85	8	222	LLL	10	0
85	6	2169	LLL	3	0
85	3	220	LLL	2	0
85	5	4151	LLL	2	0
85	5	4157	LLL	1	0
85	5	4162	LLL	4	0
85	5	4169	LLL	1	0
85	6	2166	LLL	3	0
85	5	4166	LLL	1	0
85	5	4164	LLL	1	0
85	1	4001	LLL	1	0
85	2	2045	LLL	2	0
85	5	4154	LLL	3	0
85	1	3989	LLL	2	0
85	5	4159	LLL	1	0
85	5	4160	LLL	2	0
85	1	3996	LLL	2	0
85	2	2044	LLL	2	0
85	6	2168	LLL	4	0
85	5	4172	LLL	3	0
85	2	2043	LLL	5	0
85	1	3999	LLL	3	0
85	5	4168	LLL	4	0
85	1	3992	LLL	3	0
85	5	4171	LLL	3	0
85	5	4173	LLL	2	0
85	1	4000	LLL	3	0
85	7	233	LLL	3	0
85	4	224	LLL	9	0

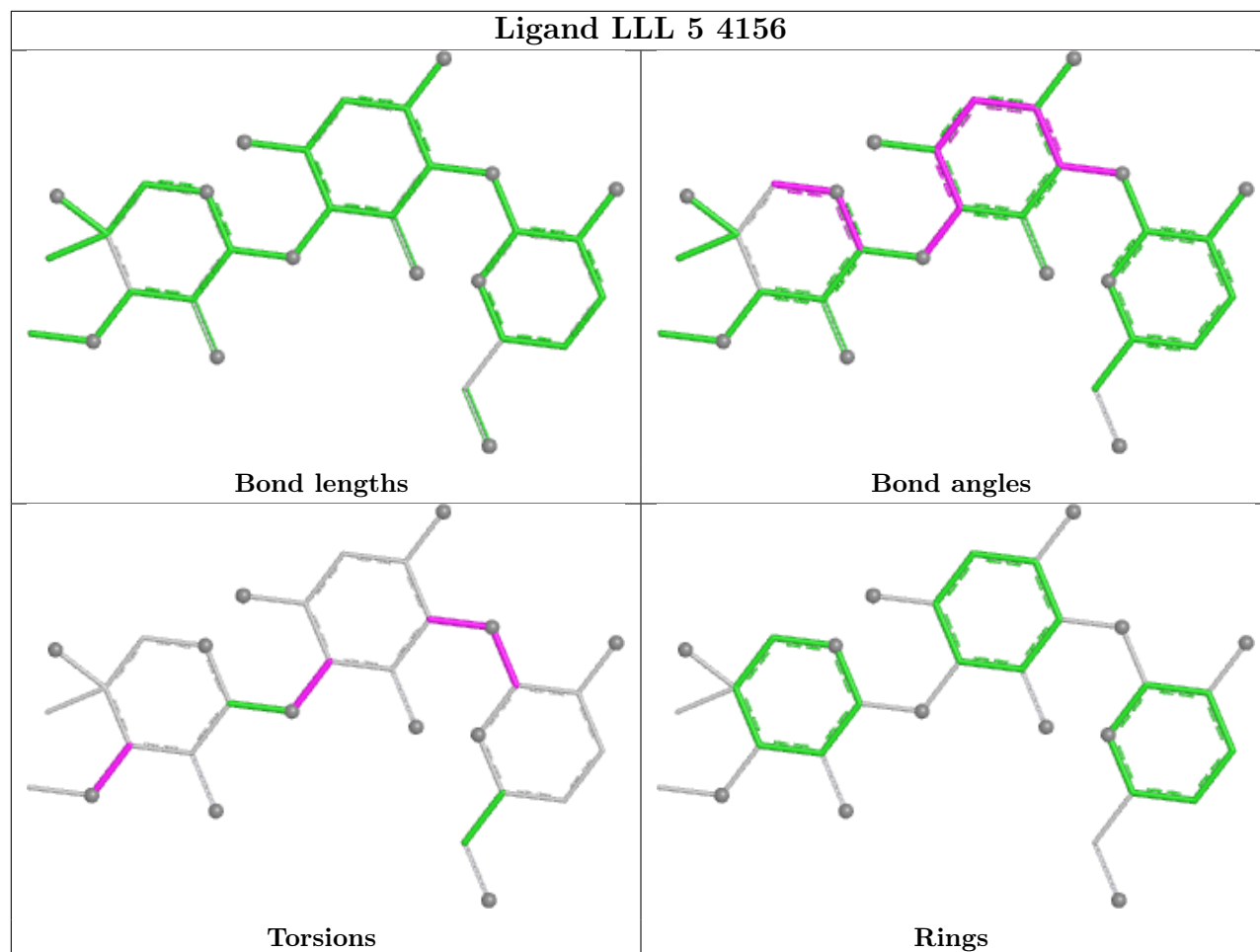
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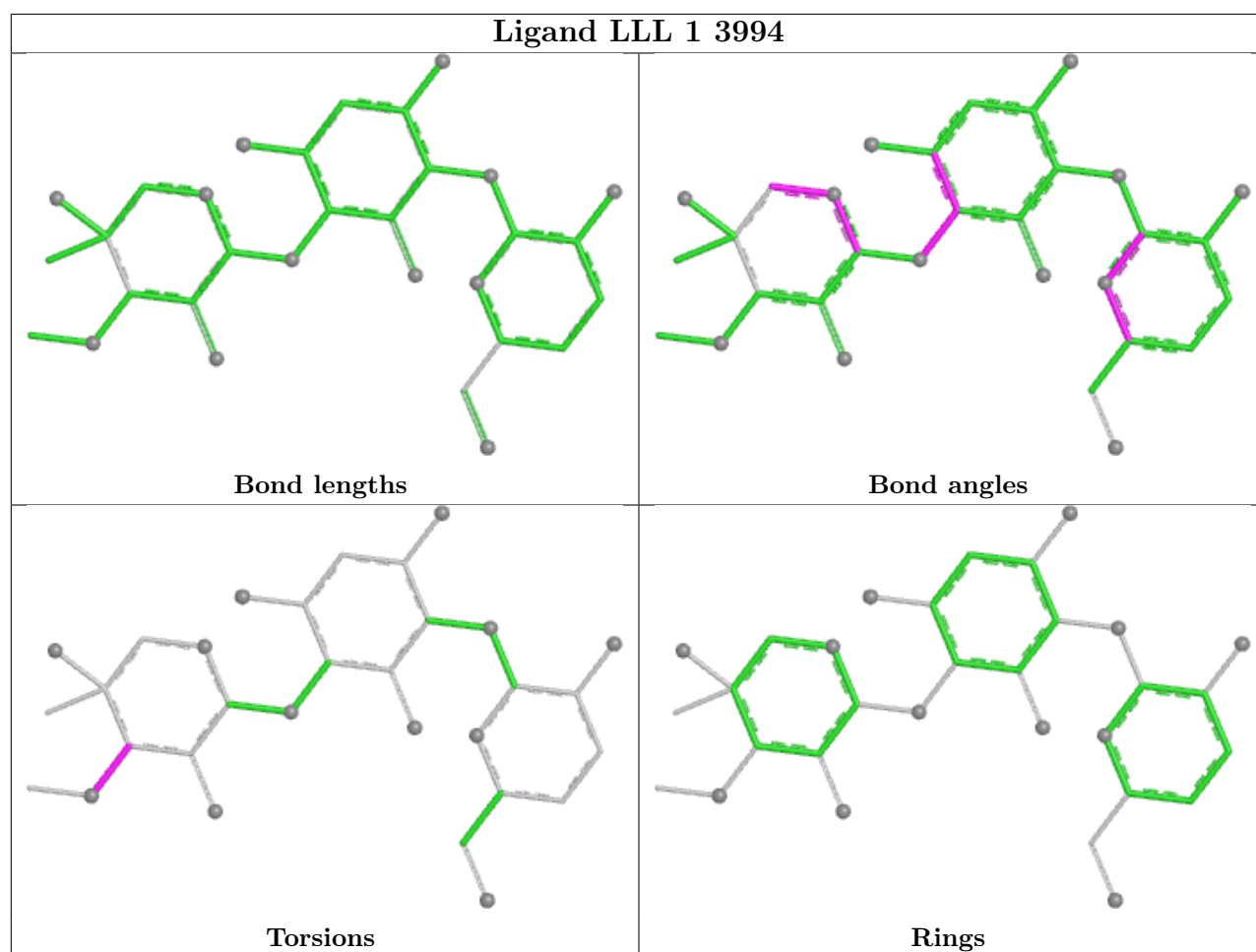
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	6	2173	LLL	3	0
85	5	4174	LLL	3	0
85	1	3990	LLL	1	0
85	5	4176	LLL	1	0
85	13	412	LLL	3	0
85	1	4002	LLL	4	0
85	6	2176	LLL	1	0
85	7	231	LLL	4	0
85	5	4163	LLL	2	0
85	6	2172	LLL	2	0
85	5	4178	LLL	4	0
85	5	4153	LLL	1	0
85	L3	404	LLL	2	0
85	1	3993	LLL	1	0
85	5	4177	LLL	3	0
85	8	221	LLL	6	0
85	5	4170	LLL	1	0
85	1	3991	LLL	3	0

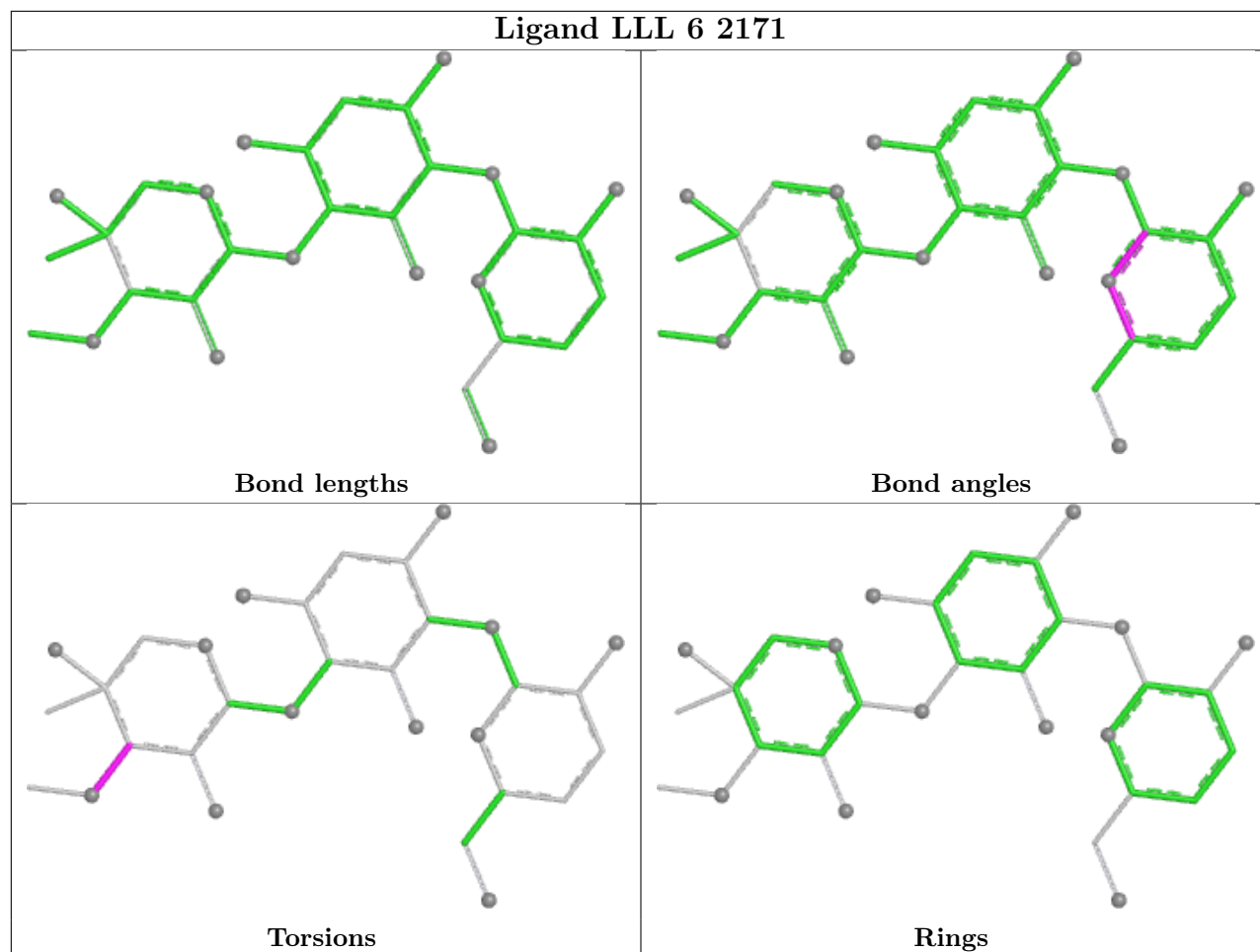
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 LLL 5 4156

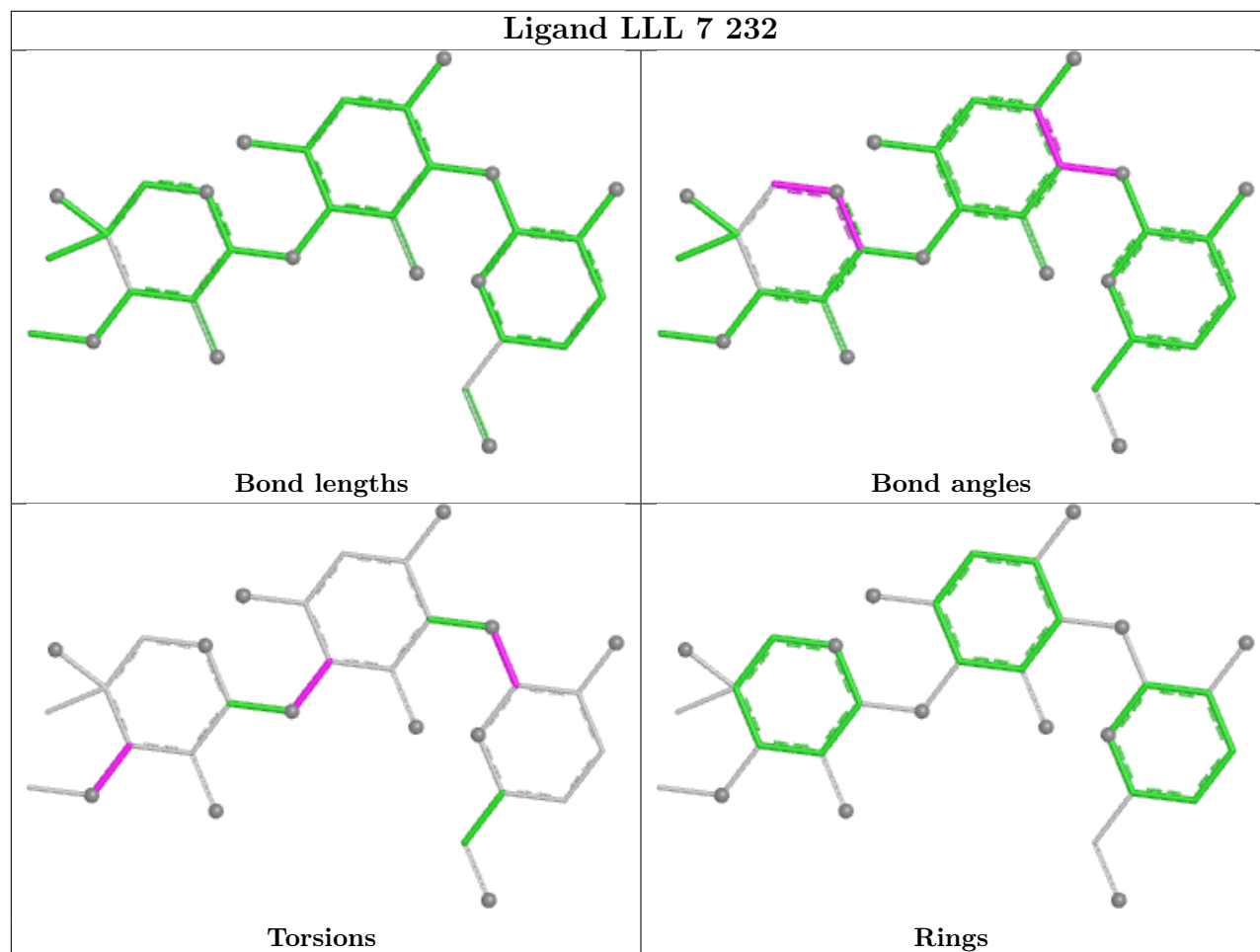




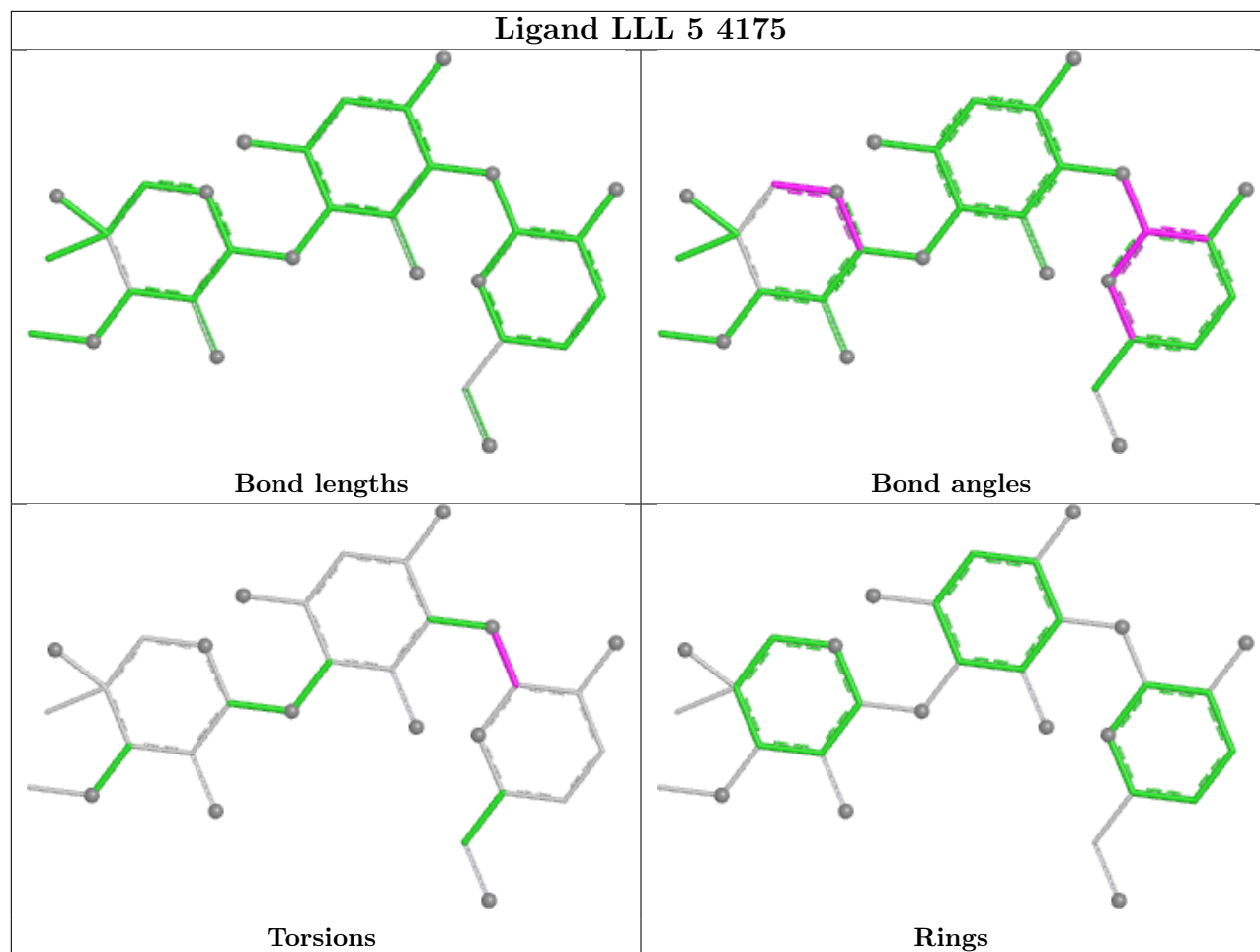
Ligand LLL 6 2171



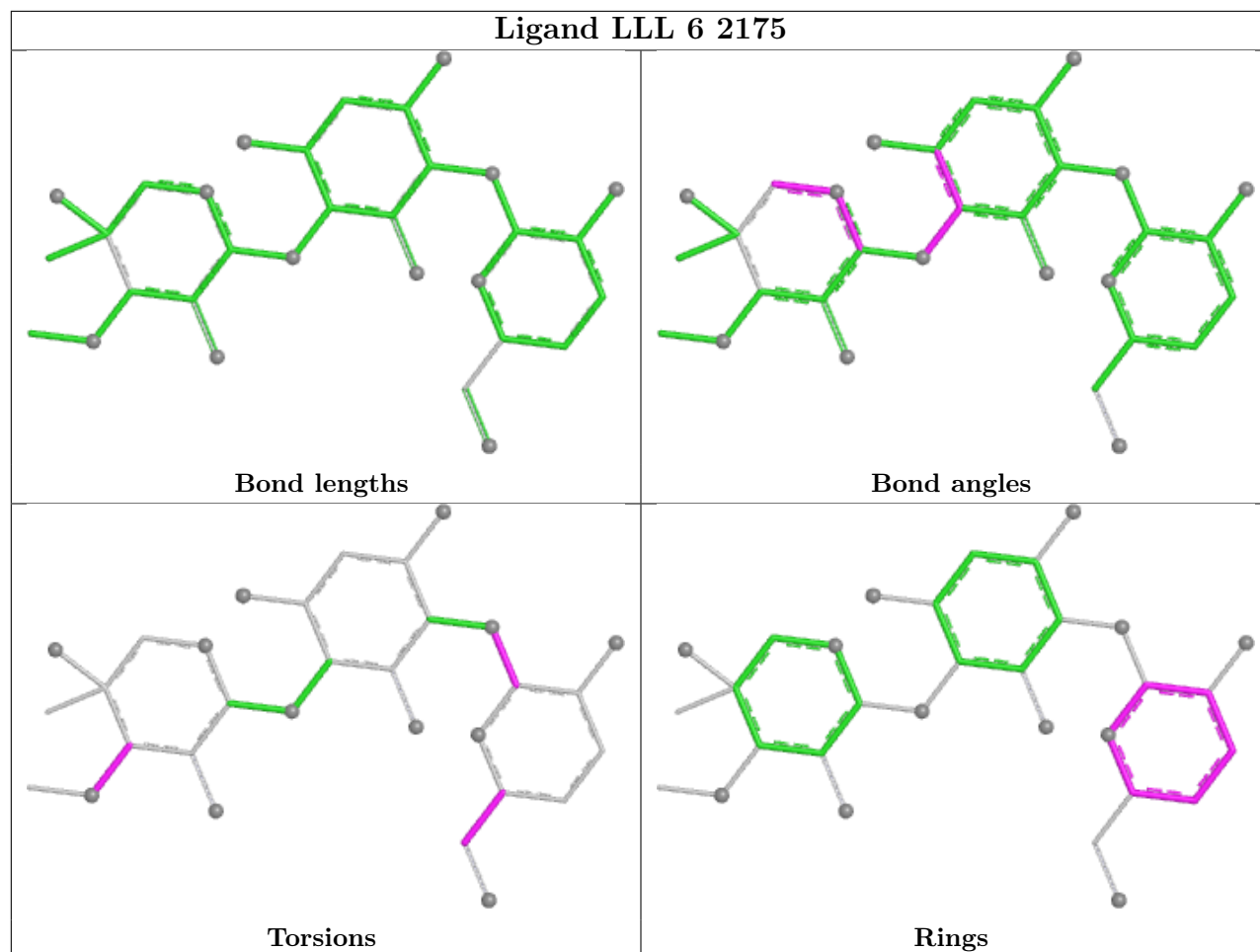
Ligand LLL 7 232



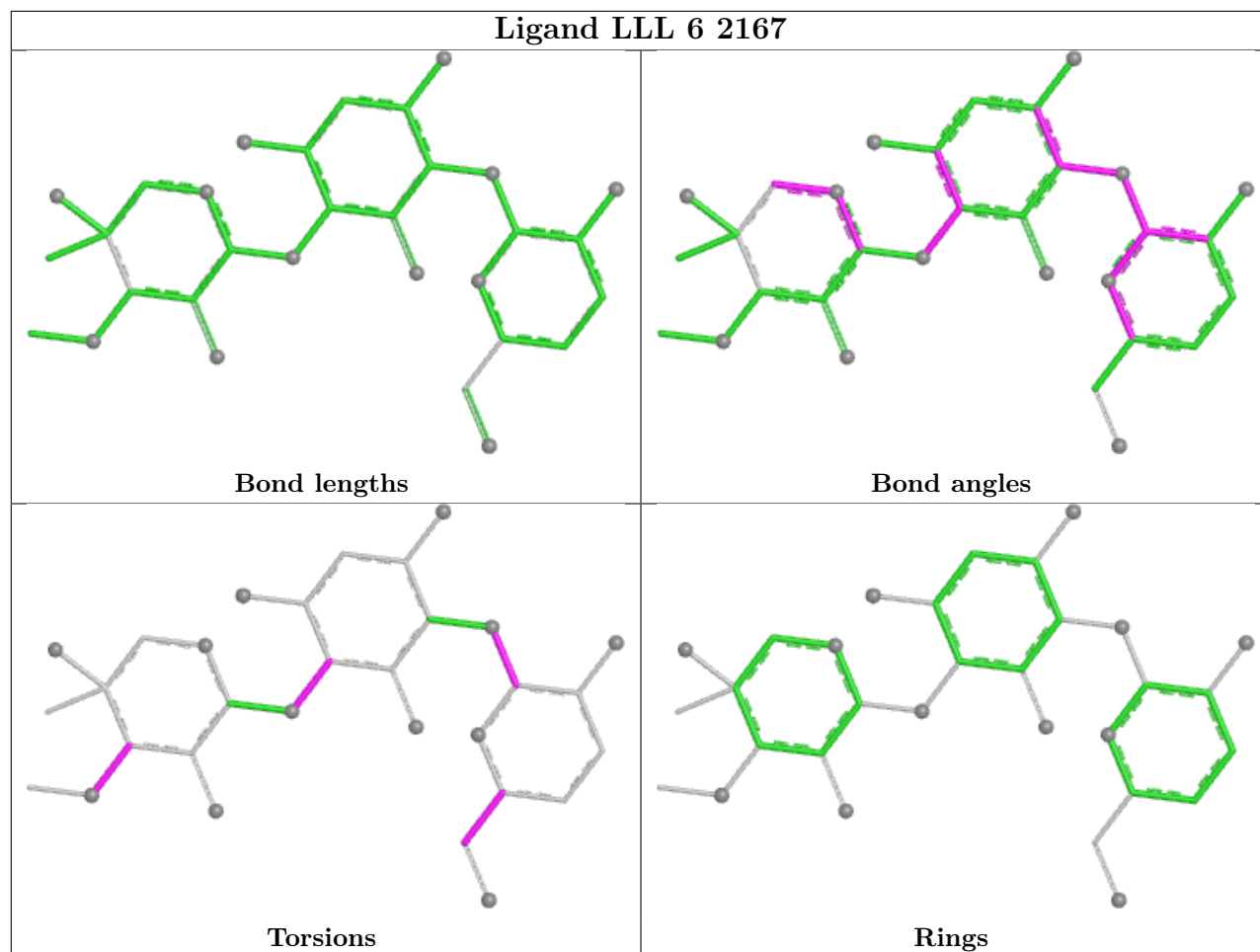
Ligand LLL 5 4175

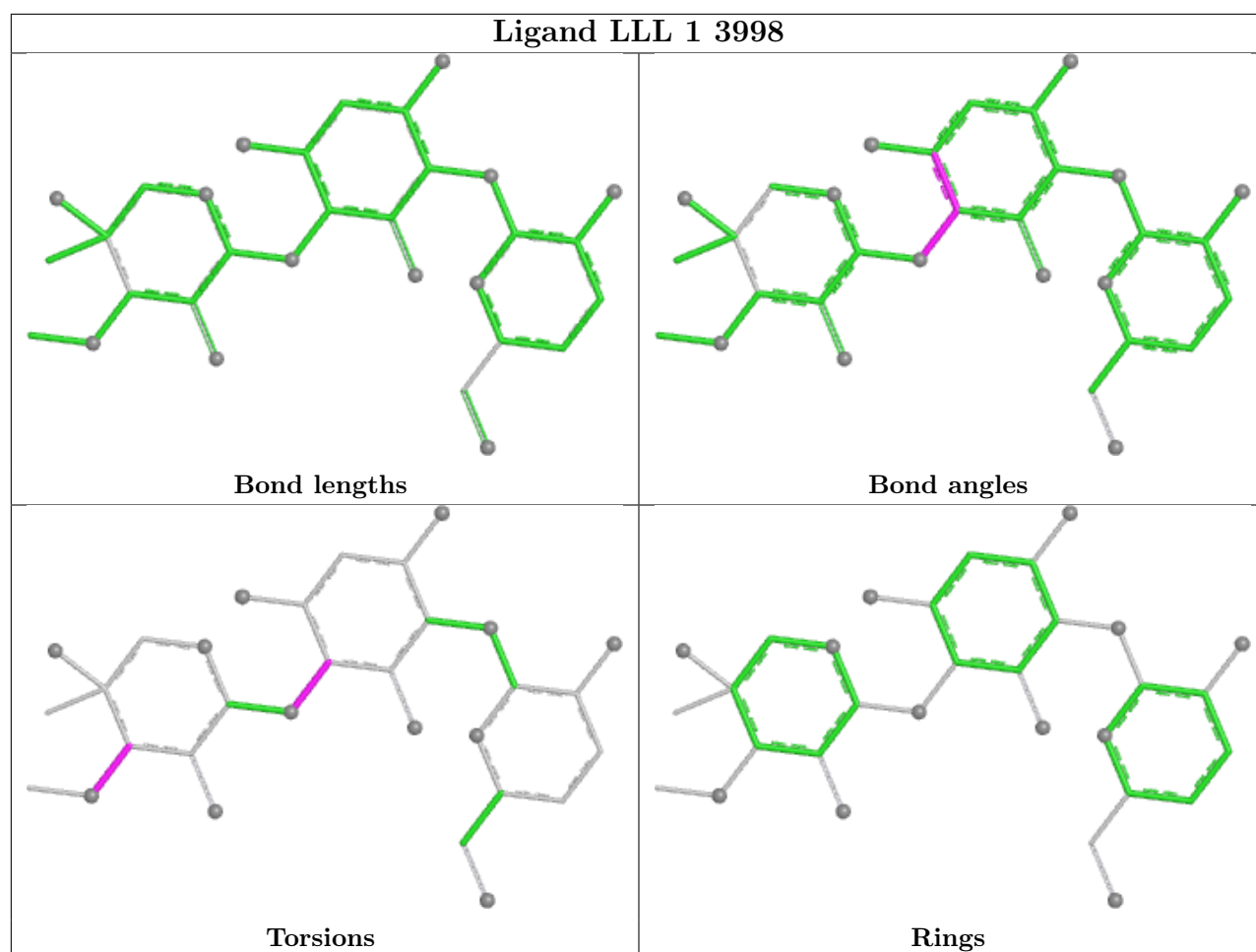


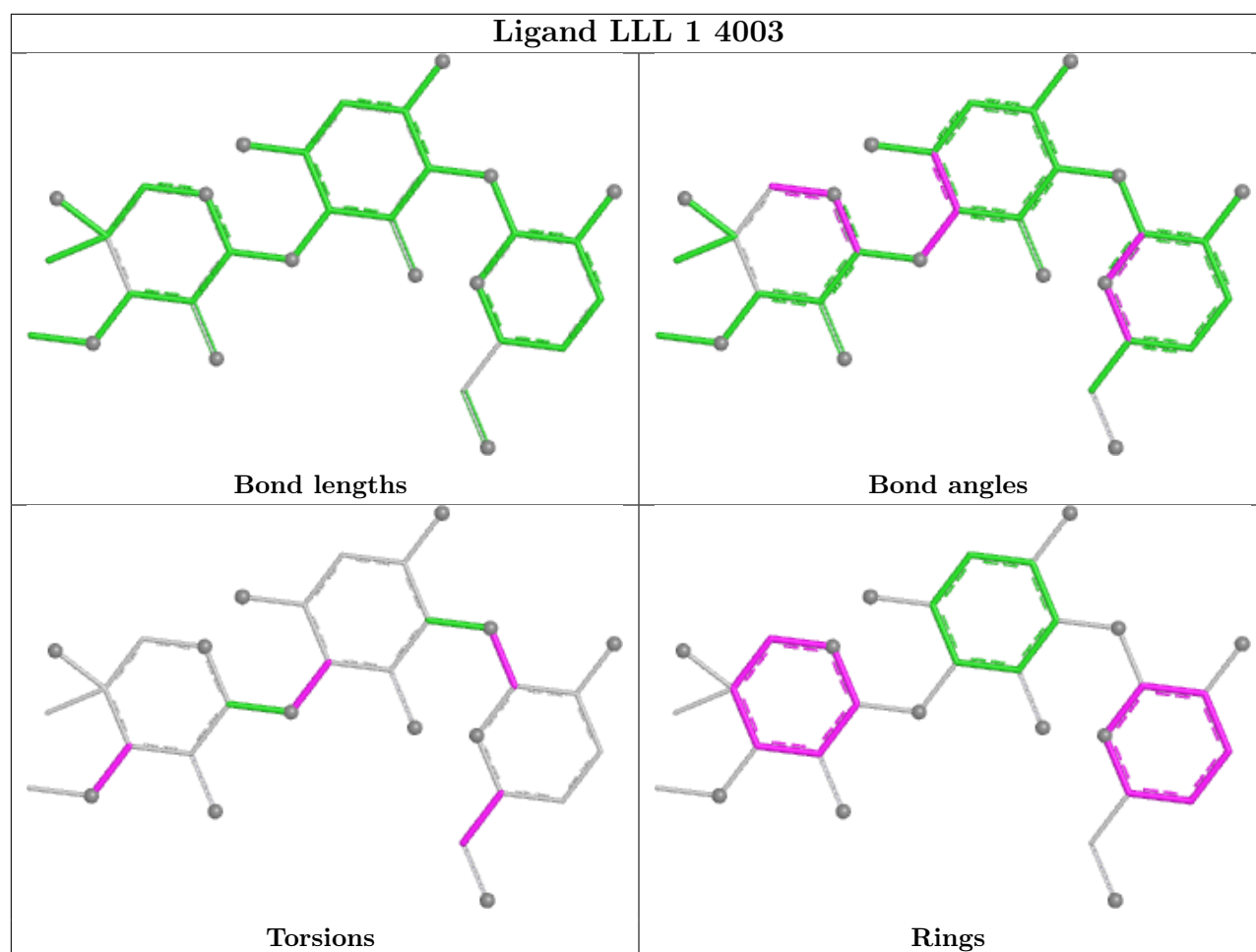
Ligand LLL 6 2175

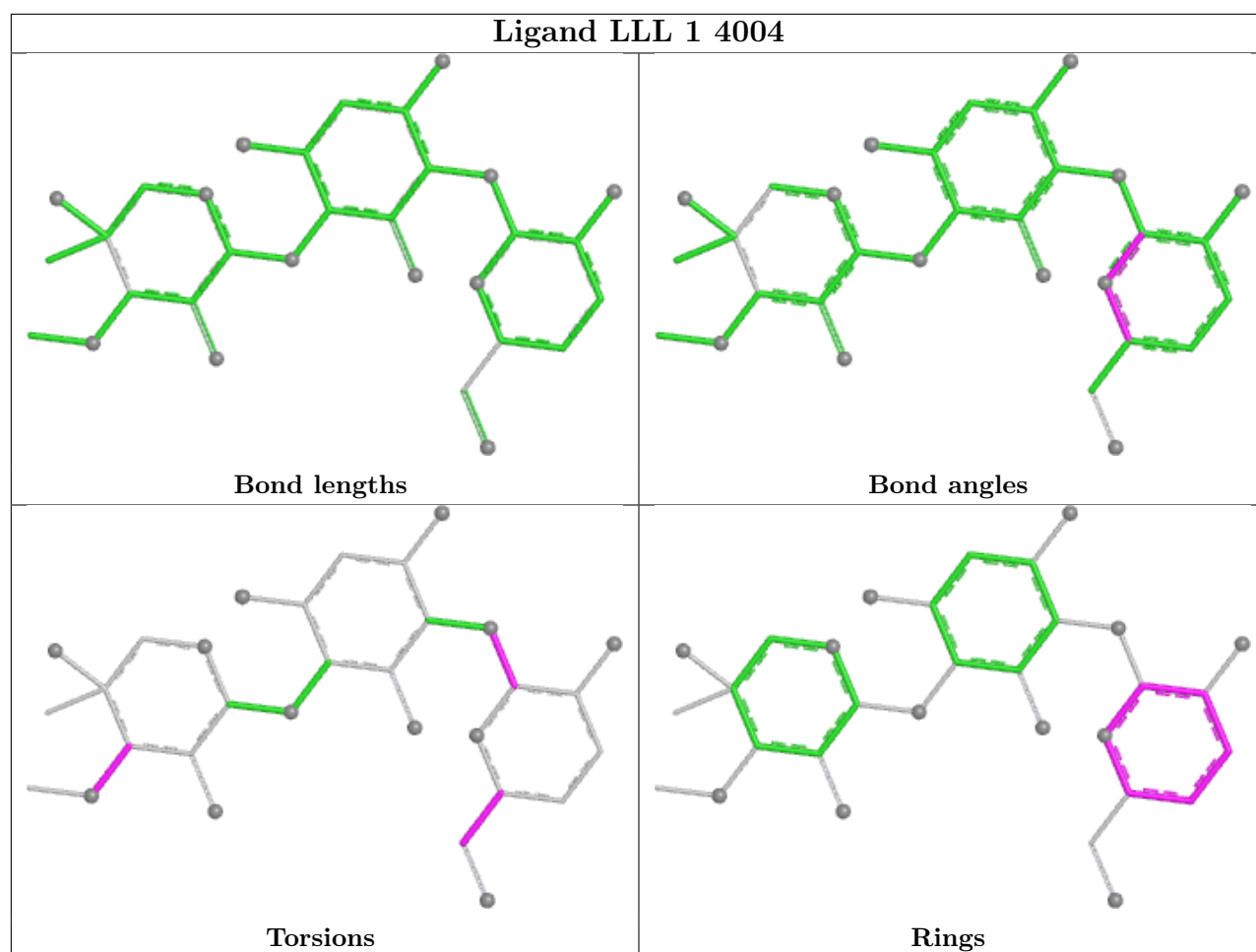


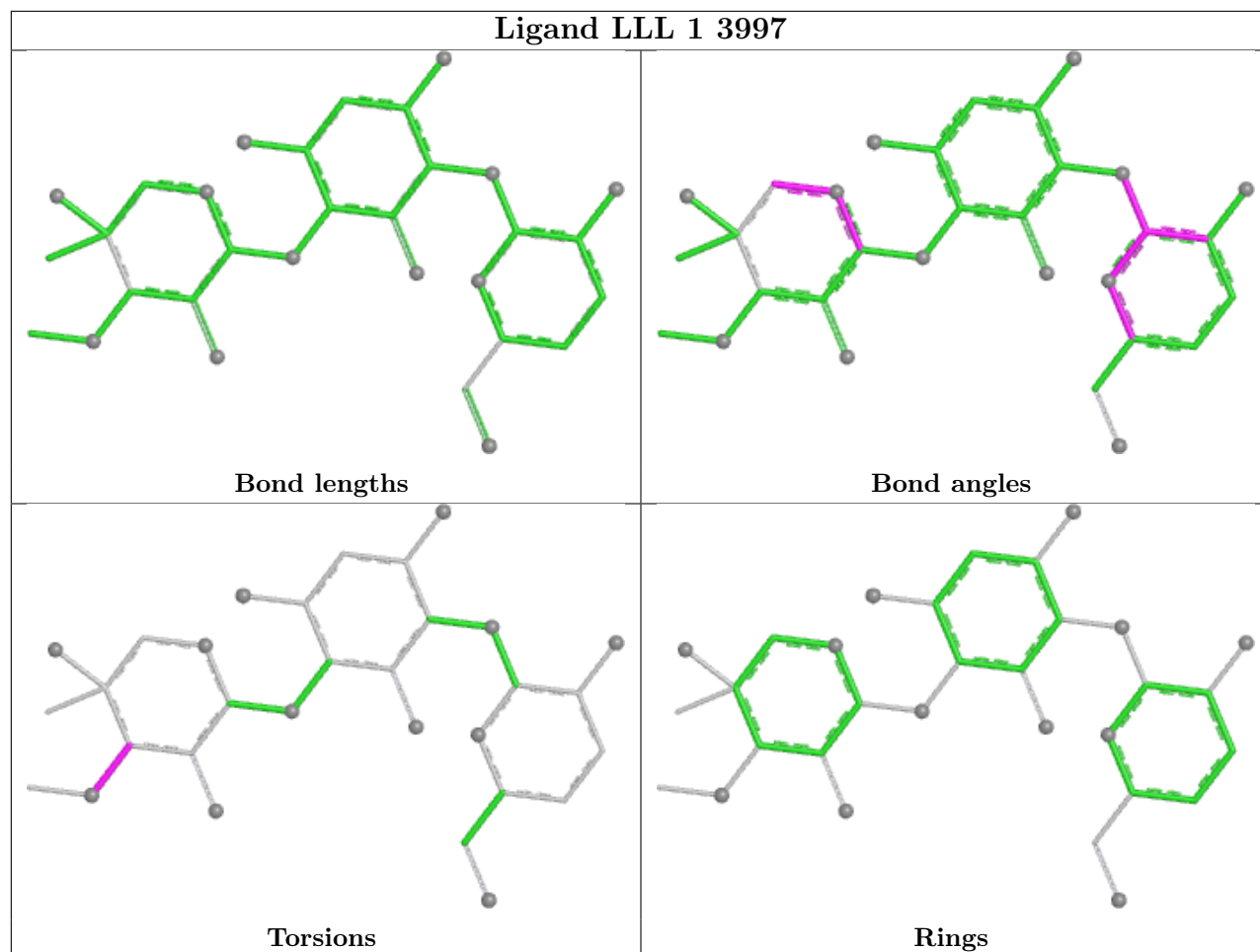
Ligand LLL 6 2167



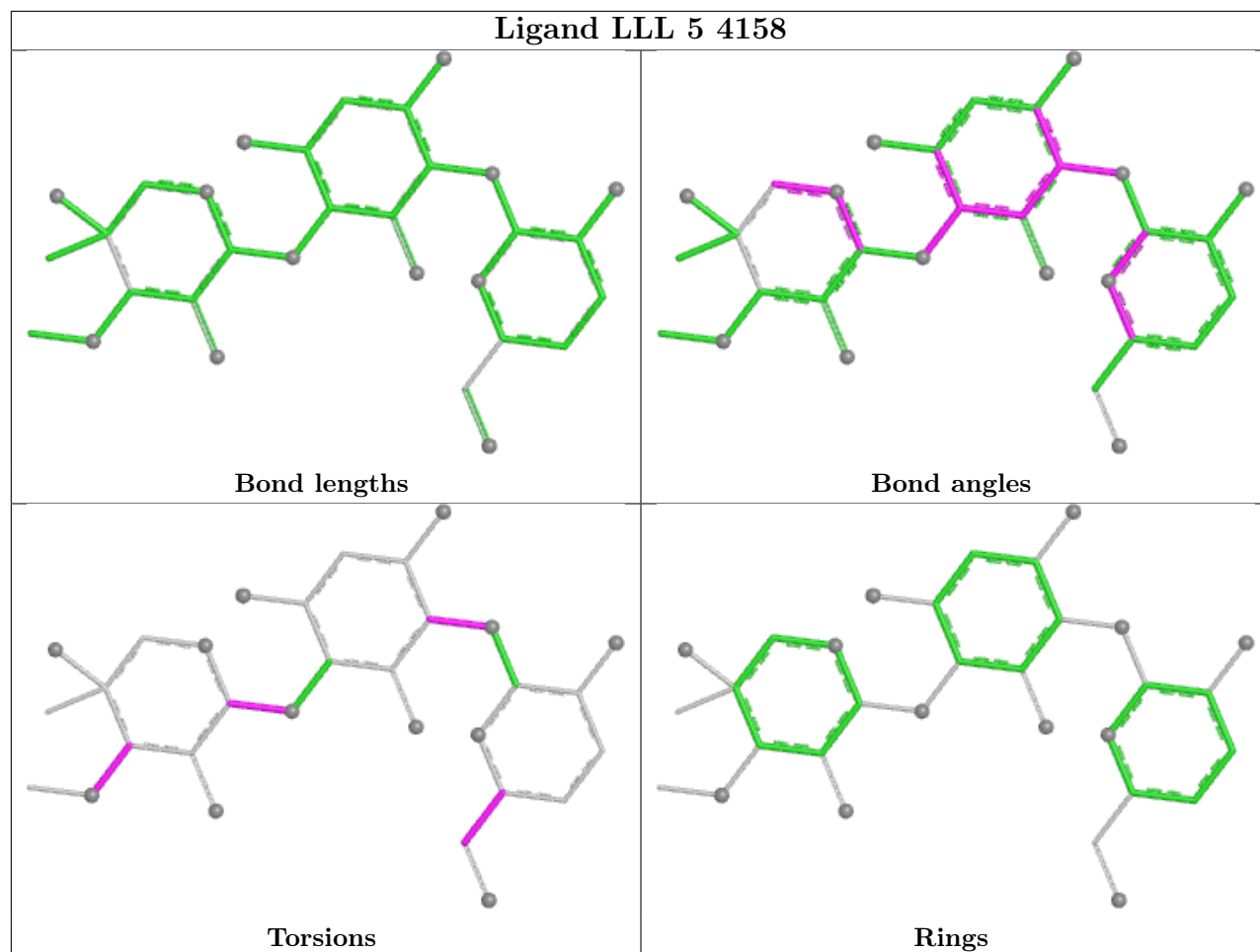




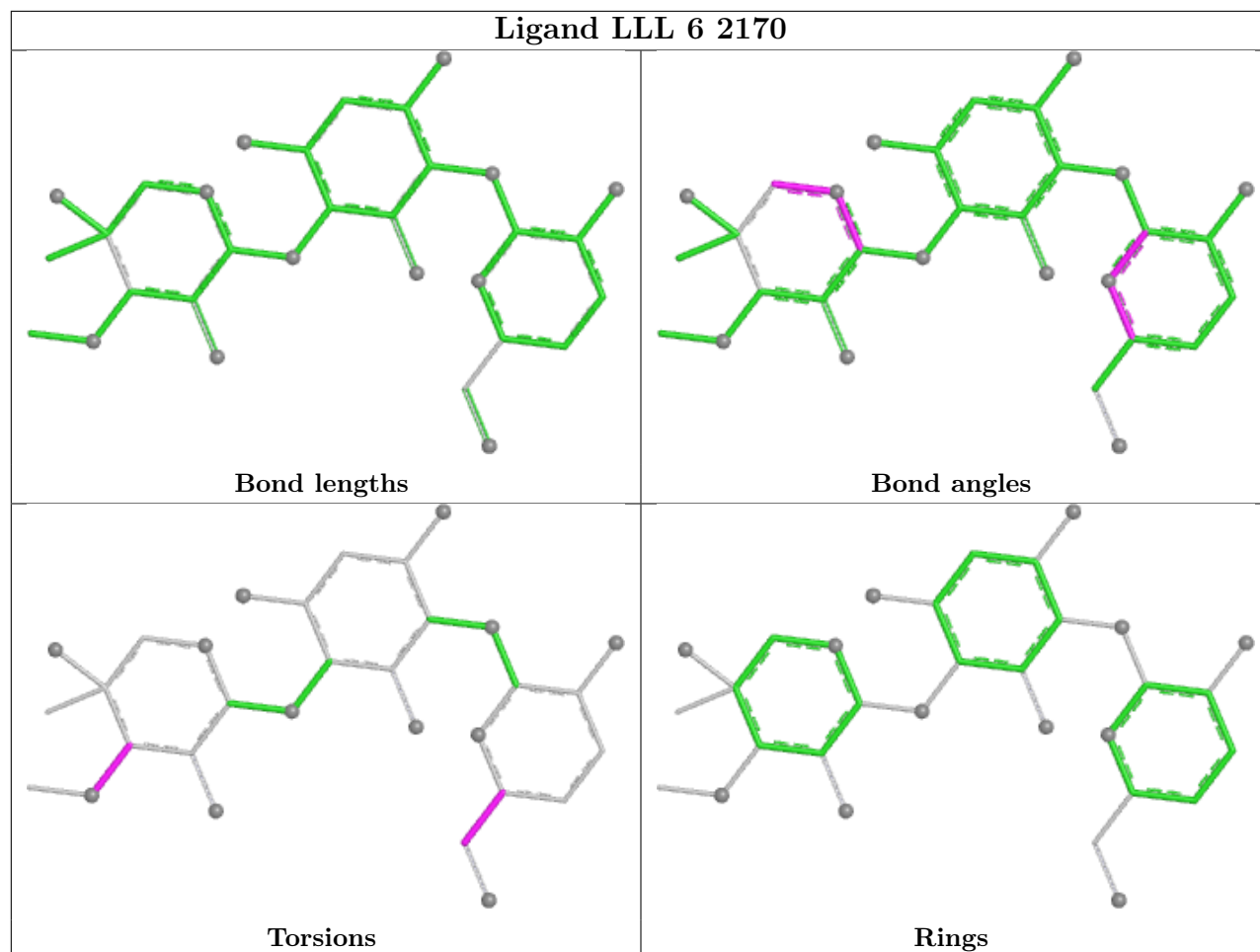


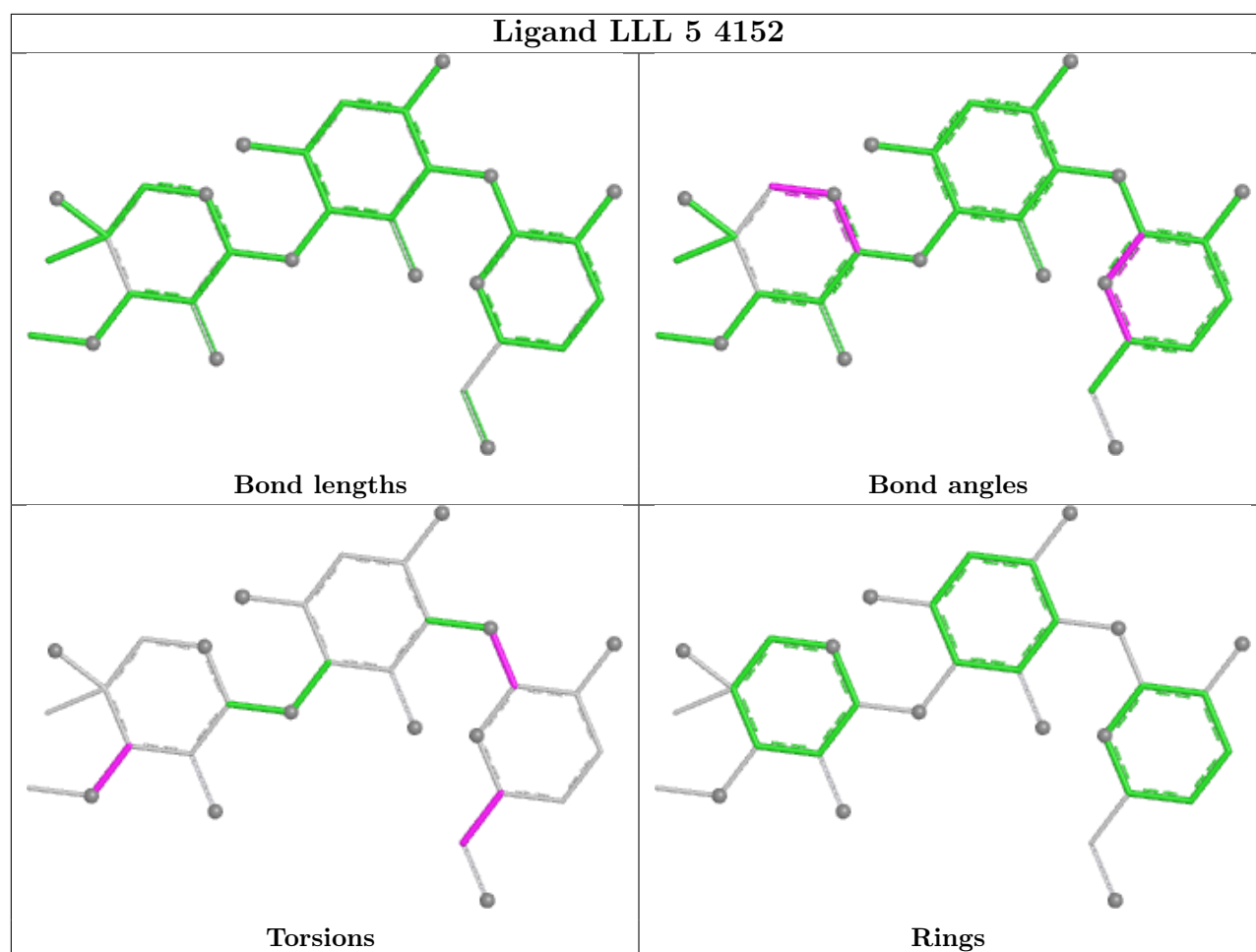


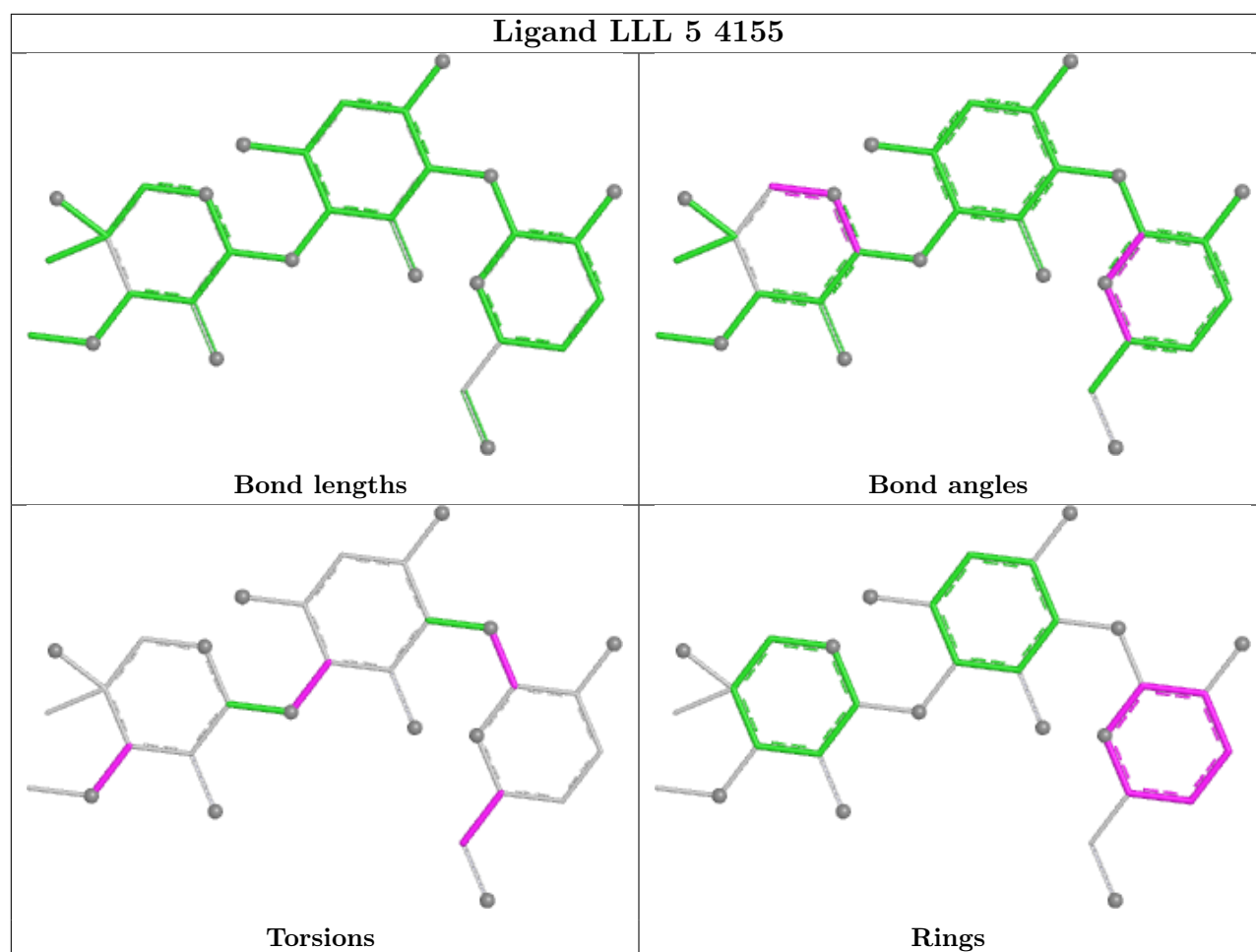
Ligand LLL 5 4158



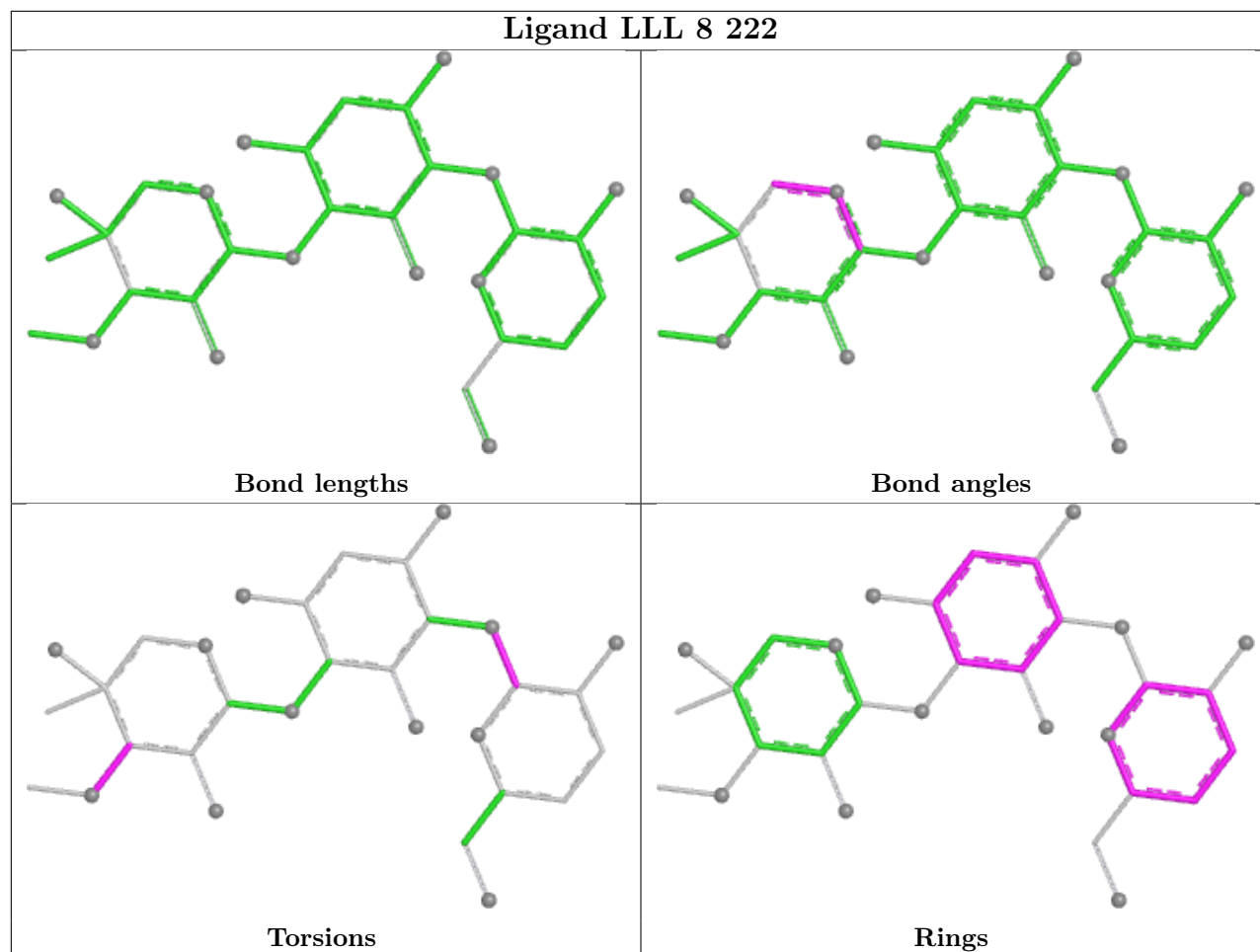
Ligand LLL 6 2170



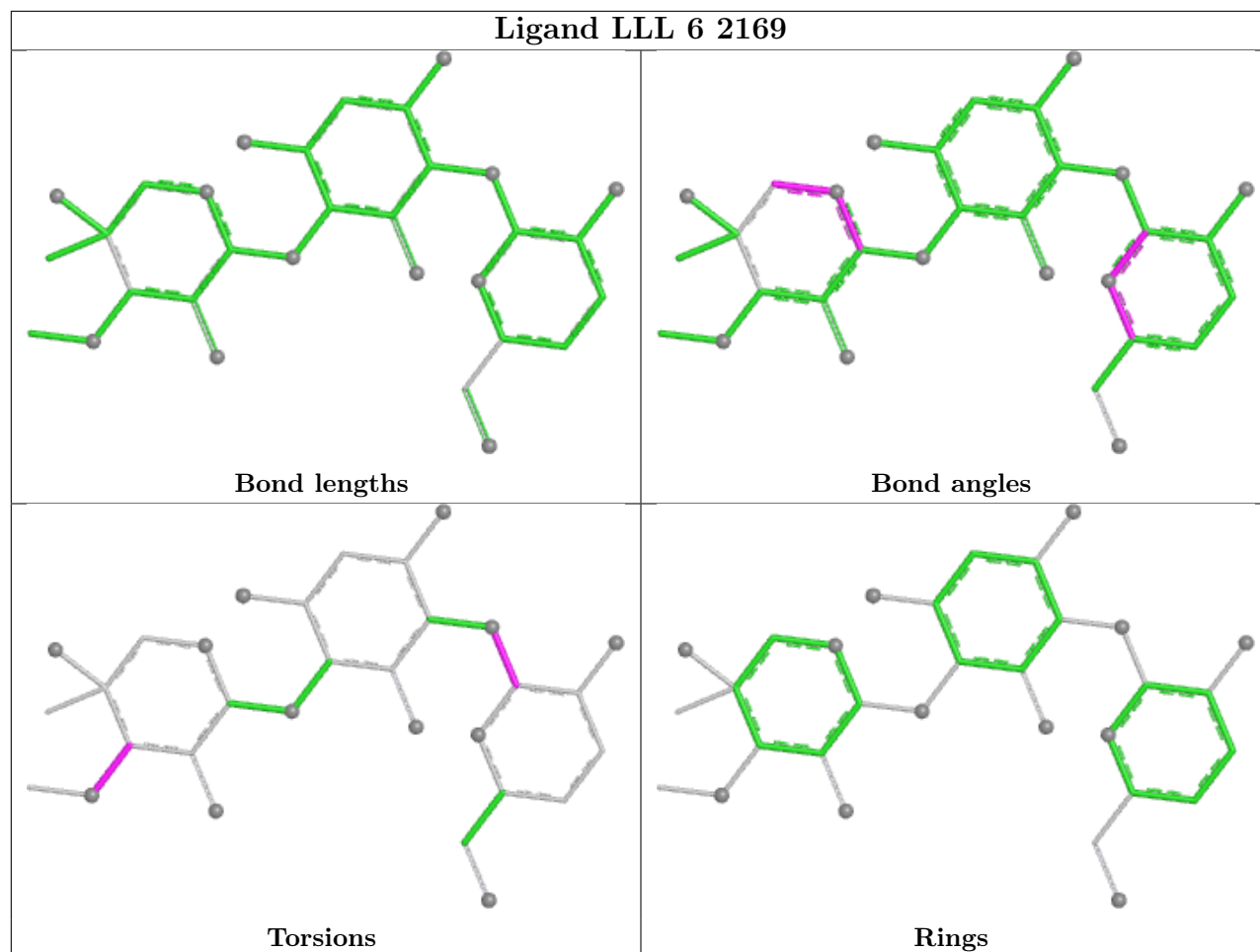




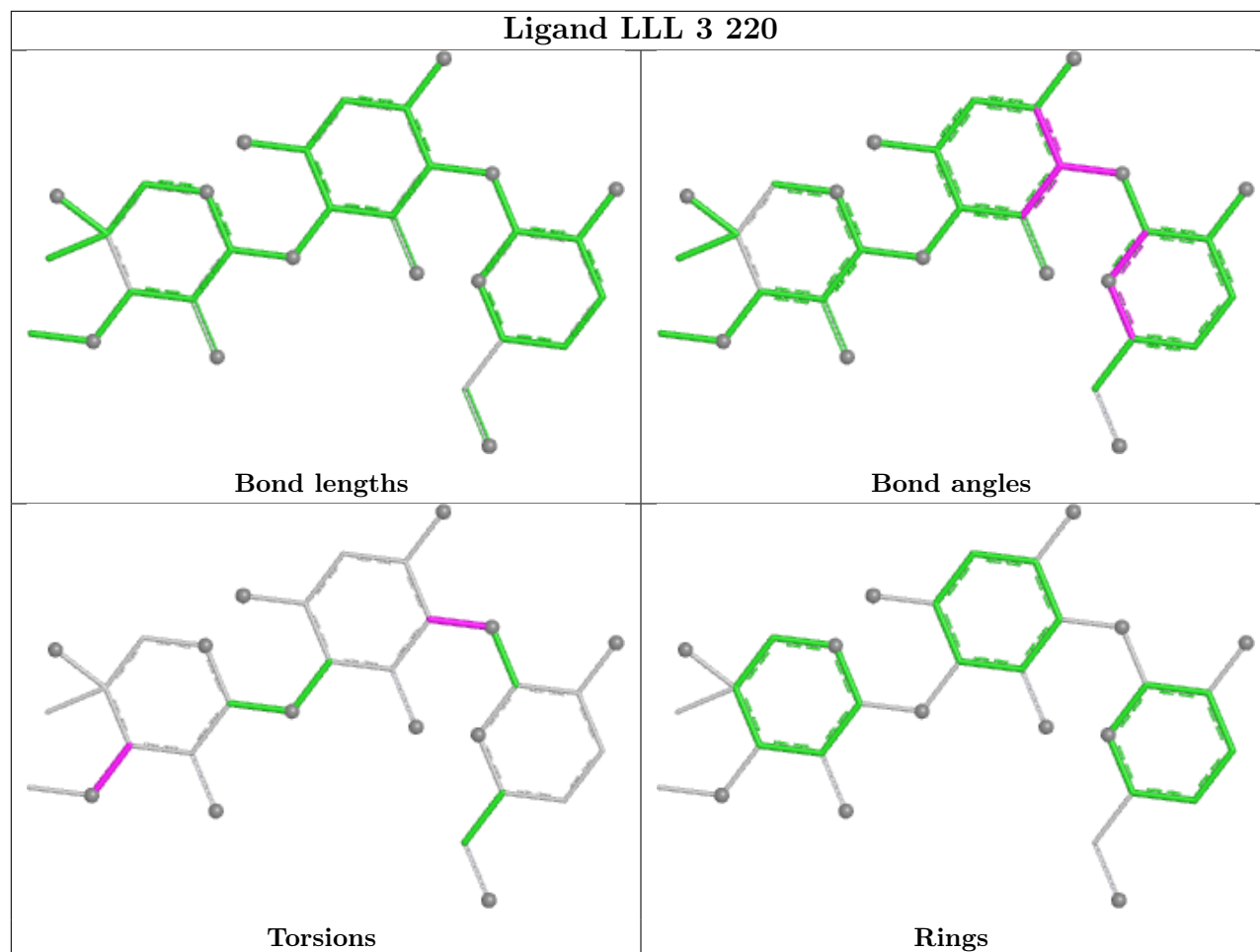
Ligand LLL 8 222



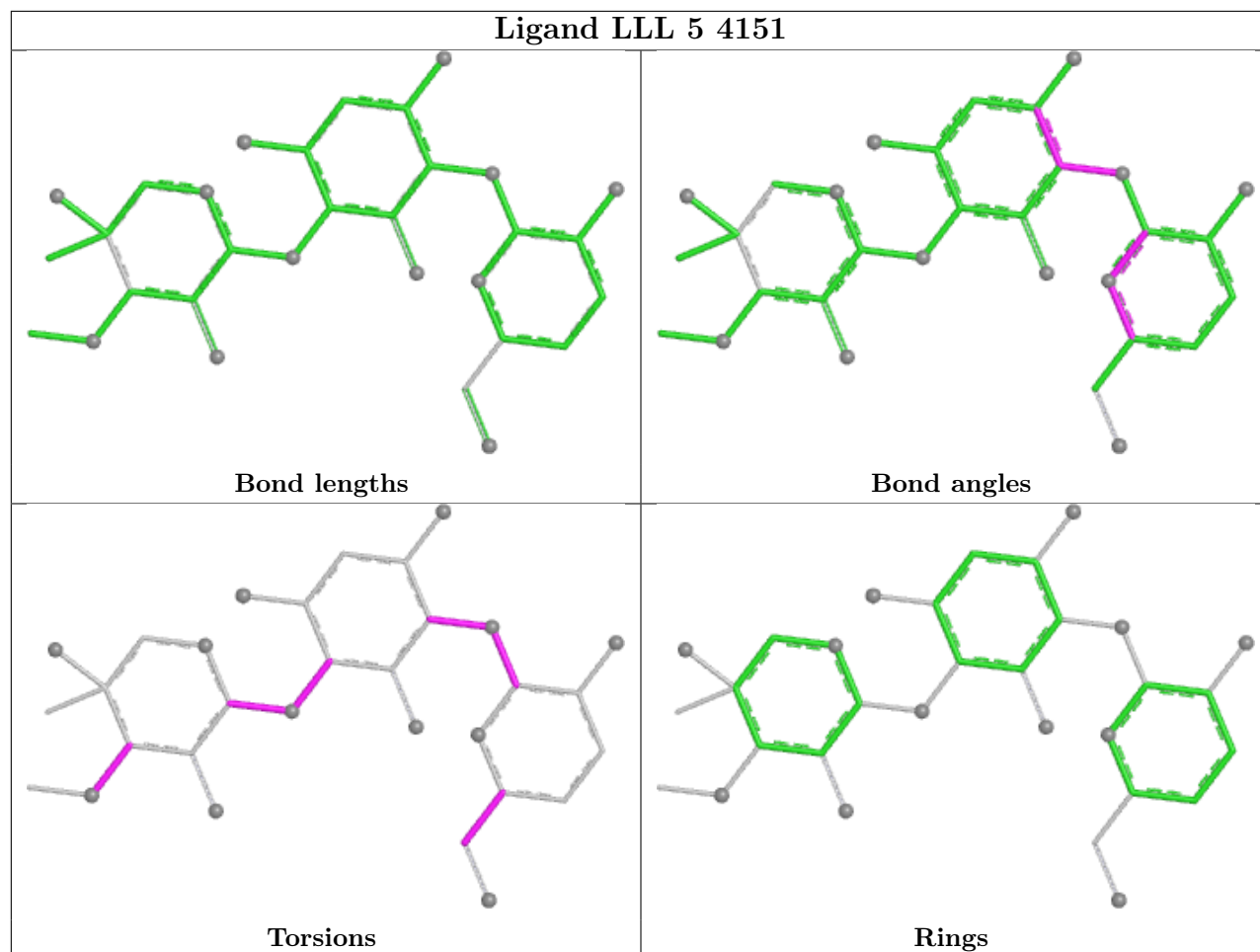
Ligand LLL 6 2169



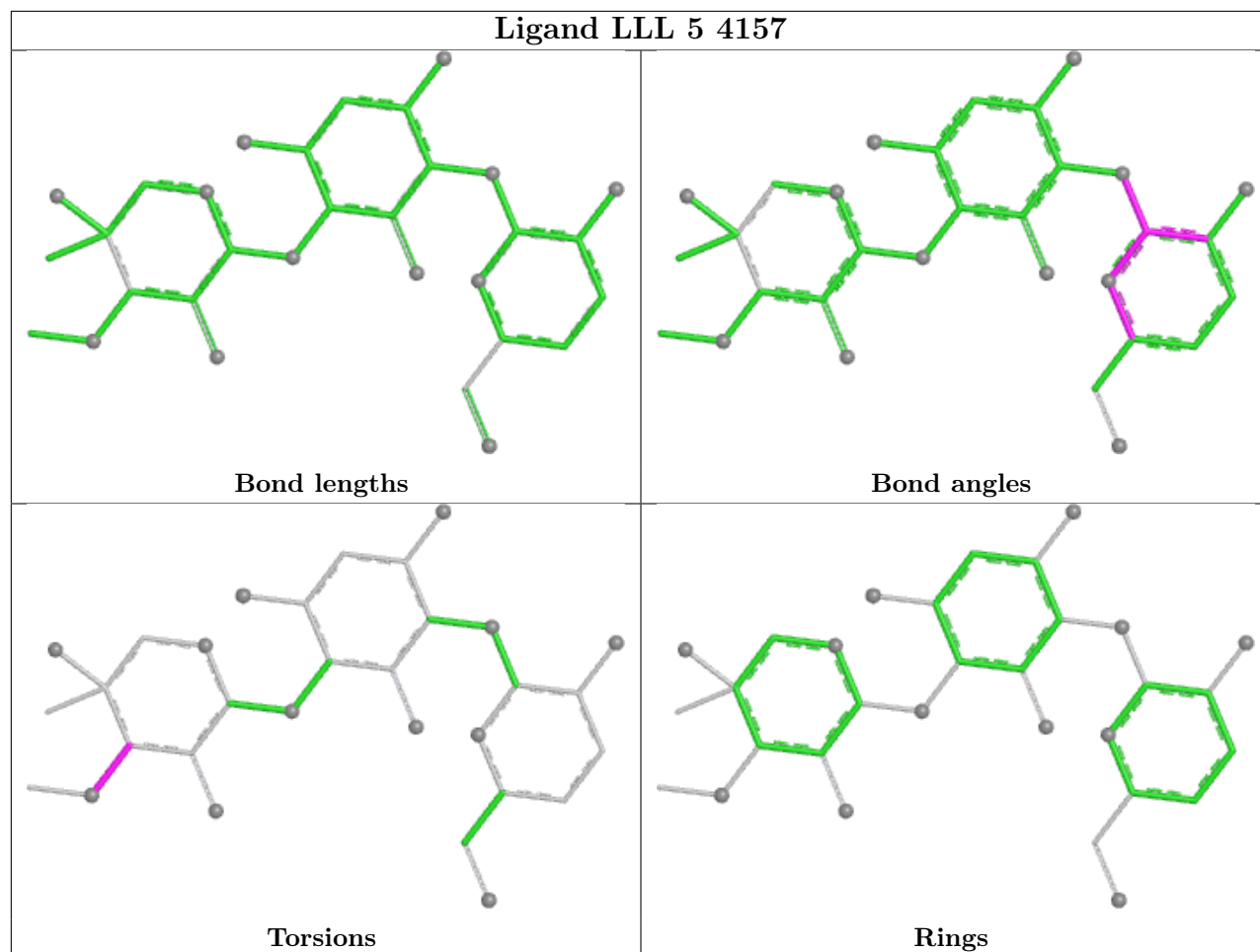
Ligand LLL 3 220



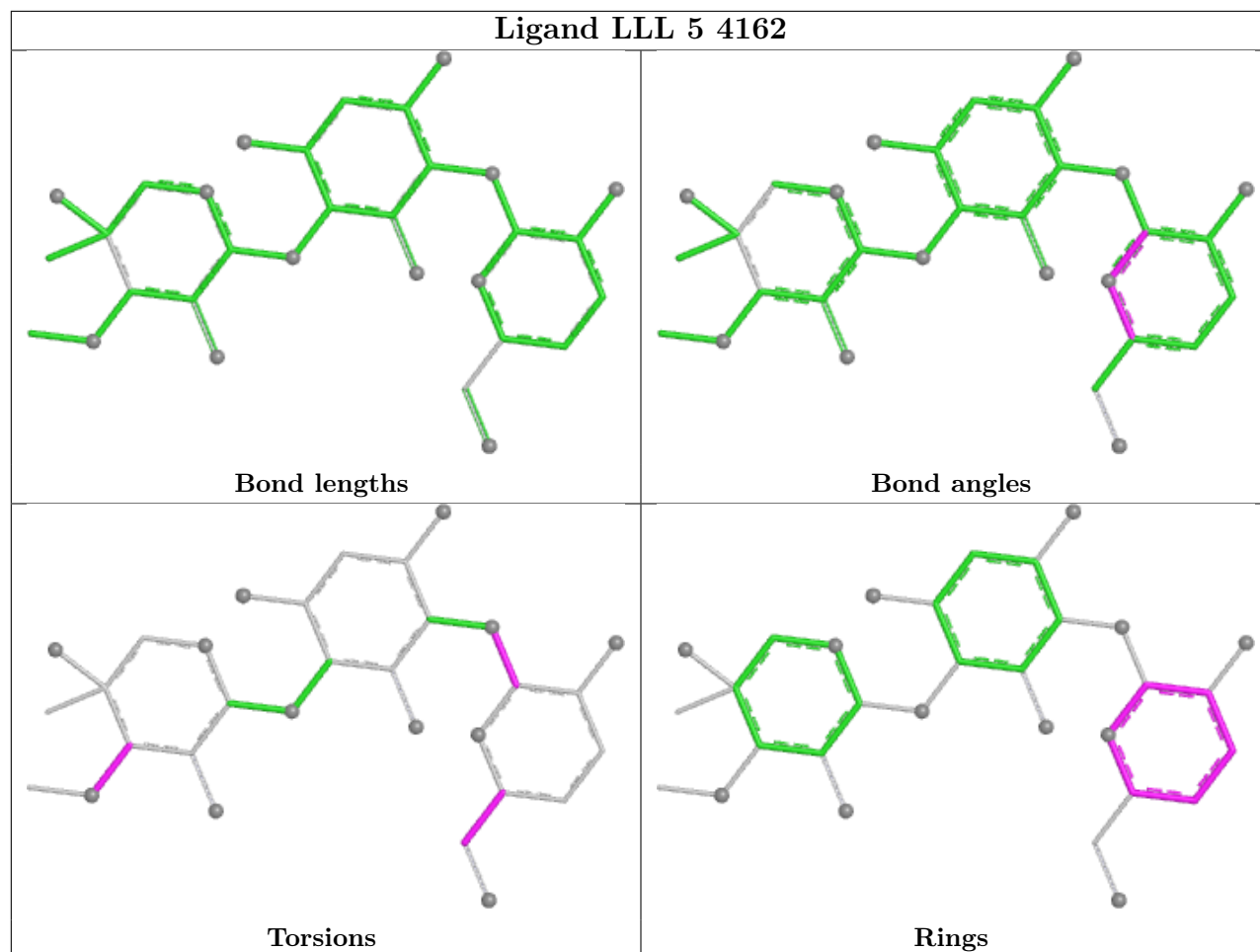
Ligand LLL 5 4151



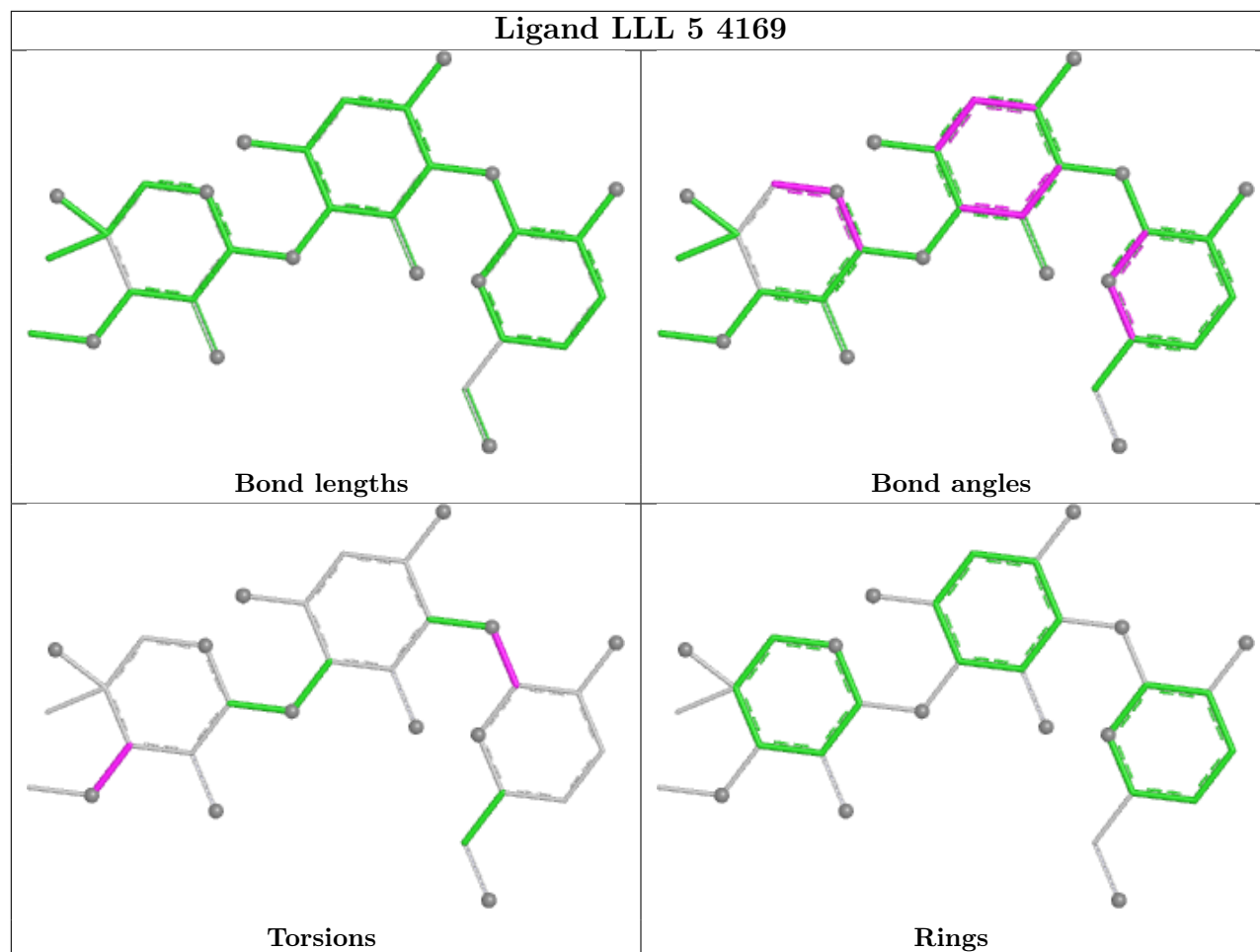
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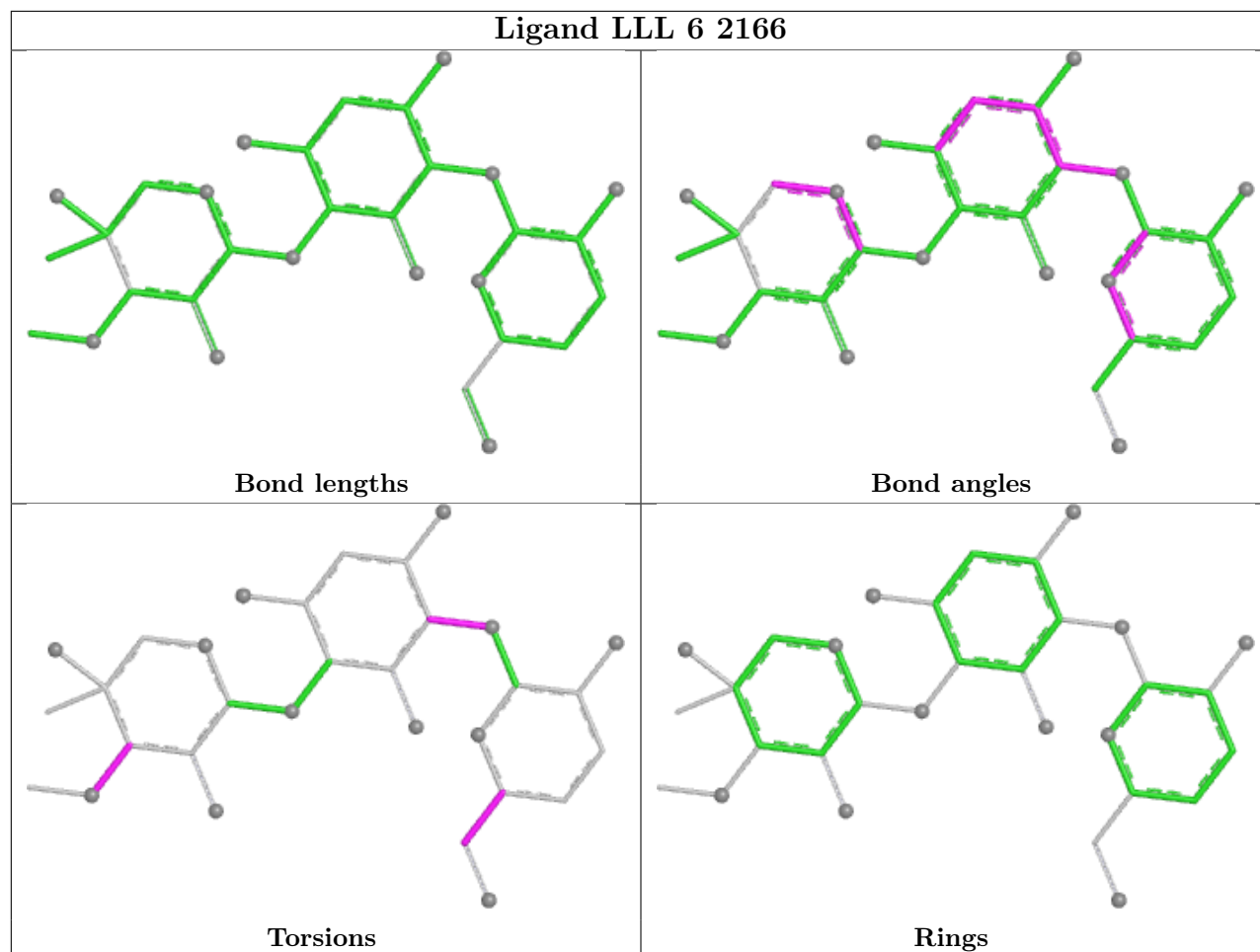
Ligand LLL 5 4162



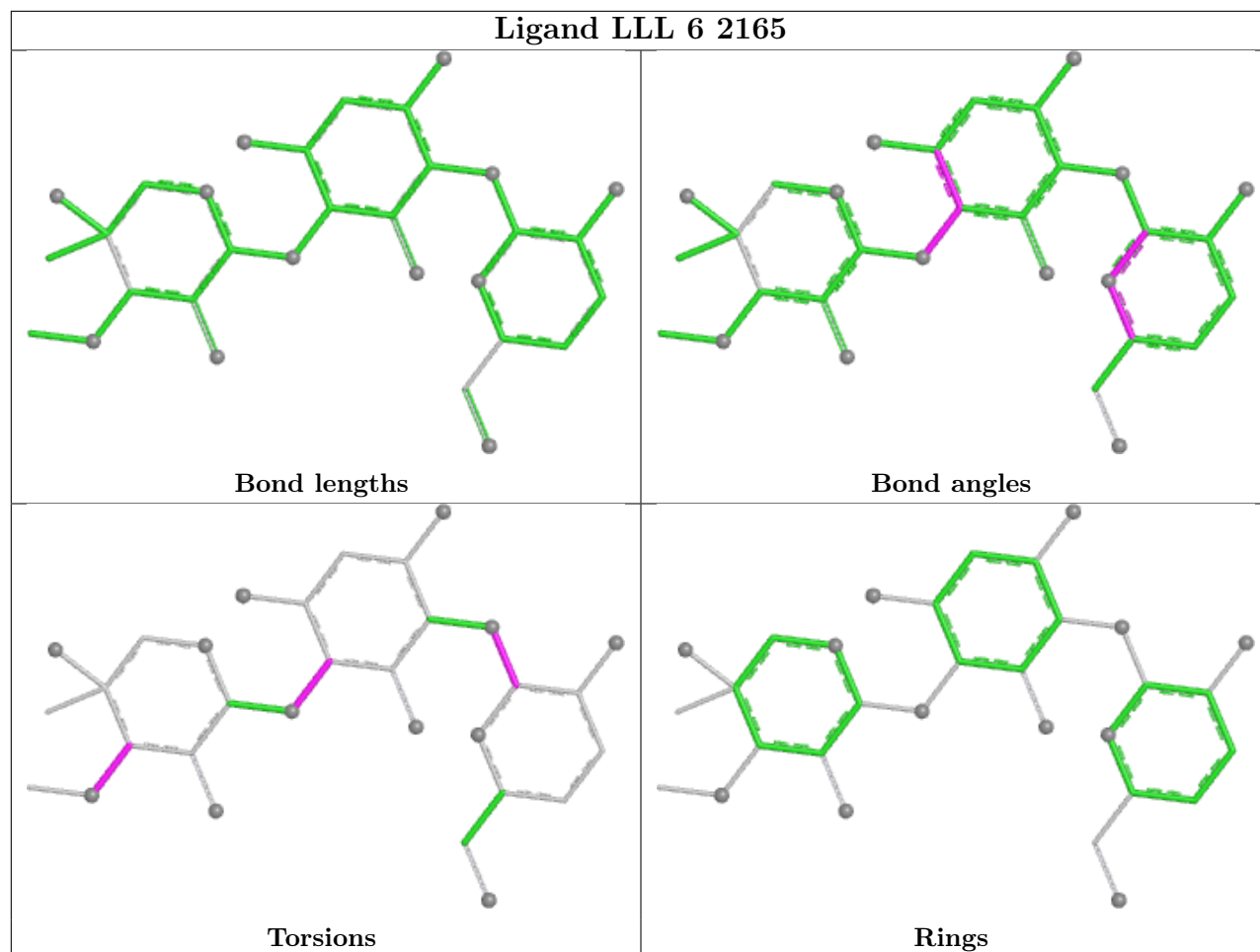
Ligand LLL 5 4169



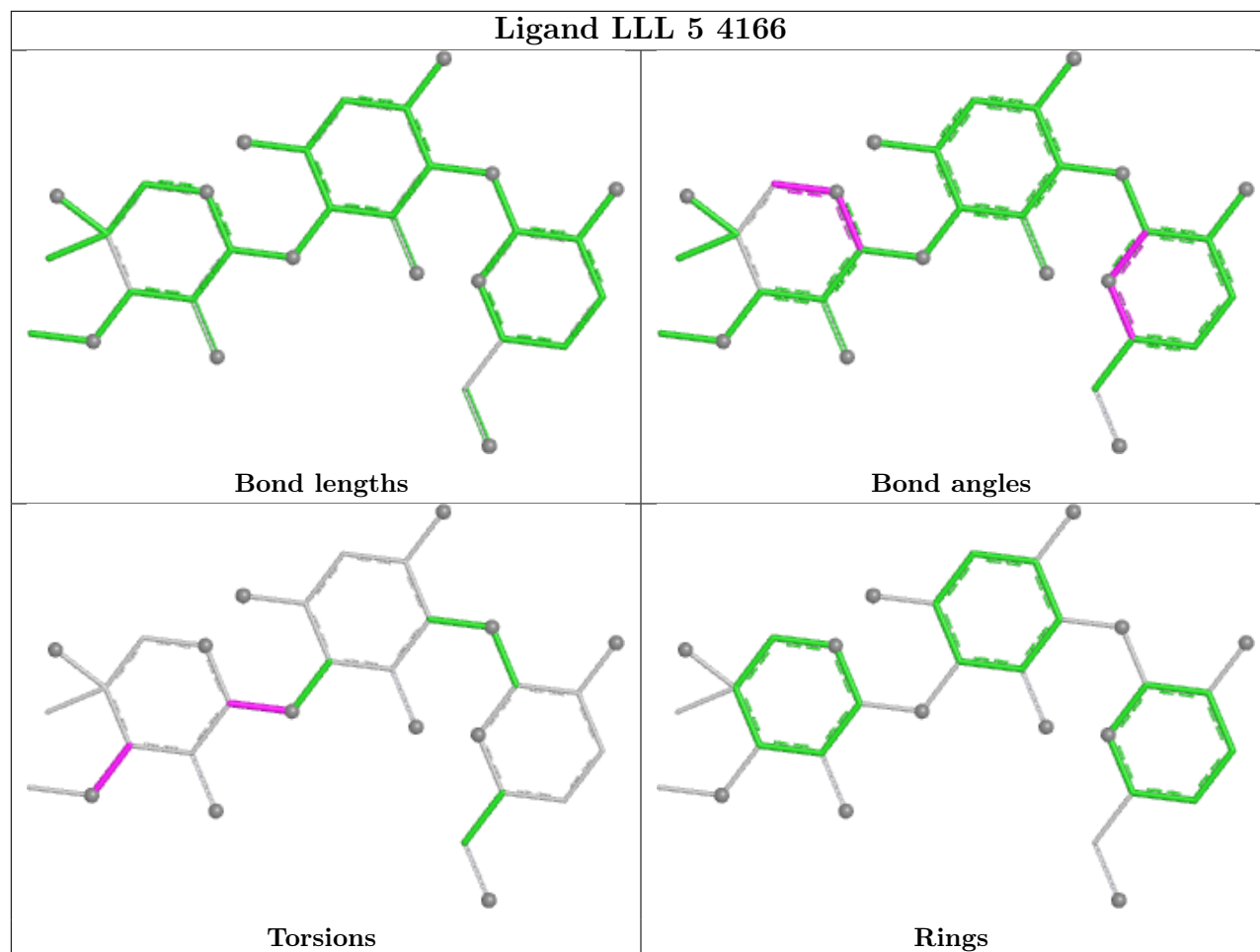
Ligand LLL 6 2166



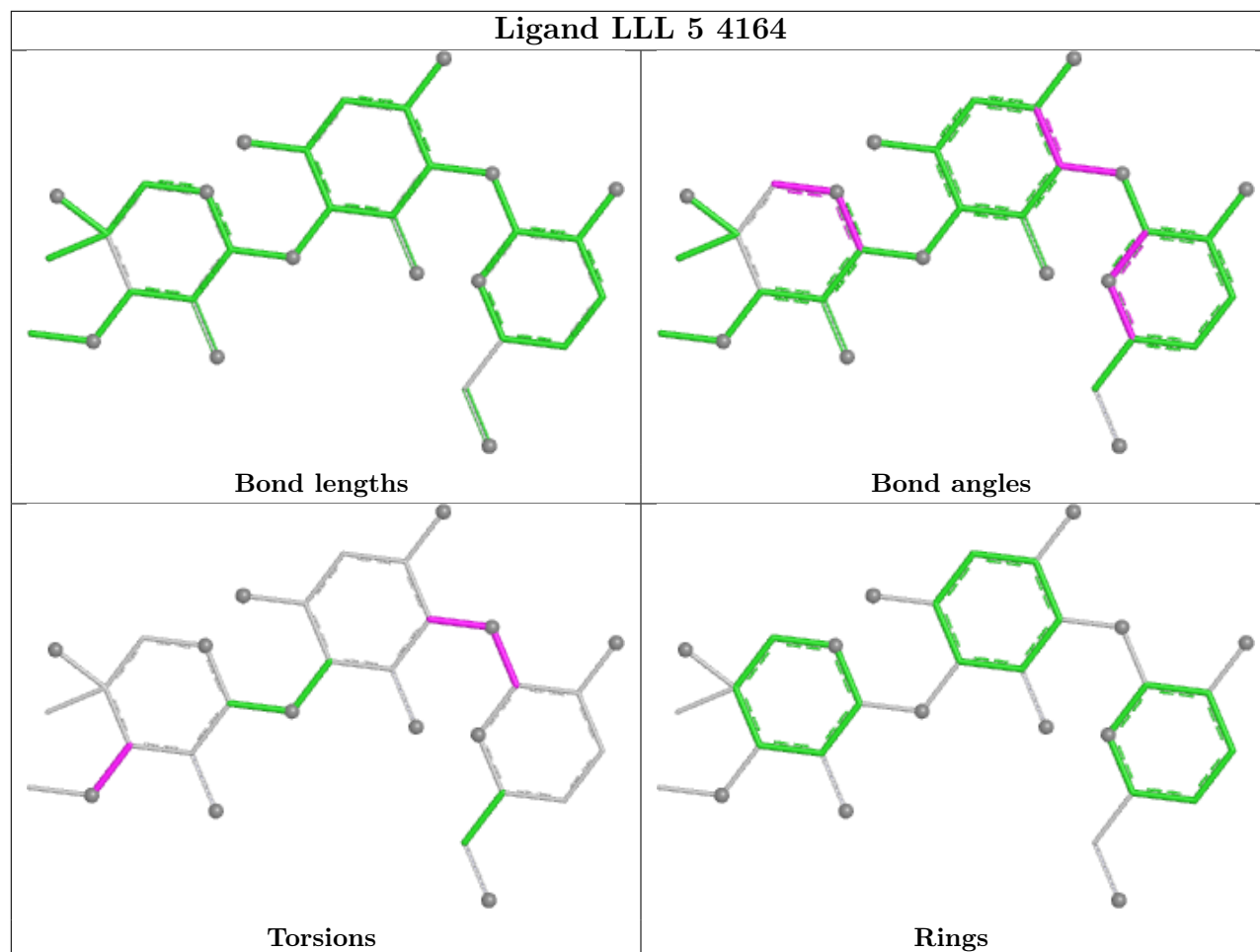
Ligand LLL 6 2165

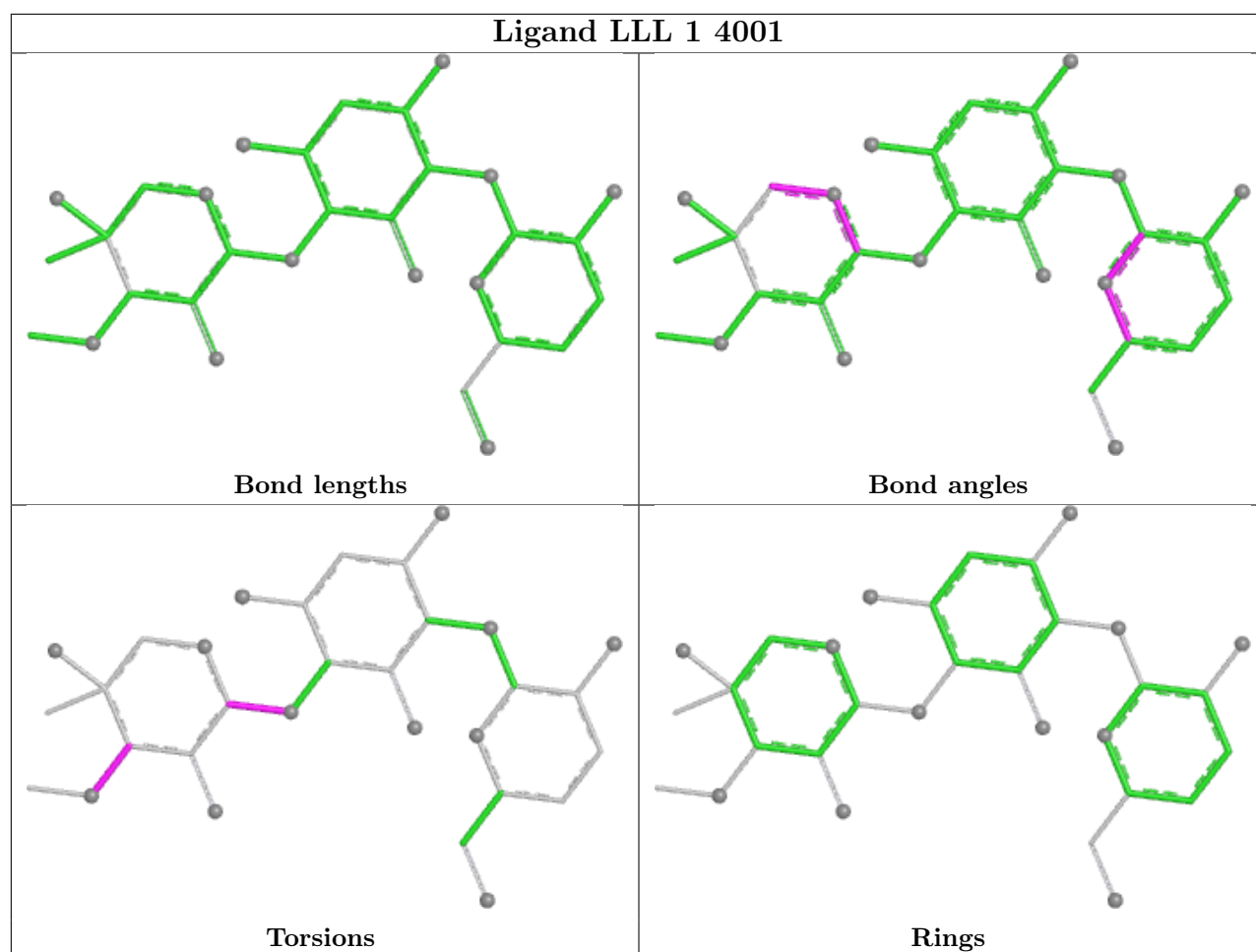


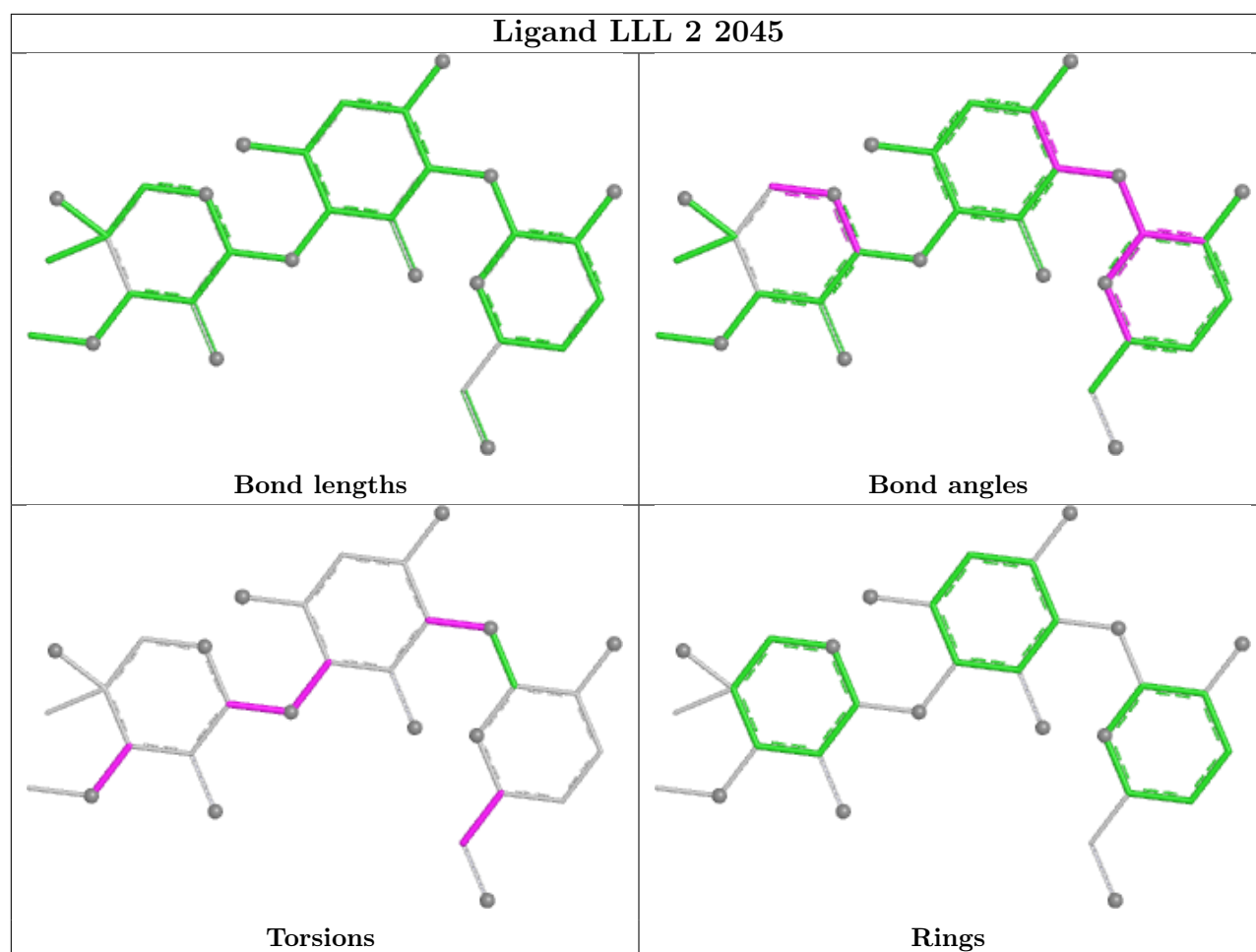
Ligand LLL 5 4166

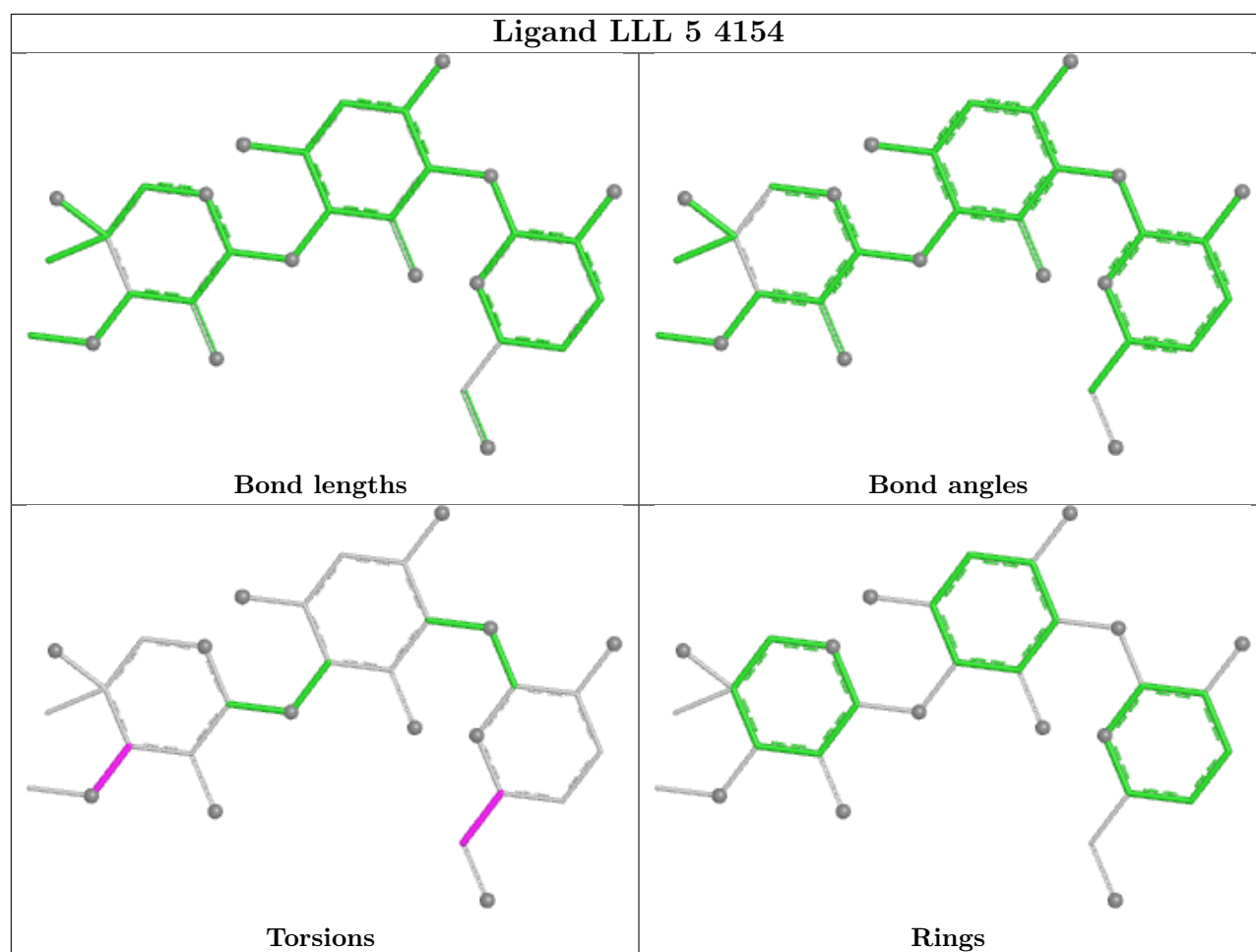


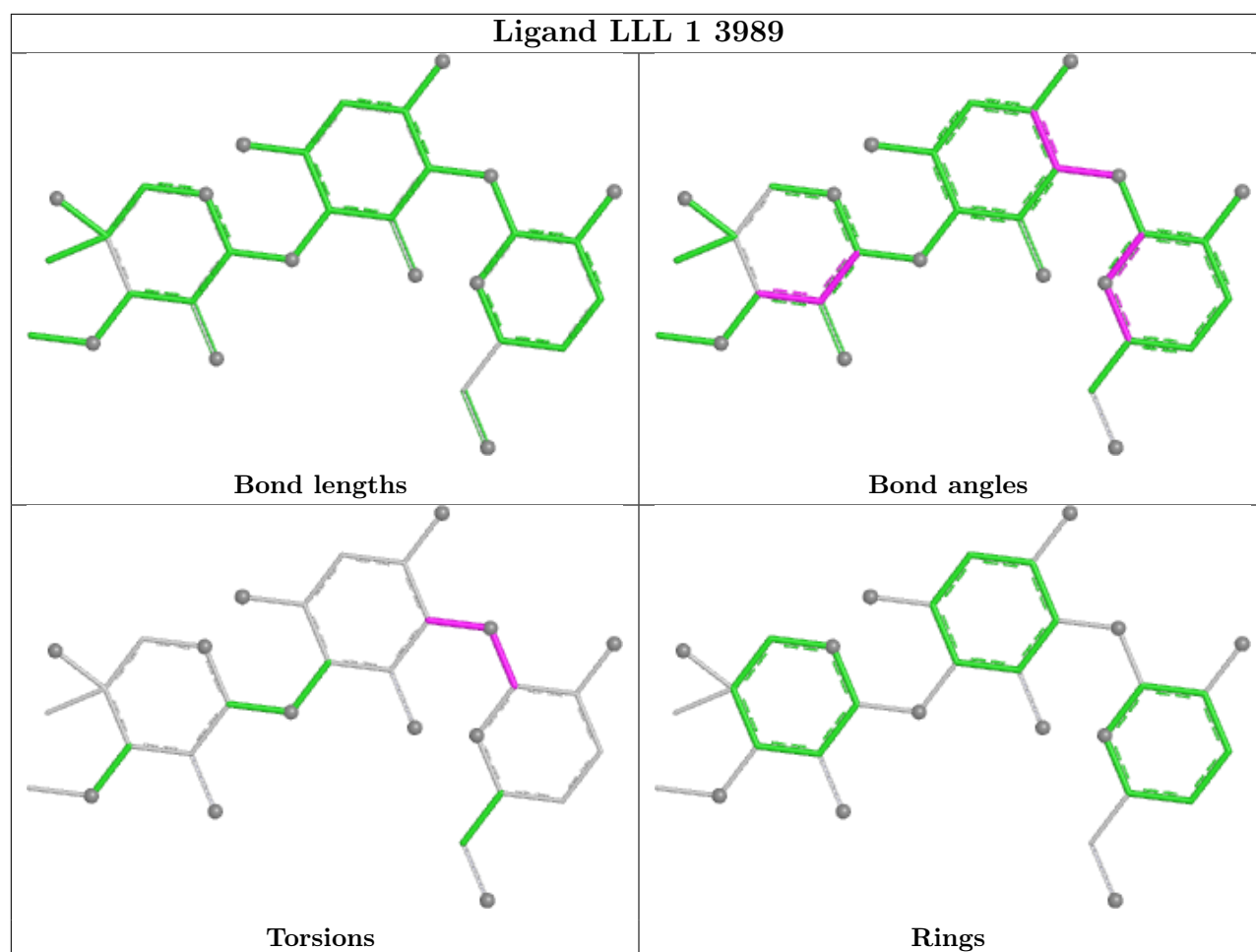
Ligand LLL 5 4164



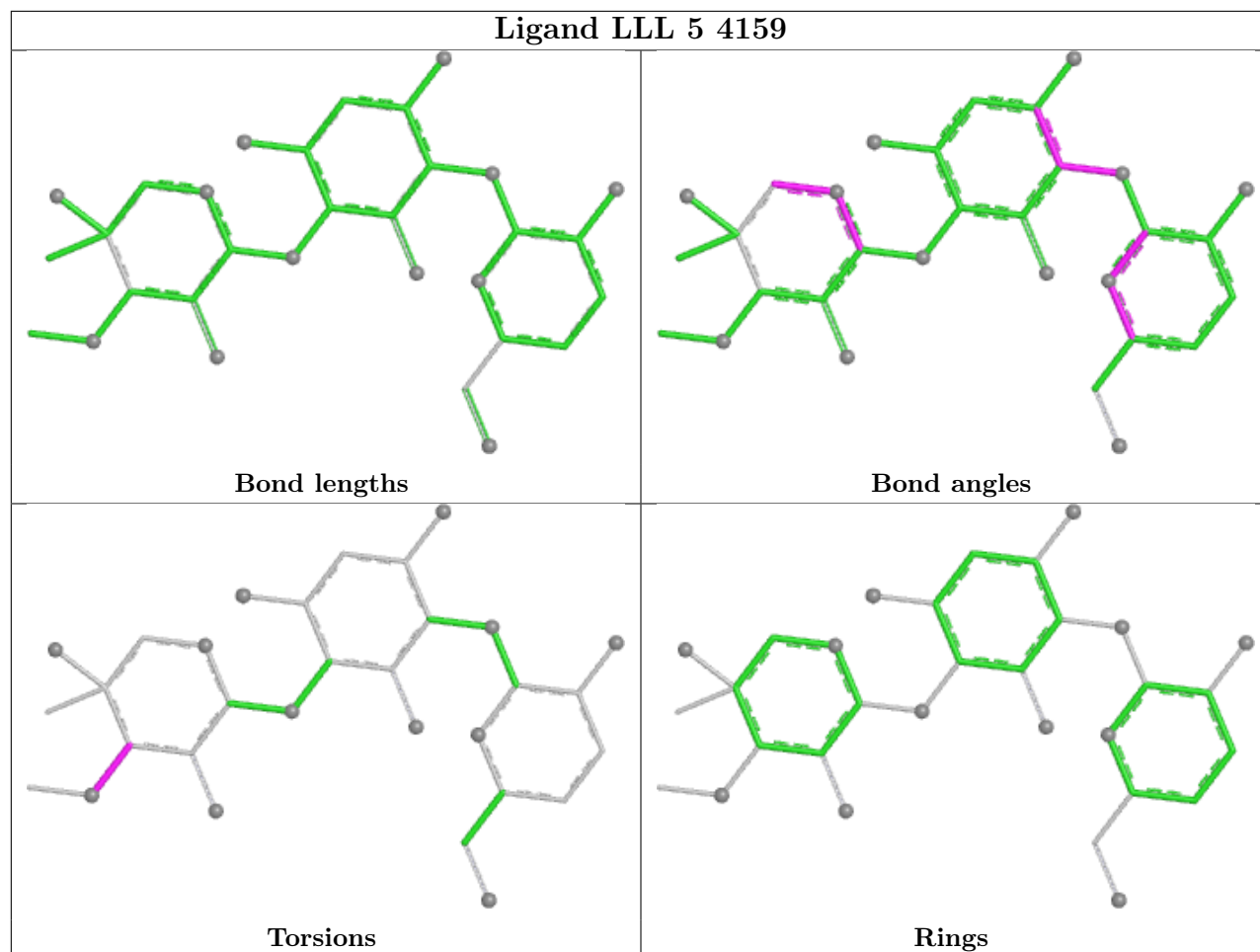


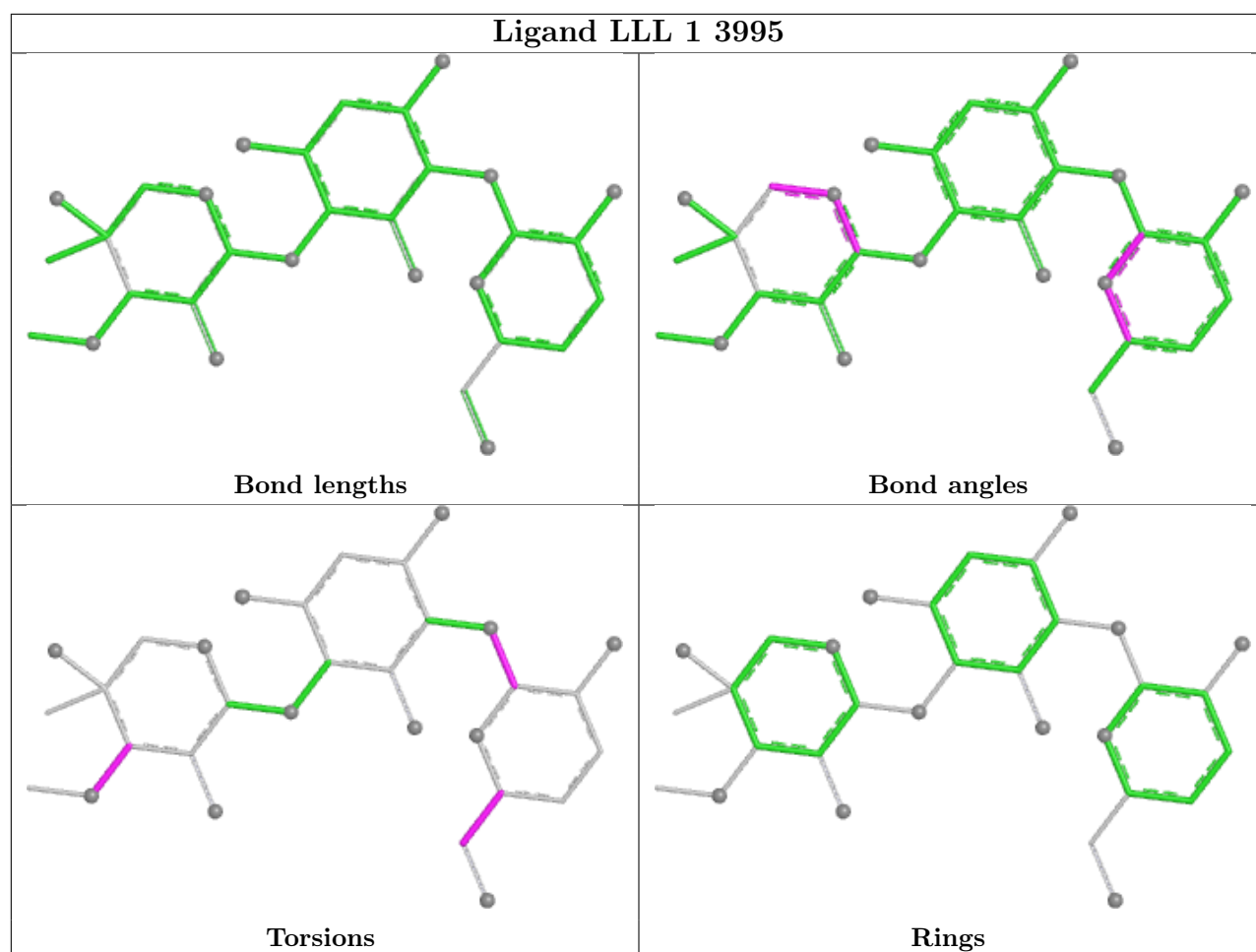




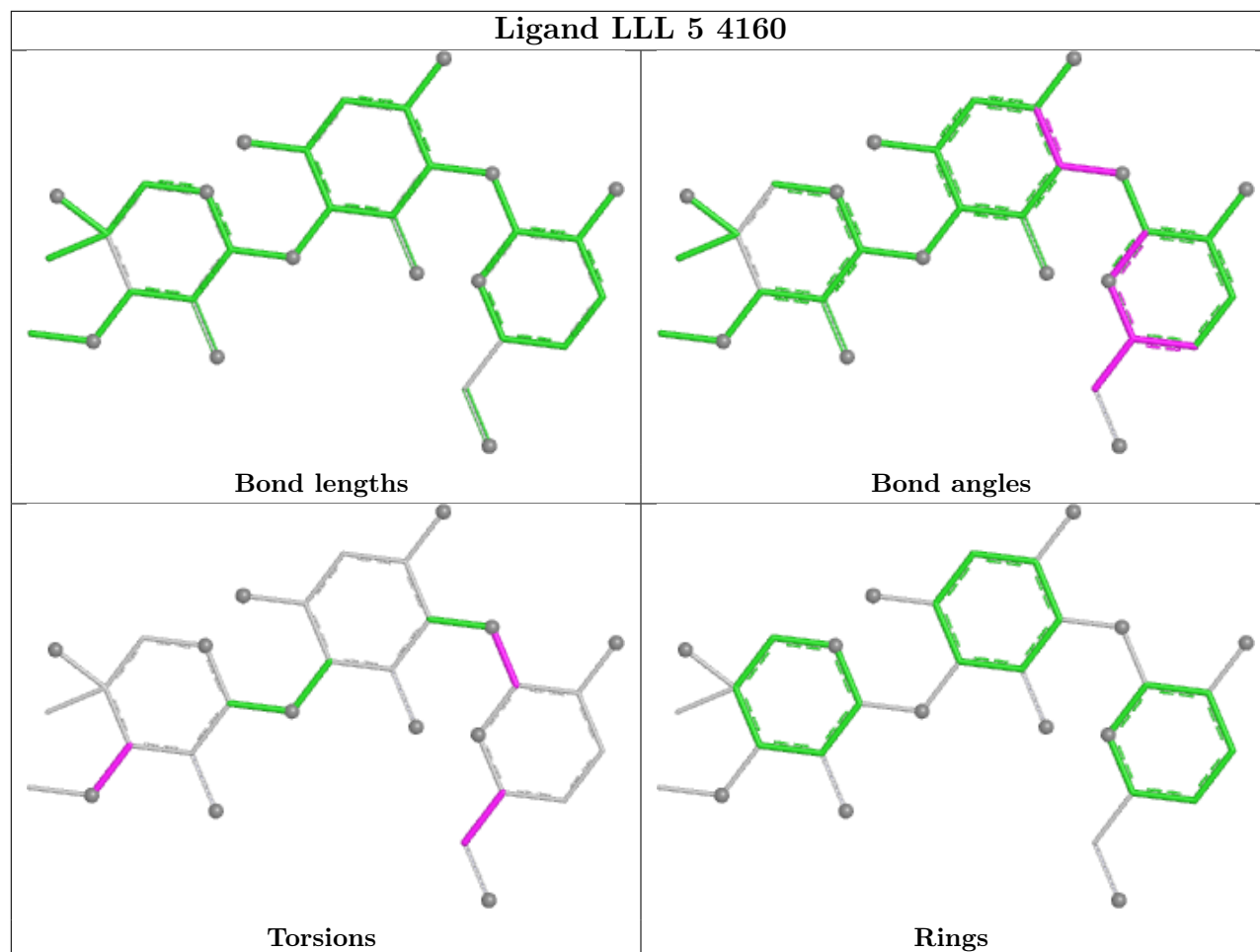


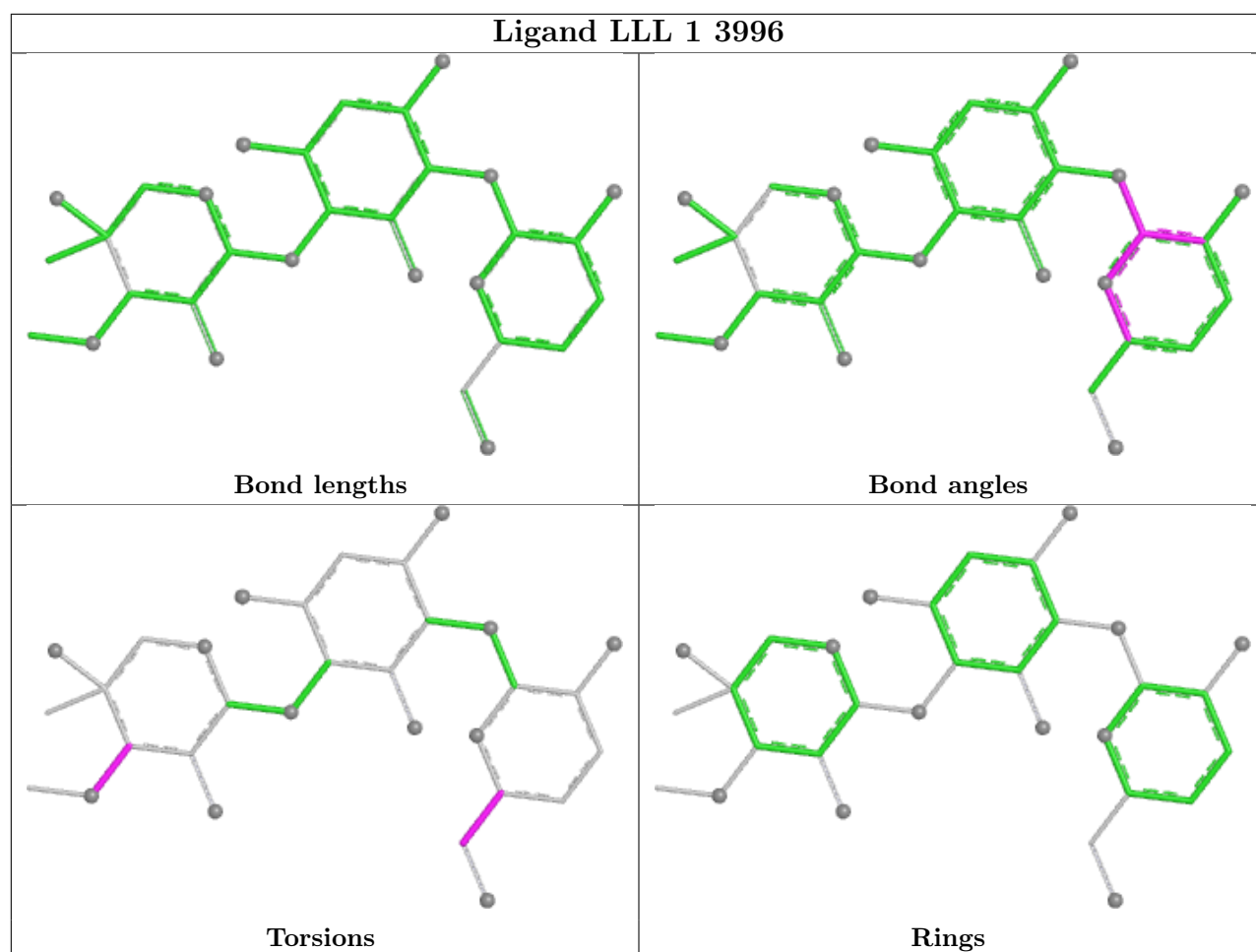
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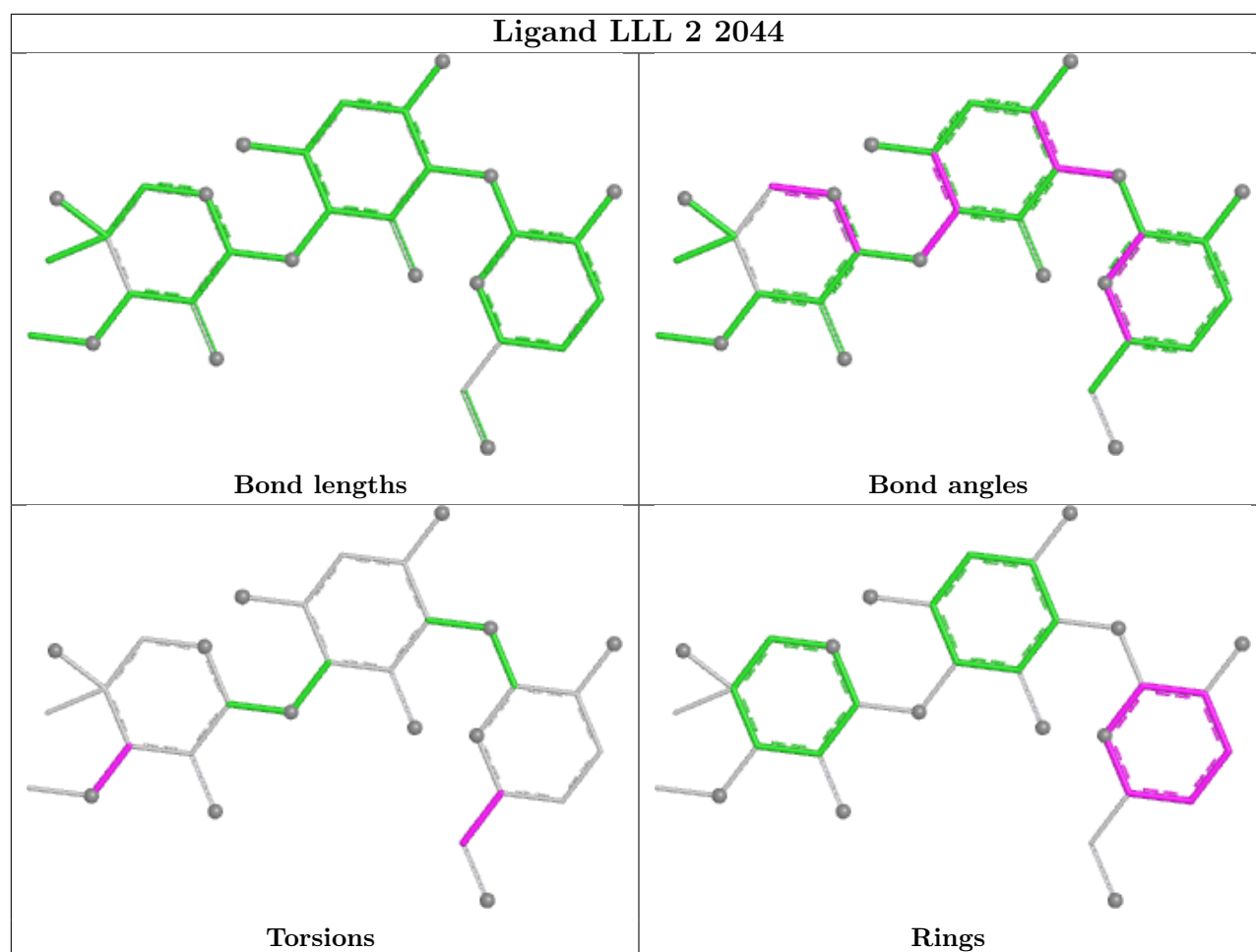




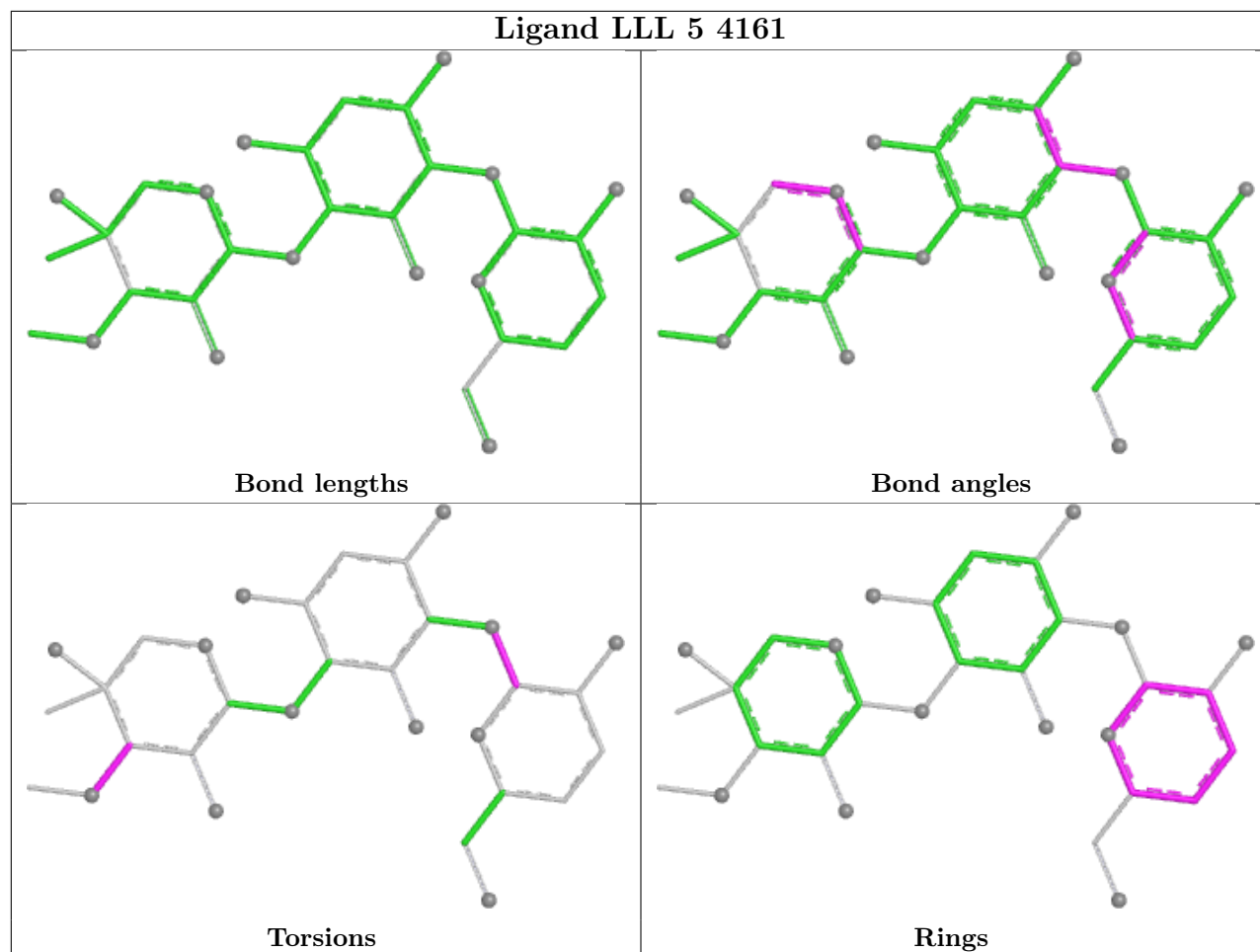
Ligand LLL 5 4160



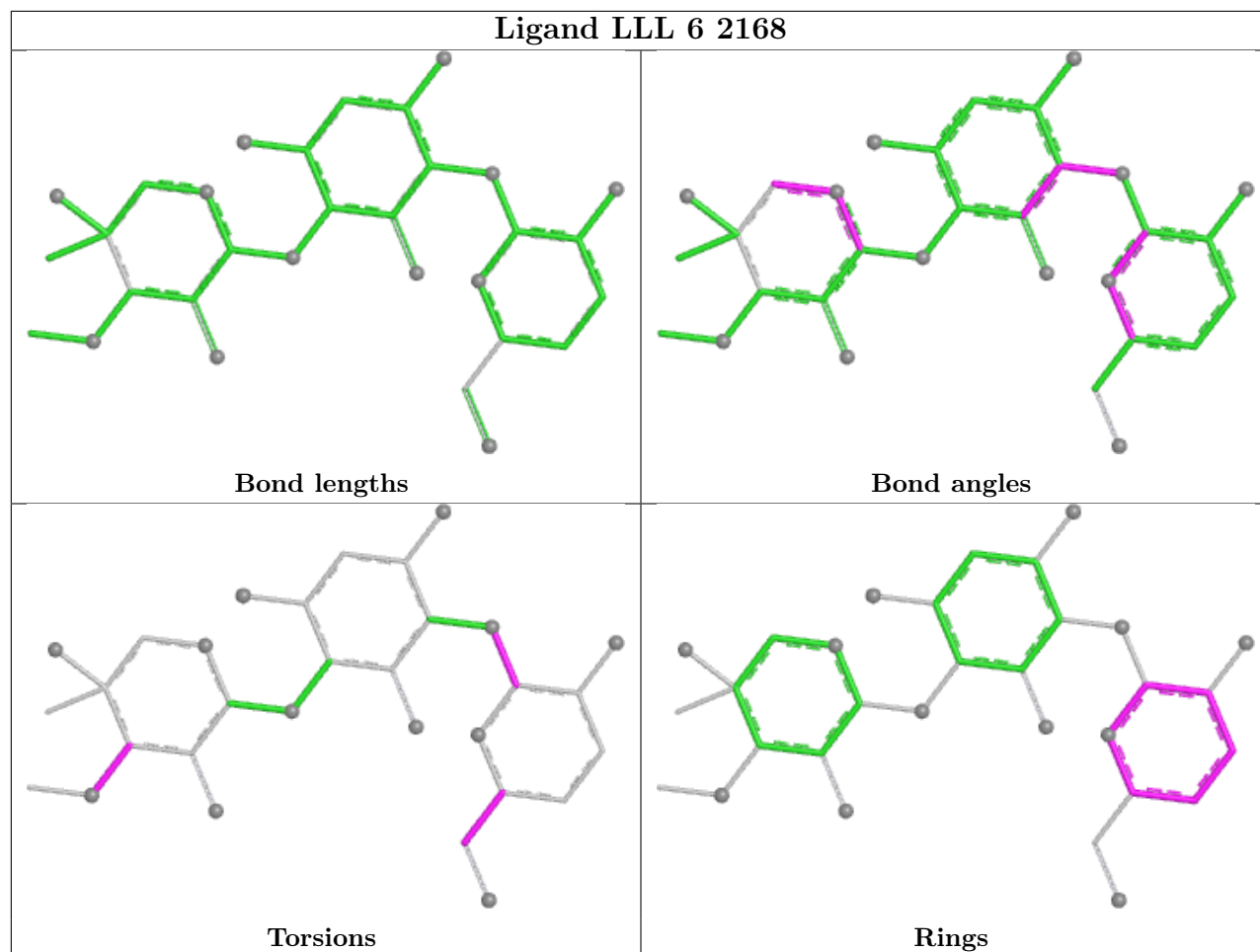




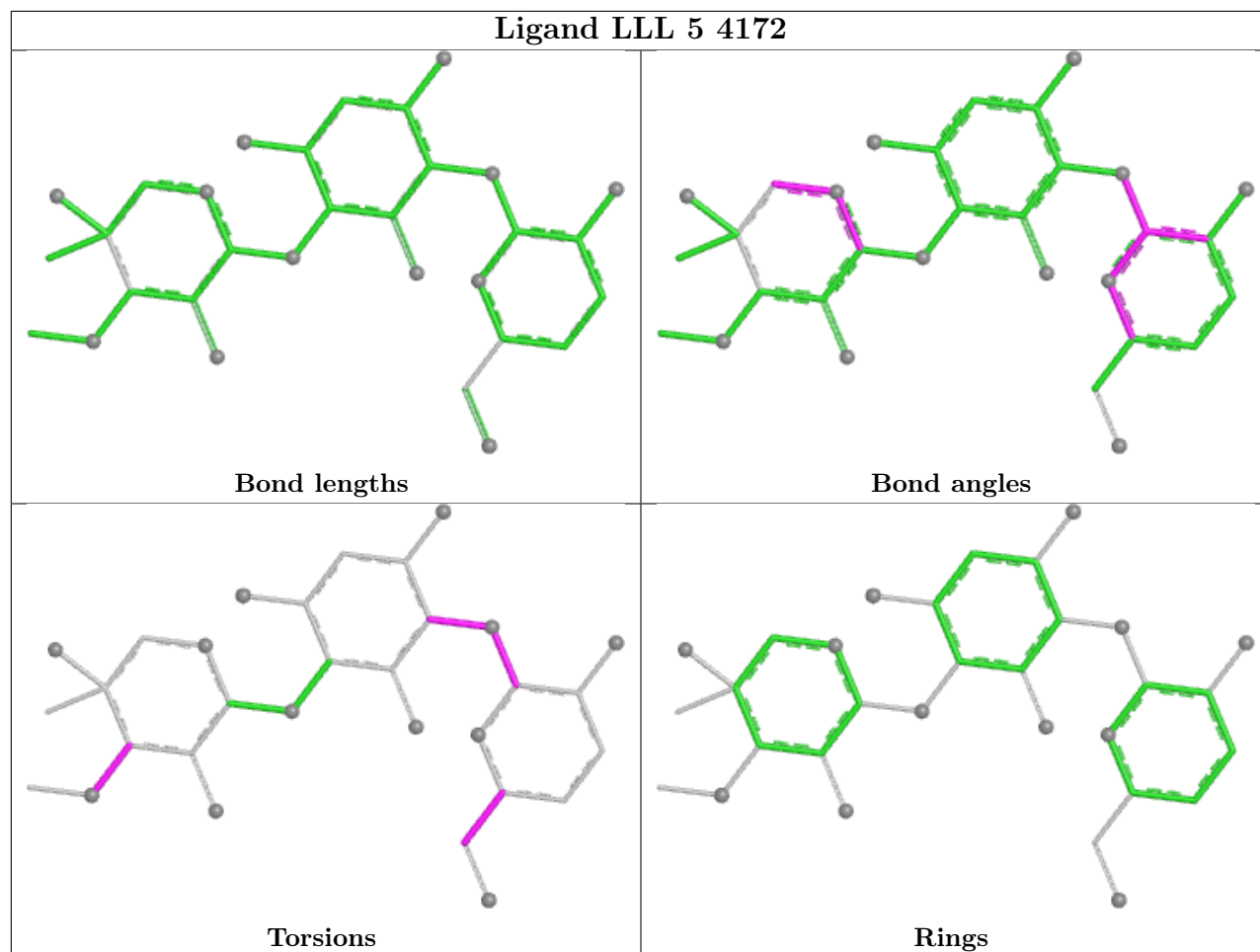
Ligand LLL 5 4161



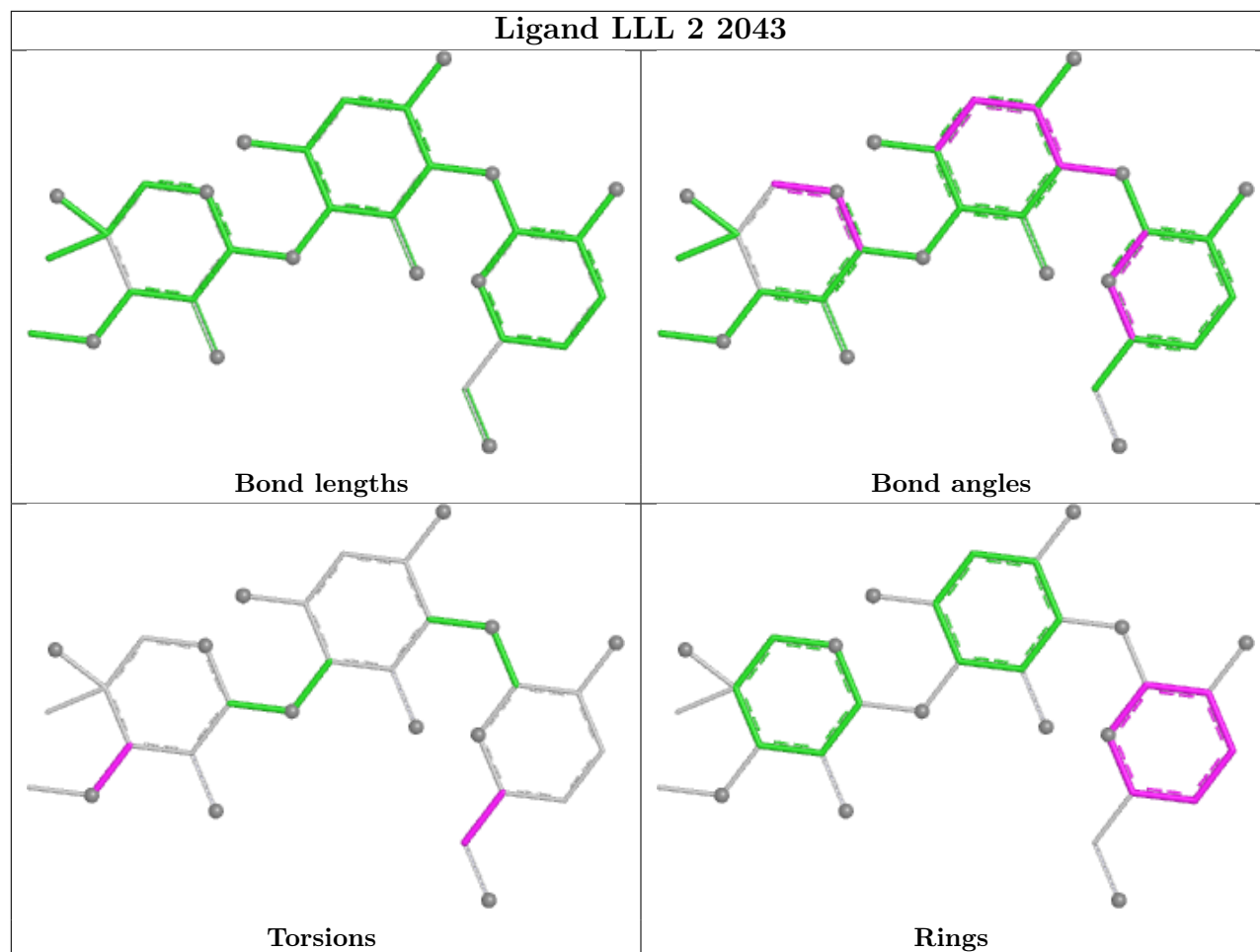
Ligand LLL 6 2168

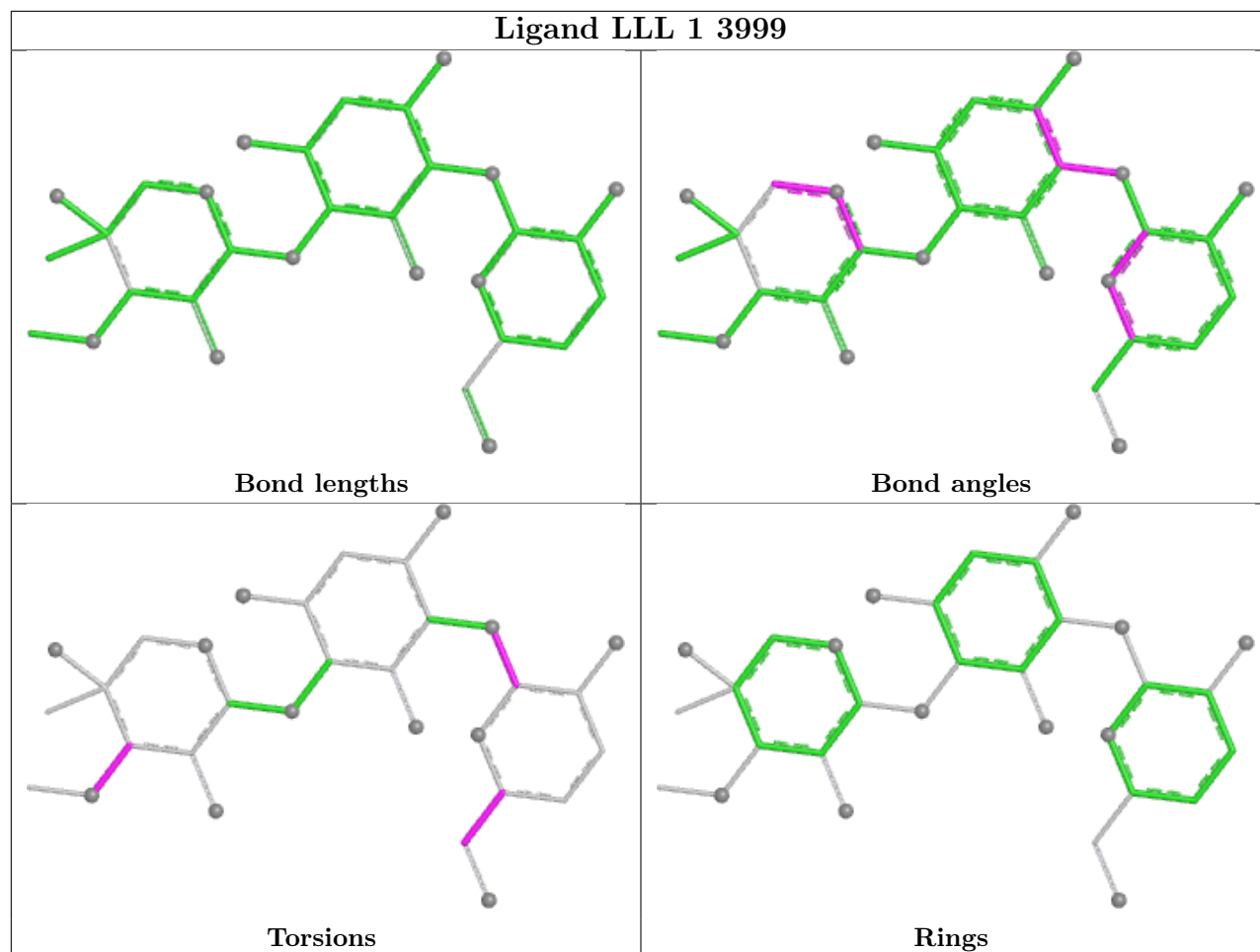


Ligand LLL 5 4172

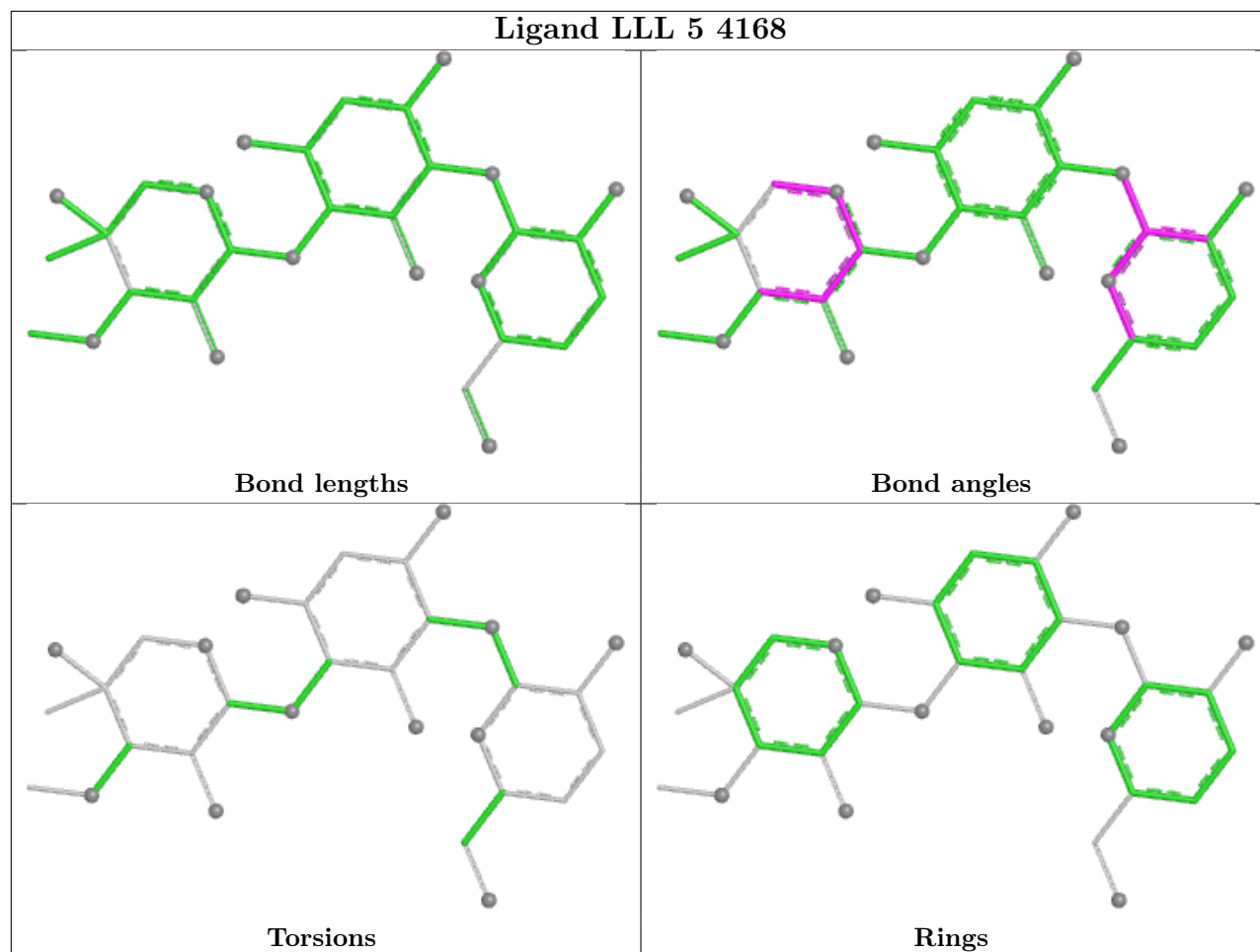


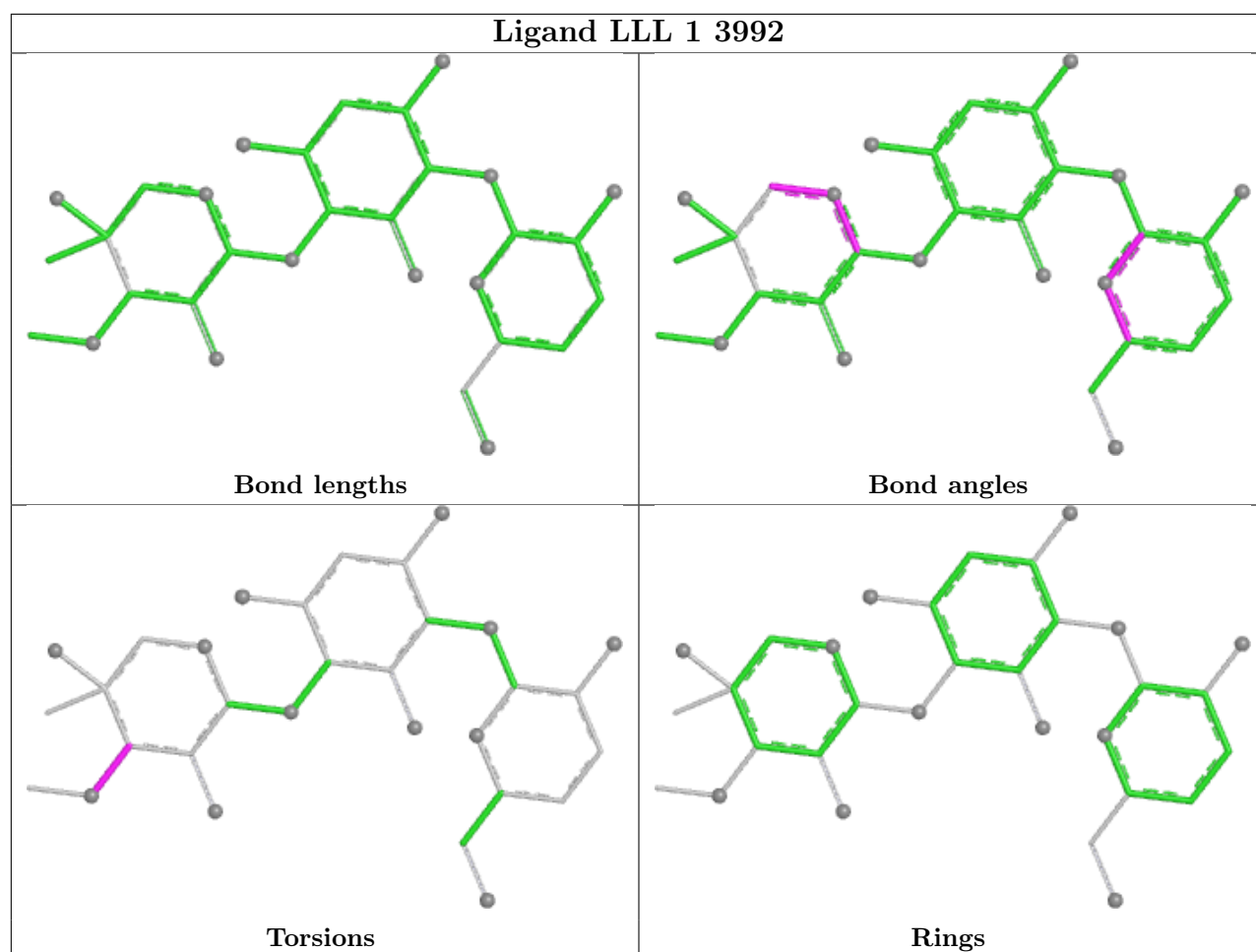
Ligand LLL 2 2043



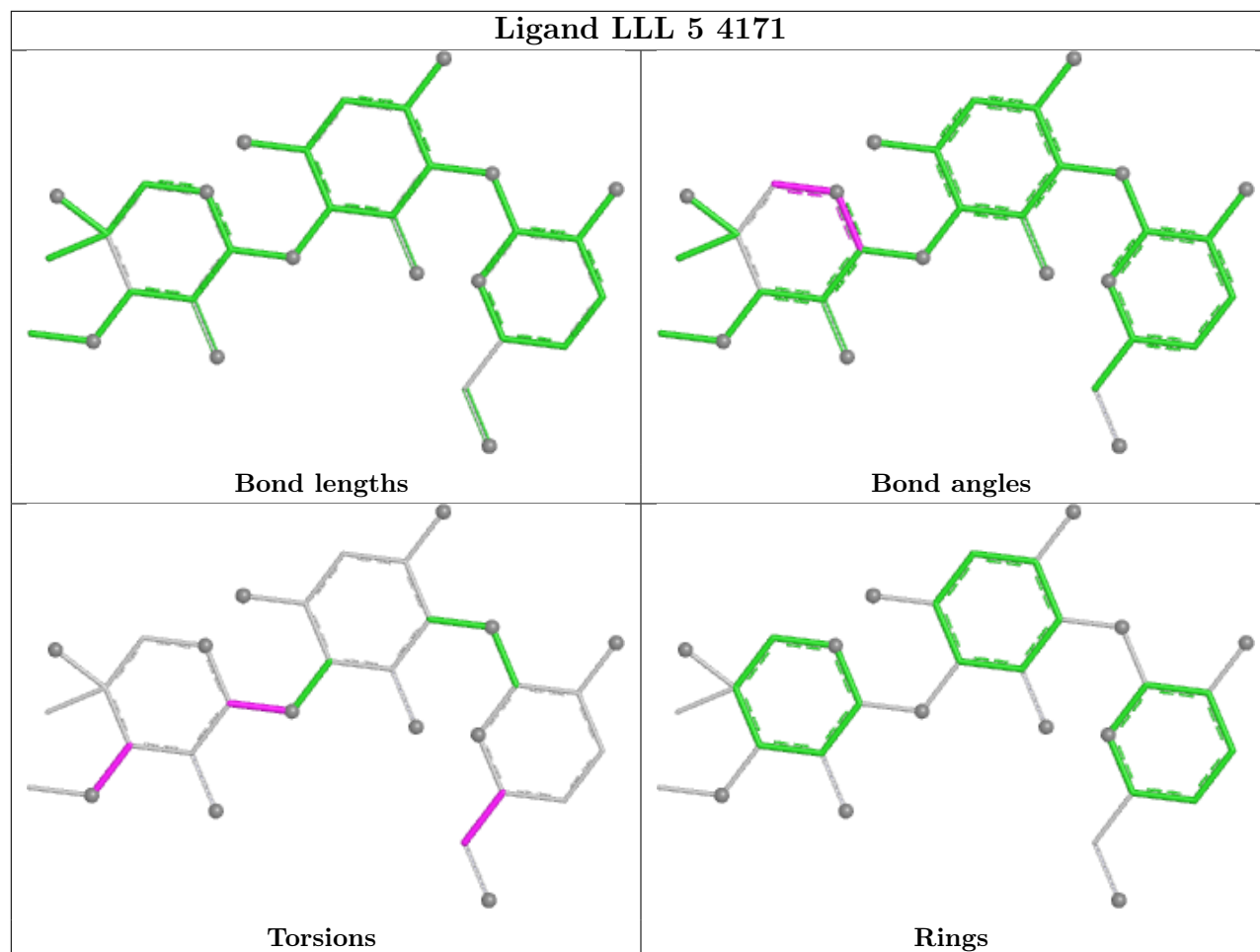


Ligand LLL 5 4168

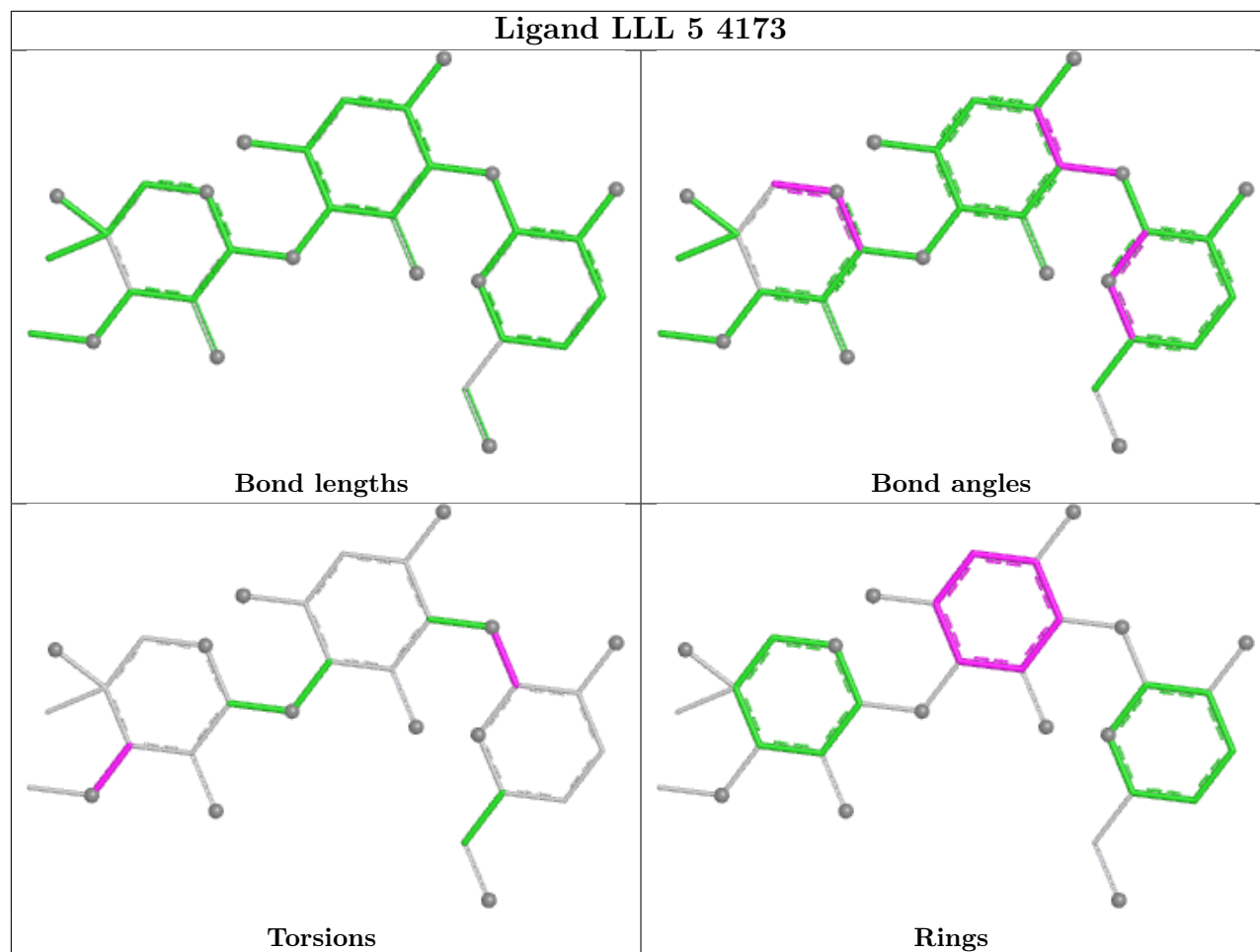


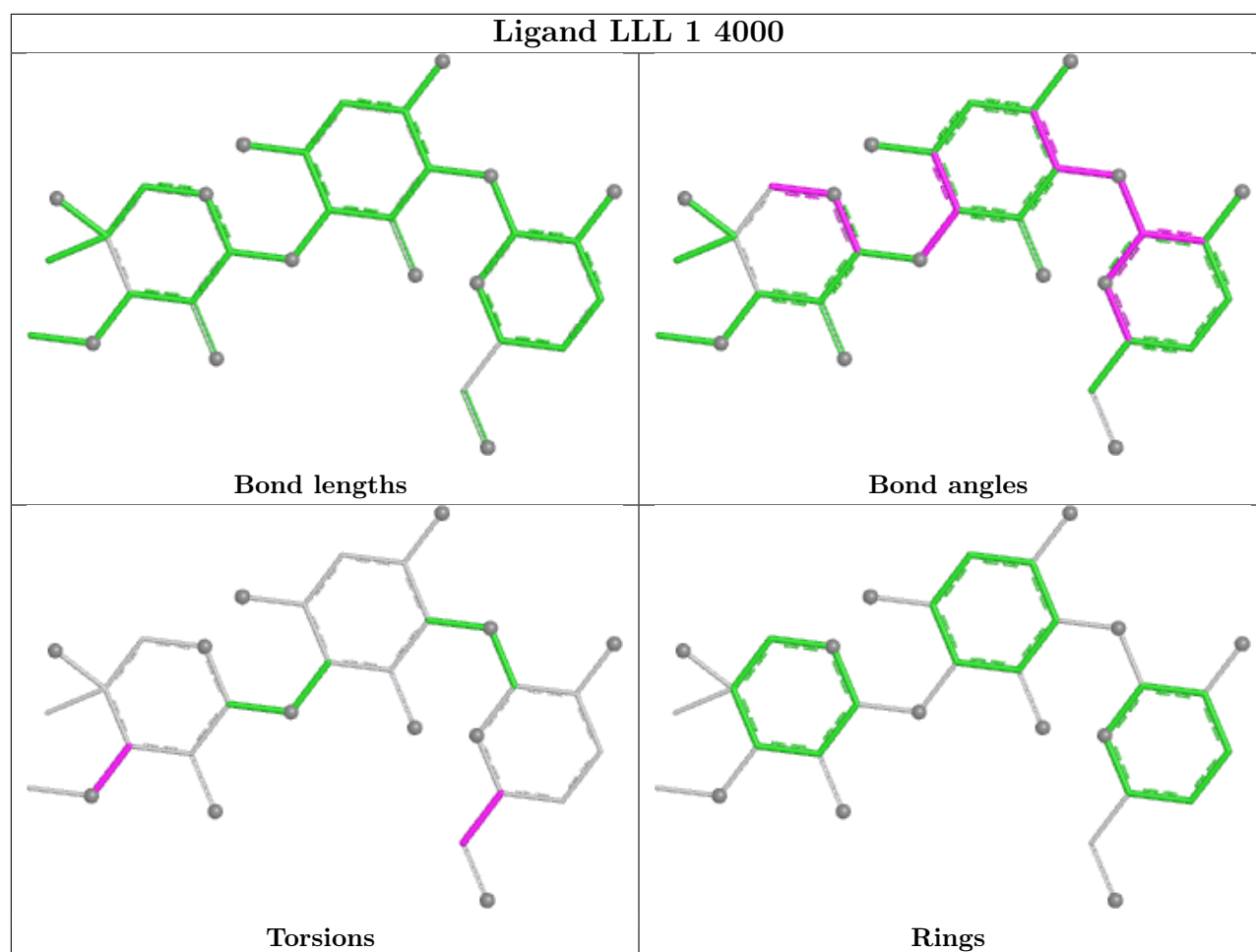


Ligand LLL 5 4171

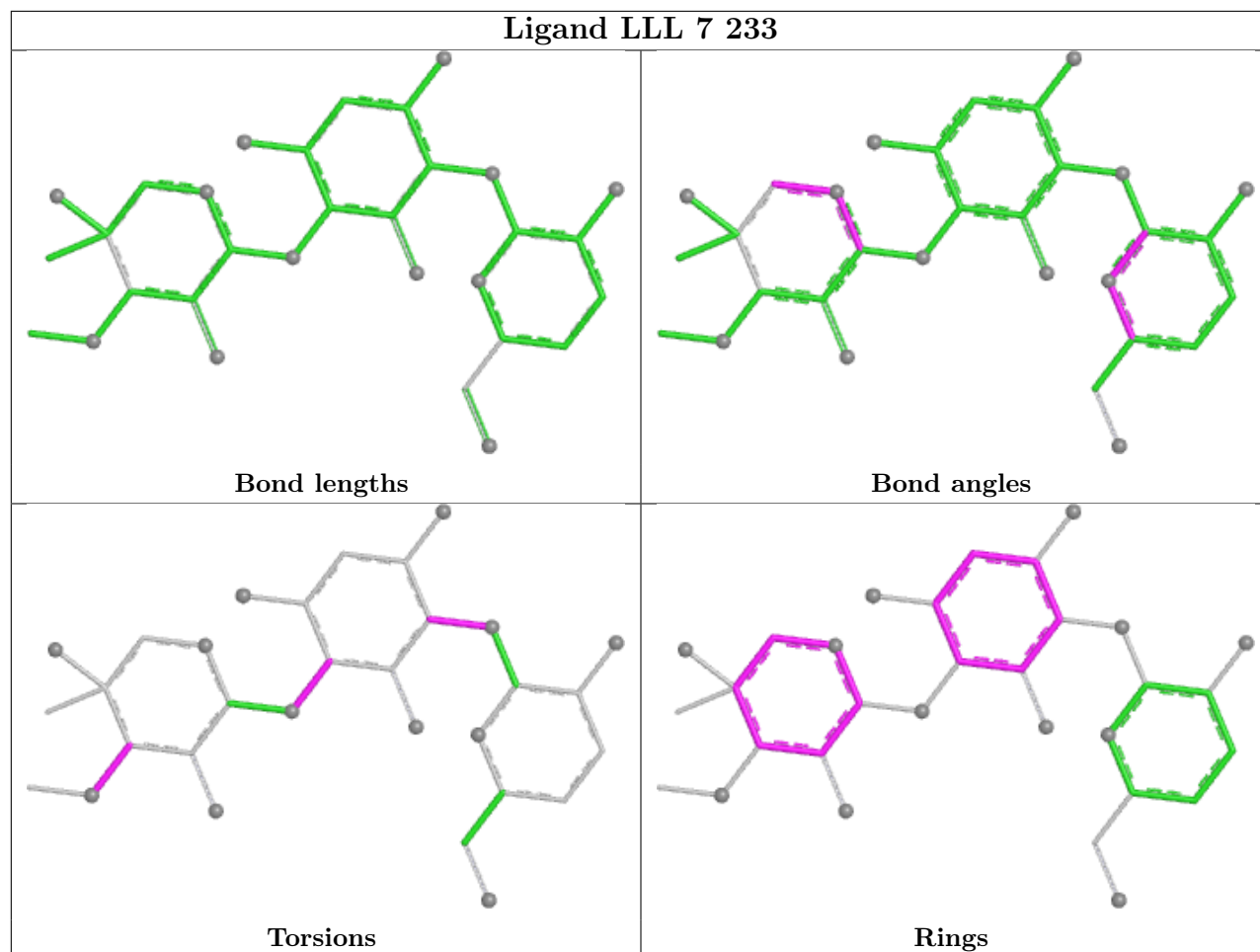


Ligand LLL 5 4173

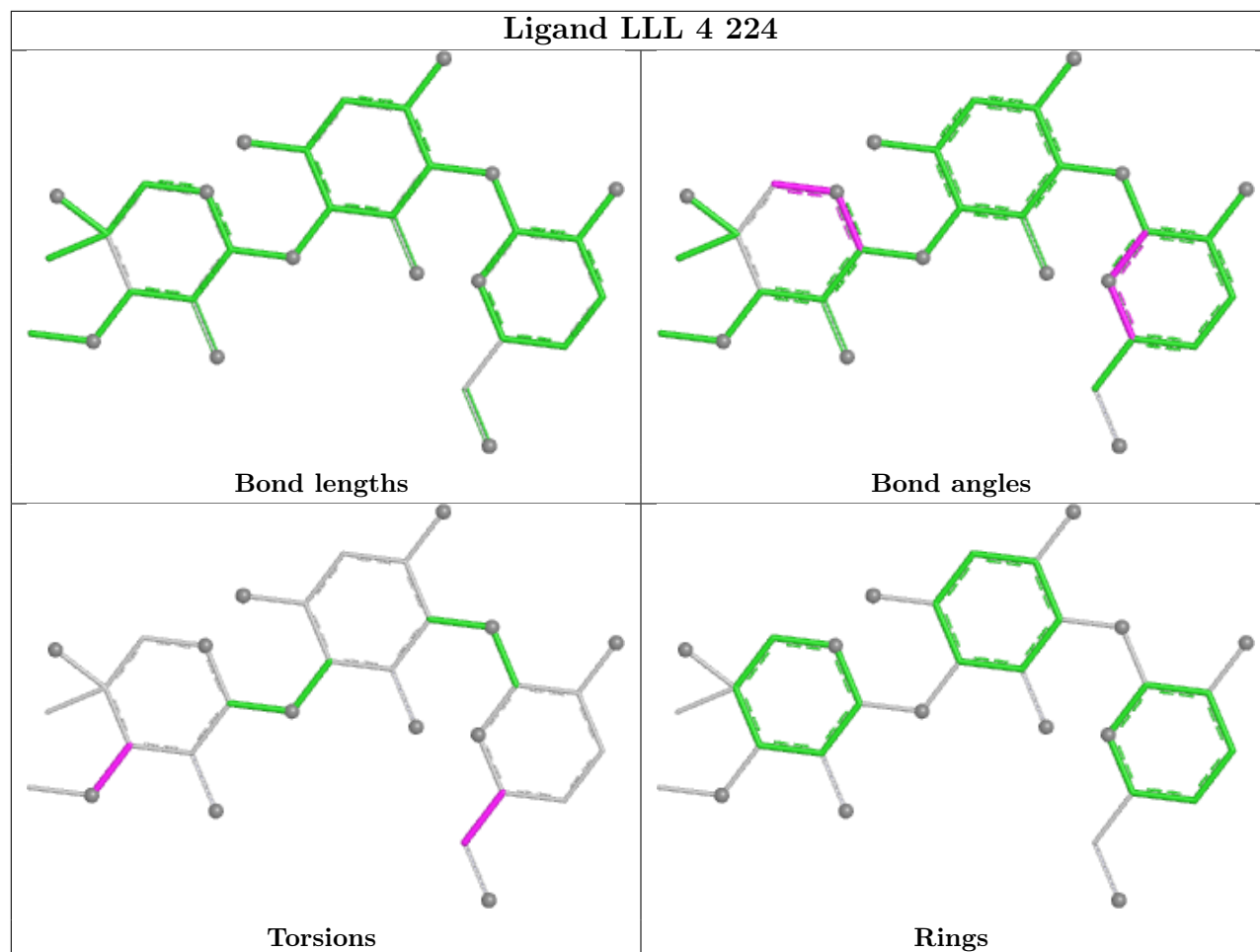




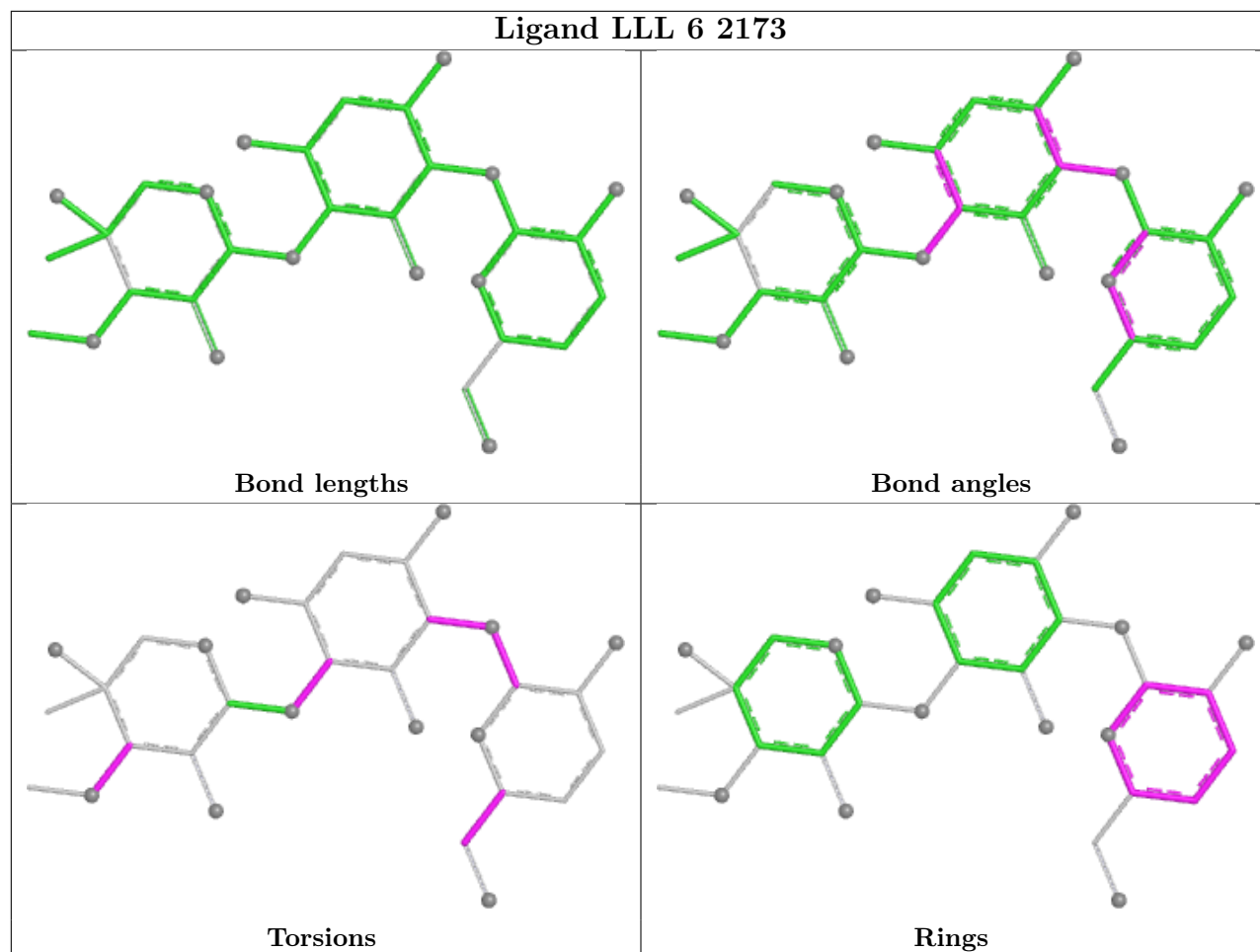
Ligand LLL 7 233

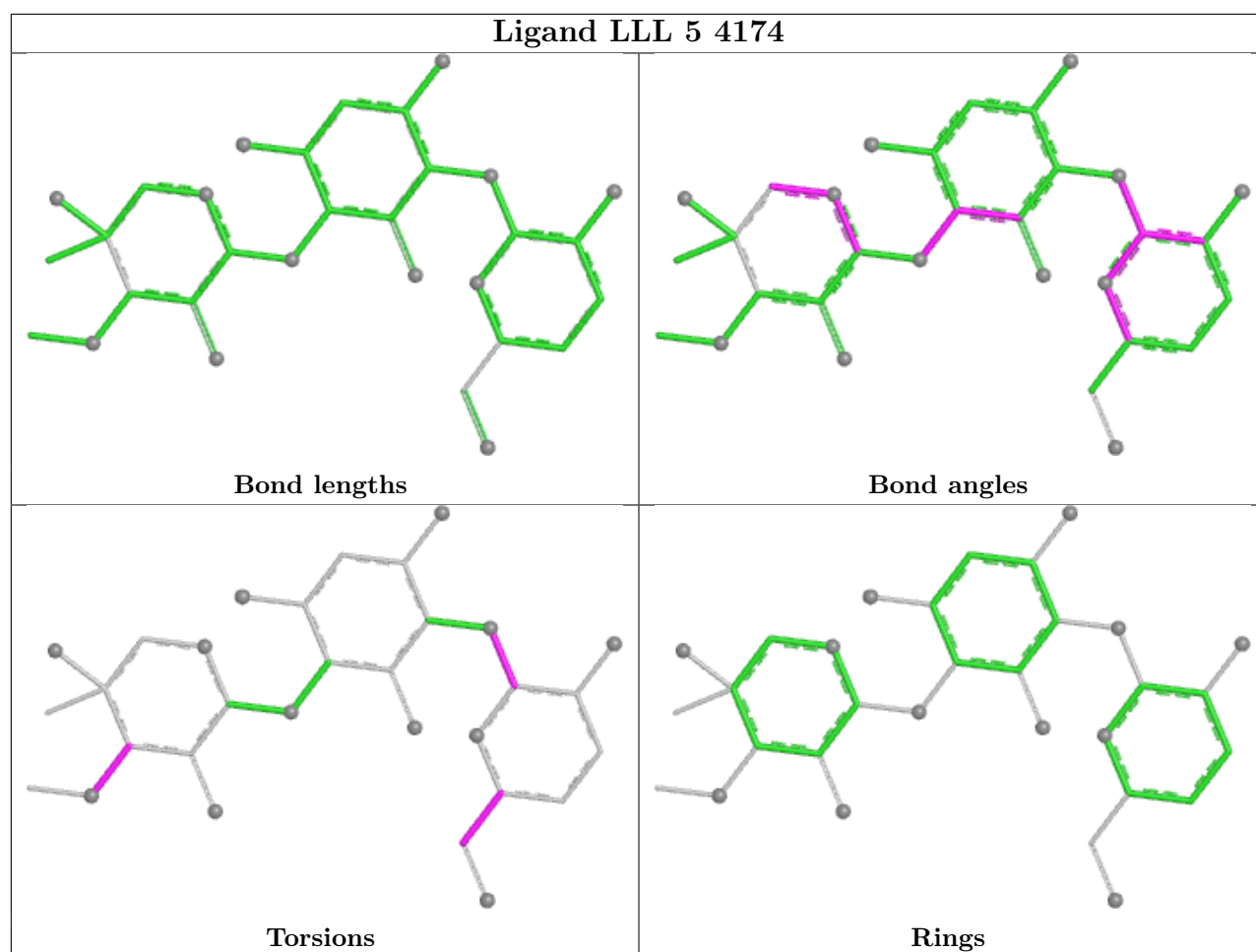


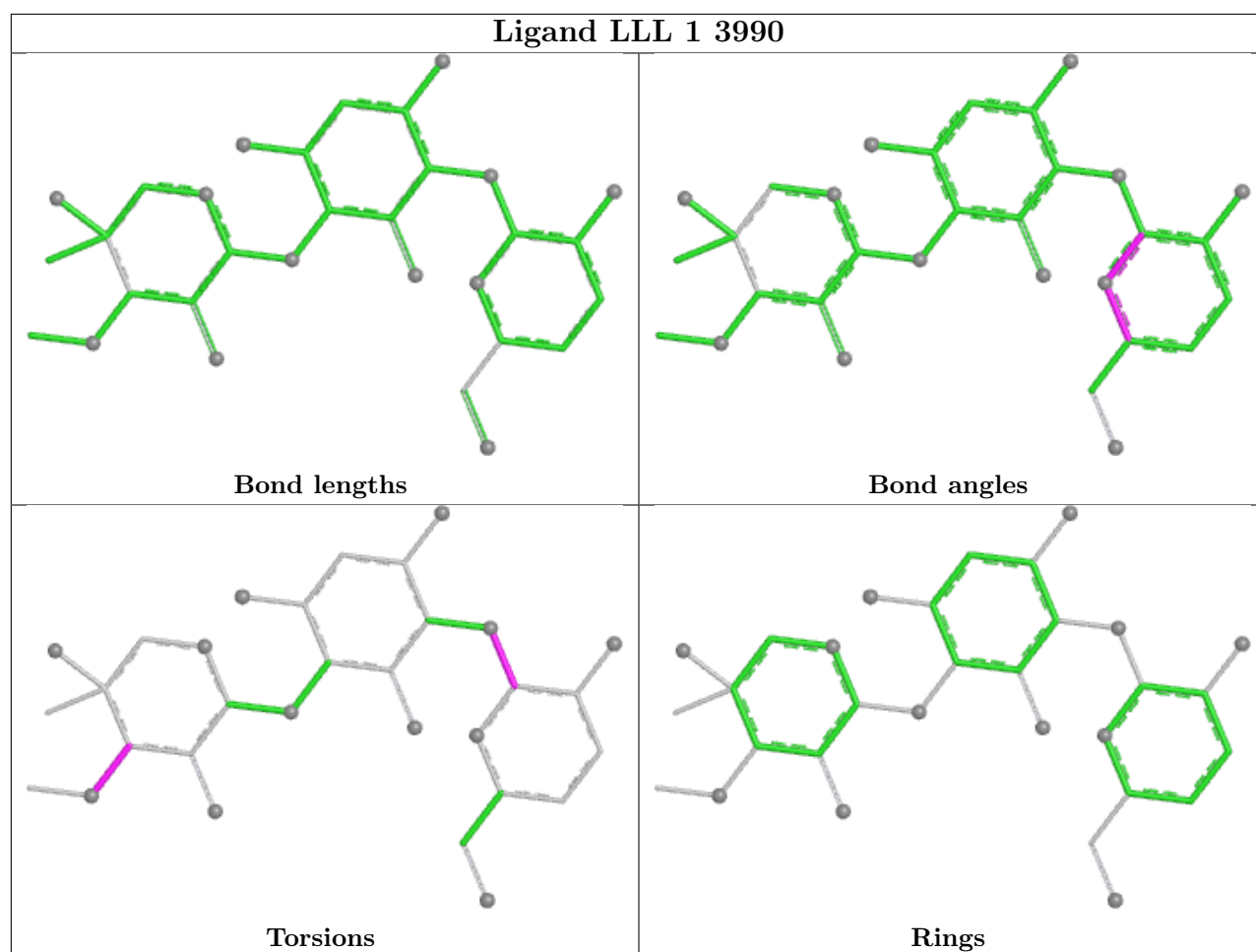
Ligand LLL 4 224



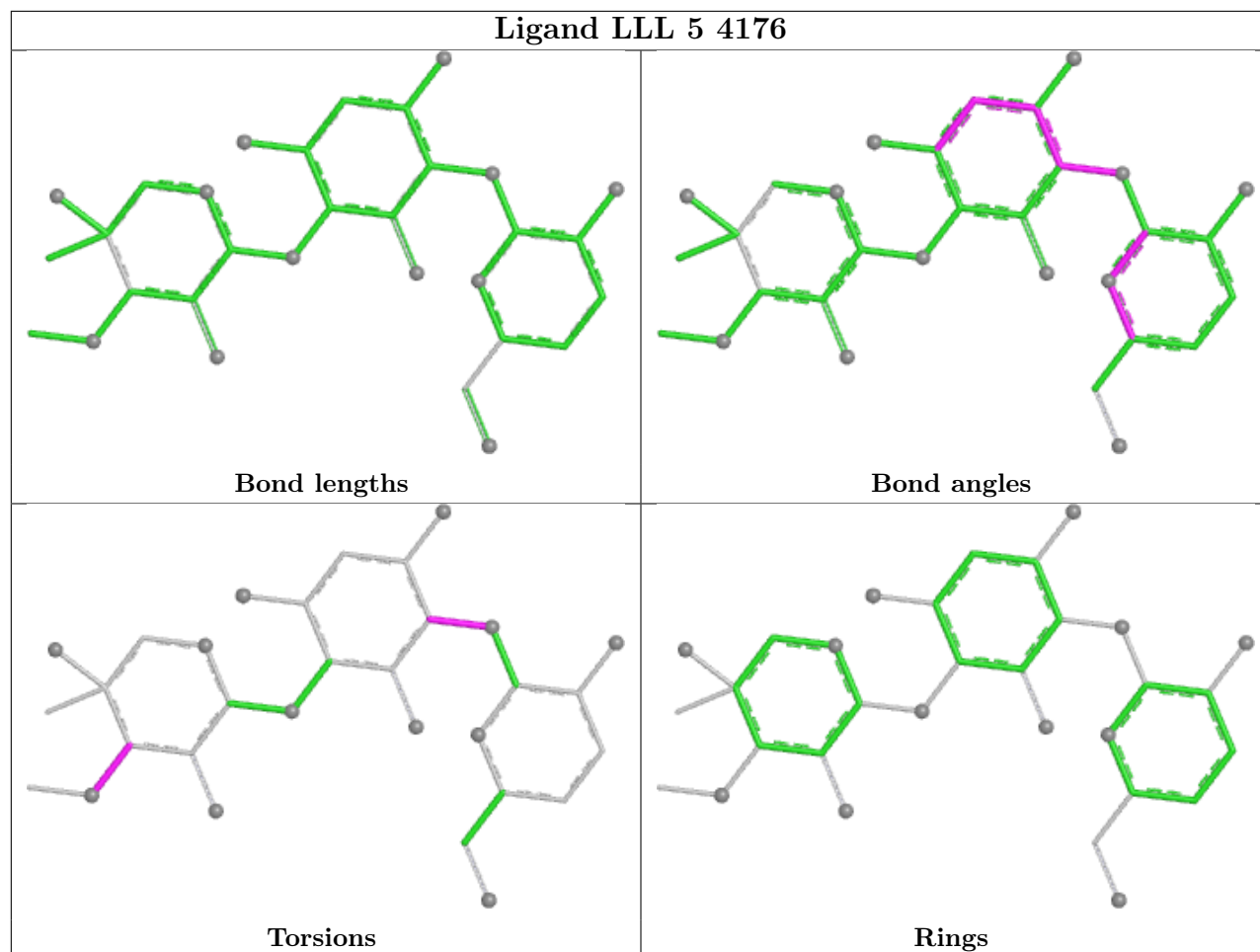
Ligand LLL 6 2173



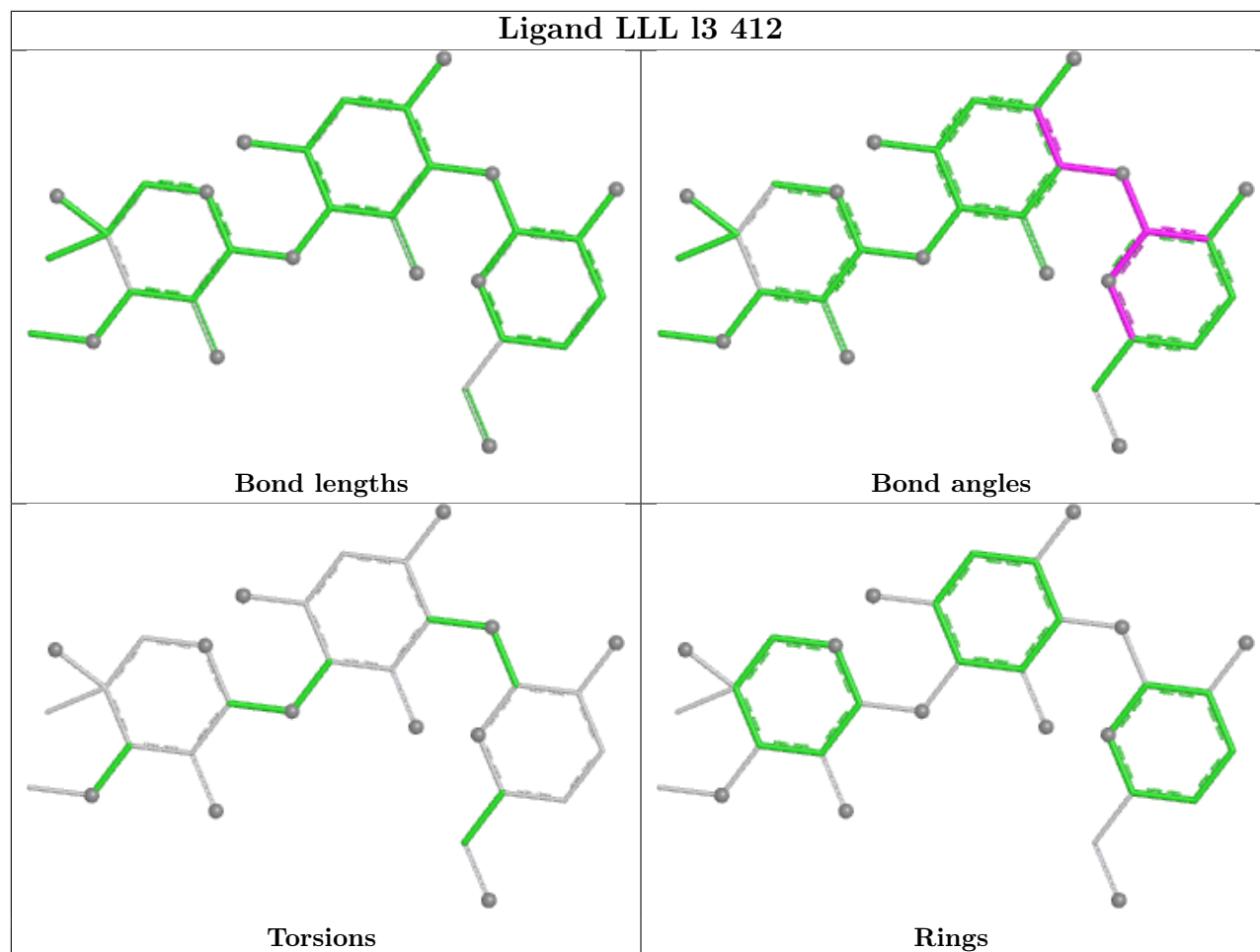


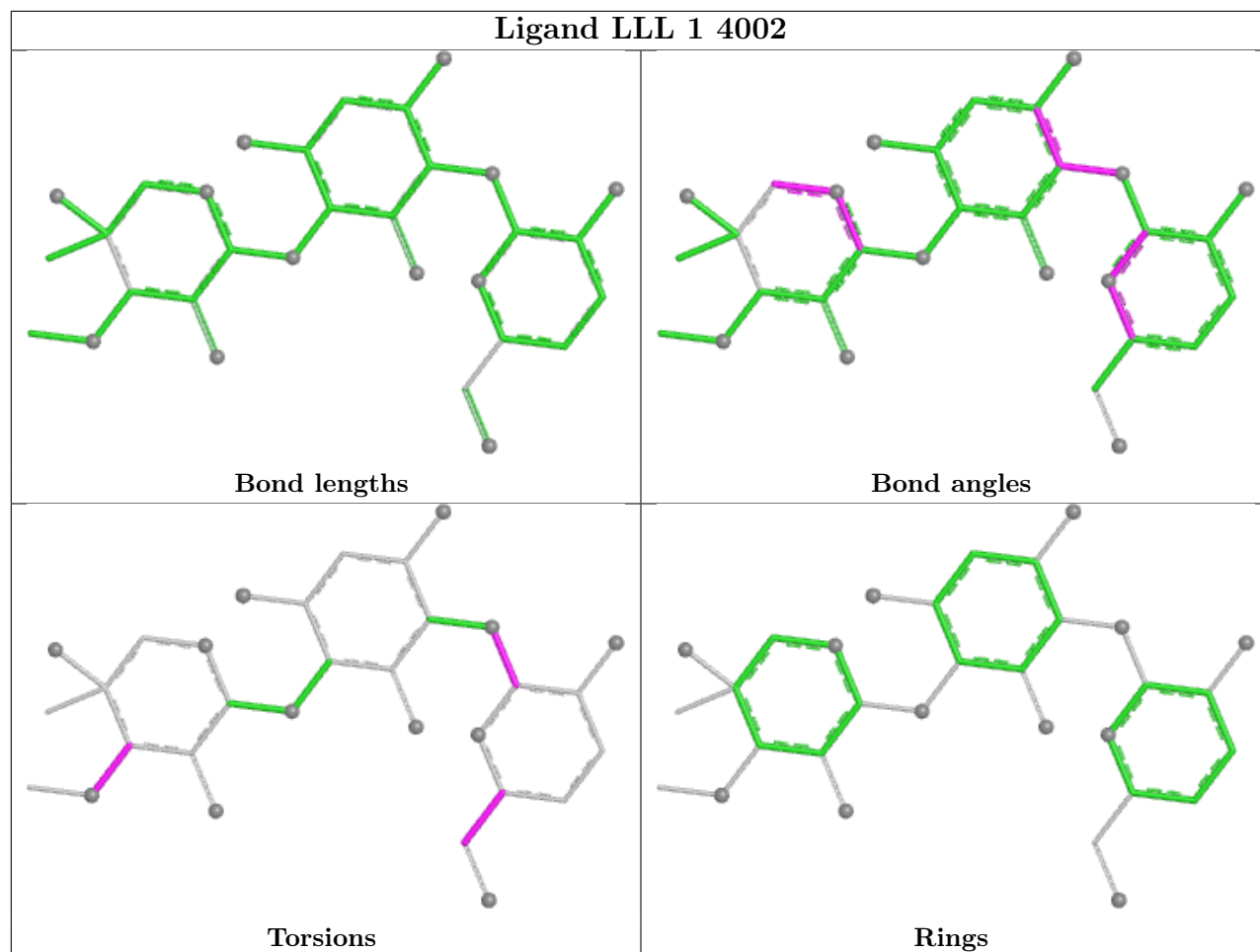


Ligand LLL 5 4176

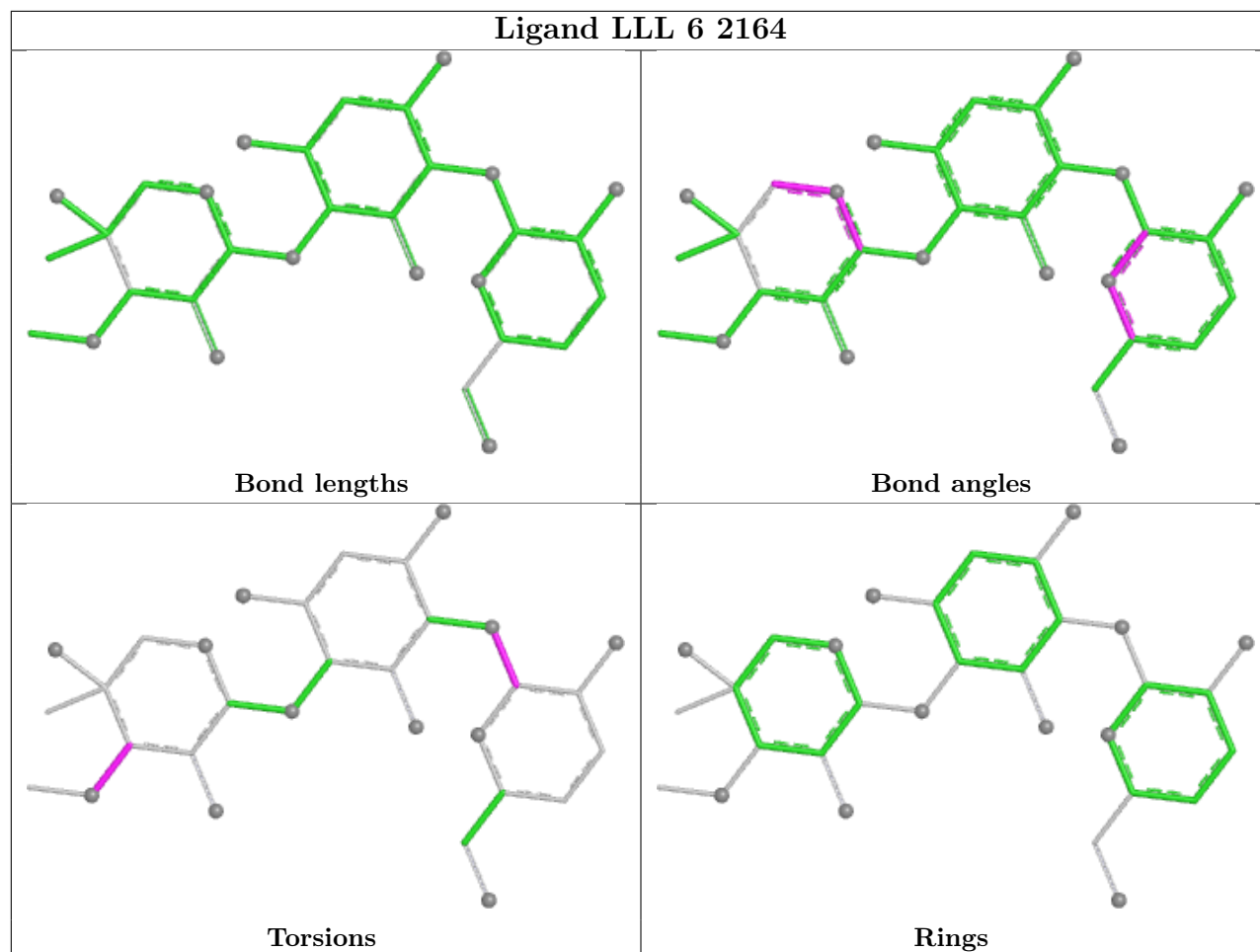


Ligand LLL 13 412

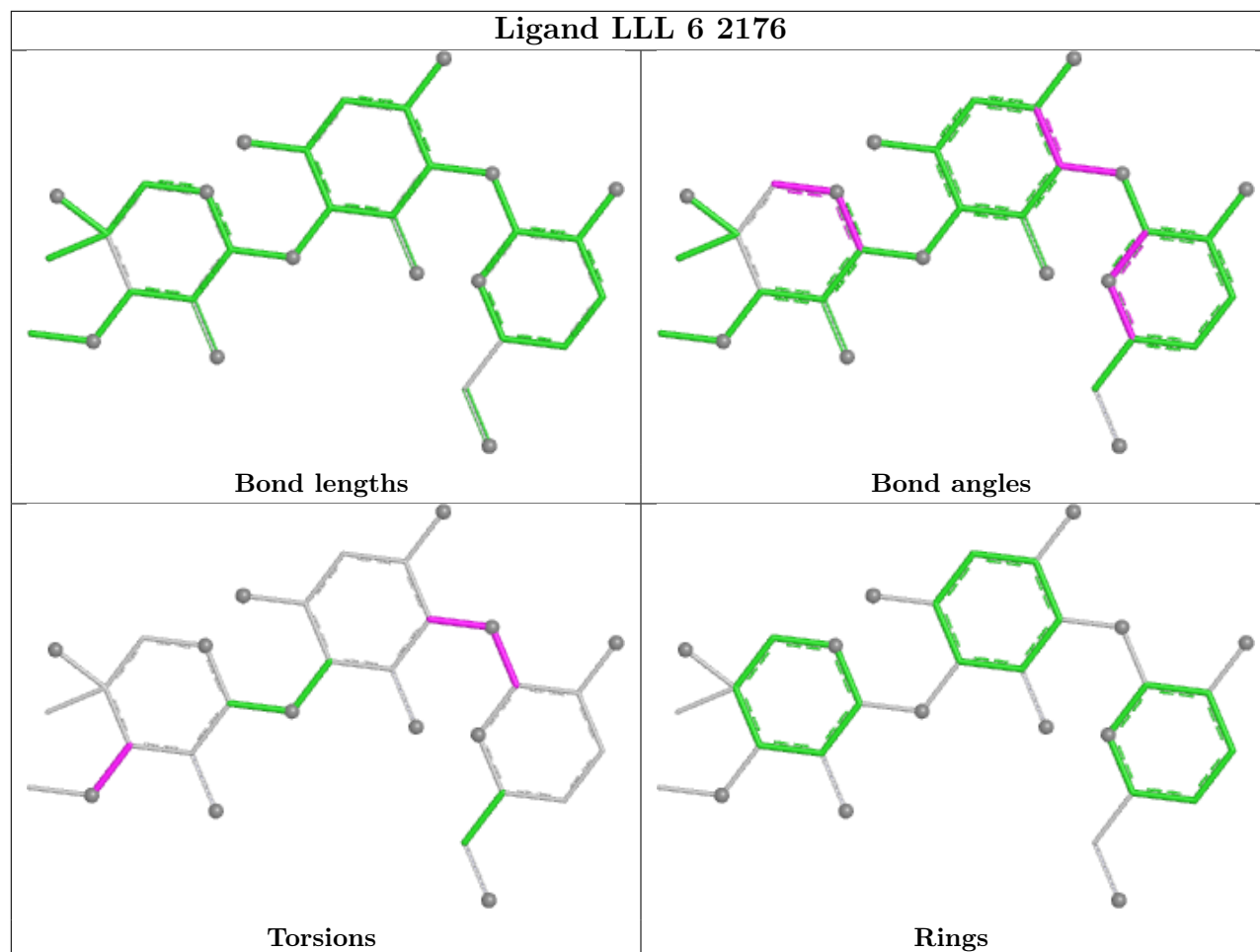




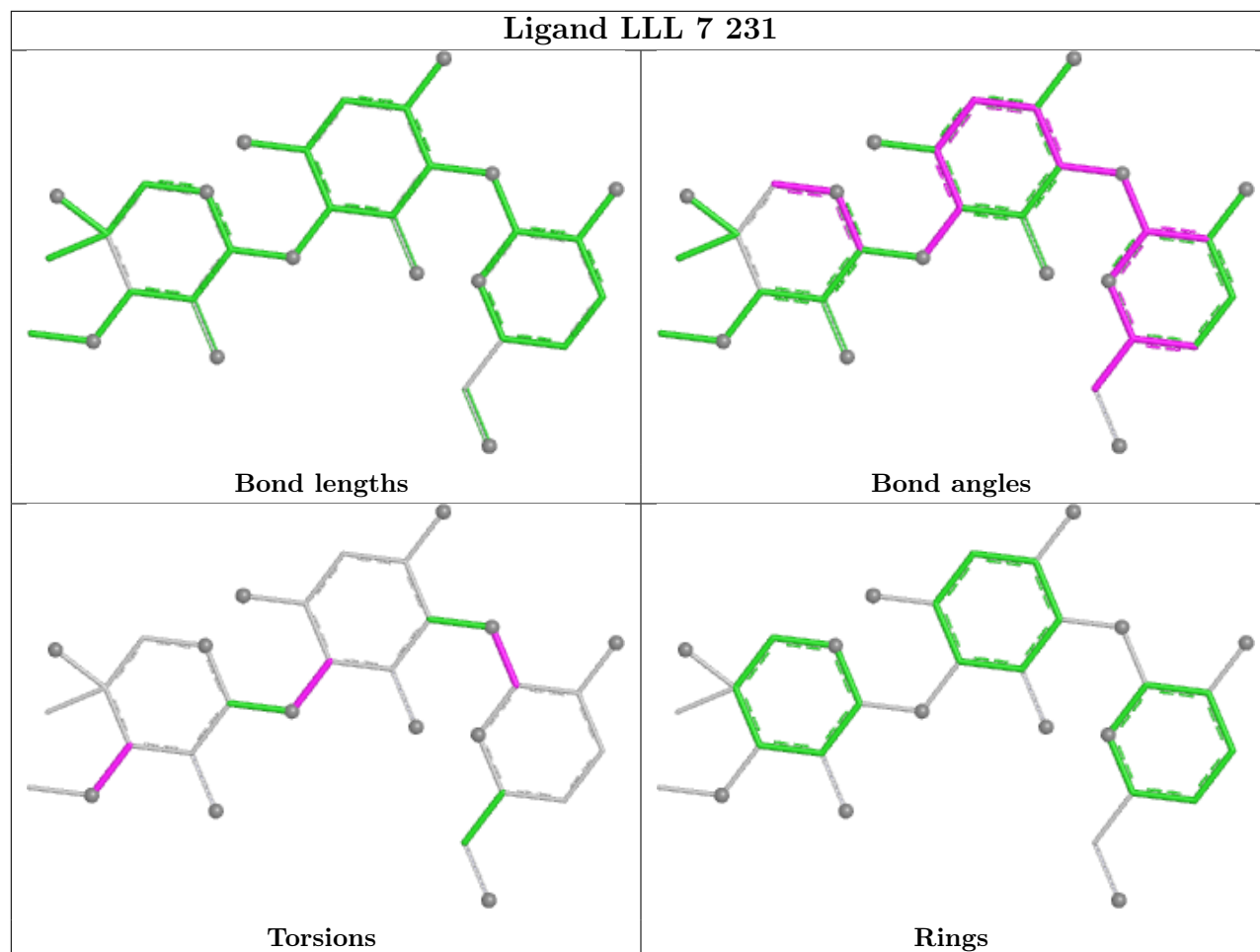
Ligand LLL 6 2164



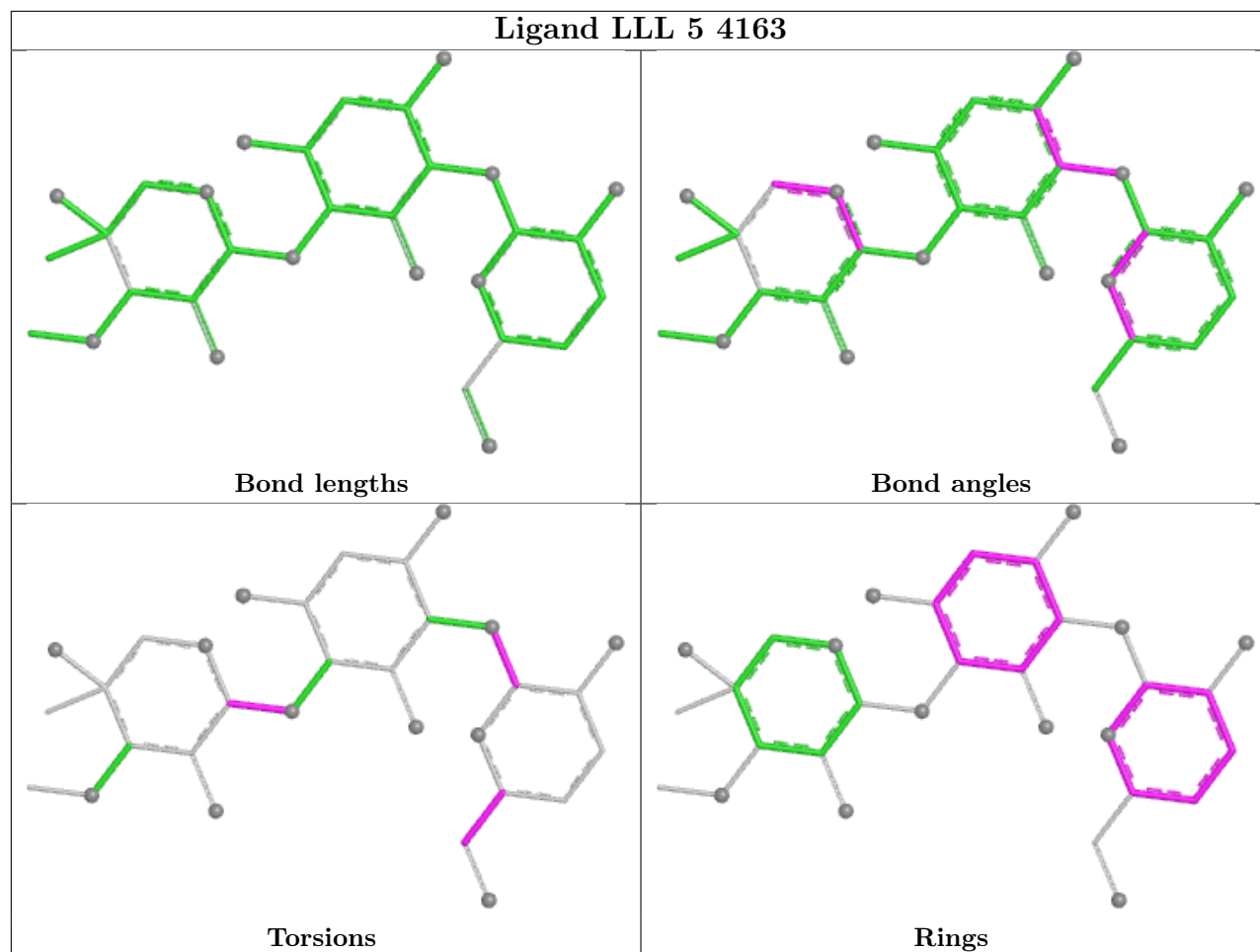
Ligand LLL 6 2176



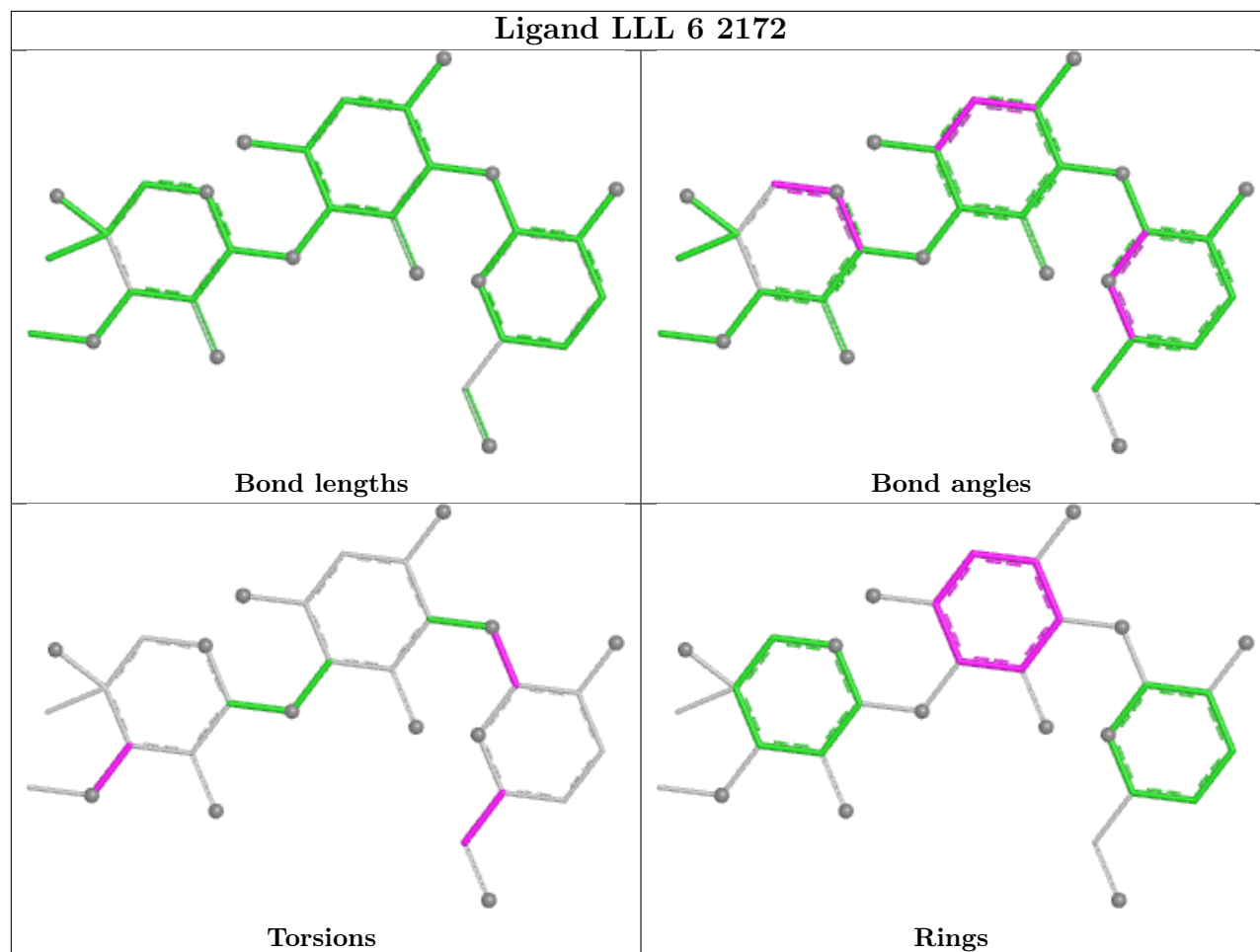
Ligand LLL 7 231



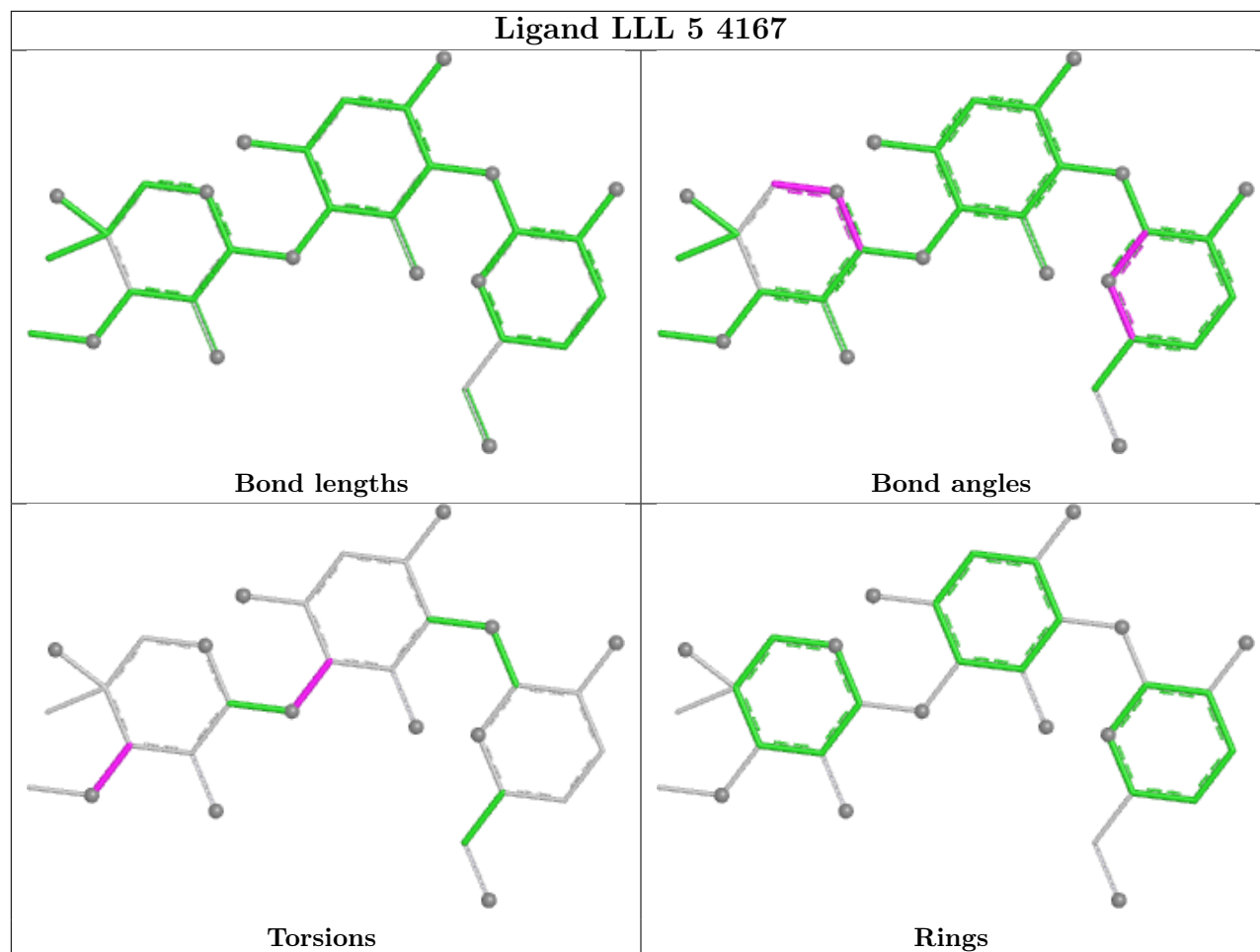
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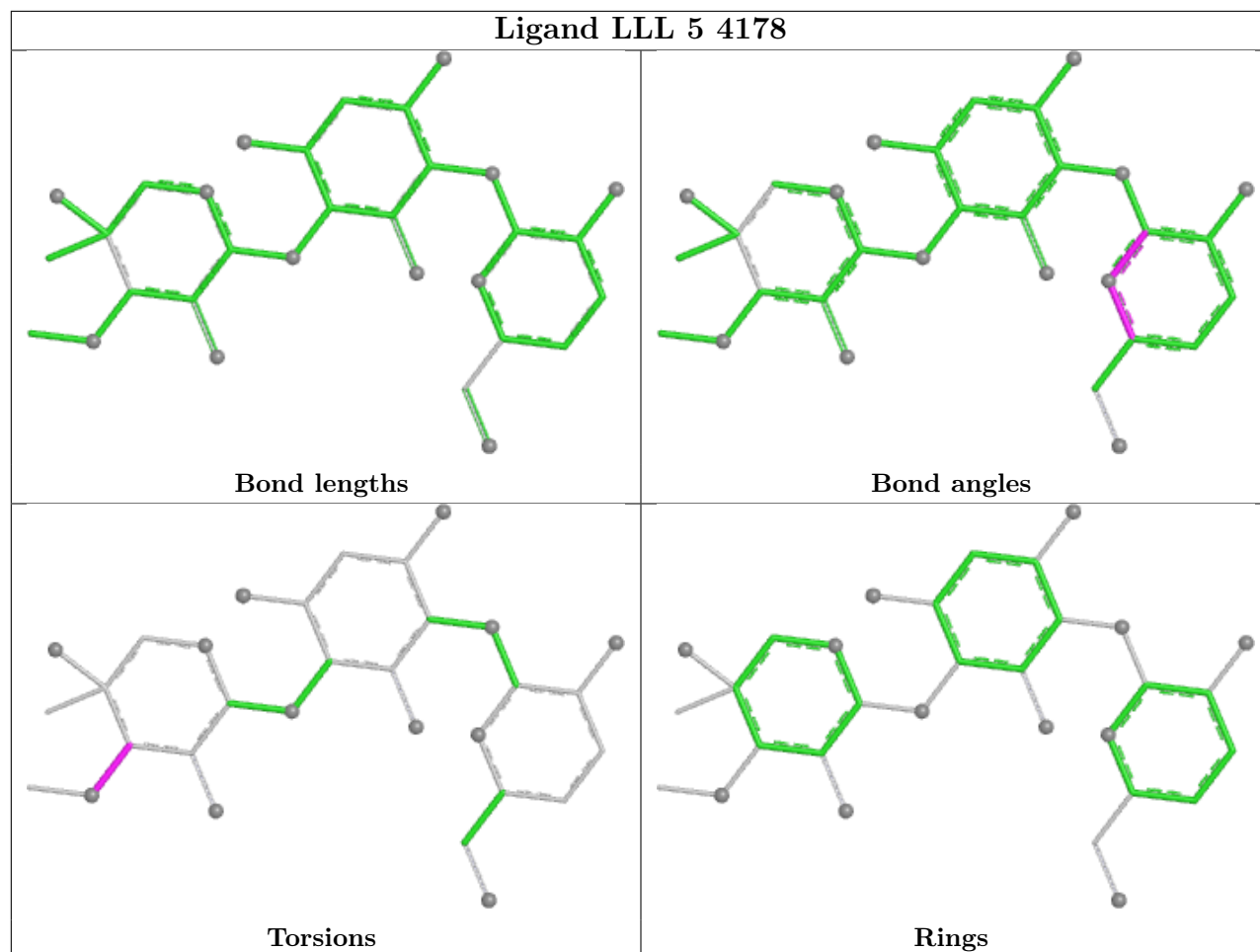
Ligand LLL 6 2172



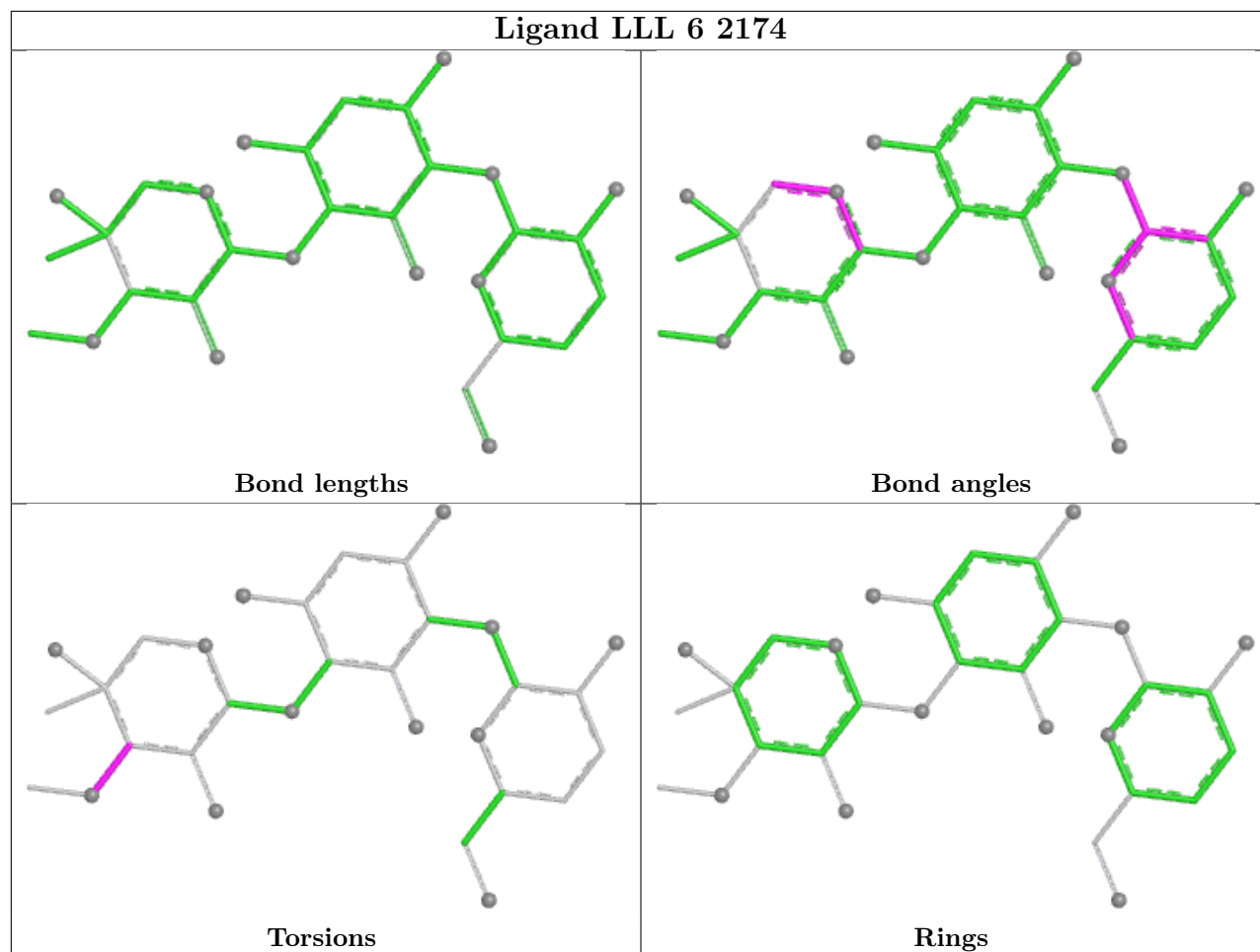
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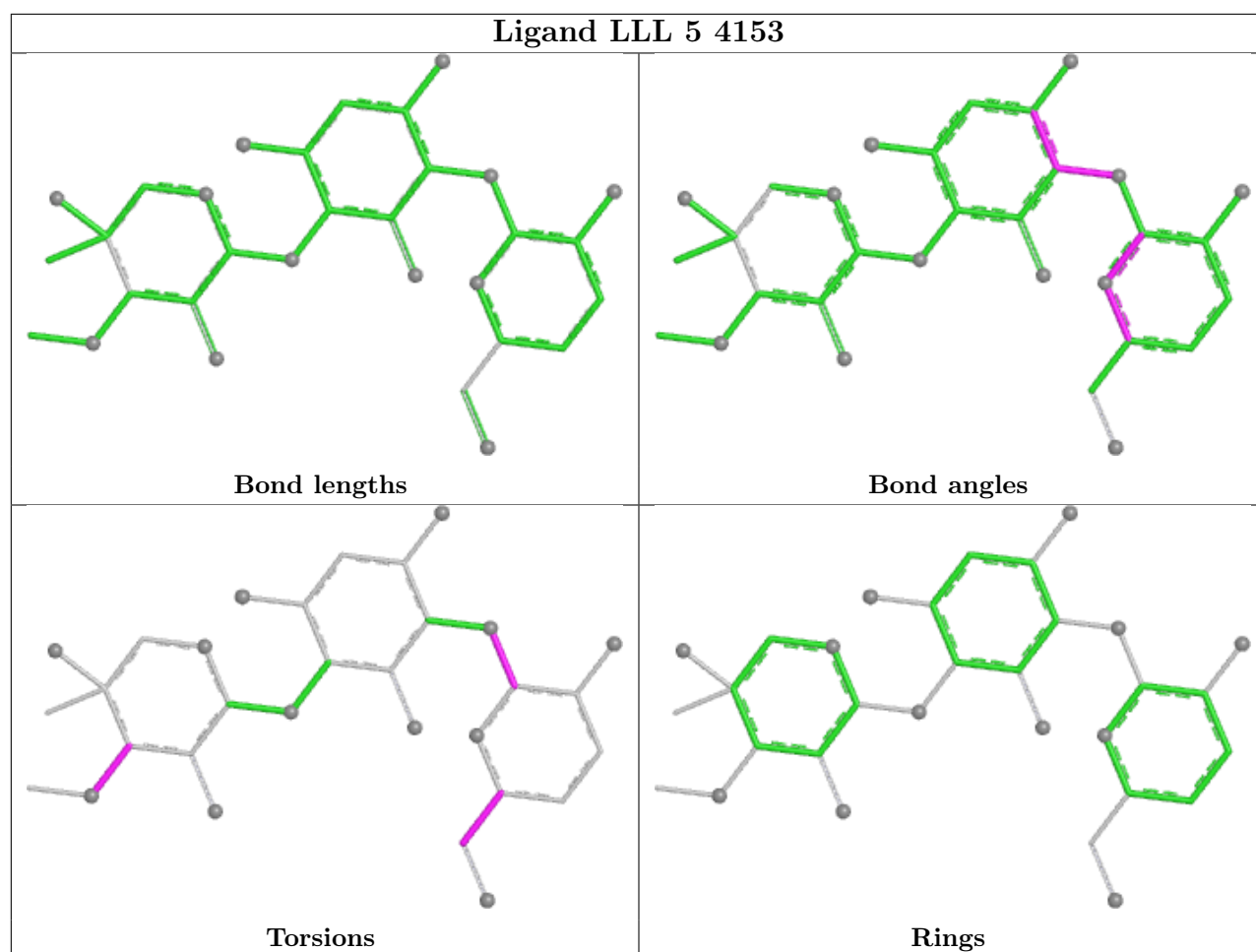


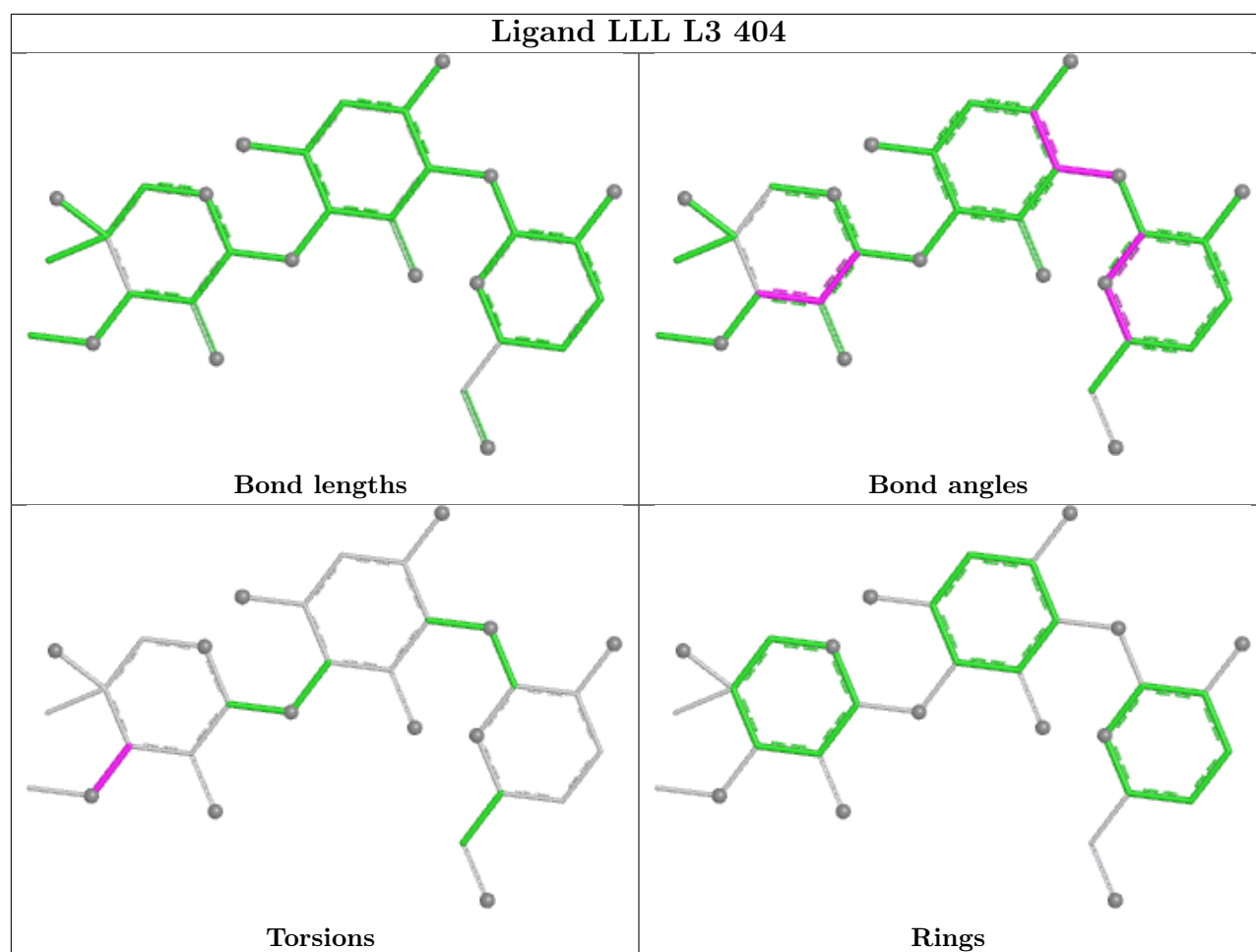
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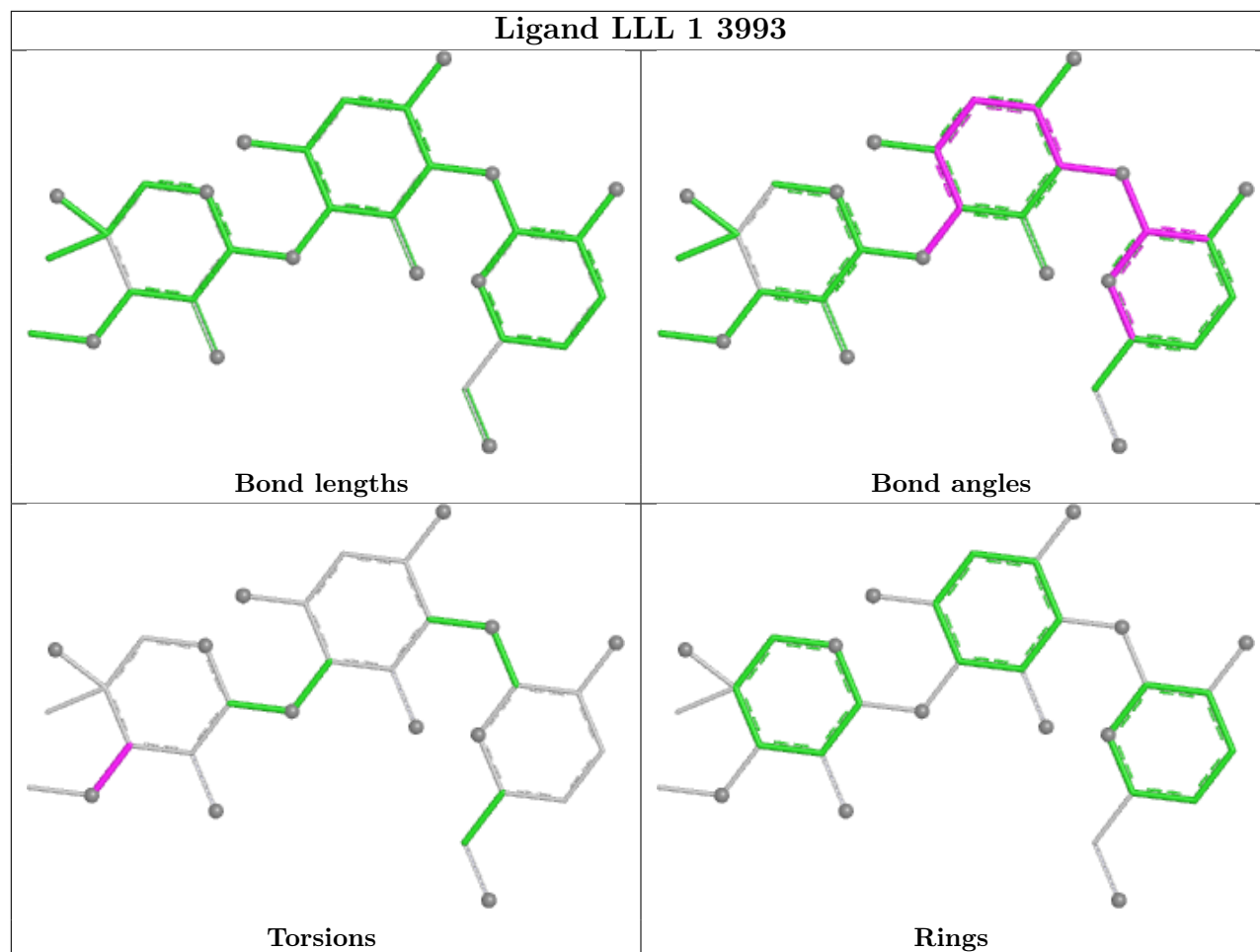
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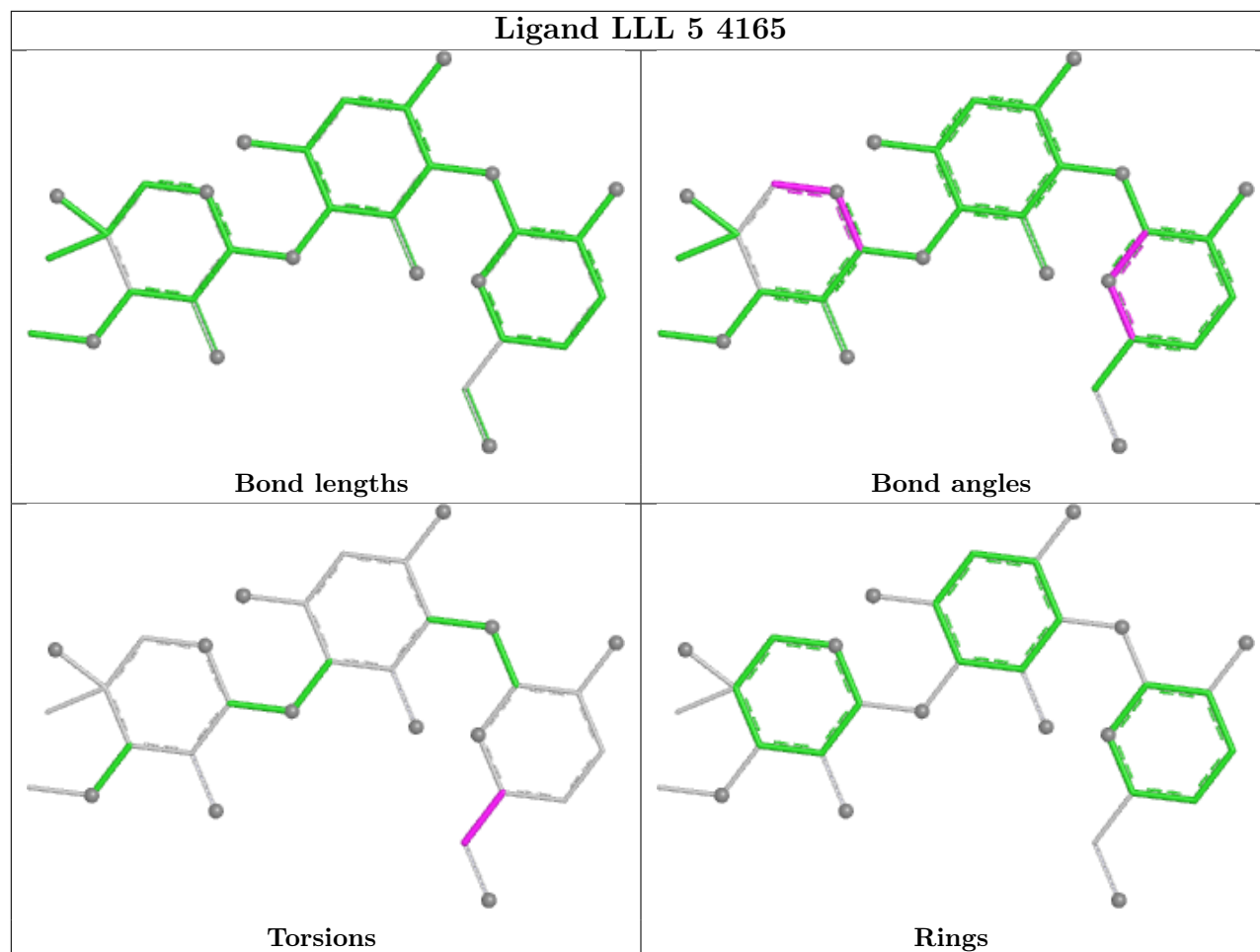




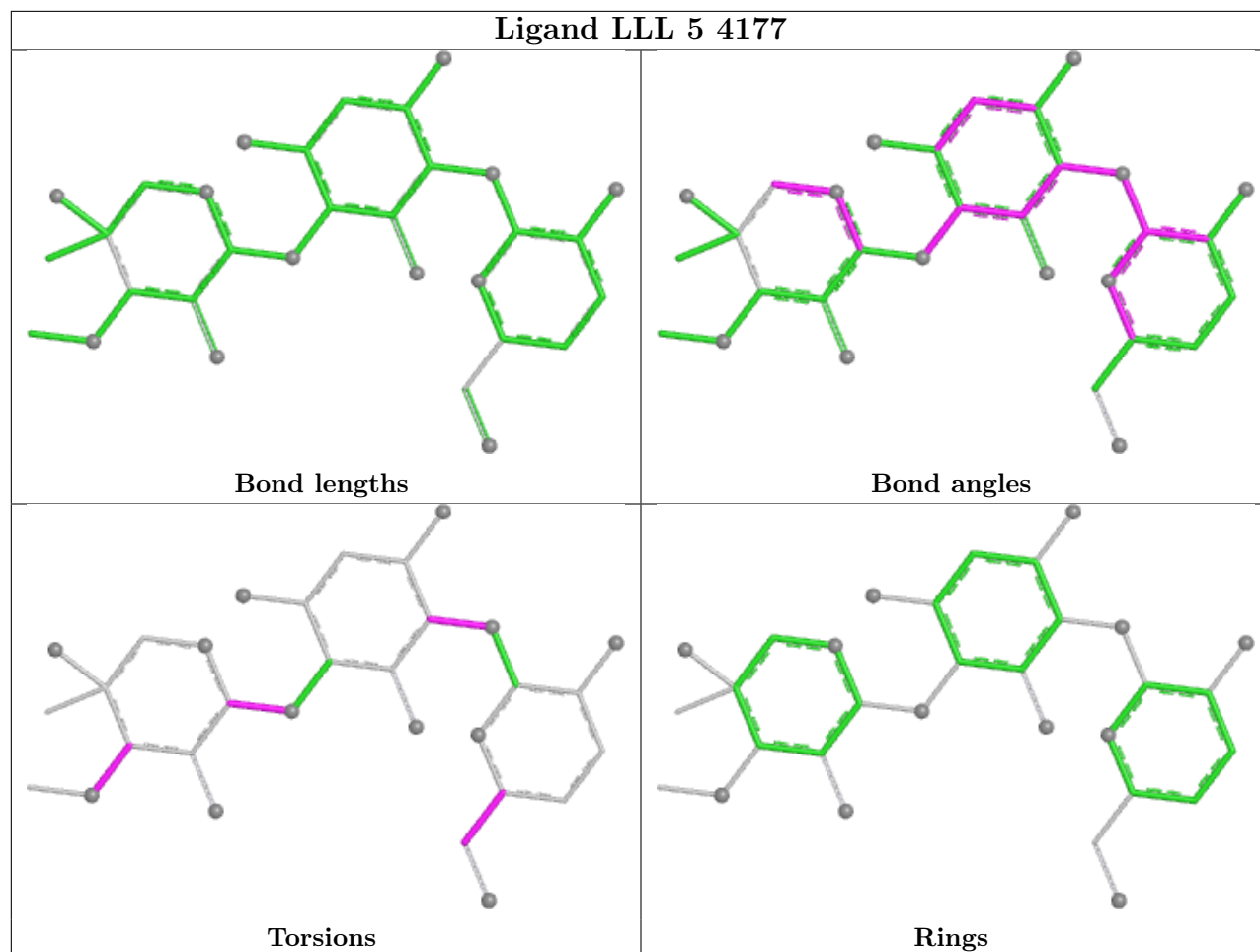
Ligand LLL 1 3993



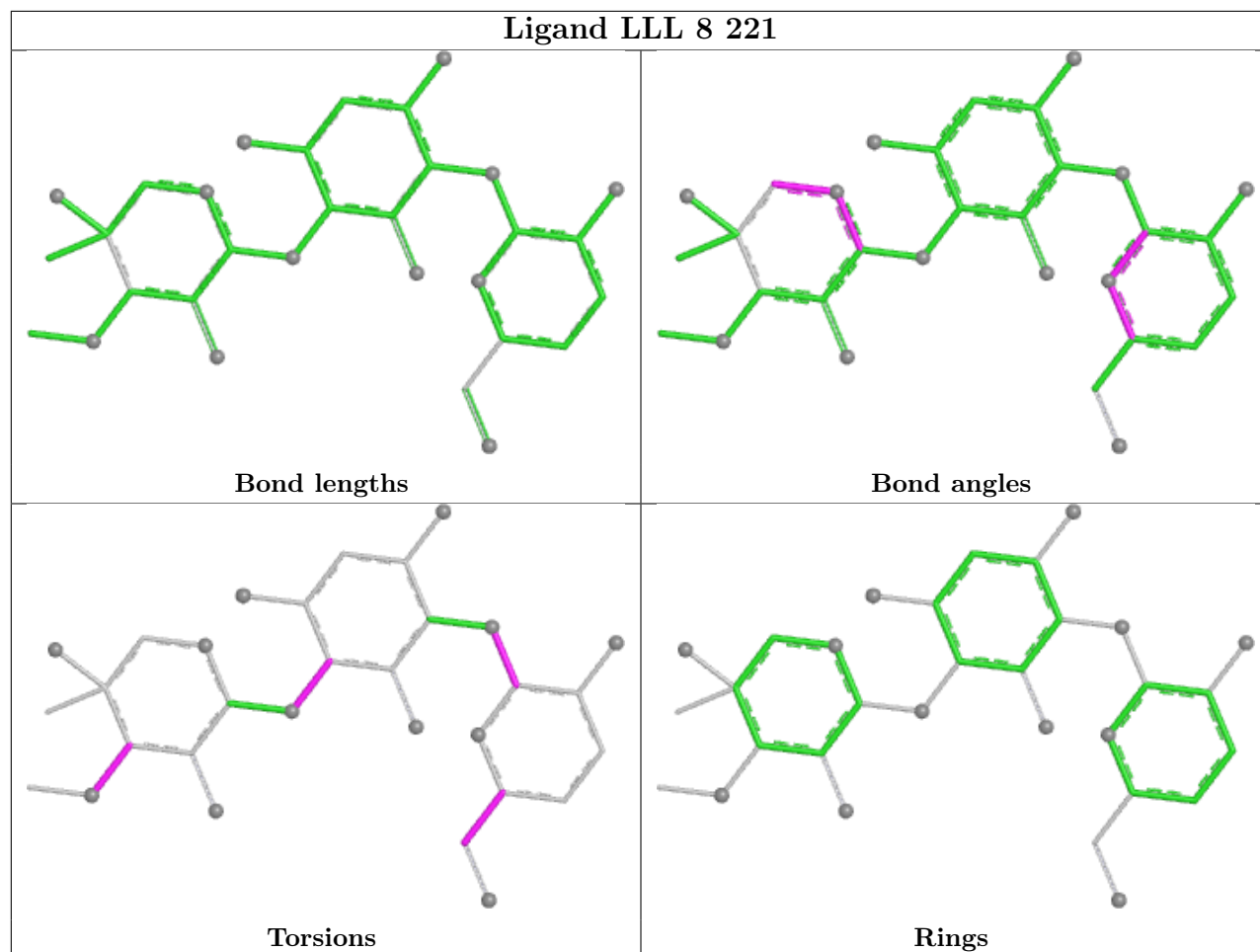
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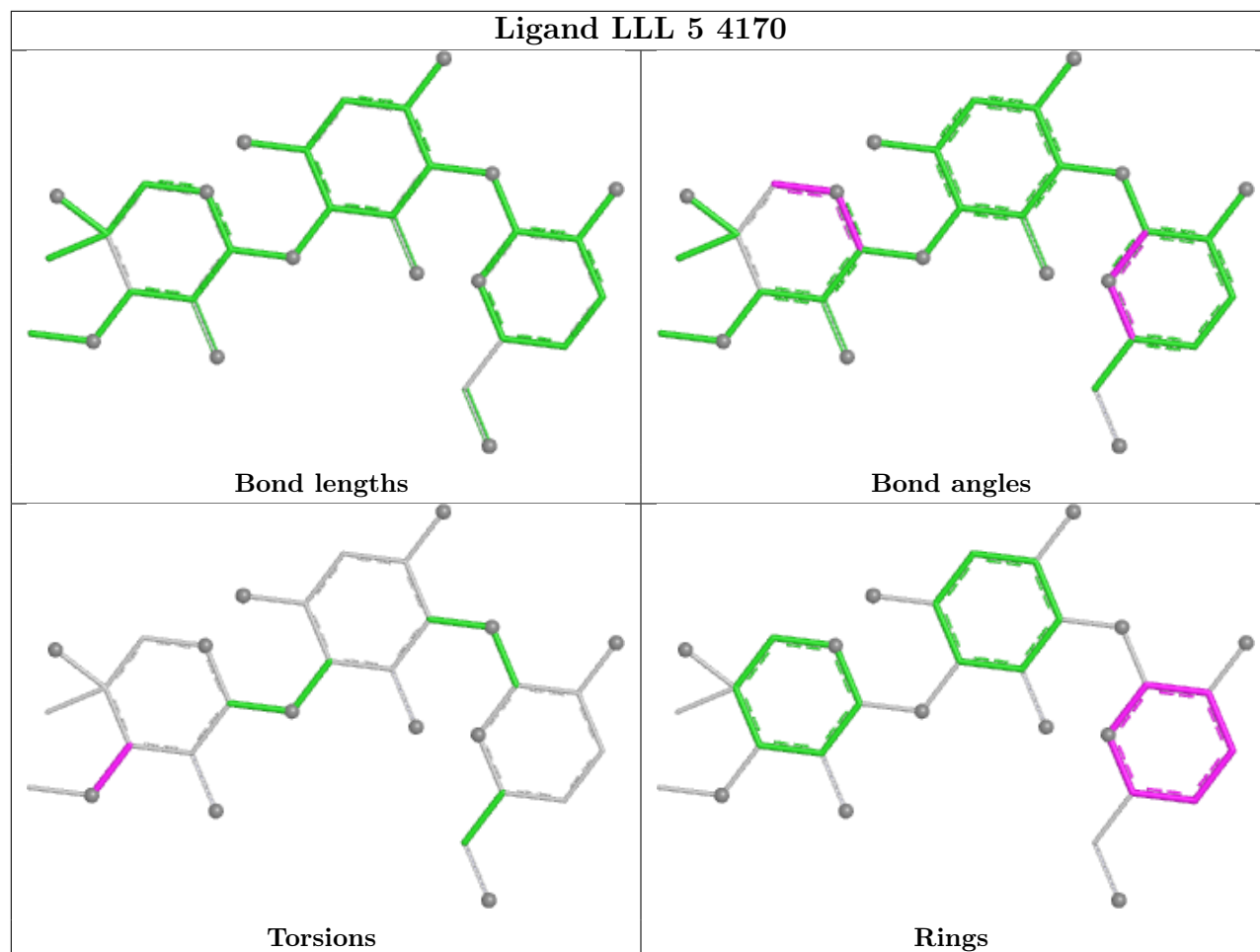
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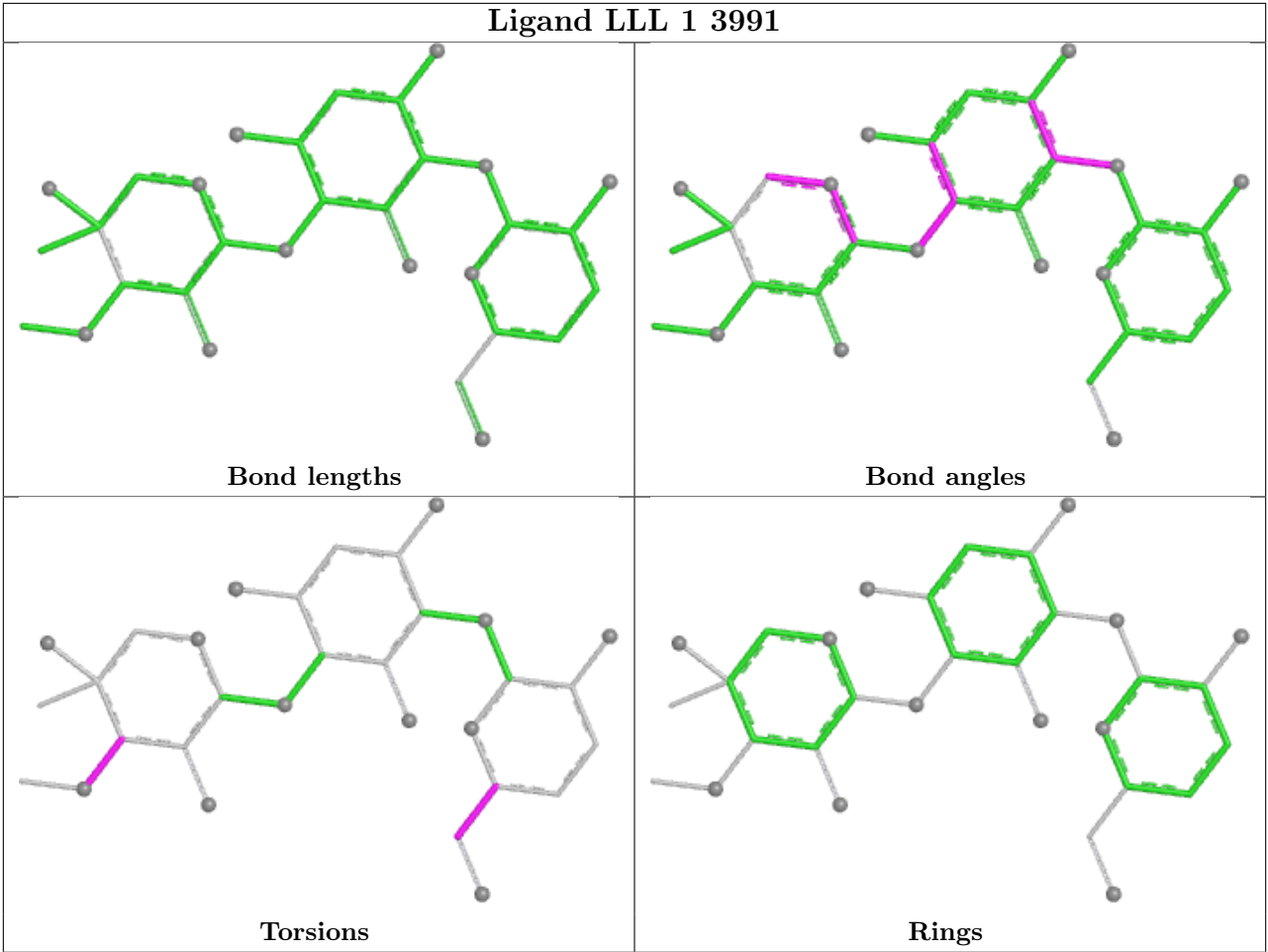


Ligand LLL 8 221



Ligand LLL 5 4170





5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
80	m2	2
51	S5	1
10	l8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	m2	23:UNK	C	28:UNK	N	6.26
1	m2	52:UNK	C	54:UNK	N	3.26

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	S5	21:THR	C	22:PRO	N	1.72
1	l8	51:LYS	C	52:TRP	N	1.16

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	1	3100/3396 (91%)	-0.53	4 (0%) 92 91	47, 83, 190, 354	0
1	5	3134/3396 (92%)	-0.54	8 (0%) 90 84	37, 76, 173, 292	0
2	3	121/121 (100%)	-0.50	0 100 100	58, 107, 135, 155	0
2	7	121/121 (100%)	-0.63	0 100 100	45, 72, 94, 160	0
3	4	156/158 (98%)	-0.63	0 100 100	54, 94, 152, 260	0
3	8	158/158 (100%)	-0.29	0 100 100	61, 102, 164, 234	0
4	L2	252/252 (100%)	0.16	3 (1%) 76 63	51, 88, 124, 174	0
4	l2	252/252 (100%)	0.14	4 (1%) 70 56	51, 84, 121, 177	0
5	L3	386/386 (100%)	-0.18	0 100 100	41, 77, 104, 170	0
5	l3	386/386 (100%)	-0.24	0 100 100	34, 60, 91, 165	0
6	L4	361/361 (100%)	-0.06	2 (0%) 85 75	45, 85, 119, 142	0
6	l4	361/361 (100%)	0.17	8 (2%) 62 47	44, 90, 128, 167	0
7	L5	296/296 (100%)	0.13	5 (1%) 69 54	74, 120, 162, 214	0
7	l5	294/296 (99%)	0.04	1 (0%) 90 84	51, 80, 124, 155	0
8	L6	156/176 (88%)	-0.28	1 (0%) 85 75	61, 84, 119, 149	0
8	l6	157/176 (89%)	-0.11	1 (0%) 85 75	53, 81, 129, 204	0
9	L7	222/223 (99%)	-0.10	0 100 100	47, 76, 119, 219	0
9	l7	223/223 (100%)	-0.16	1 (0%) 88 81	39, 66, 123, 205	0
10	L8	233/233 (100%)	0.42	7 (3%) 52 39	96, 131, 183, 250	0
10	l8	231/233 (99%)	0.47	8 (3%) 47 34	96, 137, 184, 229	0
11	L9	191/191 (100%)	0.08	2 (1%) 79 66	60, 91, 121, 162	0
11	l9	191/191 (100%)	-0.34	1 (0%) 87 78	41, 60, 92, 148	0
12	M0	212/221 (95%)	-0.05	3 (1%) 73 59	52, 84, 129, 242	0
12	m0	211/221 (95%)	-0.21	3 (1%) 73 59	32, 65, 120, 192	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	M1	169/169 (100%)	0.25	3 (1%) 67 53	88, 124, 153, 166	0
13	m1	169/169 (100%)	-0.09	1 (0%) 85 75	51, 77, 104, 125	0
14	M3	193/194 (99%)	0.03	1 (0%) 87 78	55, 102, 161, 213	0
14	m3	194/194 (100%)	0.37	3 (1%) 72 57	53, 113, 167, 220	0
15	M4	136/137 (99%)	0.01	4 (2%) 53 39	61, 88, 115, 151	0
15	m4	137/137 (100%)	-0.28	0 100 100	45, 67, 96, 170	0
16	M5	203/203 (100%)	0.26	1 (0%) 87 78	52, 88, 116, 130	0
16	m5	203/203 (100%)	0.42	0 100 100	58, 97, 120, 136	0
17	M6	197/197 (100%)	-0.10	4 (2%) 65 49	45, 64, 104, 140	0
17	m6	197/197 (100%)	-0.26	1 (0%) 87 78	34, 50, 93, 123	0
18	M7	183/184 (99%)	0.02	4 (2%) 62 47	50, 70, 209, 262	0
18	m7	155/184 (84%)	-0.18	1 (0%) 85 75	49, 67, 96, 136	0
19	M8	185/185 (100%)	0.05	2 (1%) 78 65	62, 83, 102, 160	0
19	m8	185/185 (100%)	0.14	2 (1%) 78 65	47, 83, 108, 135	0
20	M9	182/188 (96%)	0.09	0 100 100	77, 106, 198, 250	0
20	m9	188/188 (100%)	0.23	3 (1%) 70 56	63, 95, 190, 264	0
21	N0	172/172 (100%)	-0.07	3 (1%) 69 54	59, 80, 108, 150	0
21	n0	172/172 (100%)	-0.34	2 (1%) 76 63	40, 57, 88, 123	0
22	N1	159/159 (100%)	0.12	0 100 100	56, 84, 149, 195	0
22	n1	159/159 (100%)	-0.15	1 (0%) 85 75	43, 68, 130, 165	0
23	N2	100/100 (100%)	0.18	2 (2%) 65 49	115, 150, 198, 212	0
23	n2	98/100 (98%)	0.34	4 (4%) 41 29	92, 136, 165, 200	0
24	N3	136/136 (100%)	-0.06	2 (1%) 72 57	47, 75, 111, 159	0
24	n3	136/136 (100%)	-0.26	1 (0%) 84 73	34, 55, 87, 130	0
25	N4	98/155 (63%)	0.48	4 (4%) 41 29	67, 97, 245, 294	0
26	N5	121/121 (100%)	0.14	1 (0%) 82 71	76, 107, 137, 228	0
26	n5	120/121 (99%)	0.60	4 (3%) 49 36	73, 116, 150, 171	0
27	N6	126/126 (100%)	-0.01	0 100 100	60, 96, 132, 163	0
27	n6	126/126 (100%)	0.36	3 (2%) 59 45	75, 110, 146, 183	0
28	N7	135/135 (100%)	0.30	1 (0%) 84 73	114, 145, 176, 223	0
28	n7	135/135 (100%)	0.13	1 (0%) 84 73	106, 144, 172, 207	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
29	N8	148/148 (100%)	0.11	1 (0%) 84 73	46, 84, 125, 154	0
29	n8	148/148 (100%)	0.21	2 (1%) 73 59	46, 85, 128, 156	0
30	N9	58/58 (100%)	0.35	2 (3%) 48 35	50, 90, 159, 165	0
30	n9	58/58 (100%)	0.28	0 100 100	43, 87, 136, 176	0
31	O0	97/100 (97%)	0.06	0 100 100	96, 132, 178, 188	0
31	o0	100/100 (100%)	0.13	0 100 100	93, 124, 178, 229	0
32	O1	109/109 (100%)	0.26	1 (0%) 81 68	65, 92, 156, 210	0
32	o1	109/109 (100%)	0.03	1 (0%) 81 68	57, 80, 146, 186	0
33	O2	127/127 (100%)	-0.05	1 (0%) 82 71	42, 67, 95, 128	0
33	o2	127/127 (100%)	0.17	3 (2%) 59 45	42, 76, 105, 157	0
34	O3	106/106 (100%)	-0.11	0 100 100	51, 68, 106, 147	0
34	o3	106/106 (100%)	-0.07	0 100 100	41, 60, 94, 133	0
35	O4	112/112 (100%)	0.65	12 (10%) 11 11	73, 114, 163, 223	0
35	o4	112/112 (100%)	0.33	3 (2%) 56 42	69, 104, 163, 198	0
36	O5	119/119 (100%)	0.12	2 (1%) 69 54	81, 111, 140, 163	0
36	o5	119/119 (100%)	0.59	8 (6%) 24 19	78, 123, 152, 162	0
37	O6	99/99 (100%)	0.23	0 100 100	85, 111, 160, 197	0
37	o6	99/99 (100%)	0.41	1 (1%) 79 66	89, 117, 162, 193	0
38	O7	87/87 (100%)	-0.06	1 (1%) 78 65	56, 76, 125, 211	0
38	o7	87/87 (100%)	0.28	0 100 100	54, 82, 153, 163	0
39	O8	77/77 (100%)	0.70	4 (5%) 33 24	114, 147, 172, 230	0
39	o8	77/77 (100%)	0.33	0 100 100	106, 136, 170, 181	0
40	O9	50/50 (100%)	0.50	5 (10%) 12 12	63, 84, 106, 116	0
40	o9	50/50 (100%)	0.37	3 (6%) 27 21	70, 91, 106, 108	0
41	Q0	52/52 (100%)	-0.18	0 100 100	61, 79, 108, 126	0
41	q0	52/52 (100%)	-0.22	1 (1%) 66 51	37, 51, 72, 118	0
42	Q1	25/25 (100%)	0.61	1 (4%) 42 30	71, 84, 102, 104	0
42	q1	25/25 (100%)	0.66	0 100 100	55, 70, 90, 100	0
43	Q2	105/105 (100%)	-0.08	0 100 100	59, 84, 123, 165	0
43	q2	105/105 (100%)	-0.18	0 100 100	45, 74, 105, 179	0
44	Q3	91/91 (100%)	0.09	1 (1%) 78 65	54, 96, 128, 162	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	q3	91/91 (100%)	-0.00	1 (1%) 78 65	44, 85, 112, 130	0
45	2	1712/1800 (95%)	-0.17	4 (0%) 91 87	70, 132, 242, 320	0
45	6	1739/1800 (96%)	-0.34	8 (0%) 87 78	49, 95, 249, 344	0
46	S0	206/206 (100%)	0.58	12 (5%) 29 22	109, 161, 224, 271	0
46	s0	206/206 (100%)	0.24	3 (1%) 72 57	81, 124, 166, 215	0
47	S1	214/216 (99%)	0.43	9 (4%) 40 29	114, 173, 227, 252	0
47	s1	216/216 (100%)	0.11	1 (0%) 87 78	81, 117, 159, 193	0
48	S2	217/217 (100%)	0.44	4 (1%) 67 53	84, 130, 171, 200	0
48	s2	217/217 (100%)	-0.06	1 (0%) 87 78	71, 104, 138, 174	0
49	S3	223/223 (100%)	0.47	6 (2%) 56 42	82, 139, 193, 260	0
49	s3	223/223 (100%)	0.06	2 (0%) 81 68	78, 116, 163, 223	0
50	S4	260/260 (100%)	0.37	8 (3%) 51 38	97, 142, 169, 225	0
50	s4	260/260 (100%)	0.35	3 (1%) 76 63	72, 127, 165, 189	0
51	S5	206/206 (100%)	0.20	3 (1%) 72 57	131, 172, 213, 237	0
51	s5	206/206 (100%)	0.13	4 (1%) 66 51	64, 97, 147, 197	0
52	S6	226/236 (95%)	0.62	17 (7%) 20 17	82, 145, 214, 373	0
52	s6	218/236 (92%)	0.13	3 (1%) 73 59	73, 120, 168, 213	0
53	S7	184/186 (98%)	0.57	9 (4%) 35 26	115, 179, 224, 251	0
53	s7	186/186 (100%)	0.63	9 (4%) 35 26	99, 157, 207, 271	0
54	S8	188/200 (94%)	0.39	6 (3%) 50 37	84, 125, 176, 199	0
54	s8	186/200 (93%)	0.59	12 (6%) 25 20	70, 113, 164, 198	0
55	S9	185/185 (100%)	0.44	4 (2%) 62 47	111, 152, 192, 244	0
55	s9	185/185 (100%)	0.57	5 (2%) 56 42	87, 134, 188, 215	0
56	C0	96/105 (91%)	0.68	4 (4%) 40 29	127, 170, 212, 235	0
56	c0	96/105 (91%)	0.36	3 (3%) 51 38	93, 137, 193, 217	0
57	C1	155/156 (99%)	0.33	2 (1%) 75 61	84, 122, 201, 267	0
57	c1	142/156 (91%)	0.68	9 (6%) 26 20	69, 111, 169, 198	0
58	C2	124/143 (86%)	0.42	2 (1%) 70 56	175, 223, 267, 294	0
58	c2	124/143 (86%)	0.48	5 (4%) 42 30	132, 190, 233, 259	0
59	C3	150/150 (100%)	0.12	2 (1%) 75 61	95, 139, 177, 206	0
59	c3	150/150 (100%)	0.45	6 (4%) 42 30	67, 111, 148, 173	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	C4	127/128 (99%)	0.66	9 (7%) 22 18	93, 164, 207, 215	0
60	c4	128/128 (100%)	0.07	1 (0%) 82 71	63, 103, 135, 156	0
61	C5	124/141 (87%)	0.77	11 (8%) 15 14	108, 165, 211, 236	0
61	c5	135/141 (95%)	0.26	2 (1%) 72 57	61, 96, 162, 201	0
62	C6	141/142 (99%)	0.36	6 (4%) 40 29	105, 157, 196, 212	0
62	c6	142/142 (100%)	0.07	3 (2%) 63 48	59, 91, 128, 197	0
63	C7	120/136 (88%)	0.52	5 (4%) 40 29	110, 161, 290, 384	0
63	c7	117/136 (86%)	0.15	0 100 100	81, 123, 194, 239	0
64	C8	145/145 (100%)	0.13	2 (1%) 73 59	102, 165, 211, 235	0
64	c8	145/145 (100%)	-0.08	0 100 100	64, 82, 128, 184	0
65	C9	143/143 (100%)	0.17	1 (0%) 84 73	128, 159, 204, 232	0
65	c9	143/143 (100%)	-0.16	0 100 100	61, 84, 117, 154	0
66	D0	107/110 (97%)	0.97	15 (14%) 6 8	101, 156, 232, 270	0
66	d0	110/110 (100%)	0.24	2 (1%) 67 53	68, 121, 203, 223	0
67	D1	87/87 (100%)	0.57	5 (5%) 29 22	112, 151, 183, 198	0
67	d1	87/87 (100%)	0.20	0 100 100	87, 117, 158, 188	0
68	D2	129/129 (100%)	0.57	7 (5%) 31 24	99, 127, 155, 176	0
68	d2	129/129 (100%)	0.22	1 (0%) 82 71	74, 99, 120, 137	0
69	D3	144/144 (100%)	0.42	5 (3%) 47 34	76, 102, 127, 174	0
69	d3	144/144 (100%)	-0.01	0 100 100	51, 73, 99, 157	0
70	D4	134/134 (100%)	0.33	5 (3%) 45 32	106, 152, 191, 215	0
70	d4	133/134 (99%)	0.32	3 (2%) 61 46	80, 134, 173, 195	0
71	D5	70/70 (100%)	0.22	3 (4%) 40 29	151, 189, 233, 266	0
71	d5	69/70 (98%)	0.05	0 100 100	77, 108, 142, 162	0
72	D6	97/97 (100%)	0.84	13 (13%) 7 8	86, 126, 189, 239	0
72	d6	97/97 (100%)	0.31	0 100 100	63, 88, 136, 238	0
73	D7	81/81 (100%)	0.33	2 (2%) 58 43	117, 161, 215, 267	0
73	d7	81/81 (100%)	0.38	1 (1%) 76 63	92, 124, 199, 227	0
74	D8	63/63 (100%)	0.14	1 (1%) 70 56	136, 175, 215, 257	0
74	d8	63/63 (100%)	0.31	0 100 100	81, 117, 146, 165	0
75	D9	53/53 (100%)	1.01	6 (11%) 10 10	104, 128, 154, 187	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	d9	53/53 (100%)	0.24	2 (3%) 44 31	64, 86, 109, 148	0
76	E0	60/62 (96%)	0.26	1 (1%) 69 54	98, 144, 215, 237	0
76	e0	62/62 (100%)	0.12	0 100 100	64, 118, 179, 202	0
77	E1	71/72 (98%)	0.87	8 (11%) 10 10	143, 199, 243, 257	0
77	e1	72/72 (100%)	0.66	6 (8%) 17 15	125, 174, 212, 236	0
78	SR	318/318 (100%)	0.25	9 (2%) 55 41	131, 175, 225, 269	0
78	sR	318/318 (100%)	-0.10	2 (0%) 85 75	88, 125, 174, 226	0
79	SM	159/272 (58%)	0.38	7 (4%) 39 28	88, 153, 237, 268	0
79	sM	129/272 (47%)	0.35	4 (3%) 51 38	76, 118, 187, 220	0
80	m2	0/165	-	-	-	-
81	n4	135/135 (100%)	0.22	0 100 100	42, 139, 211, 238	0
82	p0	143/312 (45%)	0.42	4 (2%) 55 41	84, 138, 215, 261	0
83	p1	0/47	-	-	-	-
All	All	32909/34616 (95%)	-0.01	493 (1%) 72 57	32, 103, 196, 384	0

All (493) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	l2	252	THR	7.6
66	D0	64	LYS	5.5
24	N3	2	SER	5.1
12	m0	103	LEU	5.0
59	c3	16	ILE	5.0
71	D5	71	ILE	4.8
4	l2	251	LYS	4.5
52	s6	79	LYS	4.5
39	O8	72	THR	4.4
25	N4	82	ILE	4.4
25	N4	83	THR	4.4
46	S0	50	VAL	4.3
82	p0	54	GLY	4.3
66	D0	81	THR	4.3
54	s8	102	VAL	4.3
35	O4	2	ALA	4.2
61	C5	52	LYS	4.2
69	D3	3	LYS	4.0
60	C4	137	LEU	4.0
15	M4	10	SER	4.0

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Mol	Chain	Res	Type	RSRZ
53	S7	176	LEU	4.0
60	C4	121	VAL	3.9
30	N9	2	ALA	3.9
1	5	1201	C	3.9
55	s9	33	GLU	3.9
40	O9	46	ARG	3.8
47	S1	217	LEU	3.8
35	O4	78	GLY	3.8
63	C7	117	LEU	3.8
72	D6	83	ILE	3.7
24	N3	3	GLY	3.7
48	S2	223	GLY	3.7
10	L8	198	ALA	3.7
12	M0	111	LEU	3.7
50	S4	2	ALA	3.6
4	l2	253	GLN	3.6
1	5	1103	A	3.6
23	n2	14	THR	3.6
14	m3	54	LEU	3.5
77	E1	145	HIS	3.5
21	n0	1	MET	3.5
78	SR	94	VAL	3.4
52	S6	65	GLN	3.4
13	M1	127	PHE	3.4
54	s8	50	GLY	3.4
55	s9	80	LEU	3.4
67	D1	34	ILE	3.4
17	M6	3	VAL	3.4
13	m1	8	PRO	3.4
63	C7	35	CYS	3.4
41	q0	77	ILE	3.4
60	C4	102	LEU	3.4
36	o5	79	ASP	3.3
78	sR	136	ILE	3.3
35	O4	77	GLY	3.3
60	C4	120	PRO	3.3
46	s0	18	LEU	3.3
61	C5	101	ALA	3.3
50	S4	56	LEU	3.2
47	S1	216	LYS	3.2
52	s6	80	ASN	3.2
55	S9	3	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
18	M7	182	ILE	3.2
66	D0	82	TYR	3.2
75	D9	43	PHE	3.2
45	6	1370	U	3.2
51	s5	154	ALA	3.2
23	n2	15	PHE	3.2
11	L9	22	SER	3.2
51	s5	37	GLN	3.2
18	M7	183	ALA	3.2
40	O9	2	ALA	3.1
8	l6	67	GLY	3.1
12	M0	114	GLY	3.1
15	M4	9	ALA	3.1
54	S8	144	ALA	3.1
53	S7	93	LEU	3.1
40	O9	49	MET	3.1
61	C5	103	ASN	3.1
46	S0	18	LEU	3.1
61	C5	104	GLN	3.1
79	sM	155	LEU	3.1
52	S6	158	ILE	3.1
68	D2	26	LEU	3.0
32	o1	61	LYS	3.0
39	O8	44	LYS	3.0
59	c3	62	GLN	3.0
52	S6	79	LYS	3.0
77	e1	88	PRO	3.0
62	C6	89	LEU	3.0
35	o4	2	ALA	3.0
57	c1	144	ALA	3.0
71	D5	79	ALA	3.0
29	n8	108	GLY	3.0
70	d4	120	GLY	3.0
58	c2	59	LEU	3.0
72	D6	3	LYS	3.0
77	E1	86	THR	3.0
46	S0	207	PRO	3.0
49	S3	21	LEU	3.0
18	m7	2	ALA	3.0
47	S1	139	ALA	3.0
50	S4	6	LYS	3.0
79	SM	16	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
52	S6	208	TYR	2.9
17	m6	3	VAL	2.9
4	L2	250	GLN	2.9
52	S6	78	THR	2.9
53	s7	127	GLU	2.9
50	S4	4	GLY	2.9
33	o2	128	LEU	2.9
47	S1	54	LEU	2.9
52	S6	75	LEU	2.9
78	SR	115	ILE	2.9
75	D9	28	THR	2.9
61	C5	126	VAL	2.9
75	D9	6	VAL	2.9
1	5	2971	A	2.9
29	n8	109	TYR	2.9
45	6	696	C	2.8
6	l4	242	ALA	2.8
47	S1	66	VAL	2.8
77	e1	102	VAL	2.8
52	S6	83	CYS	2.8
56	C0	27	PHE	2.8
47	S1	140	ILE	2.8
18	M7	162	GLU	2.8
30	N9	26	THR	2.8
61	C5	93	VAL	2.8
26	n5	36	LYS	2.8
6	l4	187	LEU	2.8
78	SR	79	TYR	2.8
6	l4	311	HIS	2.8
36	O5	120	ALA	2.8
49	S3	147	ALA	2.8
52	S6	96	SER	2.8
50	s4	15	PRO	2.8
23	n2	64	THR	2.8
66	D0	117	VAL	2.8
79	SM	18	VAL	2.8
66	D0	80	GLU	2.8
77	E1	117	LEU	2.8
38	O7	88	ALA	2.8
62	c6	115	THR	2.8
20	m9	39	ASN	2.8
78	SR	136	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
62	C6	12	LYS	2.7
10	l8	34	PHE	2.7
72	D6	16	GLY	2.7
52	S6	29	ASP	2.7
79	SM	17	VAL	2.7
10	L8	74	THR	2.7
58	c2	104	GLY	2.7
60	C4	119	THR	2.7
68	D2	16	ASN	2.7
53	s7	43	PHE	2.7
60	C4	83	ILE	2.7
21	N0	1	MET	2.7
70	d4	119	PHE	2.7
36	o5	82	ALA	2.7
54	s8	58	LEU	2.7
59	c3	21	ASN	2.7
4	L2	253	GLN	2.7
68	D2	41	MET	2.7
46	S0	29	VAL	2.7
10	l8	99	PRO	2.6
23	N2	11	ILE	2.6
61	C5	53	PRO	2.6
75	D9	11	PRO	2.6
72	D6	89	ARG	2.6
10	l8	150	LEU	2.6
49	S3	12	VAL	2.6
52	S6	77	LEU	2.6
66	d0	107	THR	2.6
77	E1	144	CYS	2.6
23	N2	89	LEU	2.6
46	S0	14	ALA	2.6
48	S2	127	ALA	2.6
79	SM	19	VAL	2.6
27	n6	50	ILE	2.6
45	2	1143	A	2.6
70	D4	119	PHE	2.6
19	M8	74	GLU	2.6
58	C2	59	LEU	2.6
10	l8	125	ALA	2.6
54	s8	13	ALA	2.6
66	D0	68	ARG	2.6
62	C6	10	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
40	o9	2	ALA	2.6
11	l9	138	THR	2.6
53	s7	150	GLN	2.5
46	s0	29	VAL	2.5
45	6	1755	A	2.5
57	c1	31	THR	2.5
69	D3	24	TRP	2.5
13	M1	104	PHE	2.5
17	M6	110	PRO	2.5
10	L8	158	ASP	2.5
35	O4	32	ALA	2.5
55	S9	4	ALA	2.5
70	D4	58	PHE	2.5
78	SR	57	PRO	2.5
54	s8	8	ARG	2.5
58	c2	41	LEU	2.5
19	m8	154	GLY	2.5
59	C3	9	LYS	2.5
66	d0	64	LYS	2.5
75	D9	26	SER	2.5
58	C2	121	VAL	2.5
26	n5	47	ALA	2.5
52	S6	206	ALA	2.5
10	l8	124	ASP	2.5
54	s8	21	PHE	2.5
57	c1	115	PHE	2.5
66	D0	78	THR	2.5
48	S2	236	PRO	2.5
53	S7	122	HIS	2.5
58	c2	103	LEU	2.5
66	D0	63	LEU	2.5
15	M4	131	VAL	2.5
52	S6	97	VAL	2.5
46	S0	26	ALA	2.5
53	S7	115	SER	2.5
78	SR	80	ALA	2.5
10	l8	161	GLU	2.5
71	D5	50	ILE	2.5
78	SR	121	MET	2.5
35	O4	7	PHE	2.5
77	E1	94	LYS	2.5
50	S4	44	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
58	c2	28	LEU	2.5
46	S0	23	HIS	2.5
55	s9	48	GLN	2.5
72	D6	35	ALA	2.4
77	E1	91	ILE	2.4
6	l4	198	ARG	2.4
42	Q1	11	ARG	2.4
59	c3	106	ARG	2.4
35	O4	6	THR	2.4
21	N0	49	HIS	2.4
69	D3	2	GLY	2.4
40	O9	3	ALA	2.4
57	c1	19	ILE	2.4
20	m9	181	ARG	2.4
36	o5	84	LYS	2.4
60	C4	132	ARG	2.4
10	L8	26	LEU	2.4
75	D9	10	HIS	2.4
79	SM	67	GLY	2.4
18	M7	179	GLN	2.4
6	l4	54	GLU	2.4
57	c1	30	ARG	2.4
57	C1	40	LEU	2.4
26	n5	31	THR	2.4
55	s9	101	VAL	2.4
46	S0	32	HIS	2.4
46	S0	51	GLY	2.4
47	s1	153	HIS	2.4
10	L8	199	ALA	2.4
44	q3	52	ALA	2.4
51	S5	90	ILE	2.4
22	n1	79	MET	2.4
69	D3	112	LYS	2.4
1	1	1028	U	2.4
1	5	1574	C	2.4
52	S6	212	LEU	2.4
53	s7	93	LEU	2.4
25	N4	86	SER	2.4
1	5	1778	G	2.4
29	N8	79	TRP	2.4
39	O8	24	THR	2.4
35	o4	39	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
51	S5	43	PHE	2.4
72	D6	53	LEU	2.4
7	l5	125	VAL	2.4
59	c3	59	GLY	2.3
15	M4	8	LYS	2.3
59	C3	107	LYS	2.3
44	Q3	36	ARG	2.3
56	C0	65	TYR	2.3
70	d4	118	ILE	2.3
45	2	1111	G	2.3
10	l8	112	GLU	2.3
52	S6	129	VAL	2.3
33	o2	124	GLY	2.3
72	D6	13	LYS	2.3
10	L8	256	ALA	2.3
66	D0	86	ILE	2.3
67	D1	23	ILE	2.3
68	d2	108	ALA	2.3
50	S4	149	TYR	2.3
62	C6	79	TYR	2.3
82	p0	18	TYR	2.3
55	S9	158	PHE	2.3
73	d7	24	LEU	2.3
40	o9	11	GLN	2.3
1	1	1226	G	2.3
46	S0	158	VAL	2.3
6	l4	65	TRP	2.3
7	L5	95	TRP	2.3
35	O4	50	ALA	2.3
35	O4	79	SER	2.3
57	c1	21	ASN	2.3
55	s9	104	PHE	2.3
79	sM	157	GLN	2.3
26	n5	56	ARG	2.3
68	D2	29	PRO	2.3
74	D8	17	GLY	2.3
57	c1	114	ALA	2.3
25	N4	72	SER	2.3
36	o5	69	LEU	2.3
46	s0	146	LEU	2.3
53	S7	38	LEU	2.3
78	sR	34	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
36	o5	75	TYR	2.3
54	s8	35	ASN	2.3
12	m0	162	GLN	2.3
54	S8	20	GLN	2.3
56	C0	13	GLN	2.3
1	1	440	A	2.3
32	O1	62	ARG	2.3
16	M5	177	GLY	2.3
20	m9	164	LEU	2.3
73	D7	33	LEU	2.3
66	D0	76	SER	2.3
72	D6	29	SER	2.3
7	L5	34	LYS	2.3
10	L8	123	GLN	2.3
36	o5	71	LYS	2.3
14	m3	104	ARG	2.3
77	E1	98	VAL	2.3
77	e1	147	VAL	2.3
82	p0	50	VAL	2.3
53	S7	49	ILE	2.2
62	C6	36	ILE	2.2
12	m0	114	GLY	2.2
49	S3	112	GLY	2.2
70	D4	134	ALA	2.2
72	D6	6	ALA	2.2
36	O5	92	LEU	2.2
62	c6	54	LEU	2.2
37	o6	2	THR	2.2
54	s8	53	LYS	2.2
70	D4	69	SER	2.2
1	1	1016	C	2.2
35	O4	16	ARG	2.2
66	D0	62	VAL	2.2
52	S6	91	GLU	2.2
24	n3	8	GLY	2.2
40	o9	3	ALA	2.2
50	s4	13	ALA	2.2
61	C5	66	ALA	2.2
62	c6	3	ALA	2.2
14	m3	152	THR	2.2
19	m8	88	THR	2.2
23	n2	13	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
56	c0	81	ASN	2.2
49	S3	158	ILE	2.2
66	D0	83	GLU	2.2
66	D0	103	ILE	2.2
51	s5	152	GLY	2.2
54	S8	2	GLY	2.2
54	S8	145	ALA	2.2
4	l2	247	ARG	2.2
50	S4	78	THR	2.2
4	L2	133	TYR	2.2
60	C4	118	VAL	2.2
60	c4	28	VAL	2.2
63	C7	120	SER	2.2
8	L6	130	ILE	2.2
72	D6	44	ILE	2.2
7	L5	126	GLU	2.2
78	SR	33	LEU	2.2
36	o5	2	ALA	2.2
54	s8	179	CYS	2.2
57	C1	68	GLY	2.2
61	c5	4	ALA	2.2
69	D3	4	GLY	2.2
57	c1	24	LYS	2.2
63	C7	102	VAL	2.2
63	C7	110	VAL	2.2
12	M0	112	GLN	2.2
54	s8	38	ILE	2.2
7	L5	2	ALA	2.2
56	C0	30	ALA	2.2
48	S2	234	PRO	2.2
45	6	538	A	2.2
45	2	1110	G	2.2
61	C5	76	VAL	2.1
70	D4	70	VAL	2.1
77	e1	150	VAL	2.1
79	SM	100	THR	2.1
27	n6	45	ILE	2.1
35	o4	19	LYS	2.1
49	s3	102	ALA	2.1
40	O9	36	ARG	2.1
55	S9	174	ARG	2.1
65	C9	2	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
72	D6	82	ARG	2.1
54	s8	52	ASN	2.1
26	N5	32	PHE	2.1
47	S1	138	PHE	2.1
46	S0	31	VAL	2.1
61	c5	126	VAL	2.1
45	6	1754	A	2.1
53	S7	98	ILE	2.1
35	O4	21	LYS	2.1
45	6	1695	G	2.1
66	D0	119	ALA	2.1
68	D2	117	ARG	2.1
7	L5	170	GLY	2.1
79	sM	41	SER	2.1
1	5	1779	C	2.1
28	N7	118	PHE	2.1
54	S8	21	PHE	2.1
72	D6	86	VAL	2.1
19	M8	93	ILE	2.1
35	O4	36	LYS	2.1
35	O4	51	LEU	2.1
45	2	705	U	2.1
50	S4	52	LEU	2.1
77	e1	96	LYS	2.1
51	S5	154	ALA	2.1
1	5	2404	A	2.1
79	sM	52	PRO	2.1
6	l4	90	PHE	2.1
78	SR	186	PHE	2.1
68	D2	25	VAL	2.1
53	s7	41	LEU	2.1
53	s7	67	LEU	2.1
54	s8	44	HIS	2.1
75	d9	7	TRP	2.1
52	S6	68	LEU	2.1
6	L4	283	THR	2.1
68	D2	105	THR	2.1
49	S3	177	MET	2.1
17	M6	40	GLU	2.1
17	M6	80	PHE	2.1
56	c0	84	GLU	2.1
77	E1	146	SER	2.1

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Mol	Chain	Res	Type	RSRZ
64	C8	66	LEU	2.1
48	s2	159	THR	2.1
53	s7	105	THR	2.1
59	c3	128	TYR	2.1
77	e1	106	TYR	2.1
21	n0	2	ALA	2.1
45	6	708	C	2.1
45	6	337	G	2.1
50	s4	84	ALA	2.1
11	L9	11	GLU	2.1
28	n7	118	PHE	2.1
49	s3	135	GLU	2.1
61	C5	75	PRO	2.1
72	D6	98	PRO	2.1
9	l7	158	LYS	2.0
27	n6	8	VAL	2.0
13	M1	132	ASN	2.0
52	S6	80	ASN	2.0
53	s7	176	LEU	2.0
60	C4	133	ARG	2.0
61	C5	84	ILE	2.0
82	p0	19	LEU	2.0
1	5	2100	A	2.0
6	L4	82	THR	2.0
6	l4	200	THR	2.0
47	S1	25	THR	2.0
47	S1	46	THR	2.0
53	s7	119	THR	2.0
62	C6	20	ALA	2.0
64	C8	146	ALA	2.0
75	d9	8	PHE	2.0
21	N0	130	GLU	2.0
36	o5	83	LYS	2.0
53	S7	111	LYS	2.0
54	S8	53	LYS	2.0
56	c0	22	VAL	2.0
67	D1	51	VAL	2.0
14	M3	51	LEU	2.0
33	O2	128	LEU	2.0
39	O8	78	LEU	2.0
53	S7	149	ILE	2.0
57	c1	112	SER	2.0

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Mol	Chain	Res	Type	RSRZ
33	o2	127	ALA	2.0
52	s6	169	TYR	2.0
46	S0	190	ASP	2.0
51	s5	75	GLY	2.0
67	D1	33	GLN	2.0
76	E0	60	PRO	2.0
10	l8	118	GLU	2.0
66	D0	114	VAL	2.0
67	D1	87	ARG	2.0
79	SM	106	VAL	2.0
73	D7	7	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no 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
84	MG	2	2001	1/1	-0.00	0.30	146,146,146,146	0
84	MG	6	2123	1/1	0.01	0.19	142,142,142,142	0
84	MG	2	1984	1/1	0.46	0.34	113,113,113,113	0
84	MG	5	4133	1/1	0.51	0.18	114,114,114,114	0
84	MG	2	1951	1/1	0.51	0.29	95,95,95,95	0
84	MG	1	3847	1/1	0.52	0.20	53,53,53,53	0
84	MG	2	2002	1/1	0.52	0.20	117,117,117,117	0
84	MG	6	2114	1/1	0.53	0.09	96,96,96,96	0
84	MG	6	2120	1/1	0.53	0.15	110,110,110,110	0
84	MG	1	3950	1/1	0.53	0.09	85,85,85,85	0
84	MG	6	2134	1/1	0.53	0.15	99,99,99,99	0
84	MG	5	4086	1/1	0.55	0.12	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	2	2020	1/1	0.55	0.24	111,111,111,111	0
84	MG	6	2162	1/1	0.55	0.17	96,96,96,96	0
84	MG	5	3775	1/1	0.58	0.16	120,120,120,120	0
84	MG	2	1997	1/1	0.60	0.27	98,98,98,98	0
84	MG	6	2119	1/1	0.60	0.23	91,91,91,91	0
84	MG	S4	301	1/1	0.61	0.16	120,120,120,120	0
84	MG	2	1940	1/1	0.61	0.25	82,82,82,82	0
84	MG	1	3545	1/1	0.61	0.20	62,62,62,62	0
84	MG	2	2013	1/1	0.61	0.15	120,120,120,120	0
84	MG	2	2000	1/1	0.61	0.20	164,164,164,164	0
84	MG	5	3594	1/1	0.63	0.08	77,77,77,77	0
84	MG	5	3634	1/1	0.63	0.14	57,57,57,57	0
84	MG	1	3617	1/1	0.63	0.09	70,70,70,70	0
84	MG	5	3966	1/1	0.63	0.14	95,95,95,95	0
84	MG	O4	503	1/1	0.63	0.12	127,127,127,127	0
84	MG	1	3927	1/1	0.63	0.14	77,77,77,77	1
84	MG	d7	102	1/1	0.63	0.12	78,78,78,78	0
84	MG	m9	202	1/1	0.64	0.17	90,90,90,90	0
84	MG	2	1929	1/1	0.64	0.21	88,88,88,88	0
84	MG	5	3693	1/1	0.64	0.18	81,81,81,81	0
84	MG	2	2033	1/1	0.64	0.18	108,108,108,108	0
84	MG	5	4129	1/1	0.65	0.25	90,90,90,90	0
84	MG	N3	204	1/1	0.65	0.21	87,87,87,87	0
84	MG	6	2118	1/1	0.65	0.17	148,148,148,148	0
84	MG	1	3873	1/1	0.66	0.20	65,65,65,65	0
84	MG	6	2063	1/1	0.66	0.22	117,117,117,117	0
84	MG	6	2101	1/1	0.66	0.31	82,82,82,82	0
84	MG	6	2107	1/1	0.66	0.11	90,90,90,90	0
84	MG	2	1985	1/1	0.66	0.22	122,122,122,122	0
84	MG	2	1977	1/1	0.66	0.11	77,77,77,77	0
84	MG	6	2129	1/1	0.67	0.09	88,88,88,88	0
84	MG	C3	201	1/1	0.67	0.20	102,102,102,102	0
84	MG	6	2090	1/1	0.67	0.11	91,91,91,91	0
84	MG	1	3440	1/1	0.67	0.10	82,82,82,82	0
84	MG	6	2094	1/1	0.68	0.14	69,69,69,69	0
84	MG	6	1912	1/1	0.68	0.13	95,95,95,95	0
84	MG	8	201	1/1	0.68	0.20	81,81,81,81	0
84	MG	2	1963	1/1	0.68	0.22	117,117,117,117	0
84	MG	2	1952	1/1	0.69	0.17	99,99,99,99	0
84	MG	d6	104	1/1	0.69	0.27	76,76,76,76	0
84	MG	2	1990	1/1	0.69	0.17	116,116,116,116	0
84	MG	1	3961	1/1	0.71	0.26	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2110	1/1	0.71	0.14	124,124,124,124	0
84	MG	2	1983	1/1	0.71	0.20	112,112,112,112	0
84	MG	5	4149	1/1	0.71	0.20	74,74,74,74	0
84	MG	5	3728	1/1	0.71	0.13	51,51,51,51	0
84	MG	1	3957	1/1	0.71	0.20	71,71,71,71	0
84	MG	5	3837	1/1	0.71	0.11	72,72,72,72	0
84	MG	5	3599	1/1	0.71	0.21	92,92,92,92	0
84	MG	5	4024	1/1	0.71	0.13	68,68,68,68	0
84	MG	5	4030	1/1	0.71	0.13	99,99,99,99	0
84	MG	5	3624	1/1	0.71	0.12	65,65,65,65	0
84	MG	6	2103	1/1	0.71	0.10	94,94,94,94	0
84	MG	d9	102	1/1	0.71	0.17	94,94,94,94	0
84	MG	6	2091	1/1	0.72	0.25	68,68,68,68	0
84	MG	5	3970	1/1	0.72	0.13	75,75,75,75	0
84	MG	1	3792	1/1	0.72	0.14	94,94,94,94	0
84	MG	1	3818	1/1	0.72	0.12	88,88,88,88	0
84	MG	5	4072	1/1	0.72	0.21	109,109,109,109	0
84	MG	5	4076	1/1	0.72	0.12	77,77,77,77	0
84	MG	5	3622	1/1	0.72	0.14	84,84,84,84	0
84	MG	1	3842	1/1	0.72	0.23	92,92,92,92	0
84	MG	3	202	1/1	0.72	0.22	89,89,89,89	0
84	MG	4	206	1/1	0.72	0.13	60,60,60,60	0
84	MG	5	3725	1/1	0.72	0.11	71,71,71,71	0
84	MG	L5	301	1/1	0.72	0.20	89,89,89,89	0
84	MG	1	3446	1/1	0.72	0.16	62,62,62,62	0
84	MG	6	1976	1/1	0.72	0.09	84,84,84,84	0
84	MG	6	1977	1/1	0.72	0.12	103,103,103,103	0
84	MG	1	3711	1/1	0.72	0.14	84,84,84,84	0
84	MG	1	3735	1/1	0.72	0.25	77,77,77,77	0
84	MG	6	1983	1/1	0.73	0.14	100,100,100,100	0
84	MG	1	3958	1/1	0.73	0.12	88,88,88,88	0
84	MG	2	1996	1/1	0.73	0.18	111,111,111,111	0
84	MG	5	3703	1/1	0.73	0.10	70,70,70,70	0
84	MG	1	3902	1/1	0.73	0.10	77,77,77,77	0
84	MG	5	4049	1/1	0.73	0.12	79,79,79,79	0
84	MG	n1	201	1/1	0.73	0.07	61,61,61,61	0
84	MG	5	3601	1/1	0.73	0.20	89,89,89,89	0
84	MG	2	2037	1/1	0.73	0.36	99,99,99,99	0
84	MG	2	2007	1/1	0.73	0.12	88,88,88,88	0
84	MG	3	206	1/1	0.74	0.19	72,72,72,72	0
84	MG	2	2028	1/1	0.74	0.10	117,117,117,117	0
84	MG	5	4074	1/1	0.74	0.15	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3647	1/1	0.74	0.17	58,58,58,58	0
84	MG	2	2031	1/1	0.74	0.25	105,105,105,105	0
84	MG	1	3905	1/1	0.74	0.09	76,76,76,76	0
84	MG	2	2036	1/1	0.74	0.32	113,113,113,113	0
84	MG	4	212	1/1	0.74	0.18	84,84,84,84	0
84	MG	1	3952	1/1	0.74	0.10	88,88,88,88	0
84	MG	l3	411	1/1	0.74	0.08	53,53,53,53	0
84	MG	5	3808	1/1	0.74	0.18	66,66,66,66	0
84	MG	1	3629	1/1	0.74	0.18	136,136,136,136	0
84	MG	o4	502	1/1	0.74	0.23	87,87,87,87	0
84	MG	q3	503	1/1	0.74	0.14	79,79,79,79	0
84	MG	2	2005	1/1	0.74	0.15	83,83,83,83	0
84	MG	6	1917	1/1	0.74	0.17	89,89,89,89	0
84	MG	s0	301	1/1	0.74	0.15	103,103,103,103	0
84	MG	2	1955	1/1	0.74	0.16	86,86,86,86	0
84	MG	2	1995	1/1	0.74	0.23	100,100,100,100	0
84	MG	2	2016	1/1	0.74	0.12	72,72,72,72	0
84	MG	1	3872	1/1	0.75	0.16	73,73,73,73	0
84	MG	1	3493	1/1	0.75	0.17	76,76,76,76	0
84	MG	6	1920	1/1	0.75	0.10	81,81,81,81	0
84	MG	5	3836	1/1	0.75	0.10	79,79,79,79	0
84	MG	1	3626	1/1	0.75	0.08	63,63,63,63	0
84	MG	5	3877	1/1	0.75	0.09	89,89,89,89	0
84	MG	5	3927	1/1	0.75	0.20	55,55,55,55	1
84	MG	M5	305	1/1	0.75	0.17	72,72,72,72	0
84	MG	5	3695	1/1	0.75	0.18	93,93,93,93	0
84	MG	1	3554	1/1	0.75	0.12	67,67,67,67	0
84	MG	2	2010	1/1	0.75	0.23	98,98,98,98	0
84	MG	2	2011	1/1	0.75	0.15	102,102,102,102	0
84	MG	5	3749	1/1	0.75	0.13	77,77,77,77	0
84	MG	5	3772	1/1	0.76	0.10	128,128,128,128	0
84	MG	1	3934	1/1	0.76	0.14	65,65,65,65	0
84	MG	5	3613	1/1	0.76	0.24	79,79,79,79	0
84	MG	2	1978	1/1	0.76	0.12	64,64,64,64	0
84	MG	3	205	1/1	0.76	0.12	61,61,61,61	1
84	MG	7	214	1/1	0.76	0.20	80,80,80,80	0
84	MG	5	3855	1/1	0.76	0.12	69,69,69,69	0
84	MG	1	3635	1/1	0.76	0.16	117,117,117,117	0
84	MG	m3	201	1/1	0.76	0.24	88,88,88,88	0
84	MG	1	3627	1/1	0.76	0.10	81,81,81,81	0
84	MG	5	3964	1/1	0.76	0.16	82,82,82,82	0
84	MG	5	3650	1/1	0.76	0.08	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3924	1/1	0.76	0.22	65,65,65,65	0
84	MG	5	4019	1/1	0.76	0.12	66,66,66,66	0
84	MG	4	221	1/1	0.76	0.11	75,75,75,75	0
84	MG	2	2012	1/1	0.76	0.15	127,127,127,127	0
84	MG	6	1929	1/1	0.76	0.23	69,69,69,69	0
84	MG	d1	101	1/1	0.76	0.14	93,93,93,93	0
84	MG	d6	102	1/1	0.76	0.28	76,76,76,76	0
84	MG	1	3615	1/1	0.76	0.15	59,59,59,59	0
84	MG	5	3596	1/1	0.76	0.15	82,82,82,82	0
84	MG	1	3928	1/1	0.76	0.15	64,64,64,64	0
84	MG	5	3858	1/1	0.77	0.16	55,55,55,55	0
84	MG	1	3823	1/1	0.77	0.11	89,89,89,89	0
84	MG	5	3879	1/1	0.77	0.20	64,64,64,64	0
84	MG	5	3897	1/1	0.77	0.16	76,76,76,76	0
84	MG	1	3664	1/1	0.77	0.07	63,63,63,63	0
84	MG	6	1961	1/1	0.77	0.19	75,75,75,75	0
84	MG	1	3634	1/1	0.77	0.34	105,105,105,105	0
84	MG	1	3584	1/1	0.77	0.12	76,76,76,76	0
84	MG	1	3962	1/1	0.77	0.21	78,78,78,78	0
84	MG	6	2150	1/1	0.77	0.11	81,81,81,81	0
84	MG	6	2054	1/1	0.77	0.17	76,76,76,76	0
84	MG	5	3974	1/1	0.77	0.12	67,67,67,67	0
84	MG	5	3690	1/1	0.77	0.13	65,65,65,65	0
84	MG	2	1954	1/1	0.77	0.10	106,106,106,106	0
84	MG	1	3639	1/1	0.77	0.13	96,96,96,96	0
84	MG	5	4033	1/1	0.77	0.06	74,74,74,74	0
84	MG	1	3650	1/1	0.77	0.12	53,53,53,53	0
84	MG	1	3814	1/1	0.78	0.08	103,103,103,103	0
84	MG	6	2075	1/1	0.78	0.18	61,61,61,61	0
84	MG	2	1911	1/1	0.78	0.09	91,91,91,91	0
84	MG	C1	201	1/1	0.78	0.10	103,103,103,103	0
84	MG	8	208	1/1	0.78	0.14	79,79,79,79	0
84	MG	2	1919	1/1	0.78	0.22	84,84,84,84	0
84	MG	D3	204	1/1	0.78	0.16	94,94,94,94	0
84	MG	m3	203	1/1	0.78	0.13	81,81,81,81	0
84	MG	5	3477	1/1	0.78	0.20	60,60,60,60	0
84	MG	2	1923	1/1	0.78	0.18	87,87,87,87	0
84	MG	5	3753	1/1	0.78	0.13	85,85,85,85	0
84	MG	4	210	1/1	0.78	0.10	90,90,90,90	0
84	MG	2	1937	1/1	0.78	0.13	80,80,80,80	0
84	MG	5	4043	1/1	0.78	0.21	51,51,51,51	0
84	MG	1	3915	1/1	0.78	0.08	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3977	1/1	0.78	0.16	87,87,87,87	0
84	MG	2	2026	1/1	0.78	0.14	126,126,126,126	0
84	MG	1	3579	1/1	0.78	0.23	71,71,71,71	0
84	MG	L8	301	1/1	0.78	0.20	103,103,103,103	0
84	MG	1	3782	1/1	0.78	0.09	69,69,69,69	0
84	MG	6	1987	1/1	0.78	0.15	79,79,79,79	0
84	MG	6	1993	1/1	0.78	0.07	71,71,71,71	0
84	MG	1	3714	1/1	0.78	0.12	90,90,90,90	0
84	MG	6	2057	1/1	0.78	0.16	81,81,81,81	0
84	MG	2	1971	1/1	0.79	0.20	102,102,102,102	0
84	MG	5	4085	1/1	0.79	0.07	79,79,79,79	0
84	MG	1	3568	1/1	0.79	0.11	83,83,83,83	0
84	MG	5	4097	1/1	0.79	0.11	68,68,68,68	0
84	MG	1	3574	1/1	0.79	0.14	67,67,67,67	0
84	MG	5	3795	1/1	0.79	0.13	74,74,74,74	0
84	MG	6	1943	1/1	0.79	0.12	65,65,65,65	0
84	MG	2	1980	1/1	0.79	0.23	77,77,77,77	0
84	MG	1	3680	1/1	0.79	0.24	59,59,59,59	0
84	MG	7	216	1/1	0.79	0.14	74,74,74,74	1
84	MG	1	3773	1/1	0.79	0.16	62,62,62,62	0
84	MG	8	205	1/1	0.79	0.10	111,111,111,111	0
84	MG	L4	405	1/1	0.79	0.10	63,63,63,63	0
84	MG	6	2149	1/1	0.79	0.17	73,73,73,73	0
84	MG	6	2011	1/1	0.79	0.19	68,68,68,68	0
84	MG	6	2022	1/1	0.79	0.38	88,88,88,88	0
84	MG	5	3704	1/1	0.79	0.10	77,77,77,77	0
84	MG	5	3863	1/1	0.79	0.15	76,76,76,76	0
84	MG	1	3699	1/1	0.79	0.23	82,82,82,82	0
84	MG	6	2065	1/1	0.79	0.14	104,104,104,104	0
84	MG	2	1959	1/1	0.79	0.14	110,110,110,110	0
84	MG	1	3706	1/1	0.79	0.18	51,51,51,51	0
85	LLL	5	4163	31/31	0.79	0.10	112,112,112,112	0
84	MG	1	3560	1/1	0.80	0.24	78,78,78,78	0
84	MG	5	3614	1/1	0.80	0.16	81,81,81,81	0
84	MG	n5	202	1/1	0.80	0.17	78,78,78,78	0
84	MG	5	4084	1/1	0.80	0.15	96,96,96,96	0
84	MG	6	2096	1/1	0.80	0.12	65,65,65,65	0
84	MG	2	2019	1/1	0.80	0.16	127,127,127,127	0
84	MG	2	1961	1/1	0.80	0.07	109,109,109,109	0
84	MG	5	3755	1/1	0.80	0.21	59,59,59,59	0
84	MG	5	4121	1/1	0.80	0.12	84,84,84,84	0
84	MG	1	3467	1/1	0.80	0.11	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3774	1/1	0.80	0.14	116,116,116,116	0
84	MG	1	3865	1/1	0.80	0.12	81,81,81,81	0
84	MG	5	3520	1/1	0.80	0.22	54,54,54,54	0
84	MG	5	3526	1/1	0.80	0.10	61,61,61,61	0
84	MG	6	2126	1/1	0.80	0.17	92,92,92,92	0
84	MG	6	1982	1/1	0.80	0.16	104,104,104,104	0
84	MG	5	3813	1/1	0.80	0.15	58,58,58,58	0
84	MG	8	204	1/1	0.80	0.12	70,70,70,70	0
84	MG	6	1992	1/1	0.80	0.27	78,78,78,78	0
84	MG	1	3442	1/1	0.80	0.12	83,83,83,83	0
84	MG	6	2007	1/1	0.80	0.26	61,61,61,61	0
84	MG	1	3753	1/1	0.80	0.23	64,64,64,64	0
84	MG	8	219	1/1	0.80	0.36	90,90,90,90	0
84	MG	8	220	1/1	0.80	0.15	94,94,94,94	0
84	MG	5	3840	1/1	0.80	0.12	61,61,61,61	0
84	MG	2	1979	1/1	0.80	0.18	68,68,68,68	0
84	MG	1	3710	1/1	0.80	0.17	90,90,90,90	0
84	MG	5	3991	1/1	0.81	0.17	57,57,57,57	0
84	MG	1	3741	1/1	0.81	0.19	80,80,80,80	0
84	MG	1	3746	1/1	0.81	0.19	69,69,69,69	0
84	MG	18	301	1/1	0.81	0.09	99,99,99,99	0
84	MG	19	208	1/1	0.81	0.17	54,54,54,54	0
84	MG	1	3441	1/1	0.81	0.16	62,62,62,62	0
84	MG	1	3707	1/1	0.81	0.11	59,59,59,59	0
84	MG	m8	203	1/1	0.81	0.18	69,69,69,69	0
84	MG	5	4040	1/1	0.81	0.13	74,74,74,74	0
84	MG	6	2098	1/1	0.81	0.27	63,63,63,63	0
84	MG	5	3805	1/1	0.81	0.09	75,75,75,75	0
84	MG	1	3876	1/1	0.81	0.11	76,76,76,76	0
84	MG	1	3510	1/1	0.81	0.13	57,57,57,57	0
84	MG	5	3825	1/1	0.81	0.09	58,58,58,58	0
84	MG	1	3481	1/1	0.81	0.23	73,73,73,73	0
84	MG	1	3980	1/1	0.81	0.10	91,91,91,91	0
84	MG	2	2042	1/1	0.81	0.07	101,101,101,101	0
84	MG	S2	301	1/1	0.81	0.18	107,107,107,107	0
84	MG	1	3812	1/1	0.81	0.19	82,82,82,82	0
84	MG	6	2125	1/1	0.81	0.08	71,71,71,71	0
84	MG	2	1913	1/1	0.81	0.13	81,81,81,81	0
84	MG	6	1975	1/1	0.81	0.17	83,83,83,83	0
84	MG	1	3698	1/1	0.81	0.11	69,69,69,69	0
84	MG	1	3733	1/1	0.81	0.16	80,80,80,80	0
84	MG	6	1978	1/1	0.81	0.11	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3611	1/1	0.81	0.26	47,47,47,47	0
84	MG	2	1931	1/1	0.81	0.32	90,90,90,90	0
84	MG	5	3524	1/1	0.81	0.17	53,53,53,53	0
84	MG	5	3965	1/1	0.81	0.10	65,65,65,65	0
84	MG	2	2014	1/1	0.81	0.17	88,88,88,88	0
84	MG	5	3591	1/1	0.81	0.13	61,61,61,61	0
84	MG	8	207	1/1	0.81	0.21	74,74,74,74	0
84	MG	1	3739	1/1	0.81	0.24	72,72,72,72	0
84	MG	1	3645	1/1	0.82	0.24	55,55,55,55	0
84	MG	2	1969	1/1	0.82	0.13	100,100,100,100	0
84	MG	4	211	1/1	0.82	0.18	86,86,86,86	0
84	MG	5	3616	1/1	0.82	0.10	82,82,82,82	0
84	MG	2	2039	1/1	0.82	0.16	95,95,95,95	0
84	MG	6	2024	1/1	0.82	0.11	80,80,80,80	0
84	MG	2	2006	1/1	0.82	0.26	106,106,106,106	0
84	MG	5	4035	1/1	0.82	0.10	76,76,76,76	0
84	MG	1	3694	1/1	0.82	0.10	62,62,62,62	0
84	MG	2	2008	1/1	0.82	0.12	117,117,117,117	0
84	MG	5	4047	1/1	0.82	0.15	52,52,52,52	0
84	MG	6	2083	1/1	0.82	0.09	78,78,78,78	0
84	MG	6	2088	1/1	0.82	0.17	83,83,83,83	0
84	MG	1	3695	1/1	0.82	0.26	67,67,67,67	0
84	MG	5	4055	1/1	0.82	0.10	103,103,103,103	0
84	MG	6	2093	1/1	0.82	0.06	75,75,75,75	0
84	MG	5	4056	1/1	0.82	0.12	95,95,95,95	0
84	MG	n0	204	1/1	0.82	0.12	57,57,57,57	0
84	MG	5	4071	1/1	0.82	0.17	103,103,103,103	0
84	MG	6	2099	1/1	0.82	0.20	57,57,57,57	0
84	MG	1	3948	1/1	0.82	0.17	82,82,82,82	0
84	MG	1	3986	1/1	0.82	0.25	68,68,68,68	0
84	MG	q2	506	1/1	0.82	0.06	68,68,68,68	0
84	MG	5	3437	1/1	0.82	0.15	59,59,59,59	0
84	MG	1	3578	1/1	0.82	0.13	78,78,78,78	0
84	MG	5	3866	1/1	0.82	0.21	51,51,51,51	1
84	MG	5	3870	1/1	0.82	0.09	54,54,54,54	0
84	MG	1	3742	1/1	0.82	0.14	78,78,78,78	0
84	MG	6	2121	1/1	0.82	0.17	97,97,97,97	0
84	MG	6	1935	1/1	0.82	0.11	73,73,73,73	0
84	MG	6	1936	1/1	0.82	0.17	65,65,65,65	0
84	MG	6	1941	1/1	0.82	0.15	66,66,66,66	1
84	MG	6	2128	1/1	0.82	0.10	77,77,77,77	0
84	MG	1	3555	1/1	0.82	0.08	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2131	1/1	0.82	0.17	89,89,89,89	0
84	MG	6	1951	1/1	0.82	0.13	74,74,74,74	0
84	MG	5	4125	1/1	0.82	0.12	55,55,55,55	0
84	MG	N5	201	1/1	0.82	0.09	95,95,95,95	0
84	MG	6	2155	1/1	0.82	0.20	84,84,84,84	0
84	MG	3	215	1/1	0.82	0.08	74,74,74,74	0
84	MG	5	4134	1/1	0.82	0.12	73,73,73,73	0
84	MG	2	1956	1/1	0.82	0.08	72,72,72,72	0
84	MG	2	1903	1/1	0.82	0.14	90,90,90,90	0
84	MG	1	3925	1/1	0.82	0.12	83,83,83,83	0
84	MG	6	1985	1/1	0.82	0.17	92,92,92,92	0
84	MG	6	1986	1/1	0.82	0.13	82,82,82,82	0
85	LLL	1	3995	31/31	0.82	0.14	124,125,125,125	0
84	MG	5	3773	1/1	0.82	0.09	139,139,139,139	0
86	ZN	d7	101	1/1	0.82	0.09	272,272,272,272	0
84	MG	5	3867	1/1	0.83	0.10	55,55,55,55	0
84	MG	5	4073	1/1	0.83	0.09	97,97,97,97	0
84	MG	6	2079	1/1	0.83	0.21	63,63,63,63	0
84	MG	1	3960	1/1	0.83	0.09	79,79,79,79	0
84	MG	1	3916	1/1	0.83	0.09	70,70,70,70	0
84	MG	o1	201	1/1	0.83	0.13	79,79,79,79	0
84	MG	2	2034	1/1	0.83	0.22	92,92,92,92	0
84	MG	q2	504	1/1	0.83	0.12	60,60,60,60	0
84	MG	5	3889	1/1	0.83	0.17	55,55,55,55	0
84	MG	1	3917	1/1	0.83	0.17	74,74,74,74	0
84	MG	5	3917	1/1	0.83	0.15	62,62,62,62	0
84	MG	5	4116	1/1	0.83	0.10	82,82,82,82	0
84	MG	5	4118	1/1	0.83	0.10	87,87,87,87	0
84	MG	6	2102	1/1	0.83	0.22	80,80,80,80	0
84	MG	1	3788	1/1	0.83	0.08	76,76,76,76	1
84	MG	5	3937	1/1	0.83	0.14	60,60,60,60	0
84	MG	5	3610	1/1	0.83	0.18	110,110,110,110	0
84	MG	5	4130	1/1	0.83	0.06	81,81,81,81	0
84	MG	1	3549	1/1	0.83	0.14	67,67,67,67	0
84	MG	1	3807	1/1	0.83	0.12	77,77,77,77	0
84	MG	6	1952	1/1	0.83	0.11	68,68,68,68	0
84	MG	5	3615	1/1	0.83	0.12	89,89,89,89	0
84	MG	5	3783	1/1	0.83	0.16	41,41,41,41	0
84	MG	1	3811	1/1	0.83	0.12	80,80,80,80	0
84	MG	5	3802	1/1	0.83	0.10	75,75,75,75	0
84	MG	8	202	1/1	0.83	0.07	90,90,90,90	0
84	MG	1	3637	1/1	0.83	0.09	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3470	1/1	0.83	0.26	56,56,56,56	0
84	MG	1	3884	1/1	0.83	0.13	80,80,80,80	0
84	MG	6	2143	1/1	0.83	0.30	104,104,104,104	0
84	MG	1	3743	1/1	0.83	0.22	72,72,72,72	0
84	MG	8	213	1/1	0.83	0.14	68,68,68,68	0
84	MG	1	3784	1/1	0.83	0.13	72,72,72,72	0
84	MG	6	2160	1/1	0.83	0.11	88,88,88,88	0
84	MG	1	3835	1/1	0.83	0.08	58,58,58,58	0
84	MG	2	2024	1/1	0.83	0.13	130,130,130,130	0
84	MG	c3	201	1/1	0.83	0.24	89,89,89,89	0
84	MG	2	1966	1/1	0.83	0.26	106,106,106,106	0
84	MG	2	1967	1/1	0.83	0.22	90,90,90,90	0
84	MG	5	3549	1/1	0.83	0.08	63,63,63,63	0
84	MG	6	2027	1/1	0.83	0.07	61,61,61,61	0
84	MG	5	4057	1/1	0.83	0.06	99,99,99,99	1
84	MG	m4	201	1/1	0.83	0.09	69,69,69,69	1
84	MG	6	2058	1/1	0.83	0.12	81,81,81,81	0
84	MG	5	3708	1/1	0.83	0.11	75,75,75,75	0
84	MG	5	3595	1/1	0.84	0.07	74,74,74,74	0
84	MG	1	3533	1/1	0.84	0.23	75,75,75,75	0
84	MG	6	1903	1/1	0.84	0.27	67,67,67,67	0
84	MG	5	3939	1/1	0.84	0.25	76,76,76,76	0
84	MG	1	3661	1/1	0.84	0.08	78,78,78,78	0
84	MG	1	3935	1/1	0.84	0.08	68,68,68,68	0
84	MG	2	2038	1/1	0.84	0.17	117,117,117,117	0
84	MG	6	1933	1/1	0.84	0.24	74,74,74,74	0
84	MG	6	1934	1/1	0.84	0.24	67,67,67,67	0
84	MG	1	3936	1/1	0.84	0.08	67,67,67,67	0
84	MG	1	3495	1/1	0.84	0.16	75,75,75,75	0
84	MG	5	3984	1/1	0.84	0.09	62,62,62,62	0
84	MG	5	3796	1/1	0.84	0.07	67,67,67,67	0
84	MG	5	4003	1/1	0.84	0.12	77,77,77,77	0
84	MG	6	2108	1/1	0.84	0.23	79,79,79,79	0
84	MG	1	3547	1/1	0.84	0.10	65,65,65,65	0
84	MG	1	3888	1/1	0.84	0.16	68,68,68,68	0
84	MG	1	3817	1/1	0.84	0.16	72,72,72,72	0
84	MG	2	1944	1/1	0.84	0.40	87,87,87,87	0
84	MG	1	3754	1/1	0.84	0.19	68,68,68,68	0
84	MG	1	3911	1/1	0.84	0.15	56,56,56,56	0
84	MG	5	3456	1/1	0.84	0.13	53,53,53,53	0
84	MG	5	3664	1/1	0.84	0.14	56,56,56,56	0
84	MG	5	3476	1/1	0.84	0.18	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3857	1/1	0.84	0.08	65,65,65,65	0
84	MG	l5	305	1/1	0.84	0.12	77,77,77,77	0
84	MG	2	1987	1/1	0.84	0.14	110,110,110,110	0
84	MG	5	3491	1/1	0.84	0.10	62,62,62,62	0
84	MG	6	1998	1/1	0.84	0.15	78,78,78,78	0
84	MG	5	4058	1/1	0.84	0.11	95,95,95,95	0
84	MG	5	3696	1/1	0.84	0.17	94,94,94,94	0
84	MG	1	3681	1/1	0.84	0.14	62,62,62,62	0
84	MG	1	3618	1/1	0.84	0.09	58,58,58,58	1
84	MG	1	3619	1/1	0.84	0.26	59,59,59,59	0
84	MG	6	2035	1/1	0.84	0.10	82,82,82,82	0
84	MG	s2	302	1/1	0.84	0.12	81,81,81,81	0
84	MG	6	2042	1/1	0.84	0.13	77,77,77,77	0
84	MG	c3	206	1/1	0.84	0.08	80,80,80,80	0
84	MG	6	2051	1/1	0.84	0.15	69,69,69,69	0
84	MG	d2	201	1/1	0.84	0.17	80,80,80,80	0
84	MG	1	3623	1/1	0.84	0.12	68,68,68,68	0
84	MG	5	3571	1/1	0.84	0.11	77,77,77,77	0
84	MG	5	3896	1/1	0.84	0.20	71,71,71,71	0
84	MG	1	3853	1/1	0.84	0.10	60,60,60,60	0
84	MG	1	3491	1/1	0.84	0.10	79,79,79,79	0
85	LLL	2	2045	31/31	0.84	0.20	117,117,117,118	0
84	MG	6	2070	1/1	0.84	0.17	128,128,128,128	0
85	LLL	7	233	31/31	0.84	0.19	82,82,82,82	31
86	ZN	D7	101	1/1	0.84	0.07	264,264,264,264	0
84	MG	5	4101	1/1	0.84	0.12	75,75,75,75	0
84	MG	M3	204	1/1	0.85	0.08	69,69,69,69	0
84	MG	7	223	1/1	0.85	0.07	75,75,75,75	0
84	MG	7	229	1/1	0.85	0.16	72,72,72,72	0
84	MG	6	2030	1/1	0.85	0.17	82,82,82,82	0
84	MG	1	3744	1/1	0.85	0.09	82,82,82,82	0
84	MG	6	2039	1/1	0.85	0.21	83,83,83,83	0
84	MG	1	3904	1/1	0.85	0.15	76,76,76,76	0
84	MG	2	2035	1/1	0.85	0.14	101,101,101,101	0
84	MG	1	3494	1/1	0.85	0.12	81,81,81,81	0
84	MG	5	3688	1/1	0.85	0.15	73,73,73,73	0
84	MG	1	3662	1/1	0.85	0.16	78,78,78,78	0
84	MG	5	3945	1/1	0.85	0.09	59,59,59,59	0
84	MG	1	3976	1/1	0.85	0.18	71,71,71,71	0
84	MG	1	3819	1/1	0.85	0.07	80,80,80,80	0
84	MG	l3	407	1/1	0.85	0.17	55,55,55,55	0
84	MG	1	3978	1/1	0.85	0.17	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3663	1/1	0.85	0.15	69,69,69,69	0
84	MG	1	3430	1/1	0.85	0.22	54,54,54,54	0
84	MG	6	2089	1/1	0.85	0.18	71,71,71,71	0
84	MG	2	1926	1/1	0.85	0.22	89,89,89,89	0
84	MG	1	3778	1/1	0.85	0.11	61,61,61,61	0
84	MG	2	1991	1/1	0.85	0.09	103,103,103,103	0
84	MG	5	3732	1/1	0.85	0.12	70,70,70,70	0
84	MG	5	3737	1/1	0.85	0.17	49,49,49,49	0
84	MG	2	1930	1/1	0.85	0.23	81,81,81,81	0
84	MG	3	203	1/1	0.85	0.16	103,103,103,103	0
84	MG	2	1933	1/1	0.85	0.14	88,88,88,88	0
84	MG	n5	201	1/1	0.85	0.08	96,96,96,96	0
84	MG	5	4039	1/1	0.85	0.09	77,77,77,77	0
84	MG	1	3669	1/1	0.85	0.11	78,78,78,78	0
84	MG	5	3485	1/1	0.85	0.18	57,57,57,57	0
84	MG	q1	101	1/1	0.85	0.47	67,67,67,67	0
84	MG	2	1939	1/1	0.85	0.13	80,80,80,80	0
84	MG	5	3492	1/1	0.85	0.08	74,74,74,74	0
84	MG	5	4051	1/1	0.85	0.13	77,77,77,77	0
84	MG	5	3519	1/1	0.85	0.18	42,42,42,42	0
84	MG	5	3787	1/1	0.85	0.22	48,48,48,48	1
84	MG	5	3789	1/1	0.85	0.22	48,48,48,48	0
84	MG	6	2124	1/1	0.85	0.17	76,76,76,76	0
84	MG	1	3506	1/1	0.85	0.18	57,57,57,57	0
84	MG	5	4060	1/1	0.85	0.11	68,68,68,68	0
84	MG	2	1942	1/1	0.85	0.19	84,84,84,84	0
84	MG	1	3786	1/1	0.85	0.28	70,70,70,70	0
84	MG	5	3543	1/1	0.85	0.15	52,52,52,52	1
84	MG	2	1948	1/1	0.85	0.23	82,82,82,82	0
84	MG	5	3566	1/1	0.85	0.17	60,60,60,60	0
84	MG	6	2147	1/1	0.85	0.12	78,78,78,78	0
84	MG	2	1950	1/1	0.85	0.17	94,94,94,94	0
84	MG	6	1945	1/1	0.85	0.18	70,70,70,70	0
84	MG	6	2154	1/1	0.85	0.15	78,78,78,78	0
84	MG	5	3835	1/1	0.85	0.12	62,62,62,62	0
84	MG	6	2156	1/1	0.85	0.18	77,77,77,77	0
84	MG	6	2158	1/1	0.85	0.15	77,77,77,77	0
84	MG	1	3490	1/1	0.85	0.10	80,80,80,80	0
84	MG	5	4089	1/1	0.85	0.20	62,62,62,62	0
84	MG	1	3625	1/1	0.85	0.09	71,71,71,71	0
84	MG	2	1953	1/1	0.85	0.14	96,96,96,96	0
84	MG	1	3419	1/1	0.85	0.14	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3937	1/1	0.85	0.14	73,73,73,73	0
84	MG	6	1980	1/1	0.85	0.15	108,108,108,108	0
84	MG	4	219	1/1	0.85	0.13	68,68,68,68	0
84	MG	5	3860	1/1	0.85	0.08	56,56,56,56	0
84	MG	1	3880	1/1	0.85	0.16	73,73,73,73	0
84	MG	1	3445	1/1	0.85	0.17	64,64,64,64	0
84	MG	5	4132	1/1	0.85	0.15	94,94,94,94	0
84	MG	2	1962	1/1	0.85	0.11	100,100,100,100	0
85	LLL	1	3997	31/31	0.85	0.10	108,108,108,108	0
85	LLL	4	224	31/31	0.85	0.13	99,99,99,99	0
84	MG	2	2025	1/1	0.85	0.14	123,123,123,123	0
84	MG	5	4143	1/1	0.85	0.09	72,72,72,72	0
85	LLL	5	4173	31/31	0.85	0.16	106,106,107,107	31
84	MG	1	3658	1/1	0.85	0.11	70,70,70,70	0
84	MG	6	2008	1/1	0.85	0.17	67,67,67,67	0
84	MG	1	3893	1/1	0.85	0.21	57,57,57,57	0
84	MG	6	2053	1/1	0.86	0.17	74,74,74,74	0
84	MG	5	4020	1/1	0.86	0.11	72,72,72,72	0
84	MG	5	3778	1/1	0.86	0.09	92,92,92,92	0
84	MG	1	3462	1/1	0.86	0.12	54,54,54,54	1
84	MG	1	3551	1/1	0.86	0.14	68,68,68,68	0
84	MG	1	3985	1/1	0.86	0.23	77,77,77,77	0
84	MG	1	3831	1/1	0.86	0.29	59,59,59,59	0
84	MG	5	3606	1/1	0.86	0.10	84,84,84,84	0
84	MG	5	3609	1/1	0.86	0.10	87,87,87,87	0
84	MG	6	2082	1/1	0.86	0.09	67,67,67,67	0
84	MG	5	3803	1/1	0.86	0.09	76,76,76,76	0
84	MG	1	3903	1/1	0.86	0.13	80,80,80,80	0
84	MG	5	3611	1/1	0.86	0.23	104,104,104,104	0
84	MG	1	3738	1/1	0.86	0.34	75,75,75,75	0
84	MG	n5	203	1/1	0.86	0.17	89,89,89,89	0
84	MG	2	2040	1/1	0.86	0.15	95,95,95,95	0
84	MG	1	3686	1/1	0.86	0.12	57,57,57,57	0
84	MG	Q2	504	1/1	0.86	0.10	59,59,59,59	0
84	MG	5	3621	1/1	0.86	0.10	77,77,77,77	0
84	MG	2	2003	1/1	0.86	0.12	118,118,118,118	0
84	MG	2	2004	1/1	0.86	0.29	81,81,81,81	0
84	MG	1	3800	1/1	0.86	0.13	67,67,67,67	0
84	MG	2	1909	1/1	0.86	0.21	94,94,94,94	0
84	MG	5	3859	1/1	0.86	0.10	71,71,71,71	0
84	MG	3	211	1/1	0.86	0.20	71,71,71,71	0
84	MG	5	3653	1/1	0.86	0.11	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2111	1/1	0.86	0.16	113,113,113,113	0
84	MG	5	3438	1/1	0.86	0.12	64,64,64,64	1
84	MG	2	1912	1/1	0.86	0.18	86,86,86,86	0
84	MG	5	3458	1/1	0.86	0.13	57,57,57,57	0
84	MG	5	3691	1/1	0.86	0.16	74,74,74,74	0
84	MG	6	1939	1/1	0.86	0.09	58,58,58,58	0
84	MG	6	1940	1/1	0.86	0.10	69,69,69,69	0
84	MG	5	4107	1/1	0.86	0.10	59,59,59,59	0
84	MG	1	3803	1/1	0.86	0.10	76,76,76,76	0
84	MG	5	3886	1/1	0.86	0.12	77,77,77,77	0
84	MG	4	202	1/1	0.86	0.09	59,59,59,59	0
84	MG	5	3891	1/1	0.86	0.12	75,75,75,75	0
84	MG	6	1959	1/1	0.86	0.14	68,68,68,68	0
84	MG	5	3893	1/1	0.86	0.10	65,65,65,65	0
84	MG	6	1974	1/1	0.86	0.10	90,90,90,90	0
84	MG	1	3758	1/1	0.86	0.16	74,74,74,74	0
84	MG	6	2148	1/1	0.86	0.10	78,78,78,78	0
84	MG	1	3767	1/1	0.86	0.16	57,57,57,57	0
84	MG	1	3535	1/1	0.86	0.23	62,62,62,62	0
84	MG	2	1976	1/1	0.86	0.22	92,92,92,92	0
84	MG	5	3712	1/1	0.86	0.13	75,75,75,75	0
84	MG	5	3938	1/1	0.86	0.18	66,66,66,66	0
84	MG	6	2157	1/1	0.86	0.06	63,63,63,63	0
84	MG	5	4150	1/1	0.86	0.18	81,81,81,81	0
84	MG	6	1984	1/1	0.86	0.08	89,89,89,89	0
84	MG	1	3776	1/1	0.86	0.08	68,68,68,68	1
84	MG	4	217	1/1	0.86	0.20	79,79,79,79	0
84	MG	5	3962	1/1	0.86	0.21	95,95,95,95	0
84	MG	s6	301	1/1	0.86	0.12	78,78,78,78	0
84	MG	c1	201	1/1	0.86	0.10	78,78,78,78	0
84	MG	6	1991	1/1	0.86	0.14	71,71,71,71	0
84	MG	c3	204	1/1	0.86	0.07	107,107,107,107	0
84	MG	5	3963	1/1	0.86	0.07	102,102,102,102	0
84	MG	1	3963	1/1	0.86	0.20	76,76,76,76	0
84	MG	2	1936	1/1	0.86	0.16	86,86,86,86	0
84	MG	1	3656	1/1	0.86	0.23	52,52,52,52	0
84	MG	5	3968	1/1	0.86	0.13	56,56,56,56	0
84	MG	5	3552	1/1	0.86	0.30	68,68,68,68	0
84	MG	5	3564	1/1	0.86	0.21	59,59,59,59	0
84	MG	8	209	1/1	0.86	0.18	80,80,80,80	0
84	MG	2	2027	1/1	0.86	0.17	95,95,95,95	0
85	LLL	1	4002	31/31	0.86	0.12	136,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	4	223	1/1	0.86	0.15	72,72,72,72	0
84	MG	6	2034	1/1	0.86	0.18	69,69,69,69	0
85	LLL	5	4162	31/31	0.86	0.12	117,118,118,118	0
84	MG	L2	303	1/1	0.86	0.07	88,88,88,88	0
84	MG	6	2037	1/1	0.86	0.13	87,87,87,87	0
84	MG	5	4004	1/1	0.86	0.07	80,80,80,80	0
84	MG	1	3622	1/1	0.86	0.20	87,87,87,87	0
84	MG	l5	302	1/1	0.86	0.06	78,78,78,78	0
84	MG	1	3580	1/1	0.87	0.10	75,75,75,75	0
84	MG	5	3565	1/1	0.87	0.14	57,57,57,57	0
84	MG	N1	201	1/1	0.87	0.14	68,68,68,68	0
84	MG	5	3568	1/1	0.87	0.19	67,67,67,67	0
84	MG	2	1988	1/1	0.87	0.25	112,112,112,112	0
84	MG	5	3574	1/1	0.87	0.14	58,58,58,58	0
84	MG	5	3590	1/1	0.87	0.14	59,59,59,59	0
84	MG	2	1989	1/1	0.87	0.10	114,114,114,114	0
84	MG	5	4009	1/1	0.87	0.18	53,53,53,53	0
84	MG	l7	303	1/1	0.87	0.23	56,56,56,56	0
84	MG	5	4010	1/1	0.87	0.13	53,53,53,53	0
84	MG	5	4015	1/1	0.87	0.18	59,59,59,59	0
84	MG	1	3953	1/1	0.87	0.10	72,72,72,72	0
84	MG	6	2085	1/1	0.87	0.11	88,88,88,88	0
84	MG	1	3954	1/1	0.87	0.06	71,71,71,71	0
84	MG	1	3955	1/1	0.87	0.13	69,69,69,69	0
84	MG	m7	203	1/1	0.87	0.14	63,63,63,63	0
84	MG	5	4028	1/1	0.87	0.14	59,59,59,59	0
84	MG	5	3597	1/1	0.87	0.11	70,70,70,70	0
84	MG	1	3867	1/1	0.87	0.13	59,59,59,59	0
84	MG	1	3749	1/1	0.87	0.13	60,60,60,60	0
84	MG	2	1998	1/1	0.87	0.10	154,154,154,154	0
84	MG	2	1908	1/1	0.87	0.20	104,104,104,104	0
84	MG	1	3521	1/1	0.87	0.17	69,69,69,69	0
84	MG	5	3807	1/1	0.87	0.17	71,71,71,71	0
84	MG	1	3918	1/1	0.87	0.14	59,59,59,59	0
84	MG	1	3561	1/1	0.87	0.20	79,79,79,79	0
84	MG	4	215	1/1	0.87	0.15	69,69,69,69	0
84	MG	2	1915	1/1	0.87	0.16	95,95,95,95	0
84	MG	5	3419	1/1	0.87	0.14	49,49,49,49	0
84	MG	5	3618	1/1	0.87	0.26	83,83,83,83	0
84	MG	5	3619	1/1	0.87	0.11	86,86,86,86	0
84	MG	5	4063	1/1	0.87	0.12	94,94,94,94	0
84	MG	5	4070	1/1	0.87	0.21	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	1924	1/1	0.87	0.12	70,70,70,70	0
84	MG	5	3841	1/1	0.87	0.09	61,61,61,61	0
84	MG	5	3436	1/1	0.87	0.20	66,66,66,66	0
84	MG	1	3879	1/1	0.87	0.09	63,63,63,63	0
84	MG	2	1965	1/1	0.87	0.16	91,91,91,91	0
84	MG	1	3641	1/1	0.87	0.10	104,104,104,104	0
84	MG	5	4080	1/1	0.87	0.06	67,67,67,67	0
84	MG	5	4082	1/1	0.87	0.11	71,71,71,71	0
84	MG	6	2133	1/1	0.87	0.10	84,84,84,84	0
84	MG	5	3645	1/1	0.87	0.11	59,59,59,59	0
84	MG	6	2137	1/1	0.87	0.10	76,76,76,76	0
84	MG	6	2141	1/1	0.87	0.14	99,99,99,99	0
84	MG	1	3761	1/1	0.87	0.14	73,73,73,73	1
84	MG	6	2146	1/1	0.87	0.07	87,87,87,87	0
84	MG	1	3793	1/1	0.87	0.21	85,85,85,85	0
84	MG	6	1949	1/1	0.87	0.12	74,74,74,74	0
84	MG	1	3763	1/1	0.87	0.14	66,66,66,66	0
84	MG	5	3663	1/1	0.87	0.14	46,46,46,46	0
84	MG	5	3872	1/1	0.87	0.09	76,76,76,76	0
84	MG	6	1960	1/1	0.87	0.20	62,62,62,62	0
84	MG	5	3874	1/1	0.87	0.17	70,70,70,70	0
84	MG	5	4114	1/1	0.87	0.10	83,83,83,83	0
84	MG	5	3483	1/1	0.87	0.10	57,57,57,57	0
84	MG	5	3878	1/1	0.87	0.14	79,79,79,79	0
84	MG	5	4119	1/1	0.87	0.10	142,142,142,142	0
84	MG	5	4120	1/1	0.87	0.07	90,90,90,90	0
84	MG	2	1972	1/1	0.87	0.11	88,88,88,88	0
84	MG	2	1975	1/1	0.87	0.31	87,87,87,87	0
84	MG	1	3614	1/1	0.87	0.13	58,58,58,58	0
84	MG	5	3514	1/1	0.87	0.10	65,65,65,65	0
84	MG	c3	202	1/1	0.87	0.33	87,87,87,87	0
84	MG	5	3694	1/1	0.87	0.13	84,84,84,84	0
84	MG	1	3532	1/1	0.87	0.19	68,68,68,68	0
84	MG	1	3668	1/1	0.87	0.10	74,74,74,74	0
84	MG	2	2023	1/1	0.87	0.10	132,132,132,132	0
84	MG	5	3919	1/1	0.87	0.07	51,51,51,51	0
84	MG	d6	103	1/1	0.87	0.24	77,77,77,77	0
84	MG	M0	302	1/1	0.87	0.18	64,64,64,64	0
84	MG	5	3936	1/1	0.87	0.12	55,55,55,55	0
84	MG	5	3528	1/1	0.87	0.29	56,56,56,56	0
84	MG	7	222	1/1	0.87	0.07	66,66,66,66	0
84	MG	5	3711	1/1	0.87	0.09	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	LLL	1	3998	31/31	0.87	0.17	99,100,100,100	31
85	LLL	1	4001	31/31	0.87	0.13	121,121,121,121	0
84	MG	7	228	1/1	0.87	0.13	73,73,73,73	0
84	MG	5	3534	1/1	0.87	0.11	50,50,50,50	0
84	MG	6	2026	1/1	0.87	0.17	78,78,78,78	0
84	MG	7	230	1/1	0.87	0.13	75,75,75,75	0
84	MG	5	3716	1/1	0.87	0.20	62,62,62,62	0
84	MG	2	1938	1/1	0.87	0.17	76,76,76,76	0
84	MG	5	3727	1/1	0.87	0.17	46,46,46,46	0
84	MG	1	3855	1/1	0.87	0.20	55,55,55,55	1
84	MG	M3	205	1/1	0.87	0.10	82,82,82,82	0
84	MG	6	2041	1/1	0.88	0.12	73,73,73,73	0
84	MG	1	3509	1/1	0.88	0.24	60,60,60,60	0
84	MG	5	3998	1/1	0.88	0.08	54,54,54,54	0
84	MG	l3	406	1/1	0.88	0.08	63,63,63,63	0
84	MG	1	3930	1/1	0.88	0.17	73,73,73,73	0
84	MG	l3	409	1/1	0.88	0.09	70,70,70,70	0
84	MG	2	1928	1/1	0.88	0.11	67,67,67,67	0
84	MG	3	219	1/1	0.88	0.07	79,79,79,79	0
84	MG	1	3806	1/1	0.88	0.14	65,65,65,65	0
84	MG	1	3718	1/1	0.88	0.17	60,60,60,60	0
84	MG	1	3875	1/1	0.88	0.25	64,64,64,64	0
84	MG	l9	201	1/1	0.88	0.12	53,53,53,53	0
84	MG	5	3608	1/1	0.88	0.08	95,95,95,95	0
84	MG	1	3731	1/1	0.88	0.15	80,80,80,80	0
84	MG	1	3944	1/1	0.88	0.07	67,67,67,67	0
84	MG	2	1993	1/1	0.88	0.19	99,99,99,99	0
84	MG	m5	303	1/1	0.88	0.10	79,79,79,79	0
84	MG	1	3732	1/1	0.88	0.10	75,75,75,75	0
84	MG	1	3556	1/1	0.88	0.13	73,73,73,73	0
84	MG	D3	205	1/1	0.88	0.25	86,86,86,86	0
84	MG	5	3403	1/1	0.88	0.12	54,54,54,54	0
84	MG	5	3830	1/1	0.88	0.08	49,49,49,49	1
84	MG	1	3768	1/1	0.88	0.14	67,67,67,67	0
84	MG	2	1941	1/1	0.88	0.08	60,60,60,60	0
84	MG	2	1999	1/1	0.88	0.13	73,73,73,73	0
84	MG	1	3885	1/1	0.88	0.17	80,80,80,80	0
84	MG	5	3443	1/1	0.88	0.18	49,49,49,49	0
84	MG	5	3845	1/1	0.88	0.09	48,48,48,48	1
84	MG	q2	502	1/1	0.88	0.12	63,63,63,63	0
84	MG	1	3558	1/1	0.88	0.15	68,68,68,68	0
84	MG	1	3585	1/1	0.88	0.12	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3898	1/1	0.88	0.06	99,99,99,99	0
84	MG	1	3899	1/1	0.88	0.07	82,82,82,82	0
84	MG	1	3900	1/1	0.88	0.06	85,85,85,85	0
84	MG	6	1913	1/1	0.88	0.13	107,107,107,107	0
84	MG	5	3861	1/1	0.88	0.10	63,63,63,63	0
84	MG	5	3484	1/1	0.88	0.11	74,74,74,74	0
84	MG	1	3654	1/1	0.88	0.23	53,53,53,53	0
84	MG	M3	202	1/1	0.88	0.07	80,80,80,80	0
84	MG	6	1930	1/1	0.88	0.15	70,70,70,70	0
84	MG	1	3825	1/1	0.88	0.13	77,77,77,77	0
84	MG	5	3494	1/1	0.88	0.21	59,59,59,59	0
84	MG	5	3873	1/1	0.88	0.23	71,71,71,71	0
84	MG	6	2132	1/1	0.88	0.10	83,83,83,83	0
84	MG	1	3587	1/1	0.88	0.24	58,58,58,58	0
84	MG	5	3876	1/1	0.88	0.08	66,66,66,66	0
84	MG	1	3964	1/1	0.88	0.25	87,87,87,87	0
84	MG	1	3834	1/1	0.88	0.31	70,70,70,70	0
84	MG	1	3454	1/1	0.88	0.18	61,61,61,61	0
84	MG	6	2145	1/1	0.88	0.10	77,77,77,77	0
84	MG	5	3698	1/1	0.88	0.14	81,81,81,81	0
84	MG	5	3700	1/1	0.88	0.16	65,65,65,65	0
84	MG	1	3840	1/1	0.88	0.11	67,67,67,67	0
84	MG	1	3841	1/1	0.88	0.09	92,92,92,92	0
84	MG	5	3894	1/1	0.88	0.10	72,72,72,72	0
84	MG	5	3895	1/1	0.88	0.12	57,57,57,57	0
84	MG	5	3706	1/1	0.88	0.16	71,71,71,71	0
84	MG	O7	103	1/1	0.88	0.07	59,59,59,59	0
84	MG	5	3542	1/1	0.88	0.09	54,54,54,54	0
84	MG	5	3918	1/1	0.88	0.12	58,58,58,58	0
84	MG	1	3982	1/1	0.88	0.13	90,90,90,90	0
84	MG	2	2021	1/1	0.88	0.16	90,90,90,90	0
84	MG	5	3929	1/1	0.88	0.18	43,43,43,43	0
84	MG	5	3722	1/1	0.88	0.13	77,77,77,77	0
84	MG	s5	301	1/1	0.88	0.10	74,74,74,74	0
84	MG	5	4145	1/1	0.88	0.09	54,54,54,54	0
84	MG	5	4148	1/1	0.88	0.10	54,54,54,54	0
84	MG	1	3517	1/1	0.88	0.20	54,54,54,54	0
84	MG	1	3457	1/1	0.88	0.09	63,63,63,63	0
84	MG	7	213	1/1	0.88	0.14	71,71,71,71	0
84	MG	6	1990	1/1	0.88	0.14	73,73,73,73	0
84	MG	1	3923	1/1	0.88	0.07	72,72,72,72	0
84	MG	d1	102	1/1	0.88	0.17	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3940	1/1	0.88	0.15	71,71,71,71	0
84	MG	5	3730	1/1	0.88	0.35	74,74,74,74	0
84	MG	6	1995	1/1	0.88	0.09	117,117,117,117	0
84	MG	6	1996	1/1	0.88	0.18	74,74,74,74	0
84	MG	5	3956	1/1	0.88	0.17	55,55,55,55	0
84	MG	5	3958	1/1	0.88	0.10	66,66,66,66	0
84	MG	2	1974	1/1	0.88	0.17	96,96,96,96	0
84	MG	5	3736	1/1	0.88	0.07	59,59,59,59	0
84	MG	6	2019	1/1	0.88	0.23	81,81,81,81	0
84	MG	1	3499	1/1	0.88	0.16	61,61,61,61	0
84	MG	3	204	1/1	0.88	0.20	85,85,85,85	0
84	MG	1	3636	1/1	0.88	0.16	104,104,104,104	0
84	MG	1	3450	1/1	0.88	0.13	62,62,62,62	0
84	MG	6	2029	1/1	0.88	0.16	75,75,75,75	0
84	MG	5	3766	1/1	0.88	0.13	57,57,57,57	0
84	MG	5	3972	1/1	0.88	0.08	60,60,60,60	0
85	LLL	5	4178	31/31	0.88	0.23	69,69,69,69	31
84	MG	3	209	1/1	0.88	0.09	70,70,70,70	0
85	LLL	6	2172	31/31	0.88	0.19	103,104,104,104	0
85	LLL	6	2175	31/31	0.88	0.21	66,66,66,66	31
84	MG	5	3593	1/1	0.88	0.11	68,68,68,68	0
84	MG	8	218	1/1	0.88	0.16	84,84,84,84	0
84	MG	6	2049	1/1	0.89	0.10	78,78,78,78	0
84	MG	5	3584	1/1	0.89	0.21	51,51,51,51	0
84	MG	5	3588	1/1	0.89	0.15	62,62,62,62	0
84	MG	1	3638	1/1	0.89	0.17	90,90,90,90	0
84	MG	6	2055	1/1	0.89	0.14	77,77,77,77	0
84	MG	1	3740	1/1	0.89	0.15	74,74,74,74	0
84	MG	m5	301	1/1	0.89	0.19	62,62,62,62	0
84	MG	m5	302	1/1	0.89	0.11	71,71,71,71	0
84	MG	5	3723	1/1	0.89	0.16	74,74,74,74	0
84	MG	6	2068	1/1	0.89	0.06	83,83,83,83	0
84	MG	1	3577	1/1	0.89	0.18	81,81,81,81	0
84	MG	6	2072	1/1	0.89	0.12	77,77,77,77	0
84	MG	1	3667	1/1	0.89	0.09	73,73,73,73	0
84	MG	1	3505	1/1	0.89	0.15	67,67,67,67	0
84	MG	1	3871	1/1	0.89	0.10	73,73,73,73	0
84	MG	n0	207	1/1	0.89	0.11	56,56,56,56	0
84	MG	3	217	1/1	0.89	0.18	100,100,100,100	0
84	MG	5	3420	1/1	0.89	0.12	50,50,50,50	0
84	MG	2	1906	1/1	0.89	0.18	86,86,86,86	0
84	MG	5	4079	1/1	0.89	0.17	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	n8	202	1/1	0.89	0.25	73,73,73,73	0
84	MG	5	3604	1/1	0.89	0.14	78,78,78,78	0
84	MG	1	3914	1/1	0.89	0.11	59,59,59,59	0
84	MG	5	3900	1/1	0.89	0.12	51,51,51,51	0
84	MG	5	3904	1/1	0.89	0.14	59,59,59,59	0
84	MG	1	3456	1/1	0.89	0.12	67,67,67,67	0
84	MG	5	3761	1/1	0.89	0.19	69,69,69,69	0
84	MG	q3	502	1/1	0.89	0.22	68,68,68,68	0
84	MG	5	3763	1/1	0.89	0.16	78,78,78,78	0
84	MG	6	1901	1/1	0.89	0.12	55,55,55,55	0
84	MG	5	4098	1/1	0.89	0.17	81,81,81,81	0
84	MG	6	1906	1/1	0.89	0.16	76,76,76,76	0
84	MG	5	3764	1/1	0.89	0.11	78,78,78,78	0
84	MG	5	4103	1/1	0.89	0.12	50,50,50,50	0
84	MG	6	1915	1/1	0.89	0.04	74,74,74,74	0
84	MG	5	3765	1/1	0.89	0.10	64,64,64,64	0
84	MG	5	3441	1/1	0.89	0.09	72,72,72,72	0
84	MG	2	1910	1/1	0.89	0.09	80,80,80,80	0
84	MG	1	3628	1/1	0.89	0.18	80,80,80,80	0
84	MG	1	3550	1/1	0.89	0.08	69,69,69,69	0
84	MG	1	3787	1/1	0.89	0.17	67,67,67,67	0
84	MG	2	1914	1/1	0.89	0.10	83,83,83,83	0
84	MG	5	4122	1/1	0.89	0.15	89,89,89,89	0
84	MG	5	3780	1/1	0.89	0.07	64,64,64,64	0
84	MG	6	1937	1/1	0.89	0.20	62,62,62,62	0
84	MG	1	3476	1/1	0.89	0.10	54,54,54,54	0
84	MG	1	3827	1/1	0.89	0.17	61,61,61,61	0
84	MG	2	2018	1/1	0.89	0.15	135,135,135,135	0
84	MG	1	3791	1/1	0.89	0.10	83,83,83,83	0
84	MG	4	218	1/1	0.89	0.13	60,60,60,60	0
84	MG	1	3967	1/1	0.89	0.19	72,72,72,72	0
84	MG	5	3495	1/1	0.89	0.18	58,58,58,58	0
84	MG	5	4146	1/1	0.89	0.10	63,63,63,63	0
84	MG	1	3968	1/1	0.89	0.07	74,74,74,74	0
84	MG	1	3692	1/1	0.89	0.11	64,64,64,64	0
84	MG	5	3973	1/1	0.89	0.14	69,69,69,69	0
84	MG	6	1964	1/1	0.89	0.19	73,73,73,73	0
84	MG	6	2152	1/1	0.89	0.26	68,68,68,68	0
84	MG	1	3887	1/1	0.89	0.09	55,55,55,55	0
84	MG	5	3981	1/1	0.89	0.19	46,46,46,46	0
84	MG	2	1932	1/1	0.89	0.20	91,91,91,91	0
84	MG	7	219	1/1	0.89	0.09	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	7	220	1/1	0.89	0.11	66,66,66,66	0
84	MG	2	1981	1/1	0.89	0.08	58,58,58,58	0
84	MG	6	1981	1/1	0.89	0.12	97,97,97,97	0
84	MG	1	3418	1/1	0.89	0.13	65,65,65,65	0
84	MG	7	226	1/1	0.89	0.09	72,72,72,72	0
84	MG	5	3667	1/1	0.89	0.23	49,49,49,49	0
84	MG	5	3671	1/1	0.89	0.18	63,63,63,63	0
84	MG	5	3684	1/1	0.89	0.11	79,79,79,79	0
84	MG	2	1935	1/1	0.89	0.10	66,66,66,66	0
84	MG	6	1988	1/1	0.89	0.17	66,66,66,66	0
84	MG	1	3932	1/1	0.89	0.10	71,71,71,71	0
84	MG	5	4018	1/1	0.89	0.19	66,66,66,66	0
84	MG	c8	203	1/1	0.89	0.12	74,74,74,74	0
84	MG	1	3933	1/1	0.89	0.20	84,84,84,84	0
84	MG	8	206	1/1	0.89	0.16	81,81,81,81	0
84	MG	1	3984	1/1	0.89	0.09	65,65,65,65	0
84	MG	5	4021	1/1	0.89	0.09	60,60,60,60	0
84	MG	5	4023	1/1	0.89	0.11	58,58,58,58	1
84	MG	6	1999	1/1	0.89	0.18	87,87,87,87	0
84	MG	5	3856	1/1	0.89	0.14	61,61,61,61	0
84	MG	1	3892	1/1	0.89	0.20	64,64,64,64	0
84	MG	6	2010	1/1	0.89	0.08	68,68,68,68	0
85	LLL	1	3996	31/31	0.89	0.18	107,107,108,108	31
84	MG	5	3554	1/1	0.89	0.10	60,60,60,60	0
84	MG	1	3501	1/1	0.89	0.07	64,64,64,64	0
84	MG	6	2021	1/1	0.89	0.12	86,86,86,86	0
84	MG	l2	303	1/1	0.89	0.10	72,72,72,72	0
84	MG	l3	405	1/1	0.89	0.15	43,43,43,43	0
84	MG	5	3697	1/1	0.89	0.16	65,65,65,65	0
84	MG	5	4037	1/1	0.89	0.10	77,77,77,77	0
84	MG	1	3592	1/1	0.89	0.20	62,62,62,62	1
84	MG	1	3804	1/1	0.89	0.17	91,91,91,91	0
84	MG	5	4041	1/1	0.89	0.09	79,79,79,79	0
85	LLL	7	231	31/31	0.89	0.14	81,82,82,82	31
85	LLL	7	232	31/31	0.89	0.23	81,81,81,81	31
84	MG	M7	202	1/1	0.89	0.24	48,48,48,48	0
85	LLL	8	222	31/31	0.89	0.15	102,102,102,102	31
84	MG	l6	202	1/1	0.89	0.14	66,66,66,66	0
85	LLL	6	2173	31/31	0.89	0.18	102,102,103,103	31
84	MG	N0	203	1/1	0.89	0.09	80,80,80,80	0
84	MG	2	1949	1/1	0.89	0.12	102,102,102,102	0
84	MG	5	3577	1/1	0.89	0.17	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	2	2015	1/1	0.90	0.29	84,84,84,84	0
84	MG	m6	203	1/1	0.90	0.06	55,55,55,55	0
84	MG	M5	301	1/1	0.90	0.12	69,69,69,69	0
84	MG	m7	206	1/1	0.90	0.19	55,55,55,55	0
84	MG	5	3535	1/1	0.90	0.33	57,57,57,57	0
84	MG	5	3536	1/1	0.90	0.24	56,56,56,56	0
84	MG	6	2064	1/1	0.90	0.06	126,126,126,126	0
84	MG	1	3785	1/1	0.90	0.08	73,73,73,73	0
84	MG	5	3875	1/1	0.90	0.27	80,80,80,80	0
84	MG	1	3846	1/1	0.90	0.12	53,53,53,53	0
84	MG	1	3621	1/1	0.90	0.13	68,68,68,68	0
84	MG	5	3551	1/1	0.90	0.17	56,56,56,56	0
84	MG	1	3981	1/1	0.90	0.17	63,63,63,63	0
84	MG	5	4077	1/1	0.90	0.07	70,70,70,70	0
84	MG	1	3737	1/1	0.90	0.13	73,73,73,73	0
84	MG	5	3556	1/1	0.90	0.16	57,57,57,57	0
84	MG	1	3523	1/1	0.90	0.11	70,70,70,70	0
84	MG	5	3713	1/1	0.90	0.22	78,78,78,78	0
84	MG	O4	502	1/1	0.90	0.16	106,106,106,106	0
84	MG	1	3920	1/1	0.90	0.19	53,53,53,53	0
84	MG	q2	507	1/1	0.90	0.04	51,51,51,51	0
84	MG	O6	201	1/1	0.90	0.11	78,78,78,78	0
84	MG	5	4092	1/1	0.90	0.11	71,71,71,71	0
84	MG	6	2097	1/1	0.90	0.21	63,63,63,63	0
84	MG	O7	102	1/1	0.90	0.09	61,61,61,61	0
84	MG	2	1968	1/1	0.90	0.15	95,95,95,95	0
84	MG	6	2100	1/1	0.90	0.16	84,84,84,84	0
84	MG	1	3859	1/1	0.90	0.09	67,67,67,67	0
84	MG	6	1911	1/1	0.90	0.09	71,71,71,71	0
84	MG	5	3581	1/1	0.90	0.12	53,53,53,53	0
84	MG	O7	104	1/1	0.90	0.10	88,88,88,88	0
84	MG	1	3687	1/1	0.90	0.19	51,51,51,51	0
84	MG	5	3926	1/1	0.90	0.23	55,55,55,55	1
84	MG	1	3691	1/1	0.90	0.13	59,59,59,59	0
84	MG	5	3740	1/1	0.90	0.15	56,56,56,56	0
84	MG	6	1927	1/1	0.90	0.10	78,78,78,78	0
84	MG	5	3744	1/1	0.90	0.17	65,65,65,65	0
84	MG	1	3486	1/1	0.90	0.10	62,62,62,62	0
84	MG	5	3752	1/1	0.90	0.10	59,59,59,59	0
84	MG	6	2122	1/1	0.90	0.11	96,96,96,96	0
84	MG	5	3592	1/1	0.90	0.15	57,57,57,57	0
84	MG	1	3502	1/1	0.90	0.27	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3586	1/1	0.90	0.15	58,58,58,58	0
84	MG	5	3946	1/1	0.90	0.11	64,64,64,64	0
84	MG	6	1938	1/1	0.90	0.08	59,59,59,59	0
84	MG	5	3954	1/1	0.90	0.14	58,58,58,58	0
84	MG	1	3874	1/1	0.90	0.07	66,66,66,66	0
84	MG	1	3697	1/1	0.90	0.20	56,56,56,56	0
84	MG	S1	301	1/1	0.90	0.11	94,94,94,94	0
84	MG	5	3598	1/1	0.90	0.21	84,84,84,84	0
84	MG	5	3767	1/1	0.90	0.07	60,60,60,60	0
84	MG	6	2139	1/1	0.90	0.17	82,82,82,82	0
84	MG	6	1950	1/1	0.90	0.10	72,72,72,72	0
84	MG	1	3402	1/1	0.90	0.10	60,60,60,60	0
84	MG	1	3468	1/1	0.90	0.09	61,61,61,61	0
84	MG	7	205	1/1	0.90	0.15	55,55,55,55	0
84	MG	1	3750	1/1	0.90	0.16	70,70,70,70	0
84	MG	1	3602	1/1	0.90	0.16	49,49,49,49	0
84	MG	5	3607	1/1	0.90	0.18	83,83,83,83	0
84	MG	6	1968	1/1	0.90	0.12	65,65,65,65	0
84	MG	D3	203	1/1	0.90	0.25	85,85,85,85	0
84	MG	2	1916	1/1	0.90	0.13	90,90,90,90	0
84	MG	5	3975	1/1	0.90	0.20	71,71,71,71	0
84	MG	1	3941	1/1	0.90	0.13	66,66,66,66	0
84	MG	7	225	1/1	0.90	0.13	71,71,71,71	0
84	MG	1	3447	1/1	0.90	0.12	58,58,58,58	0
84	MG	5	3990	1/1	0.90	0.09	47,47,47,47	0
84	MG	1	3548	1/1	0.90	0.25	70,70,70,70	0
84	MG	1	3455	1/1	0.90	0.13	70,70,70,70	0
84	MG	5	4002	1/1	0.90	0.10	64,64,64,64	0
84	MG	1	3890	1/1	0.90	0.09	50,50,50,50	0
84	MG	1	3713	1/1	0.90	0.10	81,81,81,81	0
84	MG	1	3465	1/1	0.90	0.13	56,56,56,56	0
84	MG	1	3896	1/1	0.90	0.08	73,73,73,73	0
84	MG	5	4012	1/1	0.90	0.18	61,61,61,61	0
84	MG	1	3897	1/1	0.90	0.17	104,104,104,104	0
84	MG	1	3485	1/1	0.90	0.13	70,70,70,70	0
84	MG	8	211	1/1	0.90	0.13	63,63,63,63	0
84	MG	5	3819	1/1	0.90	0.14	57,57,57,57	0
84	MG	1	3723	1/1	0.90	0.09	47,47,47,47	0
84	MG	L4	401	1/1	0.90	0.31	69,69,69,69	0
84	MG	d3	205	1/1	0.90	0.16	98,98,98,98	0
84	MG	L4	404	1/1	0.90	0.13	59,59,59,59	0
84	MG	6	2003	1/1	0.90	0.19	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2006	1/1	0.90	0.16	63,63,63,63	0
84	MG	1	3774	1/1	0.90	0.08	61,61,61,61	0
84	MG	l3	403	1/1	0.90	0.09	43,43,43,43	0
84	MG	5	3649	1/1	0.90	0.08	63,63,63,63	1
84	MG	5	4029	1/1	0.90	0.16	52,52,52,52	0
84	MG	6	2018	1/1	0.90	0.13	81,81,81,81	0
84	MG	1	3833	1/1	0.90	0.36	64,64,64,64	0
84	MG	6	2020	1/1	0.90	0.11	85,85,85,85	0
84	MG	5	4032	1/1	0.90	0.07	69,69,69,69	1
84	MG	1	3728	1/1	0.90	0.10	83,83,83,83	0
84	MG	6	2023	1/1	0.90	0.07	79,79,79,79	0
84	MG	5	3842	1/1	0.90	0.13	46,46,46,46	0
84	MG	l5	304	1/1	0.90	0.07	80,80,80,80	0
84	MG	5	3654	1/1	0.90	0.09	79,79,79,79	0
85	LLL	5	4176	31/31	0.90	0.24	74,74,74,74	31
84	MG	M0	301	1/1	0.90	0.18	51,51,51,51	0
84	MG	2	1943	1/1	0.90	0.20	95,95,95,95	0
84	MG	1	3677	1/1	0.90	0.10	66,66,66,66	0
84	MG	2	1946	1/1	0.90	0.14	80,80,80,80	0
84	MG	5	4046	1/1	0.90	0.15	67,67,67,67	0
84	MG	M0	303	1/1	0.90	0.15	66,66,66,66	0
84	MG	1	3678	1/1	0.90	0.23	69,69,69,69	0
85	LLL	6	2174	31/31	0.90	0.28	81,81,81,81	31
84	MG	M3	203	1/1	0.90	0.07	92,92,92,92	0
84	MG	1	3909	1/1	0.90	0.20	73,73,73,73	0
84	MG	1	3552	1/1	0.90	0.12	84,84,84,84	0
84	MG	o4	503	1/1	0.91	0.08	94,94,94,94	0
84	MG	5	3817	1/1	0.91	0.17	41,41,41,41	0
84	MG	6	2067	1/1	0.91	0.14	92,92,92,92	0
84	MG	5	4117	1/1	0.91	0.07	82,82,82,82	0
84	MG	2	1924	1/1	0.91	0.09	90,90,90,90	0
84	MG	5	3823	1/1	0.91	0.10	57,57,57,57	1
84	MG	1	3503	1/1	0.91	0.17	61,61,61,61	0
84	MG	2	1927	1/1	0.91	0.21	95,95,95,95	0
84	MG	5	3971	1/1	0.91	0.08	72,72,72,72	0
84	MG	q3	504	1/1	0.91	0.13	74,74,74,74	0
84	MG	6	2084	1/1	0.91	0.20	67,67,67,67	0
84	MG	5	3834	1/1	0.91	0.13	60,60,60,60	0
84	MG	1	3882	1/1	0.91	0.17	71,71,71,71	0
84	MG	5	3442	1/1	0.91	0.17	53,53,53,53	0
84	MG	3	210	1/1	0.91	0.14	65,65,65,65	0
84	MG	1	3464	1/1	0.91	0.13	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3983	1/1	0.91	0.07	50,50,50,50	0
84	MG	5	4135	1/1	0.91	0.08	77,77,77,77	0
84	MG	6	1916	1/1	0.91	0.20	94,94,94,94	0
84	MG	5	4139	1/1	0.91	0.09	66,66,66,66	0
84	MG	1	3534	1/1	0.91	0.17	63,63,63,63	0
84	MG	5	3461	1/1	0.91	0.09	50,50,50,50	0
84	MG	5	3471	1/1	0.91	0.13	56,56,56,56	0
84	MG	5	4147	1/1	0.91	0.05	61,61,61,61	0
84	MG	5	3853	1/1	0.91	0.08	58,58,58,58	0
84	MG	5	3854	1/1	0.91	0.07	60,60,60,60	0
84	MG	6	2104	1/1	0.91	0.07	89,89,89,89	0
84	MG	1	3886	1/1	0.91	0.10	83,83,83,83	0
84	MG	N0	201	1/1	0.91	0.19	67,67,67,67	0
84	MG	2	1934	1/1	0.91	0.21	87,87,87,87	0
84	MG	1	3482	1/1	0.91	0.18	72,72,72,72	0
84	MG	1	3665	1/1	0.91	0.11	67,67,67,67	0
84	MG	6	2116	1/1	0.91	0.12	71,71,71,71	0
84	MG	1	3469	1/1	0.91	0.08	59,59,59,59	1
84	MG	4	208	1/1	0.91	0.15	60,60,60,60	0
84	MG	1	3496	1/1	0.91	0.15	73,73,73,73	0
84	MG	5	3864	1/1	0.91	0.07	68,68,68,68	0
84	MG	6	1944	1/1	0.91	0.29	71,71,71,71	0
84	MG	7	224	1/1	0.91	0.09	71,71,71,71	0
84	MG	6	1947	1/1	0.91	0.10	64,64,64,64	0
84	MG	5	3865	1/1	0.91	0.13	56,56,56,56	0
84	MG	5	3729	1/1	0.91	0.11	57,57,57,57	0
84	MG	1	3965	1/1	0.91	0.12	67,67,67,67	1
84	MG	5	3498	1/1	0.91	0.09	52,52,52,52	0
84	MG	5	3509	1/1	0.91	0.17	65,65,65,65	0
84	MG	1	3702	1/1	0.91	0.14	64,64,64,64	0
84	MG	1	3854	1/1	0.91	0.09	60,60,60,60	0
84	MG	6	1963	1/1	0.91	0.20	68,68,68,68	0
84	MG	6	2136	1/1	0.91	0.11	85,85,85,85	0
84	MG	1	3971	1/1	0.91	0.13	56,56,56,56	0
84	MG	5	3746	1/1	0.91	0.15	40,40,40,40	0
84	MG	1	3512	1/1	0.91	0.20	66,66,66,66	0
84	MG	2	1945	1/1	0.91	0.15	87,87,87,87	0
84	MG	1	3672	1/1	0.91	0.10	52,52,52,52	0
84	MG	5	3885	1/1	0.91	0.10	65,65,65,65	0
84	MG	5	3754	1/1	0.91	0.07	69,69,69,69	0
84	MG	5	3530	1/1	0.91	0.16	47,47,47,47	1
84	MG	8	216	1/1	0.91	0.08	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3760	1/1	0.91	0.14	59,59,59,59	0
84	MG	1	3779	1/1	0.91	0.12	58,58,58,58	0
84	MG	5	4050	1/1	0.91	0.16	80,80,80,80	0
84	MG	2	1904	1/1	0.91	0.09	91,91,91,91	0
84	MG	5	4052	1/1	0.91	0.14	77,77,77,77	0
84	MG	2	1905	1/1	0.91	0.07	127,127,127,127	0
84	MG	5	3628	1/1	0.91	0.10	60,60,60,60	0
84	MG	1	3425	1/1	0.91	0.12	57,57,57,57	0
84	MG	1	3901	1/1	0.91	0.14	74,74,74,74	0
84	MG	l3	410	1/1	0.91	0.08	73,73,73,73	0
84	MG	5	3546	1/1	0.91	0.07	63,63,63,63	0
84	MG	5	4061	1/1	0.91	0.14	68,68,68,68	0
84	MG	1	3649	1/1	0.91	0.12	61,61,61,61	0
84	MG	6	1997	1/1	0.91	0.22	78,78,78,78	0
84	MG	5	4065	1/1	0.91	0.10	58,58,58,58	0
84	MG	5	4067	1/1	0.91	0.13	76,76,76,76	0
84	MG	1	3821	1/1	0.91	0.32	68,68,68,68	0
84	MG	6	2005	1/1	0.91	0.12	83,83,83,83	0
84	MG	c4	201	1/1	0.91	0.07	87,87,87,87	0
84	MG	c8	202	1/1	0.91	0.10	75,75,75,75	0
84	MG	1	3593	1/1	0.91	0.11	63,63,63,63	0
84	MG	5	3924	1/1	0.91	0.10	56,56,56,56	0
84	MG	1	3945	1/1	0.91	0.08	54,54,54,54	0
84	MG	m0	302	1/1	0.91	0.20	53,53,53,53	0
84	MG	5	3659	1/1	0.91	0.08	98,98,98,98	0
84	MG	L7	301	1/1	0.91	0.10	58,58,58,58	0
84	MG	5	3563	1/1	0.91	0.11	55,55,55,55	0
84	MG	m4	203	1/1	0.91	0.09	59,59,59,59	0
84	MG	m4	206	1/1	0.91	0.11	58,58,58,58	0
84	MG	1	3988	1/1	0.91	0.10	53,53,53,53	0
84	MG	5	3791	1/1	0.91	0.26	54,54,54,54	0
84	MG	5	3792	1/1	0.91	0.15	63,63,63,63	1
84	MG	1	3409	1/1	0.91	0.14	49,49,49,49	0
84	MG	m7	202	1/1	0.91	0.12	49,49,49,49	0
85	LLL	1	4000	31/31	0.91	0.20	84,85,85,85	31
84	MG	1	3717	1/1	0.91	0.25	56,56,56,56	0
84	MG	m7	204	1/1	0.91	0.11	62,62,62,62	0
85	LLL	1	4004	31/31	0.91	0.15	100,101,101,101	31
85	LLL	3	220	31/31	0.91	0.14	98,98,99,99	0
84	MG	5	3687	1/1	0.91	0.17	69,69,69,69	0
85	LLL	2	2044	31/31	0.91	0.15	116,116,116,116	0
84	MG	m7	207	1/1	0.91	0.13	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	LLL	5	4152	31/31	0.91	0.13	79,79,79,79	31
85	LLL	5	4155	31/31	0.91	0.18	81,81,82,82	0
85	LLL	5	4156	31/31	0.91	0.16	83,84,84,84	31
84	MG	5	3953	1/1	0.91	0.19	62,62,62,62	0
84	MG	6	2038	1/1	0.91	0.18	85,85,85,85	0
85	LLL	5	4166	31/31	0.91	0.17	77,78,78,78	31
85	LLL	5	4167	31/31	0.91	0.11	125,126,126,126	0
85	LLL	5	4171	31/31	0.91	0.14	107,107,107,107	0
85	LLL	5	4172	31/31	0.91	0.12	77,77,77,77	31
84	MG	5	3567	1/1	0.91	0.12	62,62,62,62	0
84	MG	1	3575	1/1	0.91	0.16	61,61,61,61	0
84	MG	5	3569	1/1	0.91	0.31	64,64,64,64	0
84	MG	6	2048	1/1	0.91	0.21	68,68,68,68	0
84	MG	5	4100	1/1	0.91	0.18	90,90,90,90	0
84	MG	5	3959	1/1	0.91	0.23	51,51,51,51	0
85	LLL	8	221	31/31	0.91	0.12	100,100,100,100	31
84	MG	5	3960	1/1	0.91	0.19	74,74,74,74	0
85	LLL	6	2165	31/31	0.91	0.14	76,77,77,77	31
85	LLL	6	2167	31/31	0.91	0.12	97,98,98,98	0
84	MG	1	3477	1/1	0.91	0.13	51,51,51,51	0
84	MG	5	4110	1/1	0.91	0.14	47,47,47,47	0
84	MG	5	4112	1/1	0.91	0.13	52,52,52,52	0
84	MG	o3	202	1/1	0.91	0.18	70,70,70,70	0
84	MG	6	2062	1/1	0.91	0.07	111,111,111,111	0
84	MG	5	3424	1/1	0.91	0.08	54,54,54,54	0
84	MG	1	3973	1/1	0.92	0.08	64,64,64,64	0
84	MG	5	3913	1/1	0.92	0.11	57,57,57,57	0
84	MG	5	3915	1/1	0.92	0.08	78,78,78,78	0
84	MG	1	3894	1/1	0.92	0.14	60,60,60,60	0
84	MG	O4	504	1/1	0.92	0.18	76,76,76,76	0
84	MG	7	209	1/1	0.92	0.09	64,64,64,64	0
84	MG	5	3699	1/1	0.92	0.10	63,63,63,63	0
84	MG	6	2014	1/1	0.92	0.06	74,74,74,74	0
84	MG	1	3674	1/1	0.92	0.25	63,63,63,63	0
84	MG	1	3808	1/1	0.92	0.10	71,71,71,71	0
84	MG	1	3675	1/1	0.92	0.07	62,62,62,62	0
84	MG	1	3483	1/1	0.92	0.13	68,68,68,68	0
84	MG	7	221	1/1	0.92	0.07	75,75,75,75	0
84	MG	5	3930	1/1	0.92	0.29	45,45,45,45	0
84	MG	1	3630	1/1	0.92	0.08	106,106,106,106	0
84	MG	5	3500	1/1	0.92	0.14	51,51,51,51	0
84	MG	5	3504	1/1	0.92	0.22	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2028	1/1	0.92	0.07	99,99,99,99	0
84	MG	5	3505	1/1	0.92	0.12	50,50,50,50	0
84	MG	1	3632	1/1	0.92	0.07	72,72,72,72	0
84	MG	5	3944	1/1	0.92	0.10	61,61,61,61	0
84	MG	1	3633	1/1	0.92	0.16	79,79,79,79	0
84	MG	6	2036	1/1	0.92	0.13	83,83,83,83	0
84	MG	1	3472	1/1	0.92	0.20	57,57,57,57	0
84	MG	5	3949	1/1	0.92	0.16	56,56,56,56	0
84	MG	5	3951	1/1	0.92	0.14	68,68,68,68	0
84	MG	6	2040	1/1	0.92	0.11	78,78,78,78	0
84	MG	1	3820	1/1	0.92	0.20	76,76,76,76	0
84	MG	2	1994	1/1	0.92	0.10	109,109,109,109	0
84	MG	6	2043	1/1	0.92	0.17	96,96,96,96	0
84	MG	1	3588	1/1	0.92	0.22	58,58,58,58	0
84	MG	1	3906	1/1	0.92	0.10	67,67,67,67	0
84	MG	1	3907	1/1	0.92	0.07	62,62,62,62	0
84	MG	1	3589	1/1	0.92	0.09	55,55,55,55	0
84	MG	5	3734	1/1	0.92	0.13	67,67,67,67	0
84	MG	1	3431	1/1	0.92	0.15	56,56,56,56	0
84	MG	3	208	1/1	0.92	0.15	64,64,64,64	0
84	MG	1	3489	1/1	0.92	0.07	79,79,79,79	0
84	MG	5	3743	1/1	0.92	0.16	61,61,61,61	0
84	MG	5	3967	1/1	0.92	0.09	71,71,71,71	0
84	MG	1	3828	1/1	0.92	0.11	67,67,67,67	0
84	MG	5	3745	1/1	0.92	0.16	52,52,52,52	0
84	MG	1	3830	1/1	0.92	0.07	72,72,72,72	0
84	MG	2	1917	1/1	0.92	0.14	88,88,88,88	0
84	MG	5	3751	1/1	0.92	0.10	61,61,61,61	0
84	MG	2	1918	1/1	0.92	0.13	91,91,91,91	0
84	MG	6	2073	1/1	0.92	0.13	80,80,80,80	0
84	MG	1	3598	1/1	0.92	0.18	52,52,52,52	0
84	MG	6	2077	1/1	0.92	0.10	65,65,65,65	0
84	MG	6	2078	1/1	0.92	0.11	65,65,65,65	0
84	MG	5	3976	1/1	0.92	0.08	68,68,68,68	0
84	MG	2	1920	1/1	0.92	0.19	88,88,88,88	0
84	MG	2	1922	1/1	0.92	0.20	84,84,84,84	0
84	MG	5	3759	1/1	0.92	0.11	67,67,67,67	0
84	MG	5	3985	1/1	0.92	0.07	56,56,56,56	0
84	MG	5	3557	1/1	0.92	0.08	62,62,62,62	1
84	MG	5	3561	1/1	0.92	0.17	57,57,57,57	0
84	MG	19	205	1/1	0.92	0.09	72,72,72,72	0
84	MG	5	3992	1/1	0.92	0.16	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2092	1/1	0.92	0.08	66,66,66,66	0
84	MG	5	3562	1/1	0.92	0.21	57,57,57,57	0
84	MG	5	4001	1/1	0.92	0.10	59,59,59,59	0
84	MG	1	3564	1/1	0.92	0.27	71,71,71,71	0
84	MG	3	218	1/1	0.92	0.15	97,97,97,97	0
84	MG	2	1925	1/1	0.92	0.11	90,90,90,90	0
84	MG	m4	204	1/1	0.92	0.10	57,57,57,57	0
84	MG	m4	205	1/1	0.92	0.09	58,58,58,58	0
84	MG	1	3605	1/1	0.92	0.21	46,46,46,46	0
84	MG	5	3771	1/1	0.92	0.07	77,77,77,77	0
84	MG	4	201	1/1	0.92	0.18	55,55,55,55	0
84	MG	1	3921	1/1	0.92	0.14	72,72,72,72	0
84	MG	m6	202	1/1	0.92	0.08	47,47,47,47	0
84	MG	4	203	1/1	0.92	0.09	61,61,61,61	0
84	MG	4	204	1/1	0.92	0.08	69,69,69,69	0
84	MG	4	205	1/1	0.92	0.18	87,87,87,87	0
84	MG	1	3759	1/1	0.92	0.20	73,73,73,73	0
84	MG	1	3648	1/1	0.92	0.09	57,57,57,57	0
84	MG	5	3786	1/1	0.92	0.21	43,43,43,43	0
84	MG	5	4027	1/1	0.92	0.15	50,50,50,50	0
84	MG	1	3565	1/1	0.92	0.17	71,71,71,71	0
84	MG	1	3766	1/1	0.92	0.20	58,58,58,58	0
84	MG	1	3704	1/1	0.92	0.12	55,55,55,55	0
84	MG	1	3612	1/1	0.92	0.15	55,55,55,55	0
84	MG	1	3770	1/1	0.92	0.16	55,55,55,55	0
84	MG	1	3546	1/1	0.92	0.10	63,63,63,63	0
84	MG	5	3801	1/1	0.92	0.07	61,61,61,61	0
84	MG	2	2030	1/1	0.92	0.06	122,122,122,122	0
84	MG	n8	203	1/1	0.92	0.16	70,70,70,70	0
84	MG	n9	101	1/1	0.92	0.22	49,49,49,49	0
84	MG	1	3708	1/1	0.92	0.12	66,66,66,66	0
84	MG	4	220	1/1	0.92	0.08	71,71,71,71	0
84	MG	1	3569	1/1	0.92	0.13	75,75,75,75	0
84	MG	5	4045	1/1	0.92	0.15	71,71,71,71	0
84	MG	q0	202	1/1	0.92	0.08	51,51,51,51	0
84	MG	6	2138	1/1	0.92	0.11	84,84,84,84	0
84	MG	4	222	1/1	0.92	0.13	79,79,79,79	0
84	MG	5	3809	1/1	0.92	0.08	60,60,60,60	0
84	MG	q2	503	1/1	0.92	0.07	52,52,52,52	0
84	MG	5	3810	1/1	0.92	0.07	59,59,59,59	0
84	MG	q2	505	1/1	0.92	0.18	63,63,63,63	0
84	MG	1	3860	1/1	0.92	0.11	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3862	1/1	0.92	0.12	63,63,63,63	0
84	MG	5	3602	1/1	0.92	0.09	81,81,81,81	0
84	MG	1	3863	1/1	0.92	0.10	74,74,74,74	0
84	MG	5	3824	1/1	0.92	0.15	58,58,58,58	0
84	MG	6	2153	1/1	0.92	0.08	68,68,68,68	0
84	MG	L4	403	1/1	0.92	0.09	55,55,55,55	0
84	MG	1	3777	1/1	0.92	0.10	62,62,62,62	0
84	MG	1	3571	1/1	0.92	0.09	71,71,71,71	0
84	MG	1	3573	1/1	0.92	0.12	65,65,65,65	0
84	MG	1	3949	1/1	0.92	0.09	79,79,79,79	0
84	MG	6	2159	1/1	0.92	0.11	81,81,81,81	0
84	MG	1	3780	1/1	0.92	0.12	64,64,64,64	0
84	MG	6	1914	1/1	0.92	0.06	114,114,114,114	0
84	MG	5	4066	1/1	0.92	0.06	84,84,84,84	0
84	MG	L9	201	1/1	0.92	0.13	59,59,59,59	0
84	MG	s3	301	1/1	0.92	0.08	84,84,84,84	0
84	MG	s4	301	1/1	0.92	0.09	103,103,103,103	0
84	MG	1	3500	1/1	0.92	0.12	68,68,68,68	0
84	MG	s5	302	1/1	0.92	0.26	76,76,76,76	0
84	MG	D3	201	1/1	0.92	0.09	72,72,72,72	0
84	MG	6	1921	1/1	0.92	0.16	76,76,76,76	0
84	MG	5	3844	1/1	0.92	0.08	52,52,52,52	0
84	MG	1	3715	1/1	0.92	0.11	83,83,83,83	0
84	MG	2	1958	1/1	0.92	0.14	108,108,108,108	0
84	MG	c3	205	1/1	0.92	0.18	84,84,84,84	0
84	MG	1	3417	1/1	0.92	0.19	52,52,52,52	0
84	MG	M3	201	1/1	0.92	0.10	65,65,65,65	0
84	MG	5	3405	1/1	0.92	0.20	47,47,47,47	0
84	MG	1	3460	1/1	0.92	0.14	58,58,58,58	0
84	MG	5	4081	1/1	0.92	0.10	79,79,79,79	0
84	MG	1	3466	1/1	0.92	0.14	54,54,54,54	0
84	MG	5	4083	1/1	0.92	0.17	88,88,88,88	0
84	MG	1	3726	1/1	0.92	0.15	69,69,69,69	0
84	MG	5	3641	1/1	0.92	0.14	51,51,51,51	0
84	MG	5	3644	1/1	0.92	0.11	64,64,64,64	0
84	MG	6	1942	1/1	0.92	0.13	60,60,60,60	0
84	MG	5	4088	1/1	0.92	0.09	69,69,69,69	0
84	MG	5	3428	1/1	0.92	0.15	47,47,47,47	0
84	MG	1	3790	1/1	0.92	0.12	78,78,78,78	0
84	MG	5	4096	1/1	0.92	0.10	54,54,54,54	0
84	MG	1	3727	1/1	0.92	0.10	55,55,55,55	0
84	MG	M5	303	1/1	0.92	0.14	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	LLL	1	3999	31/31	0.92	0.21	85,86,86,86	31
84	MG	5	4099	1/1	0.92	0.11	105,105,105,105	0
84	MG	5	3440	1/1	0.92	0.08	56,56,56,56	0
84	MG	6	1958	1/1	0.92	0.15	66,66,66,66	0
84	MG	1	3526	1/1	0.92	0.20	65,65,65,65	0
84	MG	5	4102	1/1	0.92	0.15	47,47,47,47	0
84	MG	5	3657	1/1	0.92	0.17	73,73,73,73	0
84	MG	5	4104	1/1	0.92	0.12	56,56,56,56	0
84	MG	2	1970	1/1	0.92	0.11	105,105,105,105	0
84	MG	1	3729	1/1	0.92	0.17	72,72,72,72	0
85	LLL	5	4153	31/31	0.92	0.15	64,64,65,65	0
84	MG	5	3445	1/1	0.92	0.14	50,50,50,50	0
84	MG	5	3449	1/1	0.92	0.16	50,50,50,50	0
84	MG	5	4115	1/1	0.92	0.10	59,59,59,59	0
84	MG	5	3668	1/1	0.92	0.19	49,49,49,49	0
84	MG	1	3795	1/1	0.92	0.12	56,56,56,56	0
84	MG	5	3672	1/1	0.92	0.17	67,67,67,67	0
85	LLL	5	4169	31/31	0.92	0.17	51,51,51,51	31
84	MG	5	3883	1/1	0.92	0.12	67,67,67,67	0
84	MG	5	3678	1/1	0.92	0.15	68,68,68,68	0
84	MG	5	3683	1/1	0.92	0.15	73,73,73,73	0
85	LLL	5	4175	31/31	0.92	0.23	60,60,60,60	31
84	MG	1	3527	1/1	0.92	0.15	70,70,70,70	0
84	MG	5	3890	1/1	0.92	0.06	62,62,62,62	0
84	MG	5	4127	1/1	0.92	0.13	62,62,62,62	0
84	MG	5	3460	1/1	0.92	0.15	49,49,49,49	0
84	MG	5	3892	1/1	0.92	0.32	68,68,68,68	0
84	MG	1	3529	1/1	0.92	0.12	66,66,66,66	0
84	MG	5	3466	1/1	0.92	0.09	50,50,50,50	0
84	MG	1	3671	1/1	0.92	0.17	55,55,55,55	0
84	MG	1	3504	1/1	0.92	0.13	66,66,66,66	0
85	LLL	6	2168	31/31	0.92	0.14	86,86,86,87	0
85	LLL	6	2171	31/31	0.92	0.11	87,88,88,88	0
84	MG	O3	201	1/1	0.92	0.10	64,64,64,64	0
84	MG	5	4142	1/1	0.92	0.25	69,69,69,69	0
84	MG	5	3899	1/1	0.92	0.11	59,59,59,59	0
84	MG	5	3479	1/1	0.92	0.18	48,48,48,48	0
84	MG	5	3901	1/1	0.92	0.20	55,55,55,55	0
84	MG	6	2001	1/1	0.92	0.24	79,79,79,79	0
84	MG	n3	202	1/1	0.93	0.14	62,62,62,62	1
84	MG	5	3943	1/1	0.93	0.26	75,75,75,75	0
84	MG	6	2066	1/1	0.93	0.12	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3790	1/1	0.93	0.16	47,47,47,47	0
84	MG	1	3700	1/1	0.93	0.23	52,52,52,52	0
84	MG	5	3531	1/1	0.93	0.16	43,43,43,43	0
84	MG	5	3793	1/1	0.93	0.13	68,68,68,68	0
84	MG	1	3822	1/1	0.93	0.09	86,86,86,86	0
84	MG	1	3736	1/1	0.93	0.10	82,82,82,82	0
84	MG	o2	202	1/1	0.93	0.12	55,55,55,55	0
84	MG	5	4106	1/1	0.93	0.10	49,49,49,49	0
84	MG	5	3800	1/1	0.93	0.17	69,69,69,69	0
84	MG	6	2080	1/1	0.93	0.17	62,62,62,62	0
84	MG	5	4109	1/1	0.93	0.19	42,42,42,42	0
84	MG	5	3660	1/1	0.93	0.07	96,96,96,96	0
84	MG	1	3411	1/1	0.93	0.15	53,53,53,53	0
84	MG	5	3537	1/1	0.93	0.14	48,48,48,48	0
84	MG	5	3804	1/1	0.93	0.05	73,73,73,73	1
84	MG	5	3539	1/1	0.93	0.18	54,54,54,54	0
84	MG	5	3806	1/1	0.93	0.16	73,73,73,73	0
84	MG	1	3703	1/1	0.93	0.09	65,65,65,65	0
84	MG	C8	201	1/1	0.93	0.09	138,138,138,138	0
84	MG	5	3544	1/1	0.93	0.08	61,61,61,61	0
84	MG	1	3507	1/1	0.93	0.14	60,60,60,60	0
84	MG	D3	202	1/1	0.93	0.08	67,67,67,67	0
84	MG	5	3550	1/1	0.93	0.13	59,59,59,59	0
84	MG	5	4126	1/1	0.93	0.15	60,60,60,60	0
84	MG	5	3685	1/1	0.93	0.17	66,66,66,66	0
84	MG	6	1907	1/1	0.93	0.16	69,69,69,69	0
84	MG	6	1909	1/1	0.93	0.15	67,67,67,67	0
84	MG	5	3822	1/1	0.93	0.11	60,60,60,60	0
84	MG	1	3943	1/1	0.93	0.16	60,60,60,60	0
84	MG	1	3829	1/1	0.93	0.12	71,71,71,71	0
84	MG	6	2105	1/1	0.93	0.17	67,67,67,67	0
84	MG	M8	201	1/1	0.93	0.09	67,67,67,67	0
84	MG	5	3827	1/1	0.93	0.09	51,51,51,51	1
84	MG	6	2109	1/1	0.93	0.08	91,91,91,91	0
84	MG	5	3828	1/1	0.93	0.17	46,46,46,46	0
84	MG	3	216	1/1	0.93	0.08	74,74,74,74	0
84	MG	6	2113	1/1	0.93	0.10	67,67,67,67	0
84	MG	5	4141	1/1	0.93	0.21	62,62,62,62	0
84	MG	6	2115	1/1	0.93	0.09	93,93,93,93	0
84	MG	5	3831	1/1	0.93	0.12	44,44,44,44	0
84	MG	5	3832	1/1	0.93	0.10	50,50,50,50	0
84	MG	5	3692	1/1	0.93	0.08	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3414	1/1	0.93	0.10	56,56,56,56	0
84	MG	5	3415	1/1	0.93	0.17	48,48,48,48	1
84	MG	6	1932	1/1	0.93	0.08	62,62,62,62	0
84	MG	5	3997	1/1	0.93	0.08	50,50,50,50	0
84	MG	1	3947	1/1	0.93	0.31	79,79,79,79	0
84	MG	N1	202	1/1	0.93	0.10	98,98,98,98	0
84	MG	7	202	1/1	0.93	0.11	52,52,52,52	0
84	MG	6	2127	1/1	0.93	0.21	76,76,76,76	0
84	MG	5	3423	1/1	0.93	0.11	54,54,54,54	1
84	MG	1	3530	1/1	0.93	0.17	67,67,67,67	0
84	MG	1	3642	1/1	0.93	0.12	71,71,71,71	0
84	MG	5	4006	1/1	0.93	0.28	64,64,64,64	0
84	MG	5	3431	1/1	0.93	0.10	53,53,53,53	0
84	MG	7	218	1/1	0.93	0.07	68,68,68,68	0
84	MG	5	3434	1/1	0.93	0.07	60,60,60,60	0
84	MG	N8	201	1/1	0.93	0.18	75,75,75,75	0
84	MG	5	4014	1/1	0.93	0.08	62,62,62,62	0
84	MG	6	1946	1/1	0.93	0.11	70,70,70,70	0
84	MG	6	2140	1/1	0.93	0.15	65,65,65,65	0
84	MG	N8	202	1/1	0.93	0.13	73,73,73,73	0
84	MG	1	3492	1/1	0.93	0.14	80,80,80,80	0
84	MG	5	3710	1/1	0.93	0.20	72,72,72,72	0
84	MG	1	3590	1/1	0.93	0.10	58,58,58,58	0
84	MG	1	3475	1/1	0.93	0.12	60,60,60,60	0
84	MG	6	1953	1/1	0.93	0.08	83,83,83,83	0
84	MG	6	1954	1/1	0.93	0.13	80,80,80,80	0
84	MG	7	227	1/1	0.93	0.21	76,76,76,76	0
84	MG	6	2151	1/1	0.93	0.32	67,67,67,67	0
84	MG	1	3410	1/1	0.93	0.14	56,56,56,56	0
84	MG	5	3586	1/1	0.93	0.09	55,55,55,55	0
84	MG	1	3652	1/1	0.93	0.11	59,59,59,59	0
84	MG	1	3844	1/1	0.93	0.11	56,56,56,56	0
84	MG	1	3594	1/1	0.93	0.08	53,53,53,53	0
84	MG	5	3450	1/1	0.93	0.17	42,42,42,42	0
84	MG	6	1971	1/1	0.93	0.15	73,73,73,73	0
84	MG	6	1972	1/1	0.93	0.22	70,70,70,70	0
84	MG	1	3794	1/1	0.93	0.08	68,68,68,68	0
84	MG	1	3850	1/1	0.93	0.15	57,57,57,57	0
84	MG	5	3871	1/1	0.93	0.12	71,71,71,71	0
84	MG	5	3459	1/1	0.93	0.21	52,52,52,52	1
84	MG	2	1902	1/1	0.93	0.07	95,95,95,95	0
84	MG	6	1979	1/1	0.93	0.09	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3451	1/1	0.93	0.08	69,69,69,69	0
84	MG	8	212	1/1	0.93	0.09	66,66,66,66	0
84	MG	1	3798	1/1	0.93	0.09	60,60,60,60	0
84	MG	8	215	1/1	0.93	0.12	58,58,58,58	0
84	MG	5	3468	1/1	0.93	0.11	55,55,55,55	0
84	MG	5	4044	1/1	0.93	0.20	72,72,72,72	0
84	MG	c3	203	1/1	0.93	0.09	108,108,108,108	0
84	MG	5	3738	1/1	0.93	0.15	50,50,50,50	0
84	MG	5	3600	1/1	0.93	0.10	92,92,92,92	0
84	MG	5	3469	1/1	0.93	0.16	54,54,54,54	0
84	MG	6	1989	1/1	0.93	0.21	67,67,67,67	0
84	MG	5	3882	1/1	0.93	0.13	67,67,67,67	0
84	MG	1	3799	1/1	0.93	0.06	93,93,93,93	0
84	MG	2	1960	1/1	0.93	0.13	94,94,94,94	0
84	MG	1	3858	1/1	0.93	0.15	46,46,46,46	0
84	MG	5	4053	1/1	0.93	0.17	94,94,94,94	0
84	MG	5	4054	1/1	0.93	0.17	97,97,97,97	0
84	MG	1	3720	1/1	0.93	0.17	59,59,59,59	0
84	MG	l5	301	1/1	0.93	0.16	56,56,56,56	0
84	MG	5	3750	1/1	0.93	0.08	52,52,52,52	0
84	MG	l5	303	1/1	0.93	0.06	74,74,74,74	0
84	MG	1	3722	1/1	0.93	0.09	68,68,68,68	0
85	LLL	1	3990	31/31	0.93	0.13	75,75,75,75	0
85	LLL	1	3992	31/31	0.93	0.15	78,79,79,79	31
84	MG	1	3969	1/1	0.93	0.13	72,72,72,72	0
84	MG	1	3760	1/1	0.93	0.18	69,69,69,69	0
84	MG	l7	302	1/1	0.93	0.15	55,55,55,55	0
84	MG	5	3489	1/1	0.93	0.11	55,55,55,55	0
84	MG	5	3612	1/1	0.93	0.09	80,80,80,80	0
84	MG	L2	301	1/1	0.93	0.10	55,55,55,55	0
84	MG	6	2012	1/1	0.93	0.14	61,61,61,61	0
84	MG	1	3536	1/1	0.93	0.11	64,64,64,64	0
85	LLL	1	4003	31/31	0.93	0.17	79,80,80,80	31
84	MG	L3	401	1/1	0.93	0.08	76,76,76,76	0
84	MG	5	4068	1/1	0.93	0.15	112,112,112,112	0
84	MG	1	3604	1/1	0.93	0.11	52,52,52,52	0
85	LLL	L3	404	31/31	0.93	0.10	82,82,82,82	0
84	MG	m3	202	1/1	0.93	0.08	82,82,82,82	0
84	MG	1	3764	1/1	0.93	0.11	69,69,69,69	0
84	MG	1	3868	1/1	0.93	0.08	61,61,61,61	0
84	MG	5	3909	1/1	0.93	0.11	48,48,48,48	1
84	MG	6	2025	1/1	0.93	0.08	81,81,81,81	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3502	1/1	0.93	0.13	50,50,50,50	0
85	LLL	5	4160	31/31	0.93	0.13	49,50,50,50	31
84	MG	5	3914	1/1	0.93	0.06	56,56,56,56	0
84	MG	1	3869	1/1	0.93	0.13	62,62,62,62	0
85	LLL	5	4165	31/31	0.93	0.12	84,84,84,84	0
84	MG	1	3557	1/1	0.93	0.19	71,71,71,71	0
84	MG	1	3541	1/1	0.93	0.07	58,58,58,58	0
85	LLL	5	4168	31/31	0.93	0.11	76,76,76,76	0
84	MG	5	3510	1/1	0.93	0.09	62,62,62,62	0
84	MG	5	3638	1/1	0.93	0.13	51,51,51,51	0
84	MG	1	3696	1/1	0.93	0.19	55,55,55,55	0
84	MG	m6	204	1/1	0.93	0.16	48,48,48,48	0
85	LLL	5	4174	31/31	0.93	0.24	47,47,47,47	31
84	MG	m6	206	1/1	0.93	0.16	51,51,51,51	0
84	MG	m6	207	1/1	0.93	0.08	47,47,47,47	0
85	LLL	5	4177	31/31	0.93	0.23	51,51,51,51	31
84	MG	m6	208	1/1	0.93	0.10	56,56,56,56	0
84	MG	1	3480	1/1	0.93	0.14	62,62,62,62	0
84	MG	5	3779	1/1	0.93	0.14	67,67,67,67	0
84	MG	1	3582	1/1	0.93	0.09	65,65,65,65	0
84	MG	1	3524	1/1	0.93	0.07	71,71,71,71	0
84	MG	5	3785	1/1	0.93	0.09	51,51,51,51	0
85	LLL	l3	412	31/31	0.93	0.10	69,69,70,70	0
85	LLL	6	2164	31/31	0.93	0.14	73,74,74,74	0
84	MG	m8	201	1/1	0.93	0.08	55,55,55,55	0
84	MG	5	4091	1/1	0.93	0.20	68,68,68,68	0
84	MG	m8	204	1/1	0.93	0.09	63,63,63,63	0
85	LLL	6	2170	31/31	0.93	0.12	82,82,83,83	0
84	MG	m9	201	1/1	0.93	0.18	74,74,74,74	0
84	MG	6	2056	1/1	0.93	0.17	83,83,83,83	0
84	MG	1	3877	1/1	0.93	0.07	68,68,68,68	0
84	MG	5	4094	1/1	0.93	0.07	63,63,63,63	0
84	MG	6	2059	1/1	0.93	0.06	76,76,76,76	0
84	MG	1	3734	1/1	0.93	0.07	77,77,77,77	0
84	MG	5	3651	1/1	0.93	0.18	77,77,77,77	0
84	MG	1	3926	1/1	0.94	0.15	54,54,54,54	0
84	MG	6	2095	1/1	0.94	0.23	65,65,65,65	0
84	MG	6	1918	1/1	0.94	0.14	84,84,84,84	0
84	MG	1	3601	1/1	0.94	0.21	53,53,53,53	0
84	MG	7	207	1/1	0.94	0.10	62,62,62,62	0
84	MG	6	1922	1/1	0.94	0.08	74,74,74,74	0
84	MG	1	3769	1/1	0.94	0.09	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	7	212	1/1	0.94	0.20	65,65,65,65	0
84	MG	6	1928	1/1	0.94	0.18	68,68,68,68	0
84	MG	1	3424	1/1	0.94	0.12	61,61,61,61	0
84	MG	1	3603	1/1	0.94	0.11	45,45,45,45	0
84	MG	5	3839	1/1	0.94	0.10	68,68,68,68	0
84	MG	5	4005	1/1	0.94	0.12	58,58,58,58	0
84	MG	M5	302	1/1	0.94	0.10	58,58,58,58	0
84	MG	5	4007	1/1	0.94	0.08	63,63,63,63	0
84	MG	1	3508	1/1	0.94	0.33	60,60,60,60	0
84	MG	1	3775	1/1	0.94	0.10	62,62,62,62	0
84	MG	5	3575	1/1	0.94	0.07	51,51,51,51	0
84	MG	5	4013	1/1	0.94	0.19	58,58,58,58	0
84	MG	5	3576	1/1	0.94	0.06	52,52,52,52	0
84	MG	5	3846	1/1	0.94	0.13	55,55,55,55	0
84	MG	1	3448	1/1	0.94	0.12	68,68,68,68	0
84	MG	5	3579	1/1	0.94	0.16	45,45,45,45	0
84	MG	1	3449	1/1	0.94	0.18	56,56,56,56	0
84	MG	5	3709	1/1	0.94	0.08	75,75,75,75	0
84	MG	1	3701	1/1	0.94	0.07	59,59,59,59	0
84	MG	N0	202	1/1	0.94	0.11	49,49,49,49	0
84	MG	8	203	1/1	0.94	0.11	83,83,83,83	1
84	MG	5	3453	1/1	0.94	0.11	56,56,56,56	0
84	MG	3	213	1/1	0.94	0.10	90,90,90,90	0
84	MG	5	3457	1/1	0.94	0.08	51,51,51,51	0
84	MG	5	3721	1/1	0.94	0.11	65,65,65,65	0
84	MG	2	2009	1/1	0.94	0.08	117,117,117,117	0
84	MG	1	3938	1/1	0.94	0.15	62,62,62,62	0
84	MG	5	4034	1/1	0.94	0.08	68,68,68,68	0
84	MG	1	3474	1/1	0.94	0.12	59,59,59,59	0
84	MG	1	3559	1/1	0.94	0.13	73,73,73,73	0
84	MG	6	2135	1/1	0.94	0.14	77,77,77,77	0
84	MG	8	214	1/1	0.94	0.12	54,54,54,54	0
84	MG	2	1947	1/1	0.94	0.25	92,92,92,92	0
84	MG	6	1966	1/1	0.94	0.09	73,73,73,73	0
84	MG	6	1967	1/1	0.94	0.34	74,74,74,74	0
84	MG	1	3781	1/1	0.94	0.05	69,69,69,69	1
84	MG	6	1969	1/1	0.94	0.06	69,69,69,69	1
84	MG	6	2142	1/1	0.94	0.19	89,89,89,89	0
84	MG	1	3487	1/1	0.94	0.14	79,79,79,79	0
84	MG	1	3946	1/1	0.94	0.16	54,54,54,54	0
84	MG	O2	202	1/1	0.94	0.11	55,55,55,55	0
84	MG	1	3670	1/1	0.94	0.25	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3518	1/1	0.94	0.09	64,64,64,64	0
84	MG	5	3482	1/1	0.94	0.08	46,46,46,46	0
84	MG	5	3739	1/1	0.94	0.14	52,52,52,52	0
84	MG	5	3605	1/1	0.94	0.08	76,76,76,76	0
84	MG	1	3520	1/1	0.94	0.07	69,69,69,69	0
84	MG	2	2022	1/1	0.94	0.10	132,132,132,132	0
84	MG	1	3488	1/1	0.94	0.10	73,73,73,73	0
84	MG	14	1101	1/1	0.94	0.14	65,65,65,65	0
84	MG	5	3488	1/1	0.94	0.14	55,55,55,55	0
84	MG	5	3747	1/1	0.94	0.09	46,46,46,46	0
84	MG	1	3836	1/1	0.94	0.09	58,58,58,58	0
84	MG	1	3838	1/1	0.94	0.16	50,50,50,50	0
84	MG	1	3839	1/1	0.94	0.10	57,57,57,57	0
84	MG	6	2161	1/1	0.94	0.11	75,75,75,75	0
84	MG	1	3644	1/1	0.94	0.23	49,49,49,49	0
84	MG	Q2	503	1/1	0.94	0.11	67,67,67,67	0
84	MG	1	3789	1/1	0.94	0.07	80,80,80,80	0
84	MG	2	1901	1/1	0.94	0.20	92,92,92,92	0
84	MG	5	3756	1/1	0.94	0.14	61,61,61,61	0
84	MG	5	3758	1/1	0.94	0.07	65,65,65,65	0
84	MG	19	206	1/1	0.94	0.11	68,68,68,68	0
84	MG	s5	303	1/1	0.94	0.17	77,77,77,77	0
84	MG	19	207	1/1	0.94	0.09	52,52,52,52	0
84	MG	5	3617	1/1	0.94	0.08	75,75,75,75	0
84	MG	5	4069	1/1	0.94	0.14	110,110,110,110	0
84	MG	4	213	1/1	0.94	0.16	80,80,80,80	0
84	MG	1	3748	1/1	0.94	0.11	61,61,61,61	0
84	MG	5	3907	1/1	0.94	0.27	41,41,41,41	0
84	MG	5	3620	1/1	0.94	0.09	65,65,65,65	0
84	MG	4	216	1/1	0.94	0.07	69,69,69,69	0
84	MG	5	3508	1/1	0.94	0.06	53,53,53,53	0
84	MG	5	3623	1/1	0.94	0.10	62,62,62,62	0
84	MG	1	3522	1/1	0.94	0.15	63,63,63,63	0
84	MG	5	3627	1/1	0.94	0.15	53,53,53,53	1
84	MG	1	3845	1/1	0.94	0.08	53,53,53,53	0
84	MG	5	3922	1/1	0.94	0.10	56,56,56,56	0
84	MG	d3	204	1/1	0.94	0.17	66,66,66,66	0
84	MG	5	3629	1/1	0.94	0.10	60,60,60,60	0
84	MG	1	3428	1/1	0.94	0.10	54,54,54,54	0
84	MG	5	3635	1/1	0.94	0.14	55,55,55,55	0
84	MG	5	3928	1/1	0.94	0.09	46,46,46,46	0
84	MG	1	3591	1/1	0.94	0.21	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3640	1/1	0.94	0.17	41,41,41,41	0
85	LLL	1	3989	31/31	0.94	0.10	69,69,69,69	0
84	MG	5	3932	1/1	0.94	0.10	52,52,52,52	0
84	MG	5	3934	1/1	0.94	0.17	48,48,48,48	1
84	MG	1	3432	1/1	0.94	0.21	46,46,46,46	0
84	MG	5	3781	1/1	0.94	0.05	56,56,56,56	0
84	MG	5	3782	1/1	0.94	0.08	67,67,67,67	0
84	MG	5	3642	1/1	0.94	0.17	52,52,52,52	0
84	MG	6	2032	1/1	0.94	0.08	77,77,77,77	0
84	MG	1	3852	1/1	0.94	0.15	65,65,65,65	0
84	MG	5	3525	1/1	0.94	0.07	51,51,51,51	1
84	MG	1	3756	1/1	0.94	0.11	62,62,62,62	0
84	MG	1	3908	1/1	0.94	0.14	60,60,60,60	0
84	MG	n0	203	1/1	0.94	0.07	49,49,49,49	0
84	MG	1	3796	1/1	0.94	0.06	60,60,60,60	0
84	MG	5	3947	1/1	0.94	0.15	57,57,57,57	0
84	MG	1	3757	1/1	0.94	0.20	62,62,62,62	0
84	MG	n1	202	1/1	0.94	0.07	61,61,61,61	0
84	MG	5	3652	1/1	0.94	0.11	76,76,76,76	0
85	LLL	5	4151	31/31	0.94	0.11	48,48,49,49	0
84	MG	L3	402	1/1	0.94	0.10	60,60,60,60	0
84	MG	5	3794	1/1	0.94	0.13	61,61,61,61	0
84	MG	5	3955	1/1	0.94	0.16	52,52,52,52	0
84	MG	1	3972	1/1	0.94	0.08	65,65,65,65	0
85	LLL	5	4158	31/31	0.94	0.20	60,60,60,60	31
84	MG	5	3957	1/1	0.94	0.16	57,57,57,57	0
85	LLL	5	4161	31/31	0.94	0.08	69,70,70,70	0
84	MG	1	3682	1/1	0.94	0.08	65,65,65,65	0
84	MG	1	3683	1/1	0.94	0.08	64,64,64,64	0
84	MG	1	3651	1/1	0.94	0.12	59,59,59,59	0
84	MG	5	3961	1/1	0.94	0.16	53,53,53,53	0
84	MG	L4	406	1/1	0.94	0.07	48,48,48,48	0
84	MG	1	3443	1/1	0.94	0.06	58,58,58,58	0
84	MG	5	3665	1/1	0.94	0.06	56,56,56,56	0
85	LLL	5	4170	31/31	0.94	0.12	61,61,61,61	31
84	MG	1	3979	1/1	0.94	0.08	69,69,69,69	0
84	MG	1	3690	1/1	0.94	0.18	58,58,58,58	0
84	MG	5	3670	1/1	0.94	0.09	63,63,63,63	0
84	MG	1	3653	1/1	0.94	0.05	59,59,59,59	0
84	MG	1	3765	1/1	0.94	0.12	61,61,61,61	0
84	MG	5	3673	1/1	0.94	0.14	55,55,55,55	0
84	MG	5	3812	1/1	0.94	0.22	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3675	1/1	0.94	0.07	67,67,67,67	0
84	MG	6	2074	1/1	0.94	0.17	64,64,64,64	0
84	MG	5	3676	1/1	0.94	0.06	65,65,65,65	0
84	MG	5	4136	1/1	0.94	0.12	70,70,70,70	0
84	MG	2	1992	1/1	0.94	0.09	98,98,98,98	0
84	MG	5	4140	1/1	0.94	0.17	57,57,57,57	0
84	MG	6	1905	1/1	0.94	0.21	64,64,64,64	0
84	MG	5	3679	1/1	0.94	0.10	66,66,66,66	0
84	MG	5	3977	1/1	0.94	0.07	67,67,67,67	0
84	MG	5	3421	1/1	0.94	0.10	51,51,51,51	0
84	MG	6	1910	1/1	0.94	0.07	60,60,60,60	0
85	LLL	6	2169	31/31	0.94	0.14	89,89,90,90	0
84	MG	6	2086	1/1	0.94	0.11	83,83,83,83	0
84	MG	6	2087	1/1	0.94	0.19	82,82,82,82	0
84	MG	1	3810	1/1	0.94	0.08	70,70,70,70	0
84	MG	1	3438	1/1	0.94	0.18	51,51,51,51	0
84	MG	5	3427	1/1	0.94	0.17	45,45,45,45	0
84	MG	1	3439	1/1	0.94	0.20	49,49,49,49	0
85	LLL	6	2176	31/31	0.94	0.20	80,80,80,80	31
84	MG	5	3429	1/1	0.94	0.16	48,48,48,48	0
84	MG	5	3430	1/1	0.94	0.13	49,49,49,49	0
84	MG	1	3813	1/1	0.95	0.12	80,80,80,80	0
84	MG	1	3745	1/1	0.95	0.10	73,73,73,73	0
84	MG	1	3815	1/1	0.95	0.19	77,77,77,77	0
84	MG	5	3748	1/1	0.95	0.12	46,46,46,46	0
84	MG	6	2106	1/1	0.95	0.20	91,91,91,91	0
84	MG	1	3816	1/1	0.95	0.12	78,78,78,78	0
84	MG	1	3646	1/1	0.95	0.20	52,52,52,52	0
84	MG	5	3404	1/1	0.95	0.07	55,55,55,55	0
84	MG	5	3626	1/1	0.95	0.11	52,52,52,52	0
84	MG	N3	201	1/1	0.95	0.07	67,67,67,67	0
84	MG	6	2112	1/1	0.95	0.06	81,81,81,81	0
84	MG	5	4031	1/1	0.95	0.06	65,65,65,65	0
84	MG	5	3880	1/1	0.95	0.12	73,73,73,73	0
84	MG	5	3881	1/1	0.95	0.22	63,63,63,63	0
84	MG	5	3410	1/1	0.95	0.17	46,46,46,46	0
84	MG	5	3414	1/1	0.95	0.14	54,54,54,54	0
84	MG	5	4036	1/1	0.95	0.09	56,56,56,56	0
84	MG	5	3527	1/1	0.95	0.20	53,53,53,53	0
84	MG	5	4038	1/1	0.95	0.08	79,79,79,79	0
84	MG	8	210	1/1	0.95	0.07	96,96,96,96	0
84	MG	1	3864	1/1	0.95	0.09	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	5	3636	1/1	0.95	0.07	53,53,53,53	0
84	MG	5	3416	1/1	0.95	0.15	45,45,45,45	0
84	MG	1	3538	1/1	0.95	0.08	64,64,64,64	0
84	MG	6	1956	1/1	0.95	0.12	69,69,69,69	0
84	MG	1	3539	1/1	0.95	0.11	52,52,52,52	0
84	MG	1	3783	1/1	0.95	0.15	61,61,61,61	0
84	MG	5	3422	1/1	0.95	0.10	49,49,49,49	0
84	MG	N8	203	1/1	0.95	0.14	63,63,63,63	0
84	MG	5	4048	1/1	0.95	0.13	64,64,64,64	0
84	MG	1	3426	1/1	0.95	0.07	45,45,45,45	0
84	MG	12	305	1/1	0.95	0.12	50,50,50,50	0
84	MG	5	3768	1/1	0.95	0.14	73,73,73,73	0
84	MG	5	3898	1/1	0.95	0.07	56,56,56,56	0
84	MG	5	3769	1/1	0.95	0.08	79,79,79,79	0
84	MG	5	3425	1/1	0.95	0.07	46,46,46,46	0
84	MG	O2	204	1/1	0.95	0.07	58,58,58,58	0
84	MG	5	3902	1/1	0.95	0.14	55,55,55,55	0
84	MG	5	3903	1/1	0.95	0.23	61,61,61,61	0
84	MG	1	3478	1/1	0.95	0.11	58,58,58,58	0
84	MG	6	2144	1/1	0.95	0.06	76,76,76,76	0
84	MG	14	1102	1/1	0.95	0.11	57,57,57,57	0
84	MG	5	3545	1/1	0.95	0.06	49,49,49,49	0
84	MG	5	3908	1/1	0.95	0.12	48,48,48,48	0
84	MG	1	3403	1/1	0.95	0.20	58,58,58,58	0
84	MG	5	4062	1/1	0.95	0.09	86,86,86,86	0
84	MG	5	3910	1/1	0.95	0.07	52,52,52,52	0
84	MG	5	3547	1/1	0.95	0.13	54,54,54,54	0
84	MG	1	3566	1/1	0.95	0.24	74,74,74,74	0
84	MG	1	3567	1/1	0.95	0.10	66,66,66,66	0
84	MG	5	3433	1/1	0.95	0.27	48,48,48,48	0
84	MG	1	3975	1/1	0.95	0.05	63,63,63,63	0
84	MG	19	204	1/1	0.95	0.12	57,57,57,57	0
84	MG	5	3553	1/1	0.95	0.06	59,59,59,59	0
84	MG	5	3435	1/1	0.95	0.06	50,50,50,50	0
84	MG	5	3923	1/1	0.95	0.23	67,67,67,67	0
84	MG	1	3412	1/1	0.95	0.10	51,51,51,51	0
84	MG	5	3925	1/1	0.95	0.09	53,53,53,53	0
84	MG	1	3525	1/1	0.95	0.12	69,69,69,69	0
84	MG	5	3558	1/1	0.95	0.10	60,60,60,60	0
84	MG	s2	301	1/1	0.95	0.15	69,69,69,69	0
84	MG	5	3559	1/1	0.95	0.08	56,56,56,56	1
84	MG	m3	204	1/1	0.95	0.17	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3413	1/1	0.95	0.10	55,55,55,55	1
84	MG	Q1	101	1/1	0.95	0.13	83,83,83,83	0
84	MG	Q2	502	1/1	0.95	0.07	65,65,65,65	0
84	MG	1	3878	1/1	0.95	0.10	60,60,60,60	0
84	MG	1	3597	1/1	0.95	0.12	46,46,46,46	0
84	MG	2	1957	1/1	0.95	0.08	95,95,95,95	0
84	MG	5	3681	1/1	0.95	0.19	66,66,66,66	0
84	MG	2	2017	1/1	0.95	0.19	86,86,86,86	0
84	MG	L2	304	1/1	0.95	0.09	73,73,73,73	0
84	MG	5	3942	1/1	0.95	0.07	79,79,79,79	0
84	MG	6	2013	1/1	0.95	0.13	76,76,76,76	0
84	MG	1	3572	1/1	0.95	0.19	70,70,70,70	0
84	MG	5	4093	1/1	0.95	0.14	73,73,73,73	0
84	MG	1	3881	1/1	0.95	0.07	78,78,78,78	0
84	MG	1	3931	1/1	0.95	0.21	79,79,79,79	0
84	MG	1	3459	1/1	0.95	0.19	61,61,61,61	0
84	MG	1	3883	1/1	0.95	0.06	75,75,75,75	0
84	MG	1	3987	1/1	0.95	0.09	60,60,60,60	0
84	MG	d3	201	1/1	0.95	0.10	65,65,65,65	0
84	MG	d3	202	1/1	0.95	0.08	69,69,69,69	0
84	MG	m7	205	1/1	0.95	0.15	53,53,53,53	0
84	MG	1	3404	1/1	0.95	0.17	53,53,53,53	0
84	MG	5	3465	1/1	0.95	0.12	41,41,41,41	0
84	MG	5	3582	1/1	0.95	0.11	54,54,54,54	0
84	MG	3	201	1/1	0.95	0.15	81,81,81,81	0
84	MG	1	3497	1/1	0.95	0.07	73,73,73,73	0
84	MG	5	3818	1/1	0.95	0.15	54,54,54,54	0
84	MG	sR	401	1/1	0.95	0.07	76,76,76,76	0
84	MG	1	3797	1/1	0.95	0.11	56,56,56,56	0
84	MG	n0	201	1/1	0.95	0.04	68,68,68,68	0
84	MG	5	3821	1/1	0.95	0.06	53,53,53,53	0
85	LLL	1	3993	31/31	0.95	0.10	61,61,61,61	0
85	LLL	1	3994	31/31	0.95	0.12	68,69,69,69	0
84	MG	1	3553	1/1	0.95	0.10	71,71,71,71	0
84	MG	5	4111	1/1	0.95	0.09	46,46,46,46	0
84	MG	5	3475	1/1	0.95	0.09	64,64,64,64	0
84	MG	5	4113	1/1	0.95	0.07	72,72,72,72	0
84	MG	5	3701	1/1	0.95	0.10	66,66,66,66	0
84	MG	5	3702	1/1	0.95	0.08	85,85,85,85	0
84	MG	1	3461	1/1	0.95	0.11	59,59,59,59	0
84	MG	2	2032	1/1	0.95	0.09	111,111,111,111	0
84	MG	6	2046	1/1	0.95	0.06	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	2047	1/1	0.95	0.16	79,79,79,79	0
84	MG	5	3829	1/1	0.95	0.06	57,57,57,57	0
84	MG	1	3607	1/1	0.95	0.18	58,58,58,58	0
84	MG	5	3481	1/1	0.95	0.08	49,49,49,49	0
85	LLL	2	2043	31/31	0.95	0.13	101,101,101,101	0
84	MG	1	3891	1/1	0.95	0.20	60,60,60,60	0
84	MG	1	3802	1/1	0.95	0.06	98,98,98,98	0
84	MG	1	3608	1/1	0.95	0.09	57,57,57,57	0
84	MG	1	3771	1/1	0.95	0.08	59,59,59,59	0
84	MG	5	3486	1/1	0.95	0.07	52,52,52,52	0
85	LLL	5	4154	31/31	0.95	0.11	67,67,67,67	0
84	MG	5	4128	1/1	0.95	0.07	68,68,68,68	0
84	MG	5	3487	1/1	0.95	0.15	61,61,61,61	0
84	MG	6	2060	1/1	0.95	0.08	86,86,86,86	0
84	MG	5	3718	1/1	0.95	0.09	68,68,68,68	0
84	MG	1	3805	1/1	0.95	0.07	74,74,74,74	0
84	MG	5	3980	1/1	0.95	0.07	52,52,52,52	0
84	MG	5	3603	1/1	0.95	0.06	80,80,80,80	0
85	LLL	5	4164	31/31	0.95	0.19	62,62,62,62	31
84	MG	5	3982	1/1	0.95	0.07	50,50,50,50	0
84	MG	1	3609	1/1	0.95	0.12	52,52,52,52	0
84	MG	q2	508	1/1	0.95	0.17	62,62,62,62	0
84	MG	6	2069	1/1	0.95	0.04	86,86,86,86	0
84	MG	5	4137	1/1	0.95	0.20	58,58,58,58	0
84	MG	1	3516	1/1	0.95	0.16	54,54,54,54	0
84	MG	5	3726	1/1	0.95	0.08	52,52,52,52	0
84	MG	5	3989	1/1	0.95	0.15	47,47,47,47	0
84	MG	5	3850	1/1	0.95	0.07	58,58,58,58	0
84	MG	6	1904	1/1	0.95	0.18	65,65,65,65	0
84	MG	5	3852	1/1	0.95	0.19	57,57,57,57	0
84	MG	1	3415	1/1	0.95	0.24	55,55,55,55	0
84	MG	5	3993	1/1	0.95	0.15	56,56,56,56	0
84	MG	6	2081	1/1	0.95	0.11	69,69,69,69	0
84	MG	6	1908	1/1	0.95	0.13	70,70,70,70	0
84	MG	5	3493	1/1	0.95	0.11	57,57,57,57	0
84	MG	1	3709	1/1	0.95	0.09	60,60,60,60	0
84	MG	1	3463	1/1	0.95	0.10	52,52,52,52	0
84	MG	5	3496	1/1	0.95	0.08	56,56,56,56	0
84	MG	5	3733	1/1	0.95	0.11	65,65,65,65	0
84	MG	7	203	1/1	0.95	0.07	52,52,52,52	0
84	MG	M7	201	1/1	0.95	0.21	59,59,59,59	0
85	LLL	6	2166	31/31	0.95	0.13	77,77,77,77	31

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3452	1/1	0.95	0.10	65,65,65,65	0
84	MG	M7	203	1/1	0.95	0.14	59,59,59,59	0
84	MG	5	3862	1/1	0.95	0.14	67,67,67,67	0
84	MG	5	3503	1/1	0.95	0.19	42,42,42,42	0
84	MG	M7	204	1/1	0.95	0.21	60,60,60,60	0
84	MG	1	3857	1/1	0.95	0.15	47,47,47,47	0
84	MG	5	3741	1/1	0.95	0.14	58,58,58,58	0
84	MG	6	1925	1/1	0.95	0.15	68,68,68,68	0
84	MG	5	3506	1/1	0.95	0.15	49,49,49,49	0
84	MG	5	3868	1/1	0.95	0.23	57,57,57,57	0
84	MG	5	4017	1/1	0.95	0.14	63,63,63,63	0
84	MG	5	3507	1/1	0.95	0.09	55,55,55,55	0
84	MG	5	3666	1/1	0.96	0.10	55,55,55,55	0
84	MG	5	3776	1/1	0.96	0.05	65,65,65,65	0
84	MG	5	3777	1/1	0.96	0.14	70,70,70,70	0
84	MG	1	3657	1/1	0.96	0.11	50,50,50,50	0
84	MG	L3	403	1/1	0.96	0.09	62,62,62,62	0
84	MG	1	3724	1/1	0.96	0.07	63,63,63,63	0
84	MG	5	4042	1/1	0.96	0.09	46,46,46,46	0
84	MG	2	2029	1/1	0.96	0.09	110,110,110,110	0
84	MG	5	3462	1/1	0.96	0.10	53,53,53,53	0
84	MG	5	3463	1/1	0.96	0.21	49,49,49,49	0
84	MG	5	3784	1/1	0.96	0.13	44,44,44,44	0
84	MG	5	3674	1/1	0.96	0.09	65,65,65,65	0
84	MG	5	3464	1/1	0.96	0.19	52,52,52,52	0
84	MG	5	3911	1/1	0.96	0.13	43,43,43,43	0
84	MG	1	3458	1/1	0.96	0.16	64,64,64,64	0
84	MG	5	3788	1/1	0.96	0.10	50,50,50,50	0
84	MG	8	217	1/1	0.96	0.07	64,64,64,64	0
84	MG	5	3677	1/1	0.96	0.08	59,59,59,59	0
84	MG	5	3916	1/1	0.96	0.11	51,51,51,51	0
84	MG	1	3832	1/1	0.96	0.10	58,58,58,58	0
84	MG	6	1955	1/1	0.96	0.13	77,77,77,77	0
84	MG	5	3467	1/1	0.96	0.07	48,48,48,48	0
84	MG	12	304	1/1	0.96	0.11	76,76,76,76	0
84	MG	5	3680	1/1	0.96	0.11	73,73,73,73	0
84	MG	5	3920	1/1	0.96	0.09	55,55,55,55	0
84	MG	6	2130	1/1	0.96	0.09	95,95,95,95	0
84	MG	13	404	1/1	0.96	0.13	42,42,42,42	0
84	MG	6	1962	1/1	0.96	0.09	69,69,69,69	0
84	MG	2	1907	1/1	0.96	0.07	95,95,95,95	0
84	MG	1	3983	1/1	0.96	0.05	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3484	1/1	0.96	0.13	60,60,60,60	0
84	MG	5	3472	1/1	0.96	0.09	57,57,57,57	0
84	MG	5	3798	1/1	0.96	0.12	58,58,58,58	0
84	MG	5	4064	1/1	0.96	0.05	44,44,44,44	0
84	MG	5	3799	1/1	0.96	0.08	64,64,64,64	0
84	MG	5	3474	1/1	0.96	0.10	67,67,67,67	0
84	MG	6	1973	1/1	0.96	0.16	65,65,65,65	0
84	MG	1	3762	1/1	0.96	0.14	70,70,70,70	0
84	MG	5	3580	1/1	0.96	0.13	48,48,48,48	0
84	MG	1	3405	1/1	0.96	0.16	53,53,53,53	0
84	MG	1	3420	1/1	0.96	0.12	53,53,53,53	0
84	MG	5	3935	1/1	0.96	0.12	52,52,52,52	0
84	MG	15	306	1/1	0.96	0.15	70,70,70,70	0
84	MG	16	201	1/1	0.96	0.15	60,60,60,60	0
84	MG	5	3583	1/1	0.96	0.10	59,59,59,59	0
84	MG	17	301	1/1	0.96	0.14	45,45,45,45	0
84	MG	5	3478	1/1	0.96	0.19	50,50,50,50	0
84	MG	1	3730	1/1	0.96	0.29	65,65,65,65	0
84	MG	1	3421	1/1	0.96	0.07	50,50,50,50	0
84	MG	1	3801	1/1	0.96	0.07	69,69,69,69	0
84	MG	5	4078	1/1	0.96	0.14	67,67,67,67	0
84	MG	5	3941	1/1	0.96	0.08	78,78,78,78	0
84	MG	2	2041	1/1	0.96	0.08	94,94,94,94	0
84	MG	1	3433	1/1	0.96	0.13	49,49,49,49	0
84	MG	1	3666	1/1	0.96	0.09	72,72,72,72	0
84	MG	5	3815	1/1	0.96	0.11	55,55,55,55	0
84	MG	1	3616	1/1	0.96	0.07	54,54,54,54	0
84	MG	1	3940	1/1	0.96	0.17	64,64,64,64	0
84	MG	6	2163	1/1	0.96	0.13	66,66,66,66	1
84	MG	1	3640	1/1	0.96	0.09	100,100,100,100	0
84	MG	5	3950	1/1	0.96	0.14	61,61,61,61	0
84	MG	2	1921	1/1	0.96	0.13	91,91,91,91	0
84	MG	m4	202	1/1	0.96	0.08	52,52,52,52	0
84	MG	6	2000	1/1	0.96	0.08	84,84,84,84	0
84	MG	5	4090	1/1	0.96	0.11	60,60,60,60	0
84	MG	6	2002	1/1	0.96	0.10	68,68,68,68	0
84	MG	5	3705	1/1	0.96	0.07	81,81,81,81	0
84	MG	1	3479	1/1	0.96	0.06	59,59,59,59	0
84	MG	2	1986	1/1	0.96	0.07	117,117,117,117	0
84	MG	1	3540	1/1	0.96	0.14	54,54,54,54	0
84	MG	5	4095	1/1	0.96	0.10	68,68,68,68	0
84	MG	1	3849	1/1	0.96	0.07	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	m6	201	1/1	0.96	0.06	52,52,52,52	0
84	MG	1	3643	1/1	0.96	0.10	67,67,67,67	0
84	MG	1	3809	1/1	0.96	0.07	59,59,59,59	0
84	MG	5	3401	1/1	0.96	0.14	49,49,49,49	0
84	MG	c8	201	1/1	0.96	0.08	75,75,75,75	0
84	MG	6	2017	1/1	0.96	0.09	81,81,81,81	0
84	MG	m6	205	1/1	0.96	0.11	51,51,51,51	1
84	MG	5	3714	1/1	0.96	0.07	71,71,71,71	0
84	MG	5	3499	1/1	0.96	0.08	53,53,53,53	0
84	MG	5	3833	1/1	0.96	0.06	53,53,53,53	0
84	MG	1	3423	1/1	0.96	0.12	51,51,51,51	0
84	MG	5	3719	1/1	0.96	0.12	66,66,66,66	0
84	MG	d3	203	1/1	0.96	0.12	68,68,68,68	0
84	MG	5	3720	1/1	0.96	0.07	71,71,71,71	0
84	MG	1	3673	1/1	0.96	0.06	66,66,66,66	0
84	MG	1	3596	1/1	0.96	0.14	55,55,55,55	0
84	MG	5	3969	1/1	0.96	0.09	70,70,70,70	0
84	MG	1	3951	1/1	0.96	0.05	82,82,82,82	0
84	MG	m8	202	1/1	0.96	0.10	63,63,63,63	0
84	MG	5	3411	1/1	0.96	0.19	46,46,46,46	0
84	MG	M7	205	1/1	0.96	0.11	59,59,59,59	0
84	MG	6	2033	1/1	0.96	0.14	74,74,74,74	0
84	MG	1	3576	1/1	0.96	0.15	72,72,72,72	0
85	LLL	1	3991	31/31	0.96	0.10	67,67,67,67	0
84	MG	1	3676	1/1	0.96	0.22	53,53,53,53	0
84	MG	5	3418	1/1	0.96	0.18	44,44,44,44	0
84	MG	1	3542	1/1	0.96	0.16	52,52,52,52	0
84	MG	5	3851	1/1	0.96	0.08	54,54,54,54	0
84	MG	5	3511	1/1	0.96	0.08	47,47,47,47	0
84	MG	1	3600	1/1	0.96	0.19	54,54,54,54	0
84	MG	5	3518	1/1	0.96	0.23	53,53,53,53	0
84	MG	5	3735	1/1	0.96	0.05	64,64,64,64	0
84	MG	1	3956	1/1	0.96	0.19	71,71,71,71	0
84	MG	6	2045	1/1	0.96	0.08	68,68,68,68	0
84	MG	1	3861	1/1	0.96	0.13	58,58,58,58	0
84	MG	5	3987	1/1	0.96	0.12	48,48,48,48	0
84	MG	5	3523	1/1	0.96	0.11	55,55,55,55	0
84	MG	4	207	1/1	0.96	0.08	59,59,59,59	0
84	MG	1	3712	1/1	0.96	0.12	82,82,82,82	0
84	MG	5	4131	1/1	0.96	0.07	70,70,70,70	0
84	MG	o2	201	1/1	0.96	0.20	55,55,55,55	0
84	MG	N4	201	1/1	0.96	0.07	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3747	1/1	0.96	0.10	71,71,71,71	0
84	MG	5	3995	1/1	0.96	0.09	47,47,47,47	0
84	MG	5	3996	1/1	0.96	0.19	44,44,44,44	0
84	MG	1	3543	1/1	0.96	0.26	51,51,51,51	0
84	MG	5	3529	1/1	0.96	0.08	47,47,47,47	0
84	MG	6	2061	1/1	0.96	0.08	80,80,80,80	0
84	MG	5	3999	1/1	0.96	0.08	52,52,52,52	0
85	LLL	5	4157	31/31	0.96	0.09	49,49,49,49	0
84	MG	1	3514	1/1	0.96	0.09	63,63,63,63	0
85	LLL	5	4159	31/31	0.96	0.11	59,59,60,60	0
84	MG	5	3631	1/1	0.96	0.08	55,55,55,55	0
84	MG	1	3866	1/1	0.96	0.10	55,55,55,55	0
84	MG	4	214	1/1	0.96	0.15	63,63,63,63	0
84	MG	5	4144	1/1	0.96	0.07	58,58,58,58	0
84	MG	5	3432	1/1	0.96	0.14	54,54,54,54	0
84	MG	5	3637	1/1	0.96	0.07	48,48,48,48	0
84	MG	O2	203	1/1	0.96	0.08	57,57,57,57	0
84	MG	6	2071	1/1	0.96	0.09	76,76,76,76	1
84	MG	5	4008	1/1	0.96	0.10	56,56,56,56	0
84	MG	1	3912	1/1	0.96	0.07	58,58,58,58	0
84	MG	1	3913	1/1	0.96	0.18	59,59,59,59	0
84	MG	7	201	1/1	0.96	0.11	45,45,45,45	0
84	MG	6	2076	1/1	0.96	0.10	64,64,64,64	0
84	MG	5	3541	1/1	0.96	0.09	52,52,52,52	0
84	MG	1	3444	1/1	0.96	0.15	70,70,70,70	0
84	MG	1	3751	1/1	0.96	0.11	72,72,72,72	0
84	MG	5	3646	1/1	0.96	0.07	65,65,65,65	0
84	MG	7	208	1/1	0.96	0.10	65,65,65,65	0
84	MG	5	4016	1/1	0.96	0.13	62,62,62,62	0
84	MG	7	210	1/1	0.96	0.08	67,67,67,67	0
84	MG	1	3563	1/1	0.96	0.07	76,76,76,76	0
84	MG	5	3439	1/1	0.96	0.10	54,54,54,54	0
84	MG	5	3762	1/1	0.96	0.12	65,65,65,65	0
84	MG	1	3970	1/1	0.96	0.10	50,50,50,50	0
84	MG	7	217	1/1	0.96	0.11	63,63,63,63	0
84	MG	1	3824	1/1	0.96	0.06	62,62,62,62	0
84	MG	1	3473	1/1	0.96	0.17	59,59,59,59	0
84	MG	1	3919	1/1	0.96	0.12	69,69,69,69	0
84	MG	5	4026	1/1	0.96	0.16	66,66,66,66	0
84	MG	5	3887	1/1	0.96	0.04	84,84,84,84	0
84	MG	1	3826	1/1	0.96	0.23	65,65,65,65	0
84	MG	5	3446	1/1	0.96	0.10	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	6	1926	1/1	0.96	0.07	75,75,75,75	0
84	MG	1	3531	1/1	0.96	0.07	68,68,68,68	0
84	MG	5	3770	1/1	0.96	0.06	79,79,79,79	0
84	MG	1	3922	1/1	0.96	0.06	61,61,61,61	0
84	MG	L2	305	1/1	0.96	0.13	60,60,60,60	0
84	MG	6	1931	1/1	0.96	0.05	67,67,67,67	0
84	MG	Q2	505	1/1	0.96	0.26	59,59,59,59	0
84	MG	1	3689	1/1	0.96	0.07	58,58,58,58	0
84	MG	5	3417	1/1	0.97	0.19	43,43,43,43	0
84	MG	o3	201	1/1	0.97	0.08	56,56,56,56	0
84	MG	1	3837	1/1	0.97	0.22	58,58,58,58	0
84	MG	1	3685	1/1	0.97	0.19	56,56,56,56	0
84	MG	6	2015	1/1	0.97	0.12	68,68,68,68	0
84	MG	6	2016	1/1	0.97	0.07	79,79,79,79	0
84	MG	1	3570	1/1	0.97	0.15	71,71,71,71	0
84	MG	M0	304	1/1	0.97	0.06	62,62,62,62	0
84	MG	5	3548	1/1	0.97	0.08	60,60,60,60	0
84	MG	q1	102	1/1	0.97	0.11	64,64,64,64	0
84	MG	1	3610	1/1	0.97	0.10	52,52,52,52	0
84	MG	1	3688	1/1	0.97	0.07	61,61,61,61	0
84	MG	5	3707	1/1	0.97	0.06	73,73,73,73	0
84	MG	1	3583	1/1	0.97	0.07	63,63,63,63	0
84	MG	5	4075	1/1	0.97	0.08	97,97,97,97	0
84	MG	4	209	1/1	0.97	0.13	59,59,59,59	0
84	MG	1	3843	1/1	0.97	0.13	58,58,58,58	0
84	MG	1	3528	1/1	0.97	0.15	63,63,63,63	0
84	MG	1	3406	1/1	0.97	0.10	58,58,58,58	0
84	MG	5	3978	1/1	0.97	0.06	51,51,51,51	0
84	MG	6	2031	1/1	0.97	0.07	73,73,73,73	0
84	MG	5	3979	1/1	0.97	0.13	46,46,46,46	0
84	MG	6	1902	1/1	0.97	0.09	51,51,51,51	0
84	MG	5	3884	1/1	0.97	0.08	69,69,69,69	0
84	MG	1	3910	1/1	0.97	0.16	56,56,56,56	0
84	MG	M5	304	1/1	0.97	0.14	67,67,67,67	0
84	MG	5	3715	1/1	0.97	0.07	54,54,54,54	0
84	MG	5	3888	1/1	0.97	0.10	62,62,62,62	0
84	MG	5	4087	1/1	0.97	0.11	52,52,52,52	0
84	MG	5	3632	1/1	0.97	0.14	49,49,49,49	0
84	MG	5	3986	1/1	0.97	0.12	45,45,45,45	1
84	MG	5	3717	1/1	0.97	0.10	52,52,52,52	0
84	MG	5	3633	1/1	0.97	0.10	45,45,45,45	0
84	MG	6	2044	1/1	0.97	0.10	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	l2	301	1/1	0.97	0.10	59,59,59,59	0
84	MG	1	3631	1/1	0.97	0.10	76,76,76,76	0
84	MG	5	3490	1/1	0.97	0.11	58,58,58,58	0
84	MG	M6	201	1/1	0.97	0.10	60,60,60,60	0
84	MG	l3	402	1/1	0.97	0.12	51,51,51,51	0
84	MG	1	3716	1/1	0.97	0.12	66,66,66,66	0
84	MG	6	2052	1/1	0.97	0.06	73,73,73,73	0
84	MG	6	1919	1/1	0.97	0.11	80,80,80,80	0
84	MG	1	3848	1/1	0.97	0.08	57,57,57,57	0
84	MG	1	3513	1/1	0.97	0.11	55,55,55,55	0
84	MG	1	3435	1/1	0.97	0.10	53,53,53,53	0
84	MG	6	1923	1/1	0.97	0.15	71,71,71,71	0
84	MG	1	3515	1/1	0.97	0.17	64,64,64,64	0
84	MG	l3	408	1/1	0.97	0.07	64,64,64,64	0
84	MG	5	3643	1/1	0.97	0.10	55,55,55,55	0
84	MG	5	4000	1/1	0.97	0.07	45,45,45,45	0
84	MG	5	3497	1/1	0.97	0.11	49,49,49,49	0
84	MG	d5	201	1/1	0.97	0.10	90,90,90,90	0
84	MG	5	3811	1/1	0.97	0.31	44,44,44,44	0
84	MG	1	3427	1/1	0.97	0.09	51,51,51,51	0
84	MG	5	3570	1/1	0.97	0.06	67,67,67,67	0
84	MG	5	3905	1/1	0.97	0.12	44,44,44,44	0
84	MG	5	4108	1/1	0.97	0.12	59,59,59,59	0
84	MG	1	3772	1/1	0.97	0.07	59,59,59,59	1
84	MG	5	3573	1/1	0.97	0.14	61,61,61,61	0
84	MG	1	3498	1/1	0.97	0.07	62,62,62,62	0
84	MG	5	3501	1/1	0.97	0.11	54,54,54,54	0
84	MG	1	3856	1/1	0.97	0.13	55,55,55,55	0
84	MG	5	4011	1/1	0.97	0.05	45,45,45,45	0
84	MG	N0	204	1/1	0.97	0.11	68,68,68,68	0
84	MG	S3	301	1/1	0.97	0.10	100,100,100,100	0
84	MG	5	3656	1/1	0.97	0.11	78,78,78,78	0
84	MG	1	3655	1/1	0.97	0.14	50,50,50,50	0
84	MG	l9	202	1/1	0.97	0.08	58,58,58,58	0
84	MG	l9	203	1/1	0.97	0.07	49,49,49,49	0
84	MG	5	3742	1/1	0.97	0.17	67,67,67,67	0
84	MG	5	3447	1/1	0.97	0.17	49,49,49,49	0
84	MG	6	1948	1/1	0.97	0.14	66,66,66,66	0
84	MG	5	3448	1/1	0.97	0.20	49,49,49,49	0
84	MG	1	3889	1/1	0.97	0.07	54,54,54,54	0
84	MG	5	4124	1/1	0.97	0.12	50,50,50,50	0
84	MG	5	3921	1/1	0.97	0.08	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	3	207	1/1	0.97	0.05	58,58,58,58	0
84	MG	5	4022	1/1	0.97	0.06	50,50,50,50	0
84	MG	5	3585	1/1	0.97	0.13	48,48,48,48	0
84	MG	5	3452	1/1	0.97	0.07	48,48,48,48	0
84	MG	5	4025	1/1	0.97	0.04	55,55,55,55	0
84	MG	5	3587	1/1	0.97	0.11	55,55,55,55	0
84	MG	1	3959	1/1	0.97	0.09	61,61,61,61	0
84	MG	5	3589	1/1	0.97	0.08	58,58,58,58	0
84	MG	5	3512	1/1	0.97	0.09	56,56,56,56	0
84	MG	5	3838	1/1	0.97	0.07	57,57,57,57	0
84	MG	5	3454	1/1	0.97	0.09	46,46,46,46	0
84	MG	5	3931	1/1	0.97	0.15	44,44,44,44	0
84	MG	5	4138	1/1	0.97	0.07	48,48,48,48	0
84	MG	5	3516	1/1	0.97	0.06	49,49,49,49	0
84	MG	5	3933	1/1	0.97	0.22	55,55,55,55	0
84	MG	5	3517	1/1	0.97	0.23	49,49,49,49	0
84	MG	5	3455	1/1	0.97	0.11	55,55,55,55	0
84	MG	5	3843	1/1	0.97	0.07	50,50,50,50	0
84	MG	1	3620	1/1	0.97	0.16	65,65,65,65	0
84	MG	1	3511	1/1	0.97	0.12	59,59,59,59	0
84	MG	2	1964	1/1	0.97	0.12	90,90,90,90	0
84	MG	m7	201	1/1	0.97	0.08	57,57,57,57	0
84	MG	5	3847	1/1	0.97	0.14	45,45,45,45	0
84	MG	5	3848	1/1	0.97	0.08	44,44,44,44	0
84	MG	5	3849	1/1	0.97	0.08	50,50,50,50	0
84	MG	1	3606	1/1	0.97	0.11	52,52,52,52	0
84	MG	3	212	1/1	0.97	0.06	64,64,64,64	0
84	MG	1	3752	1/1	0.97	0.06	62,62,62,62	0
84	MG	1	3659	1/1	0.97	0.08	69,69,69,69	0
84	MG	7	204	1/1	0.97	0.14	54,54,54,54	0
84	MG	1	3895	1/1	0.97	0.08	66,66,66,66	0
84	MG	7	206	1/1	0.97	0.11	62,62,62,62	0
84	MG	5	3948	1/1	0.97	0.19	58,58,58,58	0
84	MG	1	3519	1/1	0.97	0.14	70,70,70,70	0
84	MG	5	3686	1/1	0.97	0.06	68,68,68,68	0
84	MG	n0	202	1/1	0.97	0.08	52,52,52,52	0
84	MG	5	3408	1/1	0.97	0.08	45,45,45,45	0
84	MG	7	211	1/1	0.97	0.10	67,67,67,67	0
84	MG	n0	205	1/1	0.97	0.09	47,47,47,47	0
84	MG	1	3755	1/1	0.97	0.19	60,60,60,60	0
84	MG	5	3689	1/1	0.97	0.04	78,78,78,78	0
84	MG	5	3532	1/1	0.97	0.03	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	7	215	1/1	0.97	0.07	63,63,63,63	0
84	MG	1	3705	1/1	0.97	0.05	59,59,59,59	0
84	MG	5	3413	1/1	0.97	0.12	46,46,46,46	0
84	MG	2	1973	1/1	0.97	0.14	96,96,96,96	0
84	MG	n8	201	1/1	0.97	0.14	54,54,54,54	0
84	MG	5	3470	1/1	0.97	0.14	54,54,54,54	0
84	MG	1	3624	1/1	0.97	0.06	74,74,74,74	0
84	MG	5	3540	1/1	0.97	0.09	49,49,49,49	0
84	MG	1	3537	1/1	0.97	0.10	60,60,60,60	0
84	MG	6	2009	1/1	0.97	0.06	73,73,73,73	0
86	ZN	E1	501	1/1	0.97	0.08	182,182,182,182	0
84	MG	5	3473	1/1	0.97	0.10	63,63,63,63	0
84	MG	5	3515	1/1	0.98	0.10	43,43,43,43	0
84	MG	l3	401	1/1	0.98	0.09	57,57,57,57	0
84	MG	1	3870	1/1	0.98	0.10	58,58,58,58	0
84	MG	N3	203	1/1	0.98	0.11	75,75,75,75	0
84	MG	5	3814	1/1	0.98	0.09	48,48,48,48	0
84	MG	1	3436	1/1	0.98	0.17	49,49,49,49	0
84	MG	1	3581	1/1	0.98	0.04	64,64,64,64	0
84	MG	6	1994	1/1	0.98	0.19	69,69,69,69	0
84	MG	5	3869	1/1	0.98	0.20	67,67,67,67	0
84	MG	5	3555	1/1	0.98	0.05	62,62,62,62	1
84	MG	1	3929	1/1	0.98	0.07	63,63,63,63	0
84	MG	5	3820	1/1	0.98	0.08	52,52,52,52	0
84	MG	5	3521	1/1	0.98	0.08	50,50,50,50	0
84	MG	5	3724	1/1	0.98	0.08	60,60,60,60	1
84	MG	n0	206	1/1	0.98	0.09	48,48,48,48	0
84	MG	5	3522	1/1	0.98	0.10	42,42,42,42	0
84	MG	5	3406	1/1	0.98	0.12	44,44,44,44	0
84	MG	5	3682	1/1	0.98	0.07	73,73,73,73	0
84	MG	n3	201	1/1	0.98	0.05	43,43,43,43	0
84	MG	5	3826	1/1	0.98	0.10	56,56,56,56	0
84	MG	5	3988	1/1	0.98	0.07	45,45,45,45	0
84	MG	5	3407	1/1	0.98	0.11	43,43,43,43	0
84	MG	1	3679	1/1	0.98	0.05	68,68,68,68	0
84	MG	5	4105	1/1	0.98	0.07	56,56,56,56	0
84	MG	5	3639	1/1	0.98	0.12	42,42,42,42	0
84	MG	5	3731	1/1	0.98	0.05	69,69,69,69	0
84	MG	5	3409	1/1	0.98	0.06	45,45,45,45	0
84	MG	1	3613	1/1	0.98	0.15	48,48,48,48	0
84	MG	L4	402	1/1	0.98	0.05	65,65,65,65	0
84	MG	1	3660	1/1	0.98	0.05	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	o2	203	1/1	0.98	0.07	51,51,51,51	0
84	MG	3	214	1/1	0.98	0.04	86,86,86,86	0
84	MG	1	3966	1/1	0.98	0.07	68,68,68,68	0
84	MG	1	3544	1/1	0.98	0.08	54,54,54,54	0
84	MG	5	3533	1/1	0.98	0.07	45,45,45,45	0
84	MG	1	3437	1/1	0.98	0.05	51,51,51,51	0
84	MG	5	4059	1/1	0.98	0.10	66,66,66,66	0
84	MG	5	3572	1/1	0.98	0.13	67,67,67,67	0
84	MG	m0	301	1/1	0.98	0.13	49,49,49,49	1
84	MG	6	1957	1/1	0.98	0.06	66,66,66,66	0
84	MG	5	3444	1/1	0.98	0.14	45,45,45,45	0
84	MG	1	3599	1/1	0.98	0.13	52,52,52,52	0
84	MG	1	3721	1/1	0.98	0.11	59,59,59,59	0
84	MG	1	3429	1/1	0.98	0.14	50,50,50,50	0
84	MG	5	4123	1/1	0.98	0.07	53,53,53,53	0
84	MG	5	3655	1/1	0.98	0.12	78,78,78,78	0
84	MG	5	3952	1/1	0.98	0.09	58,58,58,58	0
84	MG	6	1965	1/1	0.98	0.05	72,72,72,72	0
84	MG	1	3434	1/1	0.98	0.08	53,53,53,53	0
84	MG	5	3578	1/1	0.98	0.09	48,48,48,48	1
84	MG	5	3658	1/1	0.98	0.10	71,71,71,71	0
84	MG	5	3797	1/1	0.98	0.11	57,57,57,57	0
84	MG	6	1970	1/1	0.98	0.23	63,63,63,63	0
84	MG	1	3939	1/1	0.98	0.15	61,61,61,61	0
84	MG	1	3974	1/1	0.98	0.05	79,79,79,79	0
84	MG	5	3661	1/1	0.98	0.11	61,61,61,61	0
84	MG	5	3451	1/1	0.98	0.12	45,45,45,45	0
84	MG	5	3906	1/1	0.98	0.10	50,50,50,50	0
84	MG	5	3480	1/1	0.98	0.06	49,49,49,49	0
84	MG	6	2117	1/1	0.98	0.07	56,56,56,56	0
84	MG	1	3407	1/1	0.98	0.11	59,59,59,59	0
84	MG	L2	302	1/1	0.98	0.10	43,43,43,43	0
84	MG	5	3757	1/1	0.98	0.05	64,64,64,64	0
84	MG	6	2050	1/1	0.98	0.09	71,71,71,71	0
84	MG	5	3426	1/1	0.98	0.05	48,48,48,48	0
84	MG	5	3912	1/1	0.98	0.08	45,45,45,45	0
84	MG	5	3513	1/1	0.98	0.10	48,48,48,48	0
84	MG	5	3669	1/1	0.98	0.10	63,63,63,63	0
84	MG	l2	302	1/1	0.98	0.10	53,53,53,53	0
84	MG	1	3725	1/1	0.98	0.11	62,62,62,62	0
84	MG	5	3625	1/1	0.98	0.07	54,54,54,54	0
86	ZN	e1	501	1/1	0.98	0.05	150,150,150,150	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	MG	1	3401	1/1	0.99	0.09	56,56,56,56	0
84	MG	O2	201	1/1	0.99	0.04	60,60,60,60	0
84	MG	1	3693	1/1	0.99	0.06	64,64,64,64	0
84	MG	5	3648	1/1	0.99	0.04	65,65,65,65	0
84	MG	5	3402	1/1	0.99	0.09	47,47,47,47	0
84	MG	1	3942	1/1	0.99	0.13	49,49,49,49	0
84	MG	1	3684	1/1	0.99	0.08	58,58,58,58	0
84	MG	5	3630	1/1	0.99	0.05	50,50,50,50	0
84	MG	1	3595	1/1	0.99	0.06	54,54,54,54	0
84	MG	1	3422	1/1	0.99	0.09	50,50,50,50	0
84	MG	5	3816	1/1	0.99	0.05	43,43,43,43	0
84	MG	1	3471	1/1	0.99	0.07	63,63,63,63	0
84	MG	N3	202	1/1	0.99	0.12	55,55,55,55	0
84	MG	2	1982	1/1	0.99	0.04	97,97,97,97	0
84	MG	1	3562	1/1	0.99	0.05	80,80,80,80	0
84	MG	1	3851	1/1	0.99	0.05	57,57,57,57	0
84	MG	5	3538	1/1	0.99	0.04	52,52,52,52	0
84	MG	5	3412	1/1	0.99	0.06	47,47,47,47	0
84	MG	6	2004	1/1	0.99	0.12	67,67,67,67	0
84	MG	5	3662	1/1	0.99	0.03	50,50,50,50	0
84	MG	1	3719	1/1	0.99	0.04	55,55,55,55	0
84	MG	5	3994	1/1	0.99	0.03	48,48,48,48	0
86	ZN	O4	501	1/1	0.99	0.04	141,141,141,141	0
86	ZN	Q2	501	1/1	0.99	0.02	102,102,102,102	0
84	MG	5	3560	1/1	0.99	0.11	51,51,51,51	0
86	ZN	D9	101	1/1	0.99	0.04	121,121,121,121	0
84	MG	1	3416	1/1	0.99	0.04	56,56,56,56	0
86	ZN	o4	501	1/1	0.99	0.06	127,127,127,127	0
84	MG	1	3408	1/1	0.99	0.08	51,51,51,51	0
84	MG	1	3453	1/1	0.99	0.03	70,70,70,70	0
86	ZN	Q0	500	1/1	1.00	0.04	72,72,72,72	0
84	MG	1	3647	1/1	1.00	0.02	55,55,55,55	0
86	ZN	Q3	501	1/1	1.00	0.02	108,108,108,108	0
86	ZN	o7	501	1/1	1.00	0.04	80,80,80,80	0
86	ZN	q0	201	1/1	1.00	0.01	52,52,52,52	0
86	ZN	q2	501	1/1	1.00	0.02	94,94,94,94	0
86	ZN	q3	501	1/1	1.00	0.02	102,102,102,102	0
86	ZN	d6	101	1/1	1.00	0.02	82,82,82,82	0
86	ZN	D6	500	1/1	1.00	0.02	101,101,101,101	0
86	ZN	d9	101	1/1	1.00	0.02	89,89,89,89	0
86	ZN	O7	101	1/1	1.00	0.02	77,77,77,77	0

6.5 Other polymers [i](#)

There are no such residues in this entry.