



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 09:59 AM UTC

PDB ID : 5DGE / pdb_00005dge
Title : Coping with proline stalling: structural basis of hypusine-induced protein synthesis by the eukaryotic ribosome
Authors : Melnikov, S.; Mailliot, J.; Shin, B.-S.; Rigger, L.; Yusupova, G.; Micura, R.; Dever, T.E.; Yusupov, M.
Deposited on : 2015-08-27
Resolution : 3.45 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

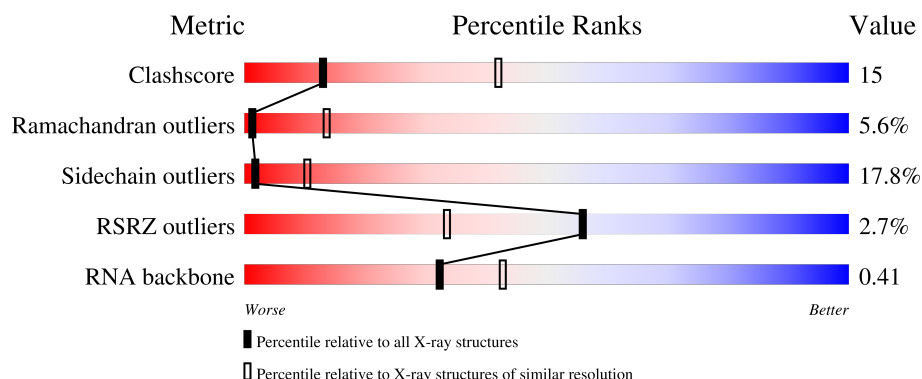
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.45 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1128 (3.50-3.42)
Ramachandran outliers	187476	1101 (3.50-3.42)
Sidechain outliers	187428	1102 (3.50-3.42)
RSRZ outliers	180081	1070 (3.50-3.42)
RNA backbone	3983	1186 (3.92-3.00)

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	2	1800	 2% 38% 47% 14%
1	6	1800	 % 40% 45% 14%
2	S0	251	 4% 38% 35% 9% 18%
2	s0	251	 3% 34% 35% 12% 18%

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Mol	Chain	Length	Quality of chain
3	S1	254	
3	s1	254	
4	S2	253	
4	s2	253	
5	S3	239	
5	s3	239	
6	S4	260	
6	s4	260	
7	S5	224	
7	s5	224	
8	S6	236	
8	s6	236	
9	S7	189	
9	s7	189	
10	S8	200	
10	s8	200	
11	S9	196	
11	s9	196	
12	C0	105	
12	c0	105	
13	C1	155	
13	c1	155	
14	C2	142	
14	c2	142	
15	C3	150	

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Mol	Chain	Length	Quality of chain
15	c3	150	
16	C4	136	
16	c4	136	
17	C5	141	
17	c5	141	
18	C6	142	
18	c6	142	
19	C7	136	
19	c7	136	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	120	
22	d0	120	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	107	
27	d5	107	

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Mol	Chain	Length	Quality of chain
28	D6	97	
28	d6	97	
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	63	
32	e0	63	
33	E1	76	
33	e1	76	
34	SR	318	
34	sR	318	
35	SM	273	
35	sM	273	
36	1	3396	
36	5	3396	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	253	
39	l2	253	
40	L3	386	

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Mol	Chain	Length	Quality of chain
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	243	
44	l7	243	
45	L8	255	
45	l8	255	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	173	
48	m1	173	
49	M3	198	
49	m3	198	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	198	
52	m6	198	

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Mol	Chain	Length	Quality of chain
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	120	
58	n2	120	
59	N3	136	
59	n3	136	
60	N4	155	
60	n4	155	
61	N5	141	
61	n5	141	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	

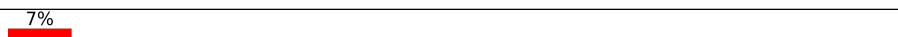
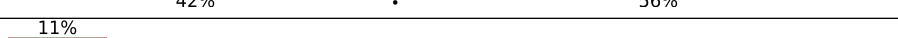
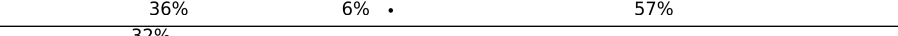
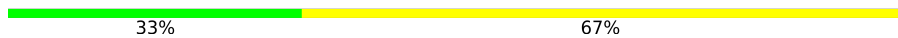
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Mol	Chain	Length	Quality of chain
65	n9	58	
66	O0	104	
66	o0	104	
67	O1	112	
67	o1	112	
68	O2	129	
68	o2	129	
69	O3	106	
69	o3	106	
70	O4	121	
70	o4	121	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	

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Mol	Chain	Length	Quality of chain
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	m2	165	
81	p0	311	
82	p1	106	
82	p2	106	
83	f	157	
84	B	3	
84	C	3	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
83	5CT	f	51	X	-	-	X
85	MG	1	3560	-	-	-	X
85	MG	1	3595	-	-	-	X
85	MG	1	3635	-	-	-	X
85	MG	2	1907	-	-	-	X
85	MG	2	1911	-	-	-	X
85	MG	2	1912	-	-	-	X
85	MG	2	1922	-	-	-	X
85	MG	2	1928	-	-	-	X
85	MG	2	1932	-	-	-	X
85	MG	2	1933	-	-	-	X
85	MG	2	1949	-	-	-	X
85	MG	2	1951	-	-	-	X
85	MG	2	1974	-	-	-	X
85	MG	5	3628	-	-	-	X
85	MG	6	1901	-	-	-	X
85	MG	6	1937	-	-	-	X
85	MG	6	1943	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	6	1974	-	-	-	X
85	MG	M7	201	-	-	-	X
86	OHX	1	3854	-	-	X	-
86	OHX	1	3889	-	-	X	-
86	OHX	1	3940	-	-	X	-
86	OHX	1	4071	-	-	X	-
86	OHX	1	4082	-	-	X	-
86	OHX	1	4085	-	-	X	-
86	OHX	2	2058	-	-	X	-
86	OHX	2	2099	-	-	X	-
86	OHX	2	2131	-	-	X	-
86	OHX	5	3915	-	-	X	-
86	OHX	5	3918	-	-	X	-
86	OHX	5	3955	-	-	X	-
86	OHX	5	4001	-	-	X	-
86	OHX	5	4002	-	-	X	-
86	OHX	5	4084	-	-	X	-
86	OHX	6	2067	-	-	X	-
86	OHX	6	2124	-	-	X	-
86	OHX	C5	201	-	-	X	-
86	OHX	M0	304	-	-	X	-
86	OHX	O7	104	-	-	X	-
86	OHX	c5	202	-	-	X	-
86	OHX	o7	502	-	-	X	-

2 Entry composition

There are 90 unique types of molecules in this entry. The entry contains 413121 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O		0	0	0
			1481	951	265	265				
9	s7	186	Total	C	N	O		0	0	0
			1491	957	267	267				

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			773	500	126	145	2			
12	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C0	89	ALA	GLY	conflict	UNP Q08745
c0	89	ALA	GLY	conflict	UNP Q08745

- Molecule 13 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1214	775	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	147	ALA	GLY	conflict	UNP P0CX47
c1	147	ALA	GLY	conflict	UNP P0CX47

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

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

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C2	104	ALA	GLY	conflict	UNP P48589
C2	110	ALA	GLY	conflict	UNP P48589
c2	104	ALA	GLY	conflict	UNP P48589
c2	110	ALA	GLY	conflict	UNP P48589

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O		0	0	0
			1105	708	203	194				

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	c6	142	Total	C	N	O	0	0	0
			1111	711	204	196			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			
19	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2436	1541	418	469	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	sR	318	Total	C	N	O	S	0	0	0
			2441	1544	418	471	8			

- Molecule 35 is a protein called Suppressor protein STM1.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
36	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			
45	l8	231	Total	C	N	O	S	0	0	0
			1764	1131	316	314	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L8	119	ALA	GLY	conflict	UNP P17076
l8	119	ALA	GLY	conflict	UNP P17076

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

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

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

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M1	3	THR	ALA	conflict	UNP P0C0W9
m1	3	THR	ALA	conflict	UNP P0C0W9

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O	0	0	0
			1420	882	281	257			
53	m7	155	Total	C	N	O	0	0	0
			1227	764	238	225			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			
60	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			742	479	124	138	1			
66	o0	100	Total	C	N	O	S	0	0	0
			766	492	128	145	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	156	1			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			965	612	185	167	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			770	481	156	131	2			

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O	0	0	0
			612	391	115	106			
74	o8	77	Total	C	N	O	0	0	0
			608	388	114	106			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
80	m2	150	Total	C	N	O	0	0	0
			739	439	150	150			

- Molecule 81 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 82 is a protein called 60S acidic ribosomal protein P1-alpha.

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

- Molecule 83 is a protein called Eukaryotic translation initiation factor 5A-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	f	148	Total	C	N	O	S	0	0	0
			1122	696	189	228	9			

- Molecule 84 is a RNA chain called DNA (5'-R(*CP*CP*(NA))-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
84	B	3	Total	C	N	O	P	0	0	0
			59	28	12	17	2			
84	C	3	Total	C	N	O	P	0	0	0
			62	28	12	19	3			

- Molecule 85 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	2	90	Total	Mg	0	0
			90	90		
85	S2	1	Total	Mg	0	0
			1	1		
85	D3	1	Total	Mg	0	0
			1	1		
85	SM	1	Total	Mg	0	0
			1	1		
85	1	361	Total	Mg	0	0
			361	361		
85	3	8	Total	Mg	0	0
			8	8		
85	4	15	Total	Mg	0	0
			15	15		
85	L2	2	Total	Mg	0	0
			2	2		
85	L3	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	L6	1	Total 1	Mg 1	0	0
85	L7	3	Total 3	Mg 3	0	0
85	M0	2	Total 2	Mg 2	0	0
85	M5	2	Total 2	Mg 2	0	0
85	M6	3	Total 3	Mg 3	0	0
85	M7	4	Total 4	Mg 4	0	0
85	M9	1	Total 1	Mg 1	0	0
85	N3	1	Total 1	Mg 1	0	0
85	N6	1	Total 1	Mg 1	0	0
85	N8	3	Total 3	Mg 3	0	0
85	O4	1	Total 1	Mg 1	0	0
85	O7	2	Total 2	Mg 2	0	0
85	Q2	1	Total 1	Mg 1	0	0
85	6	111	Total 111	Mg 111	0	0
85	s4	1	Total 1	Mg 1	0	0
85	s8	2	Total 2	Mg 2	0	0
85	c8	2	Total 2	Mg 2	0	0
85	c9	1	Total 1	Mg 1	0	0
85	d2	1	Total 1	Mg 1	0	0
85	d3	1	Total 1	Mg 1	0	0
85	d6	1	Total 1	Mg 1	0	0

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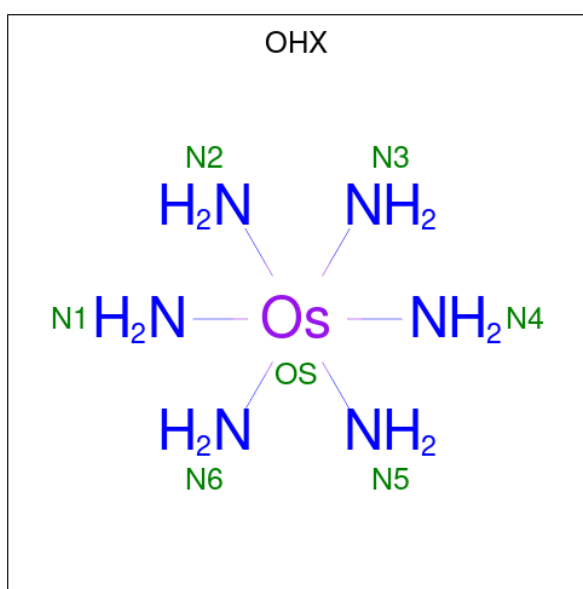
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	5	415	Total 415	Mg 415	0	0
85	7	13	Total 13	Mg 13	0	0
85	8	10	Total 10	Mg 10	0	0
85	l2	2	Total 2	Mg 2	0	0
85	l3	2	Total 2	Mg 2	0	0
85	l4	1	Total 1	Mg 1	0	0
85	l5	1	Total 1	Mg 1	0	0
85	l7	2	Total 2	Mg 2	0	0
85	m0	1	Total 1	Mg 1	0	0
85	m3	1	Total 1	Mg 1	0	0
85	m5	3	Total 3	Mg 3	0	0
85	m7	3	Total 3	Mg 3	0	0
85	n0	1	Total 1	Mg 1	0	0
85	n3	1	Total 1	Mg 1	0	0
85	n6	1	Total 1	Mg 1	0	0
85	n8	2	Total 2	Mg 2	0	0
85	o2	1	Total 1	Mg 1	0	0
85	o3	1	Total 1	Mg 1	0	0
85	o4	1	Total 1	Mg 1	0	0
85	q1	1	Total 1	Mg 1	0	0
85	q2	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	q3	1	Total	Mg	0	0
			1	1		
85	f	1	Total	Mg	0	0
			1	1		
85	B	1	Total	Mg	0	0
			1	1		
85	C	1	Total	Mg	0	0
			1	1		

- Molecule 86 is osmium (III) hexammine (CCD ID: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	1	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	1	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	1	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		
86	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total	N	Os	0	0
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86	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	2	1	Total 7	N 6	Os 1	0	0
86	2	1	Total 7	N 6	Os 1	0	0
86	2	1	Total 7	N 6	Os 1	0	0
86	2	1	Total 7	N 6	Os 1	0	0
86	2	1	Total 7	N 6	Os 1	0	0
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86	2	1	Total 7	N 6	Os 1	0	0
86	2	1	Total 7	N 6	Os 1	0	0
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86	S6	1	Total 7	N 6	Os 1	0	0
86	S8	1	Total 7	N 6	Os 1	0	0
86	S9	1	Total 7	N 6	Os 1	0	0
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86	C5	1	Total 7	N 6	Os 1	0	0
86	C8	1	Total 7	N 6	Os 1	0	0
86	D9	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	1	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	0	0
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86	1	1	Total 7	N 6	Os 1	0	0
86	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	1	1	Total	N	Os	2	0
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	3	1	Total	N	Os	0	0
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86	3	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	L3	1	Total	N	Os	0	0
			7	6	1		
86	L3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	L4	1	Total	N	Os	0	0
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86	L5	1	Total	N	Os	0	0
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86	M0	1	Total	N	Os	0	0
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86	M0	1	Total	N	Os	0	0
			7	6	1		
86	M5	1	Total	N	Os	0	0
			7	6	1		
86	M5	1	Total	N	Os	0	0
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86	M6	1	Total	N	Os	0	0
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86	M7	1	Total	N	Os	0	0
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86	M8	1	Total	N	Os	0	0
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86	M9	1	Total	N	Os	0	0
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86	N8	1	Total	N	Os	0	0
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86	N9	1	Total	N	Os	0	0
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86	O1	1	Total	N	Os	0	0
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86	O3	1	Total	N	Os	0	0
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86	O4	1	Total	N	Os	0	0
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86	O7	1	Total	N	Os	0	0
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86	O9	1	Total	N	Os	0	0
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86	Q2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	1	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total 7	N 6	Os 1	0	0
86	s1	1	Total 7	N 6	Os 1	0	0
86	s1	1	Total 7	N 6	Os 1	0	0
86	s4	1	Total 7	N 6	Os 1	0	0
86	s8	1	Total 7	N 6	Os 1	0	0
86	s9	1	Total 7	N 6	Os 1	0	0
86	c3	1	Total 7	N 6	Os 1	0	0
86	c5	1	Total 7	N 6	Os 1	0	0
86	c5	1	Total 7	N 6	Os 1	0	0
86	c8	1	Total 7	N 6	Os 1	0	0
86	d4	1	Total 7	N 6	Os 1	0	0
86	d9	1	Total 7	N 6	Os 1	0	0
86	sR	1	Total 7	N 6	Os 1	0	0
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86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	5	1	Total	N	Os	0	0
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86	5	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	5	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	1	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	1	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	5	1	Total 7	N 6	Os 1	1	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0
86	7	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	7	1	Total	N	Os	1	0
			7	6	1		
86	7	1	Total	N	Os	1	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	1	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	1	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		
86	8	1	Total	N	Os	1	0
			7	6	1		
86	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	8	1	Total 7	N 6	Os 1	0	0
86	8	1	Total 7	N 6	Os 1	0	0
86	8	1	Total 7	N 6	Os 1	0	0
86	l3	1	Total 7	N 6	Os 1	0	0
86	l3	1	Total 7	N 6	Os 1	0	0
86	l4	1	Total 7	N 6	Os 1	0	0
86	l4	1	Total 7	N 6	Os 1	0	0
86	l5	1	Total 7	N 6	Os 1	0	0
86	l5	1	Total 7	N 6	Os 1	1	0
86	l9	1	Total 7	N 6	Os 1	0	0
86	m0	1	Total 7	N 6	Os 1	0	0
86	m0	1	Total 7	N 6	Os 1	0	0
86	m1	1	Total 7	N 6	Os 1	0	0
86	m4	1	Total 7	N 6	Os 1	0	0
86	m5	1	Total 7	N 6	Os 1	0	0
86	m5	1	Total 7	N 6	Os 1	0	0
86	m5	1	Total 7	N 6	Os 1	0	0
86	m6	1	Total 7	N 6	Os 1	0	0
86	m7	1	Total 7	N 6	Os 1	0	0
86	m8	1	Total 7	N 6	Os 1	0	0
86	m9	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	n3	1	Total	N	Os	0	0
			7	6	1		
86	n9	1	Total	N	Os	0	0
			7	6	1		
86	o3	1	Total	N	Os	0	0
			7	6	1		
86	o6	1	Total	N	Os	0	0
			7	6	1		
86	o7	1	Total	N	Os	0	0
			7	6	1		
86	o7	1	Total	N	Os	0	0
			7	6	1		
86	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 87 is ZINC ION (CCD ID: ZN) (formula: Zn).

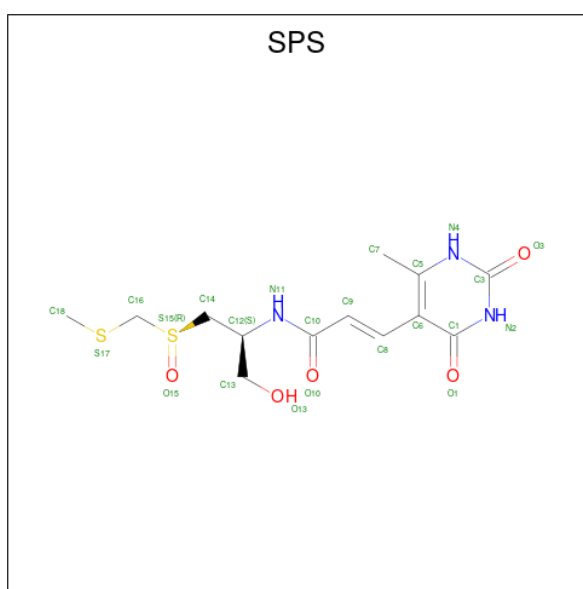
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	D6	1	Total	Zn	0	0
			1	1		
87	D7	1	Total	Zn	0	0
			1	1		
87	D9	1	Total	Zn	0	0
			1	1		
87	E1	1	Total	Zn	0	0
			1	1		
87	O7	1	Total	Zn	0	0
			1	1		
87	Q0	1	Total	Zn	0	0
			1	1		
87	Q2	1	Total	Zn	0	0
			1	1		
87	Q3	1	Total	Zn	0	0
			1	1		
87	d6	1	Total	Zn	0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

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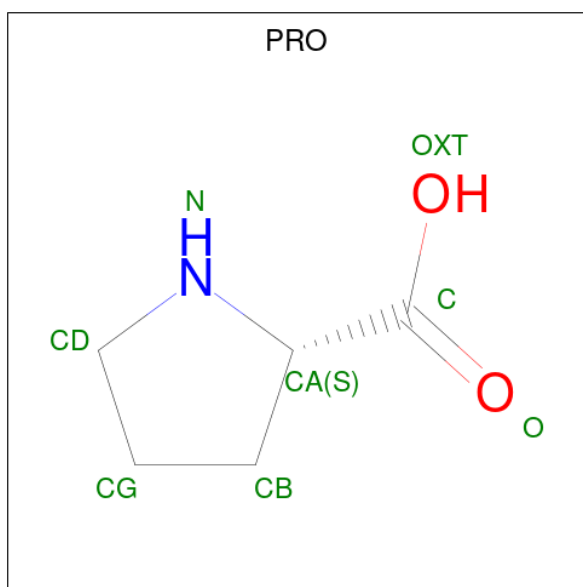
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	o7	1	Total	Zn	0	0
			1	1		
87	q0	1	Total	Zn	0	0
			1	1		
87	q2	1	Total	Zn	0	0
			1	1		
87	q3	1	Total	Zn	0	0
			1	1		

- Molecule 88 is SPARSOMYCIN (CCD ID: SPS) (formula: $C_{13}H_{19}N_3O_5S_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
88	1	1	Total	C	N	O	S	0	0
			23	13	3	5	2		
88	5	1	Total	C	N	O	S	0	0
			23	13	3	5	2		

- Molecule 89 is PROLINE (CCD ID: PRO) (formula: $C_5H_9NO_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
89	1	1	Total	C	N	O	0	0
			7	5	1	1		
89	5	1	Total	C	N	O	0	0
			7	5	1	1		
89	B	1	Total	C	N	O	0	0
			7	5	1	1		
89	C	1	Total	C	N	O	0	0
			7	5	1	1		

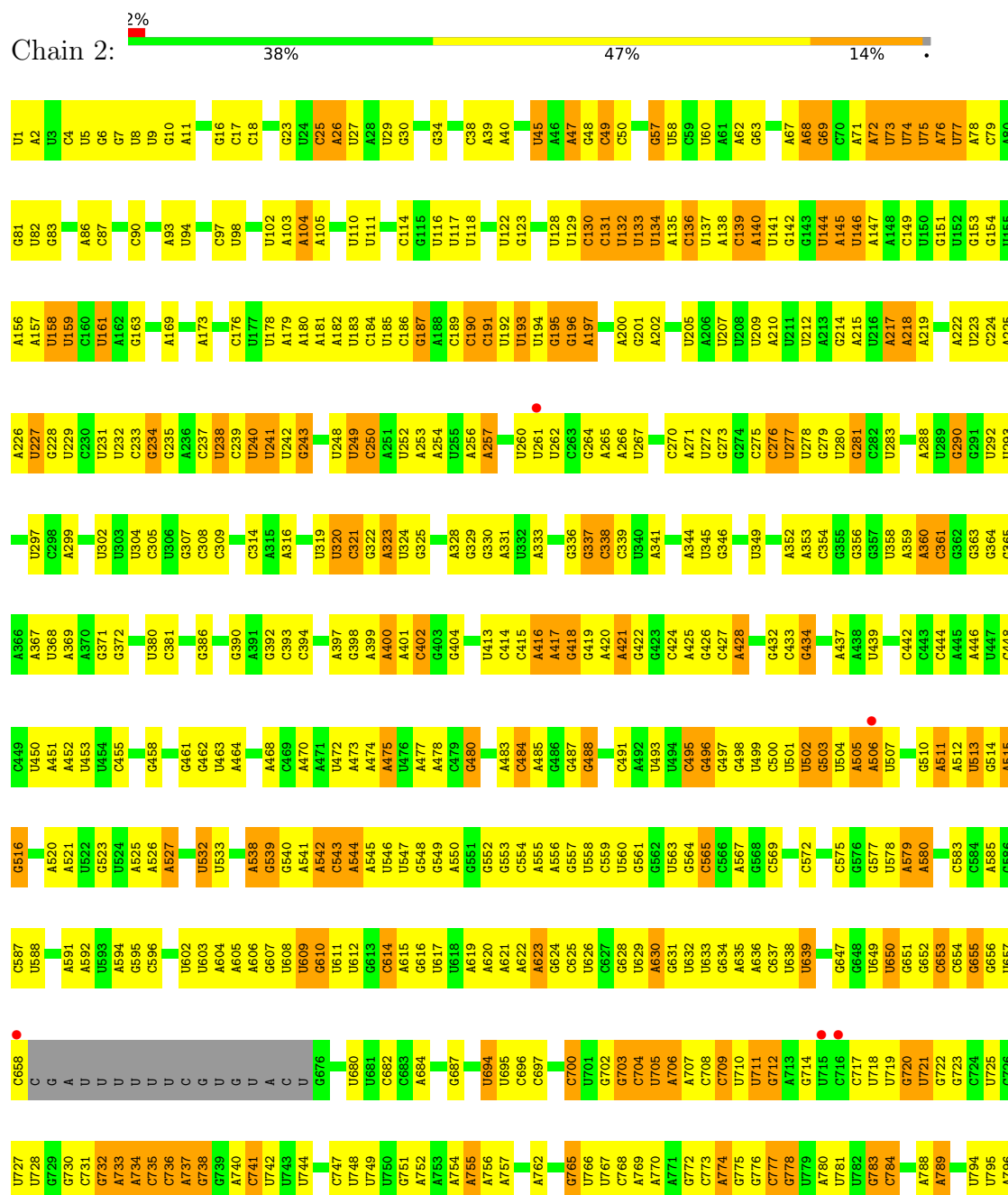
- Molecule 90 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
90	5	6	Total	O	0	0
			6	6		
90	f	6	Total	O	0	0
			6	6		

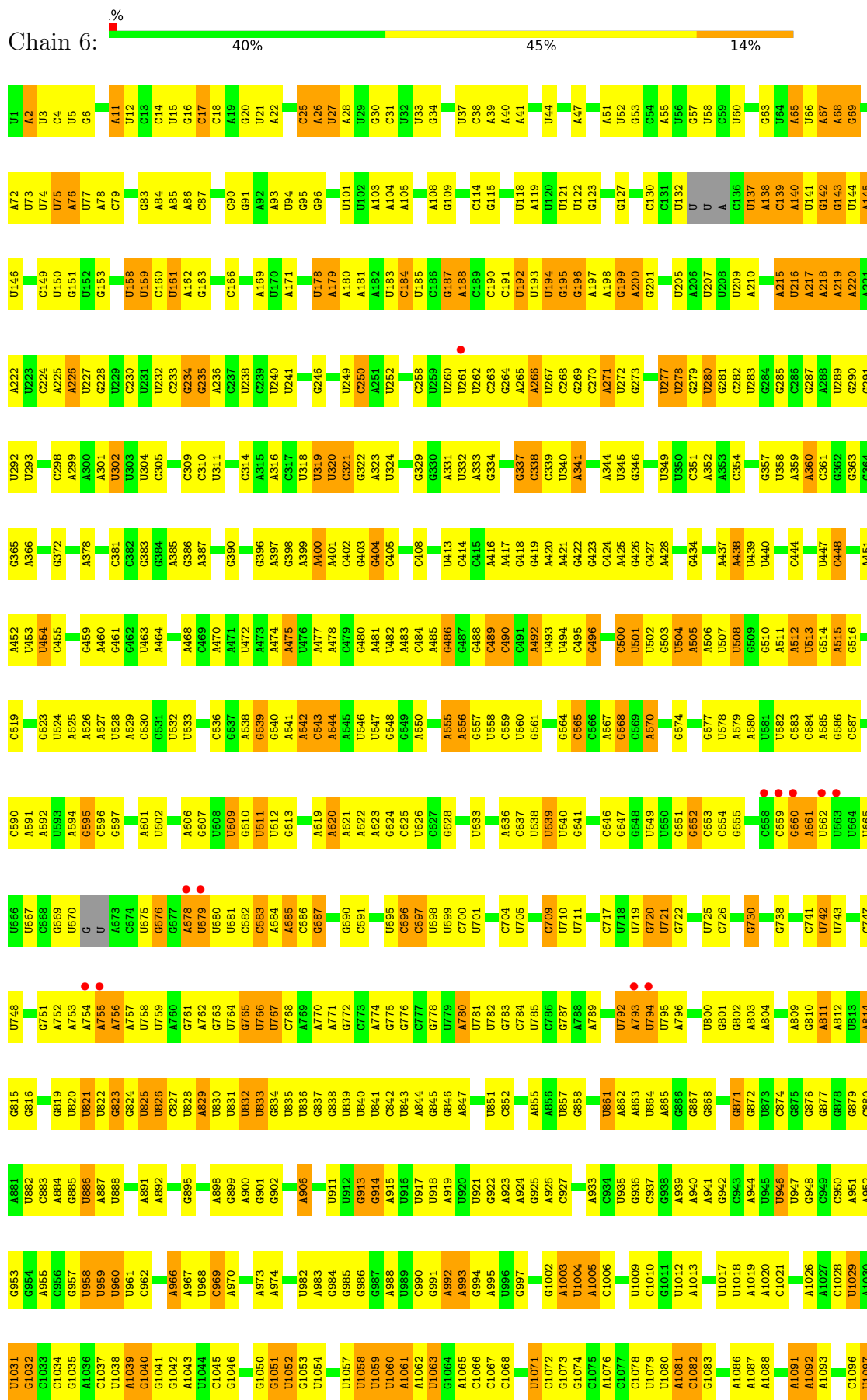
3 Residue-property plots

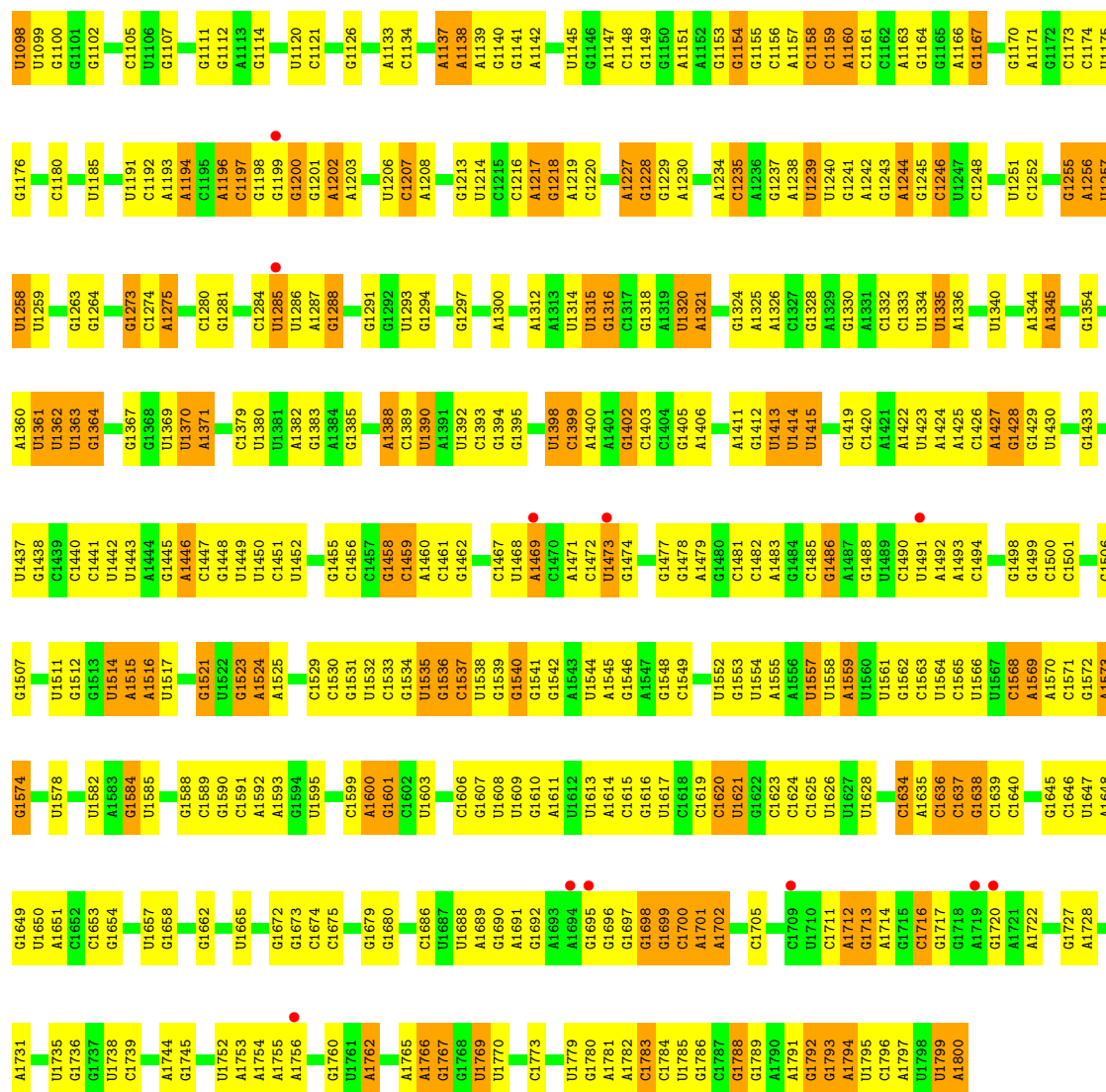
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 18S ribosomal RNA

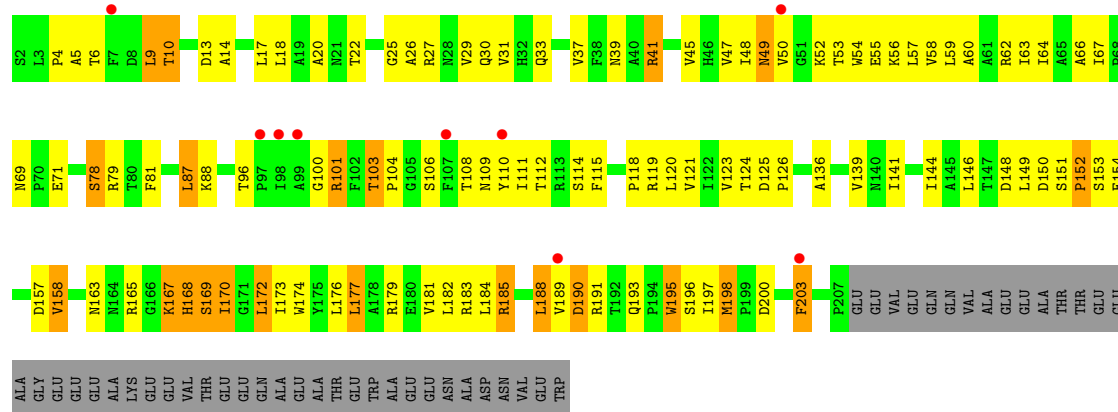


U1769	U1770	C1773	G1774	U1775	A1776	G1777	G1778	U1779	G1780	A1781	G1782	C1783	G1784	U1785	G1786	G1787	G1788	G1789	G1792	G1793	A1794	U1795	C1796	A1797	U1798	U	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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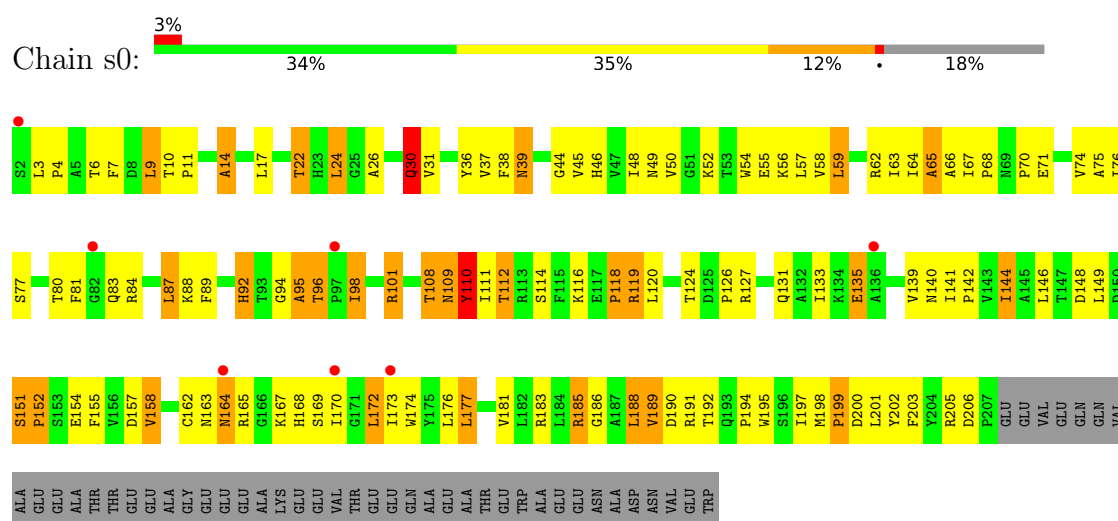




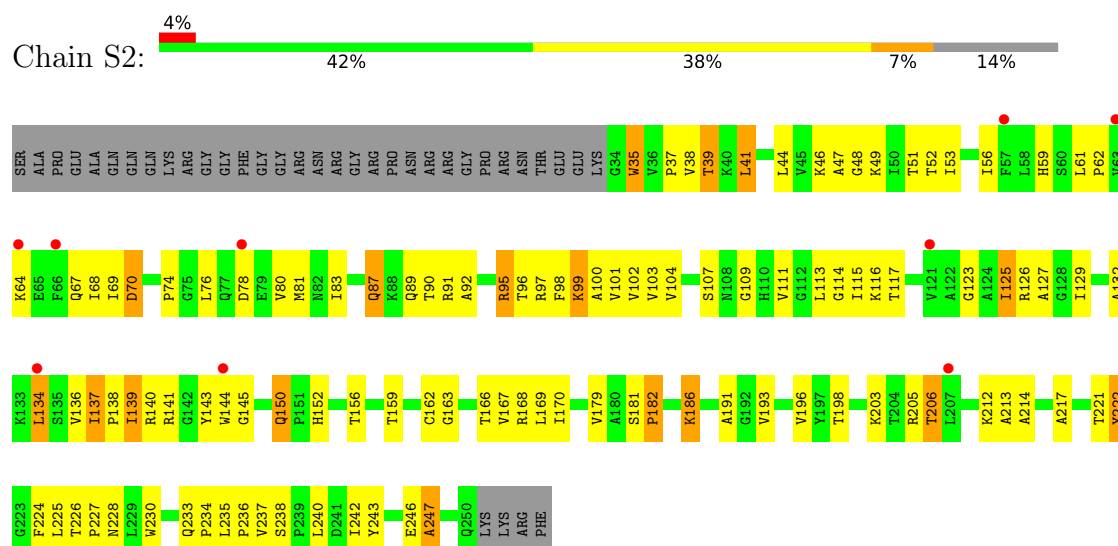
- Molecule 2: 40S ribosomal protein S0-A



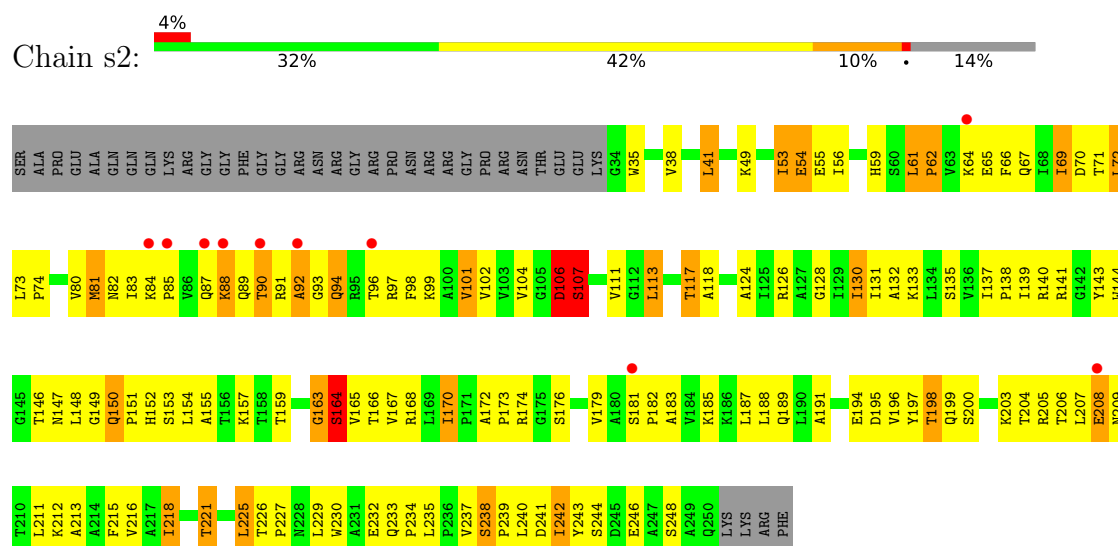
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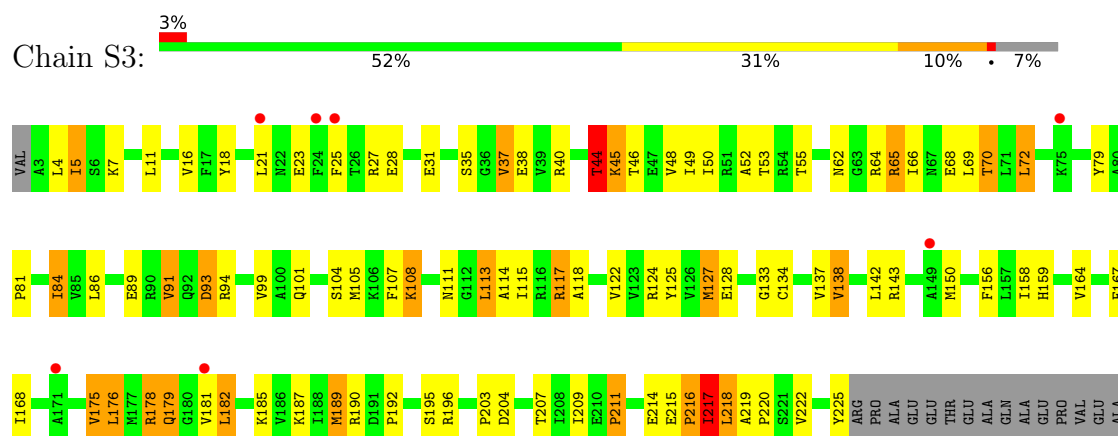
- Molecule 4: 40S ribosomal protein S2



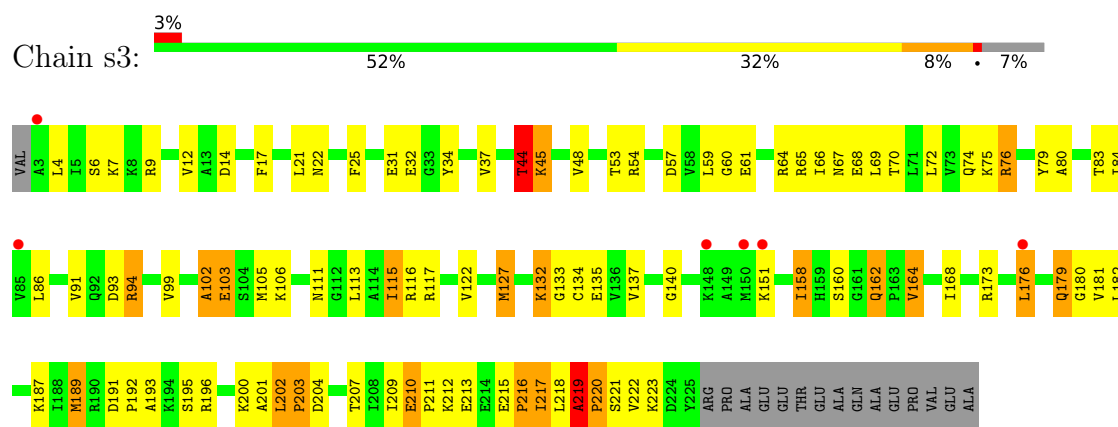
- Molecule 4: 40S ribosomal protein S2



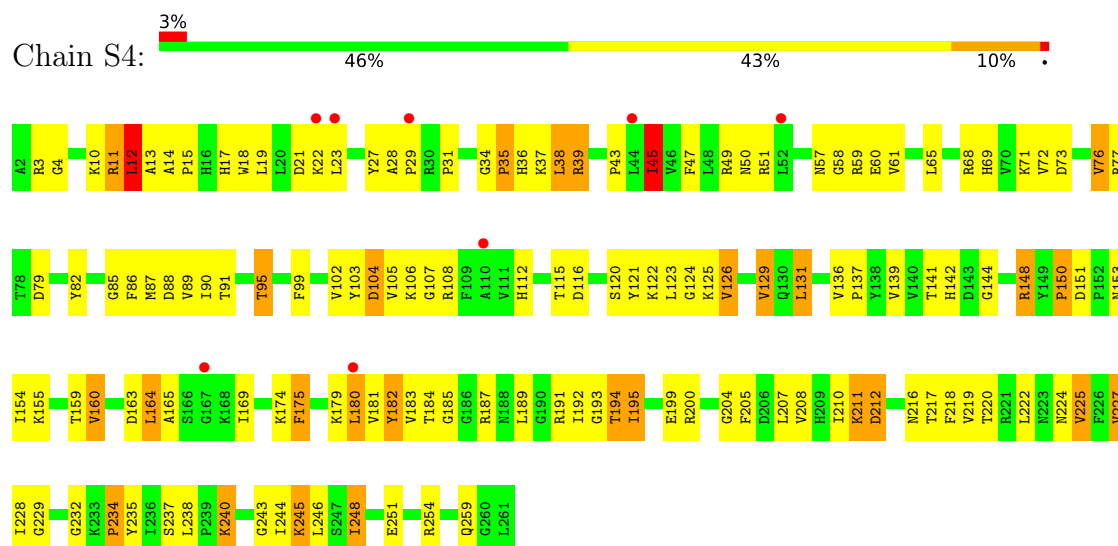
- Molecule 5: 40S ribosomal protein S3



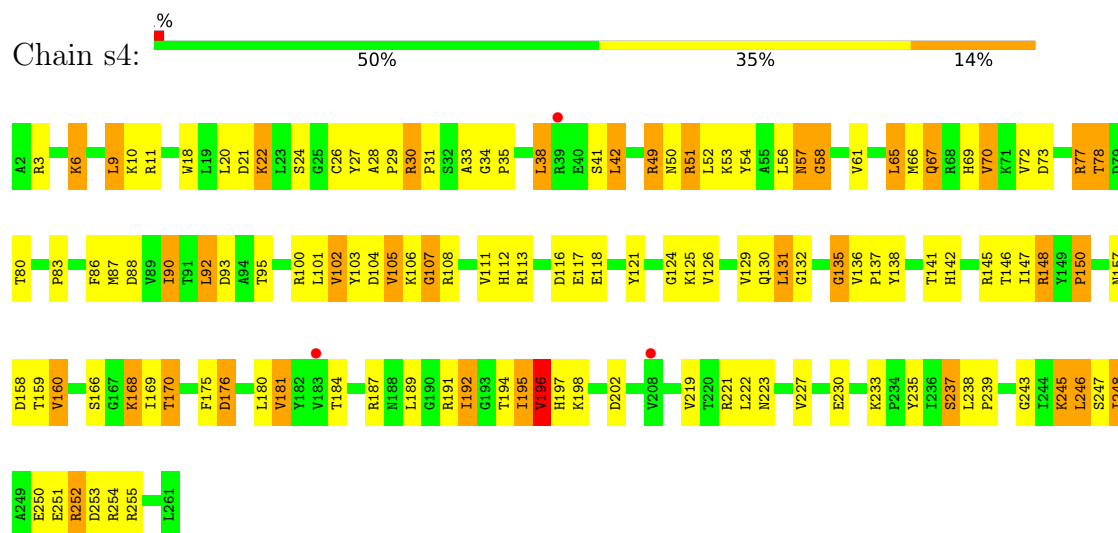
- Molecule 5: 40S ribosomal protein S3



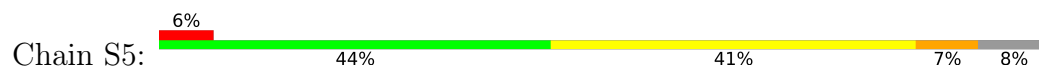
• Molecule 6: 40S ribosomal protein S4-A

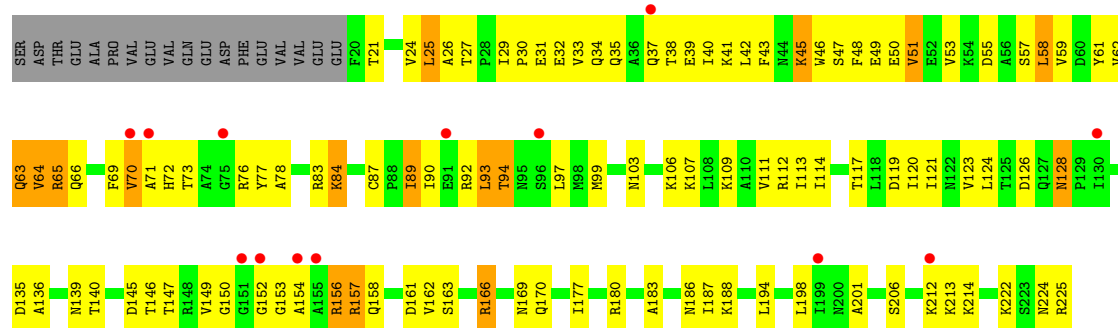


• Molecule 6: 40S ribosomal protein S4-A

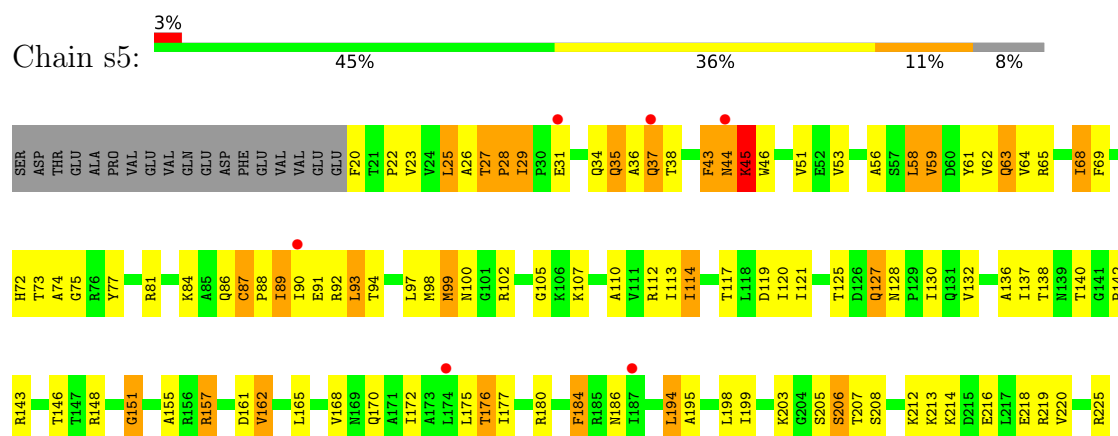


• Molecule 7: 40S ribosomal protein S5

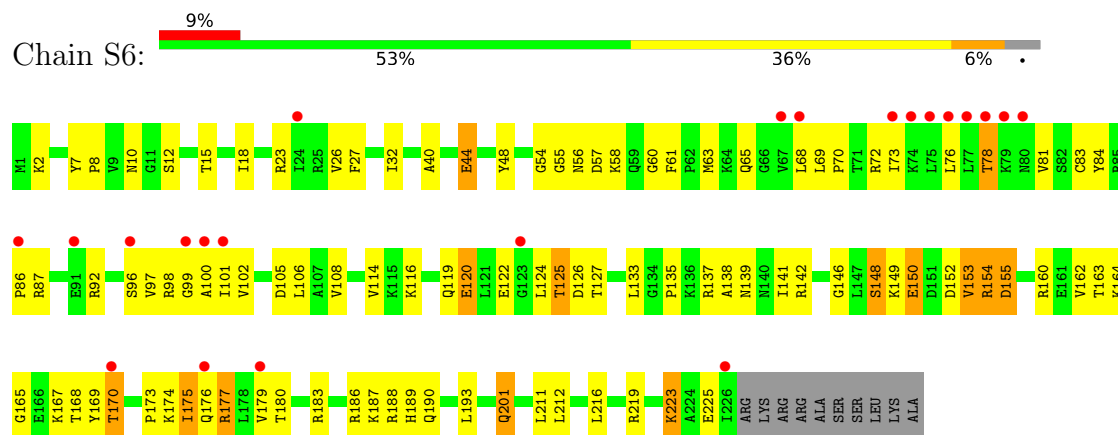




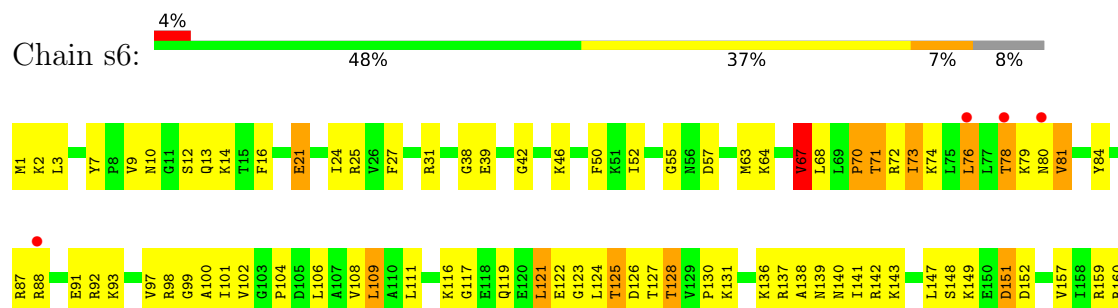
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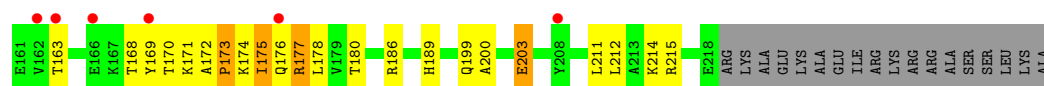


• Molecule 8: 40S ribosomal protein S6-A

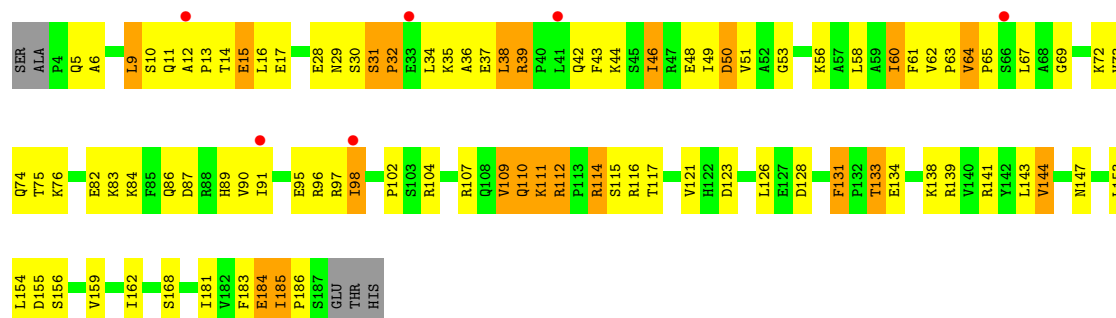


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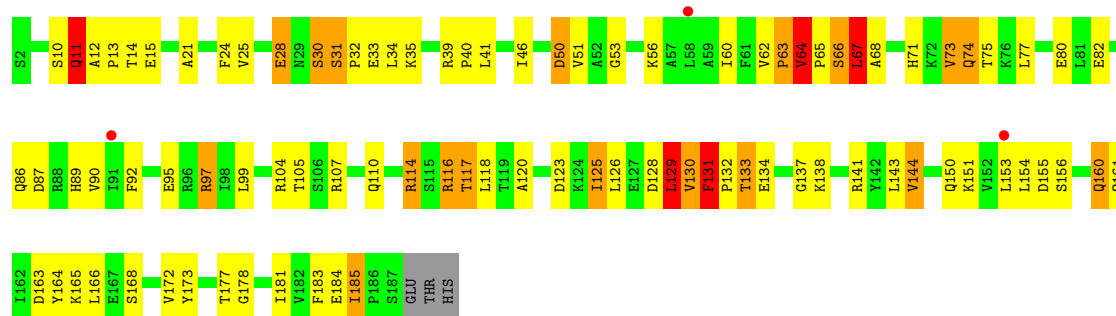




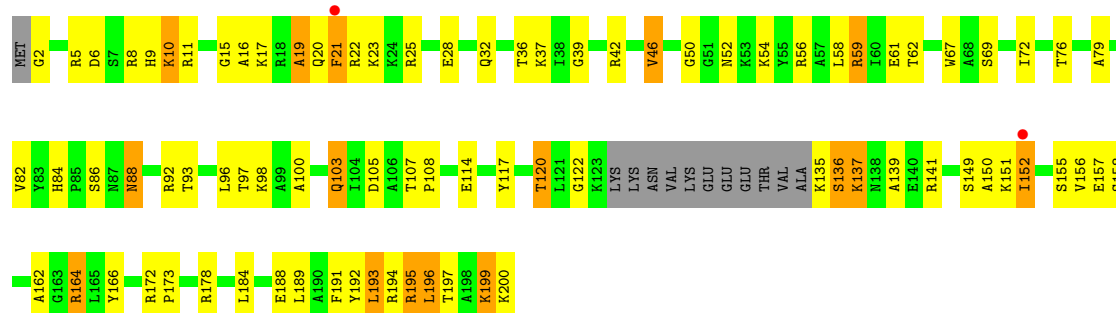
• Molecule 9: 40S ribosomal protein S7-A



• Molecule 9: 40S ribosomal protein S7-A

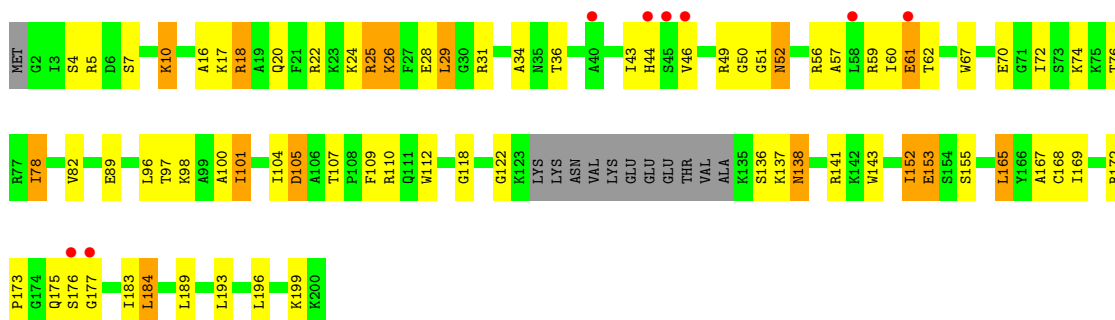


• Molecule 10: 40S ribosomal protein S8-A

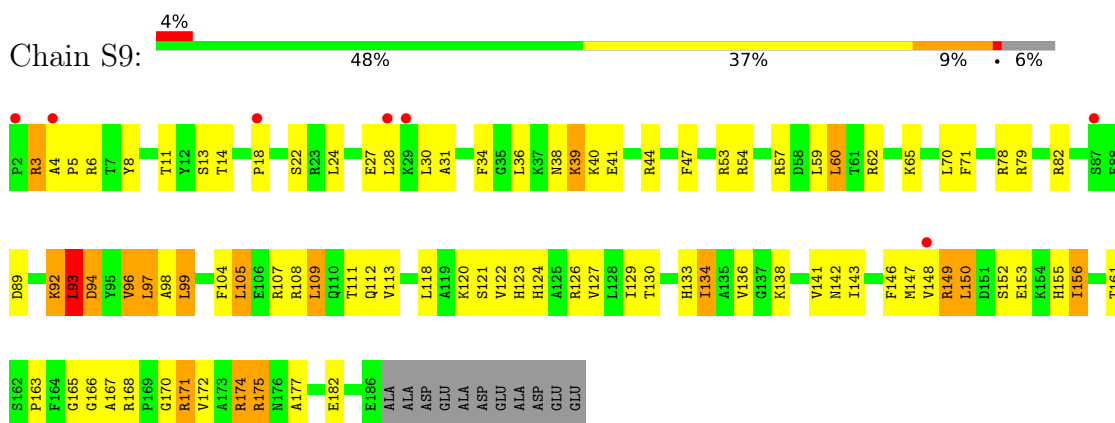


• Molecule 10: 40S ribosomal protein S8-A

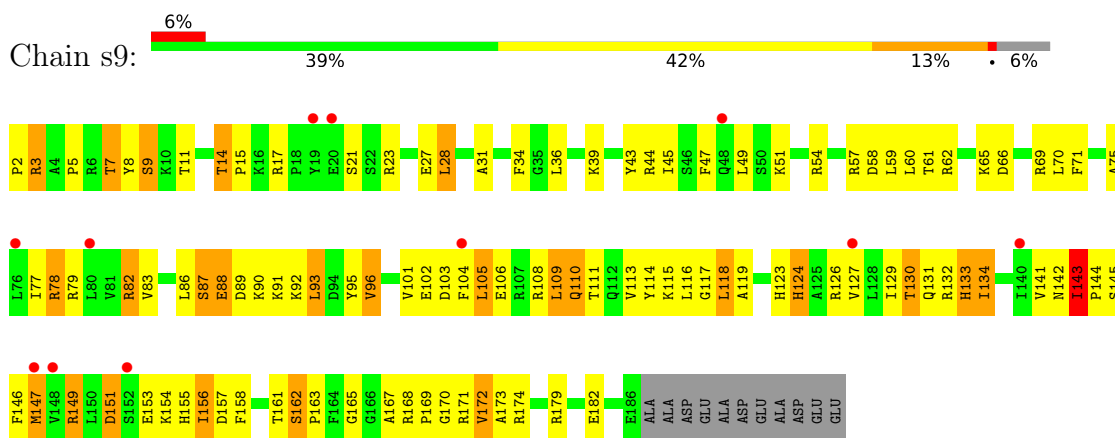




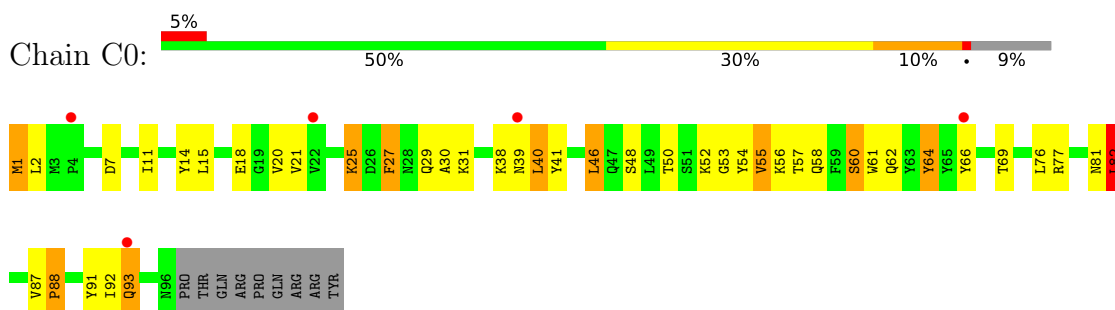
• Molecule 11: 40S ribosomal protein S9-A



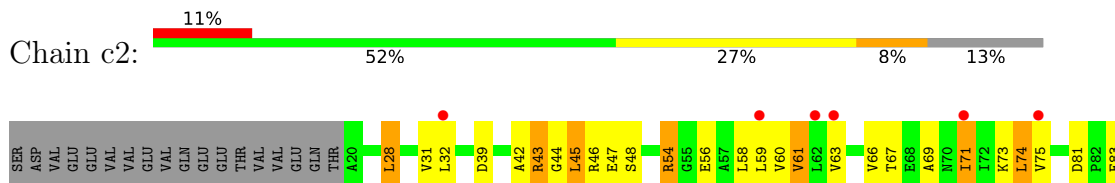
• Molecule 11: 40S ribosomal protein S9-A



• Molecule 12: 40S ribosomal protein S10-A

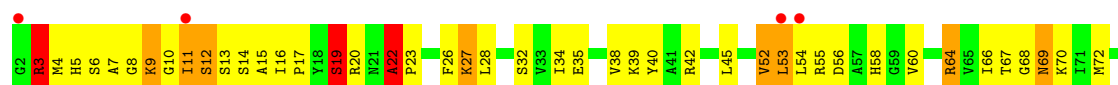


• Molecule 12: 40S ribosomal protein S10-A





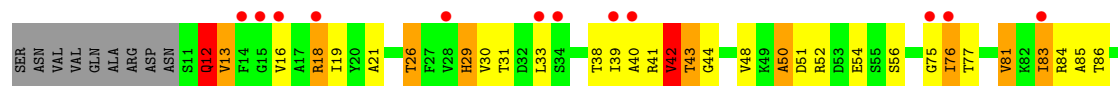
- Molecule 15: 40S ribosomal protein S13



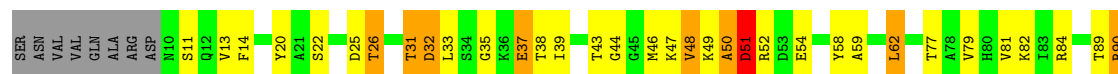
- Molecule 15: 40S ribosomal protein S13



- Molecule 16: 40S ribosomal protein S14-A

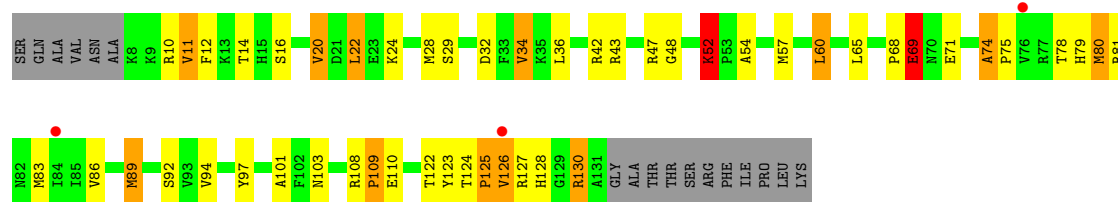


- Molecule 16: 40S ribosomal protein S14-A

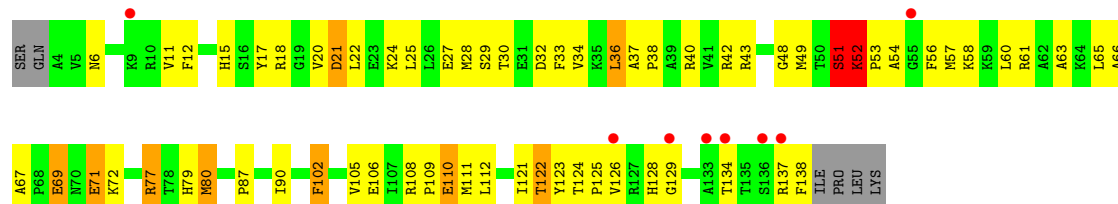


- Molecule 17: 40S ribosomal protein S15

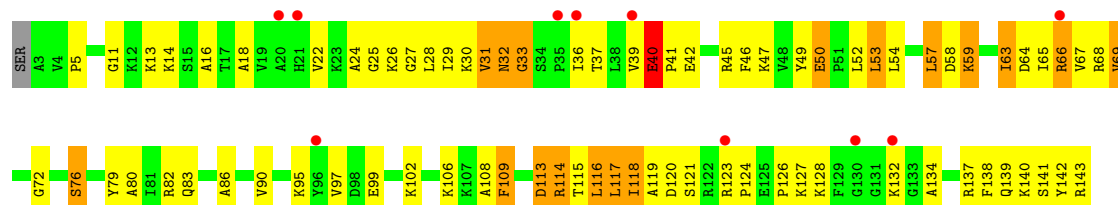
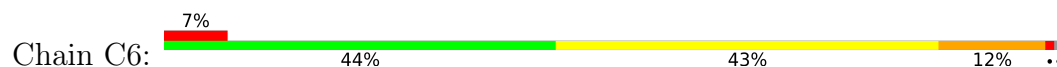




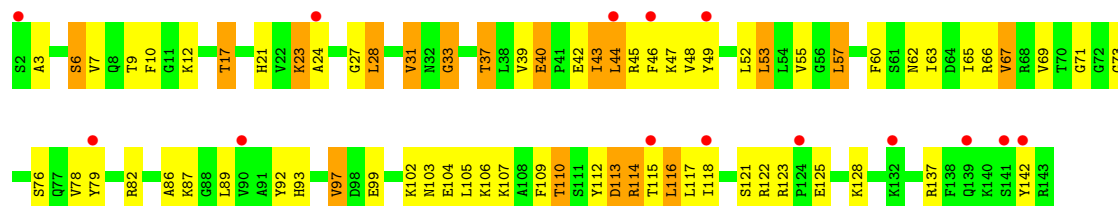
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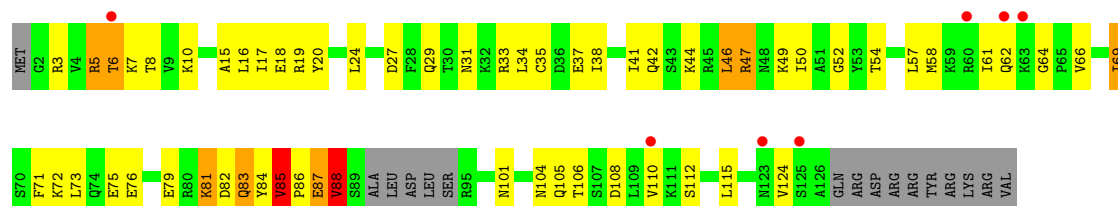
• Molecule 18: 40S ribosomal protein S16-A



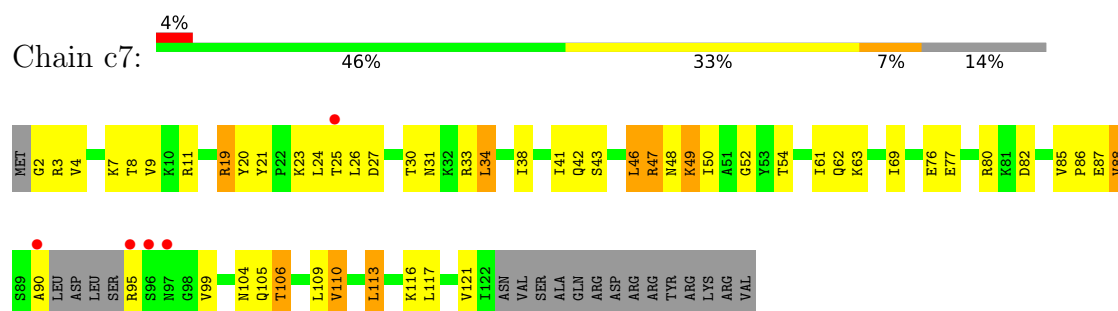
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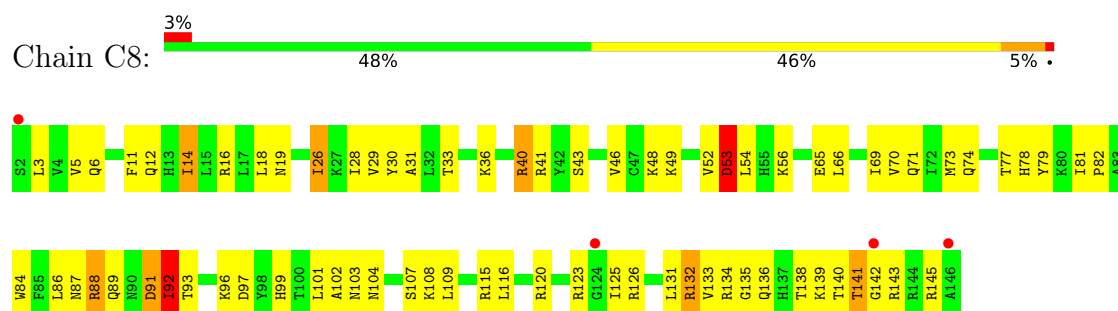
• Molecule 19: 40S ribosomal protein S17-A



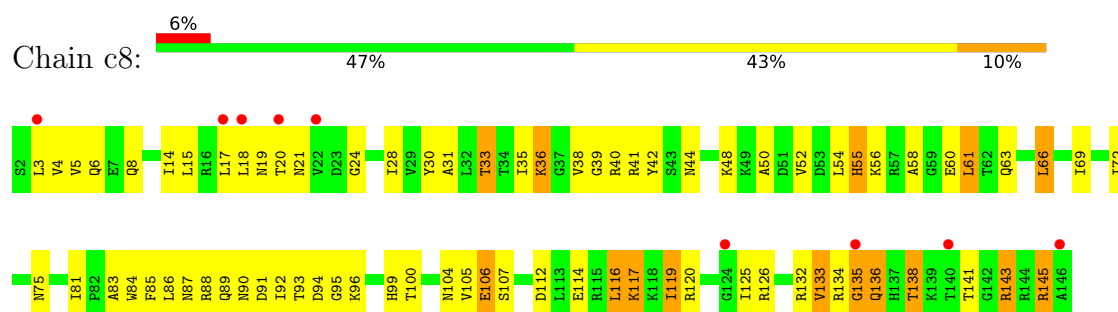
- Molecule 19: 40S ribosomal protein S17-A



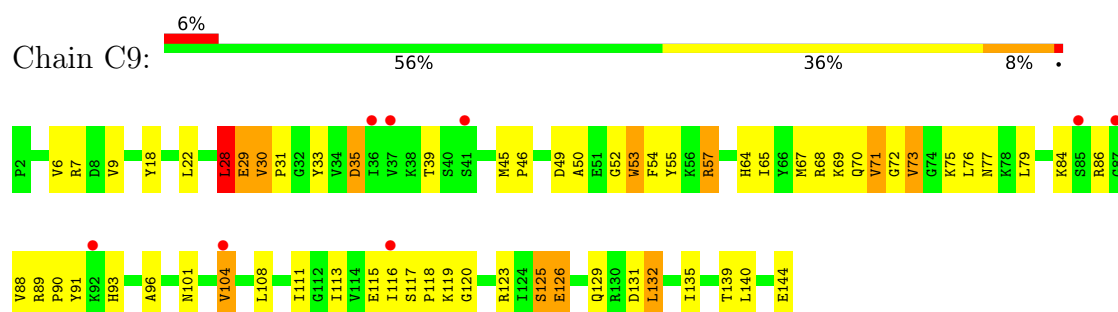
- Molecule 20: 40S ribosomal protein S18-A



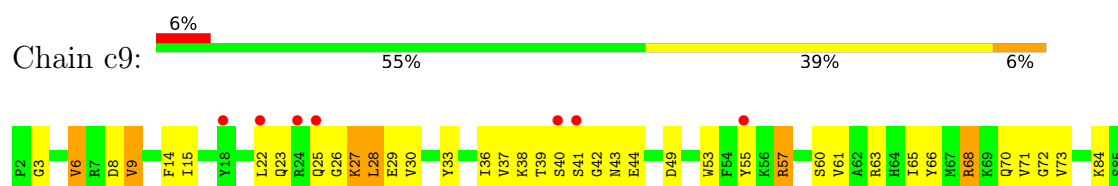
- Molecule 20: 40S ribosomal protein S18-A



- Molecule 21: 40S ribosomal protein S19-A

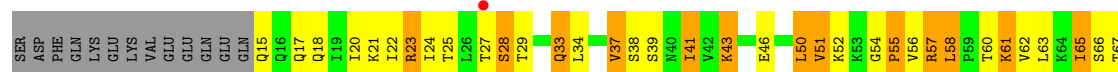


- Molecule 21: 40S ribosomal protein S19-A

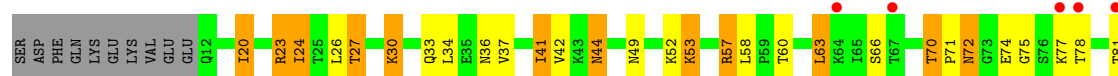




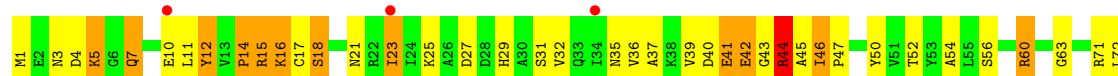
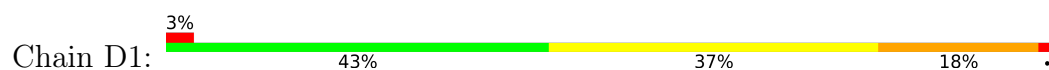
- Molecule 22: 40S ribosomal protein S20



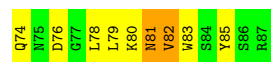
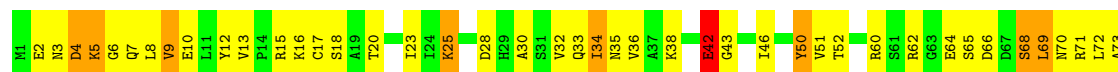
- Molecule 22: 40S ribosomal protein S20



- Molecule 23: 40S ribosomal protein S21-A



- Molecule 23: 40S ribosomal protein S21-A



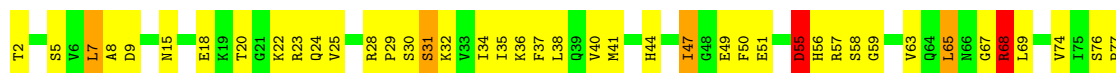
- Molecule 24: 40S ribosomal protein S22-A





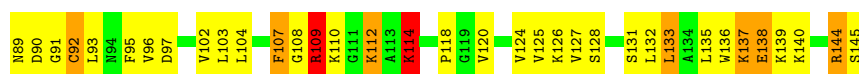
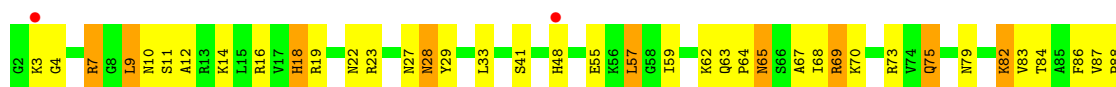
• Molecule 24: 40S ribosomal protein S22-A

Chain d2: 49% 42% 8% .



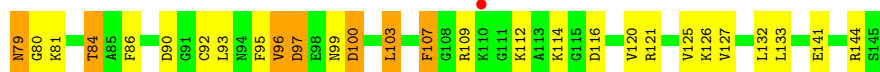
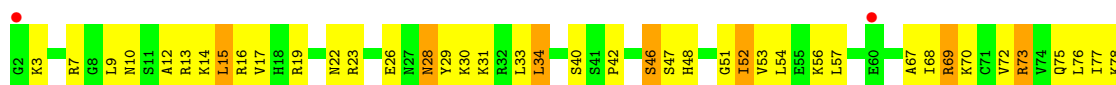
• Molecule 25: 40S ribosomal protein S23-A

Chain D3: 49% 39% 11% .



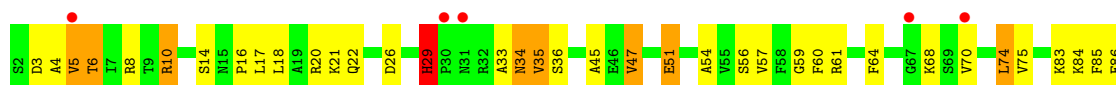
• Molecule 25: 40S ribosomal protein S23-A

Chain d3: 2% 52% 38% 10%

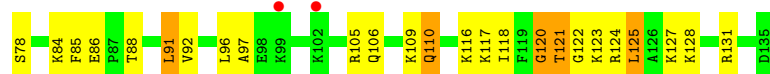
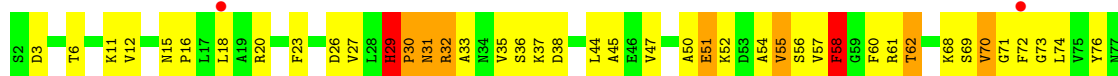


• Molecule 26: 40S ribosomal protein S24-A

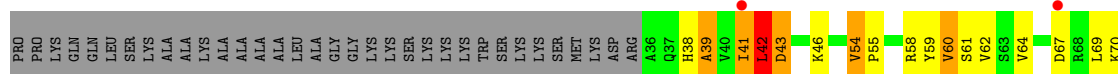
Chain D4: 5% 57% 34% 9% .



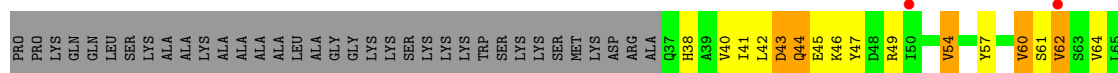
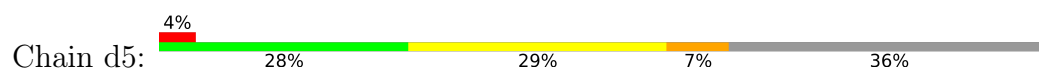
• Molecule 26: 40S ribosomal protein S24-A



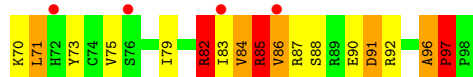
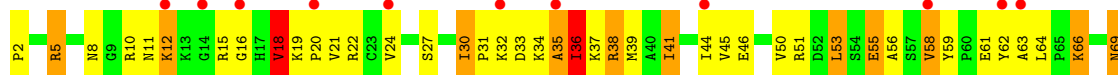
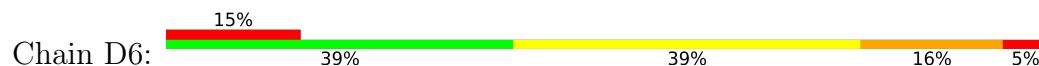
• Molecule 27: 40S ribosomal protein S25-A



• Molecule 27: 40S ribosomal protein S25-A



• Molecule 28: 40S ribosomal protein S26-A



• Molecule 28: 40S ribosomal protein S26-A

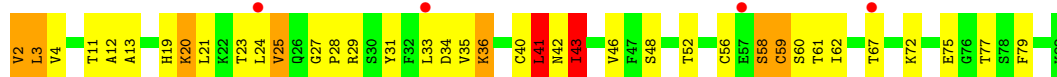




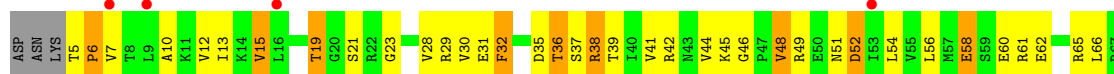
- Molecule 29: 40S ribosomal protein S27-A



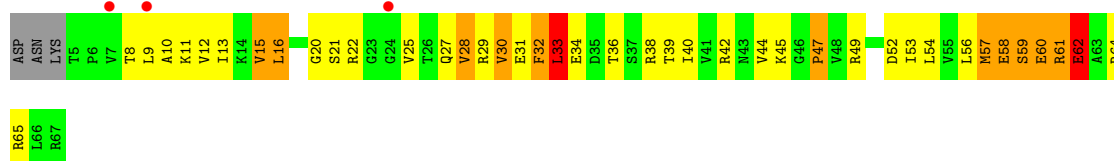
- Molecule 29: 40S ribosomal protein S27-A



- Molecule 30: 40S ribosomal protein S28-A



- Molecule 30: 40S ribosomal protein S28-A



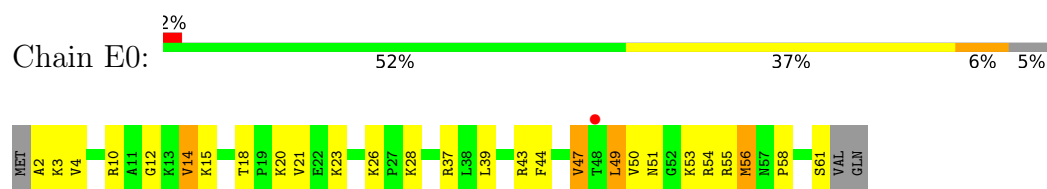
- Molecule 31: 40S ribosomal protein S29-A



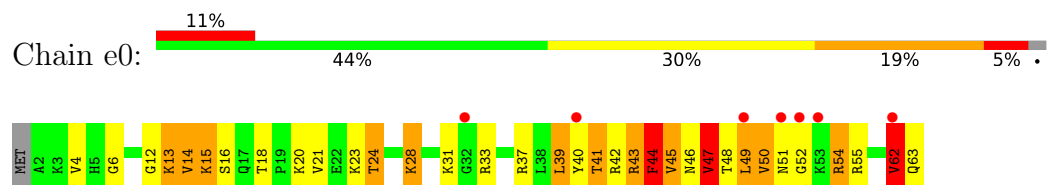
- Molecule 31: 40S ribosomal protein S29-A



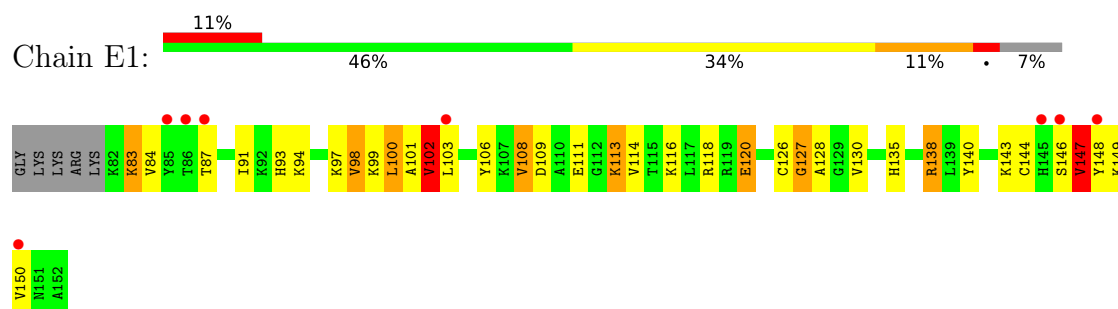
- Molecule 32: 40S ribosomal protein S30-A



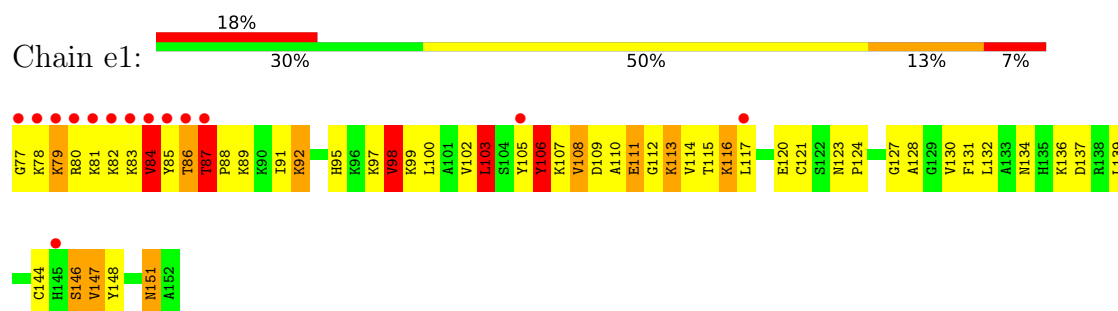
- Molecule 32: 40S ribosomal protein S30-A



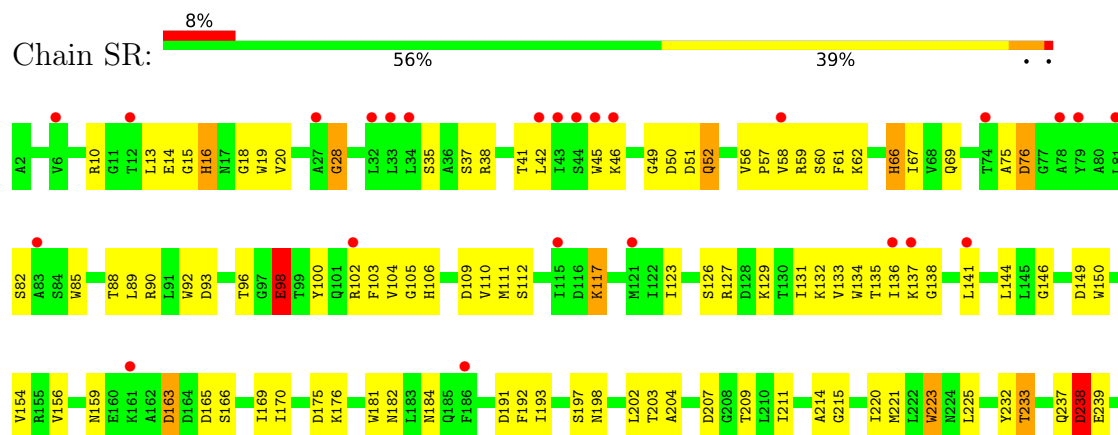
- Molecule 33: Ubiquitin-40S ribosomal protein S31



- Molecule 33: Ubiquitin-40S ribosomal protein S31

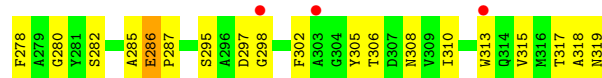
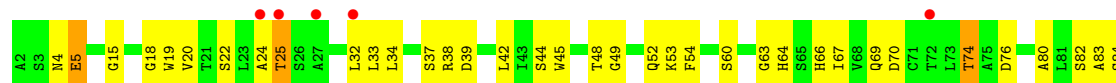


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

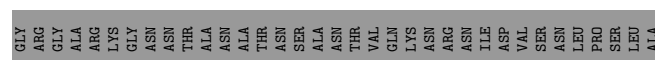
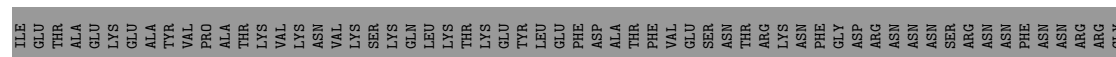
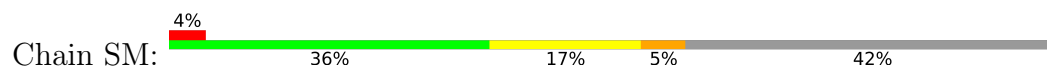




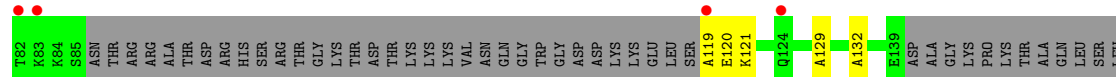
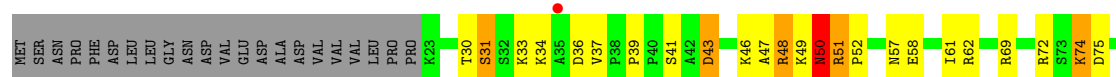
- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

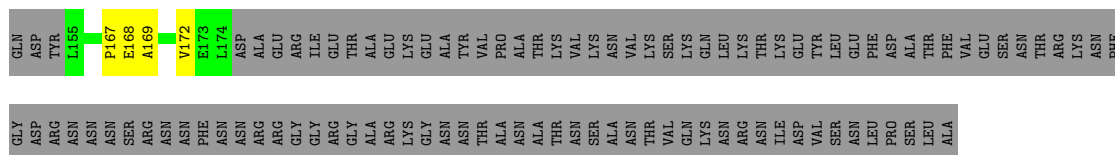


- Molecule 35: Suppressor protein STM1

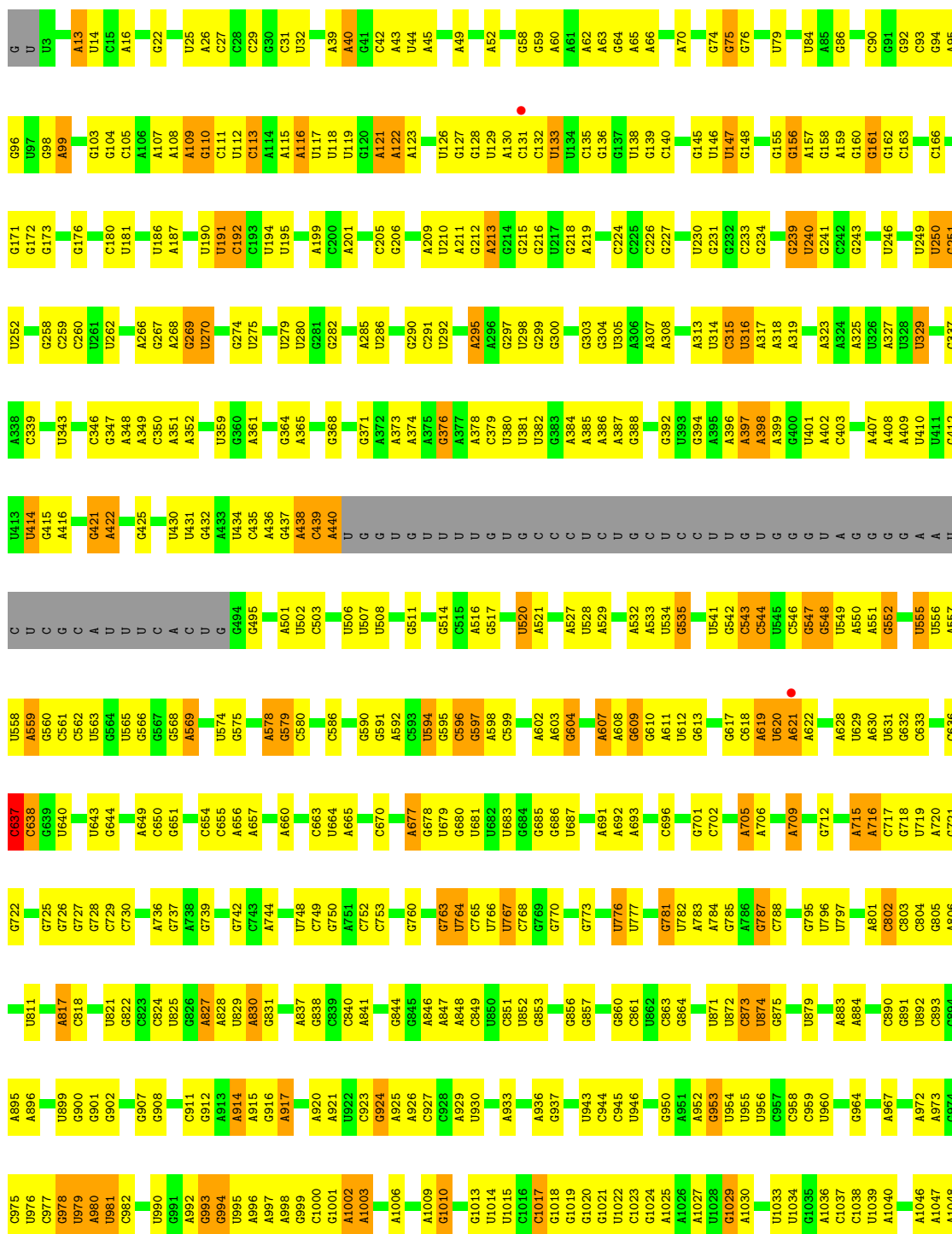


- Molecule 35: Suppressor protein STM1



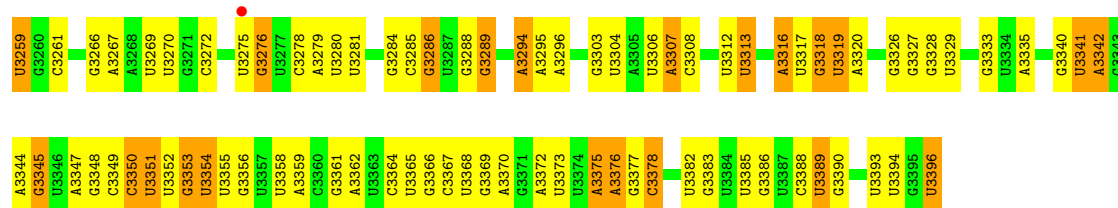


- Molecule 36: 25S ribosomal RNA

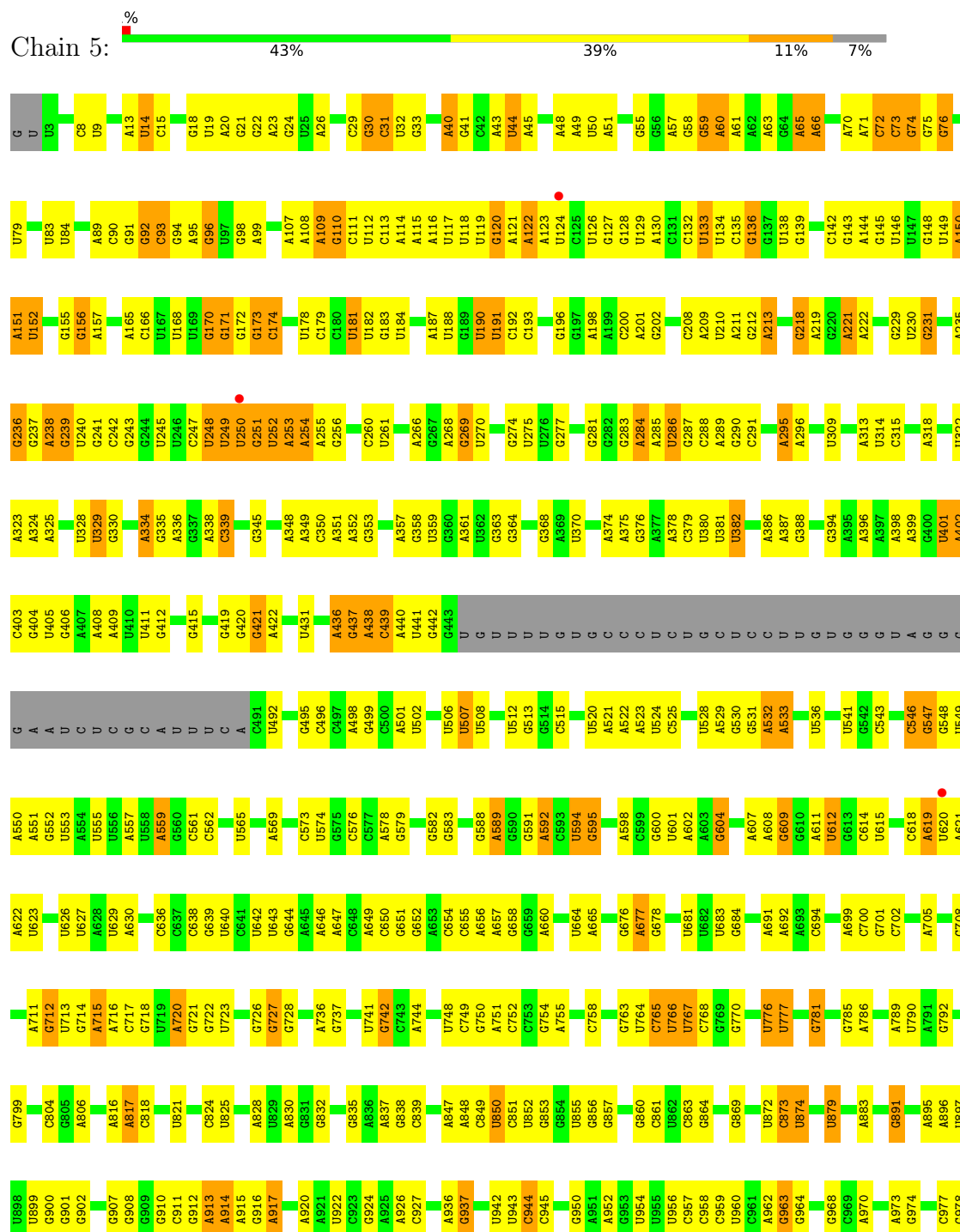




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U3105	G2964	U3041	A3040	G2964	G2879	U2795	G2714	G2645	A2554	U	U2423	A2348	U2265	C2196
A3180	A2969	U3042	C3043	A2969	C2881	U2796	U2716	C2646	C2556	C	G2425	C2350	U2267	C2197
C3181	C2970	U3043	G3044	C2970	U2882	U2797	U2719	U2652	C2560	A	U2428	C2354	U2269	G2201
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A3188	U2974	U3048	U3048	U2974	A2804	A2804	C2727	U2658	C2567	U	U2436	C2359	G2274	A2206
G3191	G2977	U3049	A3049	G2977	A2808	A2808	A2727	U2659	C2568	U	G2437	A2361	C2278	G2207
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A3196	U2979	G2985	G3053	U2979	C2810	C2810	U2736	U2662	U2570	A	G2440	A2363	A2281	G2210
C3197	U2980	G2985	A2896	G2980	A2811	A2811	C2737	G2663	U2571	U2501	A2443	C2366	C2287	A2213
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C3217	G3003	G3004	G2912	G3003	U2755	U2755	C2756	A2680	G2592	G2522	A	A2389	U2310	A2228
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G3228	U3008	G3009	G2923	U3008	U2688	U2688	U2763	U2689	U2611	C2531	U	G2393	G2316	G2239
G3229	C3008	G3009	G2924	C3008	A2690	A2690	U2767	A2691	U2613	U2532	U	G2394	U2317	G2240
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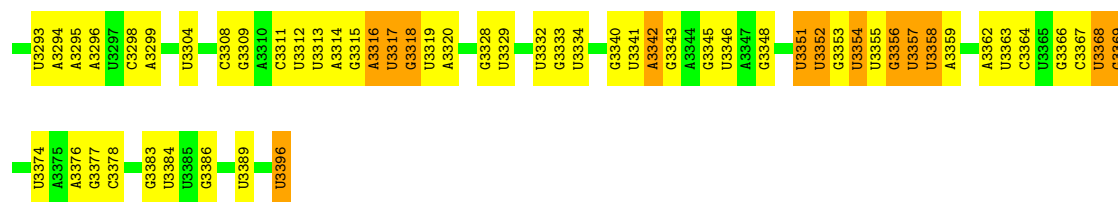


• Molecule 36: 25S ribosomal RNA

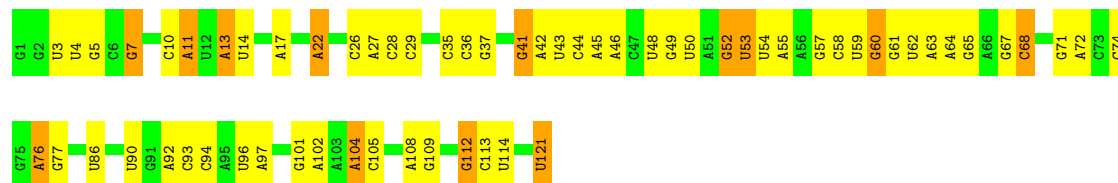




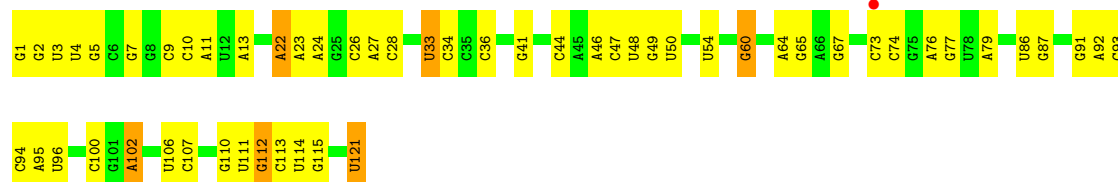




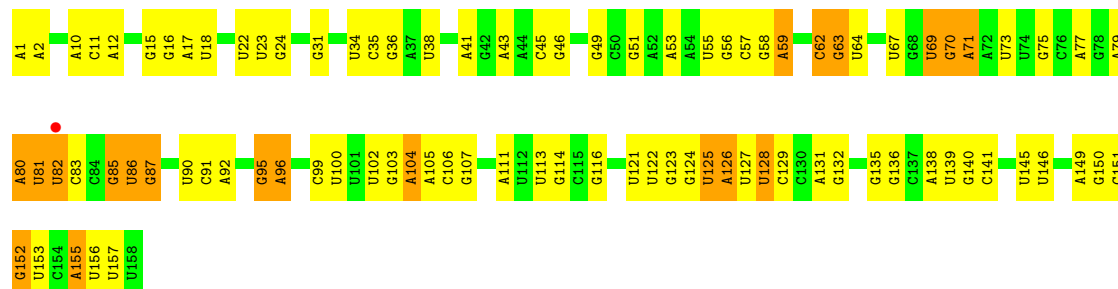
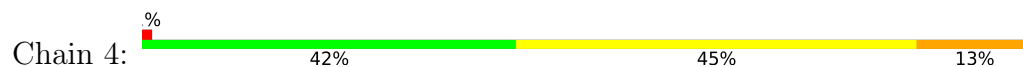
• Molecule 37: 5S ribosomal RNA



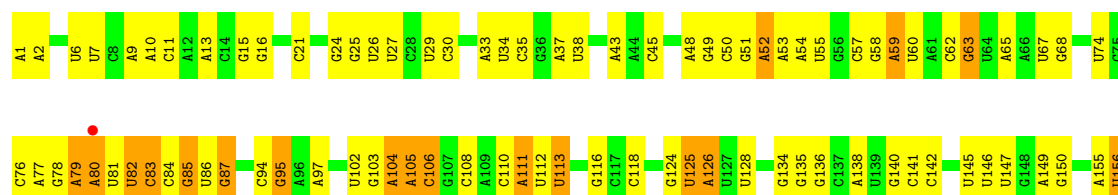
• Molecule 37: 5S ribosomal RNA



• Molecule 38: 5.8S ribosomal RNA

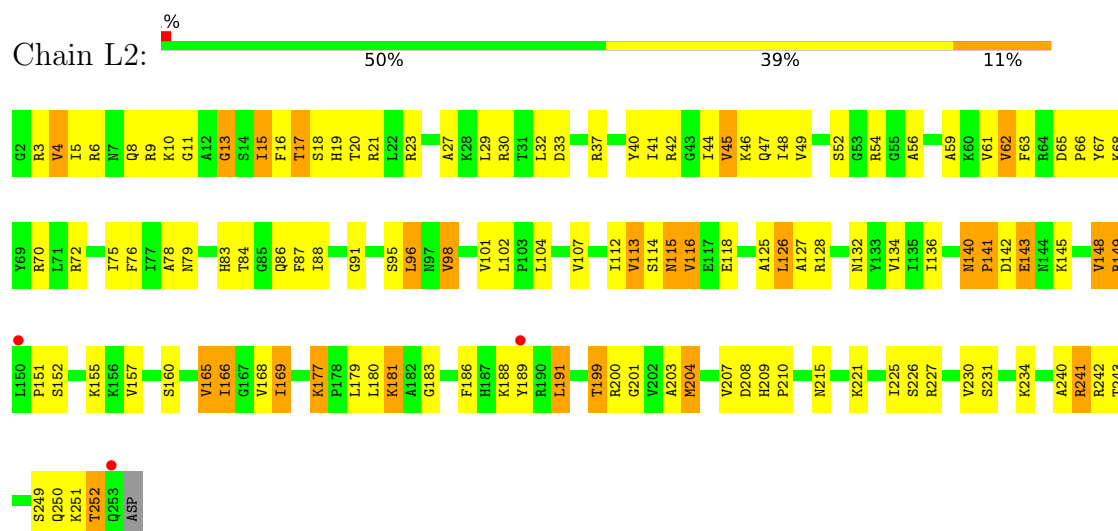


• Molecule 38: 5.8S ribosomal RNA

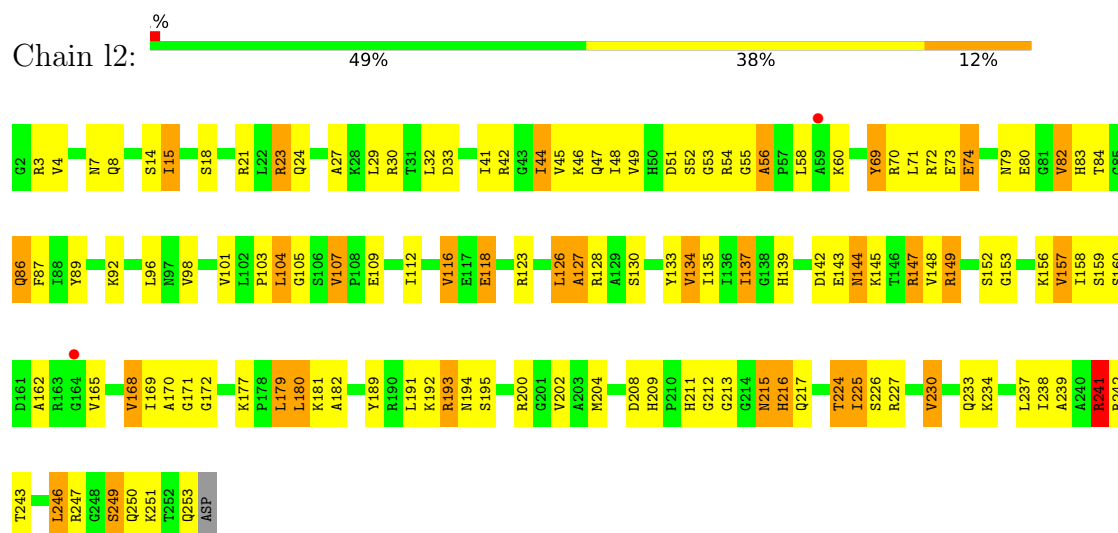


U157
U158

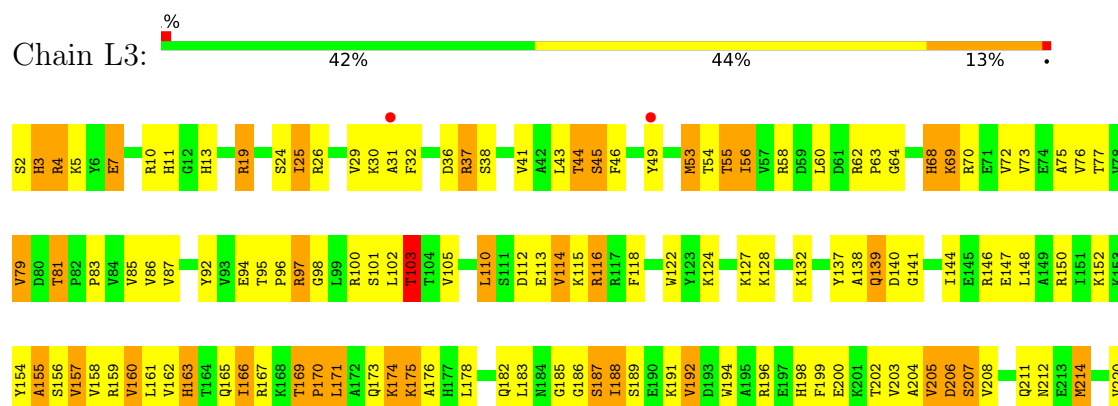
- Molecule 39: 60S ribosomal protein L2-A

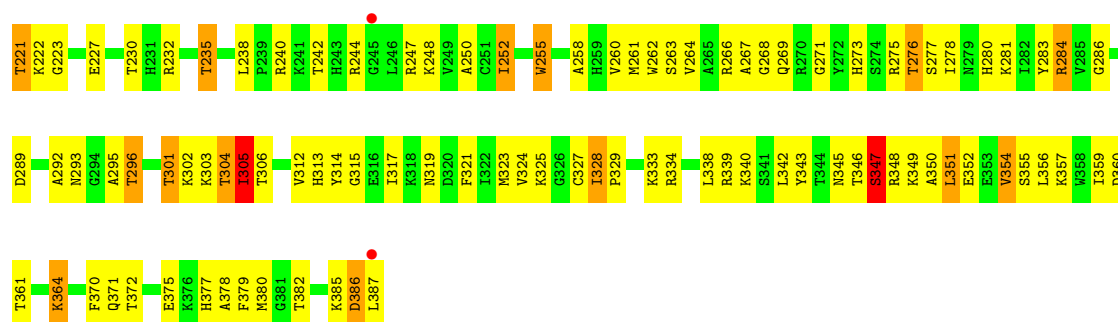


- Molecule 39: 60S ribosomal protein L2-A

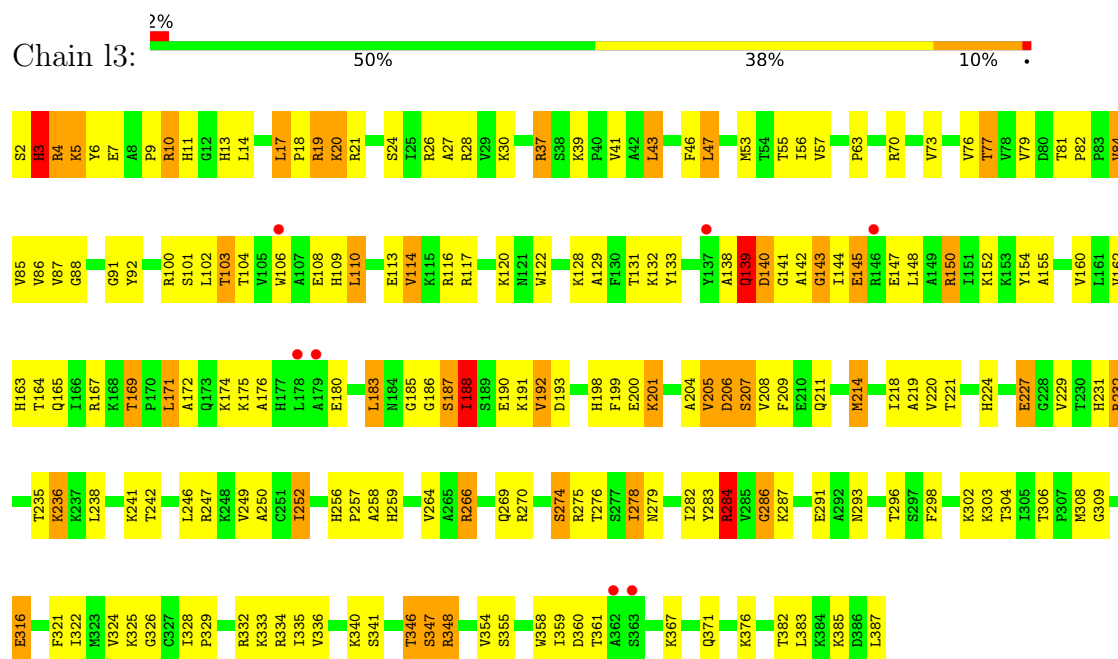


- Molecule 40: 60S ribosomal protein L3

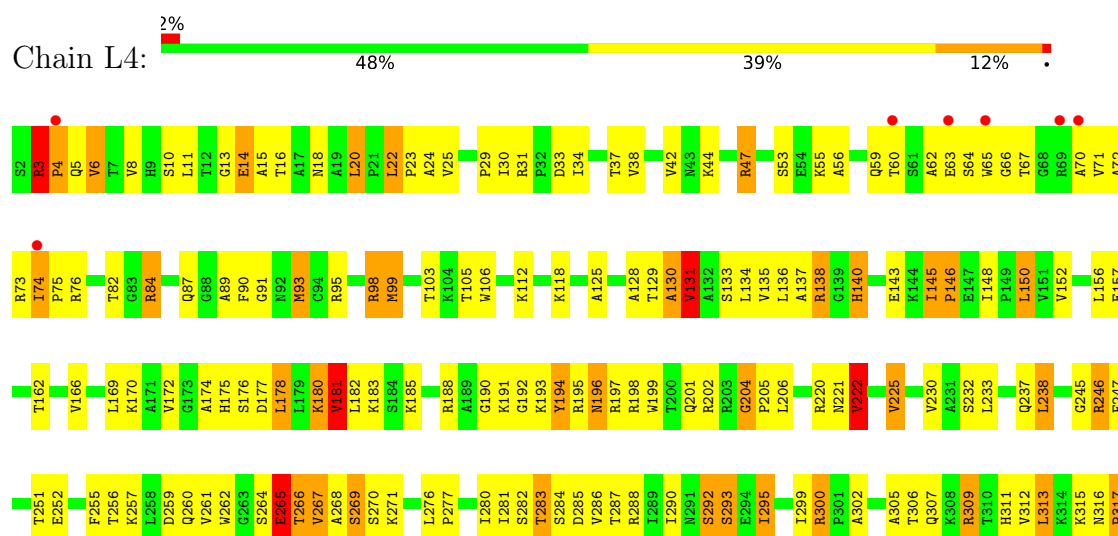


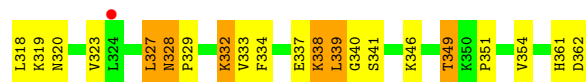


• Molecule 40: 60S ribosomal protein L3

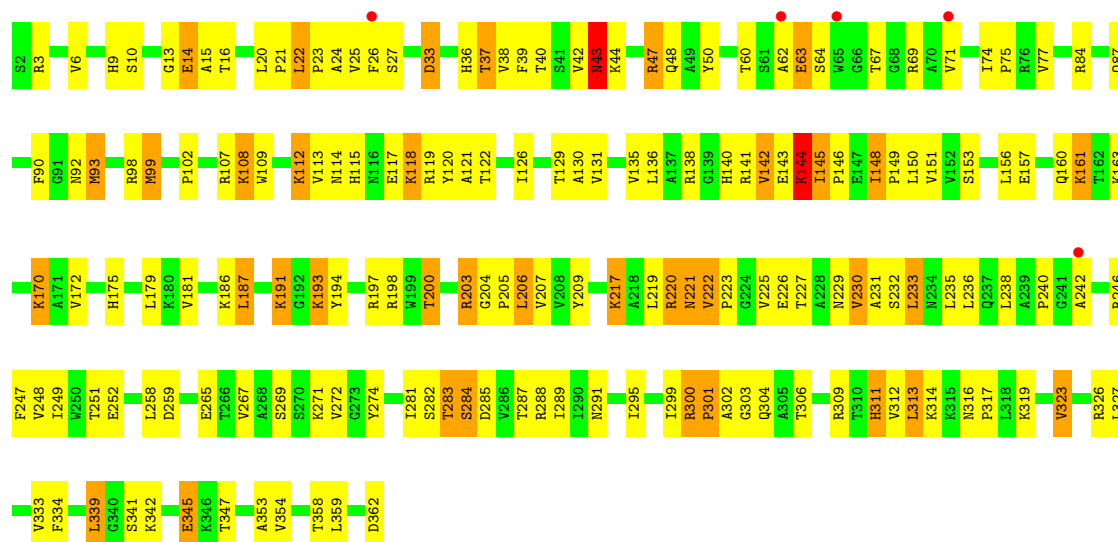


• Molecule 41: 60S ribosomal protein L4-A

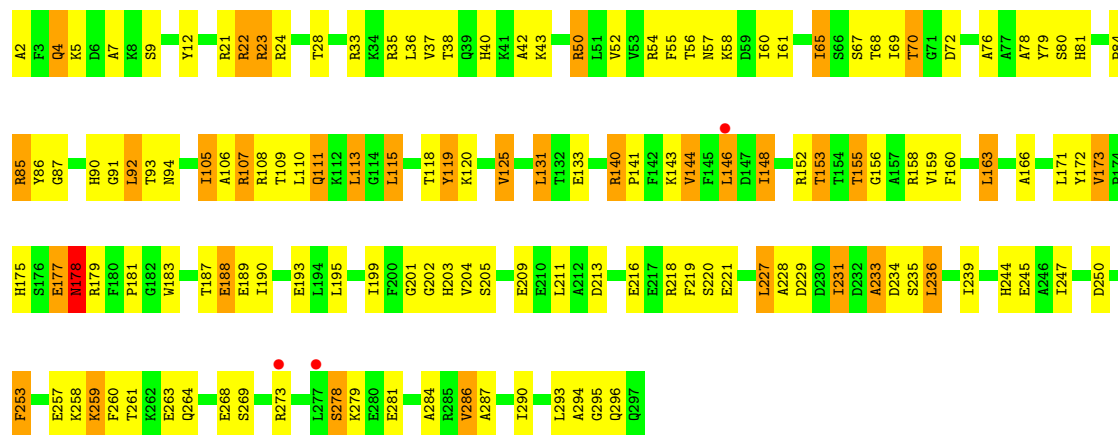




• Molecule 41: 60S ribosomal protein L4-A

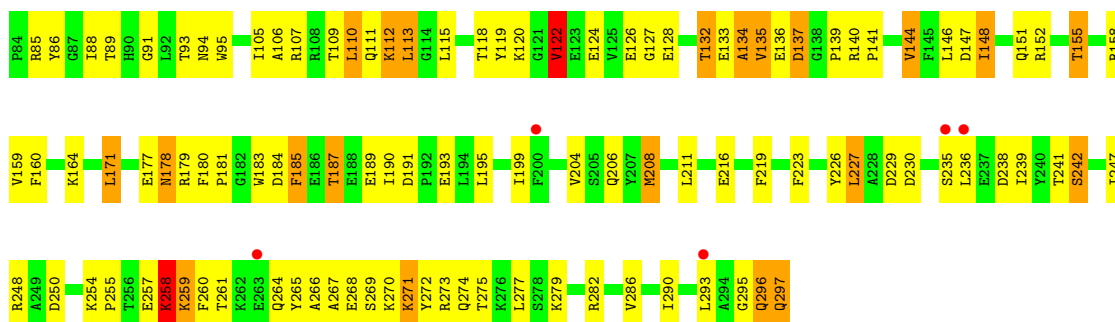


• Molecule 42: 60S ribosomal protein L5

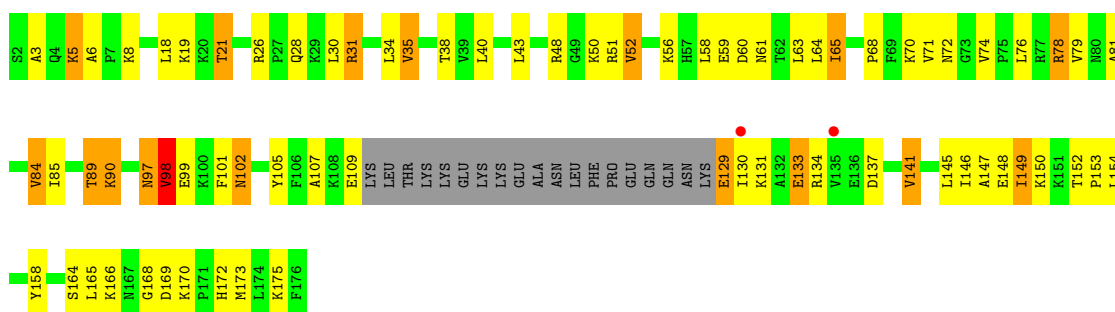


• Molecule 42: 60S ribosomal protein L5

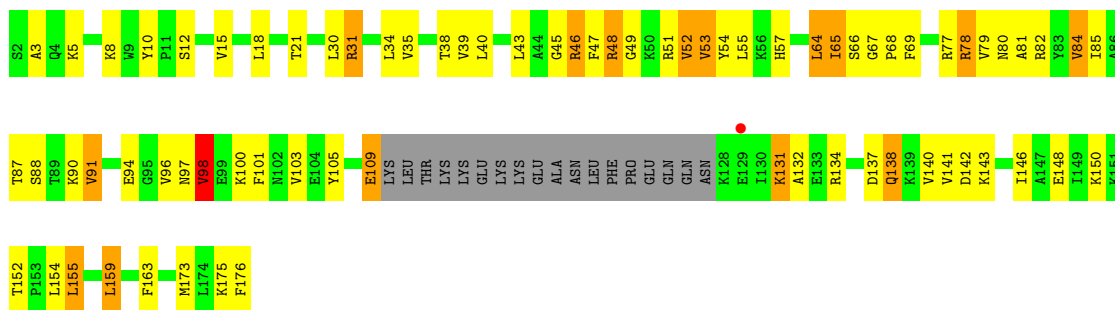




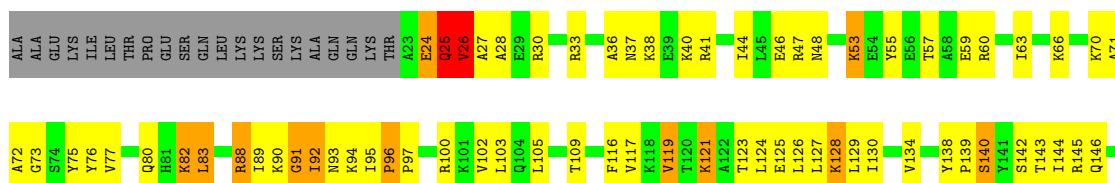
- Molecule 43: 60S ribosomal protein L6-A



- Molecule 43: 60S ribosomal protein L6-A



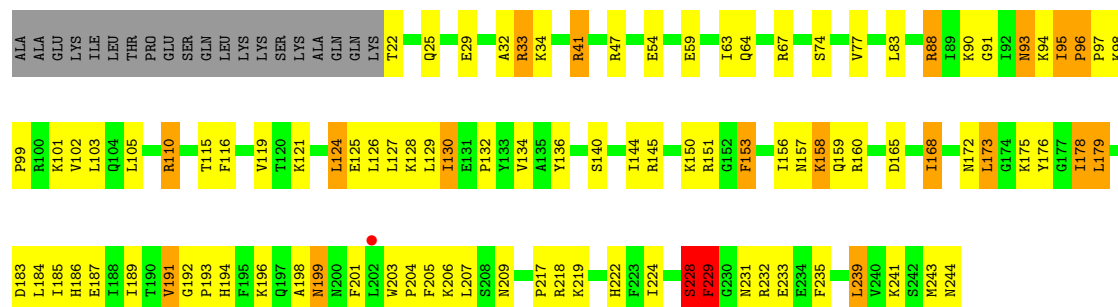
- Molecule 44: 60S ribosomal protein L7-A





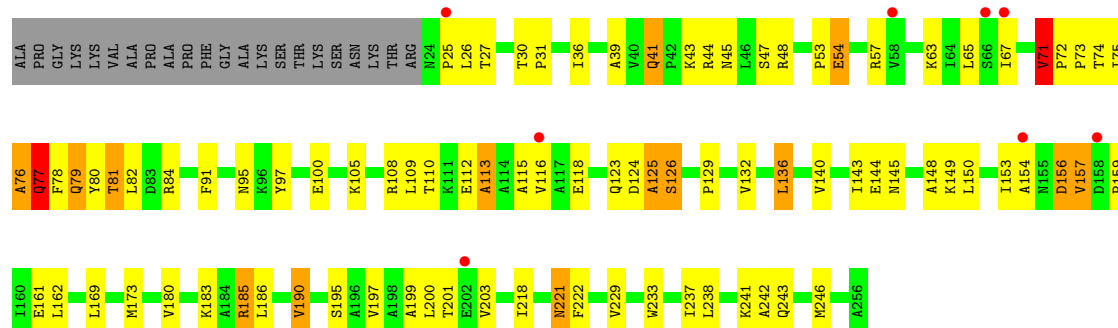
• Molecule 44: 60S ribosomal protein L7-A

Chain 17: 51% 33% 7% 8%



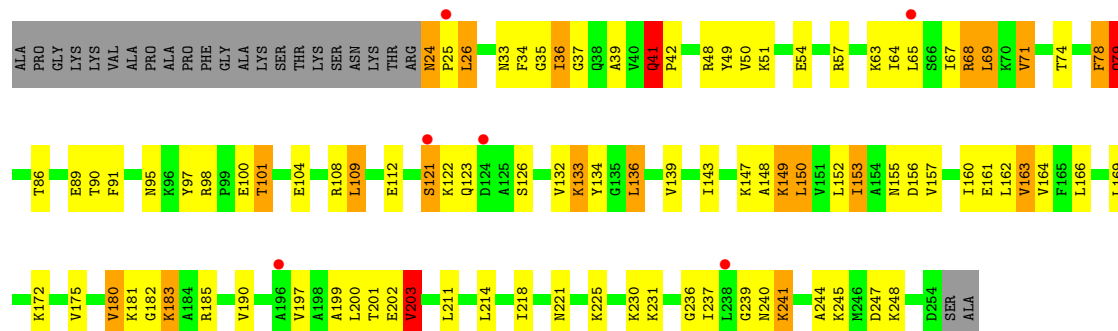
• Molecule 45: 60S ribosomal protein L8-A

Chain 18: 3% 56% 29% 5% 9%

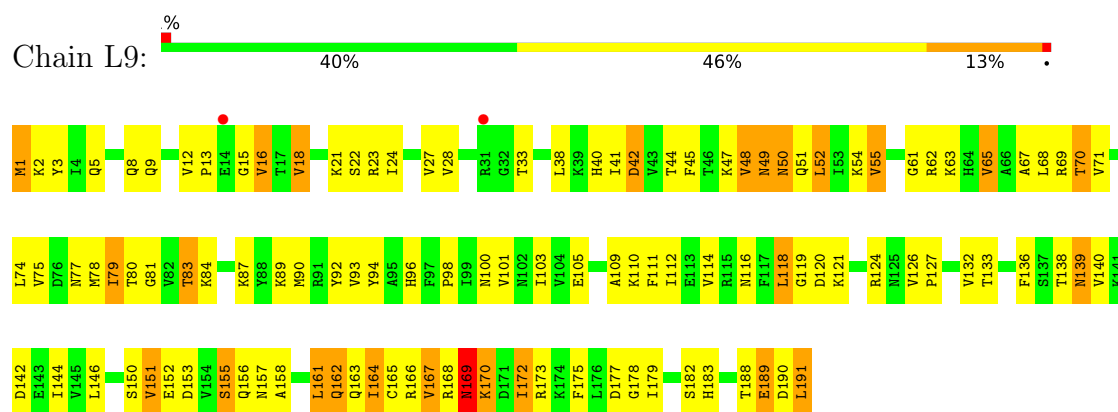


• Molecule 45: 60S ribosomal protein L8-A

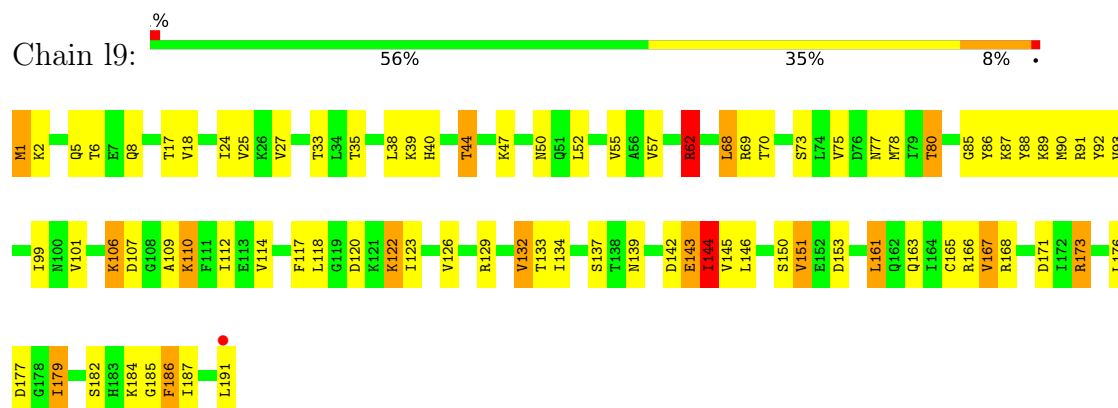
Chain 18: 2% 53% 29% 7% 9%



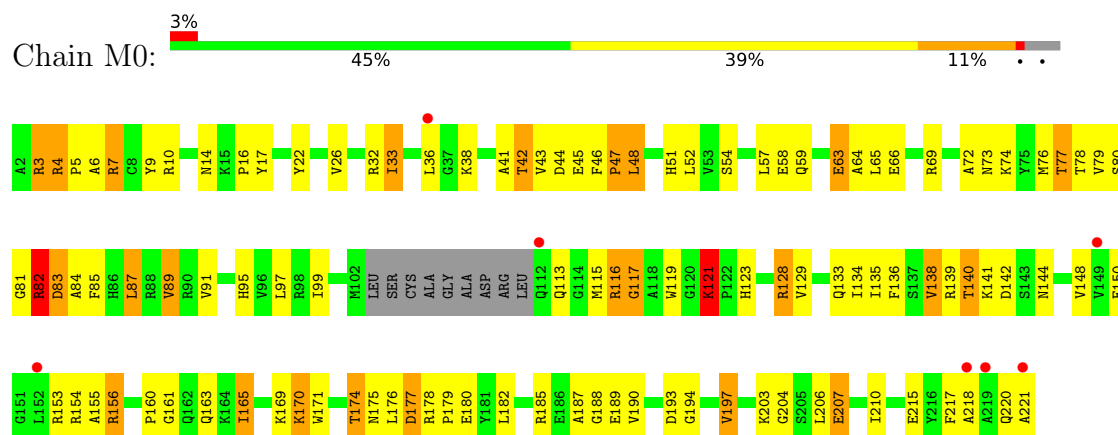
• Molecule 46: 60S ribosomal protein L9-A

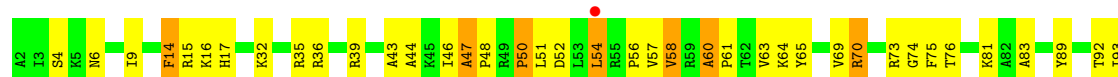


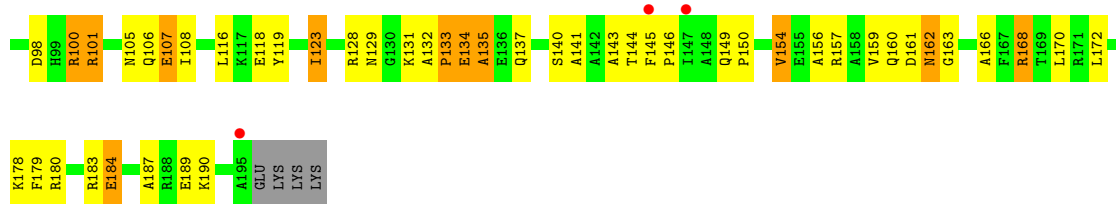
• Molecule 46: 60S ribosomal protein L9-A



• Molecule 47: 60S ribosomal protein L10

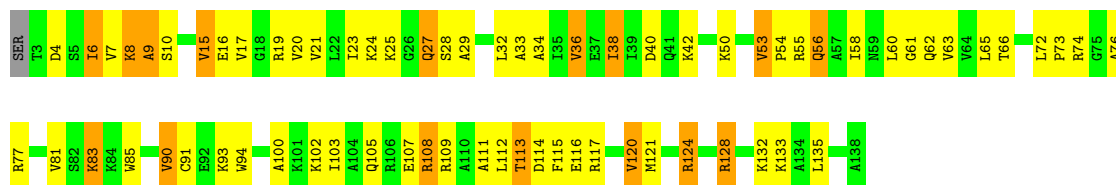






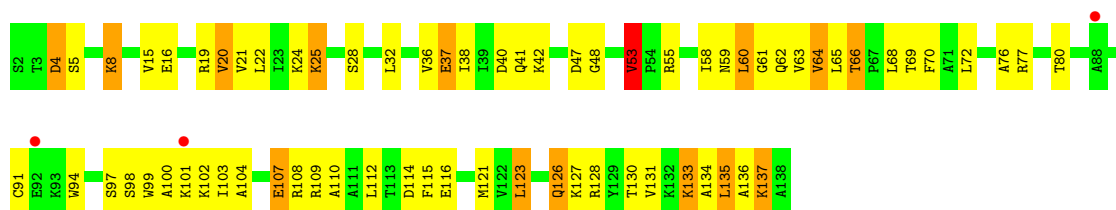
- Molecule 50: 60S ribosomal protein L14-A

Chain M4: 48% 39% 12%



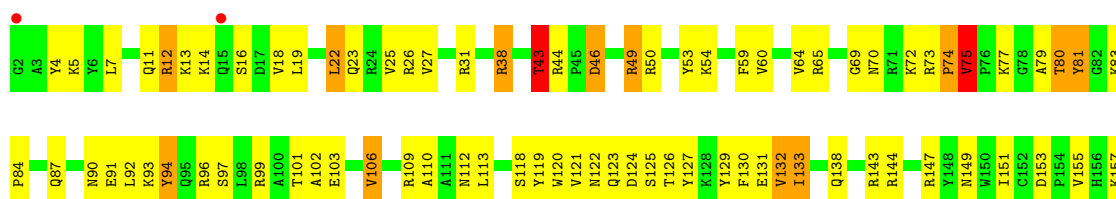
- Molecule 50: 60S ribosomal protein L14-A

Chain m4: 2% 50% 39% 10%



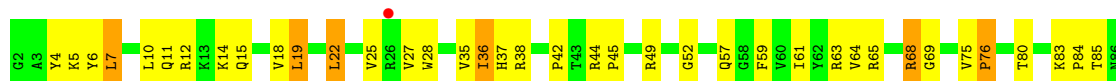
- Molecule 51: 60S ribosomal protein L15-A

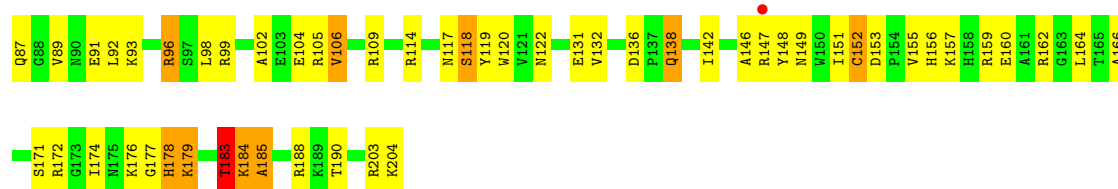
Chain M5: % 50% 42% 7%



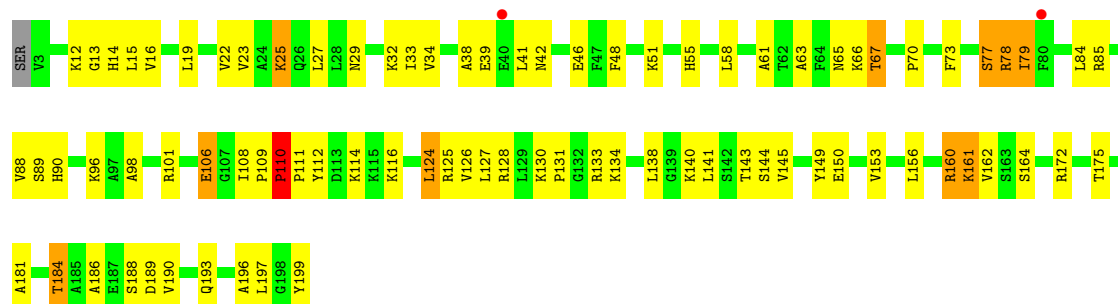
- Molecule 51: 60S ribosomal protein L15-A

Chain m5: % 55% 37% 7%

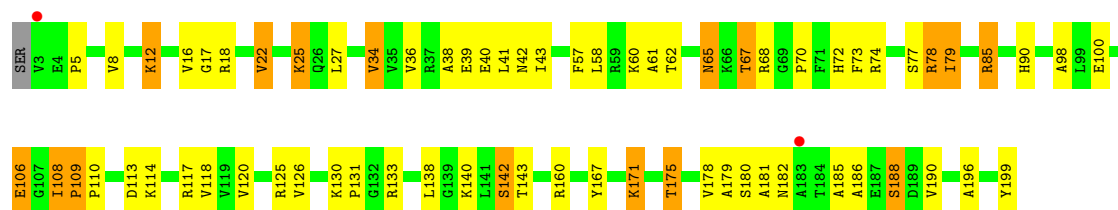




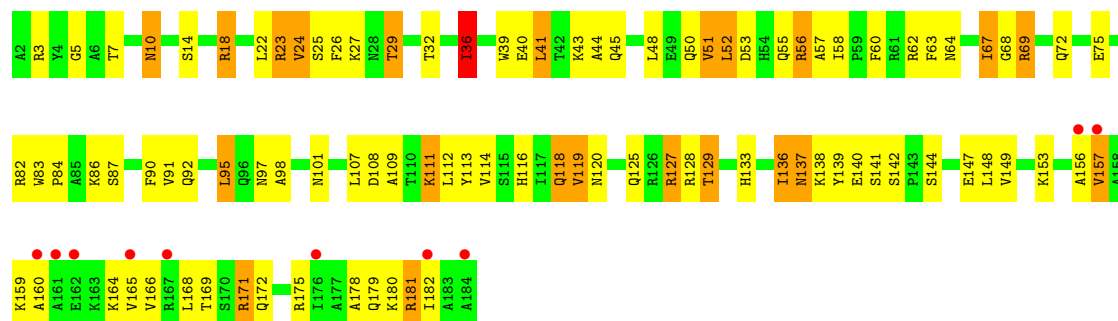
- Molecule 52: 60S ribosomal protein L16-A



- Molecule 52: 60S ribosomal protein L16-A

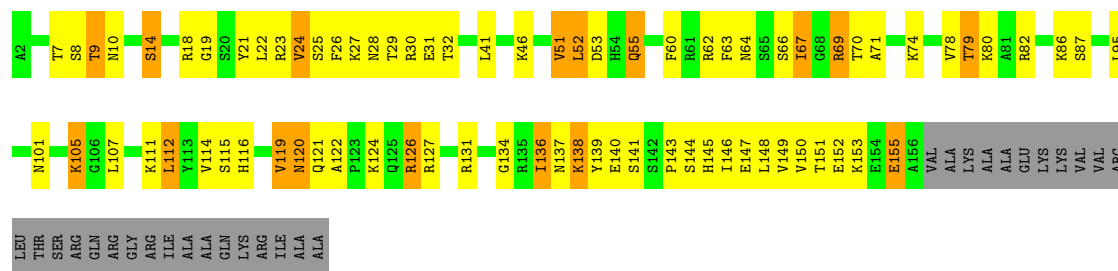


- Molecule 53: 60S ribosomal protein L17-A

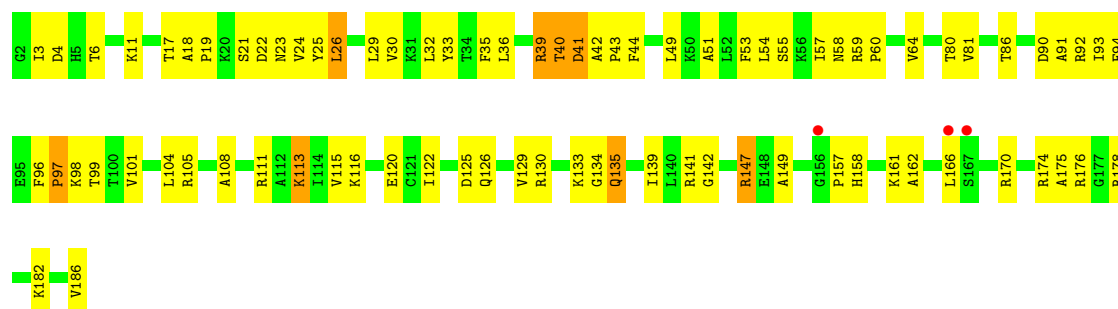


- Molecule 53: 60S ribosomal protein L17-A

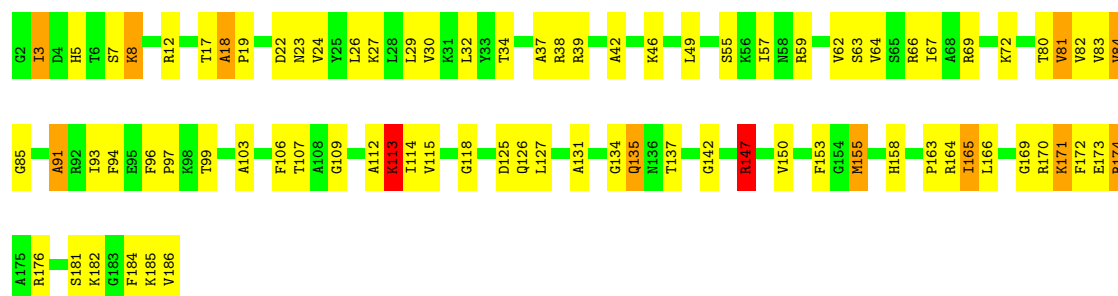




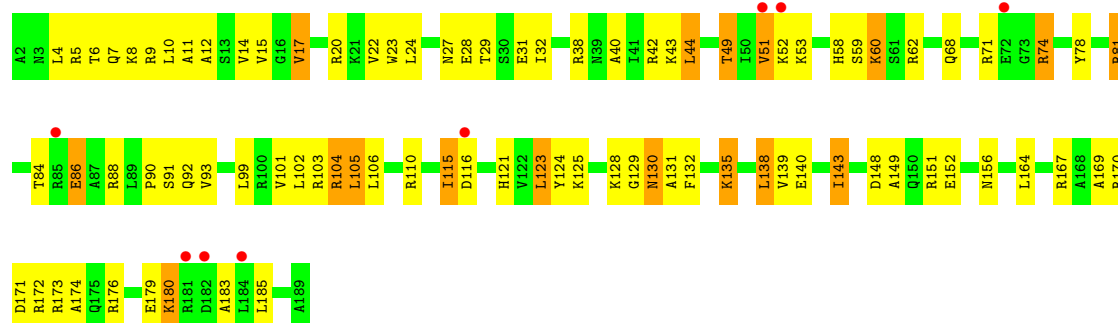
• Molecule 54: 60S ribosomal protein L18-A



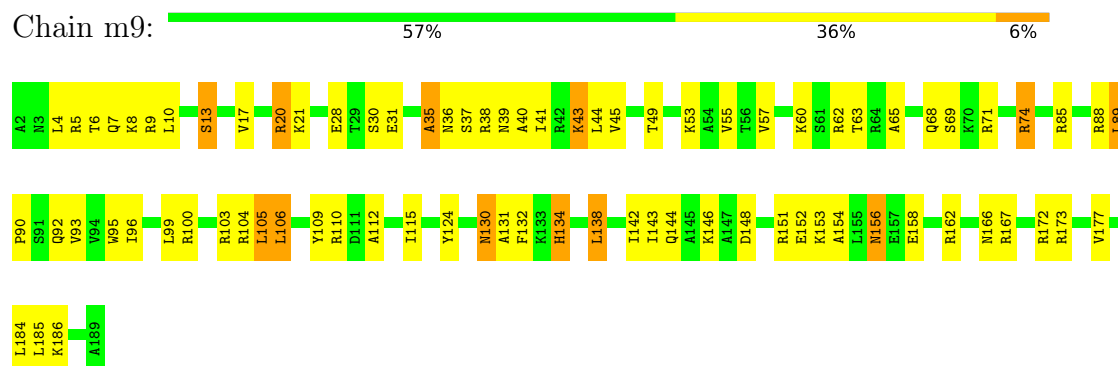
• Molecule 54: 60S ribosomal protein L18-A



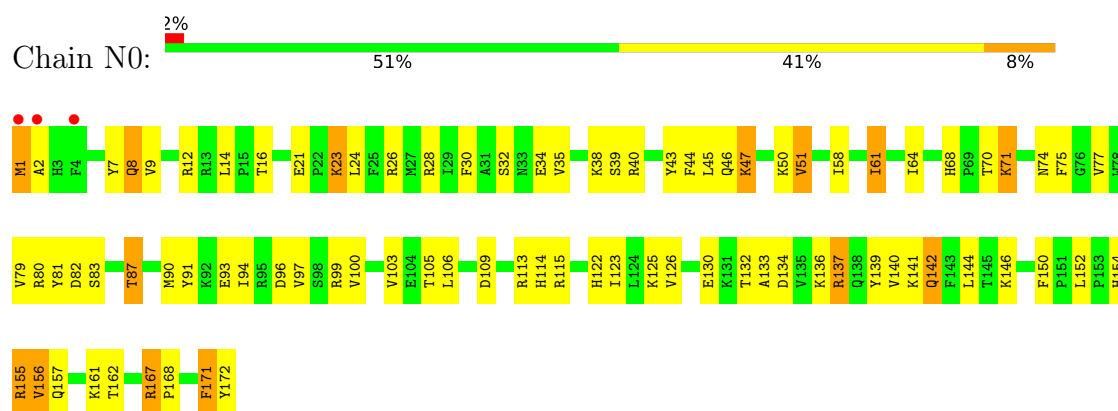
• Molecule 55: 60S ribosomal protein L19-A



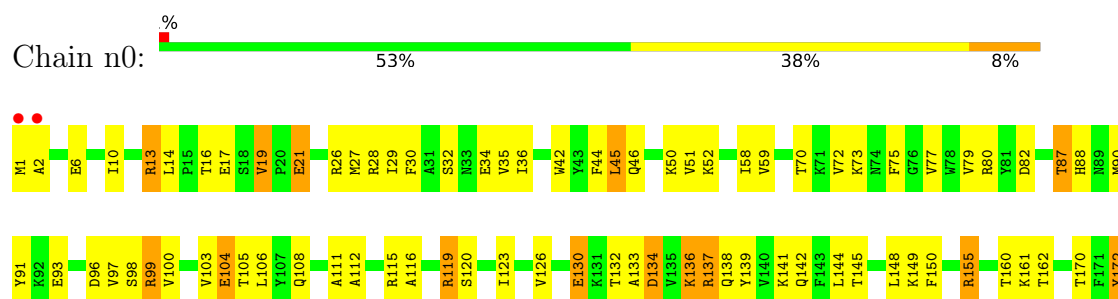
- Molecule 55: 60S ribosomal protein L19-A



- Molecule 56: 60S ribosomal protein L20-A



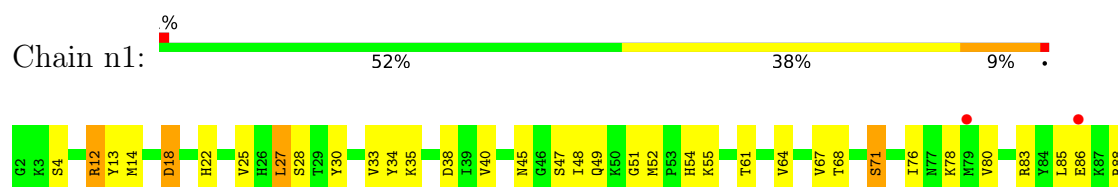
- Molecule 56: 60S ribosomal protein L20-A



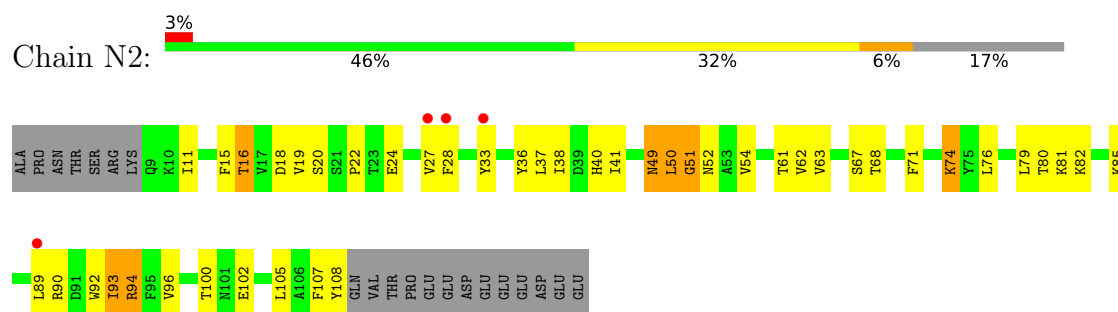
- Molecule 57: 60S ribosomal protein L21-A



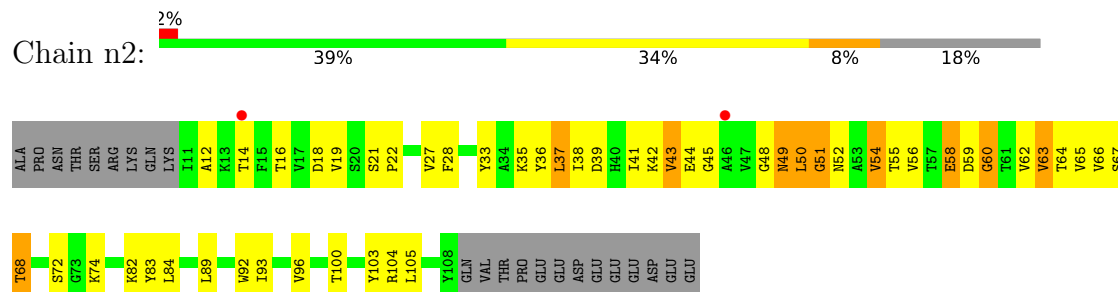
- Molecule 57: 60S ribosomal protein L21-A



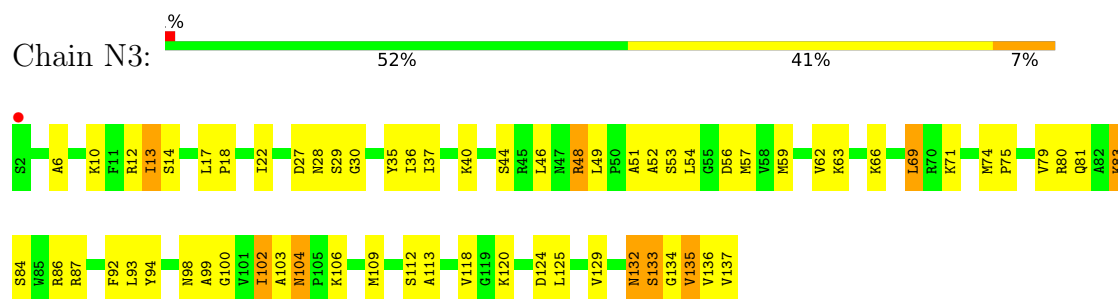
• Molecule 58: 60S ribosomal protein L22-A



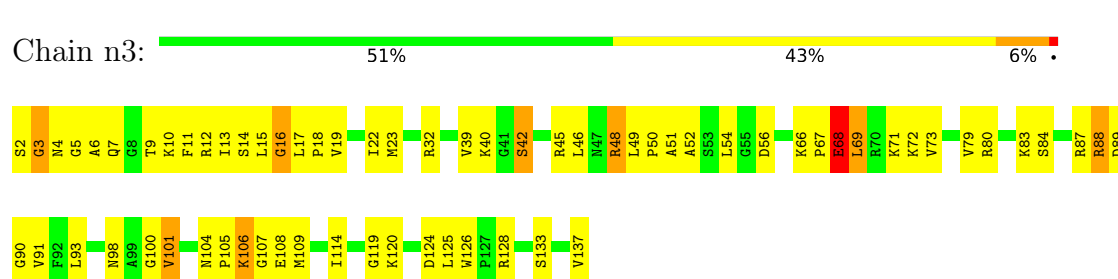
• Molecule 58: 60S ribosomal protein L22-A



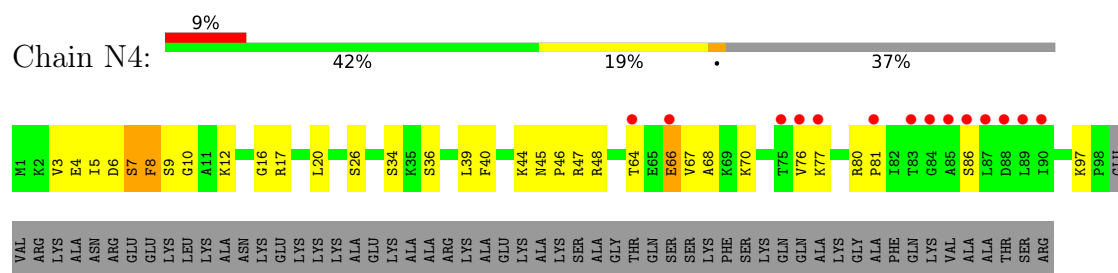
• Molecule 59: 60S ribosomal protein L23-A



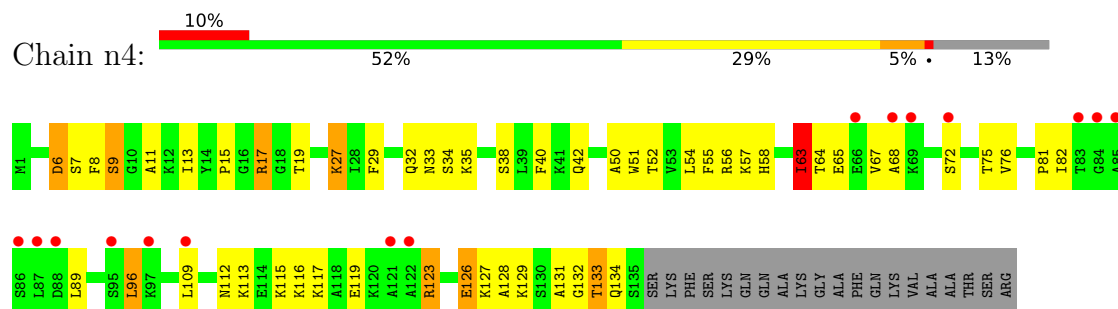
• Molecule 59: 60S ribosomal protein L23-A



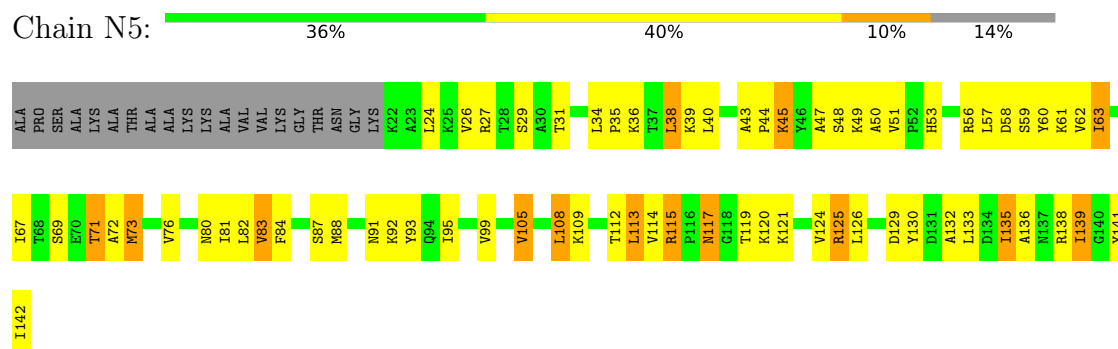
- Molecule 60: 60S ribosomal protein L24-A



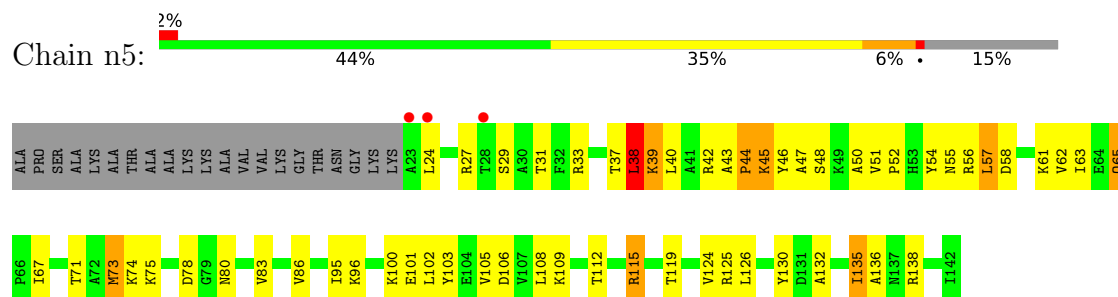
- Molecule 60: 60S ribosomal protein L24-A



- Molecule 61: 60S ribosomal protein L25

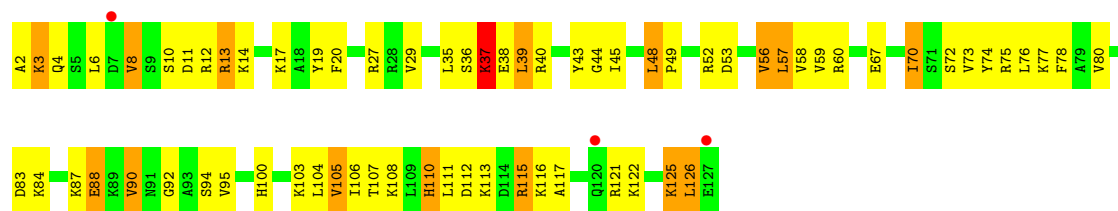


- Molecule 61: 60S ribosomal protein L25

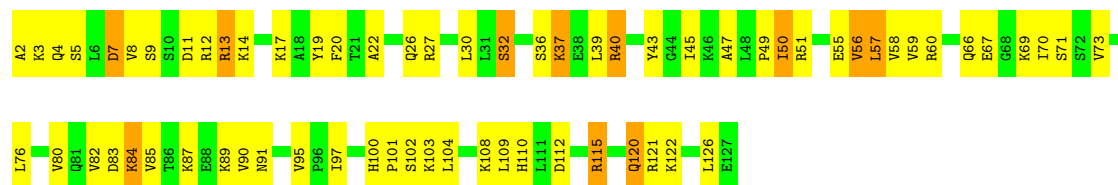


- Molecule 62: 60S ribosomal protein L26-A

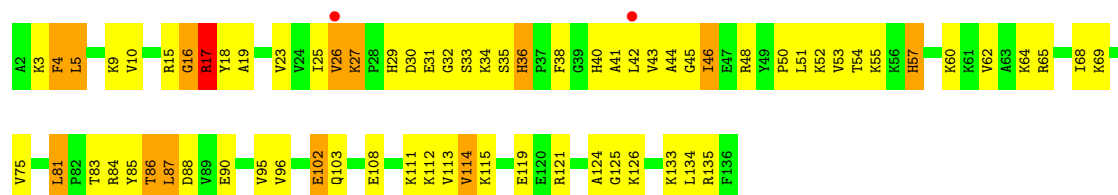




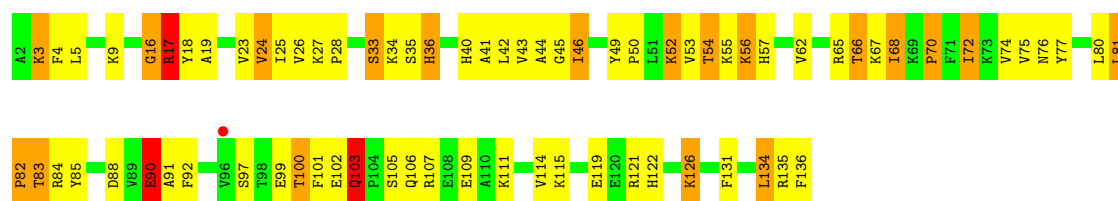
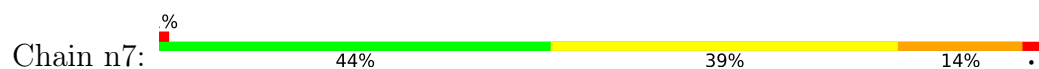
• Molecule 62: 60S ribosomal protein L26-A



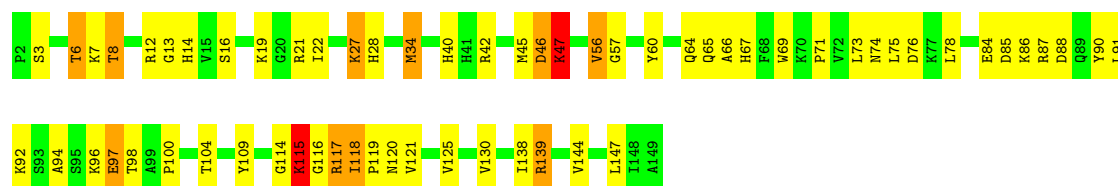
• Molecule 63: 60S ribosomal protein L27-A



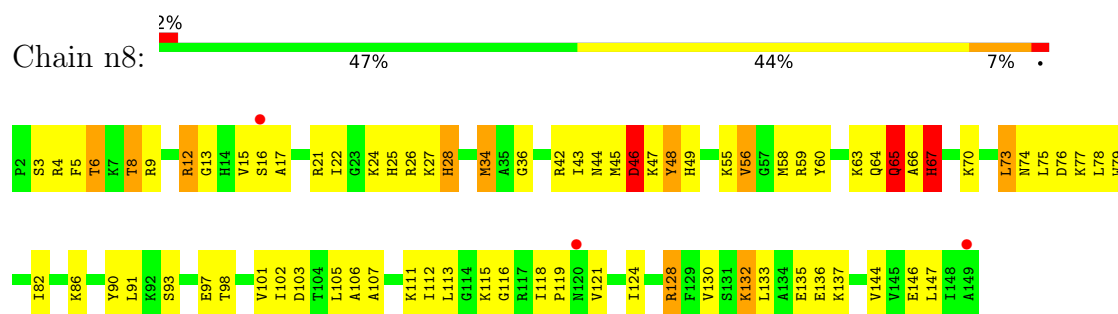
• Molecule 63: 60S ribosomal protein L27-A



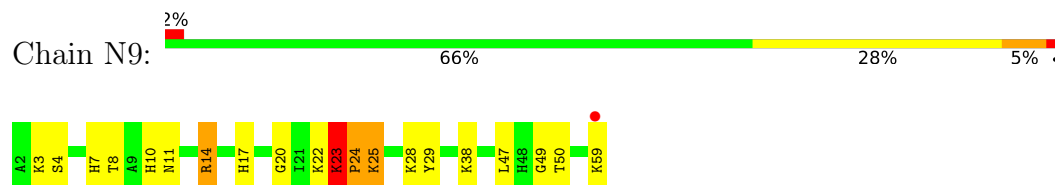
• Molecule 64: 60S ribosomal protein L28



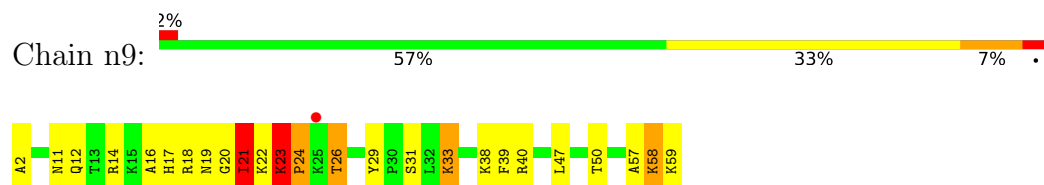
• Molecule 64: 60S ribosomal protein L28



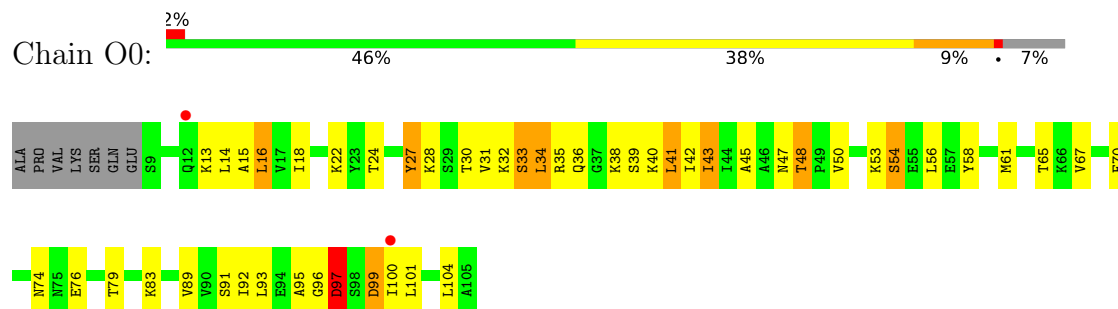
- Molecule 65: 60S ribosomal protein L29



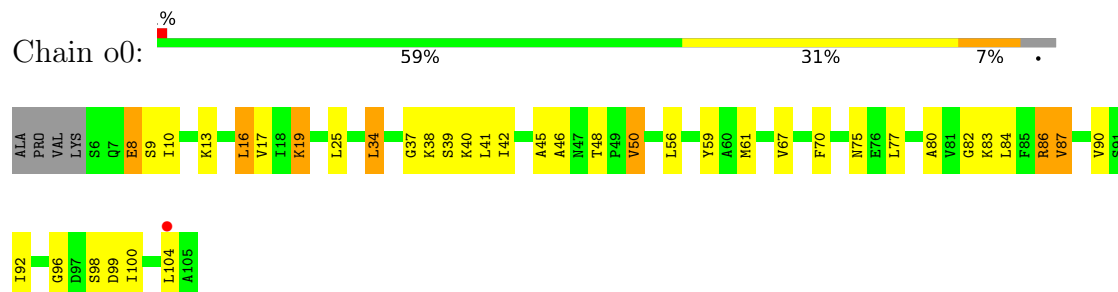
- Molecule 65: 60S ribosomal protein L29



- Molecule 66: 60S ribosomal protein L30

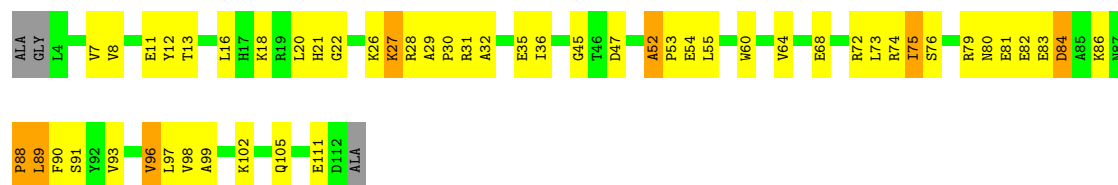


- Molecule 66: 60S ribosomal protein L30



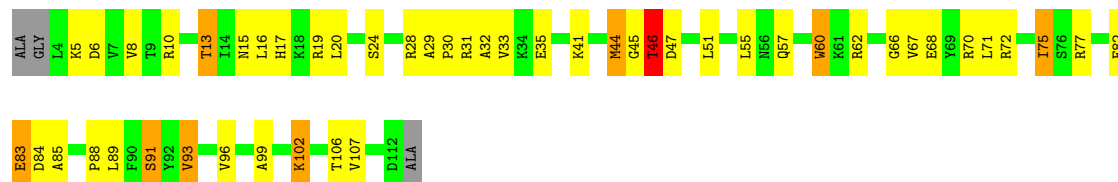
- Molecule 67: 60S ribosomal protein L31-A





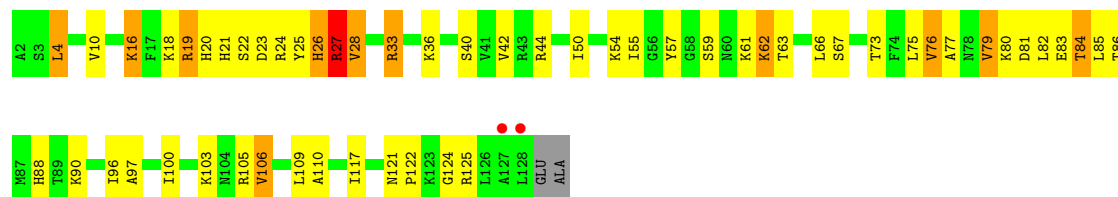
• Molecule 67: 60S ribosomal protein L31-A

Chain o1: 54% 36% 7% ..



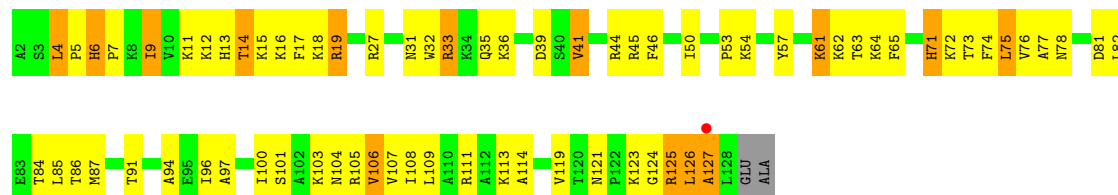
• Molecule 68: 60S ribosomal protein L32

Chain O2: 2% 55% 34% 9% ..



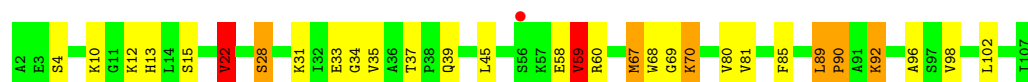
• Molecule 68: 60S ribosomal protein L32

Chain o2: 43% 44% 11% .



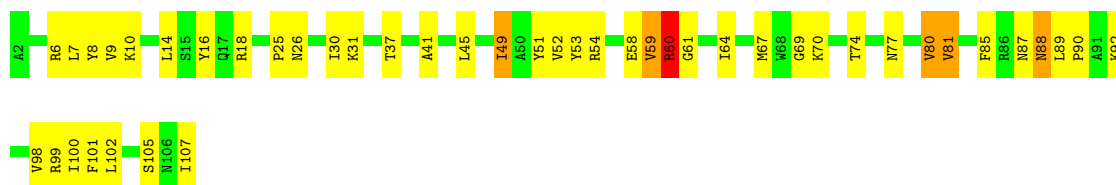
• Molecule 69: 60S ribosomal protein L33-A

Chain O3: 72% 21% 6% .

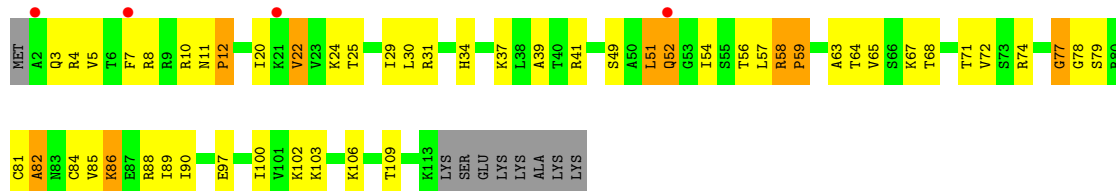


• Molecule 69: 60S ribosomal protein L33-A

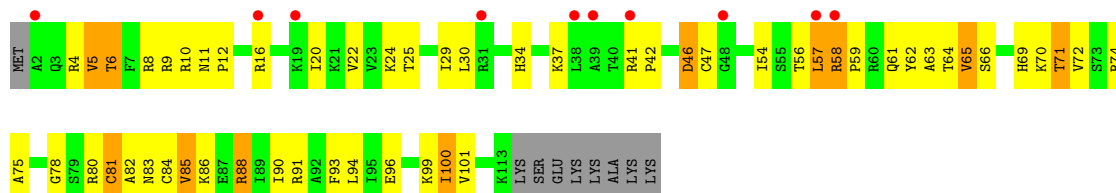
Chain o3: 58% 37% 5% .



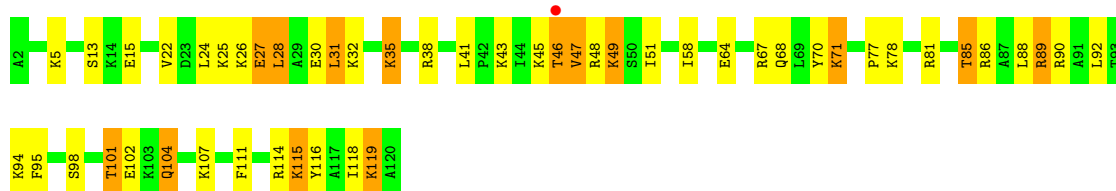
- Molecule 70: 60S ribosomal protein L34-A



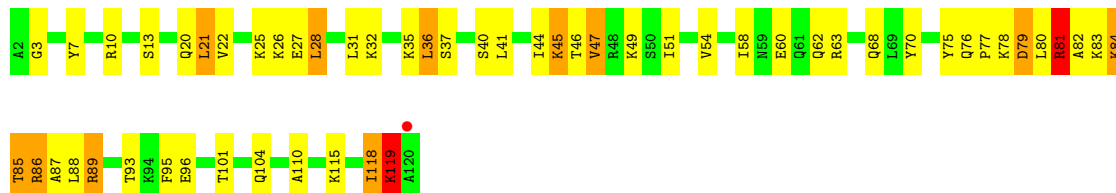
- Molecule 70: 60S ribosomal protein L34-A



- Molecule 71: 60S ribosomal protein L35-A

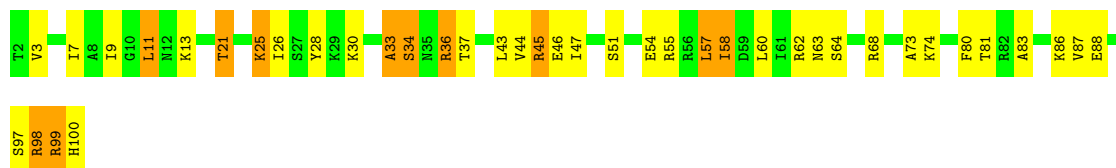


- Molecule 71: 60S ribosomal protein L35-A



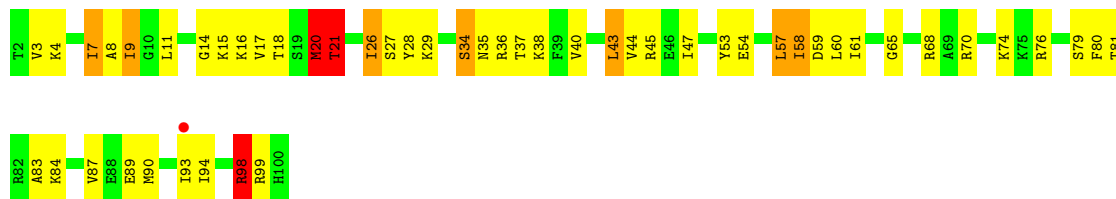
- Molecule 72: 60S ribosomal protein L36-A

Chain O6:  59% 30% 11%



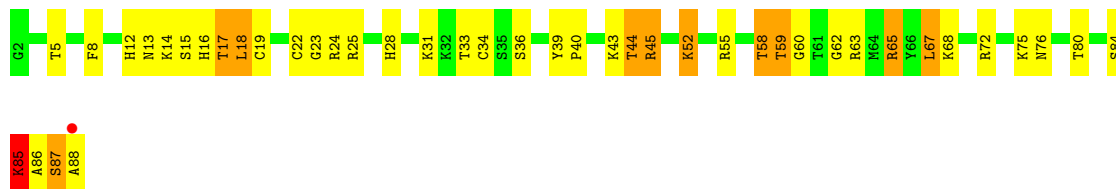
• Molecule 72: 60S ribosomal protein L36-A

Chain o6:  48% 41% 7% .



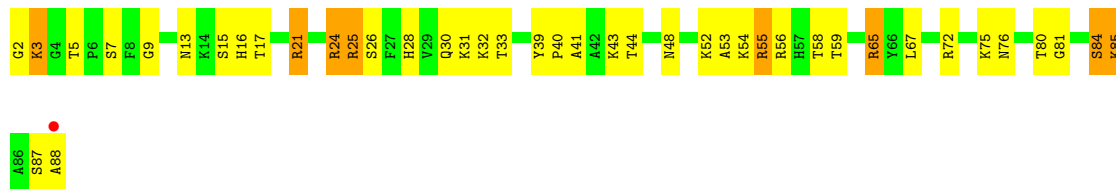
• Molecule 73: 60S ribosomal protein L37-A

Chain O7:  51% 37% 11% .



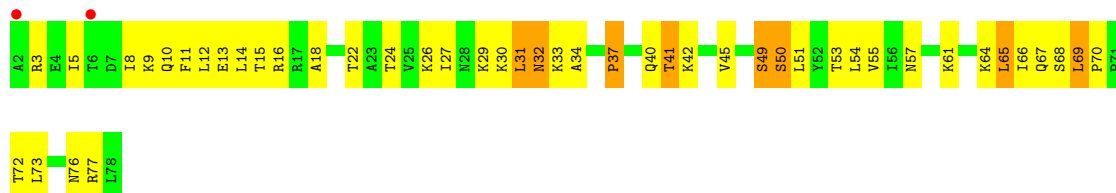
• Molecule 73: 60S ribosomal protein L37-A

Chain o7:  52% 39% 9%

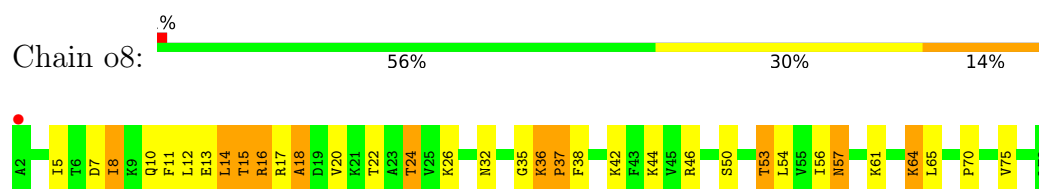


• Molecule 74: 60S ribosomal protein L38

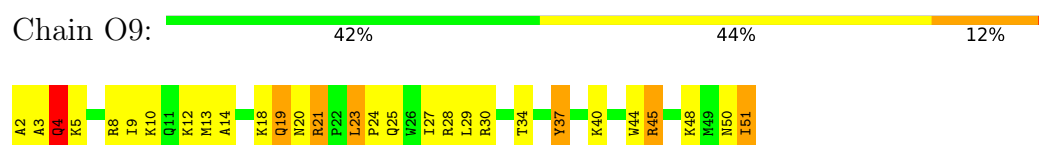
Chain O8:  40% 49% 10% 3%



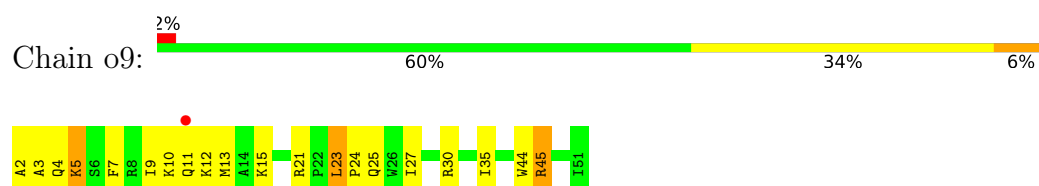
• Molecule 74: 60S ribosomal protein L38



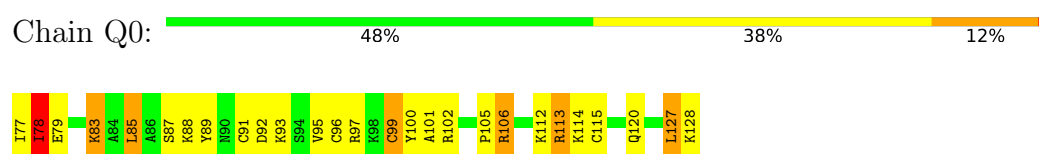
• Molecule 75: 60S ribosomal protein L39



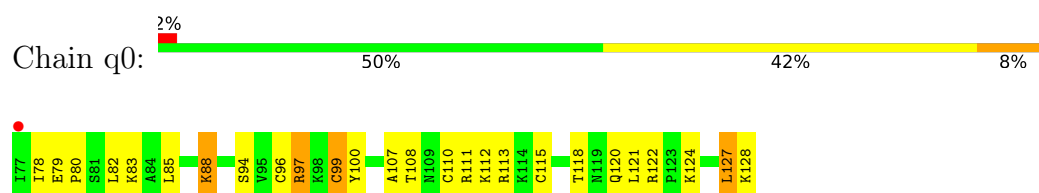
• Molecule 75: 60S ribosomal protein L39



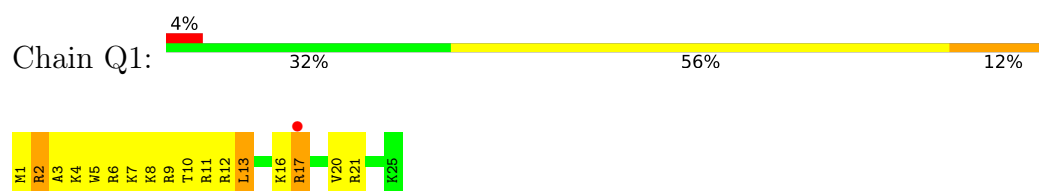
• Molecule 76: Ubiquitin-60S ribosomal protein L40



• Molecule 76: Ubiquitin-60S ribosomal protein L40

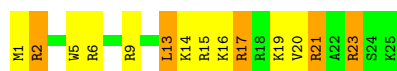


• Molecule 77: 60S ribosomal protein L41-A



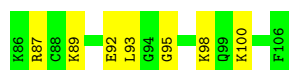
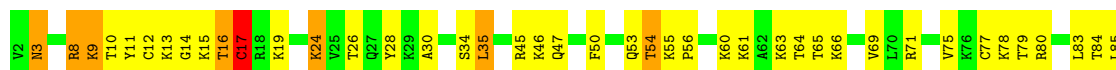
• Molecule 77: 60S ribosomal protein L41-A





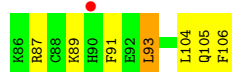
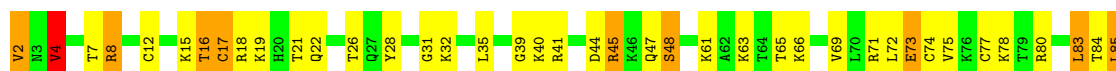
- Molecule 78: 60S ribosomal protein L42-A

Chain Q2: 53% 39% 7% .



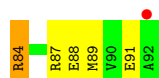
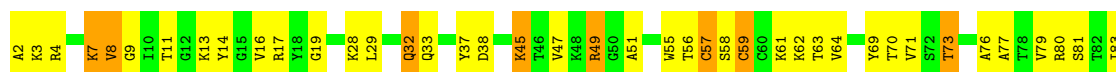
- Molecule 78: 60S ribosomal protein L42-A

Chain q2: 55% 34% 10% .



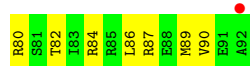
- Molecule 79: 60S ribosomal protein L43-A

Chain Q3: 49% 41% 10%



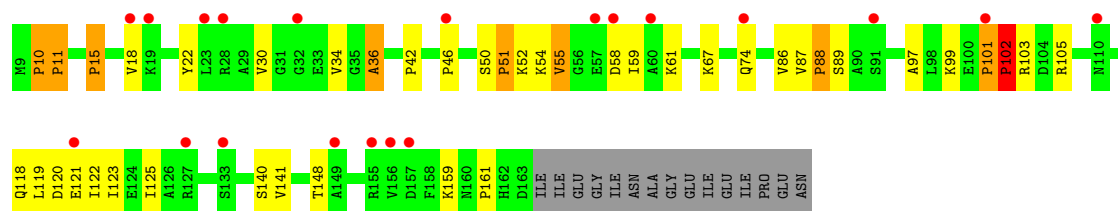
- Molecule 79: 60S ribosomal protein L43-A

Chain q3: 49% 38% 12%

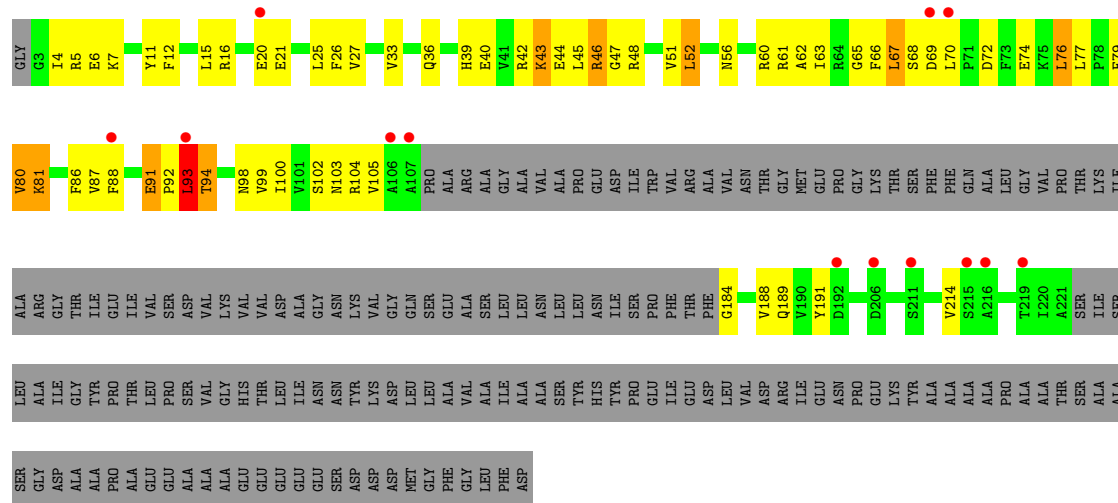


- Molecule 80: 60S ribosomal protein L12-A

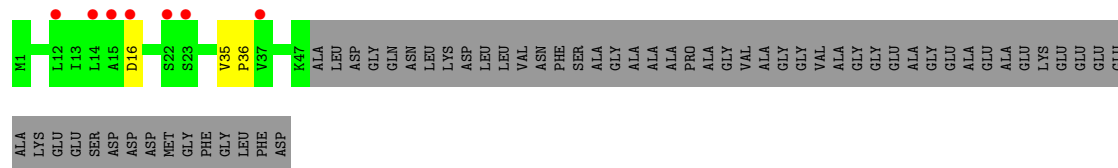
Chain m2: 12% 65% 20% 5% . 9%



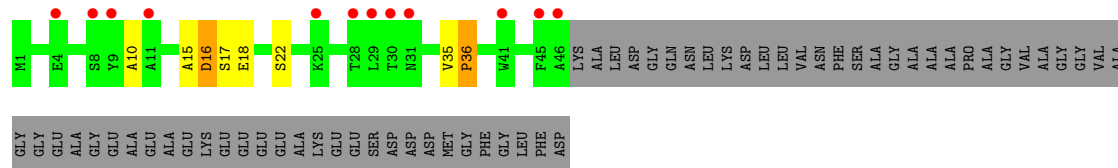
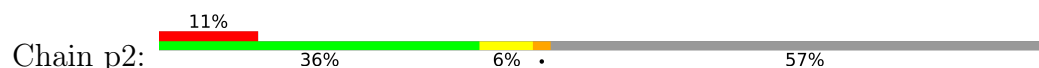
• Molecule 81: 60S acidic ribosomal protein P0



• Molecule 82: 60S acidic ribosomal protein P1-alpha

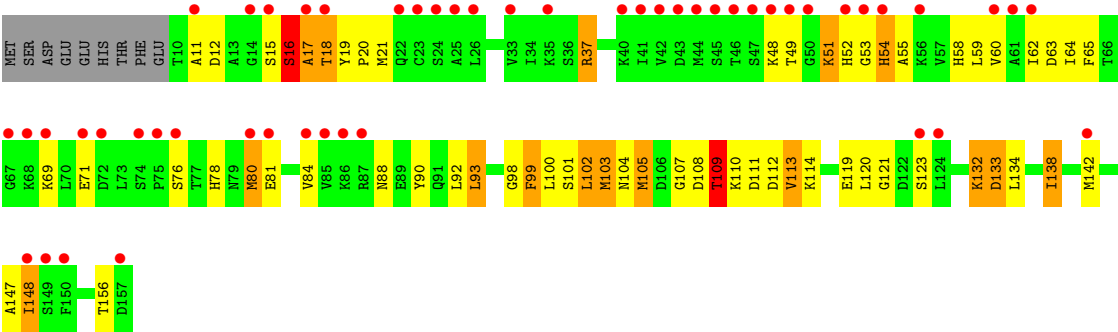


• Molecule 82: 60S acidic ribosomal protein P1-alpha

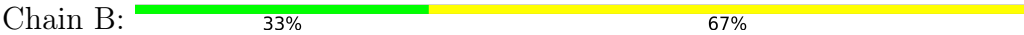


• Molecule 83: Eukaryotic translation initiation factor 5A-1





● Molecule 84: DNA (5'-R(*CP*CP*(NA))-3')



● Molecule 84: DNA (5'-R(*CP*CP*(NA))-3')



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	438.00Å 289.05Å 305.26Å 90.00° 98.95° 90.00°	Depositor
Resolution (Å)	122.88 – 3.45 122.88 – 3.45	Depositor EDS
% Data completeness (in resolution range)	99.9 (122.88-3.45) 99.9 (122.88-3.45)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.43 (at 3.49Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.207 , 0.263 0.209 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	90.1	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 97.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	413121	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% 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, 5CT, 8AN, MG, OHX, SPS

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	2	0.25	0/42467	0.44	0/66169
1	6	0.30	0/42790	0.48	0/66673
2	S0	0.46	0/1617	0.95	5/2215 (0.2%)
2	s0	0.48	0/1623	0.96	4/2222 (0.2%)
3	S1	0.41	0/1735	0.85	3/2335 (0.1%)
3	s1	0.43	0/1748	0.93	7/2352 (0.3%)
4	S2	0.47	0/1665	0.93	4/2263 (0.2%)
4	s2	0.56	0/1665	1.02	10/2263 (0.4%)
5	S3	0.43	0/1759	0.88	2/2368 (0.1%)
5	s3	0.42	0/1759	0.87	6/2368 (0.3%)
6	S4	0.43	0/2109	0.89	7/2839 (0.2%)
6	s4	0.48	0/2109	0.94	4/2839 (0.1%)
7	S5	0.40	0/1629	0.87	3/2202 (0.1%)
7	s5	0.41	0/1629	0.91	6/2202 (0.3%)
8	S6	0.41	0/1823	0.82	0/2439
8	s6	0.47	0/1779	0.95	6/2379 (0.3%)
9	S7	0.41	0/1506	0.87	5/2028 (0.2%)
9	s7	0.45	0/1516	0.91	3/2043 (0.1%)
10	S8	0.45	0/1514	0.87	0/2021
10	s8	0.54	0/1514	0.96	2/2021 (0.1%)
11	S9	0.40	0/1519	0.85	2/2035 (0.1%)
11	s9	0.47	0/1519	0.95	5/2035 (0.2%)
12	C0	0.42	0/790	0.89	3/1069 (0.3%)
12	c0	0.40	0/777	0.95	4/1049 (0.4%)
13	C1	0.47	0/1240	0.93	2/1675 (0.1%)
13	c1	0.55	0/1194	0.89	1/1610 (0.1%)
14	C2	0.43	0/900	0.82	1/1224 (0.1%)
14	c2	0.35	0/900	0.77	0/1224
15	C3	0.44	0/1215	0.89	3/1638 (0.2%)
15	c3	0.50	0/1215	0.95	2/1638 (0.1%)
16	C4	0.42	0/901	0.88	1/1217 (0.1%)
16	c4	0.47	0/960	0.98	6/1290 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	C5	0.45	0/998	1.05	10/1341 (0.7%)
17	c5	0.49	0/1060	0.97	4/1426 (0.3%)
18	C6	0.43	0/1125	0.89	3/1510 (0.2%)
18	c6	0.45	0/1131	0.88	3/1518 (0.2%)
19	C7	0.48	0/935	0.98	4/1254 (0.3%)
19	c7	0.42	0/914	0.91	1/1224 (0.1%)
20	C8	0.44	0/1211	0.86	3/1628 (0.2%)
20	c8	0.43	0/1211	0.87	2/1628 (0.1%)
21	C9	0.41	0/1130	0.86	0/1517
21	c9	0.44	0/1130	0.93	2/1517 (0.1%)
22	D0	0.43	0/865	0.90	5/1169 (0.4%)
22	d0	0.44	0/892	0.90	4/1205 (0.3%)
23	D1	0.44	0/693	0.84	0/935
23	d1	0.47	0/693	0.98	4/935 (0.4%)
24	D2	0.45	0/1038	0.92	3/1395 (0.2%)
24	d2	0.52	0/1038	0.96	3/1395 (0.2%)
25	D3	0.50	0/1139	0.90	0/1518
25	d3	0.59	0/1139	0.98	2/1518 (0.1%)
26	D4	0.43	0/1087	0.82	0/1449
26	d4	0.47	0/1087	0.94	0/1449
27	D5	0.46	0/571	0.92	0/768
27	d5	0.43	0/566	0.92	2/761 (0.3%)
28	D6	0.46	0/782	0.87	3/1047 (0.3%)
28	d6	0.51	0/782	0.93	0/1047
29	D7	0.45	0/620	0.96	3/838 (0.4%)
29	d7	0.46	0/620	0.98	4/838 (0.5%)
30	D8	0.37	0/499	0.81	0/670
30	d8	0.44	0/499	0.93	1/670 (0.1%)
31	D9	0.48	0/452	0.91	2/600 (0.3%)
31	d9	0.42	0/452	0.87	0/600
32	E0	0.40	0/483	0.82	0/643
32	e0	0.49	0/499	0.98	3/665 (0.5%)
33	E1	0.49	0/577	0.92	2/770 (0.3%)
33	e1	0.50	0/619	0.94	2/822 (0.2%)
34	SR	0.38	0/2489	0.81	0/3389
34	sR	0.37	0/2494	0.77	0/3395
35	SM	0.54	0/1113	1.03	7/1502 (0.5%)
35	sM	0.49	0/683	0.95	3/923 (0.3%)
36	1	0.36	0/75394	0.54	4/117545 (0.0%)
36	5	0.38	0/75414	0.55	2/117575 (0.0%)
37	3	0.32	0/2883	0.48	0/4491
37	7	0.39	0/2883	0.54	0/4491
38	4	0.34	0/3746	0.49	0/5832

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	8	0.34	0/3746	0.49	0/5832
39	L2	0.57	0/1948	1.02	5/2617 (0.2%)
39	l2	0.60	0/1946	1.01	4/2614 (0.2%)
40	L3	0.56	0/3146	0.97	8/4228 (0.2%)
40	l3	0.65	0/3146	0.98	7/4228 (0.2%)
41	L4	0.60	0/2800	1.07	18/3790 (0.5%)
41	l4	0.60	0/2800	1.05	12/3790 (0.3%)
42	L5	0.47	0/2425	0.89	5/3271 (0.2%)
42	l5	0.59	0/2408	0.99	10/3248 (0.3%)
43	L6	0.57	0/1260	0.95	4/1694 (0.2%)
43	l6	0.56	0/1269	0.90	1/1705 (0.1%)
44	L7	0.61	0/1821	0.99	5/2451 (0.2%)
44	l7	0.62	0/1828	1.03	8/2461 (0.3%)
45	L8	0.47	0/1836	0.94	6/2481 (0.2%)
45	l8	0.49	0/1796	0.93	8/2431 (0.3%)
46	L9	0.53	0/1539	0.94	1/2073 (0.0%)
46	l9	0.63	0/1539	0.95	0/2073
47	M0	0.55	0/1741	0.93	4/2335 (0.2%)
47	m0	0.63	0/1758	0.97	2/2358 (0.1%)
48	M1	0.47	0/1374	0.90	2/1842 (0.1%)
48	m1	0.55	0/1374	0.95	1/1842 (0.1%)
49	M3	0.56	0/1568	1.04	11/2106 (0.5%)
49	m3	0.57	0/1573	1.02	4/2113 (0.2%)
50	M4	0.57	0/1068	0.96	3/1438 (0.2%)
50	m4	0.62	0/1074	0.97	2/1446 (0.1%)
51	M5	0.56	0/1757	0.91	6/2354 (0.3%)
51	m5	0.54	0/1757	0.94	4/2354 (0.2%)
52	M6	0.70	0/1585	0.94	4/2128 (0.2%)
52	m6	0.80	0/1585	0.97	8/2128 (0.4%)
53	M7	0.62	0/1443	0.98	4/1944 (0.2%)
53	m7	0.67	0/1250	1.02	5/1683 (0.3%)
54	M8	0.62	0/1465	1.03	5/1965 (0.3%)
54	m8	0.60	0/1465	1.04	6/1965 (0.3%)
55	M9	0.47	0/1538	0.86	1/2050 (0.0%)
55	m9	0.54	0/1538	0.90	3/2050 (0.1%)
56	N0	0.57	0/1481	0.91	4/1990 (0.2%)
56	n0	0.64	0/1481	1.03	4/1990 (0.2%)
57	N1	0.55	0/1300	0.93	0/1743
57	n1	0.62	0/1300	0.98	7/1743 (0.4%)
58	N2	0.41	0/812	0.87	0/1099
58	n2	0.43	0/794	0.90	2/1076 (0.2%)
59	N3	0.59	0/1018	0.93	1/1369 (0.1%)
59	n3	0.68	0/1018	1.02	1/1369 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	N4	0.48	0/712	0.99	3/958 (0.3%)
60	n4	0.57	0/1052	0.96	0/1398
61	N5	0.51	0/979	0.90	2/1321 (0.2%)
61	n5	0.52	0/974	0.92	2/1314 (0.2%)
62	N6	0.53	0/1004	1.00	2/1341 (0.1%)
62	n6	0.52	0/1004	0.91	1/1341 (0.1%)
63	N7	0.43	0/1118	0.91	1/1497 (0.1%)
63	n7	0.46	0/1118	0.89	5/1497 (0.3%)
64	N8	0.60	0/1204	0.98	1/1612 (0.1%)
64	n8	0.61	0/1204	0.99	4/1612 (0.2%)
65	N9	0.54	0/473	1.05	2/629 (0.3%)
65	n9	0.66	0/473	1.24	2/629 (0.3%)
66	O0	0.41	0/750	0.82	0/1008
66	o0	0.48	0/774	0.95	2/1040 (0.2%)
67	O1	0.53	0/890	0.93	4/1196 (0.3%)
67	o1	0.59	0/897	0.99	2/1205 (0.2%)
68	O2	0.63	0/1041	0.94	0/1394
68	o2	0.65	0/1041	0.97	1/1394 (0.1%)
69	O3	0.64	0/868	1.01	5/1168 (0.4%)
69	o3	0.64	0/868	1.00	3/1168 (0.3%)
70	O4	0.51	0/890	0.95	2/1189 (0.2%)
70	o4	0.55	0/890	0.96	1/1189 (0.1%)
71	O5	0.51	0/978	0.95	0/1301
71	o5	0.48	0/974	0.91	0/1297
72	O6	0.53	0/778	0.89	0/1034
72	o6	0.54	0/777	0.97	2/1033 (0.2%)
73	O7	0.65	0/696	1.02	3/923 (0.3%)
73	o7	0.58	0/696	0.92	2/923 (0.2%)
74	O8	0.42	0/618	0.85	2/826 (0.2%)
74	o8	0.49	0/614	0.92	2/822 (0.2%)
75	O9	0.59	0/443	0.99	0/588
75	o9	0.54	0/443	0.86	0/588
76	Q0	0.55	0/423	0.98	2/562 (0.4%)
76	q0	0.67	0/423	1.01	4/562 (0.7%)
77	Q1	0.50	0/234	0.80	0/300
77	q1	0.64	0/234	0.95	0/300
78	Q2	0.62	1/860 (0.1%)	0.97	0/1136
78	q2	0.64	0/860	0.95	2/1136 (0.2%)
79	Q3	0.58	0/701	0.94	0/934
79	q3	0.59	0/701	0.96	1/934 (0.1%)
80	m2	0.52	0/736	1.16	10/1019 (1.0%)
81	p0	0.39	0/1092	0.88	1/1474 (0.1%)
82	p1	0.45	0/234	0.98	1/326 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
82	p2	0.49	0/229	0.93	1/319 (0.3%)
83	f	0.56	0/1121	0.92	3/1508 (0.2%)
84	B	0.46	0/40	0.67	0/60
84	C	0.36	0/43	0.55	0/64
All	All	0.43	1/433264 (0.0%)	0.71	475/635894 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
9	s7	0	1
16	C4	0	1
17	c5	0	1
18	c6	0	1
19	C7	0	1
39	L2	0	2
40	l3	0	1
52	M6	0	1
53	m7	0	1
56	n0	0	1
65	N9	0	1
83	f	1	0
All	All	1	12

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
78	Q2	17	CYS	CB-SG	5.44	1.99	1.81

All (475) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
65	n9	23	LYS	CA-C-N	-11.42	105.57	119.84
65	n9	23	LYS	C-N-CA	-11.42	105.57	119.84
60	N4	80	ARG	CA-C-N	10.19	132.57	119.84
60	N4	80	ARG	C-N-CA	10.19	132.57	119.84
35	SM	38	PRO	CA-C-N	9.94	130.62	120.38
35	SM	38	PRO	C-N-CA	9.94	130.62	120.38
69	O3	89	LEU	CA-C-N	9.91	129.53	119.82
69	O3	89	LEU	C-N-CA	9.91	129.53	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	l7	192	GLY	CA-C-N	9.89	132.21	119.84
44	l7	192	GLY	C-N-CA	9.89	132.21	119.84
45	L8	71	VAL	CA-C-N	9.20	129.86	120.38
45	L8	71	VAL	C-N-CA	9.20	129.86	120.38
17	c5	124	THR	CA-C-N	8.93	131.01	119.84
17	c5	124	THR	C-N-CA	8.93	131.01	119.84
49	m3	149	GLN	CA-C-N	8.91	130.97	119.84
49	m3	149	GLN	C-N-CA	8.91	130.97	119.84
39	L2	15	ILE	N-CA-C	-8.80	104.34	112.43
41	L4	3	ARG	CA-C-N	8.60	130.59	119.84
41	L4	3	ARG	C-N-CA	8.60	130.59	119.84
39	l2	209	HIS	CA-C-N	-8.49	111.26	120.94
39	l2	209	HIS	C-N-CA	-8.49	111.26	120.94
56	n0	21	GLU	CA-C-N	-8.23	112.31	120.21
56	n0	21	GLU	C-N-CA	-8.23	112.31	120.21
56	n0	134	ASP	N-CA-C	-8.19	103.42	113.50
54	m8	59	ARG	CA-C-N	-8.11	113.82	119.66
54	m8	59	ARG	C-N-CA	-8.11	113.82	119.66
69	o3	89	LEU	CA-C-N	-8.07	109.76	119.84
69	o3	89	LEU	C-N-CA	-8.07	109.76	119.84
23	d1	13	VAL	CA-C-N	8.06	128.12	119.90
23	d1	13	VAL	C-N-CA	8.06	128.12	119.90
8	s6	172	ALA	CA-C-N	8.05	129.90	119.84
8	s6	172	ALA	C-N-CA	8.05	129.90	119.84
61	n5	65	GLN	CA-C-N	-8.02	112.58	120.52
61	n5	65	GLN	C-N-CA	-8.02	112.58	120.52
42	l5	271	LYS	N-CA-C	-8.01	102.54	112.88
66	o0	48	THR	CA-C-N	8.01	128.07	119.90
66	o0	48	THR	C-N-CA	8.01	128.07	119.90
10	s8	107	THR	CA-C-N	-7.96	111.61	119.64
10	s8	107	THR	C-N-CA	-7.96	111.61	119.64
15	c3	150	VAL	N-CA-C	-7.91	106.19	113.71
68	o2	39	ASP	N-CA-C	-7.87	103.81	113.41
40	L3	169	THR	CA-C-N	7.87	129.68	119.84
40	L3	169	THR	C-N-CA	7.87	129.68	119.84
80	m2	101	PRO	N-CA-CB	7.83	110.67	103.08
45	l8	26	LEU	N-CA-C	-7.83	104.25	113.88
20	C8	81	ILE	CA-C-N	7.79	129.58	119.84
20	C8	81	ILE	C-N-CA	7.79	129.58	119.84
65	N9	23	LYS	CA-C-N	-7.79	110.10	119.84
65	N9	23	LYS	C-N-CA	-7.79	110.10	119.84
61	N5	43	ALA	CA-C-N	7.77	129.55	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	N5	43	ALA	C-N-CA	7.77	129.55	119.84
56	N0	134	ASP	N-CA-C	-7.70	103.91	113.38
17	C5	124	THR	CA-C-N	7.70	129.46	119.84
17	C5	124	THR	C-N-CA	7.70	129.46	119.84
18	C6	40	GLU	CA-C-N	7.67	145.41	127.00
18	C6	40	GLU	C-N-CA	7.67	145.41	127.00
9	s7	131	PHE	CA-C-N	-7.64	110.29	119.84
9	s7	131	PHE	C-N-CA	-7.64	110.29	119.84
36	5	1307	G	P-O3'-C3'	7.64	131.66	120.20
41	l4	3	ARG	CA-C-N	7.60	129.34	119.84
41	l4	3	ARG	C-N-CA	7.60	129.34	119.84
41	l4	191	LYS	N-CA-C	-7.50	103.20	112.88
3	S1	180	THR	CB-CA-C	-7.49	106.88	115.79
29	D7	37	CYS	CA-C-N	7.46	129.16	119.84
29	D7	37	CYS	C-N-CA	7.46	129.16	119.84
80	m2	10	PRO	N-CA-CB	7.46	110.32	103.08
36	5	1307	G	C2'-C3'-O3'	7.45	120.68	109.50
7	s5	27	THR	CA-C-N	7.42	129.12	119.84
7	s5	27	THR	C-N-CA	7.42	129.12	119.84
12	c0	97	PRO	N-CA-CB	7.39	111.01	103.25
51	m5	75	VAL	CA-C-N	7.39	129.08	119.84
51	m5	75	VAL	C-N-CA	7.39	129.08	119.84
12	C0	88	PRO	N-CA-CB	7.35	110.97	103.25
64	n8	46	ASP	N-CA-C	-7.33	100.16	110.50
3	s1	205	PHE	CA-C-N	7.27	128.92	119.84
3	s1	205	PHE	C-N-CA	7.27	128.92	119.84
40	l3	39	LYS	CA-C-N	7.26	127.30	119.89
40	l3	39	LYS	C-N-CA	7.26	127.30	119.89
80	m2	46	PRO	N-CA-CB	7.24	110.77	102.88
5	s3	219	ALA	CA-C-N	7.23	128.88	119.84
5	s3	219	ALA	C-N-CA	7.23	128.88	119.84
4	S2	181	SER	CA-C-N	7.23	128.87	119.84
4	S2	181	SER	C-N-CA	7.23	128.87	119.84
35	sM	167	PRO	N-CA-CB	7.22	110.83	103.25
80	m2	42	PRO	N-CA-CB	7.22	110.83	103.25
2	s0	3	LEU	CA-C-N	7.19	128.83	119.84
2	s0	3	LEU	C-N-CA	7.19	128.83	119.84
24	D2	76	SER	CA-C-N	-7.18	111.39	120.23
24	D2	76	SER	C-N-CA	-7.18	111.39	120.23
57	n1	131	GLN	CA-C-N	7.17	127.13	120.03
57	n1	131	GLN	C-N-CA	7.17	127.13	120.03
52	m6	110	PRO	CA-C-N	-7.17	111.39	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	m6	110	PRO	C-N-CA	-7.17	111.39	119.28
41	L4	222	VAL	CA-C-N	7.14	128.76	119.84
41	L4	222	VAL	C-N-CA	7.14	128.76	119.84
11	s9	143	ILE	CA-C-N	7.13	128.76	119.84
11	s9	143	ILE	C-N-CA	7.13	128.76	119.84
12	c0	83	PRO	N-CA-CB	7.10	110.70	103.25
3	s1	22	ASP	CA-C-N	7.09	126.77	119.82
3	s1	22	ASP	C-N-CA	7.09	126.77	119.82
41	l4	22	LEU	CA-C-N	7.08	128.68	119.84
41	l4	22	LEU	C-N-CA	7.08	128.68	119.84
6	s4	34	GLY	CA-C-N	7.07	126.69	119.19
6	s4	34	GLY	C-N-CA	7.07	126.69	119.19
55	M9	105	LEU	N-CA-C	-7.07	103.50	111.14
41	l4	284	SER	N-CA-C	-7.07	103.89	114.64
16	c4	95	GLY	CA-C-N	7.03	126.56	119.24
16	c4	95	GLY	C-N-CA	7.03	126.56	119.24
82	p1	36	PRO	N-CA-CB	7.02	110.62	103.25
35	SM	167	PRO	N-CA-CB	7.01	110.62	103.25
64	n8	28	HIS	N-CA-C	6.99	125.27	109.81
62	N6	100	HIS	CA-C-N	6.99	128.57	119.84
62	N6	100	HIS	C-N-CA	6.99	128.57	119.84
54	M8	59	ARG	CA-C-N	-6.98	114.63	119.66
54	M8	59	ARG	C-N-CA	-6.98	114.63	119.66
41	l4	300	ARG	CA-C-N	6.95	128.52	119.84
41	l4	300	ARG	C-N-CA	6.95	128.52	119.84
80	m2	88	PRO	N-CA-CB	6.93	110.53	103.25
18	C6	40	GLU	C-N-CD	-6.91	105.40	120.60
52	m6	109	PRO	CA-C-N	6.89	127.48	120.38
52	m6	109	PRO	C-N-CA	6.89	127.48	120.38
44	L7	96	PRO	O-C-N	6.88	124.47	121.31
24	D2	84	GLY	N-CA-C	-6.86	106.16	114.66
54	M8	18	ALA	CA-C-N	-6.86	113.24	120.03
54	M8	18	ALA	C-N-CA	-6.86	113.24	120.03
80	m2	51	PRO	N-CA-CB	6.84	110.43	103.25
39	L2	140	ASN	CA-C-N	6.84	128.39	119.84
39	L2	140	ASN	C-N-CA	6.84	128.39	119.84
80	m2	161	PRO	N-CA-CB	6.81	110.40	103.25
41	L4	84	ARG	N-CA-C	-6.77	103.82	111.07
79	q3	17	ARG	N-CA-C	6.77	118.74	110.41
82	p2	36	PRO	N-CA-CB	6.77	110.36	103.25
45	L8	30	THR	CA-C-N	6.76	128.29	119.84
45	L8	30	THR	C-N-CA	6.76	128.29	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	c0	88	PRO	N-CA-CB	6.75	110.34	103.25
17	C5	108	ARG	CA-C-N	6.70	128.22	119.84
17	C5	108	ARG	C-N-CA	6.70	128.22	119.84
48	M1	73	GLY	CA-C-N	6.70	128.22	119.84
48	M1	73	GLY	C-N-CA	6.70	128.22	119.84
52	M6	109	PRO	CA-C-N	6.70	127.28	120.38
52	M6	109	PRO	C-N-CA	6.70	127.28	120.38
6	S4	4	GLY	CA-C-N	6.68	128.20	119.84
6	S4	4	GLY	C-N-CA	6.68	128.20	119.84
29	d7	43	ILE	N-CA-C	6.65	113.32	106.21
4	s2	181	SER	CA-C-N	6.64	128.14	119.84
4	s2	181	SER	C-N-CA	6.64	128.14	119.84
3	S1	205	PHE	CA-C-N	6.63	128.12	119.84
3	S1	205	PHE	C-N-CA	6.63	128.12	119.84
41	l4	316	ASN	CA-C-N	6.62	128.12	119.84
41	l4	316	ASN	C-N-CA	6.62	128.12	119.84
40	l3	82	PRO	CA-C-N	6.61	128.10	119.84
40	l3	82	PRO	C-N-CA	6.61	128.10	119.84
54	M8	60	PRO	O-C-N	6.61	124.25	121.15
47	M0	218	ALA	N-CA-C	-6.60	105.80	114.31
53	M7	10	ASN	CA-C-N	6.58	126.27	119.56
53	M7	10	ASN	C-N-CA	6.58	126.27	119.56
80	m2	15	PRO	N-CA-CB	6.57	110.15	103.25
80	m2	102	PRO	N-CA-CB	6.56	110.13	103.25
63	n7	27	LYS	CA-C-N	6.56	128.04	119.84
63	n7	27	LYS	C-N-CA	6.56	128.04	119.84
73	O7	8	PHE	N-CA-C	-6.55	105.44	113.50
52	m6	57	PHE	N-CA-C	-6.55	105.30	113.55
7	s5	44	ASN	N-CA-C	-6.55	104.22	111.36
63	n7	103	GLN	CA-C-N	6.54	128.02	119.84
63	n7	103	GLN	C-N-CA	6.54	128.02	119.84
29	D7	15	GLU	N-CA-C	-6.54	105.34	113.38
50	M4	53	VAL	CA-C-N	6.54	126.51	119.78
50	M4	53	VAL	C-N-CA	6.54	126.51	119.78
6	S4	229	GLY	N-CA-C	6.53	121.28	111.42
32	e0	62	VAL	N-CA-C	-6.48	104.02	110.30
35	SM	51	ARG	CA-C-N	6.47	127.93	119.84
35	SM	51	ARG	C-N-CA	6.47	127.93	119.84
18	c6	123	ARG	CA-C-N	-6.47	114.06	120.98
18	c6	123	ARG	C-N-CA	-6.47	114.06	120.98
41	L4	180	LYS	N-CA-C	-6.47	104.15	111.07
42	l5	250	ASP	CA-C-N	6.46	126.04	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	l5	250	ASP	C-N-CA	6.46	126.04	119.19
54	m8	42	ALA	CA-C-N	6.45	125.94	119.24
54	m8	42	ALA	C-N-CA	6.45	125.94	119.24
7	s5	29	ILE	CA-C-N	6.42	126.39	119.78
7	s5	29	ILE	C-N-CA	6.42	126.39	119.78
40	L3	132	LYS	N-CA-C	-6.41	106.42	114.56
70	O4	58	ARG	CA-C-N	6.41	127.85	119.84
70	O4	58	ARG	C-N-CA	6.41	127.85	119.84
22	d0	120	SER	CB-CA-C	-6.39	109.19	116.54
51	M5	73	ARG	CA-C-N	6.38	127.82	119.84
51	M5	73	ARG	C-N-CA	6.38	127.82	119.84
74	o8	36	LYS	CA-C-N	6.36	127.79	119.84
74	o8	36	LYS	C-N-CA	6.36	127.79	119.84
25	d3	80	GLY	N-CA-C	-6.35	106.92	115.36
67	O1	29	ALA	CA-C-N	-6.34	112.47	119.19
67	O1	29	ALA	C-N-CA	-6.34	112.47	119.19
52	m6	108	ILE	CA-C-N	6.28	126.85	120.38
52	m6	108	ILE	C-N-CA	6.28	126.85	120.38
11	s9	66	ASP	CA-C-N	6.26	127.66	119.84
11	s9	66	ASP	C-N-CA	6.26	127.66	119.84
19	C7	85	VAL	CA-C-N	6.25	127.65	119.84
19	C7	85	VAL	C-N-CA	6.25	127.65	119.84
3	s1	37	THR	N-CA-C	-6.24	105.63	113.18
80	m2	11	PRO	N-CA-CB	6.24	109.80	103.25
53	m7	79	THR	N-CA-C	-6.21	106.93	114.75
48	m1	152	HIS	N-CA-C	-6.20	97.59	110.80
50	M4	56	GLN	N-CA-C	6.19	117.64	108.60
33	E1	138	ARG	N-CA-C	6.18	117.91	108.52
49	M3	163	GLY	N-CA-C	6.17	120.18	113.58
44	l7	95	ILE	CA-C-N	6.17	126.73	120.38
44	l7	95	ILE	C-N-CA	6.17	126.73	120.38
41	L4	269	SER	N-CA-C	6.15	120.86	109.24
36	1	637	C	C4'-C3'-O3'	6.12	118.58	109.40
27	d5	54	VAL	CA-C-N	-6.09	113.36	120.12
27	d5	54	VAL	C-N-CA	-6.09	113.36	120.12
29	d7	75	GLU	CB-CA-C	-6.06	109.57	116.54
51	m5	177	GLY	N-CA-C	6.04	117.69	111.95
19	C7	64	GLY	CA-C-N	6.03	127.38	119.84
19	C7	64	GLY	C-N-CA	6.03	127.38	119.84
56	N0	68	HIS	CA-C-N	6.03	126.81	120.12
56	N0	68	HIS	C-N-CA	6.03	126.81	120.12
6	S4	58	GLY	N-CA-C	-6.03	105.30	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	D0	54	GLY	CA-C-N	6.02	127.37	119.84
22	D0	54	GLY	C-N-CA	6.02	127.37	119.84
53	m7	105	LYS	N-CA-C	-6.02	105.49	114.64
4	s2	233	GLN	CA-C-N	-6.00	112.34	119.84
4	s2	233	GLN	C-N-CA	-6.00	112.34	119.84
73	o7	5	THR	CA-C-N	-6.00	112.83	119.19
73	o7	5	THR	C-N-CA	-6.00	112.83	119.19
57	n1	115	LYS	N-CA-C	-5.99	104.87	111.82
43	L6	130	ILE	N-CA-C	5.98	117.30	109.58
49	M3	104	ARG	N-CA-C	-5.93	107.28	114.75
5	S3	219	ALA	CA-C-N	5.93	127.25	119.84
5	S3	219	ALA	C-N-CA	5.93	127.25	119.84
49	M3	47	ALA	CA-C-N	-5.93	112.43	119.84
49	M3	47	ALA	C-N-CA	-5.93	112.43	119.84
4	s2	61	LEU	CA-C-N	5.93	127.25	119.84
4	s2	61	LEU	C-N-CA	5.93	127.25	119.84
72	o6	21	THR	CA-C-N	5.92	126.11	120.31
72	o6	21	THR	C-N-CA	5.92	126.11	120.31
16	C4	124	ASP	N-CA-C	5.92	117.93	110.24
50	m4	53	VAL	CA-C-N	5.90	125.86	119.78
50	m4	53	VAL	C-N-CA	5.90	125.86	119.78
2	S0	167	LYS	CB-CA-C	-5.89	109.76	116.54
44	l7	96	PRO	CA-C-N	5.89	126.04	119.32
44	l7	96	PRO	C-N-CA	5.89	126.04	119.32
55	m9	57	VAL	N-CA-C	5.89	117.06	108.58
51	M5	83	LYS	CA-C-N	-5.88	113.69	120.04
51	M5	83	LYS	C-N-CA	-5.88	113.69	120.04
52	m6	110	PRO	N-CA-C	5.87	117.86	110.70
21	c9	30	VAL	CA-C-N	5.87	125.87	119.89
21	c9	30	VAL	C-N-CA	5.87	125.87	119.89
42	L5	178	ASN	N-CA-C	5.83	123.23	110.80
51	M5	177	GLY	N-CA-C	5.79	120.28	112.17
40	L3	306	THR	CA-C-N	5.78	125.78	119.89
40	L3	306	THR	C-N-CA	5.78	125.78	119.89
43	l6	53	VAL	N-CA-C	5.78	115.92	107.37
39	l2	107	VAL	CA-C-N	5.77	125.68	119.85
39	l2	107	VAL	C-N-CA	5.77	125.68	119.85
47	m0	53	VAL	N-CA-C	5.76	115.90	107.37
40	l3	286	GLY	N-CA-C	5.76	118.10	111.36
42	L5	37	VAL	N-CA-C	5.75	116.40	110.36
63	n7	90	GLU	N-CA-C	5.73	117.22	110.97
4	S2	150	GLN	CA-C-N	5.73	125.73	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	S2	150	GLN	C-N-CA	5.73	125.73	119.89
9	S7	39	ARG	CA-C-N	-5.72	113.86	119.64
9	S7	39	ARG	C-N-CA	-5.72	113.86	119.64
42	l5	235	SER	N-CA-C	-5.71	106.28	113.18
17	C5	130	ARG	N-CA-C	5.69	116.42	108.00
2	S0	67	ILE	CA-C-N	5.68	126.94	119.84
2	S0	67	ILE	C-N-CA	5.68	126.94	119.84
35	SM	37	VAL	CA-C-N	5.67	126.22	120.38
35	SM	37	VAL	C-N-CA	5.67	126.22	120.38
30	d8	30	VAL	N-CA-C	5.66	117.06	108.80
55	m9	89	LEU	CA-C-N	5.65	125.65	119.89
55	m9	89	LEU	C-N-CA	5.65	125.65	119.89
74	O8	70	PRO	CA-C-N	5.64	124.84	118.97
74	O8	70	PRO	C-N-CA	5.64	124.84	118.97
63	N7	32	GLY	N-CA-C	5.63	119.72	112.18
7	S5	66	GLN	CA-C-N	5.63	125.53	119.85
7	S5	66	GLN	C-N-CA	5.63	125.53	119.85
41	L4	266	THR	N-CA-C	-5.62	107.07	114.04
64	N8	46	ASP	N-CA-C	-5.61	101.98	110.28
5	s3	210	GLU	CA-C-N	5.60	126.38	120.11
5	s3	210	GLU	C-N-CA	5.60	126.38	120.11
28	D6	96	ALA	CA-C-N	5.60	126.15	120.38
28	D6	96	ALA	C-N-CA	5.60	126.15	120.38
69	o3	80	VAL	N-CA-C	-5.59	103.96	110.05
44	L7	203	TRP	CA-C-N	5.58	126.82	119.84
44	L7	203	TRP	C-N-CA	5.58	126.82	119.84
31	D9	10	HIS	CA-C-N	5.57	126.80	119.84
31	D9	10	HIS	C-N-CA	5.57	126.80	119.84
17	C5	52	LYS	CA-C-N	-5.57	111.31	120.88
17	C5	52	LYS	C-N-CA	-5.57	111.31	120.88
42	L5	173	VAL	CA-C-N	5.57	125.74	119.90
42	L5	173	VAL	C-N-CA	5.57	125.74	119.90
49	M3	140	SER	CB-CA-C	-5.56	109.06	117.07
76	q0	79	GLU	CA-C-N	5.56	126.79	119.84
76	q0	79	GLU	C-N-CA	5.56	126.79	119.84
45	l8	78	PHE	N-CA-C	-5.55	103.59	110.41
36	1	637	C	P-O3'-C3'	5.54	128.51	120.20
44	L7	119	VAL	N-CA-C	5.54	115.62	107.15
42	l5	135	VAL	N-CA-C	5.53	114.71	106.85
53	m7	51	VAL	N-CA-C	-5.53	105.14	110.72
45	l8	24	ASN	CA-C-N	5.52	126.74	119.84
45	l8	24	ASN	C-N-CA	5.52	126.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	e0	6	GLY	N-CA-C	-5.52	106.17	112.79
52	M6	108	ILE	CA-C-N	5.51	126.06	120.38
52	M6	108	ILE	C-N-CA	5.51	126.06	120.38
8	s6	67	VAL	N-CA-C	-5.51	107.07	111.81
15	C3	22	ALA	CA-C-N	5.50	140.21	127.00
15	C3	22	ALA	C-N-CA	5.50	140.21	127.00
24	d2	55	ASP	N-CA-C	-5.49	102.40	110.52
47	M0	121	LYS	CA-C-N	5.47	125.48	119.90
47	M0	121	LYS	C-N-CA	5.47	125.48	119.90
58	n2	21	SER	CA-C-N	-5.47	113.00	119.84
58	n2	21	SER	C-N-CA	-5.47	113.00	119.84
40	l3	188	ILE	N-CA-C	-5.46	105.05	111.00
11	S9	14	THR	CA-C-N	5.46	125.77	119.93
11	S9	14	THR	C-N-CA	5.46	125.77	119.93
51	m5	185	ALA	N-CA-C	-5.46	106.58	113.18
6	s4	58	GLY	N-CA-C	-5.44	107.57	114.16
45	l8	71	VAL	CA-C-N	5.43	125.98	120.38
45	l8	71	VAL	C-N-CA	5.43	125.98	120.38
20	C8	141	THR	N-CA-C	5.43	117.33	110.33
56	N0	23	LYS	N-CA-C	5.43	120.01	112.90
4	s2	150	GLN	CA-C-N	5.43	126.63	119.84
4	s2	150	GLN	C-N-CA	5.43	126.63	119.84
41	L4	284	SER	N-CA-C	-5.42	106.51	113.23
8	s6	180	THR	CA-C-N	5.42	124.88	119.24
8	s6	180	THR	C-N-CA	5.42	124.88	119.24
57	n1	154	VAL	CA-C-N	5.42	125.41	120.21
57	n1	154	VAL	C-N-CA	5.42	125.41	120.21
29	d7	27	GLY	CA-C-N	5.42	126.90	120.23
29	d7	27	GLY	C-N-CA	5.42	126.90	120.23
49	m3	14	PHE	N-CA-C	5.42	116.18	108.54
67	o1	46	THR	N-CA-C	5.42	116.87	111.07
25	d3	34	LEU	N-CA-C	-5.41	106.06	113.30
41	L4	204	GLY	CA-C-N	5.41	126.60	119.84
41	L4	204	GLY	C-N-CA	5.41	126.60	119.84
23	d1	46	ILE	N-CA-C	5.40	113.50	108.15
76	q0	122	ARG	CA-C-N	-5.40	112.96	120.25
76	q0	122	ARG	C-N-CA	-5.40	112.96	120.25
35	sM	43	ASP	CA-C-N	5.40	124.91	119.19
35	sM	43	ASP	C-N-CA	5.40	124.91	119.19
53	M7	111	LYS	N-CA-C	-5.40	106.70	113.28
78	q2	4	VAL	CA-C-N	5.39	125.66	119.83
78	q2	4	VAL	C-N-CA	5.39	125.66	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	C2	130	THR	CB-CA-C	-5.39	109.38	115.79
22	d0	37	VAL	N-CA-C	-5.39	107.54	111.90
2	S0	10	THR	CA-C-N	5.38	126.56	119.84
2	S0	10	THR	C-N-CA	5.38	126.56	119.84
69	O3	92	LYS	N-CA-C	-5.37	105.46	112.23
23	d1	78	LEU	N-CA-C	-5.37	107.38	114.31
45	l8	41	GLN	CA-C-N	5.37	125.83	120.14
45	l8	41	GLN	C-N-CA	5.37	125.83	120.14
81	p0	76	LEU	N-CA-C	-5.36	106.58	113.23
41	L4	280	ILE	N-CA-C	-5.36	106.62	113.22
13	C1	22	ASN	CA-C-N	5.36	124.81	119.24
13	C1	22	ASN	C-N-CA	5.36	124.81	119.24
12	C0	82	LEU	CA-C-N	5.35	125.35	119.89
12	C0	82	LEU	C-N-CA	5.35	125.35	119.89
6	s4	181	VAL	N-CA-C	5.35	116.18	108.48
47	M0	113	GLN	CA-C-O	5.34	121.04	117.94
83	f	99	PHE	CA-C-N	5.34	131.32	121.70
83	f	99	PHE	C-N-CA	5.34	131.32	121.70
22	d0	97	VAL	N-CA-C	5.34	115.55	110.53
45	L8	125	ALA	N-CA-C	-5.33	105.47	112.72
60	N4	66	GLU	N-CA-C	-5.32	106.29	112.89
28	D6	97	PRO	N-CA-C	5.31	117.18	110.70
45	L8	77	GLN	N-CA-C	-5.31	106.64	113.01
6	S4	28	ALA	CA-C-N	-5.31	114.13	120.13
6	S4	28	ALA	C-N-CA	-5.31	114.13	120.13
32	e0	52	GLY	N-CA-C	-5.29	107.48	114.95
49	M3	140	SER	CA-C-O	5.28	121.00	117.94
40	l3	88	GLY	N-CA-C	5.28	118.42	110.18
36	1	1484	U	P-O3'-C3'	5.28	128.12	120.20
40	L3	98	GLY	N-CA-C	5.28	118.01	110.46
2	s0	151	SER	CA-C-N	5.25	126.40	119.84
2	s0	151	SER	C-N-CA	5.25	126.40	119.84
57	n1	147	VAL	CA-C-N	5.25	126.40	119.84
57	n1	147	VAL	C-N-CA	5.25	126.40	119.84
43	L6	60	ASP	N-CA-C	-5.23	106.74	113.02
76	Q0	79	GLU	CA-C-N	5.23	125.54	119.47
76	Q0	79	GLU	C-N-CA	5.23	125.54	119.47
54	m8	18	ALA	CA-C-N	-5.23	114.85	120.03
54	m8	18	ALA	C-N-CA	-5.23	114.85	120.03
69	O3	22	VAL	N-CA-C	5.23	117.38	108.86
15	C3	22	ALA	C-N-CD	-5.23	109.10	120.60
49	M3	141	ALA	N-CA-C	-5.23	99.66	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	145	ILE	CA-C-N	5.21	126.35	119.84
41	L4	145	ILE	C-N-CA	5.21	126.35	119.84
49	M3	55	ARG	CA-C-N	5.21	125.68	120.52
49	M3	55	ARG	C-N-CA	5.21	125.68	120.52
59	N3	29	SER	N-CA-C	-5.21	107.30	113.97
73	O7	87	SER	N-CA-C	5.21	115.26	108.07
51	M5	43	THR	N-CA-C	-5.21	106.98	113.38
42	l5	18	THR	CA-C-N	5.21	125.94	120.11
42	l5	18	THR	C-N-CA	5.21	125.94	120.11
9	S7	62	VAL	CA-C-N	5.20	126.34	119.84
9	S7	62	VAL	C-N-CA	5.20	126.34	119.84
53	m7	155	GLU	N-CA-C	5.20	114.90	108.19
17	c5	52	LYS	CA-C-N	-5.20	113.34	119.84
17	c5	52	LYS	C-N-CA	-5.20	113.34	119.84
41	L4	192	GLY	N-CA-C	-5.20	107.34	113.99
18	c6	104	GLU	N-CA-C	-5.19	106.79	113.23
70	o4	81	CYS	N-CA-C	5.19	117.06	108.49
44	l7	115	THR	N-CA-C	5.19	116.17	108.86
43	L6	35	VAL	CA-C-N	5.18	126.32	119.84
43	L6	35	VAL	C-N-CA	5.18	126.32	119.84
20	c8	81	ILE	CA-C-N	5.18	125.43	119.83
20	c8	81	ILE	C-N-CA	5.18	125.43	119.83
9	S7	184	GLU	N-CA-C	5.18	115.12	108.34
41	L4	191	LYS	N-CA-C	-5.17	107.64	114.31
62	n6	85	VAL	N-CA-C	5.17	114.05	106.55
17	C5	74	ALA	CA-C-N	5.17	125.16	119.89
17	C5	74	ALA	C-N-CA	5.17	125.16	119.89
33	e1	87	THR	CA-C-N	-5.16	114.64	119.85
33	e1	87	THR	C-N-CA	-5.16	114.64	119.85
24	d2	94	LEU	CA-C-N	5.16	125.46	119.47
24	d2	94	LEU	C-N-CA	5.16	125.46	119.47
16	c4	93	THR	CA-C-N	5.16	125.16	119.90
16	c4	93	THR	C-N-CA	5.16	125.16	119.90
33	E1	147	VAL	N-CA-C	5.16	116.89	109.51
41	l4	221	ASN	CA-C-N	-5.16	118.88	122.59
41	l4	221	ASN	C-N-CA	-5.16	118.88	122.59
49	M3	49	ARG	CA-C-N	-5.15	113.40	119.84
49	M3	49	ARG	C-N-CA	-5.15	113.40	119.84
42	l5	122	VAL	N-CA-C	5.15	115.69	111.62
8	s6	42	GLY	N-CA-C	-5.14	104.25	111.09
22	D0	58	LEU	CA-C-N	5.14	126.27	119.84
22	D0	58	LEU	C-N-CA	5.14	126.27	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	f	69	LYS	N-CA-C	5.14	117.62	109.24
53	M7	156	ALA	CB-CA-C	-5.14	110.63	116.54
9	s7	31	SER	N-CA-C	5.13	121.15	109.81
17	C5	130	ARG	CB-CA-C	-5.13	109.16	116.34
39	L2	166	ILE	N-CA-C	5.13	115.85	108.93
22	d0	120	SER	N-CA-C	5.12	116.10	108.31
42	L5	43	LYS	N-CA-C	-5.12	107.08	113.38
41	L4	131	VAL	N-CA-C	5.12	119.99	109.34
5	s3	202	LEU	CA-C-N	5.12	126.23	119.84
5	s3	202	LEU	C-N-CA	5.12	126.23	119.84
42	l5	134	ALA	N-CA-C	5.11	117.99	110.59
4	s2	107	SER	N-CA-C	-5.10	99.93	110.80
15	c3	8	GLY	N-CA-C	5.10	117.80	111.93
39	L2	91	GLY	N-CA-C	5.10	118.42	110.88
67	O1	52	ALA	CA-C-N	5.09	126.20	119.84
67	O1	52	ALA	C-N-CA	5.09	126.20	119.84
16	c4	119	THR	CA-C-N	5.09	125.25	119.90
16	c4	119	THR	C-N-CA	5.09	125.25	119.90
7	s5	127	GLN	CB-CA-C	-5.09	109.22	116.34
36	1	1329	U	C4'-C3'-O3'	5.08	117.02	109.40
11	s9	124	HIS	N-CA-C	-5.08	105.63	111.07
42	l5	126	GLU	N-CA-C	-5.08	106.39	112.59
12	c0	33	GLU	N-CA-C	-5.08	106.42	113.18
40	L3	255	TRP	N-CA-C	-5.08	105.66	111.14
67	o1	75	ILE	N-CA-C	5.08	114.06	106.85
3	s1	34	ALA	CA-C-N	5.07	125.35	119.92
3	s1	34	ALA	C-N-CA	5.07	125.35	119.92
49	m3	75	PHE	N-CA-C	5.07	120.10	113.30
64	n8	121	VAL	CA-C-N	5.07	126.18	119.84
64	n8	121	VAL	C-N-CA	5.07	126.18	119.84
19	c7	106	THR	N-CA-C	-5.06	105.95	111.82
53	m7	55	GLN	N-CA-C	-5.05	107.67	113.88
59	n3	5	GLY	N-CA-C	-5.05	107.73	115.00
44	L7	53	LYS	N-CA-C	-5.05	105.47	110.97
41	L4	293	SER	N-CA-C	-5.04	108.15	114.56
44	l7	233	GLU	CB-CA-C	-5.04	110.74	116.54
4	s2	94	GLN	N-CA-C	5.04	117.46	109.50
69	O3	90	PRO	N-CA-C	5.04	120.48	113.98
7	S5	126	ASP	CB-CA-C	-5.03	109.30	116.34
40	L3	103	THR	N-CA-C	5.03	115.17	108.38
46	L9	121	LYS	N-CA-C	-5.03	106.99	112.72
6	S4	235	TYR	N-CA-C	-5.02	108.19	114.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	D0	28	SER	N-CA-C	5.02	114.96	107.88
47	m0	135	ILE	CB-CA-C	-5.01	105.88	111.80
73	O7	18	LEU	N-CA-C	5.01	116.64	108.63
56	n0	13	ARG	N-CA-C	-5.01	103.92	110.53
13	c1	61	THR	N-CA-C	5.01	121.46	110.80

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
83	f	51	5CT	C2

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
19	C7	85	VAL	Peptide
39	L2	142	ASP	Peptide
39	L2	19	HIS	Peptide
52	M6	110	PRO	Peptide
65	N9	20	GLY	Peptide
17	c5	52	LYS	Peptide
18	c6	40	GLU	Peptide
40	l3	346	THR	Peptide
53	m7	66	SER	Peptide
56	n0	133	ALA	Peptide
9	s7	130	VAL	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19106	873	0
1	6	38260	0	19250	852	0
2	S0	1577	0	1567	84	0
2	s0	1583	0	1578	92	0
3	S1	1709	0	1784	84	0
3	s1	1722	0	1793	76	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	S2	1635	0	1723	69	0
4	s2	1635	0	1723	85	0
5	S3	1734	0	1817	73	0
5	s3	1734	0	1817	68	0
6	S4	2068	0	2154	97	0
6	s4	2068	0	2154	90	0
7	S5	1609	0	1675	65	0
7	s5	1609	0	1675	75	0
8	S6	1799	0	1879	57	0
8	s6	1755	0	1846	67	0
9	S7	1481	0	1572	61	0
9	s7	1491	0	1578	55	0
10	S8	1489	0	1525	58	0
10	s8	1489	0	1525	55	0
11	S9	1494	0	1573	58	0
11	s9	1494	0	1573	96	0
12	C0	773	0	729	27	0
12	c0	762	0	699	39	0
13	C1	1214	0	1259	43	0
13	c1	1168	0	1231	31	0
14	C2	892	0	891	38	0
14	c2	892	0	891	24	0
15	C3	1192	0	1255	55	0
15	c3	1192	0	1255	48	0
16	C4	891	0	883	51	0
16	c4	949	0	985	46	0
17	C5	977	0	1002	33	0
17	c5	1039	0	1050	49	0
18	C6	1105	0	1166	54	0
18	c6	1111	0	1171	59	0
19	C7	926	0	930	43	0
19	c7	906	0	909	36	0
20	C8	1192	0	1222	46	0
20	c8	1192	0	1222	56	0
21	C9	1112	0	1124	45	0
21	c9	1112	0	1124	41	0
22	D0	855	0	917	46	0
22	d0	882	0	939	30	0
23	D1	684	0	672	49	0
23	d1	684	0	672	39	0
24	D2	1021	0	1060	45	0
24	d2	1021	0	1060	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	D3	1121	0	1196	51	0
25	d3	1121	0	1196	46	0
26	D4	1073	0	1132	41	0
26	d4	1073	0	1132	40	0
27	D5	563	0	603	25	0
27	d5	558	0	598	23	0
28	D6	769	0	814	53	0
28	d6	769	0	814	32	0
29	D7	610	0	630	19	0
29	d7	610	0	631	23	0
30	D8	497	0	535	27	0
30	d8	497	0	535	25	0
31	D9	442	0	428	13	0
31	d9	442	0	428	13	0
32	E0	475	0	525	18	0
32	e0	491	0	542	24	0
33	E1	566	0	601	30	0
33	e1	608	0	656	28	0
34	SR	2436	0	2386	83	0
34	sR	2441	0	2392	73	0
35	SM	1104	0	996	32	0
35	sM	680	0	607	22	0
36	1	67355	0	33846	1394	0
36	5	67376	0	33856	1332	0
37	3	2579	0	1304	56	0
37	7	2579	0	1304	52	0
38	4	3353	0	1695	82	0
38	8	3353	0	1695	79	0
39	L2	1914	0	1981	80	0
39	l2	1912	0	1976	95	0
40	L3	3075	0	3142	161	0
40	l3	3075	0	3142	133	0
41	L4	2748	0	2859	129	0
41	l4	2748	0	2859	118	0
42	L5	2375	0	2325	105	0
42	l5	2359	0	2311	114	0
43	L6	1239	0	1326	56	0
43	l6	1248	0	1339	51	0
44	L7	1784	0	1862	84	0
44	l7	1791	0	1869	69	0
45	L8	1804	0	1875	56	0
45	l8	1764	0	1821	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	L9	1518	0	1587	74	0
46	l9	1518	0	1587	49	0
47	M0	1705	0	1736	87	0
47	m0	1722	0	1755	102	0
48	M1	1353	0	1383	55	0
48	m1	1353	0	1383	39	0
49	M3	1543	0	1608	66	0
49	m3	1548	0	1613	56	0
50	M4	1053	0	1149	60	0
50	m4	1059	0	1154	55	0
51	M5	1720	0	1779	78	0
51	m5	1720	0	1779	70	0
52	M6	1555	0	1659	54	0
52	m6	1555	0	1659	45	0
53	M7	1420	0	1437	68	0
53	m7	1227	0	1236	55	0
54	M8	1441	0	1543	48	0
54	m8	1441	0	1543	51	0
55	M9	1521	0	1616	69	0
55	m9	1521	0	1617	54	0
56	N0	1445	0	1487	64	0
56	n0	1445	0	1487	52	0
57	N1	1276	0	1323	49	0
57	n1	1276	0	1323	51	0
58	N2	796	0	812	26	0
58	n2	778	0	791	28	0
59	N3	1003	0	1048	44	0
59	n3	1003	0	1047	45	0
60	N4	699	0	640	16	0
60	n4	1038	0	1071	30	0
61	N5	964	0	1025	39	0
61	n5	959	0	1023	42	0
62	N6	993	0	1081	53	0
62	n6	993	0	1081	44	0
63	N7	1092	0	1155	56	0
63	n7	1092	0	1155	57	0
64	N8	1173	0	1215	43	0
64	n8	1173	0	1215	66	0
65	N9	462	0	491	9	0
65	n9	462	0	491	21	0
66	O0	742	0	797	31	0
66	o0	766	0	816	22	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
67	O1	876	0	912	22	0
67	o1	883	0	918	30	0
68	O2	1020	0	1090	36	0
68	o2	1020	0	1090	39	0
69	O3	850	0	880	24	0
69	o3	850	0	880	29	0
70	O4	880	0	945	38	0
70	o4	880	0	945	43	0
71	O5	969	0	1078	39	0
71	o5	965	0	1067	42	0
72	O6	771	0	849	28	0
72	o6	770	0	846	28	0
73	O7	681	0	683	32	0
73	o7	681	0	683	31	0
74	O8	612	0	682	20	0
74	o8	608	0	671	24	0
75	O9	436	0	475	27	0
75	o9	436	0	475	24	0
76	Q0	417	0	455	18	0
76	q0	417	0	456	16	0
77	Q1	233	0	284	17	0
77	q1	233	0	284	11	0
78	Q2	847	0	914	28	0
78	q2	847	0	914	34	0
79	Q3	694	0	734	34	0
79	q3	694	0	734	38	0
80	m2	739	0	343	7	0
81	p0	1077	0	1041	32	0
82	p1	235	0	119	0	0
82	p2	230	0	117	2	0
83	f	1122	0	1116	45	0
84	B	59	0	34	0	0
84	C	62	0	33	3	0
85	1	361	0	0	0	0
85	2	90	0	0	0	0
85	3	8	0	0	0	0
85	4	15	0	0	0	0
85	5	415	0	0	0	0
85	6	111	0	0	0	0
85	7	13	0	0	0	0
85	8	10	0	0	0	0
85	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	C	1	0	0	0	0
85	D3	1	0	0	0	0
85	L2	2	0	0	0	0
85	L3	1	0	0	0	0
85	L6	1	0	0	0	0
85	L7	3	0	0	0	0
85	M0	2	0	0	0	0
85	M5	2	0	0	0	0
85	M6	3	0	0	0	0
85	M7	4	0	0	0	0
85	M9	1	0	0	0	0
85	N3	1	0	0	0	0
85	N6	1	0	0	0	0
85	N8	3	0	0	0	0
85	O4	1	0	0	0	0
85	O7	2	0	0	0	0
85	Q2	1	0	0	0	0
85	S2	1	0	0	0	0
85	SM	1	0	0	0	0
85	c8	2	0	0	0	0
85	c9	1	0	0	0	0
85	d2	1	0	0	0	0
85	d3	1	0	0	0	0
85	d6	1	0	0	0	0
85	f	1	0	0	0	0
85	l2	2	0	0	0	0
85	l3	2	0	0	0	0
85	l4	1	0	0	0	0
85	l5	1	0	0	0	0
85	l7	2	0	0	0	0
85	m0	1	0	0	0	0
85	m3	1	0	0	0	0
85	m5	3	0	0	0	0
85	m7	3	0	0	0	0
85	n0	1	0	0	0	0
85	n3	1	0	0	0	0
85	n6	1	0	0	0	0
85	n8	2	0	0	0	0
85	o2	1	0	0	0	0
85	o3	1	0	0	0	0
85	o4	1	0	0	0	0
85	q1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	q2	1	0	0	0	0
85	q3	1	0	0	0	0
85	s4	1	0	0	0	0
85	s8	2	0	0	0	0
86	1	2457	0	0	236	0
86	2	1134	0	0	124	0
86	3	77	0	0	3	0
86	4	126	0	0	14	0
86	5	2492	0	0	243	0
86	6	1204	0	0	118	0
86	7	77	0	0	4	0
86	8	147	0	0	11	0
86	C3	7	0	0	1	0
86	C5	7	0	0	4	0
86	C8	7	0	0	0	0
86	D9	7	0	0	0	0
86	L3	21	0	0	2	0
86	L4	7	0	0	3	0
86	L5	7	0	0	1	0
86	M0	14	0	0	5	0
86	M5	14	0	0	2	0
86	M6	7	0	0	0	0
86	M7	7	0	0	1	0
86	M8	7	0	0	0	0
86	M9	7	0	0	1	0
86	N8	7	0	0	0	0
86	N9	7	0	0	1	0
86	O1	7	0	0	2	0
86	O3	7	0	0	0	0
86	O4	7	0	0	2	0
86	O7	7	0	0	6	0
86	O9	7	0	0	1	0
86	Q2	7	0	0	2	0
86	S1	7	0	0	1	0
86	S6	7	0	0	3	0
86	S8	7	0	0	1	0
86	S9	7	0	0	2	0
86	SR	7	0	0	2	0
86	c3	7	0	0	2	0
86	c5	14	0	0	5	0
86	c8	7	0	0	1	0
86	d4	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	d9	7	0	0	0	0
86	l3	14	0	0	1	0
86	l4	14	0	0	5	0
86	l5	14	0	0	3	0
86	l9	7	0	0	0	0
86	m0	14	0	0	4	0
86	m1	7	0	0	0	0
86	m4	7	0	0	0	0
86	m5	21	0	0	1	0
86	m6	7	0	0	0	0
86	m7	7	0	0	1	0
86	m8	7	0	0	0	0
86	m9	7	0	0	0	0
86	n3	7	0	0	1	0
86	n9	7	0	0	1	0
86	o3	7	0	0	1	0
86	o6	7	0	0	0	0
86	o7	14	0	0	5	0
86	q2	7	0	0	1	0
86	s1	14	0	0	2	0
86	s4	7	0	0	0	0
86	s8	7	0	0	0	0
86	s9	7	0	0	2	0
86	sR	7	0	0	3	0
87	D6	1	0	0	0	0
87	D7	1	0	0	0	0
87	D9	1	0	0	0	0
87	E1	1	0	0	0	0
87	O7	1	0	0	0	0
87	Q0	1	0	0	1	0
87	Q2	1	0	0	0	0
87	Q3	1	0	0	0	0
87	d6	1	0	0	0	0
87	d7	1	0	0	0	0
87	d9	1	0	0	0	0
87	e1	1	0	0	0	0
87	o7	1	0	0	0	0
87	q0	1	0	0	1	0
87	q2	1	0	0	0	0
87	q3	1	0	0	0	0
88	1	23	0	18	1	0
88	5	23	0	18	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
89	1	7	0	7	0	0
89	5	7	0	7	0	0
89	B	7	0	7	0	0
89	C	7	0	7	0	0
90	5	6	0	0	0	0
90	f	6	0	0	0	0
All	All	413121	0	299177	10534	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 15.

All (10534) 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)
76:Q0:96:CYS:SG	76:Q0:99:CYS:SG	2.31	1.29
78:q2:17:CYS:SG	78:q2:77:CYS:SG	2.32	1.27
36:1:2208:A:N1	86:1:3940:OHX:N6	2.03	1.05
36:1:2403:G:OP2	86:1:4071:OHX:N5	1.95	0.99
73:O7:87:SER:O	86:O7:104:OHX:N3	1.96	0.98
76:q0:96:CYS:SG	76:q0:99:CYS:SG	2.62	0.98
36:1:860:G:OP1	79:Q3:17:ARG:NH1	1.98	0.96
36:1:2392:C:O2'	40:L3:266:ARG:NH2	1.98	0.96
83:f:99:PHE:HA	83:f:100:LEU:HB2	1.45	0.95
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.49	0.95
47:m0:49:CYS:HB3	47:m0:168:SER:HB3	1.50	0.94
36:1:25:U:O4	86:1:3766:OHX:N3	2.00	0.94
1:2:992:A:H2	1:2:1012:U:H3	1.15	0.93
1:6:1665:U:O4	86:6:2089:OHX:N6	2.01	0.93
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.02	0.92
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.52	0.92
36:5:437:G:N7	86:5:4171:OHX:N3	2.18	0.91
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.37	0.90
36:5:1213:G:H4'	56:n0:90:MET:HG3	1.52	0.90
36:5:3128:G:OP2	86:5:4072:OHX:N3	2.05	0.89
42:l5:134:ALA:HB2	42:l5:141:PRO:HD3	1.53	0.89
75:O9:10:LYS:HA	75:O9:13:MET:HE3	1.55	0.89
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.06	0.89
36:5:274:G:O6	86:5:3977:OHX:N1	2.04	0.88
36:1:3202:G:O6	86:1:4085:OHX:N1	2.07	0.88
36:5:437:G:N7	86:5:4171:OHX:N5	2.22	0.88
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1537:C:N3	86:6:2124:OHX:N6	2.22	0.88
78:q2:12:CYS:SG	78:q2:17:CYS:HB3	2.13	0.87
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.06	0.87
31:d9:24:CYS:HB3	31:d9:42:CYS:SG	2.14	0.87
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.07	0.87
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.08	0.87
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.57	0.86
1:2:1203:A:OP2	86:2:2080:OHX:N5	2.07	0.86
28:D6:87:ARG:HB3	28:D6:91:ASP:HB3	1.57	0.86
5:S3:94:ARG:NH2	35:SM:134:ASP:OD1	2.08	0.86
36:5:2533:G:O6	86:5:3955:OHX:N1	2.08	0.86
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.09	0.86
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.58	0.86
36:1:1565:G:N2	36:1:1574:C:N3	2.22	0.86
34:sR:89:LEU:HB2	34:sR:103:PHE:HB2	1.53	0.86
75:o9:10:LYS:HA	75:o9:13:MET:HE3	1.57	0.86
36:1:1233:G:H1	36:1:1255:C:H42	1.22	0.85
38:8:142:C:OP1	51:m5:38:ARG:NH1	2.08	0.85
5:s3:70:THR:HG22	5:s3:86:LEU:HB2	1.56	0.85
2:s0:9:LEU:HD11	2:s0:14:ALA:HB2	1.57	0.85
36:5:437:G:H1	36:5:622:A:H61	1.22	0.85
1:6:454:U:H5''	1:6:455:C:H5	1.40	0.85
1:6:895:G:H21	16:c4:38:THR:HG21	1.42	0.85
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.42	0.85
31:d9:21:CYS:HB2	31:d9:39:CYS:HB3	1.59	0.85
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.56	0.85
76:Q0:99:CYS:SG	87:Q0:500:ZN:ZN	1.64	0.85
17:C5:123:TYR:OH	20:C8:126:ARG:NH1	2.10	0.84
36:1:1170:A:OP2	86:1:3854:OHX:N6	2.10	0.84
1:2:218:A:N6	1:2:830:U:O4	2.10	0.84
1:2:320:U:H3'	1:2:321:C:H5''	1.58	0.84
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.42	0.84
6:s4:52:LEU:O	6:s4:54:TYR:N	2.11	0.84
50:m4:55:ARG:NH2	50:m4:76:ALA:O	2.09	0.84
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	1.59	0.84
36:1:2123:G:N7	86:1:4000:OHX:N2	2.26	0.84
73:O7:87:SER:O	86:O7:104:OHX:N5	2.11	0.84
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.11	0.84
36:5:1409:G:O6	86:5:4076:OHX:N6	2.11	0.84
36:5:652:G:OP2	86:5:4084:OHX:N5	2.10	0.84
37:3:17:A:OP1	42:L5:2:ALA:N	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.60	0.83
36:1:1038:C:H4'	42:L5:5:LYS:HZ1	1.44	0.83
36:1:2129:U:O4	86:1:4040:OHX:N3	2.10	0.83
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.11	0.83
36:5:2770:G:N7	86:5:4069:OHX:N5	2.26	0.83
1:2:732:G:N7	86:2:2099:OHX:N3	2.25	0.83
24:D2:83:ILE:HD13	24:D2:122:SER:HB2	1.59	0.83
1:2:702:G:O6	1:2:737:A:N6	2.11	0.83
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.12	0.83
5:S3:125:TYR:OH	35:SM:134:ASP:OD2	1.97	0.83
36:1:329:U:OP2	86:1:3939:OHX:N6	2.12	0.83
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.11	0.83
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.11	0.83
36:5:31:C:OP2	51:m5:188:ARG:NH2	2.11	0.82
36:5:1878:G:OP1	86:5:3873:OHX:N5	2.12	0.82
71:O5:101:THR:HG23	71:O5:104:GLN:HB2	1.61	0.82
19:c7:41:ILE:HD12	19:c7:47:ARG:HG2	1.61	0.82
36:1:2895:G:O2'	76:Q0:100:TYR:O	1.97	0.82
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.42	0.82
36:1:1222:G:O2'	36:1:1285:G:N1	2.12	0.82
8:s6:98:ARG:NH2	8:s6:101:ILE:O	2.12	0.82
43:l6:31:ARG:NH1	69:o3:107:ILE:O	2.13	0.82
1:2:1559:A:H5''	20:C8:135:GLY:HA3	1.60	0.82
26:d4:29:HIS:HB3	26:d4:32:ARG:HB2	1.60	0.82
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.13	0.82
36:1:2120:A:OP2	86:1:3904:OHX:N2	2.12	0.82
41:l4:206:LEU:HB2	41:l4:246:ARG:HD3	1.61	0.82
1:6:753:A:N7	6:s4:187:ARG:NH2	2.28	0.82
36:5:2273:G:O6	86:5:4118:OHX:N5	2.12	0.82
59:n3:48:ARG:HH11	59:n3:48:ARG:HG3	1.43	0.82
1:2:732:G:O6	86:2:2099:OHX:N4	2.13	0.82
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.13	0.82
36:5:2621:G:O2'	83:f:53:GLY:O	1.97	0.82
41:l4:144:LYS:O	86:l4:402:OHX:N1	2.13	0.82
83:f:51:5CT:H9	84:C:75:C:H4'	1.62	0.82
86:5:3918:OHX:N6	44:l7:217:PRO:O	2.13	0.82
44:L7:150:LYS:HG2	44:L7:151:ARG:HG2	1.60	0.82
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.12	0.81
83:f:110:LYS:NZ	83:f:112:ASP:OD1	2.13	0.81
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.62	0.81
36:1:1481:A:O2'	36:1:1858:A:N3	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:269:SER:O	41:L4:271:LYS:N	2.13	0.81
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.12	0.81
47:m0:150:GLU:HG2	47:m0:153:ARG:HH21	1.44	0.81
64:n8:65:GLN:O	64:n8:67:HIS:N	2.12	0.81
36:1:1887:A:OP1	86:1:3981:OHX:N3	2.13	0.81
1:6:565:C:N3	86:6:2123:OHX:N4	2.29	0.81
36:1:3188:G:O6	86:1:4085:OHX:N3	2.14	0.81
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.14	0.81
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.63	0.81
36:1:3050:U:OP2	86:1:4082:OHX:N6	2.14	0.81
36:5:155:G:H5''	36:5:156:G:C8	2.15	0.81
41:l4:93:MET:H	41:l4:93:MET:HE2	1.44	0.81
1:6:329:G:H5''	10:s8:98:LYS:HB3	1.61	0.81
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.60	0.81
36:5:2812:C:H2'	36:5:2813:A:H8	1.42	0.81
36:5:3274:A:H3'	36:5:3275:U:H5''	1.62	0.81
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.63	0.81
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.13	0.81
83:f:20:PRO:HA	83:f:81:GLU:HA	1.61	0.81
1:2:732:G:O6	86:2:2099:OHX:N6	2.14	0.81
36:1:2234:G:O6	86:1:3940:OHX:N1	2.15	0.80
40:L3:171:LEU:O	86:L3:403:OHX:N6	2.13	0.80
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.15	0.80
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.45	0.80
4:s2:179:VAL:O	4:s2:198:THR:OG1	1.98	0.80
9:S7:89:HIS:HD1	9:S7:168:SER:HG	1.29	0.80
36:5:838:G:O6	79:q3:4:ARG:NH2	2.15	0.80
40:l3:152:LYS:HG2	40:l3:192:VAL:HG11	1.64	0.80
1:6:470:A:OP2	86:6:2069:OHX:N1	2.14	0.80
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.62	0.80
36:1:3049:A:H5''	40:L3:53:MET:HG3	1.62	0.80
1:2:1029:U:O4	86:2:2120:OHX:N3	2.15	0.80
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.29	0.80
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.63	0.80
36:1:409:A:OP2	86:1:3950:OHX:N6	2.15	0.80
36:1:1752:A:OP2	86:1:3942:OHX:N5	2.15	0.80
86:1:3978:OHX:N4	55:M9:14:VAL:O	2.15	0.80
1:6:33:U:O4	86:6:2054:OHX:N2	2.15	0.80
1:6:151:G:N2	8:s6:13:GLN:OE1	2.15	0.80
41:l4:20:LEU:HD23	41:l4:21:PRO:HD2	1.62	0.80
1:2:349:U:O4	86:2:2097:OHX:N3	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1067:C:H5''	3:S1:150:VAL:HG23	1.60	0.80
44:l7:151:ARG:NH1	44:l7:244:ASN:O	2.14	0.80
68:o2:101:SER:OG	68:o2:104:ASN:OD1	2.00	0.80
36:1:2970:C:O2'	86:1:4060:OHX:N1	2.15	0.80
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.13	0.80
1:6:1280:C:H2'	1:6:1281:G:C8	2.17	0.80
1:6:1542:G:N2	1:6:1569:A:OP2	2.14	0.80
1:2:878:G:N7	86:2:2049:OHX:N2	2.30	0.80
4:S2:78:ASP:HB3	4:S2:104:VAL:HG12	1.64	0.80
4:s2:56:ILE:HG23	4:s2:61:LEU:HB2	1.63	0.80
47:M0:43:VAL:HG21	47:M0:197:VAL:HB	1.63	0.79
17:c5:138:PHE:O	86:c5:202:OHX:N4	2.14	0.79
18:c6:82:ARG:HH22	18:c6:114:ARG:HG3	1.46	0.79
36:5:2169:G:O6	86:5:3870:OHX:N5	2.15	0.79
62:n6:47:ALA:O	62:n6:122:LYS:NZ	2.15	0.79
30:d8:8:THR:HG1	30:d8:59:SER:HG	1.23	0.79
70:o4:41:ARG:HG2	70:o4:56:THR:HG21	1.62	0.79
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.15	0.79
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.15	0.79
1:6:74:U:H3'	1:6:75:U:H3'	1.64	0.79
36:5:1555:U:O4	36:5:1557:A:N6	2.16	0.79
36:5:1942:U:OP2	55:m9:74:ARG:NH1	2.14	0.79
1:2:1246:C:OP2	86:2:2127:OHX:N4	2.16	0.79
36:5:2704:A:OP2	86:5:3817:OHX:N5	2.14	0.79
1:2:1542:G:N2	1:2:1569:A:OP2	2.15	0.79
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	1.65	0.79
36:5:1686:U:OP1	58:n2:42:LYS:NZ	2.15	0.79
39:l2:30:ARG:NH2	39:l2:33:ASP:OD2	2.15	0.79
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.63	0.79
1:6:936:G:N7	28:d6:15:ARG:NH1	2.31	0.79
7:s5:81:ARG:HH21	30:d8:47:PRO:HB3	1.48	0.79
36:5:2123:G:O6	86:5:4009:OHX:N1	2.16	0.79
1:6:741:C:O2	9:s7:107:ARG:NH2	2.16	0.79
36:5:2404:A:N7	36:5:2872:A:N6	2.31	0.79
36:5:2945:G:N7	86:5:4058:OHX:N2	2.30	0.79
15:C3:4:MET:HE1	15:C3:121:ARG:HG3	1.63	0.79
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.65	0.78
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.64	0.78
1:6:833:U:O4	86:6:2067:OHX:N5	2.16	0.78
1:2:579:A:OP2	5:S3:179:GLN:NE2	2.17	0.78
86:1:3854:OHX:N6	44:L7:217:PRO:O	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:61:GLU:HG2	10:s8:62:THR:HG23	1.65	0.78
13:c1:60:PHE:O	13:c1:62:GLY:N	2.15	0.78
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.63	0.78
36:5:3153:U:H4'	36:5:3154:C:H5'	1.65	0.78
19:C7:27:ASP:O	19:C7:31:ASN:ND2	2.12	0.78
36:1:1808:G:O6	86:1:3877:OHX:N3	2.16	0.78
36:5:1677:G:N7	58:n2:74:LYS:NZ	2.31	0.78
36:5:3045:G:OP1	40:l3:19:ARG:NH2	2.16	0.78
75:o9:24:PRO:HB2	75:o9:27:ILE:HD12	1.65	0.78
1:6:877:G:H5'	1:6:937:C:H1'	1.65	0.78
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.17	0.78
72:o6:58:ILE:HG22	72:o6:90:MET:HG3	1.65	0.78
1:6:1280:C:H2'	1:6:1281:G:H8	1.48	0.78
1:6:1369:U:OP1	21:c9:119:LYS:NZ	2.16	0.78
1:6:1720:G:O6	86:6:2060:OHX:N6	2.16	0.78
13:c1:125:VAL:HG12	13:c1:139:VAL:HA	1.66	0.78
15:c3:65:VAL:HG23	15:c3:66:ILE:HG23	1.65	0.78
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.63	0.78
78:q2:73:GLU:OE1	78:q2:80:ARG:NH1	2.17	0.78
36:1:2371:G:O6	86:1:3768:OHX:N5	2.16	0.78
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.16	0.78
63:n7:25:ILE:HA	63:n7:43:VAL:HG12	1.66	0.78
43:L6:175:LYS:HD3	50:M4:111:ALA:HA	1.64	0.78
40:l3:291:GLU:OE1	40:l3:302:LYS:NZ	2.17	0.78
53:M7:169:THR:H	69:O3:60:ARG:HH11	1.31	0.78
58:n2:43:VAL:O	58:n2:45:GLY:N	2.16	0.78
55:M9:176:ARG:HA	55:M9:179:GLU:HB2	1.65	0.77
26:d4:29:HIS:O	26:d4:31:ASN:N	2.17	0.77
36:5:2569:A:H4'	36:5:2570:U:H5'	1.66	0.77
40:l3:346:THR:O	40:l3:348:ARG:N	2.13	0.77
59:n3:23:MET:HE3	59:n3:100:GLY:HA3	1.65	0.77
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.16	0.77
1:6:1321:A:OP2	2:s0:101:ARG:NH2	2.17	0.77
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.18	0.77
27:d5:71:ILE:HG23	27:d5:73:GLY:H	1.49	0.77
36:5:1752:A:OP2	86:5:3992:OHX:N6	2.16	0.77
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.66	0.77
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.16	0.77
1:6:58:U:O2'	1:6:451:A:N3	2.15	0.77
1:6:1060:U:H4'	1:6:1061:A:H5''	1.66	0.77
26:d4:38:ASP:OD1	26:d4:52:LYS:NZ	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:10:ARG:HH12	48:m1:133:ARG:HH21	1.33	0.77
83:f:100:LEU:HD13	83:f:102:LEU:HD21	1.67	0.77
48:m1:28:ASP:OD2	48:m1:32:ARG:NH2	2.18	0.77
49:m3:157:ARG:HH11	64:n8:124:ILE:HG21	1.50	0.77
23:D1:42:GLU:O	23:D1:44:ARG:NH1	2.17	0.77
36:1:883:A:H5'	53:M7:133:HIS:HA	1.66	0.77
1:6:357:G:OP2	86:6:2041:OHX:N4	2.18	0.77
73:o7:48:ASN:OD1	73:o7:54:LYS:NZ	2.17	0.77
36:1:2531:C:N4	36:1:2548:C:O2	2.17	0.77
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.65	0.77
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.16	0.77
1:6:1588:G:H1	1:6:1608:U:H3	1.33	0.77
38:8:95:G:OP2	73:o7:72:ARG:NH1	2.17	0.77
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.48	0.77
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.67	0.77
1:6:197:A:H2'	1:6:198:A:H8	1.49	0.77
36:5:1759:C:N4	36:5:1766:G:O6	2.16	0.77
36:5:2233:A:OP2	86:5:3878:OHX:N5	2.18	0.77
36:5:3194:C:O2	36:5:3197:G:N2	2.18	0.77
3:S1:229:MET:SD	3:S1:232:HIS:ND1	2.55	0.77
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.50	0.77
25:d3:70:LYS:HB3	25:d3:93:LEU:HD22	1.67	0.77
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.18	0.77
36:1:3275:U:H5'	69:O3:68:TRP:HZ2	1.50	0.77
42:L5:177:GLU:O	42:L5:179:ARG:N	2.16	0.77
56:N0:77:VAL:HG13	56:N0:126:VAL:HG22	1.66	0.77
1:6:1385:G:N7	86:6:2087:OHX:N6	2.32	0.77
2:s0:88:LYS:NZ	19:c7:82:ASP:OD1	2.18	0.77
34:SR:258:THR:O	34:SR:275:ARG:NH1	2.17	0.76
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.65	0.76
36:1:2178:A:H3'	39:L2:132:ASN:HD21	1.51	0.76
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.67	0.76
44:l7:88:ARG:NH1	44:l7:91:GLY:O	2.18	0.76
36:1:722:G:OP1	86:1:4098:OHX:N6	2.18	0.76
47:M0:221:ALA:O	86:M0:304:OHX:N4	2.19	0.76
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.18	0.76
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.50	0.76
36:1:13:A:OP2	86:1:4102:OHX:N5	2.19	0.76
36:1:2823:G:O6	86:1:3800:OHX:N1	2.18	0.76
36:1:3049:A:OP2	86:1:4082:OHX:N4	2.19	0.76
36:1:3087:A:OP1	86:1:4082:OHX:N2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:116:VAL:HG22	45:L8:125:ALA:HB3	1.68	0.76
1:6:647:G:N2	1:6:687:G:H22	1.82	0.76
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.66	0.76
36:5:2836:C:H5	36:5:2852:C:H42	1.34	0.76
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.66	0.76
59:N3:40:LYS:HG3	59:N3:57:MET:HE2	1.66	0.76
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.19	0.76
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.17	0.76
76:q0:99:CYS:SG	87:q0:500:ZN:ZN	1.73	0.76
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.19	0.76
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.68	0.76
36:5:2533:G:O6	86:5:3955:OHX:N5	2.19	0.76
36:5:2761:G:N7	78:q2:63:LYS:NZ	2.32	0.76
1:2:1202:A:OP1	86:2:2080:OHX:N5	2.19	0.76
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.67	0.76
55:M9:105:LEU:HD12	55:M9:135:LYS:HD2	1.66	0.76
17:c5:138:PHE:O	86:c5:202:OHX:N2	2.19	0.76
36:5:96:G:OP1	49:m3:15:ARG:NH2	2.17	0.76
41:l4:203:ARG:NH1	41:l4:226:GLU:OE2	2.19	0.76
36:1:1304:A:N6	36:1:2860:U:OP1	2.20	0.75
52:M6:98:ALA:HA	52:M6:101:ARG:HD2	1.68	0.75
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.66	0.75
1:6:1735:U:O4	86:6:2089:OHX:N5	2.19	0.75
36:5:72:C:H5'	49:m3:63:VAL:HG22	1.65	0.75
36:5:2537:U:O2'	36:5:2538:U:O4'	2.04	0.75
63:n7:101:PHE:HA	63:n7:107:ARG:HE	1.52	0.75
1:2:1018:U:H2'	1:2:1019:A:H8	1.52	0.75
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.69	0.75
36:1:2296:A:OP1	86:1:4046:OHX:N2	2.18	0.75
36:1:3020:U:O4	86:1:3884:OHX:N4	2.19	0.75
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.68	0.75
36:5:2534:G:H1	36:5:2545:C:H42	1.33	0.75
36:5:2841:G:OP2	86:5:4046:OHX:N1	2.19	0.75
37:7:121:U:OP2	42:l5:265:TYR:OH	2.02	0.75
68:o2:100:ILE:O	68:o2:105:ARG:NH1	2.19	0.75
78:q2:8:ARG:HH21	78:q2:83:LEU:HD13	1.51	0.75
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.68	0.75
1:2:788:A:OP2	6:S4:108:ARG:NH1	2.19	0.75
40:L3:25:ILE:HD13	40:L3:25:ILE:H	1.50	0.75
1:6:1413:U:O2	86:6:2053:OHX:N5	2.19	0.75
20:C8:120:ARG:NH2	35:SM:58:GLU:OE2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:568:G:N7	25:d3:69:ARG:NH2	2.35	0.75
36:5:1194:G:OP1	86:5:3929:OHX:N6	2.20	0.75
51:m5:178:HIS:HD2	51:m5:179:LYS:HG2	1.51	0.75
1:2:1670:G:N7	86:2:2092:OHX:N3	2.35	0.75
17:C5:69:GLU:OE1	86:C5:201:OHX:N4	2.20	0.75
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.33	0.75
36:1:3095:U:H2'	36:1:3096:C:H6	1.52	0.75
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	1.69	0.75
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.68	0.75
36:5:2138:A:HO2'	73:o7:2:GLY:N	1.84	0.75
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.19	0.75
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.19	0.75
1:2:478:A:HO2'	11:S9:124:HIS:HD1	1.33	0.75
1:2:982:U:OP1	86:2:2106:OHX:N1	2.19	0.75
1:2:1473:U:O2'	7:S5:103:ASN:ND2	2.20	0.75
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.67	0.75
41:L4:338:LYS:O	41:L4:340:GLY:N	2.19	0.75
1:6:93:A:H1'	6:s4:3:ARG:HB3	1.67	0.75
1:6:1034:C:HO2'	24:d2:2:THR:N	1.85	0.75
33:e1:82:LYS:O	33:e1:84:VAL:N	2.20	0.75
36:5:3374:U:O4	86:5:3949:OHX:N3	2.19	0.75
1:2:1522:U:OP2	86:2:2026:OHX:N3	2.20	0.75
1:2:1537:C:N3	86:2:2131:OHX:N5	2.34	0.75
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.15	0.75
36:1:2748:A:H1'	42:L5:36:LEU:HD23	1.69	0.75
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.68	0.75
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.51	0.75
1:6:523:G:OP2	26:d4:37:LYS:NZ	2.19	0.75
1:6:761:G:O6	86:6:2050:OHX:N1	2.20	0.75
36:1:1019:G:O6	86:1:3952:OHX:N1	2.19	0.75
1:6:40:A:OP1	11:s9:3:ARG:NH1	2.19	0.75
36:5:2442:G:N2	36:5:2506:U:O4	2.20	0.75
47:m0:156:ARG:NH1	47:m0:163:GLN:O	2.20	0.75
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.19	0.74
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.19	0.74
1:6:628:G:N1	1:6:970:A:OP2	2.19	0.74
1:6:918:U:H2'	1:6:919:A:H8	1.52	0.74
11:s9:117:GLY:O	11:s9:119:ALA:N	2.19	0.74
38:8:68:G:P	73:o7:88:ALA:HB3	2.26	0.74
67:o1:44:MET:O	67:o1:46:THR:N	2.19	0.74
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:88:PRO:HG2	67:O1:89:LEU:HD22	1.68	0.74
36:5:1239:C:H42	36:5:1249:G:H1	1.33	0.74
1:2:651:G:O6	86:2:2072:OHX:N4	2.21	0.74
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.69	0.74
1:6:1571:C:OP2	86:6:2124:OHX:N2	2.20	0.74
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.69	0.74
36:1:979:U:H1'	36:1:980:A:C8	2.23	0.74
36:1:2112:U:O2	86:1:3855:OHX:N1	2.21	0.74
5:s3:222:VAL:HG11	34:sR:229:LYS:HA	1.69	0.74
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	1.69	0.74
38:8:155:A:H5'	45:l8:185:ARG:HD2	1.67	0.74
66:o0:75:ASN:HA	66:o0:86:ARG:HB2	1.67	0.74
36:1:148:G:OP2	51:M5:4:TYR:OH	2.04	0.74
36:1:1841:A:H2	75:O9:45:ARG:HH22	1.35	0.74
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.20	0.74
86:1:3785:OHX:N5	57:N1:13:TYR:O	2.20	0.74
1:6:1097:U:H4'	1:6:1098:U:H5'	1.69	0.74
1:6:1318:G:N7	86:6:2131:OHX:N5	2.36	0.74
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.20	0.74
21:c9:9:VAL:HG21	21:c9:136:ALA:HB1	1.69	0.74
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.21	0.74
8:S6:153:VAL:O	8:S6:155:ASP:N	2.20	0.74
11:S9:107:ARG:NH2	11:S9:148:VAL:O	2.20	0.74
5:s3:102:ALA:HB1	5:s3:173:ARG:HG3	1.69	0.74
1:2:1280:C:H2'	1:2:1281:G:C8	2.23	0.74
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.17	0.74
52:m6:36:VAL:HB	52:m6:108:ILE:HG22	1.69	0.74
1:2:346:G:O6	86:2:2095:OHX:N5	2.21	0.74
36:1:1672:U:OP1	55:M9:60:LYS:NZ	2.21	0.74
36:5:285:A:OP2	86:5:3895:OHX:N5	2.20	0.74
58:n2:28:PHE:HE1	58:n2:83:TYR:HE2	1.36	0.74
17:C5:69:GLU:OE1	86:C5:201:OHX:N6	2.19	0.74
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.20	0.74
36:5:2251:G:N2	36:5:2265:C:O2	2.18	0.74
43:l6:55:LEU:HB2	43:l6:64:LEU:HB3	1.70	0.74
47:m0:72:ALA:HB2	47:m0:155:ALA:HB2	1.69	0.74
1:2:1280:C:H2'	1:2:1281:G:H8	1.51	0.74
15:C3:17:PRO:HG3	29:D7:28:PRO:HG3	1.70	0.74
36:1:2859:U:O2'	86:1:3763:OHX:N4	2.21	0.74
36:1:3376:A:OP2	86:1:3803:OHX:N5	2.20	0.74
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:40:A:O2'	86:6:2074:OHX:N1	2.21	0.74
39:l2:83:HIS:HB3	79:q3:64:VAL:HG13	1.69	0.74
47:m0:87:LEU:HD23	47:m0:138:VAL:HG22	1.70	0.74
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.69	0.74
78:q2:74:CYS:SG	78:q2:77:CYS:SG	2.86	0.74
36:1:1807:G:H5''	63:N7:135:ARG:HH22	1.53	0.73
36:1:3375:A:O2'	36:1:3378:C:OP2	2.06	0.73
37:3:112:G:OP2	86:3:214:OHX:N3	2.20	0.73
1:6:67:A:O2'	1:6:69:G:OP1	2.03	0.73
1:6:1486:G:OP2	86:6:2083:OHX:N3	2.20	0.73
42:l5:297:GLN:OE1	86:l5:303:OHX:N3	2.20	0.73
14:C2:54:ARG:HH21	33:E1:127:GLY:HA3	1.54	0.73
20:C8:69:ILE:HG22	20:C8:73:MET:HE2	1.68	0.73
36:1:2403:G:OP2	86:1:4071:OHX:N3	2.21	0.73
36:1:2403:G:OP2	86:1:4071:OHX:N1	2.20	0.73
1:6:1237:G:H1	1:6:1248:C:H42	1.35	0.73
2:s0:55:GLU:HG2	23:d1:79:LEU:HD22	1.69	0.73
21:c9:84:LYS:HD3	21:c9:94:ILE:HG13	1.69	0.73
36:5:3126:C:OP1	86:5:4117:OHX:N5	2.21	0.73
1:2:87:C:O2'	1:2:169:A:N1	2.21	0.73
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.70	0.73
64:N8:96:LYS:O	64:N8:98:THR:N	2.21	0.73
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.68	0.73
36:5:2371:G:O6	86:5:3826:OHX:N4	2.21	0.73
1:2:583:C:OP1	86:2:1994:OHX:N3	2.22	0.73
1:2:1745:G:O6	86:2:2055:OHX:N6	2.22	0.73
53:M7:32:THR:HG22	53:M7:58:ILE:HG13	1.69	0.73
40:l3:218:ILE:HG12	40:l3:276:THR:HG23	1.70	0.73
42:l5:50:ARG:HG2	42:l5:147:ASP:HB2	1.69	0.73
36:1:562:C:OP2	50:M4:77:ARG:NH1	2.19	0.73
13:c1:59:PRO:HB3	13:c1:66:ILE:HD11	1.70	0.73
36:5:309:U:OP1	72:o6:84:LYS:NZ	2.19	0.73
36:5:1615:C:H2'	36:5:1616:U:H6	1.54	0.73
1:2:381:C:O2'	1:2:755:A:N1	2.22	0.73
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.70	0.73
36:1:2318:U:O4	86:1:3936:OHX:N2	2.21	0.73
36:1:2960:C:OP1	86:1:3897:OHX:N4	2.21	0.73
41:L4:3:ARG:O	41:L4:5:GLN:N	2.22	0.73
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.71	0.73
1:6:1035:G:OP1	15:c3:2:GLY:N	2.22	0.73
1:6:1395:G:O6	86:6:2055:OHX:N1	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1637:C:OP2	86:6:2081:OHX:N4	2.20	0.73
11:s9:23:ARG:NH1	11:s9:27:GLU:OE2	2.21	0.73
13:c1:101:GLU:OE2	25:d3:16:ARG:NH2	2.22	0.73
36:5:3074:G:O6	86:5:4014:OHX:N4	2.22	0.73
43:l6:52:VAL:HG11	43:l6:65:ILE:HG23	1.70	0.73
1:2:738:G:O6	86:2:2066:OHX:N1	2.22	0.73
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.70	0.73
36:5:964:G:OP1	86:5:3923:OHX:N1	2.20	0.73
38:8:55:U:O2	86:8:218:OHX:N5	2.22	0.73
59:n3:2:SER:N	59:n3:56:ASP:OD1	2.21	0.73
78:q2:15:LYS:HA	78:q2:18:ARG:HH11	1.52	0.73
1:2:700:C:H42	1:2:738:G:H1	1.34	0.73
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.71	0.73
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.71	0.73
36:1:410:U:O4	86:1:3950:OHX:N6	2.21	0.73
36:1:1477:A:OP1	36:1:3075:G:O2'	2.07	0.73
47:M0:221:ALA:O	86:M0:304:OHX:N2	2.21	0.73
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.53	0.73
36:5:1778:G:O2'	36:5:1780:G:OP2	2.06	0.73
1:2:1230:A:H2'	1:2:1258:U:H5	1.54	0.73
1:2:1413:U:O2	86:2:2039:OHX:N3	2.21	0.73
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.21	0.73
36:1:2974:U:O4	86:1:3991:OHX:N2	2.21	0.73
36:5:213:A:OP1	62:n6:2:ALA:N	2.22	0.73
36:5:899:U:O4	86:5:3879:OHX:N5	2.22	0.73
36:5:900:G:H1'	36:5:1589:A:N6	2.04	0.73
36:5:3214:U:OP2	50:m4:128:ARG:NH2	2.22	0.73
8:S6:137:ARG:HH21	8:S6:177:ARG:HE	1.36	0.72
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	1.70	0.72
2:s0:112:THR:HG23	2:s0:114:SER:H	1.52	0.72
5:S3:178:ARG:HE	5:S3:178:ARG:H	1.34	0.72
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.52	0.72
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.22	0.72
1:6:1745:G:O6	86:6:2044:OHX:N4	2.21	0.72
12:c0:54:TYR:HD2	12:c0:72:GLY:HA2	1.54	0.72
36:5:2169:G:O6	86:5:3870:OHX:N1	2.22	0.72
45:l8:54:GLU:HG2	45:l8:57:ARG:HH12	1.53	0.72
1:2:1537:C:O2'	1:2:1540:G:O6	2.07	0.72
36:1:439:C:H3'	36:1:440:A:H8	1.54	0.72
1:6:1158:C:H42	1:6:1163:A:H61	1.36	0.72
3:s1:51:SER:HB3	3:s1:57:ALA:H	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:5:3915:OHX:N4	37:7:86:U:O2	2.22	0.72
36:1:3060:C:OP1	86:1:3935:OHX:N4	2.23	0.72
41:L4:193:LYS:HA	41:L4:198:ARG:HA	1.72	0.72
42:L5:227:LEU:O	42:L5:229:ASP:N	2.22	0.72
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.22	0.72
36:5:128:G:O6	86:5:3849:OHX:N4	2.23	0.72
36:5:2181:C:OP1	39:l2:193:ARG:NH2	2.22	0.72
36:5:3294:A:OP1	40:l3:128:LYS:NZ	2.22	0.72
37:7:1:G:O2'	42:l5:270:LYS:HB3	1.89	0.72
49:M3:79:GLU:OE1	49:M3:112:ASN:ND2	2.21	0.72
9:s7:66:SER:O	9:s7:68:ALA:N	2.20	0.72
17:c5:129:GLY:HA3	35:sM:74:LYS:HG2	1.72	0.72
17:c5:137:ARG:O	86:c5:202:OHX:N4	2.22	0.72
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.23	0.72
75:o9:5:LYS:HD2	75:o9:13:MET:HE1	1.72	0.72
1:2:190:C:N4	1:2:196:G:O6	2.23	0.72
1:2:1533:C:OP2	27:D5:77:ARG:NH2	2.23	0.72
36:1:368:G:OP1	86:1:3779:OHX:N5	2.23	0.72
36:1:517:G:O6	86:1:4003:OHX:N5	2.22	0.72
36:1:2535:A:H61	36:1:2544:U:H3	1.36	0.72
39:L2:52:SER:HB3	39:L2:191:LEU:HD22	1.72	0.72
1:6:709:C:O2	1:6:730:G:N2	2.23	0.72
39:l2:133:TYR:HB3	39:l2:168:VAL:HB	1.72	0.72
43:l6:146:ILE:HG22	43:l6:150:LYS:HE3	1.72	0.72
1:6:1383:G:OP1	22:d0:89:ARG:NH2	2.23	0.72
6:S4:191:ARG:HD3	6:S4:245:LYS:HB2	1.70	0.72
17:C5:60:LEU:HD21	17:C5:92:SER:HB3	1.71	0.72
74:O8:9:LYS:NZ	74:O8:13:GLU:OE2	2.23	0.72
79:Q3:59:CYS:O	79:Q3:61:LYS:N	2.19	0.72
1:6:591:A:H2'	1:6:592:A:C8	2.24	0.72
49:m3:74:GLY:O	49:m3:101:ARG:NH1	2.23	0.72
60:n4:13:ILE:HG12	60:n4:32:GLN:HB2	1.72	0.72
62:n6:112:ASP:HB3	62:n6:115:ARG:HB2	1.71	0.72
36:1:2225:U:H2'	36:1:2226:U:H6	1.55	0.72
74:O8:69:LEU:HD12	74:O8:73:LEU:HD23	1.71	0.72
3:s1:36:SER:OG	3:s1:231:LEU:O	2.06	0.72
36:5:770:G:N7	86:5:4005:OHX:N6	2.38	0.72
36:5:2151:C:OP1	86:5:4172:OHX:N4	2.22	0.72
36:5:2996:U:H4'	36:5:2996:U:OP1	1.90	0.72
42:l5:297:GLN:OE1	86:l5:303:OHX:N4	2.22	0.72
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1669:U:OP2	86:2:2092:OHX:N6	2.22	0.71
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.71	0.71
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.54	0.71
1:2:329:G:H5''	10:S8:98:LYS:HB3	1.72	0.71
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	2.09	0.71
1:6:1727:G:H2'	1:6:1728:A:C8	2.25	0.71
36:5:1534:A:OP1	86:5:3839:OHX:N1	2.23	0.71
38:8:97:A:OP1	71:o5:63:ARG:NH2	2.22	0.71
42:L5:68:THR:HG22	42:L5:70:THR:H	1.55	0.71
1:2:25:C:O2	86:2:2052:OHX:N1	2.23	0.71
25:D3:91:GLY:O	25:D3:93:LEU:N	2.22	0.71
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.23	0.71
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.71	0.71
1:6:280:U:OP2	60:n4:113:LYS:NZ	2.23	0.71
36:5:1430:U:O4	64:n8:3:SER:OG	2.08	0.71
36:5:2940:A:N7	40:l3:2:SER:N	2.38	0.71
1:2:1665:U:O4	86:2:2108:OHX:N3	2.23	0.71
36:1:560:G:OP1	50:M4:83:LYS:NZ	2.23	0.71
40:L3:346:THR:O	40:L3:348:ARG:N	2.24	0.71
20:c8:28:ILE:HD11	20:c8:56:LYS:HB2	1.72	0.71
1:2:151:G:O6	26:D4:124:ARG:NH2	2.23	0.71
36:1:3155:U:H3'	36:1:3156:U:H4'	1.71	0.71
37:3:60:G:H2'	37:3:61:G:H8	1.56	0.71
27:d5:66:VAL:HA	27:d5:71:ILE:HG22	1.71	0.71
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.55	0.71
49:M3:168:ARG:HH21	49:M3:172:LEU:HD21	1.56	0.71
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.55	0.71
1:6:75:U:O2'	1:6:76:A:O5'	2.05	0.71
1:6:454:U:H5''	1:6:455:C:C5	2.26	0.71
3:s1:190:PRO:HG2	3:s1:192:VAL:HG23	1.72	0.71
36:5:914:A:C2	39:l2:204:MET:HG2	2.26	0.71
36:5:2157:G:N7	39:l2:152:SER:OG	2.22	0.71
80:m2:120:ASP:O	80:m2:122:ILE:N	2.24	0.71
1:2:222:A:H61	1:2:839:U:H3	1.37	0.71
48:M1:107:ASP:OD1	48:M1:107:ASP:N	2.21	0.71
33:e1:139:LEU:HB2	33:e1:151:ASN:HB3	1.70	0.71
73:o7:88:ALA:HA	86:o7:502:OHX:N3	2.05	0.71
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.24	0.71
1:2:703:G:H1	1:2:735:C:H42	1.37	0.71
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	1.73	0.71
36:1:2964:G:N7	86:1:3958:OHX:N1	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:4:ARG:HD3	40:L3:7:GLU:HA	1.71	0.71
1:6:205:U:O4	86:6:2095:OHX:N6	2.23	0.71
4:s2:153:SER:OG	4:s2:154:LEU:N	2.24	0.71
34:sR:93:ASP:OD2	34:sR:100:TYR:OH	2.08	0.71
36:5:3290:G:N7	86:5:4011:OHX:N5	2.39	0.71
63:n7:23:VAL:HG12	63:n7:45:GLY:HA3	1.73	0.71
69:o3:59:VAL:O	69:o3:61:GLY:N	2.23	0.71
1:2:1571:C:OP2	86:2:2131:OHX:N2	2.24	0.71
5:S3:44:THR:HB	5:S3:45:LYS:HG3	1.73	0.71
13:C1:77:SER:HB3	13:C1:85:VAL:HB	1.73	0.71
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.54	0.71
66:O0:22:LYS:HB2	66:O0:93:LEU:HB2	1.72	0.71
1:6:1722:A:OP2	86:6:2058:OHX:N1	2.24	0.71
36:5:652:G:OP2	86:5:4084:OHX:N3	2.23	0.71
60:n4:6:ASP:HB3	60:n4:11:ALA:H	1.56	0.71
1:2:1588:G:H1	1:2:1608:U:H3	1.38	0.70
19:C7:20:TYR:CG	19:C7:38:ILE:HD11	2.26	0.70
36:1:1134:G:O2'	36:1:2642:A:N3	2.19	0.70
36:1:1938:U:O4	86:1:3811:OHX:N5	2.24	0.70
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	1.73	0.70
1:6:652:G:N2	1:6:683:C:N3	2.39	0.70
2:s0:22:THR:HG21	2:s0:173:ILE:HD11	1.73	0.70
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	1.73	0.70
36:5:618:C:O2'	36:5:621:A:N3	2.20	0.70
78:q2:17:CYS:HB2	78:q2:77:CYS:SG	2.31	0.70
1:2:1235:C:H5'	33:E1:146:SER:HB2	1.70	0.70
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.73	0.70
25:D3:63:GLN:HA	25:D3:65:ASN:H	1.57	0.70
40:L3:323:MET:HE1	40:L3:356:LEU:HD11	1.71	0.70
51:M5:94:TYR:CE1	51:M5:96:ARG:HB2	2.27	0.70
78:Q2:50:PHE:O	86:Q2:503:OHX:N2	2.24	0.70
47:m0:72:ALA:O	47:m0:76:MET:HG3	1.90	0.70
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.24	0.70
36:1:3085:G:OP1	60:N4:34:SER:OG	2.08	0.70
63:N7:27:LYS:HG3	63:N7:29:HIS:HE1	1.55	0.70
18:c6:37:THR:O	18:c6:45:ARG:NH1	2.24	0.70
38:8:141:C:OP2	86:8:231:OHX:N6	2.25	0.70
60:n4:9:SER:HB2	60:n4:51:TRP:CZ3	2.26	0.70
25:D3:28:ASN:N	25:D3:28:ASN:OD1	2.25	0.70
46:L9:47:LYS:HZ2	50:M4:6:ILE:H	1.39	0.70
1:6:143:G:N7	8:s6:177:ARG:NH2	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:699:U:O4	86:6:2040:OHX:N1	2.24	0.70
1:6:1380:U:O2'	1:6:1516:A:N1	2.24	0.70
1:6:1765:A:OP1	86:6:2092:OHX:N2	2.23	0.70
14:c2:48:SER:OG	14:c2:120:VAL:O	2.08	0.70
38:8:80:A:H2	38:8:83:C:H41	1.37	0.70
63:n7:16:GLY:O	63:n7:18:TYR:N	2.25	0.70
33:E1:144:CYS:HB3	33:E1:147:VAL:HG13	1.72	0.70
36:1:551:A:O2'	36:1:552:G:O5'	2.10	0.70
38:4:150:G:N7	86:4:221:OHX:N4	2.39	0.70
50:M4:25:LYS:HE3	50:M4:62:GLN:HA	1.74	0.70
21:c9:37:VAL:HG12	21:c9:39:THR:H	1.56	0.70
40:l3:167:ARG:O	86:l3:403:OHX:N5	2.24	0.70
1:2:364:G:OP1	86:2:2074:OHX:N2	2.24	0.70
36:1:900:G:H1'	36:1:1589:A:N6	2.05	0.70
47:M0:42:THR:HG23	47:M0:45:GLU:HB2	1.74	0.70
51:M5:91:GLU:OE1	86:M5:303:OHX:N5	2.25	0.70
53:M7:25:SER:O	53:M7:29:THR:HG23	1.90	0.70
1:6:1449:U:O4	86:6:2039:OHX:N2	2.25	0.70
44:l7:224:ILE:HG23	56:n0:36:ILE:HG12	1.71	0.70
1:2:993:A:OP1	1:2:1777:G:N2	2.22	0.70
7:S5:206:SER:O	7:S5:212:LYS:NZ	2.24	0.70
21:C9:52:GLY:O	21:C9:54:PHE:N	2.22	0.70
36:1:361:A:OP1	73:O7:24:ARG:NH1	2.23	0.70
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.74	0.70
47:m0:55:ASN:HA	47:m0:131:ILE:HG23	1.73	0.70
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.25	0.70
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.74	0.70
45:L8:78:PHE:C	45:L8:80:TYR:H	1.99	0.70
73:O7:88:ALA:O	86:O7:104:OHX:N1	2.24	0.70
1:6:1087:A:H2'	1:6:1088:A:C8	2.27	0.70
11:s9:113:VAL:HG12	11:s9:119:ALA:HB2	1.73	0.70
18:c6:106:LYS:O	18:c6:110:THR:OG1	2.10	0.70
68:o2:41:VAL:HG12	68:o2:46:PHE:HB2	1.74	0.70
36:1:299:G:N7	86:1:3974:OHX:N2	2.39	0.70
36:1:2269:U:O2'	36:1:2271:A:N7	2.24	0.70
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.24	0.70
70:O4:64:THR:OG1	86:O4:202:OHX:N3	2.24	0.70
1:6:822:U:H2'	1:6:823:G:H5''	1.73	0.70
4:s2:56:ILE:HA	4:s2:61:LEU:HD12	1.72	0.70
12:c0:44:LYS:HD3	12:c0:47:GLN:HG2	1.73	0.70
36:5:1765:U:H4'	36:5:1765:U:OP1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3329:U:OP1	40:l3:376:LYS:NZ	2.23	0.70
1:2:987:G:C2	39:L2:249:SER:HB2	2.26	0.70
1:2:1488:G:H3'	1:2:1515:A:H61	1.56	0.70
86:5:3918:OHX:N3	44:l7:217:PRO:O	2.24	0.70
71:o5:118:ILE:HG22	71:o5:119:LYS:H	1.55	0.70
36:1:686:G:OP2	49:M3:39:ARG:NH2	2.25	0.69
36:1:3066:U:O4	86:1:4033:OHX:N5	2.25	0.69
53:M7:56:ARG:NH1	53:M7:75:GLU:OE2	2.21	0.69
1:6:1202:A:OP1	86:6:2096:OHX:N2	2.25	0.69
36:5:172:G:O6	86:5:3989:OHX:N4	2.25	0.69
36:5:920:A:OP1	36:5:922:U:H5	1.75	0.69
36:5:3352:U:O2	86:5:4154:OHX:N5	2.25	0.69
52:m6:130:LYS:HD3	52:m6:131:PRO:HD2	1.74	0.69
56:n0:134:ASP:O	56:n0:136:LYS:NZ	2.25	0.69
62:n6:39:LEU:HD22	62:n6:43:TYR:HE2	1.55	0.69
64:n8:103:ASP:HB3	64:n8:106:ALA:HB3	1.72	0.69
3:s1:24:PHE:HA	3:s1:27:LYS:HG2	1.74	0.69
36:5:2287:C:O2	86:5:3862:OHX:N5	2.25	0.69
78:q2:12:CYS:SG	78:q2:17:CYS:CB	2.80	0.69
79:q3:84:ARG:HG3	79:q3:87:ARG:HH22	1.56	0.69
1:2:1478:G:OP1	21:C9:39:THR:OG1	2.07	0.69
36:1:678:G:O6	86:1:3868:OHX:N4	2.25	0.69
7:s5:43:PHE:N	7:s5:46:TRP:O	2.25	0.69
21:c9:28:LEU:HA	21:c9:111:ILE:HD11	1.74	0.69
36:5:863:C:OP1	86:5:3834:OHX:N3	2.24	0.69
49:m3:123:ILE:HG22	71:o5:118:ILE:HG23	1.73	0.69
45:L8:109:LEU:O	45:L8:113:ALA:N	2.25	0.69
52:M6:140:LYS:NZ	52:M6:150:GLU:OE1	2.22	0.69
1:6:74:U:C4	1:6:76:A:H5''	2.28	0.69
14:c2:87:PRO:HA	14:c2:140:PHE:HE1	1.57	0.69
36:5:1565:G:N1	36:5:1574:C:N3	2.40	0.69
39:l2:118:GLU:HG3	39:l2:126:LEU:HD21	1.74	0.69
73:o7:88:ALA:HA	86:o7:502:OHX:N6	2.06	0.69
1:2:1662:G:O6	86:2:2008:OHX:N3	2.25	0.69
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.11	0.69
25:D3:144:ARG:HD2	25:D3:145:SER:H	1.57	0.69
36:1:116:A:OP1	72:O6:36:ARG:NH1	2.25	0.69
66:O0:16:LEU:HD13	66:O0:97:ASP:HB3	1.74	0.69
1:6:1312:A:N7	19:c7:2:GLY:N	2.39	0.69
16:c4:50:ALA:O	16:c4:52:ARG:N	2.24	0.69
36:5:665:A:H1'	49:m3:14:PHE:HE1	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:2:G:O2'	37:7:23:A:N1	2.24	0.69
44:l7:168:ILE:O	44:l7:172:ASN:ND2	2.25	0.69
47:m0:190:VAL:HG13	47:m0:197:VAL:HG21	1.74	0.69
68:o2:123:LYS:HA	68:o2:126:LEU:HD12	1.73	0.69
47:M0:220:GLN:O	86:M0:304:OHX:N1	2.25	0.69
1:6:1067:C:H5''	3:s1:150:VAL:HG23	1.75	0.69
24:d2:18:GLU:HG3	24:d2:69:LEU:HD23	1.73	0.69
63:n7:102:GLU:H	63:n7:107:ARG:HH21	1.39	0.69
1:2:1358:G:H2'	1:2:1359:C:C6	2.27	0.69
36:1:1208:U:O4	86:1:3921:OHX:N5	2.26	0.69
36:1:2250:G:O6	86:1:3826:OHX:N6	2.25	0.69
36:1:2836:C:H5	36:1:2852:C:H42	1.39	0.69
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.58	0.69
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	1.75	0.69
24:d2:5:SER:O	24:d2:7:LEU:N	2.26	0.69
36:5:368:G:OP1	86:5:3841:OHX:N4	2.26	0.69
36:5:1634:G:N7	63:n7:17:ARG:NH2	2.41	0.69
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.74	0.69
5:S3:94:ARG:HH21	35:SM:134:ASP:CG	1.99	0.69
26:D4:3:ASP:O	26:D4:5:VAL:N	2.26	0.69
36:1:1238:C:N4	36:1:1245:A:OP2	2.25	0.69
36:1:1724:U:H1'	36:1:1725:C:C6	2.28	0.69
36:1:1758:G:H1	36:1:1767:C:H42	1.39	0.69
36:1:2315:G:OP2	86:1:3897:OHX:N3	2.26	0.69
62:N6:36:SER:HB3	62:N6:105:VAL:HG13	1.73	0.69
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.25	0.69
1:6:58:U:O4	86:6:2056:OHX:N2	2.26	0.69
1:6:123:G:H21	6:s4:146:THR:HG21	1.58	0.69
1:6:800:U:H2'	1:6:801:G:C8	2.27	0.69
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.73	0.69
34:sR:156:VAL:HA	34:sR:169:ILE:HG22	1.75	0.69
35:sM:31:SER:OG	36:5:2667:A:OP1	2.08	0.69
36:5:283:G:OP2	36:5:285:A:O2'	2.08	0.69
36:5:1231:A:H5''	36:5:1232:C:H5'	1.74	0.69
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.26	0.69
62:n6:32:SER:HA	62:n6:49:PRO:HA	1.73	0.69
36:1:343:U:OP2	86:1:3779:OHX:N6	2.26	0.69
36:1:2404:A:H5'	36:1:2404:A:H8	1.56	0.69
2:s0:119:ARG:HB3	2:s0:119:ARG:HH11	1.58	0.69
13:c1:111:VAL:HG23	13:c1:139:VAL:HG21	1.74	0.69
41:l4:145:ILE:O	86:l4:402:OHX:N3	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:295:GLY:O	86:l5:303:OHX:N4	2.26	0.69
1:2:1595:U:H3	1:2:1600:A:H2	1.39	0.69
1:2:1642:G:O6	86:2:1991:OHX:N6	2.26	0.69
28:D6:12:LYS:HE2	28:D6:16:GLY:H	1.59	0.69
44:L7:140:SER:HB3	44:L7:237:ASN:HD21	1.57	0.69
74:O8:24:THR:HG22	74:O8:76:ASN:HB3	1.75	0.69
15:c3:76:LYS:HA	15:c3:81:ALA:HB2	1.75	0.69
16:c4:115:ILE:HG21	28:d6:44:ILE:HG21	1.75	0.69
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.25	0.69
36:5:2556:C:O2'	63:n7:135:ARG:NH2	2.25	0.69
1:2:621:A:N3	1:2:1107:G:H1'	2.08	0.68
13:C1:90:TYR:OH	13:C1:105:LYS:NZ	2.26	0.68
36:1:194:U:H2'	36:1:195:U:H6	1.58	0.68
36:1:3284:G:OP1	86:1:4048:OHX:N3	2.26	0.68
44:L7:80:GLN:HB2	57:N1:135:PRO:HB2	1.76	0.68
1:6:318:U:O4	86:6:2127:OHX:N4	2.27	0.68
1:6:482:U:H3	1:6:505:A:H61	1.37	0.68
1:6:1336:A:OP1	86:6:2149:OHX:N1	2.26	0.68
34:sR:280:GLY:O	86:sR:401:OHX:N4	2.27	0.68
36:5:289:A:C2	51:m5:93:LYS:HG3	2.28	0.68
36:5:2568:C:N4	36:5:2574:G:O6	2.26	0.68
83:f:109:THR:HG23	83:f:110:LYS:HB2	1.75	0.68
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.58	0.68
3:S1:157:GLN:O	3:S1:159:SER:N	2.26	0.68
6:S4:240:LYS:H	6:S4:240:LYS:HE2	1.59	0.68
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.73	0.68
36:1:1245:A:H3'	36:1:1246:G:H5''	1.73	0.68
36:1:2208:A:N1	86:1:3940:OHX:N4	2.40	0.68
36:1:3350:C:H2'	36:1:3351:U:H3'	1.75	0.68
36:1:3377:G:O6	86:1:3932:OHX:N2	2.26	0.68
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.20	0.68
36:5:1552:G:OP2	86:5:4170:OHX:N3	2.25	0.68
41:l4:203:ARG:HH21	41:l4:240:PRO:HB3	1.58	0.68
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.76	0.68
6:S4:90:ILE:HB	6:S4:99:PHE:HB2	1.74	0.68
36:1:618:C:H5'	53:M7:169:THR:HG22	1.75	0.68
36:1:1464:G:N7	86:O1:201:OHX:N6	2.41	0.68
40:L3:3:HIS:O	40:L3:5:LYS:N	2.27	0.68
47:M0:215:GLU:O	86:M0:304:OHX:N6	2.25	0.68
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.25	0.68
15:c3:67:THR:O	15:c3:67:THR:OG1	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1160:A:H2'	1:2:1161:C:C6	2.29	0.68
1:2:1456:C:H5''	1:2:1457:C:H5''	1.75	0.68
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.74	0.68
49:M3:83:ALA:HB2	49:M3:113:VAL:HG13	1.75	0.68
1:6:1050:G:O6	86:6:2180:OHX:N4	2.27	0.68
36:5:1019:G:O6	86:5:4149:OHX:N2	2.27	0.68
36:5:1334:U:H5''	44:17:206:LYS:HB3	1.76	0.68
36:5:2823:G:N7	86:5:3869:OHX:N2	2.40	0.68
39:12:242:ARG:HD3	39:12:246:LEU:HD12	1.75	0.68
2:S0:121:VAL:HG23	2:S0:141:ILE:HG21	1.75	0.68
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.74	0.68
11:S9:168:ARG:HG2	11:S9:170:GLY:H	1.58	0.68
57:n1:18:ASP:OD2	57:n1:18:ASP:N	2.24	0.68
1:2:1518:C:OP2	86:2:2089:OHX:N2	2.26	0.68
36:1:385:A:H2'	36:1:386:A:C8	2.29	0.68
36:1:2255:A:OP1	86:1:3830:OHX:N3	2.26	0.68
38:4:136:G:OP1	61:N5:48:SER:OG	2.12	0.68
42:L5:205:SER:HB2	42:L5:233:ALA:HB1	1.74	0.68
55:M9:171:ASP:HA	55:M9:174:ALA:HB3	1.76	0.68
1:6:800:U:H2'	1:6:801:G:H8	1.59	0.68
23:d1:74:GLN:NE2	23:d1:83:TRP:O	2.26	0.68
36:5:201:A:OP2	86:5:3902:OHX:N3	2.27	0.68
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.39	0.68
36:1:1234:G:O6	86:1:3999:OHX:N5	2.26	0.68
36:1:2984:C:H2'	36:1:2985:C:H6	1.58	0.68
54:M8:157:PRO:HD3	64:N8:47:LYS:HB2	1.74	0.68
1:6:1206:U:OP1	86:6:2094:OHX:N6	2.26	0.68
1:6:1370:U:O4	86:6:2110:OHX:N4	2.27	0.68
3:s1:157:GLN:OE1	86:s1:301:OHX:N3	2.26	0.68
36:5:2269:U:H5''	83:f:62:ILE:HD11	1.76	0.68
36:5:3309:G:O6	40:l3:21:ARG:NH2	2.25	0.68
40:l3:139:GLN:O	40:l3:141:GLY:N	2.26	0.68
1:2:290:G:O6	86:2:2128:OHX:N5	2.26	0.68
1:2:1773:C:OP2	77:Q1:2:ARG:NH1	2.26	0.68
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.75	0.68
15:C3:72:MET:HE1	15:C3:82:PRO:HD2	1.76	0.68
36:1:437:G:H22	36:1:622:A:H61	1.42	0.68
36:1:718:G:OP1	64:N8:117:ARG:NH2	2.27	0.68
36:1:1230:G:H1	36:1:1279:C:H42	1.41	0.68
36:1:1587:A:OP1	86:1:3839:OHX:N6	2.26	0.68
36:1:2403:G:O6	86:1:4076:OHX:N3	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:738:G:O6	86:6:2040:OHX:N1	2.27	0.68
1:6:1060:U:O2'	86:6:2156:OHX:N5	2.27	0.68
36:5:13:A:H4'	61:n5:39:LYS:HG3	1.76	0.68
36:5:552:G:O6	86:5:3912:OHX:N5	2.27	0.68
36:5:604:G:N7	86:5:4082:OHX:N2	2.42	0.68
86:5:4104:OHX:N3	70:o4:64:THR:OG1	2.26	0.68
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.09	0.68
48:M1:109:HIS:CD2	48:M1:123:PHE:H	2.11	0.68
67:O1:54:GLU:OE2	67:O1:54:GLU:N	2.27	0.68
2:s0:110:TYR:O	2:s0:112:THR:N	2.27	0.68
17:c5:67:ALA:O	86:c5:201:OHX:N2	2.27	0.68
36:5:23:A:H2'	36:5:24:G:C8	2.29	0.68
36:5:3242:G:H5''	36:5:3245:A:H8	1.58	0.68
41:l4:300:ARG:O	54:m8:39:ARG:NH1	2.27	0.68
2:S0:119:ARG:HB3	2:S0:119:ARG:HH11	1.59	0.68
3:S1:183:GLN:HG2	3:S1:187:LYS:HE3	1.75	0.68
25:D3:75:GLN:HG3	25:D3:82:LYS:HG3	1.74	0.68
36:1:2217:U:H2'	36:1:2218:G:H8	1.59	0.68
38:4:103:G:O6	86:4:217:OHX:N6	2.27	0.68
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.27	0.68
46:L9:172:ILE:HD13	46:L9:172:ILE:H	1.58	0.68
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.26	0.68
1:6:197:A:H61	10:s8:138:ASN:HD22	1.40	0.68
9:s7:28:GLU:HG2	9:s7:35:LYS:HA	1.74	0.68
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.75	0.68
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.76	0.68
1:2:207:U:O2	10:S8:178:ARG:NH1	2.27	0.67
2:S0:26:ALA:H	2:S0:149:LEU:HD12	1.59	0.67
8:S6:155:ASP:OD1	86:S6:301:OHX:N6	2.27	0.67
11:S9:92:LYS:O	11:S9:94:ASP:N	2.22	0.67
36:1:2193:U:H5'	36:1:2194:G:H5'	1.76	0.67
62:N6:3:LYS:HG3	62:N6:8:VAL:HG13	1.76	0.67
36:5:651:G:O2'	36:5:1435:A:OP1	2.12	0.67
36:5:1170:A:OP2	86:5:3918:OHX:N4	2.27	0.67
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.26	0.67
41:l4:362:ASP:OD1	86:l4:403:OHX:N1	2.27	0.67
47:m0:174:THR:OG1	47:m0:175:ASN:O	2.11	0.67
1:2:1550:A:OP2	17:C5:42:ARG:NH2	2.27	0.67
36:1:2522:G:O6	39:L2:70:ARG:NH2	2.27	0.67
36:1:3253:G:O6	86:1:3949:OHX:N5	2.27	0.67
1:6:1058:U:H4'	1:6:1059:U:OP1	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:c9:86:ARG:HD2	21:c9:92:LYS:HG2	1.75	0.67
36:5:2552:C:H2'	66:o0:50:VAL:HG11	1.75	0.67
36:5:2762:A:OP2	86:5:3904:OHX:N2	2.27	0.67
42:l5:270:LYS:HE3	42:l5:273:ARG:HA	1.75	0.67
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.28	0.67
62:N6:36:SER:O	62:N6:39:LEU:N	2.25	0.67
36:5:209:A:H4'	36:5:211:A:C8	2.29	0.67
36:5:2510:U:O2'	36:5:2511:A:O5'	2.10	0.67
36:5:2983:C:OP1	86:5:4153:OHX:N6	2.28	0.67
36:5:3312:U:OP1	86:5:3935:OHX:N1	2.28	0.67
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.75	0.67
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.77	0.67
36:1:2213:A:H2'	36:1:2214:A:C8	2.29	0.67
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.28	0.67
69:O3:13:HIS:NE2	69:O3:28:SER:OG	2.27	0.67
1:6:252:U:H4'	6:s4:131:LEU:HD12	1.76	0.67
1:6:915:A:OP1	86:6:2037:OHX:N4	2.28	0.67
7:s5:23:VAL:O	7:s5:34:GLN:NE2	2.27	0.67
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.76	0.67
25:d3:47:SER:OG	25:d3:48:HIS:ND1	2.25	0.67
36:5:172:G:O6	86:5:3989:OHX:N2	2.27	0.67
36:5:1806:A:OP2	86:5:3939:OHX:N5	2.28	0.67
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.75	0.67
1:2:565:C:O2	86:2:2006:OHX:N5	2.27	0.67
1:2:972:G:O2'	36:1:847:A:N1	2.27	0.67
1:2:1186:U:OP1	1:2:1456:C:O2'	2.12	0.67
1:2:1339:C:O2'	1:2:1341:A:N7	2.27	0.67
1:2:1564:U:H2'	1:2:1565:C:C6	2.30	0.67
14:C2:87:PRO:HA	14:C2:140:PHE:HE1	1.59	0.67
36:1:2946:A:H5''	36:1:2947:G:H5'	1.76	0.67
60:N4:45:ASN:HB3	60:N4:48:ARG:HG3	1.77	0.67
1:6:1690:G:H1	1:6:1711:C:H42	1.42	0.67
37:7:44:C:H4'	42:l5:152:ARG:HG3	1.76	0.67
44:l7:88:ARG:HA	44:l7:134:VAL:HG12	1.76	0.67
48:m1:52:TYR:HA	48:m1:61:ARG:HG3	1.77	0.67
41:L4:64:SER:HA	41:L4:75:PRO:HA	1.77	0.67
34:sR:207:ASP:OD1	34:sR:209:THR:OG1	2.12	0.67
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.30	0.67
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.76	0.67
36:1:3108:G:H21	46:L9:163:GLN:HE22	1.41	0.67
1:6:454:U:H3'	1:6:455:C:H6	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:888:U:H1'	16:c4:126:THR:HG21	1.75	0.67
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.75	0.67
36:5:1734:G:N7	86:5:3885:OHX:N5	2.42	0.67
36:5:1769:G:O6	86:5:4140:OHX:N2	2.28	0.67
36:5:2294:U:OP2	59:n3:71:LYS:NZ	2.27	0.67
36:5:2392:C:O2'	40:l3:266:ARG:NH2	2.25	0.67
38:8:102:U:H2'	38:8:103:G:C8	2.30	0.67
39:l2:3:ARG:HG2	39:l2:4:VAL:H	1.60	0.67
49:m3:56:PRO:HG3	49:m3:74:GLY:O	1.94	0.67
51:m5:96:ARG:NH2	51:m5:104:GLU:OE1	2.27	0.67
58:n2:12:ALA:HB2	58:n2:68:THR:HG23	1.75	0.67
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.28	0.67
64:n8:128:ARG:HB2	72:o6:8:ALA:HB2	1.76	0.67
75:o9:23:LEU:HD11	75:o9:35:ILE:HG22	1.77	0.67
1:2:477:A:H61	1:2:511:A:H61	1.43	0.67
1:2:777:C:H5	26:D4:10:ARG:HH12	1.42	0.67
1:2:1797:A:N7	28:D6:87:ARG:NH1	2.43	0.67
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.75	0.67
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.76	0.67
36:1:385:A:H2'	36:1:386:A:H8	1.58	0.67
49:M3:126:PHE:O	71:O5:114:ARG:NH2	2.25	0.67
56:N0:133:ALA:HA	56:N0:141:LYS:HZ3	1.59	0.67
1:6:422:G:OP1	86:6:2022:OHX:N3	2.28	0.67
1:6:1156:C:OP1	86:6:2132:OHX:N1	2.28	0.67
86:6:2103:OHX:N3	10:s8:52:ASN:OD1	2.28	0.67
36:5:173:G:H1'	36:5:174:C:H5'	1.77	0.67
41:l4:26:PHE:HD1	41:l4:130:ALA:HB2	1.60	0.67
43:l6:3:ALA:HB1	68:o2:75:LEU:HD13	1.76	0.67
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.26	0.67
9:S7:138:LYS:O	9:S7:139:ARG:NE	2.28	0.67
36:1:1765:U:H5''	55:M9:43:LYS:HE2	1.77	0.67
36:1:2356:A:H5'	53:M7:138:LYS:HE2	1.76	0.67
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.28	0.67
49:M3:140:SER:OG	49:M3:141:ALA:N	2.28	0.67
73:O7:17:THR:HG22	73:O7:18:LEU:H	1.58	0.67
1:6:1239:U:O4	86:6:2063:OHX:N5	2.26	0.67
29:d7:36:LYS:HE2	29:d7:43:ILE:HG22	1.77	0.67
36:5:409:A:OP2	86:5:4012:OHX:N3	2.28	0.67
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.28	0.67
42:l5:211:LEU:HB3	42:l5:219:PHE:HB2	1.76	0.67
58:n2:50:LEU:O	58:n2:52:ASN:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:o7:88:ALA:O	86:o7:502:OHX:N3	2.28	0.67
83:f:119:GLU:H	83:f:123:SER:HB3	1.59	0.67
36:1:3224:G:O6	86:1:3789:OHX:N4	2.28	0.67
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.60	0.67
41:L4:337:GLU:HB2	41:L4:339:LEU:HD23	1.75	0.67
36:5:2369:G:OP2	86:5:3826:OHX:N5	2.28	0.67
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.28	0.67
45:l8:133:LYS:HB2	45:l8:199:ALA:O	1.95	0.67
59:n3:32:ARG:NH1	59:n3:32:ARG:O	2.28	0.67
83:f:101:SER:HB3	83:f:102:LEU:HA	1.77	0.67
25:D3:92:CYS:HG	25:D3:136:TRP:CD1	2.13	0.66
36:1:2108:C:O2'	36:1:3362:A:N6	2.27	0.66
36:1:3191:G:O6	86:1:4027:OHX:N3	2.27	0.66
43:L6:50:LYS:HE3	43:L6:72:ASN:HB2	1.76	0.66
42:l5:38:THR:HG23	57:n1:30:TYR:HB3	1.76	0.66
83:f:92:LEU:HA	83:f:102:LEU:HD13	1.77	0.66
1:2:738:G:O6	86:2:2066:OHX:N4	2.29	0.66
1:2:819:G:O2'	1:2:821:U:OP2	2.13	0.66
4:S2:56:ILE:HA	4:S2:61:LEU:HD12	1.77	0.66
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.28	0.66
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.28	0.66
36:1:1502:C:OP1	86:1:3774:OHX:N3	2.29	0.66
36:1:1953:G:O6	36:1:2094:C:N4	2.25	0.66
40:L3:185:GLY:O	40:L3:191:LYS:NZ	2.27	0.66
42:L5:284:ALA:HA	42:L5:287:ALA:HB3	1.76	0.66
1:6:65:A:O2'	1:6:67:A:OP2	2.11	0.66
23:d1:3:ASN:ND2	23:d1:7:GLN:O	2.28	0.66
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.77	0.66
37:7:7:G:OP1	42:l5:33:ARG:NH1	2.29	0.66
55:m9:13:SER:OG	55:m9:38:ARG:NH1	2.22	0.66
78:q2:45:ARG:O	78:q2:48:SER:OG	2.12	0.66
36:1:2746:A:H2	42:L5:146:LEU:HB3	1.60	0.66
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.27	0.66
63:N7:26:VAL:HG21	63:N7:96:VAL:HB	1.78	0.66
70:O4:100:ILE:HA	70:O4:103:LYS:HG2	1.78	0.66
75:O9:23:LEU:HD23	75:O9:24:PRO:HD2	1.77	0.66
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.28	0.66
38:8:79:A:H3'	38:8:80:A:C8	2.31	0.66
40:l3:186:GLY:O	40:l3:190:GLU:HB2	1.94	0.66
41:l4:122:THR:HG22	41:l4:235:LEU:HB2	1.77	0.66
48:m1:15:GLU:HB3	48:m1:130:VAL:HG22	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:f:51:5CT:H13	84:C:75:C:O3'	1.96	0.66
36:1:3050:U:O2'	60:N4:16:GLY:O	2.13	0.66
36:5:2546:C:H2'	36:5:2547:A:H8	1.60	0.66
36:5:2818:U:H5'	36:5:2818:U:H6	1.61	0.66
62:n6:87:LYS:HB2	62:n6:97:ILE:HD11	1.75	0.66
1:2:1274:C:H41	35:SM:95:SER:HA	1.59	0.66
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.77	0.66
34:SR:38:ARG:HA	34:SR:67:ILE:HG23	1.78	0.66
36:1:64:G:OP2	51:M5:169:LYS:NZ	2.28	0.66
36:1:1769:G:O6	86:1:4067:OHX:N4	2.28	0.66
37:3:121:U:H3	42:L5:268:GLU:HB3	1.59	0.66
40:L3:204:ALA:O	40:L3:207:SER:OG	2.13	0.66
1:6:4:C:O2'	11:s9:17:ARG:NH1	2.27	0.66
1:6:79:C:OP1	8:s6:159:ARG:NH2	2.26	0.66
36:5:652:G:OP2	86:5:4084:OHX:N6	2.28	0.66
36:5:1912:U:N3	36:5:2122:G:OP2	2.26	0.66
45:l8:33:ASN:O	45:l8:35:GLY:N	2.29	0.66
45:l8:91:PHE:O	45:l8:95:ASN:ND2	2.27	0.66
53:m7:120:ASN:N	53:m7:120:ASN:OD1	2.29	0.66
62:n6:56:VAL:HG11	62:n6:104:LEU:HD13	1.78	0.66
63:n7:46:ILE:HA	63:n7:70:PRO:HA	1.78	0.66
8:S6:148:SER:O	8:S6:150:GLU:N	2.28	0.66
36:1:729:C:H2'	36:1:730:C:H6	1.60	0.66
36:1:2669:G:N7	86:1:3964:OHX:N4	2.44	0.66
41:L4:143:GLU:O	86:L4:401:OHX:N2	2.29	0.66
1:6:197:A:H2'	1:6:198:A:C8	2.29	0.66
1:6:1459:C:H2'	20:c8:138:THR:HB	1.78	0.66
5:s3:72:LEU:HD22	12:c0:65:TYR:HD1	1.59	0.66
9:s7:144:VAL:HG22	24:d2:49:GLU:HB3	1.78	0.66
10:s8:20:GLN:NE2	10:s8:22:ARG:O	2.29	0.66
18:c6:79:TYR:HA	18:c6:82:ARG:HG2	1.76	0.66
25:d3:54:LEU:HD21	25:d3:75:GLN:HB2	1.77	0.66
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.28	0.66
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.77	0.66
1:2:878:G:O2'	15:C3:108:ASP:OD2	2.13	0.66
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.31	0.66
36:1:1721:U:OP2	55:M9:124:TYR:OH	2.08	0.66
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.78	0.66
1:6:1738:U:O4	86:6:2028:OHX:N5	2.28	0.66
36:5:1587:A:OP1	86:5:3906:OHX:N5	2.28	0.66
88:5:3403:SPS:H81	84:C:76:8AN:H8	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:326:ARG:O	44:l7:41:ARG:NH2	2.28	0.66
42:l5:177:GLU:O	42:l5:179:ARG:N	2.26	0.66
45:l8:153:ILE:HG22	45:l8:197:VAL:HG12	1.76	0.66
56:n0:27:MET:HE3	56:n0:29:ILE:HD11	1.77	0.66
63:n7:77:TYR:HA	63:n7:80:LEU:HD12	1.77	0.66
8:S6:180:THR:HG23	8:S6:183:ARG:H	1.61	0.66
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	1.78	0.66
25:D3:133:LEU:HD11	25:D3:137:LYS:HZ3	1.61	0.66
41:L4:205:PRO:HG2	41:L4:225:VAL:HG13	1.76	0.66
36:5:1615:C:H2'	36:5:1616:U:C6	2.30	0.66
36:5:3053:G:O6	86:5:4087:OHX:N3	2.29	0.66
48:m1:108:GLU:HG2	48:m1:122:ILE:HG21	1.77	0.66
59:n3:66:LYS:HE3	59:n3:68:GLU:HB2	1.78	0.66
63:n7:62:VAL:O	63:n7:66:THR:OG1	2.13	0.66
1:2:1064:G:O6	86:2:2150:OHX:N5	2.28	0.66
36:1:2871:G:OP2	86:1:4071:OHX:N1	2.29	0.66
86:1:3813:OHX:N5	51:M5:204:LYS:O	2.28	0.66
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	1.78	0.66
51:M5:96:ARG:HH11	51:M5:96:ARG:HG2	1.60	0.66
63:N7:16:GLY:O	63:N7:18:TYR:N	2.29	0.66
1:6:1679:G:O6	86:6:2170:OHX:N4	2.29	0.66
35:sM:46:LYS:HA	36:5:1018:G:H4'	1.77	0.66
47:m0:100:ASN:OD1	86:m0:302:OHX:N5	2.29	0.66
47:m0:208:ASN:HB3	47:m0:211:ARG:HH11	1.61	0.66
54:m8:91:ALA:HB3	64:n8:77:LYS:HE3	1.78	0.66
62:n6:3:LYS:HD2	62:n6:8:VAL:HG23	1.78	0.66
74:o8:46:ARG:NH2	74:o8:50:SER:O	2.28	0.66
1:2:354:C:H5''	10:S8:16:ALA:HB2	1.78	0.66
1:2:1695:G:H21	1:2:1706:C:H41	1.44	0.66
8:S6:116:LYS:HD2	8:S6:125:THR:HG21	1.78	0.66
23:D1:81:ASN:O	23:D1:83:TRP:N	2.29	0.66
36:1:1409:G:O6	86:1:3960:OHX:N3	2.29	0.66
1:6:489:C:O2'	1:6:490:C:O4'	2.13	0.66
10:s8:76:THR:HB	10:s8:105:ASP:HB2	1.76	0.66
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.29	0.65
1:2:1183:A:N6	17:C5:122:THR:O	2.28	0.65
26:D4:83:LYS:HE2	26:D4:96:LEU:HB3	1.76	0.65
36:1:829:U:H3	36:1:895:A:N6	1.94	0.65
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.29	0.65
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.21	0.65
36:1:1719:G:OP1	55:M9:110:ARG:NH2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3029:A:OP2	86:1:3967:OHX:N5	2.29	0.65
42:L5:54:ARG:NH1	42:L5:148:ILE:O	2.28	0.65
16:c4:81:VAL:HG13	16:c4:115:ILE:HG23	1.78	0.65
38:8:52:A:H62	75:o9:27:ILE:HD13	1.62	0.65
1:2:83:G:OP2	86:2:2034:OHX:N5	2.29	0.65
1:2:1041:G:OP1	86:2:2123:OHX:N3	2.28	0.65
9:S7:96:ARG:NH2	9:S7:128:ASP:OD2	2.28	0.65
36:1:508:U:O4	86:1:3899:OHX:N6	2.29	0.65
36:1:1661:G:O6	86:1:3781:OHX:N6	2.28	0.65
36:1:2636:A:H5''	36:1:2637:A:H5'	1.78	0.65
36:1:2818:U:H6	36:1:2818:U:H5'	1.61	0.65
1:6:514:G:HO2'	1:6:515:A:H8	1.44	0.65
1:6:1680:G:O6	86:6:2170:OHX:N1	2.29	0.65
36:5:595:G:OP1	44:l7:33:ARG:NH2	2.30	0.65
36:5:3112:G:N7	86:5:3835:OHX:N6	2.43	0.65
40:l3:147:GLU:OE2	40:l3:150:ARG:NH1	2.30	0.65
11:S9:27:GLU:HB3	11:S9:39:LYS:HD2	1.78	0.65
16:C4:92:LYS:HZ2	28:D6:69:ASN:HB2	1.62	0.65
36:1:2871:G:OP2	86:1:4071:OHX:N4	2.29	0.65
36:1:2902:A:OP1	46:L9:170:LYS:NZ	2.28	0.65
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.44	0.65
56:N0:8:GLN:HB2	56:N0:64:ILE:HD11	1.78	0.65
59:N3:132:ASN:N	59:N3:132:ASN:OD1	2.28	0.65
16:c4:99:GLN:NE2	28:d6:44:ILE:O	2.28	0.65
86:5:4015:OHX:N1	40:l3:30:LYS:O	2.29	0.65
37:7:91:G:H2'	37:7:92:A:C8	2.32	0.65
42:l5:290:ILE:HG12	47:m0:206:LEU:HD21	1.79	0.65
53:m7:78:VAL:HG22	53:m7:79:THR:H	1.61	0.65
81:p0:26:PHE:HB2	81:p0:87:VAL:HB	1.77	0.65
5:S3:66:ILE:O	5:S3:70:THR:OG1	2.13	0.65
7:S5:51:VAL:O	7:S5:65:ARG:NH2	2.28	0.65
7:S5:166:ARG:HD3	30:D8:45:LYS:HG3	1.78	0.65
30:D8:52:ASP:N	30:D8:52:ASP:OD1	2.25	0.65
36:1:1806:A:OP2	86:1:3877:OHX:N4	2.29	0.65
36:1:2538:U:O2'	36:1:2541:U:O4	2.10	0.65
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.61	0.65
1:6:1139:A:OP2	86:6:2038:OHX:N4	2.30	0.65
36:5:63:A:OP1	51:m5:172:ARG:NH2	2.30	0.65
36:5:75:G:H5''	49:m3:58:VAL:HG13	1.79	0.65
36:5:1672:U:OP2	55:m9:60:LYS:NZ	2.25	0.65
36:5:2311:G:OP2	86:5:3894:OHX:N2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3208:G:O3'	56:n0:161:LYS:NZ	2.28	0.65
1:2:1051:G:N7	86:2:2142:OHX:N5	2.45	0.65
1:2:1542:G:H22	1:2:1568:C:H1'	1.62	0.65
2:S0:200:ASP:HB2	19:C7:85:VAL:HG22	1.79	0.65
4:S2:168:ARG:HD3	4:S2:170:ILE:HD11	1.78	0.65
5:S3:175:VAL:HG13	5:S3:182:LEU:HB2	1.76	0.65
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.28	0.65
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.30	0.65
36:5:1717:U:H2'	36:5:1718:G:C8	2.32	0.65
47:m0:10:ARG:HG2	47:m0:11:TYR:CD1	2.31	0.65
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.77	0.65
51:m5:159:ARG:HB2	51:m5:164:LEU:HB2	1.78	0.65
30:D8:36:THR:OG1	30:D8:37:SER:N	2.26	0.65
48:M1:94:ARG:O	48:M1:96:PHE:N	2.29	0.65
3:s1:28:GLU:OE2	3:s1:94:LYS:NZ	2.24	0.65
19:c7:33:ARG:NH2	34:sR:109:ASP:OD2	2.29	0.65
36:5:2579:G:O6	86:5:3946:OHX:N3	2.30	0.65
42:l5:22:ARG:HA	42:l5:25:GLU:HG3	1.76	0.65
71:o5:10:ARG:NH1	71:o5:60:GLU:OE1	2.29	0.65
1:2:744:U:N3	1:2:808:U:O2	2.30	0.65
1:2:1623:C:H2'	1:2:1624:C:C6	2.32	0.65
10:S8:79:ALA:HB3	10:S8:103:GLN:HB3	1.77	0.65
41:L4:328:ASN:OD1	44:L7:48:ASN:ND2	2.30	0.65
1:6:1203:A:OP2	86:6:2096:OHX:N4	2.30	0.65
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.62	0.65
28:d6:30:ILE:HD11	28:d6:34:LYS:HD2	1.78	0.65
36:5:828:A:OP2	86:5:4166:OHX:N6	2.30	0.65
47:m0:99:ILE:HG12	47:m0:123:HIS:HB2	1.79	0.65
80:m2:50:SER:O	80:m2:52:LYS:N	2.30	0.65
62:n6:57:LEU:HD22	62:n6:58:VAL:H	1.61	0.65
1:2:912:U:H4'	1:2:913:G:H3'	1.78	0.65
5:S3:69:LEU:HA	5:S3:72:LEU:HD12	1.79	0.65
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.79	0.65
41:L4:281:ILE:HD12	54:M8:29:LEU:HG	1.79	0.65
1:6:454:U:C4	6:s4:66:MET:HB3	2.31	0.65
6:s4:90:ILE:HD11	6:s4:101:LEU:HD11	1.79	0.65
36:5:3140:G:N7	40:l3:28:ARG:NH2	2.44	0.65
36:5:3328:G:OP1	40:l3:385:LYS:NZ	2.29	0.65
38:8:77:A:OP2	86:8:217:OHX:N1	2.30	0.65
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	1.79	0.65
47:m0:142:ASP:OD1	47:m0:178:ARG:NH2	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:n6:11:ASP:HB3	62:n6:14:LYS:HG3	1.78	0.65
78:q2:72:LEU:HD11	78:q2:83:LEU:HB2	1.78	0.65
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.30	0.65
34:SR:132:LYS:HB2	34:SR:134:TRP:HE1	1.61	0.65
34:SR:302:PHE:HA	34:SR:312:VAL:HG12	1.78	0.65
36:1:964:G:OP1	86:1:3860:OHX:N2	2.29	0.65
38:4:155:A:H5'	45:L8:185:ARG:CZ	2.27	0.65
62:N6:53:ASP:HB2	62:N6:110:HIS:HD2	1.62	0.65
73:O7:88:ALA:O	86:O7:104:OHX:N3	2.30	0.65
4:s2:225:LEU:HD12	24:d2:68:ARG:HA	1.79	0.65
36:5:3280:U:O2'	36:5:3281:U:H5''	1.96	0.65
46:l9:8:GLN:NE2	46:l9:69:ARG:HG2	2.11	0.65
59:n3:83:LYS:NZ	59:n3:84:SER:O	2.30	0.65
66:o0:37:GLY:O	66:o0:39:SER:N	2.28	0.65
73:o7:52:LYS:HA	73:o7:55:ARG:HD2	1.79	0.65
1:2:472:U:O2'	1:2:769:A:N3	2.28	0.65
8:S6:163:THR:HA	8:S6:168:THR:HA	1.77	0.65
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.62	0.65
36:1:1015:U:O2'	36:1:1017:C:OP2	2.15	0.65
36:1:2572:C:O2'	36:1:2573:G:O4'	2.15	0.65
36:1:3115:C:OP1	46:L9:62:ARG:NH2	2.29	0.65
52:M6:27:LEU:HD22	52:M6:101:ARG:HB2	1.78	0.65
76:Q0:99:CYS:SG	76:Q0:115:CYS:SG	2.95	0.65
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.78	0.65
1:6:679:U:O4	86:6:2141:OHX:N2	2.30	0.65
30:d8:58:GLU:O	30:d8:60:GLU:N	2.30	0.65
36:5:388:G:N2	53:m7:101:ASN:OD1	2.30	0.65
36:5:1493:G:O6	75:o9:2:ALA:N	2.30	0.65
36:5:2960:C:OP1	86:5:3888:OHX:N6	2.29	0.65
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.30	0.64
36:1:361:A:O3'	73:O7:45:ARG:NH2	2.30	0.64
36:1:3115:C:O2'	36:1:3117:C:N4	2.30	0.64
36:1:3199:G:H5''	50:M4:6:ILE:HG21	1.78	0.64
54:M8:86:THR:HG22	54:M8:105:ARG:HB2	1.78	0.64
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.28	0.64
1:6:196:G:N7	10:s8:141:ARG:NH2	2.46	0.64
1:6:590:C:H5''	32:e0:43:ARG:HH12	1.61	0.64
1:6:828:U:H2'	1:6:829:A:H5''	1.79	0.64
1:6:833:U:O4	86:6:2067:OHX:N1	2.29	0.64
27:d5:60:VAL:HG13	27:d5:101:TYR:HB2	1.80	0.64
36:5:1819:U:O4	86:5:3964:OHX:N5	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:24:ILE:HD11	46:l9:39:LYS:HD2	1.78	0.64
1:2:1335:U:H2'	1:2:1336:A:C8	2.32	0.64
13:C1:5:LEU:O	13:C1:7:VAL:N	2.27	0.64
15:C3:76:LYS:HA	15:C3:81:ALA:HB2	1.80	0.64
34:SR:133:VAL:O	34:SR:141:LEU:N	2.26	0.64
36:1:2307:G:O2'	36:1:2310:U:OP2	2.14	0.64
36:1:3024:A:H5''	46:L9:96:HIS:CD2	2.32	0.64
36:1:3215:A:O5'	50:M4:121:MET:HE1	1.98	0.64
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.43	0.64
61:N5:69:SER:OG	61:N5:72:ALA:N	2.30	0.64
64:N8:125:VAL:HG21	64:N8:138:ILE:HD13	1.79	0.64
1:6:169:A:H5''	8:s6:176:GLN:HG2	1.79	0.64
1:6:268:C:OP1	8:s6:176:GLN:NE2	2.27	0.64
1:6:1060:U:O2'	86:6:2156:OHX:N3	2.30	0.64
11:s9:106:GLU:O	11:s9:111:THR:OG1	2.14	0.64
36:5:1691:U:OP1	86:5:4164:OHX:N2	2.30	0.64
36:5:2546:C:H2'	36:5:2547:A:C8	2.33	0.64
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.78	0.64
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.30	0.64
46:L9:79:ILE:O	46:L9:81:GLY:N	2.30	0.64
2:s0:164:ASN:HA	2:s0:170:ILE:HG12	1.80	0.64
21:c9:15:ILE:HD11	21:c9:63:ARG:HD3	1.80	0.64
26:d4:20:ARG:HA	26:d4:76:TYR:HA	1.78	0.64
28:d6:3:LYS:HD3	28:d6:6:ALA:HA	1.79	0.64
36:5:1104:G:H2'	36:5:1105:A:H8	1.62	0.64
36:5:1506:A:H1'	36:5:1848:G:O6	1.98	0.64
36:5:2429:G:OP2	86:5:3959:OHX:N5	2.30	0.64
39:l2:211:HIS:O	39:l2:213:GLY:N	2.31	0.64
47:m0:161:GLY:O	47:m0:163:GLN:NE2	2.31	0.64
55:m9:109:TYR:HB3	55:m9:115:ILE:HG12	1.80	0.64
1:2:118:U:O4	86:2:2130:OHX:N5	2.30	0.64
1:2:820:U:H2'	1:2:821:U:H4'	1.79	0.64
36:1:2623:G:H2'	36:1:2624:G:H8	1.62	0.64
37:3:7:G:H5''	42:L5:22:ARG:HD3	1.79	0.64
49:M3:70:ARG:HD2	49:M3:71:ALA:O	1.98	0.64
1:6:1711:C:H2'	1:6:1712:A:H5''	1.79	0.64
24:d2:37:PHE:CZ	24:d2:103:ILE:HD11	2.32	0.64
29:d7:19:HIS:HE1	29:d7:21:LEU:HD12	1.62	0.64
36:5:1530:U:OP1	86:5:3906:OHX:N1	2.29	0.64
36:5:1765:U:OP2	55:m9:39:ASN:ND2	2.30	0.64
41:l4:229:ASN:OD1	41:l4:231:ALA:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:116:GLY:O	64:n8:137:LYS:NZ	2.31	0.64
1:2:780:A:H8	26:D4:8:ARG:HB3	1.63	0.64
36:1:2157:G:N7	39:L2:152:SER:OG	2.28	0.64
36:1:2783:U:OP2	86:1:4110:OHX:N5	2.31	0.64
36:1:2983:C:OP1	86:1:4097:OHX:N1	2.30	0.64
74:O8:32:ASN:O	74:O8:34:ALA:N	2.30	0.64
1:6:161:U:OP2	8:s6:87:ARG:NH2	2.31	0.64
6:s4:121:TYR:OH	6:s4:235:TYR:O	2.14	0.64
9:S7:73:VAL:O	9:S7:75:THR:N	2.29	0.64
36:1:542:G:O6	86:1:3951:OHX:N2	2.31	0.64
36:1:1624:G:O6	86:1:3937:OHX:N2	2.30	0.64
36:1:2878:G:O6	86:1:4072:OHX:N2	2.29	0.64
36:1:3119:U:OP2	86:1:3787:OHX:N4	2.30	0.64
54:M8:23:ASN:HB3	54:M8:26:LEU:HB2	1.78	0.64
56:N0:8:GLN:HG3	56:N0:26:ARG:HE	1.63	0.64
1:6:158:U:O2'	1:6:160:C:OP2	2.16	0.64
9:s7:117:THR:HG22	9:s7:120:ALA:H	1.63	0.64
36:5:1538:G:OP2	86:5:4170:OHX:N2	2.30	0.64
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.28	0.64
56:n0:75:PHE:CE1	56:n0:99:ARG:HG3	2.32	0.64
1:2:473:A:H5'	1:2:769:A:H1'	1.79	0.64
1:2:1680:G:O6	86:2:2078:OHX:N5	2.30	0.64
7:S5:163:SER:HB2	30:D8:48:VAL:HG13	1.79	0.64
36:1:2287:C:O2	86:1:3810:OHX:N1	2.30	0.64
36:1:2814:G:N7	86:1:4071:OHX:N2	2.45	0.64
36:1:3042:U:OP2	36:1:3092:C:N4	2.31	0.64
41:L4:181:VAL:O	41:L4:183:LYS:N	2.31	0.64
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	1.80	0.64
75:O9:27:ILE:HG23	75:O9:30:ARG:HE	1.62	0.64
12:c0:62:GLN:NE2	31:d9:25:SER:OG	2.30	0.64
1:2:1542:G:N2	1:2:1568:C:H1'	2.13	0.64
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.63	0.64
36:1:3103:A:OP2	86:1:4065:OHX:N5	2.31	0.64
69:O3:10:LYS:HB2	69:O3:33:GLU:HG3	1.80	0.64
1:6:1561:U:H4'	1:6:1599:C:H4'	1.80	0.64
4:s2:81:MET:HB2	4:s2:101:VAL:HB	1.80	0.64
21:c9:38:LYS:O	21:c9:39:THR:OG1	2.16	0.64
36:5:1580:A:N6	61:n5:33:ARG:HE	1.95	0.64
39:l2:227:ARG:HB2	39:l2:239:ALA:HB2	1.80	0.64
41:l4:114:ASN:HB2	41:l4:117:GLU:HB2	1.79	0.64
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:248:ASN:HD21	34:SR:298:GLY:HA3	1.62	0.64
43:L6:3:ALA:HB2	68:O2:77:ALA:HB2	1.80	0.64
56:N0:96:ASP:OD1	56:N0:97:VAL:N	2.31	0.64
1:6:759:U:OP1	86:s9:201:OHX:N2	2.30	0.64
45:l8:78:PHE:O	45:l8:79:GLN:HB3	1.97	0.64
9:S7:35:LYS:O	9:S7:37:GLU:N	2.31	0.64
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	1.81	0.64
15:C3:27:LYS:H	15:C3:27:LYS:HE2	1.62	0.64
15:C3:114:ARG:HG2	15:C3:114:ARG:HH11	1.63	0.64
36:1:239:G:O2'	36:1:240:U:OP1	2.15	0.64
67:O1:72:ARG:NH1	67:O1:105:GLN:O	2.19	0.64
36:5:1916:U:O3'	55:m9:85:ARG:NH2	2.30	0.64
39:l2:116:VAL:HG13	39:l2:126:LEU:HB2	1.79	0.64
45:l8:48:ARG:HH21	45:l8:49:TYR:HE2	1.45	0.64
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.30	0.63
36:1:2701:U:OP2	57:N1:22:HIS:ND1	2.30	0.63
51:M5:43:THR:OG1	51:M5:131:GLU:OE2	2.14	0.63
56:N0:23:LYS:O	57:N1:146:ASN:ND2	2.29	0.63
1:6:413:U:H2'	1:6:414:C:H6	1.63	0.63
36:5:90:C:H2'	36:5:91:G:H5'	1.79	0.63
36:5:1049:C:H2'	36:5:1050:U:C6	2.33	0.63
36:5:3308:C:O2	53:m7:69:ARG:HD3	1.98	0.63
40:l3:81:THR:HG23	40:l3:205:VAL:HG21	1.80	0.63
42:l5:110:LEU:HA	42:l5:113:LEU:HB2	1.79	0.63
50:m4:55:ARG:HD3	56:n0:70:THR:HB	1.81	0.63
14:C2:129:GLU:HA	14:C2:133:LEU:HD22	1.81	0.63
20:C8:131:LEU:HA	20:C8:145:ARG:HH12	1.63	0.63
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.81	0.63
36:1:180:C:H2'	36:1:181:U:H6	1.64	0.63
36:1:2401:A:H5'	41:L4:70:ALA:HB2	1.78	0.63
36:1:2960:C:H2'	36:1:2961:G:C8	2.33	0.63
38:4:122:U:H2'	38:4:123:G:H8	1.63	0.63
1:6:885:G:H21	16:c4:123:SER:HB2	1.62	0.63
2:s0:163:ASN:O	2:s0:165:ARG:N	2.31	0.63
36:5:1080:A:OP1	42:l5:140:ARG:HD3	1.97	0.63
36:5:1196:C:O2	86:5:3915:OHX:N1	2.31	0.63
51:m5:178:HIS:CD2	51:m5:179:LYS:HG2	2.33	0.63
1:2:1034:C:HO2'	24:D2:2:THR:N	1.97	0.63
6:S4:17:HIS:HB2	6:S4:108:ARG:HA	1.81	0.63
36:1:155:G:H5''	36:1:156:G:C8	2.32	0.63
36:1:847:A:H2'	36:1:848:A:C8	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1194:G:OP1	86:1:3859:OHX:N3	2.32	0.63
36:1:2343:C:H2'	36:1:2344:U:H6	1.64	0.63
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	2.32	0.63
48:M1:166:LYS:HD3	48:M1:167:TYR:CE1	2.34	0.63
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.13	0.63
1:6:235:G:H2'	1:6:236:A:C8	2.32	0.63
1:6:1140:G:OP2	86:6:2038:OHX:N1	2.31	0.63
1:6:1792:G:H5''	28:d6:3:LYS:HA	1.80	0.63
34:sR:286:GLU:OE2	86:sR:401:OHX:N6	2.32	0.63
47:m0:43:VAL:HG21	47:m0:197:VAL:HB	1.79	0.63
73:o7:28:HIS:CD2	73:o7:31:LYS:HE2	2.34	0.63
1:2:1720:G:O6	86:2:2050:OHX:N5	2.32	0.63
27:D5:93:SER:OG	27:D5:94:LYS:N	2.24	0.63
36:1:1231:A:O2'	36:1:1261:G:O2'	2.17	0.63
36:1:1632:A:OP1	63:N7:69:LYS:NZ	2.31	0.63
36:1:2579:G:O6	86:1:3823:OHX:N2	2.31	0.63
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.63	0.63
59:N3:135:VAL:HG11	60:N4:26:SER:HB3	1.80	0.63
4:s2:163:GLY:O	4:s2:165:VAL:N	2.30	0.63
6:s4:130:GLN:HB3	6:s4:138:TYR:CZ	2.34	0.63
7:s5:25:LEU:HB2	18:c6:27:GLY:HA3	1.81	0.63
36:5:1073:U:H1'	65:n9:50:THR:HB	1.79	0.63
36:5:1148:G:N7	86:5:4129:OHX:N5	2.45	0.63
68:o2:9:ILE:HG23	68:o2:63:THR:HB	1.80	0.63
1:2:1349:G:H1'	1:2:1379:C:H42	1.63	0.63
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.79	0.63
30:D8:15:VAL:HA	30:D8:28:VAL:HG22	1.80	0.63
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.31	0.63
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.32	0.63
36:1:1553:U:H4'	36:1:1554:U:H5'	1.79	0.63
40:L3:56:ILE:HD13	40:L3:76:VAL:HG21	1.81	0.63
44:L7:25:GLN:HA	44:L7:28:ALA:HB3	1.80	0.63
1:6:696:C:H4'	1:6:697:C:H6	1.64	0.63
15:c3:151:ASN:O	86:c3:201:OHX:N3	2.31	0.63
33:e1:121:CYS:HB3	33:e1:130:VAL:HG11	1.79	0.63
86:5:4144:OHX:N6	51:m5:15:GLN:OE1	2.31	0.63
39:l2:52:SER:HB3	39:l2:191:LEU:HD12	1.79	0.63
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	1.81	0.63
54:m8:170:ARG:O	54:m8:171:LYS:HB2	1.99	0.63
66:o0:45:ALA:HB2	66:o0:77:LEU:HD22	1.80	0.63
1:2:580:A:H5''	5:S3:143:ARG:HH12	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.31	0.63
36:1:2853:A:O3'	47:M0:64:ALA:HB2	1.99	0.63
41:L4:22:LEU:HD22	41:L4:23:PRO:HD2	1.80	0.63
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.79	0.63
62:N6:36:SER:OG	62:N6:106:ILE:O	2.13	0.63
1:6:1006:C:O2	86:6:2111:OHX:N1	2.31	0.63
1:6:1420:C:O2'	5:s3:160:SER:O	2.10	0.63
34:sR:42:LEU:HD21	34:sR:82:SER:HB3	1.79	0.63
40:l3:227:GLU:HB3	40:l3:232:ARG:HB2	1.80	0.63
1:2:58:U:OP2	86:2:2145:OHX:N3	2.32	0.63
1:2:623:A:OP1	86:2:2136:OHX:N1	2.32	0.63
1:2:1469:A:H4'	1:2:1541:G:H4'	1.80	0.63
4:S2:67:GLN:HA	4:S2:70:ASP:HB3	1.79	0.63
34:SR:237:GLN:HG2	34:SR:261:LYS:HE2	1.80	0.63
36:1:1580:A:H5'	36:1:2522:G:C5	2.33	0.63
36:1:3289:G:O6	86:1:4030:OHX:N4	2.32	0.63
47:M0:54:SER:HB3	47:M0:135:ILE:HD11	1.80	0.63
63:N7:10:VAL:HB	63:N7:83:THR:HG21	1.81	0.63
1:6:1595:U:H3	1:6:1600:A:H2	1.45	0.63
17:c5:15:HIS:H	17:c5:22:LEU:HD22	1.64	0.63
36:5:1541:G:OP2	86:5:4002:OHX:N1	2.31	0.63
36:5:1861:G:O6	86:5:3967:OHX:N2	2.32	0.63
36:5:3227:A:H2'	36:5:3228:C:H5'	1.81	0.63
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.81	0.63
21:C9:65:ILE:HG12	21:C9:71:VAL:HG23	1.80	0.63
36:1:715:A:H5''	64:N8:114:GLY:O	1.99	0.63
36:1:1878:G:OP1	86:1:3824:OHX:N4	2.31	0.63
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.31	0.63
41:L4:145:ILE:O	86:L4:401:OHX:N5	2.32	0.63
46:L9:49:ASN:O	46:L9:51:GLN:N	2.32	0.63
48:M1:109:HIS:HD2	48:M1:123:PHE:H	1.47	0.63
78:Q2:46:LYS:O	86:Q2:503:OHX:N6	2.32	0.63
1:6:138:A:H62	1:6:266:A:H61	1.47	0.63
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.81	0.63
4:s2:170:ILE:HB	4:s2:197:TYR:HB2	1.80	0.63
5:s3:168:ILE:HG22	5:s3:189:MET:HB2	1.81	0.63
33:e1:78:LYS:O	33:e1:80:ARG:N	2.32	0.63
41:l4:42:VAL:C	41:l4:44:LYS:H	2.06	0.63
56:n0:42:TRP:HE1	56:n0:58:ILE:HD11	1.64	0.63
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.63	0.63
1:2:1492:A:HO2'	1:2:1493:A:H8	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1525:A:H2'	1:2:1526:A:C8	2.34	0.63
9:S7:32:PRO:HD2	9:S7:34:LEU:HB2	1.80	0.63
13:C1:6:THR:O	13:C1:8:GLN:N	2.25	0.63
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	1.81	0.63
47:M0:72:ALA:HB2	47:M0:155:ALA:HB2	1.81	0.63
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.81	0.63
57:N1:8:ARG:O	57:N1:11:THR:OG1	2.16	0.63
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.34	0.63
9:s7:126:LEU:HB2	9:s7:173:TYR:HE2	1.64	0.63
19:c7:23:LYS:NZ	34:sR:149:ASP:OD2	2.32	0.63
36:5:2255:A:H5'	36:5:2261:G:H22	1.64	0.63
36:5:2514:U:H6	36:5:2514:U:OP1	1.82	0.63
36:5:3242:G:H5''	36:5:3245:A:C8	2.33	0.63
52:m6:22:VAL:HG11	52:m6:120:VAL:HG11	1.81	0.63
1:2:973:A:H2'	1:2:974:A:H8	1.62	0.62
1:2:1547:A:OP1	20:C8:115:ARG:NH2	2.28	0.62
7:S5:37:GLN:HB3	18:C6:53:LEU:HD22	1.81	0.62
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.64	0.62
36:1:1611:G:H2'	36:1:1612:A:H8	1.63	0.62
36:1:1895:A:O2'	36:1:3053:G:H4'	1.99	0.62
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.32	0.62
39:L2:46:LYS:HD2	39:L2:62:VAL:HG11	1.79	0.62
45:L8:116:VAL:HG11	45:L8:123:GLN:HA	1.81	0.62
53:M7:23:ARG:HE	53:M7:125:GLN:HG3	1.64	0.62
53:M7:138:LYS:HG3	53:M7:140:GLU:HG3	1.80	0.62
1:6:453:U:O4	86:6:2027:OHX:N4	2.32	0.62
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.21	0.62
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.32	0.62
36:5:190:U:H2'	62:n6:60:ARG:NH2	2.13	0.62
36:5:824:C:H5''	39:l2:21:ARG:HD3	1.80	0.62
36:5:3065:G:O6	86:5:4014:OHX:N3	2.32	0.62
36:5:3366:G:H2'	36:5:3367:C:C6	2.34	0.62
47:m0:77:THR:O	47:m0:81:GLY:N	2.31	0.62
48:m1:16:LYS:HG2	48:m1:130:VAL:HG13	1.81	0.62
65:n9:20:GLY:O	65:n9:21:ILE:HB	1.98	0.62
1:2:515:A:OP2	86:2:2038:OHX:N3	2.32	0.62
36:1:2635:A:H2	57:N1:10:ARG:HH12	1.45	0.62
36:1:3054:U:OP2	86:1:3782:OHX:N3	2.32	0.62
62:N6:111:LEU:HD23	62:N6:116:LYS:HE3	1.80	0.62
66:O0:99:ASP:OD2	66:O0:99:ASP:N	2.32	0.62
1:6:804:A:N3	24:d2:105:THR:HG22	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:861:U:OP1	15:c3:64:ARG:NH2	2.32	0.62
7:s5:99:MET:HB2	7:s5:180:ARG:NH2	2.14	0.62
20:c8:83:ALA:O	20:c8:89:GLN:NE2	2.31	0.62
34:sR:135:THR:HG22	34:sR:141:LEU:HD11	1.80	0.62
36:5:508:U:O4	86:5:3936:OHX:N1	2.32	0.62
47:m0:84:ALA:O	47:m0:140:THR:HB	1.99	0.62
74:o8:11:PHE:HD1	74:o8:12:LEU:HD22	1.63	0.62
1:2:320:U:H3'	1:2:321:C:C5'	2.26	0.62
2:S0:41:ARG:HE	2:S0:45:VAL:HB	1.62	0.62
5:S3:27:ARG:HD2	12:C0:60:SER:HB2	1.81	0.62
27:D5:61:SER:H	27:D5:64:VAL:HB	1.65	0.62
36:1:992:A:H5''	57:N1:43:LYS:HD3	1.80	0.62
43:L6:131:LYS:HG2	43:L6:133:GLU:HB3	1.79	0.62
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	1.81	0.62
58:N2:37:LEU:HD23	58:N2:41:ILE:HD11	1.81	0.62
61:N5:105:VAL:HG12	61:N5:130:TYR:CD2	2.35	0.62
66:O0:24:THR:HG22	66:O0:91:SER:HB3	1.81	0.62
36:5:415:G:OP2	86:5:4141:OHX:N4	2.32	0.62
36:5:2201:G:H21	39:12:224:THR:HG21	1.64	0.62
36:5:2254:U:H2'	36:5:2261:G:N2	2.13	0.62
36:5:2904:U:OP1	86:5:3956:OHX:N3	2.32	0.62
41:l4:38:VAL:HG13	41:l4:113:VAL:HG11	1.81	0.62
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	1.81	0.62
1:2:1056:U:O4	86:2:2150:OHX:N6	2.32	0.62
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.81	0.62
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.82	0.62
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.80	0.62
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.80	0.62
33:E1:135:HIS:HB2	33:E1:138:ARG:HB3	1.82	0.62
34:SR:45:TRP:HA	34:SR:57:PRO:HA	1.81	0.62
35:SM:140:ASP:N	35:SM:140:ASP:OD1	2.32	0.62
36:1:2534:G:H2'	36:1:2535:A:H8	1.65	0.62
55:M9:106:LEU:HD21	55:M9:123:LEU:HB3	1.82	0.62
2:s0:11:PRO:HA	2:s0:14:ALA:HB3	1.79	0.62
5:s3:176:LEU:HA	5:s3:181:VAL:HG12	1.81	0.62
9:s7:164:TYR:CE1	9:s7:165:LYS:HG3	2.35	0.62
17:c5:18:ARG:NH1	20:c8:90:ASN:OD1	2.32	0.62
23:d1:3:ASN:HD21	23:d1:7:GLN:HB2	1.64	0.62
36:5:2793:G:H5''	78:q2:66:LYS:HG2	1.81	0.62
36:5:2812:C:H2'	36:5:2813:A:C8	2.30	0.62
41:l4:299:ILE:HG23	54:m8:39:ARG:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:17:CYS:CB	78:q2:77:CYS:SG	2.78	0.62
1:2:1157:A:OP1	86:2:2101:OHX:N2	2.33	0.62
36:1:2534:G:O6	86:1:3893:OHX:N6	2.33	0.62
1:6:852:C:OP2	55:m9:172:ARG:NH1	2.33	0.62
1:6:1238:A:OP2	86:6:2063:OHX:N1	2.32	0.62
4:s2:241:ASP:HA	4:s2:244:SER:HB3	1.81	0.62
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.31	0.62
36:5:1119:C:OP2	86:5:3901:OHX:N2	2.32	0.62
36:5:1635:G:N2	36:5:1638:A:OP2	2.25	0.62
58:n2:59:ASP:OD1	58:n2:60:GLY:N	2.32	0.62
65:n9:14:ARG:HH12	65:n9:18:ARG:HH11	1.47	0.62
75:o9:9:ILE:HG22	75:o9:13:MET:HE2	1.82	0.62
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	1.81	0.62
36:1:1038:C:H4'	42:L5:5:LYS:NZ	2.14	0.62
40:L3:53:MET:HE2	40:L3:77:THR:CG2	2.28	0.62
41:L4:24:ALA:HB2	41:L4:264:SER:HB2	1.81	0.62
44:L7:138:TYR:HE2	44:L7:233:GLU:HG2	1.64	0.62
48:M1:47:GLN:HG3	48:M1:67:VAL:HG12	1.82	0.62
1:6:761:G:OP1	11:s9:54:ARG:NH2	2.33	0.62
1:6:959:U:OP2	29:d7:20:LYS:NZ	2.31	0.62
36:5:825:U:OP1	39:l2:21:ARG:NH1	2.32	0.62
36:5:839:C:O2'	36:5:1724:U:OP1	2.11	0.62
36:5:1724:U:H1'	36:5:1725:C:C6	2.34	0.62
54:m8:64:VAL:HG12	54:m8:93:ILE:HD11	1.80	0.62
63:n7:36:HIS:CD2	63:n7:74:VAL:HG11	2.35	0.62
79:q3:84:ARG:HG3	79:q3:87:ARG:NH2	2.15	0.62
15:C3:101:HIS:HA	15:C3:104:ARG:HE	1.65	0.62
36:1:980:A:H2'	36:1:981:U:N1	2.14	0.62
36:1:1651:U:H2'	36:1:1652:G:H8	1.65	0.62
36:1:1798:A:H2'	36:1:1799:A:C8	2.34	0.62
38:4:70:G:O6	86:O7:104:OHX:N1	2.32	0.62
38:4:140:G:O3'	51:M5:109:ARG:NH1	2.31	0.62
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.82	0.62
1:6:1161:C:H1'	1:6:1619:C:H42	1.63	0.62
4:s2:227:PRO:HA	4:s2:230:TRP:CD1	2.35	0.62
36:5:900:G:H1'	36:5:1589:A:H61	1.62	0.62
36:5:3089:C:H2'	36:5:3090:U:O4'	2.00	0.62
48:m1:166:LYS:C	48:m1:168:ASP:H	2.07	0.62
59:n3:39:VAL:O	59:n3:42:SER:OG	2.17	0.62
60:n4:126:GLU:OE2	60:n4:129:LYS:NZ	2.32	0.62
1:2:520:A:H2'	1:2:521:A:C8	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:569:C:H41	25:D3:69:ARG:HH12	1.47	0.62
36:1:3064:U:O4	86:1:4033:OHX:N6	2.33	0.62
36:1:3197:G:H2'	36:1:3198:U:H5''	1.82	0.62
36:1:3316:A:OP1	36:1:3318:G:N2	2.31	0.62
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.33	0.62
41:L4:10:SER:OG	41:L4:13:GLY:O	2.15	0.62
75:O9:37:TYR:H	75:O9:37:TYR:HD2	1.47	0.62
18:c6:40:GLU:OE2	18:c6:45:ARG:NH2	2.32	0.62
22:d0:58:LEU:HD12	22:d0:88:LYS:HB3	1.82	0.62
36:5:901:G:H2'	36:5:902:G:H8	1.64	0.62
40:l3:81:THR:HG22	40:l3:321:PHE:HA	1.81	0.62
52:m6:73:PHE:CD2	52:m6:78:ARG:HG2	2.35	0.62
56:n0:155:ARG:HD3	56:n0:172:TYR:CG	2.35	0.62
1:2:1592:A:H2'	1:2:1593:A:H8	1.64	0.62
1:2:1738:U:H2'	1:2:1739:C:C6	2.35	0.62
10:S8:122:GLY:O	86:S8:301:OHX:N6	2.32	0.62
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.31	0.62
19:C7:50:ILE:O	19:C7:54:THR:OG1	2.16	0.62
33:E1:108:VAL:HB	33:E1:114:VAL:HG22	1.81	0.62
36:1:1926:C:H5''	79:Q3:7:LYS:HD2	1.82	0.62
86:1:3889:OHX:N5	37:3:86:U:O2	2.33	0.62
46:L9:167:VAL:HB	46:L9:172:ILE:HG22	1.81	0.62
54:M8:36:LEU:O	54:M8:40:THR:OG1	2.15	0.62
56:N0:133:ALA:HA	56:N0:141:LYS:NZ	2.14	0.62
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.35	0.62
1:6:246:G:H21	13:c1:39:GLY:HA3	1.64	0.62
3:s1:113:MET:HE2	3:s1:142:PHE:HE2	1.64	0.62
18:c6:7:VAL:HG21	18:c6:92:TYR:HA	1.81	0.62
64:n8:47:LYS:O	64:n8:49:HIS:N	2.28	0.62
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.26	0.62
36:1:533:A:O2'	36:1:535:G:OP2	2.18	0.62
36:1:1110:U:H2'	36:1:1111:U:C6	2.35	0.62
36:1:3174:A:H2'	36:1:3175:U:H5'	1.82	0.62
45:L8:81:THR:OG1	45:L8:82:LEU:N	2.33	0.62
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.82	0.62
78:Q2:35:LEU:HD23	78:Q2:35:LEU:H	1.65	0.62
1:6:1767:G:OP1	1:6:1770:U:H4'	2.00	0.62
5:s3:69:LEU:HA	5:s3:72:LEU:HD12	1.82	0.62
12:c0:32:HIS:CD2	12:c0:33:GLU:H	2.17	0.62
16:c4:131:GLY:O	16:c4:133:ARG:N	2.33	0.62
36:5:1473:G:OP2	55:m9:8:LYS:NZ	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.80	0.62
9:S7:83:LYS:HE3	9:S7:84:LYS:HE2	1.82	0.61
14:C2:38:HIS:O	14:C2:125:ASN:ND2	2.33	0.61
35:SM:41:SER:O	35:SM:43:ASP:N	2.32	0.61
36:1:439:C:H3'	36:1:440:A:C8	2.35	0.61
36:1:643:U:O2'	36:1:1153:A:N1	2.32	0.61
36:1:2094:C:H2'	36:1:2095:G:H8	1.65	0.61
36:1:2225:U:H2'	36:1:2226:U:C6	2.35	0.61
36:1:2677:G:OP2	86:1:3943:OHX:N4	2.33	0.61
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.65	0.61
1:6:544:A:O3'	32:e0:31:LYS:NZ	2.31	0.61
1:6:1315:U:OP1	1:6:1328:G:N2	2.32	0.61
1:6:1459:C:OP2	20:c8:138:THR:OG1	2.15	0.61
1:6:1485:C:OP1	86:6:2083:OHX:N5	2.33	0.61
17:c5:137:ARG:O	86:c5:202:OHX:N1	2.32	0.61
18:c6:63:ILE:HD12	18:c6:65:ILE:HD11	1.81	0.61
29:d7:23:THR:HG21	29:d7:29:ARG:HH22	1.65	0.61
36:5:1307:G:H1'	36:5:1308:A:C8	2.35	0.61
43:l6:131:LYS:HD3	43:l6:132:ALA:H	1.65	0.61
1:2:1102:G:OP2	25:D3:7:ARG:NH1	2.33	0.61
1:2:1657:U:N3	86:2:2058:OHX:N2	2.48	0.61
36:1:978:G:O2'	36:1:979:U:O2	2.17	0.61
36:1:1307:G:H1'	36:1:1308:A:C8	2.35	0.61
36:1:2700:G:H5''	57:N1:17:ARG:HB2	1.80	0.61
36:1:3018:C:OP2	86:1:3884:OHX:N2	2.33	0.61
36:1:3259:U:H5''	36:1:3261:C:H5	1.64	0.61
51:M5:14:LYS:HE2	51:M5:120:TRP:HZ3	1.64	0.61
1:6:584:C:H1'	32:e0:18:THR:HG21	1.81	0.61
1:6:1521:G:O2'	1:6:1523:G:OP2	2.08	0.61
23:d1:74:GLN:HG2	23:d1:79:LEU:HB2	1.81	0.61
36:5:582:G:O6	86:5:3936:OHX:N5	2.33	0.61
36:5:1158:A:OP2	44:l7:90:LYS:NZ	2.32	0.61
36:5:3026:G:N7	86:5:3856:OHX:N3	2.48	0.61
38:8:82:U:O5'	86:8:229:OHX:N2	2.33	0.61
52:m6:182:ASN:O	52:m6:186:ALA:N	2.33	0.61
1:2:636:A:H5''	24:D2:31:SER:HB3	1.81	0.61
1:2:1738:U:O4	86:2:2008:OHX:N4	2.33	0.61
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.82	0.61
18:C6:32:ASN:N	18:C6:67:VAL:O	2.29	0.61
36:1:1522:U:OP2	61:N5:121:LYS:NZ	2.32	0.61
46:L9:161:LEU:HD22	46:L9:179:ILE:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:159:U:H5'	26:d4:117:LYS:HG2	1.81	0.61
1:6:768:C:C2	11:s9:143:ILE:HD12	2.35	0.61
1:6:1062:A:OP1	86:6:2181:OHX:N5	2.33	0.61
11:s9:133:HIS:HD2	11:s9:162:SER:HB2	1.63	0.61
36:5:1222:G:O6	86:5:4037:OHX:N1	2.33	0.61
36:5:1878:G:H2'	36:5:1879:A:O4'	2.00	0.61
36:5:2162:U:OP1	39:l2:234:LYS:NZ	2.34	0.61
40:l3:17:LEU:HD12	40:l3:18:PRO:HA	1.82	0.61
56:n0:16:THR:HG1	56:n0:19:VAL:H	1.49	0.61
1:2:730:G:O6	86:2:2133:OHX:N4	2.33	0.61
1:2:1065:A:OP1	86:S1:301:OHX:N3	2.32	0.61
13:C1:99:ARG:HB3	25:D3:9:LEU:HD22	1.83	0.61
36:1:422:A:C2	36:1:2363:A:H4'	2.35	0.61
36:1:1819:U:O4	86:1:3937:OHX:N4	2.34	0.61
48:M1:50:ALA:HB2	48:M1:65:ILE:HD11	1.83	0.61
49:M3:9:ILE:HD11	64:N8:45:MET:HE1	1.81	0.61
1:6:413:U:H2'	1:6:414:C:C6	2.36	0.61
1:6:621:A:N3	1:6:1107:G:H1'	2.15	0.61
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.33	0.61
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.82	0.61
16:C4:50:ALA:O	16:C4:52:ARG:N	2.31	0.61
16:C4:86:THR:HG21	16:C4:90:ARG:HD2	1.82	0.61
36:1:86:G:O2'	36:1:98:G:O6	2.18	0.61
44:L7:157:ASN:O	44:L7:159:GLN:HG2	2.00	0.61
1:6:209:U:H2'	1:6:210:A:C8	2.35	0.61
1:6:742:U:OP2	86:6:2157:OHX:N5	2.34	0.61
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.83	0.61
26:d4:120:GLY:O	26:d4:122:GLY:N	2.32	0.61
36:5:1447:G:H3'	53:m7:67:ILE:HD11	1.82	0.61
36:5:2586:G:C8	45:l8:241:LYS:HD3	2.35	0.61
42:l5:155:THR:HA	42:l5:179:ARG:HA	1.81	0.61
64:n8:60:TYR:CD2	64:n8:63:LYS:HD2	2.35	0.61
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	1.83	0.61
16:C4:103:ARG:HD2	16:C4:107:ARG:HH22	1.65	0.61
36:1:722:G:O6	86:1:3911:OHX:N6	2.34	0.61
36:1:1343:A:H2'	36:1:1344:G:C8	2.36	0.61
36:1:2433:U:H1'	51:M5:125:SER:HB2	1.83	0.61
41:L4:264:SER:O	41:L4:266:THR:N	2.33	0.61
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.82	0.61
1:6:235:G:H2'	1:6:236:A:H8	1.66	0.61
3:s1:85:LYS:HB3	3:s1:101:HIS:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:339:C:OP1	36:5:1380:G:O2'	2.18	0.61
36:5:507:U:H2'	36:5:508:U:C6	2.34	0.61
36:5:1656:A:O2'	86:5:4093:OHX:N6	2.34	0.61
36:5:3294:A:H5''	40:l3:128:LYS:HG3	1.82	0.61
48:m1:100:GLY:HA3	48:m1:154:THR:HB	1.83	0.61
1:2:720:G:H1'	1:2:721:U:H5''	1.82	0.61
1:2:1413:U:O2	86:2:2039:OHX:N4	2.33	0.61
36:1:414:U:H2'	36:1:415:G:H8	1.66	0.61
36:1:2623:G:H2'	36:1:2624:G:C8	2.36	0.61
1:6:340:U:H2'	1:6:341:A:C8	2.36	0.61
8:s6:142:ARG:NH2	8:s6:149:LYS:O	2.33	0.61
25:d3:28:ASN:N	25:d3:28:ASN:OD1	2.30	0.61
36:5:999:G:C6	36:5:1000:C:N4	2.68	0.61
1:2:1735:U:O4	86:2:2108:OHX:N4	2.34	0.61
36:1:1635:G:N2	36:1:1638:A:OP2	2.29	0.61
36:1:3151:U:OP1	40:L3:128:LYS:NZ	2.34	0.61
38:4:55:U:O2	86:4:223:OHX:N6	2.34	0.61
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.82	0.61
64:N8:76:ASP:HB2	64:N8:115:LYS:HB2	1.82	0.61
1:6:845:G:H2'	1:6:846:G:H8	1.66	0.61
1:6:1460:A:OP2	20:c8:145:ARG:NH2	2.34	0.61
1:6:1600:A:H4'	1:6:1601:G:OP1	2.00	0.61
3:s1:35:PRO:HB3	3:s1:231:LEU:HD21	1.81	0.61
5:s3:22:ASN:OD1	5:s3:34:TYR:OH	2.16	0.61
21:c9:25:GLN:O	21:c9:27:LYS:N	2.31	0.61
33:e1:109:ASP:O	33:e1:111:GLU:N	2.34	0.61
36:5:2299:A:OP2	86:5:3876:OHX:N1	2.34	0.61
36:5:2549:G:C8	36:5:2549:G:H5'	2.35	0.61
36:5:2897:A:H2'	36:5:2899:C:H5''	1.83	0.61
41:l4:354:VAL:HG11	57:n1:143:THR:HG21	1.81	0.61
42:l5:106:ALA:HA	42:l5:171:LEU:HD11	1.83	0.61
47:m0:4:ARG:NH2	47:m0:99:ILE:HG22	2.16	0.61
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.82	0.61
1:2:632:U:OP1	13:C1:102:LYS:HG3	2.01	0.61
3:S1:137:ILE:HG13	3:S1:172:LEU:HD13	1.83	0.61
4:S2:44:LEU:HG	4:S2:247:ALA:HB2	1.83	0.61
10:S8:84:HIS:NE2	10:S8:97:THR:OG1	2.28	0.61
36:1:568:G:N7	86:1:3840:OHX:N4	2.49	0.61
36:1:2248:C:OP2	86:1:3777:OHX:N6	2.33	0.61
36:1:2667:A:O2'	36:1:2691:A:OP1	2.18	0.61
37:3:92:A:C5	37:3:93:C:H1'	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:132:ASN:HA	48:M1:154:THR:HG21	1.82	0.61
57:N1:108:ARG:HA	57:N1:111:ALA:HB3	1.83	0.61
1:6:1394:G:OP1	34:sR:282:SER:OG	2.16	0.61
19:c7:26:LEU:HD21	19:c7:62:GLN:HG3	1.82	0.61
20:c8:116:LEU:HA	20:c8:119:ILE:HG22	1.82	0.61
36:5:437:G:H1	36:5:622:A:N6	1.95	0.61
36:5:942:U:N3	64:n8:16:SER:HA	2.15	0.61
41:l4:304:GLN:O	41:l4:306:THR:N	2.32	0.61
43:l6:43:LEU:HD11	43:l6:85:ILE:HG13	1.82	0.61
1:2:209:U:H2'	1:2:210:A:C8	2.36	0.61
20:C8:140:THR:O	20:C8:143:ARG:NH1	2.34	0.61
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.34	0.61
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.80	0.61
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.36	0.61
44:L7:173:LEU:HB3	44:L7:178:ILE:HB	1.82	0.61
51:M5:106:VAL:HG11	51:M5:132:VAL:HG21	1.82	0.61
59:N3:93:LEU:HB2	60:N4:20:LEU:HD22	1.82	0.61
31:d9:6:VAL:O	31:d9:8:PHE:N	2.31	0.61
36:5:1304:A:OP1	86:5:4047:OHX:N3	2.34	0.61
36:5:1748:G:OP1	74:o8:44:LYS:NZ	2.24	0.61
36:5:3377:G:O6	86:5:3998:OHX:N2	2.34	0.61
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.25	0.61
41:l4:157:GLU:HG3	41:l4:251:THR:HG21	1.82	0.61
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.36	0.61
47:m0:177:ASP:OD2	47:m0:177:ASP:N	2.30	0.61
49:m3:161:ASP:O	49:m3:163:GLY:N	2.32	0.61
1:2:804:A:N3	24:D2:105:THR:HG22	2.15	0.60
1:2:1239:U:OP1	86:2:2116:OHX:N5	2.33	0.60
5:S3:79:TYR:CE2	5:S3:84:ILE:HG13	2.36	0.60
6:S4:68:ARG:HH12	6:S4:76:VAL:HG21	1.65	0.60
38:4:43:A:OP1	86:4:228:OHX:N5	2.34	0.60
39:L2:204:MET:HG3	39:L2:208:ASP:HB2	1.82	0.60
47:M0:59:GLN:HG2	47:M0:128:ARG:HG3	1.83	0.60
59:N3:28:ASN:HD21	59:N3:112:SER:HB2	1.65	0.60
1:6:1316:G:OP1	19:c7:7:LYS:N	2.31	0.60
1:6:1370:U:O4	86:6:2110:OHX:N6	2.34	0.60
1:6:1636:C:H4'	1:6:1637:C:H5'	1.83	0.60
36:5:618:C:H2'	36:5:619:A:C8	2.36	0.60
36:5:2310:U:OP1	86:5:4118:OHX:N2	2.34	0.60
36:5:2555:G:N2	63:n7:135:ARG:O	2.33	0.60
36:5:2786:G:O6	86:5:4061:OHX:N2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:n4:9:SER:HB2	60:n4:51:TRP:HZ3	1.65	0.60
1:2:1018:U:H2'	1:2:1019:A:C8	2.35	0.60
1:2:1153:G:H1	1:2:1625:C:H42	1.49	0.60
36:1:3143:C:O2'	86:1:3796:OHX:N2	2.34	0.60
40:L3:81:THR:HB	40:L3:205:VAL:HG21	1.83	0.60
40:L3:114:VAL:HG22	40:L3:163:HIS:CE1	2.37	0.60
52:M6:65:ASN:O	52:M6:67:THR:N	2.34	0.60
1:6:762:A:OP1	11:s9:79:ARG:NH2	2.34	0.60
1:6:891:A:H2'	1:6:892:A:C8	2.36	0.60
1:6:1552:U:OP2	17:c5:43:ARG:NH2	2.34	0.60
1:6:1713:G:O6	1:6:1714:A:N6	2.34	0.60
20:c8:17:LEU:HD21	20:c8:66:LEU:HD13	1.83	0.60
22:d0:96:PRO:HG2	22:d0:99:ILE:HD11	1.84	0.60
29:d7:36:LYS:HG2	29:d7:43:ILE:HA	1.83	0.60
36:5:3057:U:H5'	36:5:3086:A:H61	1.66	0.60
40:l3:108:GLU:HG2	40:l3:109:HIS:CD2	2.36	0.60
59:n3:120:LYS:HB2	59:n3:137:VAL:CG2	2.32	0.60
61:n5:38:LEU:O	61:n5:39:LYS:HB2	2.01	0.60
63:n7:33:SER:OG	63:n7:35:SER:O	2.20	0.60
1:2:694:U:H3	9:S7:98:ILE:HD12	1.66	0.60
2:S0:185:ARG:HB2	23:D1:45:ALA:H	1.66	0.60
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.83	0.60
37:3:60:G:H2'	37:3:61:G:C8	2.36	0.60
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.34	0.60
1:6:1523:G:N7	21:c9:68:ARG:NH1	2.49	0.60
2:s0:50:VAL:HG23	19:c7:109:LEU:HD21	1.82	0.60
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.82	0.60
4:s2:137:ILE:HG12	4:s2:138:PRO:HD2	1.82	0.60
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.83	0.60
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.19	0.60
18:c6:55:VAL:HG21	18:c6:105:LEU:HG	1.82	0.60
34:sR:159:ASN:O	34:sR:161:LYS:N	2.33	0.60
36:5:2578:U:OP1	86:5:4038:OHX:N4	2.34	0.60
36:5:2688:U:OP1	42:l5:12:TYR:OH	2.19	0.60
42:l5:259:LYS:H	42:l5:259:LYS:HE2	1.66	0.60
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.83	0.60
53:m7:26:PHE:HE1	53:m7:120:ASN:HA	1.66	0.60
1:2:358:U:O4	86:2:2027:OHX:N1	2.34	0.60
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.01	0.60
9:S7:153:LEU:HD22	9:S7:184:GLU:HB2	1.82	0.60
14:C2:68:GLU:O	14:C2:70:ASN:N	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3095:U:H2'	36:1:3096:C:C6	2.36	0.60
38:4:11:C:H2'	38:4:12:A:H8	1.66	0.60
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.36	0.60
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.34	0.60
2:s0:56:LYS:HZ1	2:s0:158:VAL:HA	1.66	0.60
6:s4:107:GLY:HA2	6:s4:189:LEU:HG	1.82	0.60
12:c0:21:VAL:HB	12:c0:66:TYR:HB2	1.82	0.60
13:c1:16:GLN:HE22	13:c1:33:ARG:HA	1.66	0.60
13:c1:123:VAL:HG12	13:c1:125:VAL:HG13	1.83	0.60
36:5:498:A:H2'	36:5:499:G:C8	2.36	0.60
36:5:1656:A:OP2	70:o4:37:LYS:NZ	2.33	0.60
36:5:1790:G:O6	86:5:4114:OHX:N4	2.35	0.60
36:5:2163:C:H4'	39:l2:8:GLN:HA	1.83	0.60
38:8:87:G:O6	86:o7:502:OHX:N1	2.34	0.60
39:l2:144:ASN:O	39:l2:160:SER:N	2.21	0.60
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.36	0.60
57:n1:45:ASN:OD1	57:n1:47:SER:OG	2.20	0.60
15:C3:64:ARG:HG3	15:C3:70:LYS:HG2	1.84	0.60
34:SR:20:VAL:O	34:SR:291:SER:OG	2.15	0.60
36:1:2218:G:H2'	36:1:2219:A:H8	1.67	0.60
36:1:3098:G:H4'	40:L3:278:ILE:HD11	1.84	0.60
86:1:3854:OHX:N4	44:L7:217:PRO:O	2.35	0.60
40:L3:92:TYR:HB2	40:L3:157:VAL:HG22	1.82	0.60
49:M3:28:GLN:HB3	51:M5:201:ARG:HD3	1.82	0.60
1:6:187:G:H4'	1:6:188:A:OP1	2.02	0.60
1:6:1010:C:OP2	86:6:2086:OHX:N4	2.34	0.60
10:s8:10:LYS:HG2	13:c1:133:LYS:HE2	1.82	0.60
22:d0:95:ALA:HB1	22:d0:99:ILE:HG13	1.82	0.60
35:sM:119:ALA:O	35:sM:121:LYS:N	2.33	0.60
57:n1:104:GLU:O	57:n1:107:GLU:N	2.34	0.60
62:n6:36:SER:HB2	62:n6:37:LYS:HE2	1.82	0.60
63:n7:97:SER:O	63:n7:100:THR:OG1	2.19	0.60
1:2:336:G:OP2	86:2:2075:OHX:N3	2.34	0.60
1:2:1535:U:O2'	1:2:1536:G:N3	2.29	0.60
1:2:1724:U:H4'	60:N4:47:ARG:NH2	2.16	0.60
1:2:1785:U:H2'	1:2:1786:G:H8	1.66	0.60
3:S1:147:ALA:O	3:S1:148:ASN:ND2	2.34	0.60
36:1:3124:G:OP1	52:M6:134:LYS:NZ	2.35	0.60
37:3:71:G:H2'	37:3:72:A:C8	2.36	0.60
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	1.66	0.60
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:459:G:OP2	26:d4:105:ARG:NH2	2.31	0.60
1:6:500:C:O2'	1:6:501:U:O4'	2.19	0.60
15:c3:65:VAL:O	15:c3:67:THR:N	2.31	0.60
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	1.83	0.60
36:5:1066:G:OP1	86:5:4152:OHX:N2	2.35	0.60
48:m1:107:ASP:OD1	48:m1:107:ASP:N	2.35	0.60
54:m8:64:VAL:HG11	54:m8:113:LYS:HD2	1.83	0.60
61:n5:132:ALA:O	61:n5:135:ILE:HG22	2.02	0.60
63:n7:88:ASP:HB3	63:n7:121:ARG:HH12	1.66	0.60
66:o0:34:LEU:HD23	66:o0:59:TYR:HB3	1.83	0.60
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.32	0.60
28:D6:51:ARG:HH11	30:D8:60:GLU:HG2	1.67	0.60
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.36	0.60
36:1:829:U:H3	36:1:895:A:H62	1.48	0.60
36:1:1493:G:O6	75:O9:2:ALA:HB2	2.01	0.60
36:1:1742:U:H2'	36:1:1743:G:C8	2.37	0.60
36:1:2786:G:N7	86:1:3938:OHX:N1	2.49	0.60
36:1:2828:G:OP2	47:M0:7:ARG:NH2	2.33	0.60
41:L4:317:PRO:O	41:L4:319:LYS:N	2.35	0.60
60:N4:6:ASP:HB3	60:N4:10:GLY:H	1.66	0.60
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.67	0.60
4:s2:128:GLY:O	4:s2:132:ALA:N	2.33	0.60
11:s9:143:ILE:O	11:s9:145:SER:N	2.35	0.60
14:c2:103:LEU:HD23	14:c2:115:VAL:HA	1.82	0.60
36:5:714:G:N7	64:n8:111:LYS:NZ	2.42	0.60
36:5:1566:A:N6	36:5:1571:A:N1	2.50	0.60
36:5:2507:C:O2'	36:5:2508:U:OP1	2.18	0.60
1:2:399:A:H4'	6:S4:3:ARG:HG2	1.83	0.60
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.34	0.60
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.83	0.60
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.84	0.60
23:D1:3:ASN:HD21	23:D1:5:LYS:HE3	1.66	0.60
36:1:2169:G:O6	86:1:3809:OHX:N2	2.35	0.60
71:O5:95:PHE:O	71:O5:98:SER:OG	2.17	0.60
2:s0:163:ASN:C	2:s0:165:ARG:H	2.10	0.60
5:s3:202:LEU:O	5:s3:204:ASP:N	2.28	0.60
55:m9:148:ASP:OD1	55:m9:151:ARG:NH2	2.34	0.60
1:2:386:G:H5''	10:S8:23:LYS:HE2	1.82	0.60
8:S6:10:ASN:ND2	8:S6:127:THR:O	2.35	0.60
33:E1:113:LYS:H	33:E1:113:LYS:HD2	1.67	0.60
36:1:147:U:OP2	45:L8:136:LEU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1733:G:OP2	86:1:3812:OHX:N2	2.35	0.60
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.67	0.60
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.66	0.60
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.81	0.60
62:N6:37:LYS:HG2	62:N6:38:GLU:H	1.67	0.60
1:6:454:U:H3'	1:6:455:C:C6	2.36	0.60
1:6:591:A:H2'	1:6:592:A:H8	1.66	0.60
8:s6:116:LYS:HD2	8:s6:125:THR:HG21	1.83	0.60
40:l3:224:HIS:HB2	40:l3:270:ARG:HG2	1.82	0.60
45:l8:65:LEU:O	45:l8:69:LEU:HD13	2.02	0.60
52:m6:39:GLU:HG2	52:m6:40:GLU:HG2	1.83	0.60
1:2:86:A:O2'	1:2:147:A:N3	2.32	0.60
25:D3:96:VAL:HG12	25:D3:127:VAL:HG11	1.82	0.60
36:1:2314:U:O2'	36:1:2315:G:OP1	2.19	0.60
36:1:3094:A:H2'	36:1:3095:U:C6	2.37	0.60
16:c4:20:TYR:HD1	16:c4:84:ARG:HG3	1.67	0.60
17:c5:37:ALA:O	17:c5:42:ARG:NH1	2.35	0.60
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.84	0.60
36:5:1178:G:H5'	69:o3:18:ARG:HD3	1.83	0.60
36:5:2703:A:N6	42:l5:28:THR:O	2.32	0.60
78:q2:17:CYS:SG	78:q2:77:CYS:CB	2.90	0.60
1:2:1114:G:O6	86:2:2042:OHX:N6	2.35	0.59
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.34	0.59
14:C2:62:LEU:HD22	14:C2:75:VAL:HG11	1.84	0.59
36:1:138:U:H2'	36:1:139:G:C8	2.37	0.59
36:1:943:U:H3'	64:N8:13:GLY:HA2	1.83	0.59
36:1:1556:C:H2'	36:1:2169:G:N1	2.16	0.59
37:3:11:A:O2'	37:3:13:A:OP2	2.19	0.59
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.84	0.59
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.83	0.59
1:6:1039:A:O2'	1:6:1040:G:O5'	2.18	0.59
1:6:1438:G:O2'	5:s3:179:GLN:NE2	2.35	0.59
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.35	0.59
29:d7:11:THR:O	29:d7:13:ALA:N	2.35	0.59
36:5:1076:C:O3'	65:n9:38:LYS:NZ	2.35	0.59
36:5:1661:G:O6	86:5:3837:OHX:N1	2.34	0.59
17:C5:65:LEU:O	86:C5:201:OHX:N1	2.35	0.59
36:1:1278:A:O2'	36:1:1279:C:O5'	2.20	0.59
36:1:2526:C:O2'	45:L8:241:LYS:NZ	2.30	0.59
48:M1:91:LEU:HD22	48:M1:95:ASN:HD22	1.66	0.59
55:M9:78:TYR:HA	55:M9:81:ARG:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:84:ARG:NH1	63:N7:85:TYR:OH	2.35	0.59
31:d9:47:ALA:HA	31:d9:50:ILE:HD12	1.85	0.59
36:5:2102:U:H2'	36:5:2103:U:H6	1.67	0.59
39:l2:104:LEU:HD22	39:l2:162:ALA:HB3	1.84	0.59
52:m6:58:LEU:HA	52:m6:72:HIS:CD2	2.38	0.59
53:m7:116:HIS:HB3	53:m7:149:VAL:HB	1.84	0.59
1:2:159:U:H5'	26:D4:117:LYS:HD3	1.83	0.59
1:2:732:G:O2'	1:2:733:A:O4'	2.20	0.59
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.84	0.59
36:1:1211:U:H2'	36:1:1212:A:C8	2.37	0.59
36:1:1740:U:H1'	36:1:1741:A:H2	1.67	0.59
36:1:3313:U:H4'	40:L3:173:GLN:OE1	2.03	0.59
63:N7:57:HIS:HB3	63:N7:62:VAL:HG22	1.83	0.59
1:6:1213:G:O6	86:6:2039:OHX:N6	2.35	0.59
4:s2:89:GLN:HA	4:s2:94:GLN:HA	1.83	0.59
10:s8:22:ARG:HE	10:s8:25:ARG:HD2	1.67	0.59
26:d4:12:VAL:HG22	26:d4:23:PHE:HB3	1.83	0.59
30:d8:9:LEU:HB3	30:d8:33:LEU:HD12	1.83	0.59
36:5:90:C:OP1	64:n8:59:ARG:NH1	2.35	0.59
36:5:2102:U:H2'	36:5:2103:U:C6	2.38	0.59
36:5:3199:G:O6	86:5:4053:OHX:N5	2.36	0.59
47:m0:200:LEU:HD12	47:m0:213:PHE:HB2	1.84	0.59
58:n2:18:ASP:N	58:n2:103:TYR:O	2.32	0.59
83:f:92:LEU:HD12	83:f:134:LEU:H	1.67	0.59
1:2:1298:U:O3'	4:S2:212:LYS:NZ	2.36	0.59
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.37	0.59
19:C7:6:THR:OG1	19:C7:7:LYS:N	2.33	0.59
21:C9:125:SER:O	21:C9:129:GLN:N	2.29	0.59
30:D8:13:ILE:HD11	30:D8:31:GLU:HB2	1.84	0.59
36:1:1902:G:C6	36:1:1903:U:C2	2.91	0.59
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.33	0.59
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.01	0.59
1:6:4:C:OP1	4:s2:200:SER:OG	2.20	0.59
1:6:636:A:H5''	24:d2:31:SER:HB2	1.85	0.59
1:6:819:G:O2'	1:6:821:U:OP2	2.20	0.59
1:6:1263:G:C2	1:6:1264:G:H1'	2.37	0.59
4:s2:227:PRO:HA	4:s2:230:TRP:CG	2.38	0.59
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.34	0.59
33:e1:120:GLU:HB2	33:e1:130:VAL:HB	1.84	0.59
36:5:98:G:OP1	49:m3:16:LYS:NZ	2.35	0.59
36:5:1751:G:C8	74:o8:26:LYS:HE3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3045:G:O3'	40:l3:275:ARG:NH1	2.36	0.59
37:7:36:C:H4'	42:l5:155:THR:HG23	1.84	0.59
43:l6:105:TYR:HE1	43:l6:134:ARG:HD3	1.66	0.59
46:l9:89:LYS:HG2	46:l9:145:VAL:HG22	1.84	0.59
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.32	0.59
56:n0:141:LYS:HA	56:n0:144:LEU:HD12	1.83	0.59
79:q3:46:THR:HB	79:q3:58:SER:HB3	1.83	0.59
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.67	0.59
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.84	0.59
30:D8:31:GLU:OE2	30:D8:36:THR:OG1	2.16	0.59
34:SR:300:THR:HG23	34:SR:314:GLN:HG2	1.83	0.59
36:1:2128:C:OP1	86:1:3853:OHX:N2	2.35	0.59
36:1:2137:U:OP1	86:1:3838:OHX:N6	2.35	0.59
36:1:3122:A:N1	46:L9:70:THR:HG21	2.17	0.59
37:3:36:C:H4'	42:L5:155:THR:HG23	1.85	0.59
39:L2:13:GLY:HA2	39:L2:16:PHE:HB2	1.85	0.59
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.67	0.59
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.83	0.59
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	2.02	0.59
1:6:680:U:OP1	86:6:2138:OHX:N4	2.35	0.59
1:6:884:A:H2'	1:6:885:G:C8	2.38	0.59
1:6:1500:C:H2'	1:6:1501:C:H6	1.67	0.59
2:s0:55:GLU:OE2	23:d1:80:LYS:N	2.27	0.59
3:s1:36:SER:OG	3:s1:41:ARG:NH2	2.30	0.59
36:5:2242:A:H5'	39:l2:243:THR:HG23	1.84	0.59
36:5:2373:A:N7	36:5:2867:C:H1'	2.17	0.59
36:5:2786:G:N2	64:n8:58:MET:SD	2.70	0.59
86:5:3828:OHX:N4	57:n1:13:TYR:O	2.36	0.59
71:o5:85:THR:HB	71:o5:88:LEU:HB2	1.83	0.59
7:S5:128:ASN:OD1	7:S5:128:ASN:N	2.35	0.59
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.85	0.59
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	1.83	0.59
35:SM:153:ASP:O	35:SM:155:LEU:N	2.32	0.59
36:1:211:A:OP1	41:L4:220:ARG:HD2	2.02	0.59
36:1:599:C:OP1	41:L4:332:LYS:NZ	2.36	0.59
36:1:2236:G:OP1	86:1:4014:OHX:N6	2.36	0.59
40:L3:370:PHE:HB3	40:L3:375:GLU:HG2	1.85	0.59
1:6:1584:G:N2	1:6:1611:A:OP2	2.27	0.59
2:s0:71:GLU:O	2:s0:96:THR:HG22	2.02	0.59
4:s2:99:LYS:HG3	4:s2:117:THR:HB	1.83	0.59
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:27:A:H2'	37:7:28:C:C6	2.38	0.59
1:2:145:A:O2'	1:2:146:U:O5'	2.19	0.59
1:2:591:A:H2'	1:2:592:A:C8	2.38	0.59
1:2:1233:G:OP2	86:2:2127:OHX:N5	2.35	0.59
1:2:1533:C:H4'	1:2:1539:G:N1	2.17	0.59
16:C4:16:VAL:O	16:C4:30:VAL:HA	2.02	0.59
26:D4:20:ARG:NH1	26:D4:22:GLN:OE1	2.31	0.59
46:L9:124:ARG:HG2	46:L9:164:ILE:HD12	1.84	0.59
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.84	0.59
54:M8:116:LYS:NZ	64:N8:88:ASP:OD2	2.36	0.59
55:M9:28:GLU:OE2	86:M9:202:OHX:N6	2.35	0.59
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.35	0.59
1:6:249:U:H3'	1:6:250:C:H5'	1.84	0.59
1:6:532:U:H2'	1:6:533:U:O4'	2.03	0.59
1:6:1533:C:OP2	27:d5:77:ARG:NH1	2.22	0.59
3:s1:27:LYS:NZ	16:c4:37:GLU:OE1	2.24	0.59
32:e0:42:ARG:O	32:e0:44:PHE:N	2.36	0.59
36:5:92:G:H5'	36:5:93:C:H5''	1.84	0.59
36:5:1049:C:H2'	36:5:1050:U:H6	1.66	0.59
36:5:1743:G:O6	86:5:4010:OHX:N1	2.35	0.59
42:l5:34:LYS:O	42:l5:38:THR:OG1	2.20	0.59
1:2:358:U:OP2	86:2:2057:OHX:N4	2.36	0.59
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.83	0.59
34:SR:69:GLN:HG2	34:SR:111:MET:HA	1.85	0.59
36:1:541:U:O4	86:1:3951:OHX:N6	2.36	0.59
36:1:3159:C:H2'	36:1:3160:U:H6	1.68	0.59
40:L3:58:ARG:NH1	40:L3:352:GLU:OE1	2.26	0.59
43:L6:35:VAL:O	43:L6:38:THR:OG1	2.15	0.59
45:L8:82:LEU:HD13	45:L8:222:PHE:HE2	1.68	0.59
53:M7:116:HIS:HB3	53:M7:149:VAL:HB	1.85	0.59
75:O9:50:ASN:OD1	86:O9:101:OHX:N5	2.36	0.59
1:6:1324:G:OP2	86:6:2070:OHX:N2	2.36	0.59
1:6:1424:A:H4'	4:s2:90:THR:HG21	1.84	0.59
51:m5:119:TYR:OH	51:m5:131:GLU:OE1	2.15	0.59
83:f:133:ASP:OD2	83:f:133:ASP:N	2.31	0.59
1:2:1370:U:O4	86:2:2089:OHX:N6	2.36	0.59
1:2:1434:U:O2'	1:2:1436:A:OP1	2.19	0.59
7:S5:73:THR:HG23	18:C6:114:ARG:HD3	1.82	0.59
8:S6:56:ASN:ND2	8:S6:60:GLY:O	2.35	0.59
19:C7:75:GLU:O	19:C7:79:GLU:HG2	2.03	0.59
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:532:A:H2	36:1:560:G:H22	1.50	0.59
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.35	0.59
1:6:68:A:H5'	8:s6:160:ARG:HH12	1.68	0.59
1:6:159:U:O2'	8:s6:87:ARG:NH1	2.36	0.59
1:6:207:U:H3	1:6:258:C:H42	1.49	0.59
1:6:1559:A:H5''	20:c8:135:GLY:HA3	1.85	0.59
11:s9:104:PHE:HB3	11:s9:147:MET:HE1	1.85	0.59
14:c2:28:LEU:HD22	14:c2:32:LEU:HG	1.84	0.59
20:c8:92:ILE:HG23	20:c8:93:THR:HG23	1.85	0.59
21:c9:61:VAL:HG11	21:c9:105:LEU:HD21	1.83	0.59
36:5:549:U:H2'	36:5:550:A:C8	2.38	0.59
36:5:576:C:OP1	44:l7:241:LYS:NZ	2.34	0.59
36:5:3035:A:OP2	86:5:3965:OHX:N5	2.35	0.59
39:l2:143:GLU:O	39:l2:145:LYS:N	2.35	0.59
62:n6:69:LYS:O	62:n6:83:ASP:N	2.33	0.59
1:2:9:U:O4	86:2:2132:OHX:N6	2.36	0.59
1:2:918:U:H2'	1:2:919:A:C8	2.38	0.59
1:2:1347:U:O2	1:2:1516:A:H5''	2.03	0.59
1:2:1794:A:H1'	28:D6:79:ILE:HD12	1.83	0.59
5:S3:21:LEU:HD22	5:S3:25:PHE:HE2	1.67	0.59
28:D6:24:VAL:HG11	28:D6:71:LEU:HD13	1.84	0.59
36:1:337:G:OP2	41:L4:196:ASN:ND2	2.35	0.59
36:1:1887:A:OP2	86:1:3788:OHX:N4	2.36	0.59
36:1:2771:U:O2'	36:1:2772:C:O4'	2.14	0.59
36:1:3358:U:H2'	36:1:3359:A:O4'	2.01	0.59
86:4:219:OHX:N6	73:O7:60:GLY:O	2.35	0.59
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.84	0.59
45:L8:75:ILE:C	45:L8:77:GLN:H	2.09	0.59
52:M6:65:ASN:C	52:M6:67:THR:H	2.10	0.59
63:N7:33:SER:HB2	63:N7:40:HIS:CE1	2.38	0.59
72:O6:33:ALA:O	72:O6:34:SER:HB3	2.03	0.59
3:s1:87:ARG:NH2	3:s1:220:GLN:OE1	2.36	0.59
3:s1:134:VAL:HB	3:s1:219:LYS:H	1.68	0.59
6:s4:112:HIS:NE2	6:s4:237:SER:HB2	2.18	0.59
9:s7:99:LEU:HG	9:s7:116:ARG:HG2	1.84	0.59
24:d2:101:TYR:O	24:d2:129:VAL:N	2.30	0.59
36:5:439:C:H4'	36:5:440:A:H5'	1.85	0.59
36:5:1108:U:H2'	36:5:1109:U:H6	1.68	0.59
36:5:3005:A:OP2	86:5:4015:OHX:N2	2.35	0.59
41:l4:233:LEU:HD22	41:l4:238:LEU:HD11	1.85	0.59
1:2:588:U:OP2	32:E0:26:LYS:NZ	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:24:ILE:HG12	22:D0:116:VAL:HG22	1.85	0.58
22:D0:65:ILE:HD12	31:D9:43:PHE:CE2	2.38	0.58
31:D9:12:ARG:HG3	31:D9:18:SER:HA	1.85	0.58
34:SR:286:GLU:OE2	86:SR:401:OHX:N5	2.36	0.58
36:1:314:U:H2'	36:1:315:C:C6	2.37	0.58
36:1:980:A:H2'	36:1:981:U:C2	2.38	0.58
36:1:2704:A:OP2	86:1:3765:OHX:N4	2.34	0.58
39:L2:201:GLY:O	39:L2:204:MET:HG2	2.03	0.58
41:L4:38:VAL:O	41:L4:42:VAL:HG23	2.02	0.58
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.84	0.58
71:O5:85:THR:HB	71:O5:88:LEU:H	1.68	0.58
1:6:985:G:O6	86:6:2014:OHX:N6	2.37	0.58
7:s5:77:TYR:CZ	7:s5:87:CYS:HB2	2.38	0.58
12:c0:58:GLN:HB3	12:c0:65:TYR:HB2	1.84	0.58
17:c5:18:ARG:NH1	20:c8:90:ASN:O	2.36	0.58
36:5:529:A:H2'	36:5:530:G:O4'	2.03	0.58
36:5:1239:C:N4	36:5:1249:G:H1	2.01	0.58
36:5:1667:A:H2'	36:5:1668:G:C8	2.38	0.58
39:l2:27:ALA:HB3	39:l2:128:ARG:NH2	2.18	0.58
49:m3:106:GLN:HB2	72:o6:20:MET:HG3	1.85	0.58
1:2:1274:C:N4	35:SM:95:SER:HA	2.17	0.58
1:2:1335:U:H5'	22:D0:85:ARG:HH22	1.68	0.58
10:S8:9:HIS:ND1	10:S8:10:LYS:HG3	2.17	0.58
33:E1:116:LYS:NZ	33:E1:120:GLU:OE2	2.35	0.58
36:1:764:U:O4	86:1:3858:OHX:N2	2.36	0.58
36:1:1528:G:O2'	36:1:1588:A:N3	2.36	0.58
41:L4:265:GLU:H	41:L4:265:GLU:CD	2.10	0.58
49:M3:69:VAL:O	49:M3:149:GLN:NE2	2.30	0.58
15:c3:20:ARG:HD3	24:d2:56:HIS:CD2	2.38	0.58
22:d0:118:VAL:HG13	22:d0:119:ALA:H	1.68	0.58
36:5:419:G:N7	86:8:211:OHX:N3	2.49	0.58
41:l4:283:THR:OG1	41:l4:284:SER:N	2.35	0.58
43:l6:55:LEU:HD11	43:l6:66:SER:HB2	1.85	0.58
47:m0:205:SER:O	47:m0:205:SER:OG	2.21	0.58
47:m0:208:ASN:HA	47:m0:211:ARG:HG2	1.85	0.58
56:n0:26:ARG:HH11	57:n1:150:THR:HG21	1.68	0.58
69:o3:41:ALA:HB3	69:o3:74:THR:HG22	1.86	0.58
1:2:587:C:OP2	32:E0:23:LYS:NZ	2.35	0.58
1:2:855:A:C2	1:2:857:U:H1'	2.38	0.58
1:2:1349:G:H1	1:2:1376:C:H42	1.49	0.58
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:136:SER:OG	10:S8:137:LYS:N	2.36	0.58
34:SR:109:ASP:HB2	34:SR:127:ARG:HG3	1.85	0.58
36:1:268:A:C4	51:M5:12:ARG:HG2	2.39	0.58
36:1:1246:G:OP2	86:1:3999:OHX:N4	2.36	0.58
45:L8:71:VAL:HG22	45:L8:76:ALA:HB2	1.85	0.58
46:L9:87:LYS:HE2	46:L9:89:LYS:HE3	1.86	0.58
53:M7:172:GLN:OE1	69:O3:60:ARG:NH1	2.36	0.58
1:6:921:U:O4	86:6:2150:OHX:N3	2.36	0.58
14:c2:61:VAL:HG13	14:c2:121:VAL:HG23	1.83	0.58
22:d0:34:LEU:HD21	22:d0:89:ARG:HD2	1.86	0.58
44:l7:96:PRO:O	44:l7:99:PRO:HD2	2.03	0.58
76:q0:96:CYS:HA	76:q0:121:LEU:HD22	1.85	0.58
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.83	0.58
1:2:422:G:N7	86:2:2076:OHX:N3	2.50	0.58
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.35	0.58
3:S1:70:LEU:HD21	3:S1:79:HIS:CD2	2.38	0.58
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.86	0.58
4:S2:81:MET:N	4:S2:101:VAL:O	2.36	0.58
5:S3:38:GLU:OE2	5:S3:40:ARG:NH2	2.37	0.58
27:D5:38:HIS:CE1	27:D5:70:LYS:HD3	2.39	0.58
36:1:787:G:H2'	36:1:788:C:C6	2.37	0.58
36:1:830:A:OP1	86:1:3906:OHX:N3	2.35	0.58
36:1:1682:U:O2	58:N2:82:LYS:NZ	2.27	0.58
38:4:53:A:OP1	75:O9:19:GLN:NE2	2.36	0.58
1:6:87:C:O2'	1:6:169:A:N1	2.34	0.58
1:6:1699:G:H22	1:6:1702:A:H5''	1.69	0.58
2:s0:65:ALA:O	2:s0:67:ILE:N	2.33	0.58
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.16	0.58
15:c3:148:ALA:O	86:c3:201:OHX:N4	2.36	0.58
34:sR:239:GLU:O	34:sR:257:ALA:N	2.37	0.58
36:5:90:C:C2'	36:5:91:G:H5'	2.34	0.58
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.67	0.58
36:5:2864:A:H5''	47:m0:114:GLY:HA2	1.85	0.58
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.39	0.58
43:l6:91:VAL:HG23	43:l6:148:GLU:HG3	1.86	0.58
47:m0:12:GLN:HG2	47:m0:59:GLN:HG2	1.85	0.58
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.36	0.58
7:S5:57:SER:O	7:S5:59:VAL:N	2.30	0.58
34:SR:264:SER:HB2	34:SR:271:VAL:HG23	1.84	0.58
38:4:127:U:H2'	38:4:128:U:H5'	1.85	0.58
41:L4:194:TYR:HD1	41:L4:194:TYR:H	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	1.85	0.58
58:N2:22:PRO:HB2	58:N2:28:PHE:HB2	1.85	0.58
1:6:1498:G:H5''	21:c9:72:GLY:HA3	1.86	0.58
6:s4:175:PHE:HE2	6:s4:198:LYS:HD3	1.67	0.58
7:s5:35:GLN:O	7:s5:37:GLN:N	2.34	0.58
36:5:1481:A:H2'	36:5:1858:A:H1'	1.86	0.58
47:m0:216:TYR:O	86:m0:303:OHX:N4	2.37	0.58
49:m3:157:ARG:NH1	64:n8:146:GLU:OE1	2.29	0.58
1:2:654:C:H3'	1:2:655:G:H5''	1.86	0.58
1:2:1544:U:H4'	20:C8:132:ARG:NH2	2.18	0.58
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.02	0.58
3:S1:131:ASP:O	3:S1:133:TYR:N	2.35	0.58
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.85	0.58
36:1:1790:G:O6	86:1:4066:OHX:N4	2.37	0.58
36:1:2736:A:O2'	57:N1:68:THR:HG21	2.03	0.58
40:L3:170:PRO:HG2	40:L3:314:TYR:CZ	2.39	0.58
46:L9:49:ASN:C	46:L9:51:GLN:H	2.11	0.58
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	1.85	0.58
52:M6:172:ARG:HA	52:M6:175:THR:HG22	1.84	0.58
65:N9:23:LYS:HG3	65:N9:24:PRO:HD3	1.85	0.58
10:s8:25:ARG:O	10:s8:28:GLU:HG2	2.04	0.58
12:c0:14:TYR:OH	12:c0:34:GLU:OE1	2.19	0.58
36:5:860:G:C5	39:l2:181:LYS:HB3	2.39	0.58
36:5:2696:A:H2'	36:5:2697:A:C8	2.38	0.58
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.28	0.58
53:m7:28:ASN:O	53:m7:32:THR:HG23	2.03	0.58
1:2:1592:A:H2'	1:2:1593:A:C8	2.38	0.58
3:S1:59:ASP:HA	3:S1:62:LYS:HD3	1.86	0.58
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.85	0.58
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.39	0.58
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.86	0.58
14:C2:124:LYS:O	14:C2:126:TRP:N	2.35	0.58
34:SR:126:SER:OG	34:SR:127:ARG:N	2.36	0.58
36:1:1753:G:O6	86:1:3942:OHX:N6	2.36	0.58
36:1:3169:U:H2'	36:1:3170:A:O4'	2.03	0.58
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.36	0.58
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	1.84	0.58
56:N0:9:VAL:HG22	56:N0:61:ILE:HD13	1.86	0.58
67:O1:27:LYS:O	67:O1:31:ARG:HB2	2.03	0.58
68:O2:21:HIS:ND1	68:O2:24:ARG:HD2	2.18	0.58
1:6:899:G:H2'	1:6:900:A:H8	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:14:ALA:HA	2:s0:17:LEU:HD12	1.86	0.58
4:s2:183:ALA:HB1	4:s2:211:LEU:HD21	1.85	0.58
7:s5:117:THR:HA	7:s5:120:ILE:HD12	1.85	0.58
36:5:190:U:H2'	62:n6:60:ARG:HH22	1.68	0.58
38:8:106:C:H5''	38:8:108:C:OP2	2.03	0.58
41:l4:287:THR:O	41:l4:291:ASN:ND2	2.37	0.58
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.86	0.58
47:m0:193:ASP:CG	47:m0:194:GLY:H	2.11	0.58
48:m1:7:ASN:HA	48:m1:10:ARG:HD2	1.86	0.58
36:1:1240:A:H2	36:1:1248:C:H41	1.52	0.58
36:1:1683:A:OP2	58:N2:85:LYS:HE3	2.04	0.58
36:1:2169:G:O6	86:1:3809:OHX:N4	2.37	0.58
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.84	0.58
54:M8:170:ARG:NH1	64:N8:56:VAL:O	2.36	0.58
68:O2:81:ASP:O	68:O2:84:THR:HG23	2.03	0.58
6:s4:170:THR:O	6:s4:170:THR:OG1	2.17	0.58
6:s4:248:ILE:HB	11:s9:71:PHE:HE2	1.69	0.58
36:5:3098:G:H5'	40:l3:278:ILE:HD11	1.86	0.58
53:m7:25:SER:O	53:m7:29:THR:HG23	2.03	0.58
62:n6:37:LYS:HA	62:n6:40:ARG:HG2	1.86	0.58
1:2:812:A:OP1	1:2:858:G:N2	2.37	0.58
1:2:1516:A:OP1	22:D0:88:LYS:NZ	2.28	0.58
1:2:1696:G:H21	1:2:1705:C:H5	1.51	0.58
3:S1:27:LYS:NZ	3:S1:49:ASN:OD1	2.33	0.58
11:S9:78:ARG:HH22	11:S9:82:ARG:HH21	1.51	0.58
36:1:421:G:OP1	86:1:3920:OHX:N4	2.37	0.58
36:1:872:U:H2'	36:1:873:C:C6	2.39	0.58
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.18	0.58
36:1:3029:A:C5	36:1:3030:G:H1'	2.38	0.58
38:4:131:A:H5''	61:N5:93:TYR:CE2	2.39	0.58
39:L2:149:ARG:HE	39:L2:252:THR:HG21	1.69	0.58
40:L3:68:HIS:O	40:L3:70:ARG:N	2.37	0.58
46:L9:22:SER:OG	46:L9:23:ARG:N	2.36	0.58
1:6:820:U:O2'	1:6:821:U:H5''	2.04	0.58
1:6:1455:G:OP1	17:c5:122:THR:HG21	2.03	0.58
6:s4:105:VAL:HG11	6:s4:245:LYS:H	1.69	0.58
6:s4:166:SER:O	6:s4:168:LYS:HG2	2.04	0.58
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.37	0.58
30:d8:32:PHE:O	30:d8:34:GLU:N	2.33	0.58
36:5:336:A:OP2	62:n6:9:SER:OG	2.22	0.58
39:l2:135:ILE:HB	39:l2:149:ARG:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:80:ASN:ND2	61:n5:126:LEU:O	2.37	0.58
3:S1:62:LYS:O	3:S1:64:ARG:N	2.35	0.58
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.21	0.58
36:1:852:U:H2'	36:1:853:G:C8	2.39	0.58
36:1:2881:C:H2'	36:1:2882:U:H6	1.69	0.58
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.04	0.58
55:M9:101:VAL:HA	55:M9:104:ARG:CZ	2.34	0.58
1:6:1037:C:H2'	1:6:1038:U:C6	2.39	0.58
3:s1:226:GLY:HA2	36:5:2536:A:H4'	1.85	0.58
5:s3:202:LEU:C	5:s3:204:ASP:H	2.12	0.58
7:s5:175:LEU:C	7:s5:177:ILE:H	2.12	0.58
17:c5:25:LEU:HA	17:c5:28:MET:HE2	1.85	0.58
19:c7:21:TYR:OH	19:c7:62:GLN:OE1	2.21	0.58
36:5:717:C:OP1	36:5:718:G:N2	2.37	0.58
36:5:1073:U:H2'	36:5:1074:U:C6	2.38	0.58
40:l3:169:THR:CG2	40:l3:171:LEU:HB2	2.34	0.58
40:l3:206:ASP:OD1	40:l3:206:ASP:N	2.37	0.58
51:m5:42:PRO:HG3	51:m5:61:ILE:HG13	1.86	0.58
1:2:647:G:H22	1:2:687:G:H1	1.52	0.57
1:2:1396:U:H2'	1:2:1397:U:H6	1.69	0.57
9:S7:28:GLU:HG2	9:S7:38:LEU:HD13	1.85	0.57
36:1:796:U:H2'	36:1:797:U:H6	1.69	0.57
55:M9:68:GLN:O	55:M9:71:ARG:N	2.35	0.57
1:6:333:A:C6	1:6:334:G:C6	2.92	0.57
1:6:337:G:H3'	13:c1:133:LYS:HB2	1.86	0.57
1:6:1297:G:N2	1:6:1300:A:OP2	2.37	0.57
3:s1:41:ARG:HH22	3:s1:232:HIS:HA	1.68	0.57
15:c3:112:LYS:O	15:c3:116:ILE:HD13	2.04	0.57
36:5:83:U:OP2	86:5:4125:OHX:N4	2.37	0.57
36:5:1696:A:OP2	86:5:4101:OHX:N6	2.37	0.57
36:5:2724:U:H4'	57:n1:54:HIS:CD2	2.39	0.57
40:l3:20:LYS:HG2	40:l3:21:ARG:N	2.19	0.57
41:l4:282:SER:HB3	54:m8:126:GLN:HE21	1.67	0.57
44:l7:157:ASN:O	44:l7:159:GLN:HG2	2.04	0.57
47:m0:95:HIS:HB2	47:m0:128:ARG:HD2	1.84	0.57
49:m3:50:PRO:O	49:m3:52:ASP:N	2.37	0.57
54:m8:3:ILE:HB	54:m8:5:HIS:CE1	2.39	0.57
56:n0:93:GLU:HG3	56:n0:137:ARG:HD2	1.86	0.57
1:2:297:U:H5''	6:S4:37:LYS:HG2	1.84	0.57
1:2:788:A:N1	6:S4:51:ARG:NH2	2.52	0.57
22:D0:52:LYS:HB3	22:D0:93:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:169:ILE:HG13	34:SR:181:TRP:HB2	1.86	0.57
35:SM:61:ILE:HD12	35:SM:62:ARG:HG2	1.85	0.57
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.37	0.57
36:1:2726:C:O2'	36:1:2727:A:H2'	2.04	0.57
36:1:2908:G:O6	86:1:3770:OHX:N4	2.37	0.57
77:Q1:13:LEU:HD13	77:Q1:17:ARG:NH2	2.19	0.57
1:6:118:U:O4	86:6:2173:OHX:N4	2.37	0.57
1:6:263:C:H4'	1:6:292:U:H5'	1.85	0.57
1:6:1699:G:C2	1:6:1701:A:H5''	2.39	0.57
2:s0:38:PHE:O	2:s0:39:ASN:ND2	2.37	0.57
4:s2:53:ILE:HG12	4:s2:73:LEU:HD22	1.86	0.57
14:c2:128:ALA:HB3	14:c2:133:LEU:HD22	1.86	0.57
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.37	0.57
36:5:3244:A:OP2	40:l3:100:ARG:NH2	2.38	0.57
38:8:38:U:C4	71:o5:89:ARG:HD2	2.39	0.57
1:2:649:U:O2'	1:2:650:U:O4'	2.21	0.57
1:2:1524:A:H2'	1:2:1525:A:C8	2.39	0.57
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.87	0.57
36:1:191:U:H2'	36:1:192:C:C6	2.39	0.57
36:1:750:G:H1	36:1:783:A:H2	1.52	0.57
36:1:1611:G:H2'	36:1:1612:A:C8	2.38	0.57
36:1:1730:G:N7	66:O0:28:LYS:HB2	2.20	0.57
36:1:1804:A:H5''	70:O4:67:LYS:HE3	1.84	0.57
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.04	0.57
38:4:62:C:O2	86:4:223:OHX:N6	2.37	0.57
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.39	0.57
1:6:767:U:H5	11:s9:143:ILE:HG13	1.69	0.57
3:s1:209:ASN:O	3:s1:210:ILE:HG13	2.03	0.57
11:s9:93:LEU:HA	11:s9:96:VAL:HG13	1.86	0.57
36:5:2660:G:OP1	36:5:2750:U:O2'	2.22	0.57
37:7:91:G:H2'	37:7:92:A:H8	1.68	0.57
39:l2:53:GLY:O	39:l2:192:LYS:NZ	2.36	0.57
43:l6:142:ASP:O	43:l6:146:ILE:HG13	2.03	0.57
47:m0:218:ALA:O	86:m0:303:OHX:N3	2.37	0.57
59:n3:89:ASP:OD1	59:n3:90:GLY:N	2.37	0.57
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.03	0.57
79:q3:38:ASP:HA	79:q3:45:LYS:HA	1.85	0.57
83:f:110:LYS:O	83:f:112:ASP:N	2.37	0.57
1:2:1006:C:OP1	86:2:2002:OHX:N1	2.38	0.57
1:2:1169:G:N1	1:2:1575:G:OP2	2.34	0.57
1:2:1236:A:C1'	33:E1:138:ARG:HH22	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1570:A:OP1	86:2:2131:OHX:N6	2.37	0.57
20:C8:53:ASP:HB3	20:C8:56:LYS:HG3	1.85	0.57
36:1:528:U:H2'	36:1:529:A:C8	2.40	0.57
36:1:1440:G:H2'	36:1:1441:G:H8	1.69	0.57
36:1:2787:G:O6	86:1:3938:OHX:N3	2.37	0.57
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.70	0.57
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.19	0.57
1:6:65:A:O5'	8:s6:136:LYS:NZ	2.36	0.57
1:6:992:A:O2'	1:6:1785:U:O2	2.22	0.57
1:6:1160:A:H2'	1:6:1161:C:C6	2.39	0.57
11:s9:161:THR:HG22	11:s9:162:SER:H	1.69	0.57
18:c6:40:GLU:C	18:c6:42:GLU:H	2.12	0.57
27:d5:93:SER:HB3	27:d5:100:ILE:HB	1.86	0.57
36:5:289:A:H2	51:m5:93:LYS:HG3	1.68	0.57
36:5:1701:C:H2'	36:5:1702:U:O4'	2.04	0.57
36:5:3122:A:N1	46:l9:70:THR:HG21	2.19	0.57
36:5:3311:C:OP1	86:5:4157:OHX:N1	2.36	0.57
50:m4:134:ALA:HA	50:m4:137:LYS:HG3	1.87	0.57
52:m6:74:ARG:O	52:m6:142:SER:OG	2.20	0.57
63:n7:46:ILE:HD11	63:n7:49:TYR:CD2	2.39	0.57
72:o6:58:ILE:HG12	72:o6:59:ASP:N	2.18	0.57
1:2:885:G:H21	16:C4:123:SER:HB2	1.68	0.57
8:S6:167:LYS:HE2	8:S6:169:TYR:HE2	1.69	0.57
20:C8:49:LYS:NZ	20:C8:79:TYR:O	2.37	0.57
36:1:172:G:N7	86:1:3887:OHX:N5	2.52	0.57
36:1:621:A:O2'	86:1:4061:OHX:N5	2.37	0.57
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.40	0.57
36:1:1851:G:OP2	86:1:3873:OHX:N4	2.38	0.57
36:1:2635:A:H2	57:N1:10:ARG:NH1	2.01	0.57
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.37	0.57
1:6:195:G:O6	10:s8:141:ARG:NH2	2.37	0.57
1:6:567:A:N3	32:e0:14:VAL:HG21	2.19	0.57
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	1.86	0.57
4:s2:89:GLN:HG3	4:s2:93:GLY:O	2.04	0.57
7:s5:20:PHE:CZ	7:s5:22:PRO:HB3	2.40	0.57
7:s5:97:LEU:O	7:s5:180:ARG:NH2	2.38	0.57
11:s9:3:ARG:HD3	11:s9:3:ARG:H	1.70	0.57
21:c9:125:SER:O	21:c9:129:GLN:N	2.33	0.57
30:d8:13:ILE:HB	30:d8:29:ARG:HG3	1.85	0.57
36:5:956:U:OP1	86:5:4066:OHX:N2	2.38	0.57
36:5:1238:C:H2'	36:5:1239:C:C6	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:76:ALA:HB3	42:l5:109:THR:HG22	1.86	0.57
44:l7:64:GLN:HA	44:l7:67:ARG:HB2	1.86	0.57
48:m1:93:ASP:OD2	48:m1:156:LYS:NZ	2.36	0.57
54:m8:169:GLY:O	54:m8:174:ARG:HD2	2.03	0.57
57:n1:127:GLN:NE2	57:n1:127:GLN:O	2.37	0.57
59:n3:17:LEU:O	59:n3:52:ALA:N	2.29	0.57
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.85	0.57
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.86	0.57
7:S5:152:GLY:O	7:S5:154:ALA:N	2.37	0.57
34:SR:28:GLY:N	34:SR:75:ALA:O	2.35	0.57
36:1:781:G:O6	86:1:3837:OHX:N3	2.38	0.57
40:L3:188:ILE:HD12	40:L3:189:SER:H	1.70	0.57
44:L7:123:THR:HA	44:L7:126:LEU:HD12	1.87	0.57
5:s3:132:LYS:HD3	5:s3:192:PRO:HD2	1.87	0.57
8:s6:130:PRO:HB3	60:n4:81:PRO:HG2	1.85	0.57
11:s9:77:ILE:HG23	11:s9:86:LEU:HD23	1.87	0.57
15:c3:84:ILE:H	15:c3:84:ILE:HD13	1.70	0.57
36:5:328:U:O4	86:8:215:OHX:N1	2.38	0.57
36:5:1025:A:H3'	36:5:1026:A:H4'	1.86	0.57
36:5:1478:C:H2'	36:5:1479:U:C6	2.40	0.57
36:5:2213:A:H2'	36:5:2214:A:C8	2.40	0.57
38:8:10:A:H2'	38:8:11:C:C6	2.38	0.57
61:n5:67:ILE:HB	61:n5:83:VAL:HG12	1.87	0.57
63:n7:88:ASP:HB3	63:n7:121:ARG:NH1	2.20	0.57
1:2:1111:G:C2	1:2:1112:G:H1'	2.40	0.57
28:D6:38:ARG:O	28:D6:71:LEU:HB2	2.05	0.57
36:1:1612:A:H5''	74:O8:51:LEU:HD23	1.85	0.57
36:1:1802:C:O2'	70:O4:59:PRO:O	2.10	0.57
36:1:2164:A:OP1	39:L2:8:GLN:NE2	2.33	0.57
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.40	0.57
40:L3:46:PHE:HZ	40:L3:83:PRO:HA	1.68	0.57
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.84	0.57
51:M5:143:ARG:HH21	71:O5:92:LEU:HA	1.70	0.57
2:s0:142:PRO:HB3	23:d1:34:ILE:HD13	1.86	0.57
18:c6:6:SER:HB2	18:c6:23:LYS:HB3	1.86	0.57
23:d1:71:ARG:HG2	23:d1:83:TRP:CH2	2.40	0.57
36:5:345:G:O2'	38:8:25:G:N3	2.37	0.57
1:2:413:U:H2'	1:2:414:C:C6	2.40	0.57
1:2:1437:U:H5'	5:S3:176:LEU:HD23	1.87	0.57
3:S1:36:SER:O	3:S1:38:PHE:N	2.34	0.57
6:S4:57:ASN:HB2	6:S4:60:GLU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:69:HIS:HB3	26:D4:17:LEU:HD23	1.86	0.57
36:1:267:G:O4'	51:M5:50:ARG:HD2	2.04	0.57
36:1:2533:G:N7	86:1:3893:OHX:N4	2.53	0.57
36:1:2571:U:O2'	36:1:2572:C:O2	2.23	0.57
42:L5:287:ALA:O	42:L5:290:ILE:HG12	2.04	0.57
1:6:21:U:H2'	1:6:22:A:H8	1.70	0.57
1:6:895:G:H1	1:6:917:U:H3	1.51	0.57
9:s7:74:GLN:HG2	9:s7:131:PHE:CD2	2.39	0.57
16:c4:47:LYS:HB3	16:c4:62:LEU:HD23	1.87	0.57
36:5:1488:G:O2'	70:o4:10:ARG:O	2.23	0.57
36:5:1881:A:OP2	86:5:3945:OHX:N4	2.38	0.57
36:5:2731:U:OP2	86:5:4138:OHX:N2	2.38	0.57
42:l5:83:LEU:HB3	42:l5:88:ILE:HB	1.87	0.57
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	1.86	0.57
63:n7:103:GLN:HB3	63:n7:106:GLN:HG3	1.86	0.57
1:2:330:G:H2'	1:2:331:A:C8	2.40	0.57
1:2:458:G:OP1	26:D4:109:LYS:NZ	2.32	0.57
1:2:1229:G:O2'	1:2:1255:G:N2	2.37	0.57
4:S2:102:VAL:HG11	4:S2:129:ILE:HG12	1.86	0.57
9:S7:86:GLN:HG3	9:S7:87:ASP:H	1.69	0.57
14:C2:54:ARG:O	14:C2:85:LYS:NZ	2.37	0.57
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.33	0.57
36:1:2532:U:H3	36:1:2547:A:H61	1.51	0.57
40:L3:211:GLN:NE2	40:L3:283:TYR:O	2.33	0.57
51:M5:13:LYS:O	51:M5:16:SER:OG	2.17	0.57
1:6:524:U:N3	1:6:527:A:OP2	2.34	0.57
11:s9:65:LYS:HA	11:s9:70:LEU:HD11	1.87	0.57
12:c0:54:TYR:CD2	12:c0:72:GLY:HA2	2.40	0.57
32:e0:13:LYS:O	32:e0:16:SER:OG	2.21	0.57
36:5:3113:A:OP2	86:5:3925:OHX:N4	2.38	0.57
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.40	0.57
47:m0:54:SER:HB2	47:m0:135:ILE:HD11	1.87	0.57
53:m7:21:TYR:H	53:m7:145:HIS:CE1	2.22	0.57
69:o3:69:GLY:HA3	69:o3:85:PHE:HA	1.85	0.57
1:2:142:G:H22	1:2:173:A:H2	1.53	0.57
1:2:189:C:H42	1:2:197:A:H2	1.51	0.57
1:2:895:G:H1	1:2:917:U:H3	1.51	0.57
1:2:1132:A:H2'	1:2:1133:A:H8	1.70	0.57
1:2:1237:G:OP2	86:2:2014:OHX:N1	2.37	0.57
1:2:1385:G:N7	86:2:2102:OHX:N3	2.53	0.57
1:2:1483:A:H2'	1:2:1484:G:C8	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:37:GLN:HE21	18:C6:46:PHE:HD1	1.53	0.57
15:C3:3:ARG:HB3	15:C3:6:SER:HB2	1.87	0.57
20:C8:102:ALA:O	20:C8:104:ASN:N	2.36	0.57
36:1:52:A:N3	36:1:811:U:O2'	2.38	0.57
36:1:739:G:O6	86:1:3815:OHX:N3	2.38	0.57
36:1:950:G:N1	36:1:1368:U:OP2	2.29	0.57
36:1:1677:G:N7	58:N2:74:LYS:HE3	2.20	0.57
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.38	0.57
36:1:3233:C:H2'	36:1:3234:A:C8	2.40	0.57
38:4:132:G:N7	86:4:224:OHX:N1	2.53	0.57
41:L4:53:SER:HB3	41:L4:56:ALA:HB2	1.87	0.57
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.87	0.57
51:M5:143:ARG:NH2	71:O5:92:LEU:HD23	2.19	0.57
1:6:209:U:H2'	1:6:210:A:H8	1.70	0.57
1:6:1529:C:OP1	7:s5:112:ARG:HD2	2.04	0.57
1:6:1573:A:H4'	1:6:1574:G:H5'	1.86	0.57
11:s9:75:ALA:HA	11:s9:78:ARG:HB3	1.87	0.57
15:c3:54:LEU:HB3	15:c3:60:VAL:HG13	1.87	0.57
21:c9:15:ILE:HD13	21:c9:60:SER:HA	1.86	0.57
33:e1:144:CYS:HB3	33:e1:147:VAL:HG12	1.87	0.57
36:5:171:G:O6	36:5:247:C:N4	2.38	0.57
36:5:1108:U:H2'	36:5:1109:U:C6	2.40	0.57
36:5:1557:A:N7	36:5:1559:A:N6	2.53	0.57
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.51	0.57
43:l6:105:TYR:CE1	43:l6:134:ARG:HD3	2.39	0.57
76:q0:110:CYS:SG	76:q0:111:ARG:N	2.78	0.57
1:2:1:U:C4	11:S9:54:ARG:HG3	2.40	0.56
8:S6:164:LYS:HD3	8:S6:167:LYS:HD3	1.87	0.56
9:S7:133:THR:HG22	9:S7:159:VAL:HG12	1.86	0.56
13:C1:39:GLY:O	13:C1:41:GLY:N	2.38	0.56
36:1:381:U:H2'	36:1:382:U:H6	1.70	0.56
41:L4:60:THR:HG22	41:L4:62:ALA:N	2.20	0.56
57:N1:48:ILE:HG13	57:N1:94:GLU:HG2	1.87	0.56
62:N6:36:SER:O	62:N6:38:GLU:N	2.38	0.56
63:N7:53:VAL:HG21	63:N7:62:VAL:HG13	1.86	0.56
66:O0:34:LEU:HD21	66:O0:42:ILE:HG21	1.87	0.56
1:6:1073:G:N7	86:6:2107:OHX:N1	2.53	0.56
6:s4:176:ASP:OD2	6:s4:176:ASP:N	2.37	0.56
7:s5:62:VAL:HG13	7:s5:89:ILE:HG12	1.87	0.56
29:d7:2:VAL:O	29:d7:3:LEU:HB2	2.05	0.56
36:5:248:U:O4	86:5:4130:OHX:N1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1365:G:OP2	86:5:3944:OHX:N3	2.38	0.56
36:5:2319:U:O4	86:5:3911:OHX:N2	2.38	0.56
36:5:3022:G:O2'	36:5:3031:G:O6	2.19	0.56
39:12:54:ARG:HG2	39:12:55:GLY:O	2.05	0.56
42:15:79:TYR:HB2	42:15:81:HIS:CD2	2.40	0.56
53:m7:22:LEU:HD12	53:m7:146:ILE:HG13	1.87	0.56
1:2:138:A:OP2	1:2:1706:C:O2'	2.19	0.56
1:2:1374:C:H2'	1:2:1375:A:C8	2.40	0.56
21:C9:135:ILE:O	21:C9:139:THR:OG1	2.19	0.56
27:D5:93:SER:HB2	27:D5:100:ILE:HB	1.86	0.56
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.70	0.56
36:1:2094:C:H2'	36:1:2095:G:C8	2.39	0.56
36:1:2969:A:N7	39:L2:215:ASN:ND2	2.54	0.56
55:M9:6:THR:HG23	55:M9:9:ARG:HH21	1.69	0.56
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	1.70	0.56
1:6:346:G:N7	86:6:2127:OHX:N2	2.53	0.56
1:6:550:A:OP2	86:6:2015:OHX:N6	2.37	0.56
1:6:776:G:O6	26:d4:11:LYS:NZ	2.35	0.56
1:6:1180:C:O2'	17:c5:128:HIS:HA	2.05	0.56
5:s3:192:PRO:HB2	5:s3:201:ALA:HA	1.87	0.56
9:s7:14:THR:OG1	9:s7:15:GLU:N	2.37	0.56
14:c2:60:VAL:HG23	14:c2:87:PRO:HG2	1.87	0.56
15:c3:42:ARG:HG2	15:c3:80:LEU:HD21	1.87	0.56
36:5:23:A:H2'	36:5:24:G:H8	1.68	0.56
36:5:891:G:OP1	86:5:3834:OHX:N2	2.38	0.56
36:5:2557:A:H5'	63:n7:135:ARG:HH22	1.70	0.56
36:5:2895:G:O2'	76:q0:100:TYR:O	2.20	0.56
36:5:3186:A:C2	46:l9:44:THR:HG22	2.40	0.56
36:5:3193:C:H2'	36:5:3194:C:H6	1.71	0.56
40:l3:114:VAL:HG22	40:l3:163:HIS:CE1	2.41	0.56
45:l8:139:VAL:O	45:l8:143:ILE:HG13	2.05	0.56
59:n3:89:ASP:OD1	59:n3:91:VAL:HG12	2.06	0.56
83:f:88:ASN:HB2	83:f:90:TYR:HE2	1.69	0.56
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.37	0.56
1:2:1251:U:H5'	33:E1:135:HIS:CD2	2.40	0.56
1:2:1291:G:N2	1:2:1324:G:H22	2.03	0.56
1:2:1300:A:OP1	4:S2:99:LYS:NZ	2.36	0.56
1:2:1352:G:H2'	1:2:1353:U:O4'	2.05	0.56
1:2:1564:U:H2'	1:2:1565:C:H6	1.71	0.56
1:2:1757:G:H4'	36:1:2256:A:N7	2.20	0.56
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:83:LYS:HE2	3:S1:106:THR:HG22	1.87	0.56
4:S2:41:LEU:HD12	4:S2:68:ILE:HD13	1.87	0.56
4:S2:51:THR:HG22	4:S2:52:THR:HG23	1.87	0.56
6:S4:208:VAL:HG11	6:S4:225:VAL:HG21	1.86	0.56
9:S7:69:GLY:HA2	9:S7:72:LYS:HD2	1.85	0.56
19:C7:20:TYR:CD1	19:C7:38:ILE:HD11	2.40	0.56
36:1:773:G:O6	86:1:3783:OHX:N6	2.38	0.56
36:1:1039:U:H2'	36:1:1040:A:C8	2.40	0.56
36:1:1064:A:H4'	36:1:1065:A:O5'	2.05	0.56
36:1:1196:C:O2	86:1:3889:OHX:N1	2.38	0.56
36:1:1831:U:O2'	38:4:114:G:OP1	2.19	0.56
36:1:1951:C:H3'	36:1:1952:G:H8	1.70	0.56
36:1:2378:C:H2'	36:1:2379:U:H6	1.69	0.56
36:1:3243:A:C8	52:M6:156:LEU:HD22	2.40	0.56
37:3:41:G:H1'	37:3:44:C:H42	1.71	0.56
39:L2:95:SER:OG	39:L2:96:LEU:N	2.36	0.56
40:L3:206:ASP:N	40:L3:206:ASP:OD1	2.31	0.56
41:L4:299:ILE:HG23	54:M8:39:ARG:HB3	1.86	0.56
42:L5:155:THR:HB	42:L5:179:ARG:HH11	1.69	0.56
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.87	0.56
44:L7:178:ILE:HD11	44:L7:187:GLU:HG2	1.86	0.56
46:L9:49:ASN:O	46:L9:49:ASN:ND2	2.36	0.56
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	1.87	0.56
54:M8:40:THR:C	54:M8:42:ALA:H	2.12	0.56
59:N3:40:LYS:HD3	59:N3:59:MET:HE2	1.87	0.56
68:O2:121:ASN:N	68:O2:121:ASN:OD1	2.38	0.56
1:6:86:A:OP2	86:6:2168:OHX:N1	2.38	0.56
1:6:1419:G:H2'	1:6:1420:C:O4'	2.06	0.56
5:s3:53:THR:HG21	5:s3:94:ARG:HD3	1.87	0.56
11:s9:31:ALA:HA	11:s9:36:LEU:HD12	1.87	0.56
12:c0:44:LYS:HA	12:c0:47:GLN:HB3	1.87	0.56
15:c3:7:ALA:O	15:c3:9:LYS:NZ	2.38	0.56
21:c9:57:ARG:O	21:c9:61:VAL:HG23	2.05	0.56
24:d2:101:TYR:HB2	24:d2:129:VAL:HG23	1.87	0.56
27:d5:61:SER:H	27:d5:64:VAL:HB	1.69	0.56
36:5:421:G:O6	36:5:2383:C:O2'	2.17	0.56
36:5:528:U:H2'	36:5:529:A:H8	1.70	0.56
36:5:1310:G:O6	86:5:3941:OHX:N4	2.38	0.56
36:5:2859:U:O2'	86:5:3819:OHX:N5	2.39	0.56
40:l3:76:VAL:HG12	40:l3:325:LYS:HA	1.86	0.56
40:l3:138:ALA:O	40:l3:140:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:284:ARG:NH2	40:l3:293:ASN:O	2.38	0.56
47:m0:14:ASN:O	47:m0:128:ARG:NH2	2.38	0.56
57:n1:132:PRO:O	57:n1:134:GLN:NE2	2.38	0.56
58:n2:33:TYR:HE1	58:n2:37:LEU:HD23	1.70	0.56
66:o0:13:LYS:O	66:o0:17:VAL:HG23	2.04	0.56
71:o5:45:LYS:HD2	71:o5:49:LYS:HD3	1.86	0.56
71:o5:82:ALA:HB1	71:o5:84:LYS:HD3	1.88	0.56
1:2:1606:C:H2'	1:2:1607:G:C8	2.40	0.56
1:2:1770:U:O2'	86:2:2061:OHX:N5	2.38	0.56
3:S1:191:GLU:OE1	3:S1:194:ASN:ND2	2.39	0.56
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.36	0.56
36:1:1365:G:OP2	86:1:3863:OHX:N6	2.39	0.56
36:1:2611:U:H2'	36:1:2612:U:C6	2.41	0.56
42:L5:233:ALA:O	42:L5:235:SER:N	2.38	0.56
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	1.87	0.56
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.86	0.56
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.41	0.56
1:6:1239:U:O4	86:6:2063:OHX:N1	2.37	0.56
8:s6:21:GLU:HA	8:s6:24:ILE:HG13	1.86	0.56
11:s9:11:THR:O	11:s9:47:PHE:HD2	1.89	0.56
34:sR:38:ARG:HG2	34:sR:67:ILE:HD13	1.85	0.56
36:5:2683:U:H2'	36:5:2684:C:H6	1.69	0.56
37:7:112:G:OP2	86:7:218:OHX:N6	2.39	0.56
42:l5:122:VAL:C	42:l5:124:GLU:H	2.14	0.56
43:l6:45:GLY:O	43:l6:48:ARG:HG2	2.06	0.56
45:l8:24:ASN:O	45:l8:26:LEU:N	2.37	0.56
49:m3:157:ARG:NH1	64:n8:124:ILE:HG21	2.19	0.56
56:n0:6:GLU:OE1	56:n0:99:ARG:NH2	2.35	0.56
56:n0:155:ARG:NH2	56:n0:172:TYR:H	2.03	0.56
61:n5:115:ARG:NH1	61:n5:119:THR:OG1	2.38	0.56
78:q2:15:LYS:HG3	78:q2:18:ARG:NH1	2.20	0.56
1:2:1156:C:C2'	1:2:1157:A:H5'	2.35	0.56
1:2:1290:U:H2'	1:2:1291:G:C8	2.41	0.56
2:S0:31:VAL:HG23	2:S0:150:ASP:HA	1.88	0.56
4:S2:109:GLY:HA2	4:S2:139:ILE:HG22	1.87	0.56
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.86	0.56
22:D0:66:SER:HA	22:D0:81:THR:HA	1.86	0.56
36:1:604:G:N7	86:1:4036:OHX:N4	2.53	0.56
38:4:11:C:H2'	38:4:12:A:C8	2.40	0.56
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	1.87	0.56
46:L9:163:GLN:OE1	46:L9:166:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.86	0.56
74:O8:11:PHE:O	74:O8:15:THR:HG23	2.05	0.56
1:6:1413:U:H4'	1:6:1414:U:OP2	2.05	0.56
1:6:1447:C:N3	33:e1:82:LYS:NZ	2.44	0.56
4:s2:53:ILE:HD12	4:s2:53:ILE:H	1.71	0.56
36:5:1284:C:O2'	36:5:1285:G:OP1	2.22	0.56
36:5:3383:G:H2'	36:5:3384:U:H6	1.70	0.56
39:l2:204:MET:HB3	39:l2:208:ASP:HB2	1.88	0.56
40:l3:5:LYS:HG2	40:l3:6:TYR:CE1	2.41	0.56
44:l7:151:ARG:HD2	44:l7:244:ASN:OD1	2.06	0.56
48:m1:155:THR:O	48:m1:159:THR:HG23	2.06	0.56
49:m3:105:ASN:OD1	49:m3:107:GLU:HG2	2.06	0.56
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.35	0.56
56:n0:44:PHE:C	56:n0:46:GLN:H	2.14	0.56
70:o4:80:ARG:HB2	70:o4:85:VAL:HG13	1.88	0.56
70:o4:96:GLU:OE1	70:o4:99:LYS:NZ	2.27	0.56
79:q3:59:CYS:SG	79:q3:60:CYS:N	2.77	0.56
1:2:78:A:OP2	86:S6:301:OHX:N3	2.39	0.56
1:2:194:U:O2'	1:2:195:G:O4'	2.23	0.56
6:S4:107:GLY:HA2	6:S4:189:LEU:HG	1.88	0.56
36:1:99:A:OP1	51:M5:194:GLN:NE2	2.38	0.56
36:1:1103:A:N7	44:L7:158:LYS:HD3	2.21	0.56
36:1:1240:A:H61	36:1:1244:A:H5''	1.70	0.56
36:1:1336:U:H2'	36:1:1337:A:H8	1.71	0.56
36:1:2771:U:OP2	36:1:2772:C:N4	2.34	0.56
38:4:11:C:OP2	86:4:230:OHX:N1	2.39	0.56
39:L2:114:SER:OG	39:L2:115:ASN:N	2.31	0.56
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.88	0.56
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.86	0.56
47:M0:46:PHE:CD1	47:M0:140:THR:HA	2.41	0.56
61:N5:135:ILE:HD11	61:N5:138:ARG:HH11	1.70	0.56
1:6:349:U:O4	86:6:2129:OHX:N6	2.39	0.56
1:6:1079:U:H2'	1:6:1080:U:O4'	2.05	0.56
1:6:1544:U:H4'	20:c8:132:ARG:CZ	2.36	0.56
14:c2:75:VAL:HG21	14:c2:120:VAL:HG21	1.86	0.56
20:c8:20:THR:HG21	20:c8:35:ILE:HG23	1.86	0.56
36:5:1807:G:H5'	63:n7:135:ARG:HH11	1.70	0.56
36:5:1846:C:H5'	36:5:1849:C:N4	2.21	0.56
36:5:2554:A:H62	79:q3:62:LYS:HZ2	1.52	0.56
36:5:2968:G:N7	39:l2:215:ASN:HB2	2.21	0.56
36:5:3295:A:H2'	36:5:3296:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:150:G:N7	86:8:216:OHX:N5	2.53	0.56
50:m4:22:LEU:HB3	50:m4:64:VAL:HG13	1.88	0.56
58:n2:28:PHE:CE1	58:n2:83:TYR:HE2	2.19	0.56
61:n5:101:GLU:HG2	61:n5:102:LEU:HD23	1.87	0.56
1:2:190:C:H42	10:S8:141:ARG:HH22	1.54	0.56
1:2:222:A:N6	1:2:839:U:H3	2.04	0.56
1:2:484:C:N4	1:2:503:G:H22	2.04	0.56
1:2:652:G:H1	1:2:682:C:H42	1.54	0.56
1:2:827:C:H2'	1:2:828:U:C6	2.40	0.56
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.39	0.56
6:S4:123:LEU:HA	6:S4:160:VAL:O	2.06	0.56
19:C7:17:ILE:HG12	19:C7:58:MET:HE2	1.87	0.56
19:C7:35:CYS:HA	19:C7:38:ILE:HG22	1.86	0.56
36:1:1738:C:H1'	70:O4:52:GLN:HG3	1.88	0.56
36:1:2310:U:OP1	86:1:4038:OHX:N1	2.39	0.56
36:1:3365:U:H2'	36:1:3366:G:C8	2.39	0.56
37:3:4:U:H2'	37:3:5:G:C8	2.41	0.56
38:4:38:U:C4	71:O5:89:ARG:HD2	2.41	0.56
48:M1:17:LEU:HB3	48:M1:76:ALA:HB1	1.86	0.56
78:Q2:77:CYS:SG	78:Q2:79:THR:OG1	2.61	0.56
3:s1:59:ASP:C	3:s1:61:LEU:H	2.12	0.56
18:c6:12:LYS:HG2	18:c6:17:THR:HA	1.88	0.56
33:e1:98:VAL:HG12	33:e1:99:LYS:H	1.70	0.56
36:5:655:C:H2'	36:5:656:A:C8	2.41	0.56
36:5:1114:U:H5''	64:n8:22:ILE:HD13	1.87	0.56
36:5:1440:G:N7	86:5:3880:OHX:N4	2.53	0.56
36:5:1770:G:N7	86:5:4140:OHX:N1	2.52	0.56
36:5:3241:G:H2'	36:5:3245:A:C8	2.41	0.56
86:5:4054:OHX:N4	38:8:43:A:OP1	2.39	0.56
38:8:24:G:OP2	62:n6:13:ARG:NH1	2.37	0.56
1:2:240:U:H4'	1:2:241:U:OP2	2.05	0.56
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.39	0.56
29:D7:36:LYS:HB3	29:D7:43:ILE:HG22	1.86	0.56
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.39	0.56
36:1:1812:G:O3'	36:1:1817:G:O2'	2.24	0.56
36:1:1845:G:O2'	73:O7:5:THR:HG22	2.05	0.56
36:1:2544:U:H2'	36:1:2545:C:C6	2.40	0.56
40:L3:95:THR:C	40:L3:97:ARG:H	2.14	0.56
42:L5:84:PRO:O	42:L5:86:TYR:N	2.39	0.56
51:M5:65:ARG:HB3	51:M5:127:TYR:HD1	1.69	0.56
62:N6:57:LEU:HB2	62:N6:67:GLU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Q1:8:LYS:HD3	77:Q1:12:ARG:NH2	2.21	0.56
79:Q3:32:GLN:HG2	79:Q3:70:THR:HB	1.88	0.56
1:6:485:A:N6	1:6:486:G:N3	2.53	0.56
1:6:845:G:H2'	1:6:846:G:C8	2.41	0.56
15:c3:18:TYR:HA	24:d2:56:HIS:CD2	2.41	0.56
17:c5:108:ARG:H	17:c5:111:MET:HE3	1.69	0.56
29:d7:23:THR:HG21	29:d7:29:ARG:NH2	2.21	0.56
34:sR:240:VAL:HG22	34:sR:256:THR:HG22	1.87	0.56
36:5:748:U:H2'	36:5:749:C:C6	2.41	0.56
36:5:1346:G:H1	36:5:1358:C:H42	1.54	0.56
40:l3:142:ALA:O	40:l3:144:ILE:N	2.38	0.56
41:l4:141:ARG:O	41:l4:143:GLU:N	2.39	0.56
53:m7:53:ASP:O	86:m7:204:OHX:N6	2.39	0.56
69:o3:49:ILE:HG23	69:o3:100:ILE:HG13	1.88	0.56
76:q0:99:CYS:SG	76:q0:115:CYS:SG	3.03	0.56
77:q1:1:MET:SD	77:q1:9:ARG:NH1	2.78	0.56
1:2:371:G:O2'	24:D2:88:LYS:NZ	2.36	0.56
1:2:1482:C:OP2	1:2:1521:G:N2	2.33	0.56
4:S2:243:TYR:HB3	4:S2:246:GLU:HG3	1.88	0.56
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	1.88	0.56
26:D4:8:ARG:HB2	26:D4:26:ASP:HB3	1.88	0.56
36:1:1711:C:H2'	36:1:1712:G:O4'	2.06	0.56
36:1:2534:G:H22	36:1:2545:C:H42	1.52	0.56
36:1:3019:U:O4	86:1:3884:OHX:N1	2.39	0.56
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.88	0.56
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.38	0.56
66:O0:43:ILE:HD11	66:O0:92:ILE:HD11	1.87	0.56
1:6:982:U:O3'	79:q3:24:ARG:NH2	2.38	0.56
2:s0:70:PRO:O	2:s0:95:ALA:N	2.33	0.56
8:s6:52:ILE:HG23	8:s6:109:LEU:HD21	1.86	0.56
26:d4:106:GLN:O	26:d4:110:GLN:HB2	2.06	0.56
27:d5:43:ASP:O	27:d5:45:GLU:N	2.38	0.56
36:5:595:G:H1	36:5:609:G:H5''	1.71	0.56
36:5:595:G:C8	36:5:609:G:C6	2.93	0.56
36:5:1611:G:H2'	36:5:1612:A:H8	1.71	0.56
36:5:3022:G:O2'	86:5:3996:OHX:N1	2.39	0.56
43:l6:38:THR:HG23	43:l6:90:LYS:HG2	1.86	0.56
71:o5:85:THR:HG22	71:o5:87:ALA:H	1.71	0.56
1:2:214:G:O2'	1:2:243:G:O6	2.24	0.56
1:2:1374:C:H2'	1:2:1375:A:H8	1.69	0.56
3:S1:175:GLU:O	3:S1:187:LYS:NZ	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:76:THR:HB	10:S8:105:ASP:HB2	1.86	0.56
36:1:2869:U:O2'	36:1:2873:U:OP1	2.20	0.56
36:1:3031:G:O6	86:1:3967:OHX:N2	2.38	0.56
47:M0:58:GLU:OE2	47:M0:161:GLY:HA3	2.06	0.56
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.87	0.56
1:6:1568:C:OP2	20:c8:36:LYS:NZ	2.39	0.56
1:6:1572:G:H2'	1:6:1572:G:N3	2.21	0.56
19:c7:104:ASN:O	19:c7:106:THR:N	2.37	0.56
21:c9:42:GLY:HA2	21:c9:84:LYS:HD2	1.87	0.56
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.88	0.56
44:l7:98:LYS:HB3	44:l7:99:PRO:HD3	1.88	0.56
48:m1:90:GLN:NE2	48:m1:170:ASP:OD1	2.39	0.56
59:n3:87:ARG:HH22	59:n3:137:VAL:HG22	1.70	0.56
60:n4:126:GLU:HA	60:n4:129:LYS:HE3	1.86	0.56
1:2:1523:G:H8	21:C9:79:LEU:HD13	1.72	0.55
4:S2:238:SER:C	4:S2:240:LEU:H	2.14	0.55
15:C3:148:ALA:O	15:C3:150:VAL:N	2.38	0.55
36:1:715:A:H4'	36:1:716:A:OP1	2.06	0.55
36:1:1508:C:C6	36:1:1880:U:H1'	2.41	0.55
36:1:1919:G:H1'	36:1:1934:G:N2	2.20	0.55
36:1:3199:G:O6	86:1:4027:OHX:N1	2.39	0.55
62:N6:40:ARG:O	62:N6:44:GLY:N	2.39	0.55
1:6:973:A:H2'	1:6:974:A:H8	1.70	0.55
1:6:1114:G:OP2	77:q1:6:ARG:NH1	2.39	0.55
1:6:1142:A:H5''	28:d6:2:PRO:HB3	1.87	0.55
2:s0:167:LYS:HE3	2:s0:168:HIS:CD2	2.41	0.55
4:s2:118:ALA:HB3	4:s2:124:ALA:HB2	1.88	0.55
7:s5:93:LEU:HD11	7:s5:198:LEU:HD11	1.87	0.55
25:d3:109:ARG:O	25:d3:112:LYS:NZ	2.38	0.55
32:e0:37:ARG:O	32:e0:41:THR:OG1	2.25	0.55
34:sR:95:ALA:O	34:sR:97:GLY:N	2.39	0.55
36:5:21:G:H1	38:8:138:A:H61	1.53	0.55
36:5:835:G:O2'	36:5:857:G:N2	2.27	0.55
36:5:1895:A:O2'	36:5:3053:G:H4'	2.06	0.55
36:5:1919:G:N7	86:5:3984:OHX:N4	2.54	0.55
36:5:3192:U:H2'	36:5:3193:C:C6	2.41	0.55
36:5:3343:G:H21	36:5:3362:A:H2	1.54	0.55
45:l8:163:VAL:HG22	45:l8:166:LEU:HD12	1.88	0.55
47:m0:61:SER:OG	47:m0:63:GLU:HG2	2.04	0.55
80:m2:61:LYS:HA	80:m2:74:GLN:HA	1.88	0.55
51:m5:45:PRO:O	51:m5:49:ARG:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:8:VAL:HG22	52:m6:34:VAL:HG13	1.88	0.55
58:n2:19:VAL:HG12	58:n2:105:LEU:HD22	1.88	0.55
62:n6:5:SER:HB2	62:n6:8:VAL:HG22	1.88	0.55
67:o1:13:THR:HG22	67:o1:72:ARG:HD3	1.87	0.55
78:q2:2:VAL:HG23	78:q2:91:PHE:HD1	1.70	0.55
1:2:1282:U:OP1	86:2:2084:OHX:N1	2.39	0.55
2:S0:136:ALA:HB1	2:S0:141:ILE:HB	1.87	0.55
3:S1:81:PHE:O	3:S1:83:LYS:N	2.39	0.55
9:S7:154:LEU:HD21	9:S7:183:PHE:HD1	1.72	0.55
15:C3:13:SER:OG	15:C3:14:SER:N	2.36	0.55
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.87	0.55
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.71	0.55
36:1:352:A:H61	36:1:365:A:H5''	1.69	0.55
36:1:1650:G:O6	86:1:4037:OHX:N2	2.39	0.55
36:1:1930:A:O2'	86:1:3794:OHX:N4	2.40	0.55
36:1:2697:A:H2'	36:1:2698:G:C8	2.41	0.55
39:L2:102:LEU:HD12	39:L2:166:ILE:HD11	1.86	0.55
63:N7:17:ARG:HA	70:O4:74:ARG:HA	1.88	0.55
17:c5:57:MET:HA	17:c5:60:LEU:HG	1.87	0.55
36:5:1814:A:OP1	86:5:4096:OHX:N1	2.38	0.55
36:5:2534:G:O6	86:5:3955:OHX:N2	2.40	0.55
38:8:38:U:O2'	71:o5:83:LYS:NZ	2.29	0.55
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.30	0.55
43:l6:100:LYS:NZ	43:l6:137:ASP:OD2	2.30	0.55
44:l7:222:HIS:CE1	44:l7:224:ILE:HG13	2.40	0.55
50:m4:109:ARG:HD3	52:m6:199:TYR:CZ	2.41	0.55
59:n3:108:GLU:HB3	59:n3:128:ARG:HH11	1.71	0.55
65:n9:14:ARG:NH1	65:n9:18:ARG:HD3	2.20	0.55
1:2:38:C:H2'	1:2:39:A:H5'	1.88	0.55
1:2:840:U:O2'	1:2:841:U:H5''	2.06	0.55
1:2:1780:G:OP2	86:2:2019:OHX:N3	2.38	0.55
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.38	0.55
3:S1:59:ASP:O	3:S1:62:LYS:NZ	2.39	0.55
34:SR:93:ASP:HB3	34:SR:96:THR:HB	1.88	0.55
36:1:212:G:OP1	36:1:227:G:N2	2.33	0.55
36:1:945:C:H2'	36:1:946:U:C6	2.41	0.55
36:1:2208:A:C6	86:1:3940:OHX:N4	2.74	0.55
36:1:2646:C:H4'	47:M0:119:TRP:CE2	2.42	0.55
59:N3:13:ILE:HG13	59:N3:53:SER:HB2	1.89	0.55
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.87	0.55
5:s3:223:LYS:HD3	34:sR:193:ILE:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:655:C:H2'	36:5:656:A:H8	1.71	0.55
36:5:1329:U:O2'	36:5:1330:A:H5''	2.07	0.55
36:5:1834:U:OP2	75:o9:10:LYS:NZ	2.34	0.55
36:5:2214:A:N1	36:5:2429:G:O2'	2.34	0.55
46:l9:137:SER:HB2	46:l9:143:GLU:HB3	1.87	0.55
70:o4:54:ILE:HD11	70:o4:78:GLY:HA2	1.88	0.55
1:2:131:C:OP1	86:2:2041:OHX:N4	2.40	0.55
1:2:196:G:O2'	1:2:197:A:OP2	2.23	0.55
1:2:990:C:OP2	86:2:2059:OHX:N1	2.39	0.55
1:2:1119:G:O6	86:2:2119:OHX:N1	2.39	0.55
1:2:1695:G:H21	1:2:1706:C:N4	2.05	0.55
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.41	0.55
15:C3:19:SER:O	15:C3:19:SER:OG	2.19	0.55
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.07	0.55
29:D7:49:HIS:CE1	29:D7:70:LYS:HG2	2.41	0.55
37:3:97:A:OP1	56:N0:40:ARG:NH1	2.39	0.55
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.05	0.55
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.06	0.55
42:L5:85:ARG:NH1	42:L5:250:ASP:O	2.32	0.55
46:L9:168:ARG:O	46:L9:170:LYS:HG2	2.06	0.55
50:M4:109:ARG:HD3	52:M6:199:TYR:CZ	2.41	0.55
52:M6:88:VAL:O	52:M6:90:HIS:N	2.40	0.55
55:M9:7:GLN:HG2	55:M9:32:ILE:HG22	1.88	0.55
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	1.89	0.55
68:O2:23:ASP:OD1	68:O2:23:ASP:N	2.35	0.55
1:6:986:G:OP2	86:6:2085:OHX:N6	2.39	0.55
7:s5:176:THR:O	7:s5:180:ARG:NH1	2.38	0.55
9:s7:155:ASP:OD2	9:s7:156:SER:N	2.35	0.55
24:d2:77:PRO:O	24:d2:79:PHE:N	2.39	0.55
36:5:1611:G:H2'	36:5:1612:A:C8	2.41	0.55
36:5:2683:U:H2'	36:5:2684:C:C6	2.41	0.55
41:l4:98:ARG:HG2	41:l4:99:MET:O	2.06	0.55
49:m3:9:ILE:HD11	64:n8:45:MET:HE1	1.87	0.55
72:o6:70:ARG:HG3	72:o6:87:VAL:HG21	1.87	0.55
1:2:980:G:O6	86:2:2012:OHX:N1	2.39	0.55
5:S3:214:GLU:OE1	34:SR:176:LYS:NZ	2.39	0.55
10:S8:107:THR:HG22	36:1:3354:U:C2	2.40	0.55
36:1:744:A:H4'	54:M8:142:GLY:O	2.07	0.55
36:1:1564:U:H2'	36:1:1565:G:C8	2.42	0.55
36:1:1778:G:N7	86:1:4029:OHX:N4	2.54	0.55
36:1:2217:U:H2'	36:1:2218:G:C8	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.88	0.55
36:1:3067:C:H5''	55:M9:58:HIS:CD2	2.42	0.55
36:1:3365:U:H2'	36:1:3366:G:H8	1.71	0.55
37:3:14:U:H5'	42:L5:24:ARG:NH1	2.22	0.55
47:M0:44:ASP:OD1	47:M0:185:ARG:NH1	2.37	0.55
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	2.39	0.55
1:6:358:U:O4	86:6:2041:OHX:N2	2.40	0.55
1:6:397:A:O3'	10:s8:50:GLY:HA2	2.06	0.55
3:s1:97:LEU:HB3	3:s1:232:HIS:NE2	2.22	0.55
5:s3:192:PRO:O	5:s3:195:SER:OG	2.21	0.55
14:c2:28:LEU:HD23	14:c2:31:VAL:HB	1.88	0.55
24:d2:8:ALA:HB2	24:d2:74:VAL:HG11	1.88	0.55
26:d4:125:LEU:O	26:d4:128:LYS:HB3	2.06	0.55
36:5:55:G:OP1	73:o7:43:LYS:NZ	2.26	0.55
36:5:678:G:O6	86:5:3930:OHX:N5	2.39	0.55
36:5:1715:A:H4'	36:5:1716:U:H5'	1.88	0.55
59:n3:133:SER:O	86:n3:202:OHX:N3	2.40	0.55
83:f:132:LYS:NZ	83:f:134:LEU:HD23	2.20	0.55
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.40	0.55
1:2:580:A:H5''	5:S3:143:ARG:NH1	2.22	0.55
1:2:901:G:OP2	1:2:901:G:N2	2.32	0.55
17:C5:43:ARG:O	17:C5:47:ARG:HG3	2.06	0.55
21:C9:111:ILE:HG23	21:C9:113:ILE:HG13	1.89	0.55
36:1:300:G:O6	86:1:4049:OHX:N1	2.40	0.55
36:1:1639:C:H5''	70:O4:72:VAL:HG11	1.88	0.55
36:1:1907:C:O2	40:L3:240:ARG:NH2	2.37	0.55
36:1:2186:U:H5'	36:1:2314:U:OP2	2.06	0.55
36:1:2314:U:HO2'	36:1:2315:G:P	2.28	0.55
36:1:3312:U:H5''	40:L3:25:ILE:HD12	1.87	0.55
38:4:126:A:O2'	38:4:128:U:OP1	2.24	0.55
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	2.41	0.55
45:L8:100:GLU:OE2	45:L8:108:ARG:NH1	2.40	0.55
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	1.87	0.55
1:6:1440:C:H2'	1:6:1441:C:O4'	2.06	0.55
1:6:1584:G:O2'	1:6:1610:G:O6	2.23	0.55
3:s1:113:MET:HE2	3:s1:142:PHE:CE2	2.41	0.55
8:s6:139:ASN:HA	8:s6:142:ARG:HG3	1.87	0.55
24:d2:83:ILE:HG13	24:d2:122:SER:HB2	1.88	0.55
36:5:1238:C:H2'	36:5:1239:C:H6	1.72	0.55
36:5:2921:U:H2'	36:5:2923:U:OP2	2.07	0.55
36:5:3287:U:N3	36:5:3288:G:N7	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3314:A:OP1	40:13:174:LYS:N	2.36	0.55
41:14:142:VAL:HB	41:14:145:ILE:HG21	1.89	0.55
47:m0:34:TYR:O	47:m0:88:ARG:HA	2.07	0.55
54:m8:30:VAL:O	54:m8:34:THR:HG23	2.06	0.55
61:n5:106:ASP:HB2	61:n5:130:TYR:HE1	1.71	0.55
66:o0:8:GLU:OE1	66:o0:13:LYS:NZ	2.37	0.55
1:2:132:U:H4'	1:2:133:U:H5'	1.87	0.55
1:2:653:C:H2'	1:2:654:C:O4'	2.07	0.55
1:2:927:C:O2'	16:C4:125:SER:HB2	2.06	0.55
1:2:1240:U:OP2	86:2:2116:OHX:N1	2.39	0.55
1:2:1650:U:H2'	1:2:1651:A:C8	2.41	0.55
2:S0:126:PRO:HB2	2:S0:152:PRO:HG2	1.89	0.55
4:S2:143:TYR:O	24:D2:98:GLN:NE2	2.36	0.55
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.40	0.55
36:1:770:G:O6	86:1:4096:OHX:N4	2.40	0.55
36:1:3165:A:H61	36:1:3285:C:H42	1.53	0.55
38:4:62:C:H4'	38:4:63:G:O5'	2.07	0.55
38:4:155:A:H4'	45:L8:185:ARG:HD3	1.88	0.55
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.35	0.55
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.06	0.55
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	1.88	0.55
61:N5:105:VAL:HG11	61:N5:135:ILE:HG13	1.88	0.55
72:O6:97:SER:C	72:O6:99:ARG:H	2.14	0.55
1:6:950:C:H2'	1:6:951:A:C8	2.42	0.55
36:5:1192:C:H5	86:5:4001:OHX:N2	2.05	0.55
36:5:3364:C:OP1	86:5:3858:OHX:N1	2.39	0.55
47:m0:169:LYS:NZ	57:n1:158:THR:O	2.40	0.55
48:m1:164:LYS:O	48:m1:168:ASP:HA	2.07	0.55
54:m8:94:PHE:CZ	64:n8:119:PRO:HD3	2.42	0.55
1:2:74:U:O2'	1:2:75:U:OP2	2.22	0.55
1:2:237:C:H4'	1:2:238:U:C6	2.42	0.55
1:2:478:A:OP1	32:E0:37:ARG:NH1	2.40	0.55
1:2:480:G:OP1	11:S9:120:LYS:NZ	2.33	0.55
1:2:732:G:H1'	1:2:734:A:H61	1.72	0.55
1:2:1538:U:O2'	1:2:1539:G:H8	1.89	0.55
1:2:1657:U:O4	86:2:2058:OHX:N6	2.40	0.55
2:S0:157:ASP:OD1	23:D1:60:ARG:NH2	2.40	0.55
3:S1:151:LYS:HE3	3:S1:154:SER:HA	1.89	0.55
11:S9:60:LEU:HD23	11:S9:93:LEU:HD11	1.88	0.55
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	1.87	0.55
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:409:A:H61	38:4:15:G:H1'	1.71	0.55
36:1:1114:U:H5''	64:N8:22:ILE:HD13	1.88	0.55
36:1:1244:A:N6	36:1:1271:A:OP2	2.40	0.55
36:1:1841:A:O2'	36:1:1842:A:H5''	2.06	0.55
36:1:1874:A:OP1	55:M9:17:VAL:HG12	2.07	0.55
36:1:2214:A:N1	36:1:2429:G:O2'	2.37	0.55
38:4:122:U:H2'	38:4:123:G:C8	2.42	0.55
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.41	0.55
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.88	0.55
41:L4:89:ALA:O	41:L4:91:GLY:N	2.36	0.55
43:L6:158:TYR:CE1	50:M4:115:PHE:HA	2.42	0.55
50:M4:21:VAL:HG12	50:M4:65:LEU:HA	1.89	0.55
63:N7:33:SER:HB2	63:N7:40:HIS:HE1	1.70	0.55
1:6:922:G:H2'	1:6:923:A:H8	1.72	0.55
1:6:927:C:OP1	86:6:2172:OHX:N3	2.40	0.55
1:6:1237:G:H2'	1:6:1238:A:H8	1.71	0.55
22:d0:30:LYS:HD2	22:d0:111:GLY:HA3	1.87	0.55
24:d2:36:LYS:O	24:d2:40:VAL:HG23	2.07	0.55
28:d6:45:VAL:O	28:d6:46:GLU:HG2	2.06	0.55
28:d6:58:VAL:HG22	28:d6:59:TYR:H	1.72	0.55
37:7:77:G:O5'	56:n0:50:LYS:HG2	2.07	0.55
51:m5:35:VAL:HG13	51:m5:65:ARG:HB3	1.89	0.55
74:o8:64:LYS:HG3	74:o8:65:LEU:N	2.22	0.55
1:2:505:A:H3'	1:2:506:A:H5''	1.88	0.55
1:2:979:A:N3	1:2:1775:U:O2'	2.39	0.55
1:2:1228:G:N2	14:C2:68:GLU:OE1	2.40	0.55
1:2:1323:C:H2'	1:2:1324:G:O4'	2.07	0.55
86:2:2003:OHX:N2	10:S8:17:LYS:O	2.40	0.55
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.40	0.55
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.07	0.55
21:C9:28:LEU:HD13	21:C9:29:GLU:H	1.72	0.55
36:1:2150:G:O2'	36:1:2189:U:OP1	2.22	0.55
36:1:2259:A:OP2	86:1:3830:OHX:N2	2.40	0.55
36:1:2314:U:O4	86:1:3777:OHX:N5	2.40	0.55
36:1:3054:U:H3	36:1:3088:G:H1	1.54	0.55
40:L3:230:THR:HB	40:L3:247:ARG:NH1	2.21	0.55
41:L4:131:VAL:HB	41:L4:134:LEU:HG	1.89	0.55
41:L4:334:PHE:HA	41:L4:339:LEU:HG	1.88	0.55
51:M5:102:ALA:O	51:M5:106:VAL:HG12	2.07	0.55
1:6:1067:C:H2'	1:6:1068:C:H6	1.72	0.55
1:6:1458:G:H5''	1:6:1459:C:OP2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:137:VAL:HG22	5:s3:151:LYS:HG3	1.88	0.55
36:5:1899:G:N7	86:5:3861:OHX:N6	2.55	0.55
36:5:3043:C:OP2	59:n3:48:ARG:NH2	2.40	0.55
43:l6:31:ARG:NH2	43:l6:81:ALA:O	2.39	0.55
45:l8:54:GLU:HG2	45:l8:57:ARG:NH1	2.22	0.55
60:n4:112:ASN:O	60:n4:116:LYS:N	2.36	0.55
1:2:539:G:OP2	1:2:539:G:H8	1.89	0.55
1:2:1685:G:H22	1:2:1716:C:H42	1.55	0.55
19:C7:37:GLU:HG3	34:SR:150:TRP:HE1	1.70	0.55
36:1:1343:A:H2'	36:1:1344:G:H8	1.72	0.55
36:1:1792:C:H2'	36:1:1795:U:C5	2.41	0.55
36:1:2278:C:OP1	86:1:3853:OHX:N3	2.40	0.55
42:L5:227:LEU:C	42:L5:229:ASP:H	2.13	0.55
59:N3:113:ALA:HA	59:N3:132:ASN:HB3	1.88	0.55
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.71	0.55
1:6:55:A:N6	1:6:403:G:H1'	2.21	0.55
1:6:1472:C:H5'	1:6:1474:G:O4'	2.06	0.55
2:s0:108:THR:OG1	2:s0:135:GLU:OE1	2.24	0.55
20:c8:88:ARG:NH1	20:c8:112:ASP:OD2	2.39	0.55
36:5:979:U:H1'	36:5:980:A:C4	2.42	0.55
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.40	0.55
40:l3:77:THR:HG23	40:l3:326:GLY:O	2.07	0.55
43:l6:109:GLU:OE1	43:l6:109:GLU:N	2.40	0.55
50:m4:24:LYS:HE3	50:m4:25:LYS:HE3	1.89	0.55
64:n8:47:LYS:HE2	64:n8:48:TYR:CE2	2.42	0.55
2:S0:124:THR:HG22	2:S0:174:TRP:NE1	2.21	0.54
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.88	0.54
10:S8:36:THR:OG1	10:S8:96:LEU:O	2.24	0.54
13:C1:39:GLY:C	13:C1:41:GLY:H	2.15	0.54
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.42	0.54
36:1:209:A:H4'	36:1:211:A:C8	2.42	0.54
36:1:2445:A:N6	36:1:2502:A:N1	2.55	0.54
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.37	0.54
49:M3:76:THR:HG22	49:M3:101:ARG:HB3	1.88	0.54
75:O9:8:ARG:O	75:O9:12:LYS:HG3	2.07	0.54
20:c8:120:ARG:HE	35:sM:61:ILE:HG21	1.72	0.54
36:5:528:U:H2'	36:5:529:A:C8	2.43	0.54
36:5:1101:G:H1'	44:l7:105:LEU:HD22	1.89	0.54
36:5:2557:A:OP1	39:l2:69:TYR:OH	2.20	0.54
36:5:3002:C:O2'	40:l3:180:GLU:OE2	2.22	0.54
36:5:3259:U:H5''	36:5:3261:C:H5	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:51:ASP:HB3	39:l2:54:ARG:HD2	1.88	0.54
70:o4:96:GLU:HA	70:o4:99:LYS:HD2	1.89	0.54
71:o5:45:LYS:O	71:o5:49:LYS:HG2	2.06	0.54
1:2:67:A:C2	1:2:69:G:H1'	2.42	0.54
1:2:900:A:OP1	16:C4:43:THR:OG1	2.20	0.54
1:2:1041:G:H2'	1:2:1042:G:C8	2.43	0.54
3:S1:81:PHE:HD2	3:S1:82:ARG:HG3	1.73	0.54
36:1:388:G:H4'	53:M7:18:ARG:O	2.07	0.54
36:1:501:A:H2'	36:1:502:U:C6	2.42	0.54
36:1:977:C:OP1	54:M8:141:ARG:NH2	2.40	0.54
36:1:1240:A:H3'	36:1:1241:U:H5'	1.89	0.54
36:1:1874:A:N7	55:M9:20:ARG:NH1	2.54	0.54
36:1:1913:A:N3	36:1:2120:A:H2'	2.22	0.54
36:1:2585:G:C8	45:L8:48:ARG:HG3	2.42	0.54
36:1:3152:U:O2	86:1:4044:OHX:N2	2.40	0.54
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.41	0.54
42:L5:216:GLU:O	42:L5:220:SER:OG	2.18	0.54
44:L7:179:LEU:HD22	44:L7:183:ASP:OD2	2.07	0.54
47:M0:33:ILE:HD11	47:M0:36:LEU:HG	1.88	0.54
50:M4:85:TRP:HE1	50:M4:91:CYS:HB2	1.72	0.54
61:N5:117:ASN:HB2	75:O9:18:LYS:HE2	1.88	0.54
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.38	0.54
1:6:816:G:OP1	86:6:2108:OHX:N3	2.41	0.54
1:6:1042:G:H22	1:6:1076:A:H2	1.50	0.54
1:6:1534:G:OP2	27:d5:74:SER:OG	2.13	0.54
1:6:1650:U:H2'	1:6:1651:A:C8	2.42	0.54
2:s0:173:ILE:O	2:s0:177:LEU:HB2	2.07	0.54
11:s9:8:TYR:O	86:s9:201:OHX:N4	2.40	0.54
36:5:583:G:OP1	86:5:3821:OHX:N1	2.39	0.54
36:5:799:G:O6	86:5:3943:OHX:N4	2.41	0.54
36:5:2904:U:H2'	36:5:2905:U:C6	2.42	0.54
38:8:52:A:N6	75:o9:27:ILE:HD13	2.21	0.54
41:l4:186:LYS:N	41:l4:200:THR:O	2.39	0.54
58:n2:56:VAL:HG22	58:n2:65:VAL:HG22	1.89	0.54
1:2:918:U:O2'	16:C4:18:ARG:NH1	2.41	0.54
1:2:1664:C:H42	1:2:1737:G:H1	1.56	0.54
16:C4:113:GLY:HA2	28:D6:59:TYR:HE2	1.72	0.54
17:C5:28:MET:O	17:C5:32:ASP:HB2	2.08	0.54
34:SR:197:SER:OG	34:SR:198:ASN:N	2.38	0.54
36:1:852:U:H2'	36:1:853:G:H8	1.71	0.54
36:1:873:C:H5''	36:1:874:U:O5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1445:U:H5''	36:1:1446:A:OP2	2.06	0.54
36:1:3166:C:H42	36:1:3284:G:H1	1.55	0.54
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.89	0.54
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.07	0.54
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.72	0.54
50:M4:120:VAL:HG22	52:M6:197:LEU:HD13	1.88	0.54
71:O5:68:GLN:C	71:O5:70:TYR:H	2.14	0.54
1:6:127:G:O6	8:s6:199:GLN:NE2	2.31	0.54
1:6:383:G:N7	86:6:2115:OHX:N5	2.54	0.54
1:6:874:C:OP1	86:s1:301:OHX:N1	2.39	0.54
1:6:1698:G:H1'	1:6:1699:G:OP1	2.08	0.54
9:s7:50:ASP:HB3	9:s7:56:LYS:HE2	1.88	0.54
18:c6:42:GLU:HG3	18:c6:43:ILE:HD13	1.88	0.54
30:d8:11:LYS:O	30:d8:31:GLU:N	2.40	0.54
36:5:94:G:H2'	36:5:95:A:C8	2.42	0.54
36:5:96:G:OP2	64:n8:34:MET:HB2	2.07	0.54
36:5:3019:U:O4	86:5:3900:OHX:N2	2.41	0.54
36:5:3041:U:H2'	36:5:3042:U:C6	2.42	0.54
38:8:125:U:O2'	38:8:126:A:H5'	2.08	0.54
42:l5:34:LYS:HA	57:n1:27:LEU:HD11	1.90	0.54
50:m4:40:ASP:O	50:m4:42:LYS:N	2.40	0.54
54:m8:37:ALA:O	54:m8:46:LYS:NZ	2.27	0.54
64:n8:47:LYS:HE2	64:n8:48:TYR:CZ	2.42	0.54
1:2:16:G:H2'	1:2:17:C:C6	2.43	0.54
1:2:149:C:OP1	26:D4:121:THR:OG1	2.26	0.54
1:2:176:C:OP1	86:2:2041:OHX:N3	2.40	0.54
1:2:393:C:OP2	10:S8:2:GLY:N	2.40	0.54
1:2:604:A:OP2	86:2:2079:OHX:N5	2.41	0.54
1:2:1553:G:N2	1:2:1555:A:H3'	2.23	0.54
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.35	0.54
11:S9:57:ARG:HG2	11:S9:97:LEU:HD21	1.90	0.54
16:C4:31:THR:HB	16:C4:38:THR:HA	1.88	0.54
17:C5:57:MET:HE1	17:C5:89:MET:HE3	1.88	0.54
34:SR:98:GLU:HG2	34:SR:100:TYR:CE2	2.43	0.54
36:1:955:U:H2'	36:1:956:U:C6	2.42	0.54
36:1:1307:G:H1'	36:1:1308:A:N7	2.21	0.54
36:1:1483:G:O6	70:O4:4:ARG:NH2	2.39	0.54
36:1:1598:G:OP1	70:O4:25:THR:OG1	2.19	0.54
36:1:1699:A:OP1	86:O4:202:OHX:N2	2.40	0.54
36:1:2178:A:H3'	39:L2:132:ASN:ND2	2.19	0.54
40:L3:147:GLU:HA	40:L3:150:ARG:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:264:SER:C	41:L4:266:THR:H	2.15	0.54
41:L4:337:GLU:HB2	41:L4:339:LEU:CD2	2.38	0.54
45:L8:162:LEU:HD23	51:M5:7:LEU:HD11	1.89	0.54
46:L9:67:ALA:O	46:L9:71:VAL:HG23	2.08	0.54
56:N0:28:ARG:HH11	56:N0:99:ARG:NE	2.04	0.54
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.41	0.54
1:6:127:G:H21	1:6:178:U:H1'	1.71	0.54
1:6:217:A:N6	1:6:845:G:O4'	2.40	0.54
6:s4:252:ARG:NH2	6:s4:252:ARG:HB3	2.22	0.54
11:s9:60:LEU:HD21	11:s9:93:LEU:HB3	1.89	0.54
18:c6:82:ARG:HH21	18:c6:116:LEU:HG	1.72	0.54
36:5:1024:G:N2	36:5:1026:A:OP2	2.39	0.54
36:5:3288:G:HO2'	36:5:3289:G:H8	1.54	0.54
49:m3:36:ARG:HG3	49:m3:39:ARG:NH2	2.23	0.54
49:m3:43:ALA:O	49:m3:137:GLN:NE2	2.39	0.54
52:m6:18:ARG:O	52:m6:22:VAL:HG12	2.08	0.54
58:n2:14:THR:HG23	58:n2:66:VAL:HG22	1.89	0.54
81:p0:93:LEU:HD13	81:p0:94:THR:HG23	1.89	0.54
82:p2:16:ASP:O	82:p2:18:GLU:N	2.41	0.54
1:2:882:U:H2'	1:2:883:C:C6	2.42	0.54
9:S7:44:LYS:HD2	9:S7:63:PRO:HA	1.89	0.54
17:C5:10:ARG:O	17:C5:12:PHE:N	2.40	0.54
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.90	0.54
36:1:1168:U:OP1	44:L7:213:GLY:N	2.40	0.54
36:1:2661:G:H1	36:1:2709:C:H42	1.56	0.54
36:1:3056:U:OP2	86:1:3833:OHX:N3	2.40	0.54
42:L5:166:ALA:HB1	42:L5:171:LEU:HD12	1.89	0.54
61:N5:115:ARG:NH1	61:N5:119:THR:OG1	2.40	0.54
1:6:472:U:H5''	11:s9:11:THR:HG23	1.88	0.54
6:s4:159:THR:OG1	6:s4:160:VAL:N	2.35	0.54
26:d4:60:PHE:HA	26:d4:70:VAL:O	2.07	0.54
34:sR:216:LYS:HA	34:sR:239:GLU:HG3	1.88	0.54
36:5:656:A:H2'	36:5:657:A:C8	2.43	0.54
36:5:1230:G:OP2	86:5:3922:OHX:N6	2.40	0.54
36:5:1597:C:H2'	36:5:1598:G:H8	1.73	0.54
36:5:2341:A:OP1	40:l3:247:ARG:NH2	2.40	0.54
36:5:2396:G:OP1	36:5:2397:A:H4'	2.07	0.54
41:l4:269:SER:C	41:l4:271:LYS:H	2.15	0.54
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.88	0.54
42:l5:270:LYS:HG3	42:l5:273:ARG:HB3	1.88	0.54
47:m0:35:ASP:OD1	47:m0:86:HIS:NE2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:45:ARG:HD3	59:n3:46:LEU:N	2.22	0.54
63:n7:9:LYS:HB3	63:n7:25:ILE:HD12	1.90	0.54
63:n7:121:ARG:HG3	63:n7:126:LYS:HB2	1.88	0.54
71:o5:47:VAL:O	71:o5:51:ILE:HG13	2.07	0.54
2:S0:101:ARG:HH22	2:S0:104:PRO:HG3	1.72	0.54
3:S1:97:LEU:HG	3:S1:232:HIS:CD2	2.43	0.54
10:S8:162:ALA:HA	36:1:3353:G:H5''	1.89	0.54
10:S8:196:LEU:O	10:S8:200:LYS:HG3	2.07	0.54
23:D1:79:LEU:HD13	23:D1:82:VAL:HG11	1.90	0.54
36:1:186:U:OP1	62:N6:122:LYS:NZ	2.38	0.54
36:1:1778:G:O2'	36:1:1780:G:OP2	2.24	0.54
36:1:2787:G:OP2	86:1:3847:OHX:N5	2.41	0.54
40:L3:194:TRP:O	40:L3:198:HIS:ND1	2.34	0.54
42:L5:286:VAL:O	42:L5:290:ILE:HG23	2.06	0.54
68:O2:63:THR:HA	68:O2:66:LEU:HD12	1.90	0.54
1:6:218:A:H61	1:6:829:A:H2	1.55	0.54
1:6:1159:C:N3	86:6:2104:OHX:N5	2.55	0.54
2:s0:146:LEU:HD21	2:s0:173:ILE:HG21	1.89	0.54
5:s3:32:GLU:OE1	5:s3:32:GLU:N	2.41	0.54
6:s4:88:ASP:HB2	6:s4:101:LEU:HD12	1.88	0.54
9:s7:46:ILE:HG12	9:s7:60:ILE:HA	1.89	0.54
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.89	0.54
34:sR:25:THR:HG21	34:sR:295:SER:HA	1.88	0.54
36:5:92:G:H5''	36:5:94:G:N7	2.23	0.54
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.40	0.54
36:5:847:A:H2'	36:5:848:A:C8	2.43	0.54
36:5:2854:U:H4'	47:m0:160:PRO:HD3	1.90	0.54
36:5:3173:G:O6	69:o3:92:LYS:HG2	2.07	0.54
36:5:3376:A:H2	67:o1:17:HIS:HD2	1.54	0.54
42:l5:59:ASP:OD2	42:l5:60:ILE:N	2.37	0.54
47:m0:47:PRO:O	47:m0:178:ARG:NH1	2.39	0.54
53:m7:105:LYS:HD3	53:m7:107:LEU:HD11	1.90	0.54
55:m9:96:ILE:HG22	55:m9:100:ARG:HD2	1.89	0.54
67:o1:13:THR:HG22	67:o1:72:ARG:HH21	1.73	0.54
81:p0:56:ASN:HB3	81:p0:60:ARG:HH22	1.71	0.54
1:2:17:C:H2'	1:2:18:C:C6	2.43	0.54
1:2:811:A:C2	1:2:858:G:H1'	2.43	0.54
1:2:1798:U:C6	28:D6:97:PRO:HB3	2.43	0.54
18:C6:13:LYS:O	18:C6:76:SER:OG	2.26	0.54
20:C8:91:ASP:N	20:C8:96:LYS:O	2.41	0.54
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:135:C:O2	71:O5:94:LYS:N	2.35	0.54
36:1:1603:A:H61	61:N5:71:THR:HG21	1.72	0.54
36:1:1748:G:OP2	74:O8:42:LYS:NZ	2.40	0.54
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.41	0.54
47:M0:77:THR:O	47:M0:79:VAL:N	2.40	0.54
77:Q1:13:LEU:HD13	77:Q1:17:ARG:HH22	1.72	0.54
1:6:73:U:H2'	1:6:74:U:C6	2.42	0.54
1:6:339:C:P	10:s8:10:LYS:HE3	2.47	0.54
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.32	0.54
8:s6:39:GLU:HG3	8:s6:46:LYS:HE2	1.89	0.54
11:s9:153:GLU:HA	11:s9:156:ILE:HD11	1.88	0.54
14:c2:54:ARG:HD3	14:c2:56:GLU:CD	2.33	0.54
28:d6:87:ARG:HB3	28:d6:91:ASP:HB3	1.89	0.54
36:5:76:G:H3'	49:m3:73:ARG:HD2	1.90	0.54
36:5:123:A:C6	36:5:150:A:C5	2.96	0.54
36:5:595:G:N1	36:5:609:G:H5''	2.23	0.54
37:7:3:U:H2'	37:7:4:U:C6	2.42	0.54
46:l9:91:ARG:HD2	46:l9:143:GLU:HA	1.90	0.54
47:m0:36:LEU:CD1	47:m0:87:LEU:HB3	2.36	0.54
47:m0:48:LEU:O	47:m0:139:ARG:HA	2.07	0.54
1:2:93:A:H1'	6:S4:3:ARG:HB3	1.89	0.54
1:2:400:A:H4'	1:2:401:A:H5'	1.88	0.54
1:2:1151:A:H4'	1:2:1766:A:N7	2.23	0.54
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.08	0.54
28:D6:75:VAL:O	28:D6:79:ILE:HG13	2.08	0.54
33:E1:106:TYR:HD2	33:E1:116:LYS:HA	1.73	0.54
36:1:115:A:OP1	51:M5:49:ARG:NE	2.40	0.54
36:1:742:G:N7	86:1:3870:OHX:N1	2.56	0.54
36:1:1898:G:OP2	86:1:3828:OHX:N2	2.40	0.54
36:1:3182:G:O3'	52:M6:161:LYS:NZ	2.40	0.54
86:1:4082:OHX:N2	40:L3:364:LYS:O	2.40	0.54
1:6:365:G:O6	86:6:2101:OHX:N4	2.41	0.54
1:6:428:A:N3	1:6:440:U:O2'	2.37	0.54
1:6:902:G:H1	16:c4:51:ASP:CG	2.16	0.54
1:6:1087:A:H2'	1:6:1088:A:H8	1.68	0.54
1:6:1237:G:H1	1:6:1248:C:N4	2.05	0.54
3:s1:34:ALA:HB3	3:s1:41:ARG:HA	1.88	0.54
5:s3:34:TYR:CE2	5:s3:37:VAL:HG13	2.42	0.54
5:s3:210:GLU:OE1	19:c7:19:ARG:NH1	2.40	0.54
12:c0:8:ARG:O	12:c0:12:HIS:ND1	2.41	0.54
36:5:1897:G:H1	36:5:2338:C:H42	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3127:A:OP2	86:5:4117:OHX:N1	2.40	0.54
46:19:25:VAL:HB	46:19:78:MET:HE1	1.90	0.54
51:m5:160:GLU:OE1	51:m5:160:GLU:N	2.41	0.54
1:2:523:G:H5''	26:D4:59:GLY:O	2.08	0.54
1:2:819:G:O6	1:2:853:G:N1	2.40	0.54
1:2:1006:C:O2	86:2:2117:OHX:N2	2.41	0.54
3:S1:36:SER:HB3	3:S1:231:LEU:HB3	1.90	0.54
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.39	0.54
30:D8:19:THR:HG21	30:D8:65:ARG:HA	1.90	0.54
40:L3:221:THR:HB	40:L3:273:HIS:H	1.71	0.54
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.43	0.54
78:Q2:14:GLY:C	78:Q2:16:THR:H	2.15	0.54
1:6:570:A:N6	25:d3:116:ASP:OD2	2.33	0.54
2:s0:59:LEU:HD12	23:d1:79:LEU:HD21	1.88	0.54
10:s8:67:TRP:CD1	10:s8:183:ILE:HD11	2.43	0.54
25:d3:69:ARG:NH1	25:d3:116:ASP:OD1	2.40	0.54
36:5:107:A:H2'	36:5:108:A:O4'	2.08	0.54
36:5:229:G:H5''	62:n6:4:GLN:HB2	1.90	0.54
36:5:1019:G:H2'	36:5:1020:G:C8	2.43	0.54
36:5:1189:C:N4	52:m6:133:ARG:HE	2.06	0.54
36:5:1577:G:N2	36:5:1578:C:N3	2.56	0.54
36:5:1666:G:H2'	36:5:1667:A:C8	2.42	0.54
36:5:3245:A:H2	36:5:3246:G:C2	2.26	0.54
49:m3:140:SER:OG	49:m3:143:ALA:N	2.37	0.54
78:q2:16:THR:C	78:q2:18:ARG:H	2.15	0.54
81:p0:25:LEU:HB3	81:p0:191:TYR:HB3	1.90	0.54
1:2:264:G:N7	86:2:2001:OHX:N3	2.56	0.54
1:2:894:U:H2'	1:2:895:G:C8	2.42	0.54
2:S0:193:GLN:O	2:S0:195:TRP:N	2.42	0.54
4:S2:47:ALA:O	4:S2:49:LYS:N	2.41	0.54
7:S5:59:VAL:C	7:S5:61:TYR:H	2.16	0.54
28:D6:79:ILE:HG23	28:D6:84:VAL:HG21	1.90	0.54
36:1:651:G:O2'	36:1:1435:A:OP1	2.24	0.54
36:1:1184:A:OP2	86:1:3957:OHX:N3	2.41	0.54
36:1:2378:C:H2'	36:1:2379:U:C6	2.41	0.54
36:1:3344:A:H2	36:1:3361:G:H21	1.54	0.54
46:L9:116:ASN:OD1	46:L9:119:GLY:HA2	2.08	0.54
47:M0:169:LYS:NZ	57:N1:159:PHE:H	2.06	0.54
52:M6:14:HIS:NE2	52:M6:124:LEU:HD13	2.23	0.54
63:N7:44:ALA:HB1	63:N7:114:VAL:HG11	1.89	0.54
12:c0:32:HIS:CD2	12:c0:33:GLU:HG2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:107:LYS:O	15:c3:109:LYS:N	2.41	0.54
23:d1:5:LYS:O	23:d1:7:GLN:N	2.40	0.54
34:sR:126:SER:OG	34:sR:127:ARG:N	2.40	0.54
36:5:1235:U:H4'	36:5:1236:G:H5'	1.89	0.54
37:7:7:G:O3'	42:l5:33:ARG:NH2	2.41	0.54
62:n6:5:SER:C	62:n6:7:ASP:H	2.15	0.54
1:2:346:G:H5'	13:C1:79:LYS:HG3	1.89	0.53
1:2:609:U:N3	25:D3:22:ASN:O	2.31	0.53
1:2:927:C:H2'	1:2:928:U:C6	2.42	0.53
6:S4:106:LYS:HG3	6:S4:108:ARG:NH1	2.23	0.53
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.42	0.53
14:C2:126:TRP:O	14:C2:128:ALA:N	2.35	0.53
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.72	0.53
36:1:425:G:O6	86:1:3771:OHX:N6	2.40	0.53
36:1:2653:C:P	78:Q2:89:LYS:HG3	2.48	0.53
36:1:2707:C:H2'	36:1:2708:C:C6	2.43	0.53
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.21	0.53
50:M4:40:ASP:OD1	50:M4:42:LYS:N	2.36	0.53
70:O4:106:LYS:HD3	70:O4:109:THR:HB	1.90	0.53
1:6:298:C:H5''	6:s4:38:LEU:HB2	1.90	0.53
1:6:720:G:O3'	1:6:721:U:H3'	2.07	0.53
1:6:1065:A:N3	3:s1:146:GLN:NE2	2.56	0.53
6:s4:247:SER:O	6:s4:251:GLU:HG3	2.09	0.53
8:s6:84:TYR:OH	8:s6:91:GLU:O	2.18	0.53
16:c4:114:ARG:HA	28:d6:62:TYR:OH	2.08	0.53
26:d4:45:ALA:HB2	26:d4:55:VAL:HG11	1.90	0.53
36:5:677:A:H4'	36:5:678:G:O5'	2.08	0.53
41:l4:187:LEU:HD23	41:l4:198:ARG:O	2.07	0.53
46:l9:90:MET:HA	46:l9:182:SER:H	1.73	0.53
81:p0:61:ARG:O	81:p0:65:GLY:N	2.39	0.53
1:2:924:A:O2'	1:2:987:G:OP1	2.25	0.53
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.90	0.53
36:1:562:C:H2'	36:1:563:U:H6	1.72	0.53
36:1:562:C:H2'	36:1:563:U:C6	2.44	0.53
36:1:568:G:H2'	36:1:569:A:O4'	2.08	0.53
36:1:655:C:H2'	36:1:656:A:C8	2.43	0.53
36:1:656:A:H2'	36:1:657:A:C8	2.42	0.53
36:1:1144:U:H1'	36:1:1145:G:C8	2.44	0.53
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.23	0.53
36:1:3043:C:OP2	59:N3:48:ARG:NH2	2.39	0.53
42:L5:233:ALA:O	42:L5:236:LEU:N	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:33:ARG:O	44:L7:36:ALA:N	2.41	0.53
47:M0:4:ARG:HG2	47:M0:5:PRO:HD2	1.89	0.53
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.39	0.53
49:M3:174:ARG:NH1	72:O6:9:ILE:HG21	2.23	0.53
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.43	0.53
57:N1:26:HIS:ND1	57:N1:26:HIS:O	2.41	0.53
1:6:827:C:H2'	1:6:828:U:H6	1.73	0.53
7:s5:184:PHE:C	7:s5:186:ASN:H	2.17	0.53
11:s9:179:ARG:HA	11:s9:182:GLU:HG3	1.89	0.53
26:d4:20:ARG:HD2	26:d4:74:LEU:HD22	1.89	0.53
27:d5:75:LEU:HA	27:d5:78:ILE:HG22	1.91	0.53
34:sR:80:ALA:HB3	34:sR:92:TRP:HB2	1.90	0.53
36:5:712:G:H2'	36:5:713:U:C6	2.42	0.53
36:5:996:A:H2'	36:5:997:A:O4'	2.09	0.53
36:5:1270:A:H2'	36:5:1271:A:C8	2.43	0.53
36:5:3047:U:H5'	40:l3:329:PRO:HA	1.89	0.53
36:5:3164:C:H1'	36:5:3165:A:H5'	1.89	0.53
37:7:23:A:H2'	37:7:24:A:C8	2.44	0.53
37:7:67:G:H5'	42:l5:10:SER:HG	1.73	0.53
48:m1:75:LYS:O	48:m1:79:ILE:HG13	2.08	0.53
64:n8:45:MET:HE2	64:n8:45:MET:HA	1.88	0.53
1:2:542:A:N1	32:E0:28:LYS:HD2	2.23	0.53
5:S3:209:ILE:O	19:C7:20:TYR:OH	2.23	0.53
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.90	0.53
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.23	0.53
28:D6:53:LEU:HD11	28:D6:62:TYR:HD2	1.72	0.53
36:1:1596:C:H2'	36:1:1597:C:C6	2.43	0.53
36:1:2261:G:H21	36:1:2262:A:H61	1.55	0.53
36:1:3151:U:H4'	36:1:3294:A:H1'	1.89	0.53
37:3:49:G:N7	42:L5:58:LYS:HG3	2.24	0.53
40:L3:45:SER:HB3	40:L3:339:ARG:HA	1.89	0.53
40:L3:214:MET:HE2	40:L3:350:ALA:HB2	1.89	0.53
75:O9:21:ARG:NH1	75:O9:24:PRO:HG3	2.23	0.53
1:6:121:U:O2'	6:s4:33:ALA:O	2.25	0.53
1:6:1645:G:H1	1:6:1756[A]:A:N6	2.07	0.53
1:6:1695:G:H21	1:6:1705:C:H41	1.56	0.53
1:6:1699:G:N2	1:6:1702:A:O4'	2.40	0.53
3:s1:58:SER:O	3:s1:62:LYS:HB2	2.07	0.53
5:s3:48:VAL:HB	5:s3:86:LEU:HD12	1.88	0.53
8:s6:98:ARG:HD3	8:s6:99:GLY:N	2.23	0.53
10:s8:36:THR:HG22	10:s8:57:ALA:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:70:GLU:HB3	10:s8:112:TRP:CH2	2.44	0.53
15:c3:91:LEU:HD12	15:c3:125:LEU:HD12	1.90	0.53
18:c6:86:ALA:HB1	18:c6:109:PHE:CE2	2.44	0.53
36:5:209:A:OP1	41:l4:161:LYS:NZ	2.42	0.53
36:5:956:U:H2'	36:5:957:C:C6	2.43	0.53
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.57	0.53
36:5:2659:G:O6	86:5:3825:OHX:N6	2.41	0.53
36:5:3047:U:O2'	40:l3:53:MET:HE1	2.07	0.53
36:5:3060:C:H1'	36:5:3332:U:H1'	1.90	0.53
38:8:82:U:O5'	86:8:229:OHX:N5	2.41	0.53
42:l5:61:ILE:HD13	42:l5:79:TYR:CE1	2.43	0.53
42:l5:178:ASN:HA	42:l5:183:TRP:CD1	2.42	0.53
52:m6:8:VAL:HG12	52:m6:117:ARG:HB3	1.91	0.53
56:n0:13:ARG:NH2	56:n0:51:VAL:HG22	2.23	0.53
63:n7:46:ILE:HD11	63:n7:49:TYR:CG	2.43	0.53
1:2:7:G:N7	4:S2:205:ARG:NH1	2.56	0.53
1:2:1464:G:O3'	18:C6:141:SER:OG	2.22	0.53
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.09	0.53
11:S9:8:TYR:O	86:S9:201:OHX:N5	2.42	0.53
13:C1:75:VAL:HG22	13:C1:86:ILE:HG22	1.88	0.53
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.91	0.53
36:1:802:C:H2'	36:1:803:C:H6	1.74	0.53
38:4:69:U:OP2	86:O7:104:OHX:N3	2.42	0.53
41:L4:264:SER:O	41:L4:267:VAL:N	2.29	0.53
44:L7:156:ILE:HD12	44:L7:161:VAL:HG21	1.89	0.53
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.44	0.53
61:N5:67:ILE:HD12	61:N5:83:VAL:HG12	1.90	0.53
68:O2:96:ILE:HG21	68:O2:105:ARG:HG2	1.90	0.53
1:6:867:G:N7	86:6:2023:OHX:N1	2.56	0.53
4:s2:229:LEU:HD23	23:d1:23:ILE:HD11	1.90	0.53
18:c6:60:PHE:CD2	18:c6:63:ILE:HD11	2.43	0.53
34:sR:19:TRP:HB2	34:sR:38:ARG:HD2	1.90	0.53
36:5:825:U:O4	86:5:3879:OHX:N2	2.42	0.53
36:5:1260:A:O2'	36:5:1279:C:O2	2.26	0.53
36:5:1564:U:H2'	36:5:1565:G:C8	2.43	0.53
36:5:1715:A:C5	66:o0:84:LEU:HD13	2.43	0.53
36:5:1758:G:P	58:n2:104:ARG:HH22	2.31	0.53
36:5:2746:A:C6	42:l5:148:ILE:HG12	2.43	0.53
38:8:83:C:H4'	38:8:85:G:N3	2.23	0.53
61:n5:132:ALA:O	61:n5:136:ALA:N	2.42	0.53
81:p0:77:LEU:C	81:p0:79:PHE:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:f:55:ALA:HB3	83:f:76:SER:OG	2.08	0.53
83:f:90:TYR:CD2	83:f:138:ILE:HD11	2.44	0.53
1:2:6:G:H2'	1:2:7:G:H8	1.72	0.53
1:2:1233:G:OP1	86:2:2127:OHX:N3	2.40	0.53
7:S5:57:SER:C	7:S5:59:VAL:H	2.15	0.53
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.89	0.53
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.89	0.53
40:L3:94:GLU:HG3	40:L3:156:SER:OG	2.08	0.53
41:L4:265:GLU:N	41:L4:265:GLU:OE2	2.42	0.53
44:L7:83:LEU:HD23	44:L7:191:VAL:HG22	1.90	0.53
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.09	0.53
1:6:595:G:OP2	86:6:2069:OHX:N6	2.41	0.53
1:6:1078:C:OP2	86:6:2183:OHX:N5	2.41	0.53
2:s0:88:LYS:HE2	2:s0:201:LEU:HG	1.91	0.53
36:5:856:G:C6	36:5:857:G:N1	2.77	0.53
36:5:2211:U:O4	86:5:3878:OHX:N4	2.41	0.53
36:5:3186:A:N3	46:l9:44:THR:HG22	2.23	0.53
37:7:3:U:H2'	37:7:4:U:H6	1.72	0.53
38:8:45:C:O3'	75:o9:11:GLN:NE2	2.41	0.53
38:8:157:U:H3'	38:8:158:U:H3'	1.90	0.53
39:l2:172:GLY:HA3	79:q3:68:ALA:H	1.73	0.53
40:l3:10:ARG:NH2	40:l3:14:LEU:HD21	2.22	0.53
51:m5:52:GLY:O	51:m5:148:TYR:OH	2.21	0.53
53:m7:27:LYS:HD3	53:m7:63:PHE:HB3	1.91	0.53
55:m9:28:GLU:HG3	55:m9:49:THR:HG22	1.90	0.53
1:2:231:U:H3	1:2:234:G:H1	1.54	0.53
1:2:1368:G:O6	86:2:2064:OHX:N5	2.41	0.53
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.42	0.53
5:S3:11:LEU:HD12	22:D0:86:ILE:HG12	1.90	0.53
34:SR:211:ILE:HD11	34:SR:225:LEU:HD13	1.91	0.53
36:1:543:C:H5''	36:1:544:C:C5	2.44	0.53
36:1:1139:G:OP1	44:L7:97:PRO:HG3	2.09	0.53
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.09	0.53
37:3:14:U:H5'	42:L5:24:ARG:HH11	1.73	0.53
41:L4:30:ILE:N	54:M8:25:TYR:OH	2.38	0.53
42:L5:61:ILE:HG12	42:L5:79:TYR:HD1	1.74	0.53
47:M0:169:LYS:HZ2	57:N1:159:PHE:H	1.56	0.53
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.44	0.53
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	1.89	0.53
1:6:108:A:OP2	86:6:2057:OHX:N4	2.41	0.53
1:6:149:C:OP1	26:d4:121:THR:OG1	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:292:U:H2'	1:6:293:U:C6	2.44	0.53
1:6:1173:C:H2'	1:6:1174:C:H6	1.73	0.53
8:s6:50:PHE:HB3	8:s6:111:LEU:HB3	1.89	0.53
18:c6:99:GLU:OE1	18:c6:103:ASN:ND2	2.38	0.53
36:5:821:U:OP2	86:5:3957:OHX:N6	2.42	0.53
41:l4:44:LYS:HB3	41:l4:47:ARG:NH1	2.24	0.53
42:l5:64:ILE:HD12	42:l5:144:VAL:HG21	1.90	0.53
45:l8:221:ASN:HA	45:l8:225:LYS:HE3	1.89	0.53
47:m0:212:GLU:HB3	47:m0:213:PHE:HD1	1.74	0.53
53:m7:30:ARG:HA	53:m7:119:VAL:HG11	1.91	0.53
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.09	0.53
79:q3:8:VAL:HG23	79:q3:9:GLY:H	1.74	0.53
1:2:637:C:O2	9:S7:114:ARG:NH2	2.30	0.53
1:2:1235:C:O2	33:E1:138:ARG:NE	2.36	0.53
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.44	0.53
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.34	0.53
6:S4:185:GLY:N	6:S4:189:LEU:HD13	2.24	0.53
23:D1:77:GLY:O	23:D1:79:LEU:N	2.37	0.53
36:1:598:A:OP1	44:L7:41:ARG:NH1	2.42	0.53
36:1:2206:G:H8	36:1:2206:G:OP2	1.91	0.53
36:1:2960:C:H2'	36:1:2961:G:H8	1.72	0.53
40:L3:83:PRO:O	40:L3:165:GLN:NE2	2.42	0.53
47:M0:85:PHE:HA	47:M0:140:THR:HG22	1.91	0.53
48:M1:15:GLU:HB2	48:M1:132:ASN:OD1	2.09	0.53
75:O9:44:TRP:CH2	75:O9:45:ARG:HG3	2.44	0.53
1:6:338:C:H5''	10:s8:10:LYS:HD3	1.89	0.53
3:s1:179:SER:HB3	3:s1:183:GLN:HB2	1.90	0.53
24:d2:67:GLY:O	24:d2:69:LEU:N	2.40	0.53
36:5:1103:A:H4'	44:l7:158:LYS:HG3	1.90	0.53
36:5:2794:G:N7	86:5:3904:OHX:N1	2.56	0.53
48:m1:94:ARG:C	48:m1:96:PHE:H	2.16	0.53
64:n8:46:ASP:OD1	64:n8:46:ASP:N	2.42	0.53
2:S0:29:VAL:HG22	2:S0:150:ASP:HB3	1.90	0.53
4:S2:35:TRP:CE2	4:S2:37:PRO:HB3	2.44	0.53
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	1.91	0.53
11:S9:168:ARG:HG2	11:S9:170:GLY:N	2.24	0.53
24:D2:111:MET:HG3	24:D2:116:ALA:HB2	1.90	0.53
36:1:744:A:N3	54:M8:141:ARG:NH1	2.56	0.53
36:1:844:G:N7	86:1:3819:OHX:N5	2.57	0.53
45:L8:75:ILE:O	45:L8:77:GLN:N	2.41	0.53
63:N7:54:THR:O	63:N7:57:HIS:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:7:HIS:CG	65:N9:8:THR:N	2.76	0.53
76:Q0:83:LYS:NZ	76:Q0:83:LYS:HB3	2.24	0.53
1:6:871:G:H2'	1:6:872:G:C8	2.44	0.53
1:6:1544:U:OP1	20:c8:136:GLN:NE2	2.41	0.53
1:6:1564:U:H2'	1:6:1565:C:C6	2.43	0.53
7:s5:110:ALA:HA	7:s5:113:ILE:HB	1.89	0.53
11:s9:154:LYS:HG3	11:s9:155:HIS:CD2	2.44	0.53
36:5:109:A:N1	36:5:322:U:O2'	2.40	0.53
36:5:3194:C:H2'	36:5:3195:U:H3'	1.91	0.53
46:l9:109:ALA:O	46:l9:110:LYS:HB2	2.08	0.53
46:l9:126:VAL:HG21	46:l9:161:LEU:HA	1.90	0.53
75:o9:3:ALA:O	75:o9:5:LYS:HE2	2.09	0.53
1:2:134:U:OP1	1:2:136:C:N4	2.42	0.53
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.39	0.53
32:E0:44:PHE:HE1	32:E0:54:ARG:HH22	1.55	0.53
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.44	0.53
36:1:2767:U:OP1	86:1:4032:OHX:N2	2.41	0.53
38:4:71:A:O2'	62:N6:52:ARG:NH2	2.41	0.53
39:L2:145:LYS:O	39:L2:160:SER:OG	2.27	0.53
41:L4:106:TRP:HB2	51:M5:199:LEU:HD12	1.90	0.53
45:L8:78:PHE:O	45:L8:80:TYR:N	2.41	0.53
45:L8:112:GLU:HA	45:L8:115:ALA:HB3	1.89	0.53
53:M7:36:ILE:HG12	53:M7:44:ALA:HB1	1.90	0.53
56:N0:81:TYR:CE1	56:N0:90:MET:HE3	2.44	0.53
1:6:567:A:H1'	32:e0:14:VAL:HG23	1.91	0.53
4:s2:49:LYS:HE3	4:s2:246:GLU:OE1	2.09	0.53
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.91	0.53
6:s4:141:THR:OG1	6:s4:145:ARG:HB2	2.08	0.53
9:s7:97:ARG:HA	9:s7:97:ARG:HH11	1.74	0.53
25:d3:23:ARG:HB3	25:d3:29:TYR:CE1	2.44	0.53
29:d7:41:LEU:HD23	29:d7:41:LEU:H	1.72	0.53
36:5:1340:G:H1	36:5:1364:C:H42	1.57	0.53
36:5:1657:C:OP2	86:5:4093:OHX:N2	2.41	0.53
36:5:1725:C:H2'	36:5:1726:C:H6	1.74	0.53
36:5:3178:A:H5''	36:5:3179:U:OP1	2.09	0.53
48:m1:94:ARG:O	48:m1:96:PHE:N	2.42	0.53
70:o4:96:GLU:O	70:o4:99:LYS:HB2	2.08	0.53
76:q0:97:ARG:HB2	76:q0:120:GLN:O	2.09	0.53
81:p0:102:SER:OG	81:p0:103:ASN:N	2.42	0.53
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.91	0.53
10:S8:11:ARG:O	13:C1:133:LYS:NZ	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:28:SER:OG	22:D0:29:THR:N	2.39	0.53
33:E1:126:CYS:O	33:E1:128:ALA:N	2.36	0.53
36:1:75:G:H5'	49:M3:58:VAL:HG13	1.90	0.53
36:1:804:C:OP1	41:L4:98:ARG:NH2	2.42	0.53
36:1:915:A:C5	36:1:917:A:H1'	2.44	0.53
36:1:2424:A:H2'	36:1:2425:G:O4'	2.08	0.53
36:1:2573:G:O6	86:1:3894:OHX:N3	2.42	0.53
41:L4:59:GLN:NE2	73:O7:55:ARG:HH22	2.07	0.53
46:L9:1:MET:HE2	46:L9:3:TYR:CD1	2.43	0.53
66:O0:30:THR:HG22	66:O0:91:SER:HB2	1.91	0.53
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.09	0.53
1:6:151:G:H1	1:6:163:G:H1	1.56	0.53
1:6:1360:A:H3'	1:6:1361:U:H4'	1.90	0.53
3:s1:90:GLU:OE1	3:s1:91:VAL:N	2.37	0.53
5:s3:68:GLU:HG2	12:c0:89:ALA:HB1	1.91	0.53
10:s8:36:THR:OG1	10:s8:96:LEU:O	2.27	0.53
19:c7:23:LYS:HG2	34:sR:198:ASN:HD21	1.73	0.53
25:d3:107:PHE:CE1	25:d3:114:LYS:HD2	2.43	0.53
36:5:58:G:OP1	51:m5:157:LYS:NZ	2.27	0.53
36:5:1556:C:O5'	36:5:2169:G:N2	2.41	0.53
36:5:3066:U:O4	86:5:4014:OHX:N3	2.42	0.53
41:l4:118:LYS:O	41:l4:121:ALA:HB3	2.08	0.53
41:l4:144:LYS:H	41:l4:144:LYS:CD	2.22	0.53
42:l5:36:LEU:HD13	42:l5:50:ARG:HD2	1.90	0.53
59:n3:87:ARG:HH12	59:n3:137:VAL:HG11	1.74	0.53
81:p0:16:ARG:NH1	81:p0:20:GLU:OE2	2.42	0.53
83:f:138:ILE:HG22	83:f:147:ALA:HA	1.91	0.53
1:2:868:G:C2	1:2:869:A:C8	2.97	0.52
4:S2:225:LEU:HG	23:D1:23:ILE:HG13	1.91	0.52
16:C4:125:SER:OG	16:C4:126:THR:N	2.42	0.52
25:D3:62:LYS:HD2	25:D3:118:PRO:HB3	1.90	0.52
34:SR:14:GLU:HB3	34:SR:309:VAL:HG22	1.92	0.52
36:1:1942:U:HO2'	36:1:3345:G:HO2'	1.57	0.52
36:1:3000:A:H2'	36:1:3001:C:C6	2.44	0.52
36:1:3055:U:H1'	36:1:3057:U:OP2	2.09	0.52
46:L9:50:ASN:HD21	50:M4:4:ASP:HB3	1.74	0.52
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.09	0.52
65:N9:23:LYS:CG	65:N9:24:PRO:HD3	2.39	0.52
79:Q3:47:VAL:HA	79:Q3:57:CYS:HA	1.91	0.52
1:6:93:A:C6	1:6:398:G:C6	2.98	0.52
1:6:218:A:H2'	1:6:219:A:H5''	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c7:41:ILE:HD13	19:c7:50:ILE:HD12	1.90	0.52
20:c8:24:GLY:HA2	20:c8:58:ALA:HB3	1.91	0.52
22:d0:103:ILE:HA	22:d0:106:ILE:HG22	1.90	0.52
27:d5:91:PRO:HB3	27:d5:101:TYR:CE1	2.44	0.52
30:d8:31:GLU:O	30:d8:33:LEU:N	2.41	0.52
36:5:744:A:H4'	54:m8:142:GLY:O	2.08	0.52
36:5:980:A:H2'	36:5:981:U:H1'	1.91	0.52
36:5:1258:U:O5'	81:p0:42:ARG:NH2	2.42	0.52
36:5:2309:A:N3	36:5:2961:G:O2'	2.42	0.52
36:5:3261:C:OP1	50:m4:126:GLN:NE2	2.42	0.52
37:7:113:C:H2'	37:7:114:U:O4'	2.09	0.52
40:l3:84:VAL:HG23	40:l3:163:HIS:O	2.09	0.52
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.09	0.52
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.42	0.52
57:n1:157:GLU:CD	57:n1:159:PHE:HE1	2.17	0.52
64:n8:22:ILE:H	64:n8:22:ILE:HD12	1.74	0.52
81:p0:25:LEU:HD13	81:p0:88:PHE:CE2	2.45	0.52
1:2:487:G:H3'	1:2:488:G:H5''	1.91	0.52
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.92	0.52
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.44	0.52
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.43	0.52
22:D0:60:THR:HG1	22:D0:87:HIS:CE1	2.22	0.52
36:1:113:C:OP1	51:M5:147:ARG:NE	2.37	0.52
36:1:2652:U:O2	86:1:4083:OHX:N3	2.42	0.52
36:1:3107:U:O4	36:1:3128:G:N2	2.42	0.52
36:1:3341:U:O2'	36:1:3342:A:H5'	2.09	0.52
40:L3:44:THR:OG1	40:L3:182:GLN:O	2.28	0.52
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.74	0.52
45:L8:156:ASP:HB2	45:L8:183:LYS:HD3	1.91	0.52
59:N3:79:VAL:HG22	59:N3:100:GLY:HA2	1.90	0.52
62:N6:56:VAL:HG22	62:N6:105:VAL:O	2.09	0.52
70:O4:82:ALA:O	70:O4:85:VAL:N	2.43	0.52
1:6:771:A:OP1	11:s9:9:SER:OG	2.28	0.52
1:6:1333:C:O4'	5:s3:162:GLN:HG3	2.08	0.52
2:s0:167:LYS:HE3	2:s0:168:HIS:HD2	1.74	0.52
4:s2:143:TYR:O	24:d2:98:GLN:NE2	2.43	0.52
15:c3:66:ILE:HG13	15:c3:67:THR:HG22	1.91	0.52
20:c8:86:LEU:HA	20:c8:99:HIS:ND1	2.23	0.52
36:5:1141:C:O2'	36:5:1153:A:N3	2.41	0.52
60:n4:50:ALA:HA	60:n4:55:PHE:CG	2.44	0.52
67:o1:30:PRO:HG3	67:o1:60:TRP:CZ2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:180:A:H2'	1:2:181:A:O4'	2.08	0.52
1:2:523:G:O6	86:2:2020:OHX:N3	2.43	0.52
1:2:1307:U:O4	1:2:1319:A:H1'	2.10	0.52
12:C0:7:ASP:O	12:C0:11:ILE:HG12	2.09	0.52
26:D4:60:PHE:HA	26:D4:70:VAL:O	2.08	0.52
34:SR:221:MET:HG2	34:SR:233:THR:HG23	1.90	0.52
36:1:434:U:O4	86:1:4061:OHX:N5	2.43	0.52
36:1:655:C:H2'	36:1:656:A:H8	1.75	0.52
36:1:1276:U:OP1	86:1:3979:OHX:N4	2.42	0.52
36:1:2112:U:H4'	36:1:2113:A:H5'	1.92	0.52
36:1:2771:U:H2'	36:1:2772:C:C2	2.44	0.52
40:L3:139:GLN:HG3	40:L3:141:GLY:H	1.75	0.52
40:L3:293:ASN:HB3	40:L3:305:ILE:HG13	1.91	0.52
56:N0:155:ARG:HG3	56:N0:156:VAL:N	2.22	0.52
58:N2:76:LEU:O	58:N2:80:THR:HG23	2.08	0.52
64:N8:14:HIS:CE1	68:O2:36:LYS:HE2	2.45	0.52
66:O0:39:SER:OG	66:O0:65:THR:HG21	2.10	0.52
1:6:41:A:H2'	1:6:438:A:H62	1.74	0.52
1:6:151:G:H22	1:6:163:G:N2	2.07	0.52
1:6:1029:U:O4	86:6:2153:OHX:N4	2.42	0.52
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	1.91	0.52
6:s4:246:LEU:HD13	6:s4:251:GLU:HG2	1.90	0.52
8:s6:2:LYS:HB3	8:s6:108:VAL:HG12	1.91	0.52
9:s7:39:ARG:NH2	55:m9:185:LEU:HD22	2.23	0.52
36:5:129:U:H2'	36:5:130:A:C8	2.44	0.52
36:5:192:C:H2'	36:5:193:C:C6	2.44	0.52
36:5:962:A:O2'	36:5:963:G:H5'	2.09	0.52
36:5:2364:G:H22	36:5:2396:G:H1'	1.74	0.52
40:l3:128:LYS:HD2	40:l3:131:THR:HG21	1.90	0.52
42:l5:61:ILE:HD13	42:l5:79:TYR:HE1	1.73	0.52
44:l7:203:TRP:CD1	44:l7:204:PRO:HD2	2.44	0.52
46:l9:122:LYS:HD3	46:l9:123:ILE:N	2.24	0.52
51:m5:36:ILE:HG12	51:m5:64:VAL:HG23	1.91	0.52
67:o1:88:PRO:HG2	67:o1:89:LEU:HD22	1.91	0.52
1:2:602:U:H2'	1:2:603:U:C6	2.45	0.52
1:2:1433:G:H2'	1:2:1434:U:C6	2.45	0.52
3:S1:76:SER:OG	3:S1:78:ASP:OD1	2.26	0.52
7:S5:49:GLU:O	7:S5:51:VAL:N	2.40	0.52
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.43	0.52
16:C4:92:LYS:NZ	28:D6:69:ASN:HB2	2.24	0.52
27:D5:59:TYR:CE2	27:D5:61:SER:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:269:G:H5'	51:M5:120:TRP:CZ3	2.44	0.52
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.57	0.52
36:1:1514:G:HO2'	36:1:1841:A:H2	1.56	0.52
36:1:1651:U:H2'	36:1:1652:G:C8	2.44	0.52
36:1:2273:G:O2'	36:1:2311:G:O6	2.23	0.52
36:1:2366:C:H2'	36:1:2367:A:C8	2.44	0.52
36:1:3317:U:H4'	36:1:3318:G:O5'	2.08	0.52
40:L3:146:ARG:O	40:L3:150:ARG:N	2.41	0.52
59:N3:27:ASP:OD1	59:N3:27:ASP:N	2.42	0.52
1:6:37:U:O2'	1:6:770:A:N1	2.37	0.52
5:s3:217:ILE:C	5:s3:219:ALA:H	2.18	0.52
12:c0:14:TYR:CE1	12:c0:18:GLU:HG3	2.45	0.52
13:c1:99:ARG:HB2	25:d3:12:ALA:HB2	1.91	0.52
23:d1:42:GLU:O	23:d1:42:GLU:HG2	2.09	0.52
34:sR:91:LEU:HB2	34:sR:103:PHE:HE2	1.73	0.52
36:5:1104:G:H2'	36:5:1105:A:C8	2.44	0.52
36:5:2211:U:H5	36:5:2234:G:H1	1.54	0.52
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.90	0.52
1:2:780:A:C8	26:D4:8:ARG:HB3	2.45	0.52
1:2:788:A:C4	6:S4:19:LEU:HD13	2.45	0.52
1:2:1113:A:O2'	86:2:2138:OHX:N6	2.42	0.52
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.74	0.52
5:S3:28:GLU:OE1	12:C0:58:GLN:HG3	2.09	0.52
14:C2:56:GLU:HB3	14:C2:124:LYS:HE3	1.91	0.52
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.10	0.52
20:C8:46:VAL:HG11	20:C8:73:MET:HG3	1.91	0.52
36:1:132:C:H2'	36:1:133:U:H5''	1.91	0.52
36:1:517:G:OP1	44:L7:60:ARG:NH1	2.40	0.52
36:1:796:U:H2'	36:1:797:U:C6	2.44	0.52
36:1:924:G:OP1	86:1:4043:OHX:N3	2.41	0.52
36:1:1103:A:H2'	36:1:1103:A:N3	2.25	0.52
36:1:1230:G:N2	36:1:1279:C:N3	2.57	0.52
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.43	0.52
38:4:124:G:O6	86:4:227:OHX:N2	2.42	0.52
42:L5:113:LEU:HB3	42:L5:115:LEU:HD22	1.92	0.52
42:L5:153:THR:HG22	42:L5:179:ARG:HE	1.75	0.52
46:L9:84:LYS:NZ	46:L9:191:LEU:HD13	2.25	0.52
53:M7:175:ARG:O	53:M7:179:GLN:HB2	2.10	0.52
57:N1:12:ARG:HD3	57:N1:13:TYR:HE2	1.74	0.52
58:N2:89:LEU:HD22	58:N2:93:ILE:HD11	1.90	0.52
1:6:654:C:H2'	1:6:655:G:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1795:U:O2	28:d6:10:ARG:NE	2.36	0.52
17:c5:18:ARG:HH21	17:c5:38:PRO:HG3	1.74	0.52
36:5:151:A:H2'	36:5:152:U:O4'	2.09	0.52
36:5:1055:A:H5''	37:7:100:C:O2'	2.10	0.52
36:5:1232:C:H2'	36:5:1233:G:H8	1.75	0.52
36:5:2592:G:H4'	36:5:2594:C:C2	2.45	0.52
36:5:2669:G:N7	86:5:3982:OHX:N2	2.57	0.52
37:7:60:G:H21	42:l5:274:GLN:HE22	1.55	0.52
38:8:110:C:O2'	38:8:112:U:OP2	2.21	0.52
40:l3:10:ARG:NH1	40:l3:11:HIS:O	2.42	0.52
51:m5:102:ALA:O	51:m5:106:VAL:HG13	2.09	0.52
52:m6:185:ALA:O	52:m6:188:SER:OG	2.28	0.52
59:n3:67:PRO:C	59:n3:69:LEU:H	2.17	0.52
1:2:10:G:H2'	1:2:11:A:C8	2.45	0.52
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.42	0.52
9:S7:51:VAL:HG23	9:S7:53:GLY:H	1.75	0.52
16:C4:84:ARG:HG3	16:C4:119:THR:HA	1.91	0.52
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.90	0.52
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.10	0.52
40:L3:277:SER:HB3	40:L3:280:HIS:NE2	2.23	0.52
43:L6:76:LEU:HD11	43:L6:141:VAL:HG21	1.92	0.52
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.10	0.52
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.91	0.52
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.45	0.52
59:N3:136:VAL:HG12	59:N3:137:VAL:HG23	1.91	0.52
63:N7:124:ALA:O	63:N7:126:LYS:N	2.43	0.52
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.41	0.52
1:6:1120:U:H2'	1:6:1121:C:C6	2.45	0.52
1:6:1216:C:O2	1:6:1446:A:N6	2.43	0.52
1:6:1334:U:H2'	1:6:1335:U:O4'	2.10	0.52
1:6:1370:U:H4'	1:6:1371:A:H4'	1.92	0.52
1:6:1797:A:C6	28:d6:87:ARG:HD2	2.44	0.52
16:c4:132:ARG:HH11	16:c4:132:ARG:HB2	1.74	0.52
30:d8:8:THR:HB	30:d8:56:LEU:HB2	1.92	0.52
36:5:2943:G:H2'	36:5:2944:U:O4'	2.09	0.52
46:l9:166:ARG:HD2	46:l9:168:ARG:HH11	1.74	0.52
47:m0:54:SER:O	47:m0:132:GLY:N	2.40	0.52
67:o1:44:MET:HB3	67:o1:77:ARG:NH1	2.24	0.52
75:o9:44:TRP:CZ3	75:o9:45:ARG:HG3	2.44	0.52
1:2:67:A:O3'	1:2:68:A:H3'	2.09	0.52
1:2:1107:G:H3'	1:2:1108:G:H21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1621:U:H2'	1:2:1622:G:C8	2.44	0.52
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.23	0.52
36:1:259:C:H2'	36:1:260:C:C6	2.44	0.52
36:1:398:A:H5''	53:M7:3:ARG:HD2	1.92	0.52
36:1:1048:A:H2'	47:M0:22:TYR:CE1	2.44	0.52
36:1:1210:U:H3	36:1:1295:G:H1	1.58	0.52
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.92	0.52
44:L7:224:ILE:HD13	56:N0:39:SER:HB2	1.92	0.52
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	1.92	0.52
46:L9:21:LYS:HA	50:M4:8:LYS:HG3	1.90	0.52
48:M1:82:ARG:HH22	48:M1:114:ILE:HD11	1.75	0.52
52:M6:55:HIS:O	52:M6:58:LEU:N	2.41	0.52
68:O2:85:LEU:HB2	68:O2:117:ILE:HD13	1.92	0.52
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.09	0.52
1:6:448:C:H4'	6:s4:28:ALA:O	2.09	0.52
3:s1:70:LEU:HG	3:s1:84:ILE:HD11	1.92	0.52
6:s4:131:LEU:HD11	6:s4:135:GLY:HA2	1.92	0.52
7:s5:51:VAL:O	7:s5:65:ARG:NH1	2.42	0.52
7:s5:136:ALA:O	7:s5:140:THR:OG1	2.18	0.52
11:s9:102:GLU:O	11:s9:106:GLU:N	2.38	0.52
20:c8:87:ASN:OD1	20:c8:99:HIS:HA	2.10	0.52
25:d3:46:SER:OG	25:d3:78:LYS:NZ	2.41	0.52
32:e0:39:LEU:O	32:e0:43:ARG:N	2.43	0.52
36:5:1155:C:H2'	36:5:1156:C:H6	1.74	0.52
36:5:1295:G:O2'	56:n0:115:ARG:NH1	2.40	0.52
36:5:1602:A:O3'	55:m9:9:ARG:NH2	2.43	0.52
36:5:1658:G:O6	86:5:4114:OHX:N3	2.43	0.52
36:5:2898:G:H5''	36:5:2899:C:H5'	1.91	0.52
37:7:11:A:H4'	37:7:13:A:C8	2.45	0.52
38:8:74:U:O2	86:8:217:OHX:N5	2.43	0.52
40:l3:220:VAL:O	40:l3:334:ARG:NH1	2.43	0.52
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	1.92	0.52
45:l8:148:ALA:HB3	45:l8:175:VAL:HG11	1.91	0.52
47:m0:12:GLN:NE2	47:m0:128:ARG:HB3	2.25	0.52
50:m4:8:LYS:HE2	50:m4:8:LYS:O	2.09	0.52
50:m4:108:ARG:NH1	50:m4:116:GLU:OE2	2.43	0.52
59:n3:11:PHE:CD1	59:n3:88:ARG:HD2	2.44	0.52
72:o6:57:LEU:O	72:o6:61:ILE:HG13	2.10	0.52
73:o7:2:GLY:O	73:o7:7:SER:HB2	2.10	0.52
74:o8:17:ARG:HG2	74:o8:20:VAL:HG23	1.90	0.52
1:2:81:G:OP2	86:2:2112:OHX:N5	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:446:A:OP1	6:S4:59:ARG:NE	2.36	0.52
1:2:704:C:O2	1:2:705:U:O2'	2.19	0.52
1:2:1101:G:O3'	24:D2:76:SER:OG	2.28	0.52
1:2:1335:U:H2'	1:2:1336:A:H8	1.73	0.52
1:2:1528:U:H2'	1:2:1529:C:H6	1.74	0.52
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.45	0.52
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.35	0.52
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.42	0.52
36:1:3228:C:H4'	36:1:3229:G:O5'	2.10	0.52
38:4:18:U:OP1	86:4:225:OHX:N2	2.42	0.52
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.92	0.52
46:L9:162:GLN:OE1	76:Q0:89:TYR:HE1	1.93	0.52
47:M0:48:LEU:HD23	47:M0:178:ARG:HH12	1.74	0.52
53:M7:129:THR:HG22	53:M7:139:TYR:HB2	1.91	0.52
58:N2:49:ASN:O	58:N2:49:ASN:ND2	2.38	0.52
63:N7:9:LYS:HB3	63:N7:25:ILE:HD12	1.91	0.52
1:6:225:A:N6	1:6:226:A:H62	2.08	0.52
1:6:1031:U:H4'	1:6:1032:G:OP2	2.09	0.52
1:6:1285:U:OP1	86:6:2104:OHX:N2	2.43	0.52
2:s0:58:VAL:O	2:s0:62:ARG:HG3	2.09	0.52
3:s1:61:LEU:HD11	3:s1:96:LEU:HD13	1.92	0.52
7:s5:43:PHE:HB3	7:s5:46:TRP:HD1	1.75	0.52
7:s5:90:ILE:HD11	7:s5:130:ILE:HG13	1.91	0.52
36:5:96:G:H5'	49:m3:15:ARG:NH2	2.25	0.52
36:5:1435:A:H5''	36:5:1436:U:H5''	1.92	0.52
36:5:1554:U:O2'	36:5:1581:C:H2'	2.10	0.52
36:5:1631:C:H5''	36:5:1632:A:H5''	1.92	0.52
36:5:1829:G:N7	86:5:3961:OHX:N3	2.57	0.52
36:5:1874:A:OP2	55:m9:20:ARG:HD2	2.10	0.52
36:5:2801:A:O2'	36:5:2802:A:H2'	2.10	0.52
38:8:9:A:H2'	38:8:10:A:C8	2.45	0.52
39:l2:47:GLN:HA	39:l2:84:THR:HG22	1.92	0.52
46:l9:47:LYS:HZ2	50:m4:5:SER:HB2	1.75	0.52
60:n4:63:ILE:C	60:n4:65:GLU:H	2.17	0.52
1:2:325:G:H4'	13:C1:83:THR:HG21	1.92	0.52
1:2:1460:A:O3'	35:SM:72:ARG:NH2	2.43	0.52
1:2:1621:U:H2'	1:2:1622:G:H8	1.74	0.52
1:2:1649:G:N7	86:2:2018:OHX:N1	2.58	0.52
1:2:1683:C:O2'	1:2:1684:U:O5'	2.27	0.52
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.91	0.52
5:S3:28:GLU:OE2	5:S3:65:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:96:ARG:HD2	9:S7:121:VAL:HG13	1.91	0.52
10:S8:189:LEU:O	10:S8:193:LEU:HB2	2.10	0.52
23:D1:12:TYR:CE2	23:D1:14:PRO:HG3	2.44	0.52
36:1:997:A:H2'	36:1:998:A:O4'	2.10	0.52
36:1:1404:G:C6	36:1:1408:G:C6	2.98	0.52
36:1:1824:U:OP1	74:O8:3:ARG:NH1	2.43	0.52
36:1:2127:U:O2'	36:1:2301:U:OP1	2.27	0.52
36:1:3003:G:P	40:L3:26:ARG:HH22	2.33	0.52
38:4:53:A:H4'	75:O9:40:LYS:HD2	1.90	0.52
38:4:121:U:H2'	38:4:122:U:C6	2.45	0.52
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	1.75	0.52
41:L4:31:ARG:NH1	41:L4:34:ILE:HD11	2.24	0.52
48:M1:94:ARG:C	48:M1:96:PHE:H	2.17	0.52
73:O7:22:CYS:SG	73:O7:24:ARG:HG3	2.50	0.52
1:6:119:A:H1'	1:6:397:A:C5	2.45	0.52
1:6:320:U:OP2	1:6:321:C:H3'	2.10	0.52
1:6:846:G:H2'	1:6:847:A:H8	1.74	0.52
1:6:1477:G:OP1	21:c9:44:GLU:N	2.39	0.52
1:6:1609:U:O2'	7:s5:105:GLY:O	2.12	0.52
25:d3:90:ASP:OD2	32:e0:12:GLY:HA2	2.10	0.52
36:5:188:U:H1'	36:5:208:C:H1'	1.90	0.52
36:5:912:G:N1	39:l2:208:ASP:OD2	2.33	0.52
36:5:1277:C:H2'	36:5:1278:A:C8	2.45	0.52
36:5:2202:C:H5''	39:l2:226:SER:CA	2.40	0.52
36:5:2655:U:H4'	36:5:2656:A:O4'	2.10	0.52
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.44	0.52
44:l7:173:LEU:HD21	44:l7:198:ALA:HA	1.92	0.52
47:m0:89:VAL:HG22	47:m0:136:PHE:CE1	2.45	0.52
53:m7:136:ILE:O	53:m7:137:ASN:ND2	2.43	0.52
57:n1:52:MET:HA	57:n1:95:HIS:CD2	2.45	0.52
66:o0:42:ILE:HD11	66:o0:67:VAL:HG22	1.92	0.52
1:2:894:U:H2'	1:2:895:G:H8	1.75	0.52
1:2:931:C:OP1	28:D6:70:LYS:NZ	2.27	0.52
1:2:1277:G:H2'	1:2:1278:G:O4'	2.10	0.52
8:S6:7:TYR:HD2	8:S6:8:PRO:HD2	1.73	0.52
33:E1:98:VAL:HG22	33:E1:99:LYS:H	1.74	0.52
36:1:199:A:C4	36:1:201:A:C8	2.98	0.52
36:1:392:G:O2'	62:N6:90:VAL:HG11	2.10	0.52
36:1:1354:G:H4'	43:L6:8:LYS:HE2	1.91	0.52
36:1:1944:U:H2'	36:1:1945:A:C8	2.45	0.52
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:111:LYS:HB3	53:M7:153:LYS:HB3	1.92	0.52
56:N0:77:VAL:HG11	56:N0:106:LEU:HD13	1.92	0.52
66:O0:92:ILE:HG21	66:O0:100:ILE:HD11	1.92	0.52
1:6:26:A:O2'	1:6:27:U:OP2	2.26	0.52
1:6:44:U:OP2	1:6:437:A:N6	2.43	0.52
1:6:264:G:O6	86:6:2024:OHX:N2	2.42	0.52
1:6:507:U:H2'	1:6:508:U:O4'	2.10	0.52
1:6:752:A:H3'	6:s4:187:ARG:NH1	2.25	0.52
1:6:767:U:C5	11:s9:143:ILE:HG13	2.44	0.52
1:6:1584:G:H22	1:6:1611:A:P	2.33	0.52
2:s0:124:THR:HG22	2:s0:174:TRP:NE1	2.17	0.52
3:s1:28:GLU:HG3	3:s1:50:LYS:HG3	1.92	0.52
10:s8:76:THR:HB	10:s8:105:ASP:CB	2.40	0.52
36:5:59:G:H2'	38:8:33:A:O2'	2.10	0.52
36:5:181:U:H1'	36:5:236:G:N2	2.24	0.52
36:5:549:U:H2'	36:5:550:A:H8	1.75	0.52
36:5:2512:C:OP2	86:5:3881:OHX:N6	2.42	0.52
39:l2:130:SER:HB2	39:l2:171:GLY:HA3	1.90	0.52
45:l8:121:SER:O	45:l8:123:GLN:N	2.43	0.52
45:l8:155:ASN:HD21	45:l8:181:LYS:HA	1.75	0.52
47:m0:51:HIS:ND1	47:m0:137:SER:OG	2.41	0.52
49:m3:106:GLN:HB3	72:o6:18:THR:OG1	2.10	0.52
50:m4:37:GLU:HG2	56:n0:72:VAL:HG21	1.91	0.52
58:n2:89:LEU:HB3	58:n2:93:ILE:HD12	1.93	0.52
60:n4:65:GLU:HA	60:n4:68:ALA:HB3	1.92	0.52
79:q3:49:ARG:HD3	79:q3:51:ALA:C	2.35	0.52
83:f:103:MET:SD	83:f:107:GLY:HA2	2.50	0.52
1:2:912:U:H4'	1:2:913:G:O5'	2.09	0.51
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.92	0.51
3:S1:154:SER:O	3:S1:154:SER:OG	2.28	0.51
14:C2:62:LEU:HA	14:C2:120:VAL:HA	1.92	0.51
17:C5:128:HIS:N	35:SM:71:ASN:OD1	2.42	0.51
18:C6:99:GLU:OE2	18:C6:102:LYS:NZ	2.40	0.51
20:C8:140:THR:OG1	20:C8:141:THR:N	2.42	0.51
24:D2:30:SER:HA	24:D2:34:ILE:HD12	1.91	0.51
30:D8:51:ASN:O	30:D8:51:ASN:ND2	2.42	0.51
34:SR:203:THR:OG1	34:SR:204:ALA:N	2.42	0.51
36:1:138:U:H2'	36:1:139:G:H8	1.75	0.51
36:1:180:C:H2'	36:1:181:U:C6	2.44	0.51
36:1:679:U:H2'	36:1:680:G:C8	2.45	0.51
36:1:1658:G:H2'	36:1:1659:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:10:A:H2'	38:4:11:C:C6	2.45	0.51
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.46	0.51
45:L8:78:PHE:C	45:L8:80:TYR:N	2.68	0.51
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.25	0.51
56:N0:109:ASP:OD1	56:N0:113:ARG:NH1	2.43	0.51
59:N3:74:MET:HE3	59:N3:102:ILE:HB	1.91	0.51
72:O6:43:LEU:O	72:O6:47:ILE:HG13	2.10	0.51
76:Q0:92:ASP:O	76:Q0:105:PRO:HG3	2.10	0.51
3:s1:139:ALA:HB2	3:s1:172:LEU:HD11	1.92	0.51
3:s1:154:SER:O	3:s1:154:SER:OG	2.21	0.51
5:s3:75:LYS:HB3	12:c0:22:VAL:HG22	1.92	0.51
27:d5:102:THR:HG22	27:d5:103:ARG:H	1.75	0.51
36:5:249:U:O2'	36:5:250:U:H5''	2.09	0.51
36:5:573:C:H2'	36:5:574:U:C6	2.45	0.51
36:5:622:A:H2'	36:5:623:U:O4'	2.10	0.51
40:l3:284:ARG:HG2	40:l3:321:PHE:HE1	1.75	0.51
44:l7:229:PHE:CD1	44:l7:229:PHE:C	2.88	0.51
64:n8:128:ARG:HB2	72:o6:8:ALA:CB	2.39	0.51
68:o2:16:LYS:HD2	68:o2:18:LYS:HE2	1.93	0.51
1:2:8:U:O2'	86:2:2033:OHX:N1	2.43	0.51
1:2:549:G:OP2	86:2:1994:OHX:N2	2.43	0.51
2:S0:47:VAL:HG21	19:C7:105:GLN:HB2	1.92	0.51
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.90	0.51
36:1:173:G:N2	36:1:246:U:H1'	2.26	0.51
36:1:827:A:H2'	36:1:828:A:H8	1.75	0.51
36:1:1593:A:N3	36:1:1615:C:O2'	2.43	0.51
36:1:1909:A:H2'	36:1:1910:A:C8	2.45	0.51
36:1:2665:U:H4'	36:1:2666:C:OP1	2.11	0.51
36:1:2796:G:O6	78:Q2:63:LYS:HD3	2.09	0.51
36:1:3009:G:OP1	86:1:4100:OHX:N5	2.42	0.51
36:1:3278:C:H2'	36:1:3278:C:O2	2.09	0.51
36:1:3288:G:O2'	86:1:4030:OHX:N1	2.44	0.51
36:1:3377:G:OP2	86:1:4077:OHX:N4	2.43	0.51
44:L7:138:TYR:CE2	44:L7:233:GLU:HG2	2.44	0.51
45:L8:140:VAL:HA	45:L8:143:ILE:HD12	1.93	0.51
47:M0:77:THR:O	47:M0:81:GLY:N	2.40	0.51
48:M1:116:TYR:HD2	48:M1:122:ILE:HD11	1.74	0.51
55:M9:140:GLU:HA	55:M9:143:ILE:HB	1.93	0.51
1:6:219:A:H2'	1:6:831:U:O2	2.09	0.51
1:6:755:A:HO2'	1:6:756:A:H8	1.58	0.51
1:6:1207:C:H42	1:6:1456:C:H5	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1405:G:H2'	1:6:1406:A:C8	2.45	0.51
3:s1:67:GLU:HG3	3:s1:85:LYS:HD2	1.92	0.51
10:s8:193:LEU:HA	10:s8:196:LEU:HD12	1.92	0.51
16:c4:115:ILE:HB	28:d6:65:PRO:HG3	1.92	0.51
36:5:2344:U:H2'	36:5:2345:A:C8	2.45	0.51
36:5:2623:G:H2'	36:5:2624:G:H8	1.75	0.51
36:5:3276:G:H2'	36:5:3276:G:OP2	2.11	0.51
39:l2:47:GLN:OE1	39:l2:60:LYS:HD2	2.09	0.51
46:l9:92:TYR:HB2	46:l9:142:ASP:HB3	1.92	0.51
72:o6:21:THR:O	72:o6:21:THR:OG1	2.29	0.51
1:2:858:G:OP1	9:S7:116:ARG:NH2	2.43	0.51
1:2:1681:A:H2'	1:2:1682:U:H5'	1.93	0.51
3:S1:65:VAL:HG12	3:S1:87:ARG:HA	1.91	0.51
4:S2:230:TRP:CE2	24:D2:68:ARG:HD3	2.46	0.51
6:S4:57:ASN:OD1	6:S4:59:ARG:NH1	2.43	0.51
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.92	0.51
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.11	0.51
15:C3:135:LEU:HD22	15:C3:139:TRP:CD2	2.46	0.51
21:C9:57:ARG:HB2	21:C9:57:ARG:HH11	1.75	0.51
36:1:999:G:O2'	36:1:1000:C:H5'	2.10	0.51
36:1:1786:G:H2'	36:1:1787:A:C8	2.44	0.51
36:1:2208:A:C6	86:1:3940:OHX:N6	2.76	0.51
46:L9:45:PHE:HA	46:L9:54:LYS:O	2.11	0.51
54:M8:33:TYR:HA	54:M8:36:LEU:HB2	1.91	0.51
71:O5:28:LEU:HD23	71:O5:47:VAL:HG22	1.91	0.51
77:Q1:2:ARG:HB3	77:Q1:5:TRP:CD1	2.46	0.51
1:6:1686:C:N3	1:6:1716:C:N4	2.58	0.51
2:s0:26:ALA:O	2:s0:46:HIS:ND1	2.43	0.51
2:s0:126:PRO:HA	2:s0:133:ILE:HD11	1.93	0.51
17:c5:87:PRO:HA	17:c5:90:ILE:HG13	1.92	0.51
36:5:119:U:H4'	36:5:120:G:H3'	1.93	0.51
36:5:561:C:H2'	36:5:562:C:H6	1.75	0.51
36:5:1129:A:N6	36:5:2864:A:O2'	2.43	0.51
36:5:1135:A:C2	36:5:1136:A:C8	2.98	0.51
38:8:53:A:C2	75:o9:35:ILE:HD11	2.46	0.51
40:l3:171:LEU:HD23	40:l3:172:ALA:H	1.75	0.51
45:l8:133:LYS:HG3	45:l8:201:THR:HG23	1.91	0.51
1:2:45:U:O2	1:2:434:G:H1'	2.11	0.51
1:2:75:U:H2'	1:2:76:A:O4'	2.10	0.51
1:2:364:G:O2'	1:2:757:A:N6	2.44	0.51
1:2:997:G:H2'	1:2:998:A:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1783:C:H2'	1:2:1784:C:H6	1.74	0.51
8:S6:189:HIS:CE1	8:S6:193:LEU:HD12	2.44	0.51
10:S8:122:GLY:H	10:S8:157:GLU:HG3	1.75	0.51
24:D2:12:ASN:O	24:D2:16:ASN:HB2	2.10	0.51
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.10	0.51
36:1:415:G:H2'	36:1:416:A:C8	2.45	0.51
36:1:1352:A:H4'	36:1:1353:U:OP1	2.10	0.51
36:1:2901:G:H5'	46:L9:175:PHE:CZ	2.46	0.51
41:L4:44:LYS:HD3	41:L4:47:ARG:NH1	2.26	0.51
48:M1:15:GLU:HB3	48:M1:130:VAL:HG13	1.92	0.51
49:M3:93:ILE:O	49:M3:119:TYR:OH	2.25	0.51
52:M6:127:LEU:HD11	56:N0:168:PRO:HG3	1.93	0.51
68:O2:76:VAL:HG22	68:O2:81:ASP:HB3	1.92	0.51
1:6:515:A:H2'	1:6:516:G:O4'	2.09	0.51
1:6:833:U:OP2	86:6:2134:OHX:N5	2.43	0.51
1:6:1625:C:H2'	1:6:1626:U:C6	2.45	0.51
1:6:1672:G:H2'	1:6:1673:G:C8	2.46	0.51
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.10	0.51
5:s3:211:PRO:HG2	19:c7:19:ARG:HB3	1.92	0.51
18:c6:109:PHE:HB3	18:c6:116:LEU:HD13	1.92	0.51
32:e0:62:VAL:HG23	32:e0:63:GLN:H	1.75	0.51
36:5:638:C:N4	36:5:647:A:OP1	2.41	0.51
36:5:1603:A:H61	61:n5:71:THR:HG21	1.76	0.51
36:5:1606:U:O4	70:o4:9:ARG:NH2	2.40	0.51
36:5:2437:G:H2'	36:5:2438:A:O4'	2.10	0.51
46:l9:163:GLN:O	46:l9:166:ARG:HG3	2.10	0.51
49:m3:180:ARG:O	49:m3:184:GLU:HB2	2.09	0.51
1:2:77:U:O2'	86:S6:301:OHX:N1	2.43	0.51
1:2:472:U:H5''	11:S9:11:THR:HG23	1.93	0.51
1:2:532:U:O2'	26:D4:33:ALA:HB1	2.10	0.51
1:2:1147:A:H2'	1:2:1148:C:C6	2.46	0.51
1:2:1657:U:H4'	1:2:1658:G:O5'	2.11	0.51
2:S0:168:HIS:HB3	2:S0:203:PHE:HE2	1.74	0.51
3:S1:105:PHE:H	3:S1:214:LYS:HE2	1.75	0.51
7:S5:177:ILE:HG12	7:S5:180:ARG:HH12	1.75	0.51
25:D3:86:PHE:HB2	25:D3:120:VAL:HG11	1.91	0.51
36:1:547:G:H1'	36:1:548:G:C8	2.45	0.51
36:1:936:A:OP1	64:N8:28:HIS:ND1	2.40	0.51
36:1:2154:U:H4'	39:L2:240:ALA:HB2	1.91	0.51
36:1:2267:C:H2'	36:1:2268:U:O4'	2.10	0.51
38:4:104:A:C8	38:4:105:A:C8	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:60:ILE:H	42:L5:80:SER:HB3	1.75	0.51
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.44	0.51
78:Q2:65:THR:OG1	78:Q2:87:ARG:HD3	2.10	0.51
79:Q3:73:THR:HG22	79:Q3:76:ALA:HB3	1.93	0.51
11:s9:34:PHE:HD1	11:s9:111:THR:HG21	1.75	0.51
25:d3:107:PHE:HD2	25:d3:121:ARG:HA	1.75	0.51
36:5:2555:G:OP2	70:o4:91:ARG:HD3	2.11	0.51
36:5:2726:C:O2'	36:5:2727:A:H2'	2.10	0.51
38:8:67:U:O4	86:8:223:OHX:N3	2.43	0.51
42:l5:208:MET:HE3	42:l5:223:PHE:CD2	2.45	0.51
45:l8:182:GLY:HA3	45:l8:185:ARG:HB2	1.92	0.51
50:m4:107:GLU:O	50:m4:110:ALA:HB3	2.10	0.51
55:m9:154:ALA:O	55:m9:158:GLU:HG2	2.11	0.51
55:m9:158:GLU:O	55:m9:162:ARG:HG3	2.10	0.51
1:2:47:A:N1	1:2:386:G:H1'	2.26	0.51
1:2:700:C:N4	1:2:738:G:H1	2.08	0.51
5:S3:117:ARG:HG3	35:SM:122:GLU:HB2	1.93	0.51
13:C1:67:ARG:NH2	13:C1:128:CYS:O	2.44	0.51
20:C8:16:ARG:NH1	20:C8:19:ASN:O	2.43	0.51
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	1.92	0.51
36:1:596:C:H5'	44:L7:37:ASN:ND2	2.25	0.51
36:1:612:U:H2'	36:1:613:G:H8	1.75	0.51
36:1:1162:U:H4'	68:O2:57:TYR:CE1	2.46	0.51
36:1:1176:C:OP1	52:M6:25:LYS:HE3	2.11	0.51
36:1:1782:U:H2'	36:1:1783:U:O4'	2.11	0.51
36:1:2546:C:H5'	36:1:2547:A:OP2	2.10	0.51
40:L3:361:THR:H	40:L3:371:GLN:NE2	2.09	0.51
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.25	0.51
50:M4:60:LEU:HD22	56:N0:152:LEU:HD11	1.92	0.51
51:M5:53:TYR:HD1	51:M5:133:ILE:HD13	1.75	0.51
56:N0:90:MET:HE1	56:N0:114:HIS:CD2	2.46	0.51
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.46	0.51
72:O6:98:ARG:H	72:O6:98:ARG:HD2	1.75	0.51
1:6:747:C:H2'	1:6:748:U:H6	1.76	0.51
1:6:814:A:C8	1:6:816:G:C8	2.99	0.51
1:6:1133:A:H2'	1:6:1134:C:O4'	2.10	0.51
4:s2:144:TRP:HB3	4:s2:152:HIS:CE1	2.45	0.51
9:s7:125:ILE:O	9:s7:129:LEU:HB2	2.10	0.51
36:5:917:A:OP2	86:5:4133:OHX:N1	2.44	0.51
36:5:1255:C:H2'	36:5:1256:G:H8	1.76	0.51
36:5:1580:A:H62	61:n5:33:ARG:HE	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1840:U:OP2	86:5:3953:OHX:N4	2.43	0.51
36:5:2207:A:H62	36:5:2236:G:H1	1.59	0.51
46:19:50:ASN:ND2	50:m4:4:ASP:OD1	2.42	0.51
46:l9:87:LYS:N	46:l9:185:GLY:O	2.38	0.51
63:n7:3:LYS:HE2	63:n7:5:LEU:HB2	1.93	0.51
77:q1:21:ARG:C	77:q1:23:ARG:H	2.19	0.51
1:2:545:A:H4'	1:2:546:U:OP1	2.10	0.51
1:2:751:G:H2'	1:2:752:A:H8	1.75	0.51
1:2:973:A:H2'	1:2:974:A:C8	2.45	0.51
1:2:1317:C:H2'	1:2:1318:G:O4'	2.11	0.51
1:2:1755:A:H8	25:D3:63:GLN:HG3	1.75	0.51
2:S0:177:LEU:O	2:S0:181:VAL:HG13	2.11	0.51
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.91	0.51
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.46	0.51
11:S9:174:ARG:HA	11:S9:174:ARG:HE	1.75	0.51
13:C1:29:LYS:H	13:C1:29:LYS:HD3	1.75	0.51
26:D4:84:LYS:HG3	26:D4:85:PHE:CD2	2.45	0.51
33:E1:144:CYS:SG	33:E1:147:VAL:HG22	2.51	0.51
36:1:107:A:H1'	36:1:325:A:N3	2.26	0.51
36:1:415:G:H2'	36:1:416:A:H8	1.76	0.51
36:1:760:G:H1'	36:1:770:G:N2	2.25	0.51
36:1:1632:A:H2'	36:1:1633:C:C6	2.45	0.51
36:1:1659:U:H2'	36:1:1660:C:C6	2.45	0.51
36:1:2652:U:C5	36:1:2653:C:C5	2.99	0.51
36:1:2924:U:O4	86:1:3913:OHX:N1	2.43	0.51
36:1:3049:A:H5'	36:1:3049:A:H8	1.75	0.51
41:L4:282:SER:OG	41:L4:283:THR:N	2.43	0.51
42:L5:40:HIS:HE1	42:L5:42:ALA:HB3	1.75	0.51
49:M3:140:SER:OG	49:M3:143:ALA:N	2.27	0.51
62:N6:52:ARG:O	62:N6:70:ILE:HB	2.11	0.51
67:O1:83:GLU:OE2	86:O1:201:OHX:N4	2.44	0.51
1:6:222:A:H62	1:6:833:U:H3	1.59	0.51
1:6:1263:G:H2'	1:6:1264:G:O4'	2.10	0.51
1:6:1370:U:O4	86:6:2110:OHX:N3	2.44	0.51
1:6:1499:G:C5	1:6:1500:C:C4	2.99	0.51
1:6:1500:C:H2'	1:6:1501:C:C6	2.44	0.51
1:6:1674:C:H2'	1:6:1675:C:C6	2.45	0.51
3:s1:71:ALA:C	3:s1:73:LEU:H	2.18	0.51
5:s3:140:GLY:HA3	5:s3:182:LEU:HD22	1.93	0.51
6:s4:65:LEU:HD23	6:s4:70:VAL:HG11	1.93	0.51
8:s6:67:VAL:HG23	8:s6:100:ALA:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:102:GLU:HA	11:s9:105:LEU:HB2	1.93	0.51
12:c0:50:THR:HG22	12:c0:55:VAL:HG13	1.92	0.51
12:c0:50:THR:HG21	12:c0:57:THR:OG1	2.11	0.51
36:5:1781:C:H2'	36:5:1782:U:C6	2.46	0.51
36:5:2101:C:H2'	36:5:2102:U:C6	2.45	0.51
36:5:2279:A:O5'	36:5:2280:A:H5'	2.10	0.51
36:5:2400:G:H5''	36:5:2401:A:OP2	2.11	0.51
36:5:2861:U:H2'	36:5:2862:U:O4'	2.11	0.51
36:5:3275:U:H4'	36:5:3276:G:OP2	2.10	0.51
58:n2:33:TYR:CE1	58:n2:37:LEU:HD23	2.45	0.51
75:o9:27:ILE:HG23	75:o9:30:ARG:CZ	2.40	0.51
81:p0:43:LYS:HA	81:p0:46:ARG:HG2	1.93	0.51
1:2:926:A:H1'	1:2:988:A:C2	2.45	0.51
1:2:1497:U:C4	1:2:1511:U:C2	2.99	0.51
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.11	0.51
29:D7:48:SER:O	29:D7:71:ALA:N	2.41	0.51
36:1:239:G:N7	86:1:3930:OHX:N4	2.58	0.51
36:1:706:A:H4'	36:1:781:G:O2'	2.11	0.51
36:1:1405:U:OP2	68:O2:59:SER:OG	2.29	0.51
36:1:3393:U:H2'	36:1:3394:U:H6	1.76	0.51
40:L3:58:ARG:HD2	40:L3:354:VAL:HB	1.92	0.51
45:L8:73:PRO:HG3	45:L8:233:TRP:CD1	2.46	0.51
46:L9:8:GLN:HB2	46:L9:55:VAL:HG23	1.93	0.51
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.76	0.51
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.10	0.51
52:M6:39:GLU:OE1	52:M6:39:GLU:N	2.30	0.51
55:M9:99:LEU:O	55:M9:103:ARG:HB2	2.10	0.51
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.44	0.51
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.46	0.51
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	1.91	0.51
1:6:66:U:O5'	8:s6:173:PRO:HA	2.11	0.51
1:6:405:C:O2'	8:s6:92:ARG:O	2.25	0.51
1:6:1017:U:H2'	1:6:1018:U:C6	2.45	0.51
6:s4:198:LYS:HD2	6:s4:222:LEU:HD12	1.92	0.51
8:s6:121:LEU:O	8:s6:123:GLY:N	2.44	0.51
9:s7:164:TYR:CZ	9:s7:165:LYS:HE2	2.45	0.51
25:d3:56:LYS:NZ	25:d3:96:VAL:O	2.44	0.51
26:d4:27:VAL:HG12	26:d4:29:HIS:HD2	1.75	0.51
34:sR:69:GLN:N	34:sR:83:ALA:O	2.43	0.51
36:5:1071:U:O4	86:5:4019:OHX:N3	2.43	0.51
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1580:A:P	36:5:2522:G:H1	2.33	0.51
36:5:1657:C:O2'	36:5:1797:A:OP2	2.26	0.51
36:5:2992:U:H1'	53:m7:69:ARG:HH21	1.76	0.51
36:5:3081:C:H2'	36:5:3082:C:H6	1.75	0.51
39:l2:153:GLY:HA3	39:l2:251:LYS:HG2	1.91	0.51
41:l4:181:VAL:HG11	41:l4:223:PRO:C	2.36	0.51
42:l5:211:LEU:HD13	42:l5:219:PHE:HA	1.93	0.51
51:m5:118:SER:HB3	51:m5:132:VAL:HG22	1.93	0.51
1:2:918:U:H2'	1:2:919:A:H8	1.74	0.51
1:2:1043:A:H61	1:2:1075:C:N4	2.09	0.51
1:2:1575:G:H2'	1:2:1576:A:C8	2.46	0.51
18:C6:11:GLY:HA3	18:C6:80:ALA:O	2.11	0.51
24:D2:62:VAL:HG13	29:D7:7:LEU:HD12	1.93	0.51
36:1:1922:A:H3'	36:1:1923:C:H6	1.76	0.51
41:L4:361:HIS:CG	41:L4:362:ASP:N	2.79	0.51
44:L7:123:THR:O	44:L7:127:LEU:HD12	2.11	0.51
63:N7:54:THR:HG23	63:N7:57:HIS:H	1.76	0.51
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.11	0.51
2:s0:22:THR:HG23	2:s0:169:SER:HB3	1.92	0.51
9:s7:51:VAL:HG23	9:s7:53:GLY:H	1.76	0.51
11:s9:47:PHE:CZ	11:s9:51:LYS:HE2	2.45	0.51
36:5:855:U:H5''	55:m9:95:TRP:CD2	2.46	0.51
36:5:1205:A:H4'	36:5:2835:U:O2'	2.11	0.51
36:5:2818:U:H5''	65:n9:2:ALA:HB2	1.93	0.51
36:5:3120:C:OP2	86:5:3835:OHX:N3	2.44	0.51
36:5:3245:A:H2	36:5:3246:G:N1	2.08	0.51
41:l4:281:ILE:HG13	54:m8:125:ASP:CG	2.36	0.51
42:l5:91:GLY:O	42:l5:94:ASN:ND2	2.44	0.51
59:n3:6:ALA:HB1	59:n3:125:LEU:HD12	1.91	0.51
1:2:810:G:C5	9:S7:111:LYS:HE3	2.45	0.51
1:2:1178:G:H2'	1:2:1179:G:O4'	2.11	0.51
1:2:1191:U:OP2	18:C6:143:ARG:NH2	2.37	0.51
1:2:1637:C:OP2	86:2:2082:OHX:N3	2.44	0.51
2:S0:60:ALA:O	2:S0:64:ILE:HG13	2.10	0.51
18:C6:47:LYS:HZ1	18:C6:114:ARG:HH21	1.59	0.51
18:C6:109:PHE:HB3	18:C6:117:LEU:HD21	1.92	0.51
29:D7:34:ASP:HB3	29:D7:43:ILE:HD12	1.92	0.51
36:1:1541:G:H1'	36:1:1557:A:C5	2.46	0.51
36:1:1556:C:H2'	36:1:2169:G:H1	1.76	0.51
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.43	0.51
36:1:3122:A:O2'	46:L9:63:LYS:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.93	0.51
49:M3:175:SER:O	49:M3:178:LYS:N	2.44	0.51
59:N3:28:ASN:OD1	59:N3:112:SER:N	2.43	0.51
63:N7:27:LYS:HG3	63:N7:29:HIS:CE1	2.40	0.51
66:O0:33:SER:OG	66:O0:39:SER:HB2	2.11	0.51
1:6:85:A:O3'	26:d4:120:GLY:HA2	2.11	0.51
1:6:625:C:H2'	1:6:626:U:C6	2.46	0.51
1:6:922:G:H2'	1:6:923:A:C8	2.45	0.51
1:6:1126:G:P	77:q1:15:ARG:HH12	2.34	0.51
1:6:1345:A:OP2	22:d0:53:LYS:NZ	2.33	0.51
3:s1:33:LYS:HE2	3:s1:41:ARG:NH1	2.25	0.51
3:s1:116:LYS:HG2	3:s1:117:TRP:H	1.76	0.51
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.45	0.51
6:s4:130:GLN:HB3	6:s4:138:TYR:CE2	2.46	0.51
6:s4:252:ARG:NH2	6:s4:253:ASP:OD1	2.44	0.51
23:d1:17:CYS:SG	23:d1:18:SER:N	2.83	0.51
26:d4:91:LEU:O	26:d4:96:LEU:N	2.40	0.51
36:5:872:U:H2'	36:5:873:C:C6	2.46	0.51
40:l3:73:VAL:HG13	59:n3:89:ASP:O	2.11	0.51
40:l3:278:ILE:HD12	40:l3:279:ASN:CG	2.36	0.51
42:l5:270:LYS:HG3	42:l5:273:ARG:CB	2.41	0.51
44:l7:33:ARG:NH1	44:l7:34:LYS:HE2	2.26	0.51
45:l8:161:GLU:HA	45:l8:164:VAL:HG22	1.92	0.51
48:m1:166:LYS:O	48:m1:168:ASP:N	2.40	0.51
52:m6:77:SER:HB3	52:m6:106:GLU:OE1	2.10	0.51
54:m8:185:LYS:HD3	54:m8:186:VAL:HG23	1.92	0.51
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.91	0.51
1:2:872:G:N2	1:2:956:C:O2	2.44	0.50
1:2:1737:G:O6	86:2:2008:OHX:N4	2.44	0.50
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.94	0.50
7:S5:121:ILE:HD11	7:S5:198:LEU:HD12	1.92	0.50
28:D6:30:ILE:HD11	28:D6:35:ALA:HA	1.93	0.50
32:E0:49:LEU:HD11	32:E0:55:ARG:HB2	1.92	0.50
34:SR:274:LEU:HD13	34:SR:313:TRP:CG	2.46	0.50
36:1:1238:C:H41	36:1:1245:A:P	2.34	0.50
36:1:3081:C:H2'	36:1:3082:C:H6	1.75	0.50
51:M5:96:ARG:HG2	51:M5:96:ARG:NH1	2.26	0.50
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.11	0.50
56:N0:26:ARG:HH22	56:N0:28:ARG:HD2	1.76	0.50
61:N5:88:MET:HA	61:N5:120:LYS:HE3	1.93	0.50
67:O1:72:ARG:HB3	67:O1:98:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Q0:95:VAL:HA	76:Q0:101:ALA:O	2.11	0.50
79:Q3:76:ALA:HA	79:Q3:79:VAL:HB	1.93	0.50
1:6:973:A:H2'	1:6:974:A:C8	2.46	0.50
1:6:1533:C:H4'	1:6:1539:G:C6	2.47	0.50
1:6:1557:U:O2'	1:6:1558:U:H2'	2.11	0.50
18:c6:109:PHE:O	18:c6:113:ASP:N	2.44	0.50
36:5:286:U:H2'	36:5:287:G:C8	2.46	0.50
36:5:532:A:O2'	36:5:533:A:H5'	2.12	0.50
36:5:942:U:C4	64:n8:16:SER:HA	2.46	0.50
36:5:1454:A:OP1	86:5:4112:OHX:N4	2.44	0.50
36:5:2222:A:H8	36:5:2222:A:O5'	1.94	0.50
36:5:2926:A:H2'	36:5:2927:C:C6	2.45	0.50
36:5:3027:A:H2'	36:5:3028:G:O4'	2.10	0.50
44:l7:232:ARG:O	44:l7:235:PHE:HB2	2.12	0.50
64:n8:74:ASN:HA	64:n8:113:LEU:O	2.11	0.50
65:n9:16:ALA:O	65:n9:20:GLY:HA3	2.10	0.50
69:o3:67:MET:HE1	69:o3:87:ASN:HB2	1.93	0.50
70:o4:10:ARG:HD2	75:o9:4:GLN:NE2	2.26	0.50
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.92	0.50
1:2:832:U:H2'	1:2:833:U:O4'	2.11	0.50
1:2:1387:G:OP1	19:C7:33:ARG:NH1	2.43	0.50
6:S4:193:GLY:O	6:S4:195:ILE:N	2.45	0.50
21:C9:57:ARG:HG2	21:C9:104:VAL:HG21	1.93	0.50
36:1:1108:U:H2'	36:1:1109:U:C6	2.46	0.50
36:1:1803:C:H5'	70:O4:63:ALA:HB2	1.92	0.50
37:3:26:C:H5'	42:L5:56:THR:HB	1.93	0.50
40:L3:220:VAL:O	40:L3:334:ARG:NH1	2.42	0.50
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.29	0.50
49:M3:57:VAL:HG22	49:M3:147:ILE:HD13	1.93	0.50
49:M3:140:SER:HG	49:M3:143:ALA:H	1.51	0.50
51:M5:126:THR:HB	51:M5:127:TYR:CD2	2.46	0.50
52:M6:32:LYS:HA	52:M6:101:ARG:HB3	1.93	0.50
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.12	0.50
1:6:320:U:H2'	1:6:321:C:O2	2.11	0.50
1:6:647:G:H8	1:6:647:G:O5'	1.94	0.50
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.46	0.50
5:s3:54:ARG:HD2	5:s3:57:ASP:CG	2.35	0.50
9:s7:12:ALA:HB3	9:s7:13:PRO:HD3	1.94	0.50
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.46	0.50
18:c6:31:VAL:HA	18:c6:67:VAL:HG23	1.94	0.50
22:d0:26:LEU:N	22:d0:89:ARG:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:64:GLU:O	23:d1:68:SER:HB2	2.10	0.50
36:5:1160:C:N3	68:o2:45:ARG:NH1	2.59	0.50
36:5:1366:A:C2	36:5:1367:G:C4	2.99	0.50
36:5:1658:G:H1	36:5:1791:C:H42	1.58	0.50
36:5:1877:U:OP2	86:5:3873:OHX:N3	2.44	0.50
39:l2:127:ALA:O	39:l2:169:ILE:HD11	2.11	0.50
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.94	0.50
48:m1:108:GLU:HA	48:m1:122:ILE:HG23	1.94	0.50
49:m3:132:ALA:O	49:m3:134:GLU:N	2.44	0.50
60:n4:128:ALA:HA	60:n4:131:ALA:HB3	1.93	0.50
62:n6:89:LYS:HB2	62:n6:91:ASN:OD1	2.11	0.50
63:n7:80:LEU:O	63:n7:82:PRO:HD3	2.11	0.50
71:o5:85:THR:HG22	71:o5:87:ALA:N	2.26	0.50
73:o7:65:ARG:HG3	73:o7:65:ARG:NH1	2.13	0.50
74:o8:32:ASN:OD1	74:o8:36:LYS:N	2.40	0.50
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.12	0.50
1:2:1175:U:H2'	1:2:1176:G:C8	2.46	0.50
3:S1:108:ASP:HB3	28:D6:66:LYS:O	2.12	0.50
10:S8:103:GLN:HG2	10:S8:164:ARG:HB3	1.93	0.50
22:D0:22:ILE:HD12	22:D0:118:VAL:HA	1.93	0.50
36:1:559:A:H4'	36:1:559:A:OP1	2.11	0.50
36:1:828:A:H2'	36:1:829:U:C6	2.46	0.50
36:1:1029:G:H2'	36:1:1030:A:C8	2.46	0.50
36:1:2255:A:H5'	36:1:2261:G:H22	1.77	0.50
36:1:2940:A:N7	40:L3:2:SER:N	2.58	0.50
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.10	0.50
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.93	0.50
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.76	0.50
48:M1:133:ARG:HB2	48:M1:152:HIS:NE2	2.26	0.50
56:N0:8:GLN:HG3	56:N0:26:ARG:NE	2.26	0.50
57:N1:82:ASN:OD1	57:N1:82:ASN:N	2.44	0.50
1:6:51:A:OP1	86:6:2034:OHX:N3	2.44	0.50
1:6:234:G:H2'	1:6:235:G:O4'	2.11	0.50
1:6:483:A:H61	1:6:503:G:H22	1.57	0.50
1:6:742:U:O2	9:s7:104:ARG:NE	2.43	0.50
1:6:918:U:H2'	1:6:919:A:C8	2.40	0.50
1:6:982:U:O4	1:6:983:A:N6	2.43	0.50
1:6:1066:C:OP1	3:s1:151:LYS:NZ	2.33	0.50
7:s5:146:THR:HG23	7:s5:157:ARG:HB3	1.93	0.50
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.94	0.50
12:c0:23:ALA:CB	12:c0:64:TYR:HB2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:99:GLU:OE2	34:sR:60:SER:HB2	2.11	0.50
28:d6:20:PRO:HA	28:d6:31:PRO:HA	1.92	0.50
33:e1:86:THR:HG23	33:e1:87:THR:H	1.76	0.50
36:5:727:G:H2'	36:5:728:G:O4'	2.12	0.50
36:5:750:G:H2'	36:5:751:A:H8	1.75	0.50
36:5:1340:G:H2'	36:5:1341:U:C6	2.46	0.50
36:5:1464:G:N7	86:5:3890:OHX:N3	2.58	0.50
36:5:2836:C:H5	36:5:2852:C:N4	2.04	0.50
40:l3:86:VAL:HG22	40:l3:162:VAL:HG12	1.93	0.50
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.10	0.50
49:m3:170:LEU:HD22	72:o6:9:ILE:HG22	1.93	0.50
51:m5:156:HIS:HB3	51:m5:159:ARG:HD2	1.92	0.50
59:n3:39:VAL:HG21	59:n3:51:ALA:C	2.36	0.50
1:2:248:U:H4'	13:C1:36:LYS:HD3	1.91	0.50
1:2:649:U:O2'	1:2:650:U:O5'	2.29	0.50
1:2:1014:G:OP1	86:2:1992:OHX:N3	2.44	0.50
1:2:1347:U:OP1	22:D0:90:TYR:OH	2.20	0.50
1:2:1370:U:O4	86:2:2089:OHX:N3	2.44	0.50
1:2:1655:A:N1	36:1:2291:A:O2'	2.36	0.50
1:2:1756[A]:A:H8	1:2:1756[A]:A:OP2	1.94	0.50
3:S1:212:VAL:O	3:S1:214:LYS:N	2.39	0.50
5:S3:216:PRO:HG2	5:S3:217:ILE:HG13	1.94	0.50
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.75	0.50
36:1:617:G:H4'	53:M7:171:ARG:HE	1.77	0.50
36:1:1000:C:N4	36:1:1046:A:H62	2.10	0.50
36:1:1313:G:H2'	36:1:1314:C:C6	2.46	0.50
36:1:1813:A:H4'	36:1:1817:G:H1'	1.92	0.50
36:1:2369:G:H2'	36:1:2370:G:C8	2.46	0.50
36:1:3218:A:H5''	36:1:3219:G:C5	2.47	0.50
36:1:3319:U:H3'	36:1:3319:U:P	2.51	0.50
40:L3:160:VAL:HG22	40:L3:183:LEU:HD22	1.92	0.50
41:L4:64:SER:OG	41:L4:65:TRP:N	2.38	0.50
41:L4:71:VAL:HG22	41:L4:72:ALA:H	1.77	0.50
44:L7:40:LYS:O	44:L7:44:ILE:HG13	2.12	0.50
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.25	0.50
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.12	0.50
57:N1:78:LYS:HB3	57:N1:87:LYS:HG3	1.93	0.50
67:O1:20:LEU:HD11	67:O1:32:ALA:HB2	1.94	0.50
79:Q3:81:SER:HA	79:Q3:84:ARG:HB2	1.92	0.50
1:6:333:A:C8	10:s8:49:ARG:HD3	2.46	0.50
3:s1:103:MET:HB3	3:s1:215:VAL:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:110:ALA:O	7:s5:114:ILE:N	2.40	0.50
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	1.94	0.50
34:sR:49:GLY:HA2	34:sR:54:PHE:CD1	2.47	0.50
36:5:2425:G:H2'	36:5:2426:U:O4'	2.12	0.50
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.46	0.50
46:l9:139:ASN:OD1	46:l9:139:ASN:N	2.43	0.50
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.45	0.50
66:o0:25:LEU:HD22	66:o0:90:VAL:HG22	1.93	0.50
1:2:450:U:H2'	1:2:451:A:C8	2.46	0.50
1:2:1338:C:H1'	1:2:1410:A:C4	2.46	0.50
4:S2:140:ARG:NH2	23:D1:1:MET:HB3	2.26	0.50
5:S3:117:ARG:NH1	35:SM:126:ASP:OD2	2.43	0.50
7:S5:40:ILE:HD13	7:S5:42:LEU:HD13	1.92	0.50
11:S9:34:PHE:CE1	11:S9:105:LEU:HB3	2.47	0.50
11:S9:104:PHE:HB3	11:S9:147:MET:HE1	1.94	0.50
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.75	0.50
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.93	0.50
34:SR:295:SER:HB2	34:SR:300:THR:HB	1.93	0.50
36:1:317:A:C2	36:1:318:A:C4	2.99	0.50
36:1:414:U:H2'	36:1:415:G:C8	2.45	0.50
36:1:586:C:OP1	69:O3:70:LYS:NZ	2.20	0.50
36:1:701:G:H2'	36:1:702:C:C6	2.47	0.50
36:1:1792:C:H2'	36:1:1795:U:H5	1.77	0.50
36:1:2203:U:H4'	39:L2:241:ARG:HA	1.92	0.50
36:1:2404:A:H5'	36:1:2404:A:C8	2.41	0.50
36:1:2709:C:H2'	36:1:2710:C:C6	2.46	0.50
36:1:3000:A:H2'	36:1:3001:C:H6	1.77	0.50
42:L5:261:THR:OG1	42:L5:264:GLN:N	2.32	0.50
47:M0:150:GLU:HG3	47:M0:154:ARG:HE	1.76	0.50
47:M0:176:LEU:HD22	47:M0:180:GLU:HG3	1.94	0.50
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.94	0.50
63:N7:81:LEU:HG	70:O4:90:ILE:HD12	1.94	0.50
74:O8:49:SER:OG	74:O8:50:SER:N	2.45	0.50
1:6:192:U:O4	10:s8:137:LYS:NZ	2.45	0.50
1:6:396:G:N2	1:6:398:G:H3'	2.27	0.50
1:6:691:C:OP1	1:6:696:C:N4	2.42	0.50
1:6:1619:C:O2	30:d8:22:ARG:NH1	2.44	0.50
7:s5:28:PRO:HG2	18:c6:37:THR:HG21	1.94	0.50
24:d2:47:ILE:HG22	24:d2:65:LEU:HD12	1.93	0.50
36:5:136:G:H5'	71:o5:95:PHE:CG	2.47	0.50
36:5:1781:C:H2'	36:5:1782:U:H6	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2986:U:H2'	36:5:2987:A:C8	2.46	0.50
39:12:60:LYS:HD3	39:12:73:GLU:OE2	2.12	0.50
39:12:116:VAL:HG11	39:12:134:VAL:HG11	1.93	0.50
40:13:296:THR:HG22	40:13:298:PHE:H	1.75	0.50
42:15:178:ASN:OD1	42:15:178:ASN:N	2.44	0.50
47:m0:4:ARG:HH21	47:m0:99:ILE:HG22	1.75	0.50
47:m0:212:GLU:HB3	47:m0:213:PHE:CD1	2.47	0.50
50:m4:21:VAL:HG12	50:m4:65:LEU:HA	1.94	0.50
54:m8:155:MET:HE2	54:m8:163:PRO:HB3	1.93	0.50
61:n5:31:THR:HG22	61:n5:33:ARG:HD2	1.93	0.50
67:o1:20:LEU:HD11	67:o1:32:ALA:HB2	1.93	0.50
73:o7:84:SER:O	73:o7:85:LYS:HB3	2.11	0.50
83:f:99:PHE:HD1	83:f:114:LYS:HB3	1.76	0.50
1:2:205:U:O4	86:2:2035:OHX:N3	2.44	0.50
1:2:704:C:N4	1:2:734:A:O2'	2.45	0.50
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.45	0.50
1:2:1396:U:H2'	1:2:1397:U:C6	2.47	0.50
6:S4:72:VAL:HG22	6:S4:90:ILE:HD13	1.94	0.50
7:S5:32:GLU:HA	7:S5:35:GLN:HB3	1.94	0.50
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.47	0.50
13:C1:124:THR:HB	13:C1:141:LYS:HB3	1.93	0.50
23:D1:27:ASP:HA	23:D1:29:HIS:CE1	2.46	0.50
36:1:2310:U:OP1	86:1:4038:OHX:N2	2.45	0.50
37:3:113:C:H2'	37:3:114:U:O4'	2.11	0.50
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	1.93	0.50
43:L6:147:ALA:HA	43:L6:150:LYS:HZ2	1.76	0.50
63:N7:50:PRO:HD3	63:N7:68:ILE:HG12	1.93	0.50
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.46	0.50
79:Q3:77:ALA:O	79:Q3:80:ARG:HB2	2.12	0.50
1:6:289:U:H2'	1:6:290:G:O4'	2.11	0.50
1:6:397:A:H5''	10:s8:51:GLY:H	1.76	0.50
1:6:765:G:N1	11:s9:146:PHE:HZ	2.10	0.50
1:6:879:G:H2'	1:6:880:C:C6	2.47	0.50
1:6:946:U:H2'	1:6:947:U:C6	2.47	0.50
1:6:1382:A:O2'	1:6:1383:G:H5''	2.12	0.50
8:s6:7:TYR:CE1	8:s6:9:VAL:HB	2.47	0.50
13:c1:75:VAL:HG23	13:c1:121:ASP:O	2.12	0.50
20:c8:91:ASP:OD2	20:c8:92:ILE:N	2.45	0.50
26:d4:15:ASN:OD1	26:d4:18:LEU:N	2.30	0.50
34:sR:38:ARG:HA	34:sR:67:ILE:HG23	1.94	0.50
36:5:60:A:H2'	36:5:61:A:H8	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:181:U:H1'	36:5:236:G:H22	1.77	0.50
36:5:776:U:H5	36:5:2719:U:O2	1.95	0.50
36:5:1638:A:N1	36:5:1736:G:O2'	2.38	0.50
36:5:1643:A:H4'	36:5:1822:C:H5'	1.94	0.50
39:12:18:SER:OG	39:12:23:ARG:NH2	2.44	0.50
39:12:177:LYS:NZ	79:q3:33:GLN:OE1	2.40	0.50
39:12:193:ARG:O	39:12:195:SER:N	2.45	0.50
40:13:199:PHE:C	40:13:201:LYS:H	2.20	0.50
45:l8:152:LEU:HB3	45:l8:180:VAL:HG11	1.94	0.50
67:o1:33:VAL:HG13	67:o1:51:LEU:HD11	1.92	0.50
78:q2:65:THR:OG1	78:q2:87:ARG:HD3	2.11	0.50
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.12	0.50
1:2:1297:G:N2	1:2:1300:A:OP2	2.41	0.50
2:S0:197:ILE:H	2:S0:197:ILE:HD12	1.77	0.50
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.47	0.50
18:C6:47:LYS:HZ1	18:C6:114:ARG:HD2	1.75	0.50
21:C9:77:ASN:OD1	21:C9:101:ASN:ND2	2.40	0.50
30:D8:32:PHE:CE2	30:D8:38:ARG:HB3	2.46	0.50
36:1:84:U:OP1	36:1:701:G:H5''	2.11	0.50
36:1:305:U:C5	36:1:2776:C:H1'	2.46	0.50
36:1:343:U:O2	41:L4:95:ARG:HD2	2.12	0.50
36:1:2683:U:H2'	36:1:2684:C:C6	2.47	0.50
49:M3:60:ALA:HB3	49:M3:65:TYR:O	2.11	0.50
63:N7:121:ARG:HG3	63:N7:126:LYS:HB2	1.93	0.50
1:6:564:G:C2	1:6:578:U:H5''	2.46	0.50
1:6:846:G:H2'	1:6:847:A:C8	2.47	0.50
6:s4:103:TYR:CE1	6:s4:189:LEU:HD11	2.46	0.50
6:s4:248:ILE:HB	11:s9:71:PHE:CE2	2.46	0.50
7:s5:94:THR:HG22	7:s5:114:ILE:CG1	2.38	0.50
7:s5:142:PRO:HG2	7:s5:170:GLN:OE1	2.12	0.50
10:s8:184:LEU:HB3	10:s8:189:LEU:HB2	1.92	0.50
26:d4:58:PHE:HE2	26:d4:72:PHE:HB3	1.76	0.50
36:5:754:G:H2'	36:5:755:A:H8	1.77	0.50
36:5:1301:A:H8	36:5:1301:A:OP1	1.95	0.50
36:5:1947:G:H5'	55:m9:134:HIS:HD2	1.77	0.50
36:5:1949:G:OP1	55:m9:104:ARG:NH1	2.45	0.50
36:5:2202:C:H2'	36:5:2203:U:O4'	2.11	0.50
36:5:2440:G:O2'	36:5:2441:A:OP1	2.27	0.50
36:5:2752:U:O2	86:5:4159:OHX:N3	2.44	0.50
36:5:3274:A:H3'	36:5:3275:U:C5'	2.38	0.50
41:l4:42:VAL:O	41:l4:44:LYS:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:63:GLU:HG2	41:l4:64:SER:N	2.25	0.50
41:l4:144:LYS:H	41:l4:144:LYS:HD2	1.77	0.50
41:l4:300:ARG:HB2	41:l4:301:PRO:HD2	1.94	0.50
49:m3:154:VAL:HG23	49:m3:156:ALA:H	1.77	0.50
56:n0:27:MET:HE1	56:n0:44:PHE:HB2	1.93	0.50
64:n8:75:LEU:HB3	64:n8:118:ILE:HG23	1.93	0.50
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.12	0.50
1:2:57:G:O6	86:2:2013:OHX:N3	2.44	0.50
1:2:778:G:N7	1:2:783:G:N1	2.60	0.50
10:S8:21:PHE:CZ	10:S8:22:ARG:HD3	2.47	0.50
29:D7:56:CYS:HB2	29:D7:61:THR:HG22	1.93	0.50
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	1.93	0.50
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.93	0.50
36:1:2898:G:H5''	36:1:2899:C:H5'	1.93	0.50
37:3:11:A:H4'	37:3:13:A:C8	2.47	0.50
38:4:58:G:O6	73:O7:63:ARG:NH2	2.37	0.50
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.11	0.50
47:M0:36:LEU:HD22	47:M0:73:ASN:CG	2.37	0.50
52:M6:181:ALA:O	52:M6:184:THR:HG23	2.11	0.50
53:M7:29:THR:HG22	53:M7:87:SER:OG	2.11	0.50
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.37	0.50
70:O4:89:ILE:HG22	70:O4:90:ILE:HD13	1.94	0.50
1:6:649:U:H3	1:6:685:A:H61	1.60	0.50
1:6:678:A:H2'	1:6:679:U:O4'	2.12	0.50
1:6:1699:G:H2'	1:6:1700:C:H5'	1.94	0.50
7:s5:143:ARG:NH1	7:s5:218:GLU:OE2	2.43	0.50
36:5:1232:C:C5	36:5:1261:G:H2'	2.46	0.50
36:5:1629:U:O4	63:n7:111:LYS:HD3	2.12	0.50
36:5:2131:A:N6	79:q3:18:TYR:HA	2.27	0.50
36:5:2523:A:C5	45:l8:51:LYS:HG3	2.46	0.50
36:5:3003:G:P	40:l3:26:ARG:HH22	2.35	0.50
36:5:3299:A:H61	36:5:3315:G:H1	1.59	0.50
37:7:67:G:H5'	42:l5:10:SER:OG	2.10	0.50
40:l3:117:ARG:NH2	40:l3:176:ALA:O	2.37	0.50
41:l4:205:PRO:HB3	41:l4:247:PHE:CD2	2.46	0.50
47:m0:42:THR:HG23	47:m0:45:GLU:HG3	1.93	0.50
47:m0:50:VAL:HG12	47:m0:152:LEU:HD12	1.93	0.50
71:o5:54:VAL:O	71:o5:58:ILE:HG13	2.12	0.50
1:2:102:U:O4	1:2:360:A:H2'	2.12	0.50
1:2:104:A:O2'	86:2:2083:OHX:N6	2.44	0.50
1:2:1042:G:H2'	1:2:1043:A:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1238:A:H2'	1:2:1239:U:O4'	2.11	0.50
1:2:1398:U:H4'	1:2:1399:C:OP2	2.12	0.50
1:2:1433:G:H2'	1:2:1434:U:H6	1.77	0.50
1:2:1484:G:H21	1:2:1606:C:H1'	1.77	0.50
1:2:1523:G:N7	21:C9:68:ARG:NH1	2.60	0.50
1:2:1788:G:OP2	16:C4:132:ARG:NH1	2.42	0.50
3:S1:110:LEU:HA	3:S1:113:MET:HB2	1.94	0.50
9:S7:11:GLN:HG3	9:S7:12:ALA:H	1.76	0.50
12:C0:81:ASN:O	12:C0:81:ASN:ND2	2.45	0.50
19:C7:20:TYR:O	19:C7:24:LEU:HD12	2.12	0.50
35:SM:88:ARG:HG2	35:SM:91:THR:CG2	2.42	0.50
36:1:656:A:H2'	36:1:657:A:H8	1.75	0.50
36:1:1440:G:H2'	36:1:1441:G:C8	2.46	0.50
36:1:1674:G:N7	86:1:3844:OHX:N5	2.60	0.50
36:1:2768:U:H2'	36:1:2769:A:C8	2.47	0.50
42:L5:218:ARG:O	42:L5:221:GLU:N	2.45	0.50
60:N4:4:GLU:OE1	60:N4:4:GLU:N	2.45	0.50
74:O8:42:LYS:HG3	74:O8:55:VAL:HG22	1.94	0.50
75:O9:3:ALA:O	75:O9:4:GLN:HB2	2.12	0.50
1:6:526:A:N6	1:6:527:A:C6	2.80	0.50
3:s1:113:MET:HE3	3:s1:209:ASN:ND2	2.27	0.50
11:s9:133:HIS:CD2	11:s9:162:SER:HB2	2.45	0.50
17:c5:69:GLU:H	17:c5:69:GLU:CD	2.20	0.50
19:c7:24:LEU:HD23	19:c7:34:LEU:HD12	1.93	0.50
25:d3:23:ARG:O	25:d3:26:GLU:HB2	2.12	0.50
33:e1:86:THR:O	33:e1:87:THR:OG1	2.20	0.50
35:sM:58:GLU:OE1	35:sM:62:ARG:NH1	2.44	0.50
36:5:72:C:C2	36:5:74:G:H1'	2.46	0.50
36:5:1675:G:N7	86:5:3886:OHX:N4	2.59	0.50
36:5:1818:U:H2'	36:5:1819:U:O4'	2.11	0.50
36:5:2269:U:C5'	83:f:62:ILE:HD11	2.42	0.50
36:5:2533:G:H2'	36:5:2534:G:C8	2.47	0.50
36:5:2818:U:C5'	65:n9:2:ALA:HB2	2.42	0.50
40:l3:57:VAL:HG22	40:l3:73:VAL:HG12	1.93	0.50
40:l3:165:GLN:OE1	40:l3:167:ARG:NH2	2.45	0.50
42:l5:88:ILE:HD13	42:l5:239:ILE:HG22	1.93	0.50
50:m4:40:ASP:C	50:m4:42:LYS:H	2.20	0.50
50:m4:123:LEU:HD23	52:m6:190:VAL:HG13	1.93	0.50
1:2:978:A:H2'	1:2:979:A:O4'	2.11	0.49
1:2:1031:U:H4'	1:2:1032:G:OP2	2.12	0.49
6:S4:10:LYS:O	6:S4:12:LEU:N	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:72:HIS:O	18:C6:79:TYR:OH	2.29	0.49
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.93	0.49
23:D1:78:LEU:HD23	23:D1:78:LEU:H	1.78	0.49
36:1:213:A:OP1	62:N6:2:ALA:N	2.45	0.49
36:1:2790:A:O2'	86:1:3878:OHX:N1	2.44	0.49
36:1:3296:A:H62	40:L3:124:LYS:NZ	2.10	0.49
40:L3:3:HIS:O	40:L3:3:HIS:ND1	2.44	0.49
44:L7:140:SER:HB3	44:L7:237:ASN:ND2	2.25	0.49
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.12	0.49
51:M5:149:ASN:OD1	86:M5:304:OHX:N6	2.44	0.49
59:N3:93:LEU:HD23	59:N3:93:LEU:H	1.76	0.49
62:N6:35:LEU:HA	62:N6:106:ILE:HB	1.92	0.49
72:O6:51:SER:O	72:O6:54:GLU:N	2.42	0.49
1:6:109:G:O2'	1:6:796:A:N1	2.39	0.49
1:6:219:A:N6	1:6:843:U:C2	2.80	0.49
1:6:278:U:O2	60:n4:117:LYS:NZ	2.45	0.49
1:6:647:G:H22	1:6:687:G:H22	1.58	0.49
1:6:763:G:C6	1:6:764:U:C4	3.00	0.49
1:6:839:U:H2'	1:6:840:U:C6	2.47	0.49
1:6:868:G:H1	1:6:960:U:H3	1.59	0.49
1:6:1257:U:O2'	1:6:1258:U:O4'	2.30	0.49
1:6:1415:U:H5'	19:c7:3:ARG:HH22	1.77	0.49
7:s5:151:GLY:HA3	7:s5:155:ALA:HA	1.93	0.49
15:c3:91:LEU:HB3	15:c3:122:ILE:HG12	1.93	0.49
26:d4:121:THR:HG22	26:d4:123:LYS:HB2	1.93	0.49
36:5:651:G:C6	36:5:652:G:C6	3.00	0.49
36:5:937:G:OP2	64:n8:27:LYS:HB2	2.12	0.49
36:5:1064:A:H4'	36:5:1065:A:O5'	2.12	0.49
36:5:1080:A:P	42:l5:140:ARG:HH21	2.35	0.49
36:5:1121:U:C4	36:5:1122:U:C4	3.00	0.49
36:5:2228:A:H2'	36:5:2229:A:C8	2.47	0.49
36:5:3386:G:H5''	67:o1:10:ARG:HH21	1.76	0.49
39:l2:3:ARG:HG2	39:l2:4:VAL:N	2.26	0.49
40:l3:27:ALA:HB1	40:l3:218:ILE:HG22	1.94	0.49
41:l4:42:VAL:HG12	41:l4:236:LEU:HD21	1.94	0.49
43:l6:82:ARG:NH1	69:o3:105:SER:O	2.45	0.49
49:m3:48:PRO:HA	49:m3:137:GLN:HB2	1.94	0.49
51:m5:183:THR:O	51:m5:183:THR:OG1	2.25	0.49
78:q2:48:SER:O	86:q2:203:OHX:N3	2.44	0.49
1:2:1755:A:C8	25:D3:63:GLN:HG3	2.47	0.49
8:S6:63:MET:HE2	8:S6:106:LEU:HD22	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:80:MET:SD	17:C5:83:MET:HE2	2.52	0.49
18:C6:31:VAL:O	18:C6:33:GLY:N	2.45	0.49
21:C9:115:GLU:O	21:C9:117:SER:N	2.46	0.49
26:D4:84:LYS:HG3	26:D4:85:PHE:HD2	1.76	0.49
33:E1:100:LEU:C	33:E1:102:VAL:H	2.21	0.49
36:1:1207:G:N7	86:1:3956:OHX:N2	2.60	0.49
36:1:1472:U:H2'	36:1:1473:G:H8	1.77	0.49
36:1:2227:C:H2'	36:1:2228:A:O4'	2.12	0.49
36:1:2240:G:H2'	36:1:2241:U:O4'	2.11	0.49
36:1:2947:G:OP2	36:1:2947:G:H4'	2.12	0.49
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.13	0.49
41:L4:174:ALA:O	41:L4:176:SER:N	2.45	0.49
43:L6:170:LYS:HE2	69:O3:34:GLY:HA3	1.94	0.49
44:L7:173:LEU:HD21	44:L7:198:ALA:HA	1.94	0.49
53:M7:22:LEU:HB3	53:M7:90:PHE:CE2	2.47	0.49
54:M8:158:HIS:N	54:M8:186:VAL:HG12	2.23	0.49
56:N0:34:GLU:O	56:N0:38:LYS:HG3	2.11	0.49
1:6:44:U:H5	1:6:437:A:N1	2.09	0.49
1:6:151:G:N2	1:6:163:G:N2	2.60	0.49
1:6:483:A:H61	1:6:503:G:H1	1.59	0.49
1:6:992:A:OP1	1:6:1786:G:H5'	2.12	0.49
1:6:1533:C:H4'	1:6:1539:G:N1	2.27	0.49
2:s0:198:MET:SD	19:c7:88:VAL:HG23	2.51	0.49
11:s9:103:ASP:OD2	11:s9:103:ASP:N	2.45	0.49
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.47	0.49
26:d4:56:SER:O	26:d4:74:LEU:N	2.33	0.49
36:5:290:G:OP1	51:m5:98:LEU:HD13	2.12	0.49
36:5:638:C:H2'	36:5:639:G:C8	2.47	0.49
36:5:1118:C:O2'	36:5:1154:A:N1	2.40	0.49
36:5:2573:G:H3'	36:5:2574:G:H5''	1.94	0.49
36:5:3037:U:H2'	36:5:3038:U:H6	1.77	0.49
36:5:3074:G:OP1	86:5:4027:OHX:N4	2.44	0.49
36:5:3139:A:OP1	40:l3:274:SER:OG	2.29	0.49
36:5:3386:G:H5'	67:o1:10:ARG:HE	1.77	0.49
41:l4:126:ILE:HD11	41:l4:233:LEU:HD13	1.93	0.49
42:l5:86:TYR:CD1	42:l5:247:ILE:HG12	2.47	0.49
44:l7:110:ARG:HB2	44:l7:110:ARG:HH11	1.77	0.49
49:m3:162:ASN:O	49:m3:162:ASN:ND2	2.43	0.49
63:n7:25:ILE:HG23	63:n7:41:ALA:HB1	1.94	0.49
72:o6:79:SER:OG	72:o6:81:THR:HG22	2.13	0.49
1:2:156:A:H2'	1:2:157:A:O4'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:741:C:O2	9:S7:107:ARG:NH1	2.45	0.49
1:2:798:C:H2'	1:2:799:A:C8	2.48	0.49
1:2:1004:U:O4	86:1:3881:OHX:N1	2.45	0.49
1:2:1165:G:O6	1:2:1166:A:N6	2.45	0.49
1:2:1327:C:O2'	5:S3:159:HIS:HD2	1.95	0.49
1:2:1413:U:H4'	1:2:1414:U:OP2	2.11	0.49
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.92	0.49
6:S4:49:ARG:HH11	6:S4:50:ASN:HD21	1.60	0.49
6:S4:246:LEU:HB2	6:S4:251:GLU:HG2	1.94	0.49
19:C7:85:VAL:HG12	19:C7:87:GLU:H	1.78	0.49
21:C9:125:SER:O	21:C9:129:GLN:HG3	2.12	0.49
23:D1:5:LYS:HD3	23:D1:5:LYS:H	1.76	0.49
34:SR:156:VAL:HA	34:SR:169:ILE:HG22	1.94	0.49
36:1:374:A:HO2'	36:1:376:G:H8	1.60	0.49
36:1:541:U:O4	86:1:3951:OHX:N2	2.46	0.49
36:1:783:A:OP2	86:1:3997:OHX:N3	2.45	0.49
36:1:1257:C:H42	36:1:1261:G:H22	1.59	0.49
36:1:1472:U:H2'	36:1:1473:G:C8	2.48	0.49
36:1:2618:G:OP1	47:M0:116:ARG:HD3	2.12	0.49
36:1:2635:A:H4'	36:1:2636:A:O5'	2.12	0.49
37:3:112:G:H2'	37:3:113:C:C6	2.47	0.49
41:L4:315:LYS:HD3	41:L4:320:ASN:ND2	2.27	0.49
44:L7:221:LYS:HB2	44:L7:227:GLY:HA3	1.95	0.49
64:N8:118:ILE:HD13	64:N8:118:ILE:H	1.77	0.49
1:6:381:C:H5''	6:s4:10:LYS:HD3	1.93	0.49
1:6:913:G:H3'	1:6:914:G:C5'	2.42	0.49
1:6:1488:G:H3'	1:6:1515:A:H61	1.77	0.49
1:6:1738:U:H2'	1:6:1739:C:C6	2.48	0.49
2:s0:108:THR:O	2:s0:109:ASN:HB3	2.13	0.49
4:s2:85:PRO:HG3	4:s2:98:PHE:HD1	1.77	0.49
5:s3:164:VAL:O	5:s3:168:ILE:HG13	2.12	0.49
11:s9:88:GLU:O	11:s9:91:LYS:HE3	2.12	0.49
25:d3:23:ARG:HD2	25:d3:26:GLU:OE1	2.13	0.49
32:e0:33:ARG:HB3	32:e0:33:ARG:NH1	2.28	0.49
33:e1:106:TYR:HE2	33:e1:116:LYS:HB3	1.77	0.49
36:5:3139:A:O3'	40:l3:20:LYS:HE3	2.11	0.49
36:5:3228:C:H4'	36:5:3229:G:O5'	2.12	0.49
49:m3:119:TYR:HD1	49:m3:145:PHE:CE2	2.30	0.49
59:n3:79:VAL:HG23	59:n3:80:ARG:HG3	1.94	0.49
63:n7:44:ALA:HB2	63:n7:72:ILE:HG22	1.93	0.49
68:o2:64:LYS:O	68:o2:65:PHE:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:442:C:O2'	1:2:525:A:N1	2.33	0.49
1:2:1410:A:H2'	1:2:1411:A:O4'	2.12	0.49
1:2:1417:A:OP1	86:2:2039:OHX:N5	2.46	0.49
1:2:1514:U:O2'	5:S3:5:ILE:O	2.28	0.49
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.77	0.49
14:C2:136:ILE:HA	14:C2:139:HIS:HB3	1.93	0.49
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.45	0.49
36:1:269:G:H5''	51:M5:14:LYS:NZ	2.28	0.49
36:1:379:C:H2'	36:1:380:U:H6	1.77	0.49
36:1:435:C:H2'	36:1:436:A:C8	2.47	0.49
36:1:1383:G:O6	86:1:3776:OHX:N4	2.45	0.49
36:1:1631:C:H5''	36:1:1632:A:H5''	1.95	0.49
86:1:4100:OHX:N3	52:M6:58:LEU:O	2.46	0.49
38:4:139:U:H2'	38:4:140:G:C8	2.47	0.49
41:L4:60:THR:HG22	41:L4:62:ALA:H	1.76	0.49
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.44	0.49
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.94	0.49
67:O1:13:THR:HG23	67:O1:72:ARG:HH11	1.76	0.49
77:Q1:1:MET:HE2	77:Q1:5:TRP:HB2	1.94	0.49
1:6:555:A:H2'	1:6:556:A:C8	2.47	0.49
1:6:1157:A:OP2	86:6:2109:OHX:N1	2.45	0.49
1:6:1690:G:H1	1:6:1711:C:N4	2.08	0.49
3:s1:173:THR:O	3:s1:177:GLN:N	2.39	0.49
23:d1:64:GLU:OE2	29:d7:2:VAL:HG22	2.12	0.49
24:d2:77:PRO:HD2	24:d2:79:PHE:CE2	2.47	0.49
29:d7:33:LEU:HB3	29:d7:79:PHE:HB2	1.93	0.49
36:5:353:G:N7	73:o7:55:ARG:HD3	2.28	0.49
36:5:879:U:O2	36:5:2357:A:H1'	2.12	0.49
36:5:2836:C:H4'	47:m0:157:TYR:CD1	2.47	0.49
47:m0:91:VAL:HG22	47:m0:127:ALA:HB1	1.95	0.49
50:m4:38:ILE:HD13	56:n0:150:PHE:HE2	1.77	0.49
56:n0:27:MET:HG3	57:n1:151:LEU:O	2.11	0.49
63:n7:115:LYS:NZ	63:n7:119:GLU:OE2	2.45	0.49
1:2:293:U:OP2	86:2:2105:OHX:N1	2.46	0.49
1:2:733:A:H4'	1:2:734:A:C5	2.47	0.49
1:2:1458:G:H5''	1:2:1459:C:OP2	2.13	0.49
6:S4:232:GLY:O	6:S4:234:PRO:HD3	2.13	0.49
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.46	0.49
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.11	0.49
36:1:29:C:H4'	36:1:62:A:H4'	1.93	0.49
36:1:108:A:O2'	36:1:109:A:H2'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1295:G:OP1	56:N0:83:SER:HB2	2.13	0.49
36:1:2376:G:H2'	36:1:2377:G:C8	2.46	0.49
41:L4:129:THR:HG21	41:L4:238:LEU:HD23	1.94	0.49
42:L5:108:ARG:O	42:L5:111:GLN:HB3	2.12	0.49
49:M3:189:GLU:O	49:M3:192:GLU:HG2	2.13	0.49
50:M4:114:ASP:HA	50:M4:117:ARG:CZ	2.43	0.49
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.12	0.49
72:O6:45:ARG:NH2	72:O6:54:GLU:OE1	2.45	0.49
1:6:639:U:OP1	9:s7:117:THR:HG23	2.12	0.49
1:6:660:G:H2'	1:6:661:A:H4'	1.94	0.49
1:6:1238:A:C6	1:6:1239:U:H1'	2.47	0.49
4:s2:185:LYS:O	4:s2:189:GLN:HG3	2.13	0.49
10:s8:152:ILE:H	10:s8:152:ILE:HD13	1.76	0.49
12:c0:54:TYR:CE2	12:c0:75:TYR:HB2	2.47	0.49
22:d0:44:ASN:ND2	22:d0:103:ILE:HD11	2.28	0.49
28:d6:41:ILE:HA	28:d6:67:THR:O	2.13	0.49
36:5:676:G:H3'	54:m8:107:THR:HG21	1.93	0.49
36:5:3134:A:OP1	86:5:3842:OHX:N5	2.45	0.49
43:l6:30:LEU:HD22	43:l6:34:LEU:HD12	1.94	0.49
51:m5:11:GLN:HE21	51:m5:44:ARG:NH1	2.10	0.49
61:n5:46:TYR:HB3	71:o5:75:TYR:HB3	1.95	0.49
62:n6:73:VAL:HA	62:n6:80:VAL:HG22	1.93	0.49
64:n8:73:LEU:HB3	64:n8:112:ILE:HD13	1.94	0.49
68:o2:78:ASN:HA	68:o2:108:ILE:HD11	1.93	0.49
81:p0:105:VAL:HG23	81:p0:184:GLY:N	2.27	0.49
1:2:116:U:H2'	1:2:117:U:C6	2.48	0.49
1:2:1244:A:O2'	1:2:1245:G:OP1	2.30	0.49
5:S3:70:THR:HG23	5:S3:86:LEU:HD13	1.93	0.49
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.12	0.49
9:S7:46:ILE:HG12	9:S7:60:ILE:HA	1.94	0.49
12:C0:38:LYS:HD2	12:C0:41:TYR:CZ	2.48	0.49
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.12	0.49
18:C6:82:ARG:HH12	18:C6:114:ARG:HB3	1.77	0.49
20:C8:29:VAL:O	20:C8:43:SER:OG	2.25	0.49
36:1:1347:U:H4'	41:L4:305:ALA:HB2	1.94	0.49
36:1:1452:A:N3	36:1:2346:C:O2'	2.42	0.49
36:1:1585:C:H2'	36:1:1586:G:H8	1.77	0.49
36:1:2514:U:OP1	36:1:2514:U:H6	1.96	0.49
36:1:3317:U:O2'	86:1:3919:OHX:N3	2.45	0.49
36:1:3364:C:OP1	86:1:3825:OHX:N5	2.46	0.49
38:4:81:U:H1'	38:4:82:U:H5''	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:116:VAL:HG13	39:L2:126:LEU:HB2	1.95	0.49
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.93	0.49
43:L6:147:ALA:HA	43:L6:150:LYS:NZ	2.28	0.49
44:L7:177:GLY:O	44:L7:179:LEU:HD13	2.13	0.49
48:M1:92:ARG:HB3	48:M1:94:ARG:HG2	1.94	0.49
50:M4:27:GLN:CD	50:M4:27:GLN:H	2.21	0.49
1:6:83:G:OP2	86:6:2064:OHX:N4	2.45	0.49
1:6:224:C:H2'	1:6:225:A:C8	2.47	0.49
1:6:334:G:O6	10:s8:5:ARG:NH2	2.45	0.49
1:6:1167:G:H1	1:6:1578:U:H3	1.59	0.49
1:6:1274:C:H4'	1:6:1275:A:O5'	2.13	0.49
1:6:1514:U:H5''	1:6:1515:A:N3	2.28	0.49
1:6:1590:G:H2'	1:6:1591:C:H6	1.78	0.49
2:s0:56:LYS:HE2	23:d1:70:ASN:HD21	1.77	0.49
4:s2:139:ILE:HD11	4:s2:191:ALA:HB1	1.93	0.49
6:s4:125:LYS:NZ	6:s4:157:ASN:HA	2.27	0.49
16:c4:31:THR:OG1	16:c4:32:ASP:N	2.44	0.49
18:c6:46:PHE:CD2	18:c6:49:TYR:HD2	2.31	0.49
34:sR:256:THR:N	34:sR:259:GLY:O	2.46	0.49
36:5:1632:A:H2'	36:5:1633:C:C6	2.47	0.49
36:5:2207:A:N6	36:5:2236:G:H1	2.10	0.49
36:5:2523:A:O2'	36:5:2587:U:H1'	2.13	0.49
36:5:2530:G:H2'	36:5:2531:C:H5''	1.94	0.49
41:l4:39:PHE:CD2	41:l4:242:ALA:HB2	2.47	0.49
41:l4:118:LYS:O	41:l4:122:THR:HG23	2.13	0.49
41:l4:191:LYS:HB2	41:l4:194:TYR:CZ	2.48	0.49
43:l6:131:LYS:HD3	43:l6:132:ALA:N	2.28	0.49
44:l7:110:ARG:NH2	44:l7:206:LYS:HE2	2.28	0.49
47:m0:12:GLN:HA	47:m0:59:GLN:OE1	2.12	0.49
47:m0:113:GLN:HG2	86:m0:302:OHX:N4	2.27	0.49
67:o1:15:ASN:O	67:o1:19:ARG:HD2	2.13	0.49
71:o5:21:LEU:HB2	71:o5:54:VAL:HG11	1.95	0.49
81:p0:40:GLU:OE2	81:p0:104:ARG:NE	2.45	0.49
1:2:484:C:H42	1:2:503:G:H22	1.61	0.49
1:2:1171:A:H2'	1:2:1172:G:C8	2.47	0.49
1:2:1251:U:H5'	33:E1:135:HIS:HD2	1.78	0.49
1:2:1657:U:C4	86:2:2058:OHX:N6	2.81	0.49
5:S3:35:SER:O	5:S3:35:SER:OG	2.29	0.49
9:S7:6:ALA:HB1	9:S7:9:LEU:HD12	1.95	0.49
12:C0:77:ARG:HA	12:C0:82:LEU:HD11	1.93	0.49
13:C1:101:GLU:HB3	25:D3:12:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:21:ALA:HB1	16:C4:26:THR:HG22	1.95	0.49
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.78	0.49
36:1:1295:G:H2'	36:1:1296:C:C6	2.48	0.49
36:1:1597:C:H2'	36:1:1598:G:C8	2.48	0.49
36:1:3010:U:O2'	40:L3:13:HIS:HE1	1.95	0.49
36:1:3011:A:C8	40:L3:13:HIS:CE1	3.00	0.49
38:4:85:G:O6	62:N6:112:ASP:HB3	2.13	0.49
41:L4:3:ARG:NE	41:L4:22:LEU:O	2.39	0.49
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.13	0.49
44:L7:169:ILE:HD12	44:L7:181:ILE:HA	1.94	0.49
48:M1:166:LYS:C	48:M1:168:ASP:H	2.20	0.49
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.13	0.49
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.12	0.49
54:M8:81:VAL:HG23	54:M8:101:VAL:HG13	1.94	0.49
66:O0:43:ILE:HG22	66:O0:70:PHE:HB2	1.95	0.49
68:O2:16:LYS:HD3	68:O2:18:LYS:HG2	1.95	0.49
70:O4:39:ALA:HB1	70:O4:57:LEU:O	2.12	0.49
1:6:994:G:H2'	1:6:995:A:O4'	2.13	0.49
6:s4:137:PRO:HG2	6:s4:150:PRO:HD2	1.93	0.49
8:s6:200:ALA:O	8:s6:203:GLU:HB2	2.13	0.49
12:c0:3:MET:HE1	12:c0:45:ALA:HB2	1.95	0.49
18:c6:6:SER:HA	18:c6:23:LYS:HA	1.95	0.49
22:d0:23:ARG:HB3	22:d0:117:VAL:HB	1.95	0.49
24:d2:23:ARG:HA	24:d2:65:LEU:HB2	1.93	0.49
24:d2:103:ILE:HG22	24:d2:112:ASP:HA	1.94	0.49
34:sR:32:LEU:HD11	34:sR:44:SER:HB2	1.95	0.49
36:5:14:U:O2	61:n5:42:ARG:HD2	2.13	0.49
40:l3:47:LEU:HG	40:l3:335:ILE:HD11	1.94	0.49
42:l5:106:ALA:O	42:l5:110:LEU:HD22	2.12	0.49
44:l7:132:PRO:HA	44:l7:229:PHE:CG	2.48	0.49
71:o5:21:LEU:HD21	71:o5:25:LYS:HE3	1.95	0.49
1:2:122:U:O4	86:2:2016:OHX:N4	2.45	0.49
1:2:990:C:H2'	1:2:991:G:O4'	2.13	0.49
5:S3:168:ILE:HD13	5:S3:187:LYS:HE2	1.94	0.49
19:C7:66:VAL:HB	19:C7:69:ILE:HD11	1.93	0.49
20:C8:91:ASP:OD1	20:C8:92:ILE:N	2.45	0.49
20:C8:126:ARG:HG3	20:C8:131:LEU:HB2	1.94	0.49
36:1:824:C:H2'	36:1:825:U:H6	1.78	0.49
36:1:1269:U:N3	36:1:1271:A:H5''	2.28	0.49
36:1:2354:C:OP1	53:M7:86:LYS:NZ	2.42	0.49
36:1:2984:C:H2'	36:1:2985:C:C6	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3396:U:O2	86:1:4055:OHX:N3	2.45	0.49
40:L3:122:TRP:CE2	40:L3:127:LYS:HE3	2.48	0.49
46:L9:13:PRO:HD2	46:L9:16:VAL:HG22	1.93	0.49
50:M4:20:VAL:O	50:M4:66:THR:OG1	2.24	0.49
54:M8:64:VAL:HG21	54:M8:113:LYS:HD2	1.95	0.49
59:N3:84:SER:HA	59:N3:94:TYR:HB3	1.94	0.49
68:O2:122:PRO:C	68:O2:124:GLY:H	2.21	0.49
74:O8:27:ILE:HD13	74:O8:41:THR:HB	1.94	0.49
79:Q3:83:ILE:HG22	79:Q3:87:ARG:HH12	1.78	0.49
1:6:85:A:H4'	26:d4:121:THR:H	1.78	0.49
1:6:459:G:OP1	26:d4:109:LYS:NZ	2.40	0.49
1:6:840:U:H2'	1:6:841:U:H6	1.77	0.49
1:6:1042:G:H2'	1:6:1043:A:H8	1.78	0.49
1:6:1244:A:N3	1:6:1244:A:H3'	2.28	0.49
4:s2:59:HIS:CD2	4:s2:238:SER:HA	2.48	0.49
5:s3:195:SER:HB2	5:s3:200:LYS:HG2	1.94	0.49
10:s8:82:VAL:HG12	10:s8:101:ILE:O	2.12	0.49
11:s9:132:ARG:O	11:s9:134:ILE:N	2.39	0.49
11:s9:151:ASP:OD1	11:s9:151:ASP:N	2.38	0.49
16:c4:58:TYR:CE1	16:c4:62:LEU:HD13	2.48	0.49
24:d2:55:ASP:C	24:d2:57:ARG:H	2.19	0.49
36:5:221:A:H61	62:n6:103:LYS:HE3	1.78	0.49
36:5:270:U:O2'	36:5:318:A:H1'	2.13	0.49
36:5:683:U:H2'	36:5:684:G:O4'	2.13	0.49
36:5:790:U:H5'	41:l4:112:LYS:HG2	1.94	0.49
36:5:2207:A:H2'	36:5:2208:A:O4'	2.12	0.49
36:5:2352:A:OP1	53:m7:82:ARG:HB3	2.12	0.49
36:5:2698:G:O2'	57:n1:12:ARG:HG3	2.13	0.49
36:5:3317:U:H1'	86:5:4048:OHX:N6	2.28	0.49
39:l2:224:THR:HA	39:l2:237:LEU:O	2.12	0.49
40:l3:142:ALA:O	40:l3:145:GLU:N	2.45	0.49
48:m1:95:ASN:OD1	48:m1:95:ASN:N	2.45	0.49
1:2:17:C:O2'	1:2:1137:A:N1	2.43	0.49
1:2:130:C:HO2'	1:2:131:C:P	2.35	0.49
1:2:567:A:P	32:E0:10:ARG:HH21	2.36	0.49
1:2:851:U:OP1	55:M9:172:ARG:NH1	2.46	0.49
1:2:1002:G:H2'	1:2:1003:A:H5'	1.94	0.49
1:2:1388:A:C5	1:2:1411:A:C6	3.00	0.49
1:2:1731:A:H5''	1:2:1732:A:OP2	2.13	0.49
2:S0:119:ARG:NH2	4:S2:238:SER:OG	2.46	0.49
4:S2:98:PHE:CE1	35:SM:116:GLU:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:240:LYS:H	6:S4:240:LYS:CE	2.25	0.49
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.95	0.49
13:C1:100:TYR:O	25:D3:10:ASN:HA	2.12	0.49
22:D0:46:GLU:HB2	22:D0:52:LYS:HZ3	1.77	0.49
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	1.94	0.49
28:D6:18:VAL:HG23	28:D6:19:LYS:H	1.77	0.49
36:1:159:A:H61	36:1:262:U:H3	1.61	0.49
36:1:899:U:O4	86:1:3834:OHX:N1	2.46	0.49
36:1:1362:G:H1'	44:L7:159:GLN:OE1	2.13	0.49
36:1:2392:C:HO2'	40:L3:266:ARG:NH2	2.10	0.49
36:1:2424:A:H1'	51:M5:77:LYS:O	2.12	0.49
36:1:2522:G:H2'	36:1:2522:G:N3	2.27	0.49
36:1:2816:G:O6	86:1:4076:OHX:N3	2.46	0.49
37:3:7:G:O3'	42:L5:33:ARG:NH2	2.45	0.49
39:L2:114:SER:O	39:L2:116:VAL:N	2.46	0.49
43:L6:137:ASP:O	43:L6:141:VAL:HG23	2.13	0.49
46:L9:83:THR:OG1	46:L9:84:LYS:N	2.45	0.49
1:6:1395:G:H1	1:6:1403:C:H42	1.61	0.49
2:s0:88:LYS:O	2:s0:92:HIS:ND1	2.42	0.49
4:s2:104:VAL:HG22	4:s2:132:ALA:HB1	1.95	0.49
5:s3:209:ILE:HG22	19:c7:38:ILE:O	2.12	0.49
6:s4:112:HIS:ND1	6:s4:239:PRO:HA	2.28	0.49
9:s7:141:ARG:HG2	24:d2:51:GLU:HG3	1.95	0.49
14:c2:83:GLU:C	14:c2:85:LYS:H	2.20	0.49
17:c5:108:ARG:HB2	17:c5:111:MET:HE3	1.94	0.49
18:c6:89:LEU:HG	18:c6:105:LEU:HD23	1.94	0.49
20:c8:30:TYR:HE2	20:c8:40:ARG:HH11	1.61	0.49
33:e1:108:VAL:HG12	33:e1:114:VAL:HG13	1.93	0.49
34:sR:249:ARG:NH2	34:sR:315:VAL:HG11	2.27	0.49
36:5:151:A:O2'	36:5:152:U:OP1	2.28	0.49
36:5:202:G:N7	86:5:3902:OHX:N5	2.61	0.49
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.45	0.49
36:5:1087:G:O6	86:5:4019:OHX:N3	2.45	0.49
36:5:1180:A:OP1	69:o3:77:ASN:HB2	2.13	0.49
36:5:1540:U:H2'	36:5:1541:G:H8	1.78	0.49
36:5:1925:U:O2	79:q3:19:GLY:HA2	2.13	0.49
36:5:2317:A:OP2	86:5:4103:OHX:N2	2.44	0.49
36:5:2665:U:H4'	36:5:2666:C:OP1	2.12	0.49
36:5:2765:C:O3'	78:q2:39:GLY:HA3	2.12	0.49
39:l2:70:ARG:NH1	39:l2:72:ARG:HH21	2.11	0.49
42:l5:85:ARG:NH1	42:l5:254:LYS:H	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:184:ASP:HB3	42:l5:187:THR:OG1	2.13	0.49
42:l5:204:VAL:O	42:l5:208:MET:HB2	2.13	0.49
1:2:273:G:H1	1:2:283:U:H3	1.61	0.49
1:2:474:A:OP2	11:S9:44:ARG:NH1	2.42	0.49
1:2:502:U:H2'	1:2:503:G:O4'	2.13	0.49
1:2:538:A:H5'	1:2:543:C:H42	1.78	0.49
1:2:563:U:C4	1:2:564:G:C6	3.01	0.49
1:2:901:G:H22	16:C4:54:GLU:CD	2.19	0.49
2:S0:25:GLY:HA2	2:S0:48:ILE:HD11	1.94	0.49
3:S1:105:PHE:HE1	3:S1:113:MET:HE1	1.78	0.49
5:S3:53:THR:HG22	5:S3:91:VAL:HG11	1.95	0.49
10:S8:46:VAL:HG13	10:S8:54:LYS:HB3	1.95	0.49
11:S9:59:LEU:HA	11:S9:62:ARG:HG3	1.94	0.49
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.95	0.49
24:D2:76:SER:HB3	24:D2:77:PRO:HD3	1.94	0.49
28:D6:84:VAL:HG13	28:D6:85:ARG:N	2.26	0.49
36:1:194:U:H2'	36:1:195:U:C6	2.44	0.49
36:1:764:U:O4	86:1:3858:OHX:N5	2.45	0.49
36:1:1000:C:H42	36:1:1046:A:H62	1.60	0.49
36:1:1009:A:OP2	86:1:3986:OHX:N1	2.46	0.49
36:1:1022:U:H2'	36:1:1023:C:O4'	2.12	0.49
36:1:2203:U:H2'	36:1:2204:C:H6	1.78	0.49
36:1:2674:A:H5''	48:M1:105:GLY:HA3	1.95	0.49
36:1:3308:C:O2	53:M7:69:ARG:HB2	2.13	0.49
53:M7:62:ARG:O	53:M7:64:ASN:N	2.45	0.49
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.94	0.49
67:O1:31:ARG:NH1	67:O1:35:GLU:OE1	2.46	0.49
67:O1:90:PHE:HD2	67:O1:91:SER:O	1.95	0.49
1:6:955:A:OP1	15:c3:3:ARG:NH1	2.45	0.49
6:s4:11:ARG:NH2	6:s4:27:TYR:O	2.46	0.49
6:s4:11:ARG:NH1	6:s4:20:LEU:HB3	2.28	0.49
6:s4:105:VAL:HG22	6:s4:243:GLY:HA2	1.95	0.49
9:s7:74:GLN:HE22	9:s7:92:PHE:HB2	1.77	0.49
25:d3:42:PRO:HA	25:d3:81:LYS:HD2	1.95	0.49
34:sR:19:TRP:C	34:sR:37:SER:HG	2.20	0.49
36:5:44:U:OP1	51:m5:84:PRO:HD2	2.13	0.49
36:5:314:U:H2'	36:5:315:C:C6	2.48	0.49
36:5:380:U:H2'	36:5:381:U:C6	2.48	0.49
36:5:1307:G:H5''	52:m6:60:LYS:HE2	1.95	0.49
36:5:1915:A:H2'	36:5:1916:U:C6	2.48	0.49
40:l3:92:TYR:CE2	40:l3:101:SER:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:73:ASN:O	47:m0:76:MET:N	2.46	0.49
48:m1:33:ALA:HB2	48:m1:123:PHE:CE1	2.48	0.49
51:m5:172:ARG:HB3	51:m5:174:ILE:HG12	1.95	0.49
55:m9:35:ALA:O	55:m9:37:SER:N	2.41	0.49
68:o2:11:LYS:O	68:o2:13:HIS:N	2.40	0.49
72:o6:80:PHE:O	72:o6:83:ALA:HB3	2.13	0.49
73:o7:16:HIS:O	73:o7:25:ARG:HD3	2.13	0.49
74:o8:36:LYS:HA	74:o8:37:PRO:HD3	1.67	0.49
1:2:307:G:OP1	13:C1:90:TYR:OH	2.29	0.48
1:2:1654:G:H2'	1:2:1745:G:N2	2.27	0.48
2:S0:110:TYR:HB2	4:S2:38:VAL:HG11	1.95	0.48
5:S3:178:ARG:H	5:S3:178:ARG:NE	2.08	0.48
21:C9:45:MET:HE3	21:C9:46:PRO:HD2	1.95	0.48
36:1:602:A:H2'	36:1:603:A:C8	2.48	0.48
36:1:718:G:C2	36:1:721:G:H1'	2.47	0.48
36:1:848:A:H8	36:1:848:A:O5'	1.96	0.48
36:1:1192:C:N4	86:1:3945:OHX:N3	2.60	0.48
36:1:2218:G:H2'	36:1:2219:A:C8	2.47	0.48
36:1:3133:C:H2'	36:1:3134:A:O4'	2.12	0.48
37:3:48:U:O4	42:L5:58:LYS:HE2	2.13	0.48
37:3:93:C:O2'	37:3:94:C:H5'	2.13	0.48
41:L4:351:PRO:HA	44:L7:71:ALA:HA	1.95	0.48
50:M4:113:THR:HB	50:M4:116:GLU:H	1.78	0.48
62:N6:60:ARG:HG3	62:N6:103:LYS:HD2	1.94	0.48
1:6:163:G:H8	1:6:163:G:O5'	1.95	0.48
1:6:354:C:H5''	10:s8:16:ALA:HB2	1.94	0.48
1:6:686:C:H2'	1:6:687:G:C8	2.48	0.48
1:6:1003:A:H4'	1:6:1004:U:O5'	2.13	0.48
4:s2:187:LEU:HD21	4:s2:218:ILE:HD11	1.94	0.48
5:s3:195:SER:O	5:s3:196:ARG:HB3	2.13	0.48
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.93	0.48
10:s8:97:THR:OG1	10:s8:98:LYS:O	2.29	0.48
17:c5:111:MET:HG2	20:c8:119:ILE:HD11	1.94	0.48
36:5:750:G:C2	36:5:751:A:C8	3.01	0.48
36:5:997:A:O2'	37:7:79:A:N3	2.46	0.48
36:5:1098:A:H4'	57:n1:130:ARG:O	2.12	0.48
36:5:1122:U:O4	86:5:4056:OHX:N6	2.46	0.48
36:5:1445:U:H5''	36:5:1446:A:OP2	2.13	0.48
36:5:2581:U:H2'	36:5:2582:C:H6	1.78	0.48
36:5:2714:G:N3	36:5:2714:G:H5''	2.28	0.48
36:5:3197:G:H2'	36:5:3198:U:H5''	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:46:PHE:CE2	40:l3:205:VAL:HG22	2.47	0.48
40:l3:219:ALA:HB2	40:l3:336:VAL:HG22	1.95	0.48
42:l5:136:GLU:O	42:l5:137:ASP:HB2	2.12	0.48
47:m0:172:GLY:C	47:m0:174:THR:H	2.21	0.48
49:m3:133:PRO:O	49:m3:135:ALA:N	2.46	0.48
51:m5:6:TYR:CD2	72:o6:40:VAL:HG13	2.48	0.48
57:n1:34:TYR:CE1	57:n1:98:HIS:CE1	3.01	0.48
59:n3:120:LYS:HE3	59:n3:124:ASP:OD2	2.13	0.48
71:o5:28:LEU:HA	71:o5:31:LEU:HB2	1.93	0.48
79:q3:30:GLU:HA	79:q3:33:GLN:HG2	1.94	0.48
1:2:201:G:H2'	1:2:202:A:C8	2.48	0.48
1:2:401:A:H1'	6:S4:3:ARG:NH1	2.28	0.48
1:2:542:A:H5''	1:2:544:A:C8	2.48	0.48
1:2:1234:A:H4'	33:E1:146:SER:HB3	1.95	0.48
2:S0:139:VAL:HG23	4:S2:62:PRO:HG3	1.94	0.48
4:S2:59:HIS:HA	23:D1:15:ARG:HE	1.78	0.48
6:S4:129:VAL:HB	6:S4:139:VAL:HG12	1.96	0.48
7:S5:84:LYS:HG2	7:S5:92:ARG:HH12	1.76	0.48
7:S5:158:GLN:HG2	30:D8:66:LEU:HD21	1.95	0.48
25:D3:86:PHE:CE1	25:D3:88:PRO:HA	2.48	0.48
29:D7:75:GLU:HB3	29:D7:76:GLY:H	1.48	0.48
36:1:533:A:H4'	36:1:534:U:OP1	2.13	0.48
36:1:1204:A:H2	36:1:2834:G:N3	2.11	0.48
36:1:2554:A:H62	79:Q3:62:LYS:NZ	2.11	0.48
38:4:64:U:H3	38:4:96:A:H61	1.62	0.48
47:M0:150:GLU:CG	47:M0:154:ARG:HE	2.26	0.48
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.47	0.48
55:M9:4:LEU:HB3	55:M9:24:LEU:HD23	1.95	0.48
58:N2:89:LEU:O	58:N2:93:ILE:HG13	2.14	0.48
59:N3:118:VAL:O	59:N3:137:VAL:N	2.38	0.48
62:N6:27:ARG:NH1	62:N6:75:ARG:O	2.40	0.48
62:N6:40:ARG:HG3	62:N6:45:ILE:O	2.13	0.48
78:Q2:11:TYR:HE1	78:Q2:13:LYS:HB3	1.77	0.48
1:6:459:G:P	26:d4:105:ARG:HH22	2.35	0.48
1:6:802:G:C6	1:6:803:A:C6	3.02	0.48
1:6:914:G:H5'	1:6:914:G:C8	2.48	0.48
1:6:1620:C:H2'	1:6:1621:U:H6	1.78	0.48
1:6:1785:U:OP1	16:c4:136:ARG:NH1	2.46	0.48
3:s1:131:ASP:OD1	3:s1:131:ASP:N	2.44	0.48
5:s3:135:GLU:HB3	5:s3:187:LYS:HB3	1.93	0.48
11:s9:157:ASP:OD1	11:s9:158:PHE:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:c2:67:THR:C	14:c2:69:ALA:H	2.21	0.48
18:c6:60:PHE:HD2	18:c6:63:ILE:HD11	1.79	0.48
20:c8:86:LEU:O	20:c8:89:GLN:NE2	2.44	0.48
26:d4:62:THR:HA	26:d4:69:SER:HA	1.96	0.48
36:5:107:A:O2'	36:5:324:A:N3	2.39	0.48
36:5:291:C:OP1	51:m5:68:ARG:NH1	2.33	0.48
36:5:818:C:N3	36:5:920:A:H5'	2.29	0.48
36:5:1393:A:N3	36:5:1419:A:O2'	2.42	0.48
36:5:2273:G:N2	36:5:2311:G:H2'	2.28	0.48
36:5:2313:A:H4'	36:5:2314:U:H5'	1.95	0.48
36:5:3317:U:H4'	36:5:3318:G:O5'	2.13	0.48
37:7:87:G:O2'	56:n0:119:ARG:NH1	2.46	0.48
39:l2:42:ARG:HG3	39:l2:89:TYR:CE1	2.47	0.48
41:l4:115:HIS:O	41:l4:119:ARG:HG3	2.14	0.48
41:l4:295:ILE:O	41:l4:299:ILE:HG12	2.12	0.48
44:l7:178:ILE:HD11	44:l7:187:GLU:HG2	1.95	0.48
61:m5:58:ASP:O	61:m5:62:VAL:HG23	2.13	0.48
68:o2:97:ALA:HB3	68:o2:100:ILE:HG12	1.94	0.48
73:o7:39:TYR:CD2	73:o7:40:PRO:HA	2.48	0.48
79:q3:17:ARG:HB3	79:q3:18:TYR:CD1	2.48	0.48
82:p2:10:ALA:HB1	82:p2:15:ALA:HB3	1.95	0.48
83:f:63:ASP:C	83:f:65:PHE:H	2.20	0.48
1:2:252:U:H2'	1:2:253:A:H8	1.78	0.48
1:2:415:C:O3'	1:2:416:A:H8	1.96	0.48
1:2:1155:G:O2'	86:2:2032:OHX:N2	2.46	0.48
1:2:1260:U:H2'	1:2:1261:G:C8	2.48	0.48
2:S0:59:LEU:HD11	23:D1:78:LEU:O	2.13	0.48
4:S2:137:ILE:HD13	4:S2:138:PRO:HD2	1.95	0.48
7:S5:149:VAL:HG13	7:S5:156:ARG:HG3	1.96	0.48
8:S6:44:GLU:CD	8:S6:44:GLU:H	2.20	0.48
18:C6:30:LYS:O	18:C6:66:ARG:HA	2.13	0.48
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.45	0.48
19:C7:108:ASP:O	19:C7:112:SER:OG	2.19	0.48
22:D0:50:LEU:HD23	22:D0:51:VAL:H	1.77	0.48
25:D3:63:GLN:HA	25:D3:65:ASN:N	2.27	0.48
28:D6:11:ASN:O	28:D6:33:ASP:HB2	2.14	0.48
29:D7:56:CYS:HB3	29:D7:59:CYS:O	2.13	0.48
36:1:860:G:P	79:Q3:17:ARG:HH12	2.34	0.48
36:1:1278:A:HO2'	36:1:1279:C:H6	1.58	0.48
36:1:1626:U:O4	86:1:4070:OHX:N6	2.46	0.48
36:1:2697:A:H2'	36:1:2698:G:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3023:U:H2'	36:1:3024:A:C8	2.48	0.48
36:1:3213:A:N7	50:M4:124:ARG:NH2	2.56	0.48
40:L3:53:MET:HE2	40:L3:77:THR:HG22	1.93	0.48
40:L3:347:SER:O	40:L3:348:ARG:HB3	2.12	0.48
41:L4:281:ILE:HG22	54:M8:25:TYR:HB3	1.94	0.48
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.42	0.48
47:M0:89:VAL:HG13	47:M0:136:PHE:HE1	1.78	0.48
48:M1:16:LYS:HG2	48:M1:130:VAL:CG1	2.43	0.48
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.96	0.48
48:M1:116:TYR:CD2	48:M1:122:ILE:HD11	2.49	0.48
63:N7:36:HIS:HB3	63:N7:38:PHE:CZ	2.47	0.48
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CE3	2.49	0.48
1:6:646:C:H2'	1:6:647:G:C8	2.48	0.48
1:6:1067:C:H2'	1:6:1068:C:C6	2.47	0.48
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.13	0.48
1:6:1793:G:H1'	1:6:1794:A:H2'	1.94	0.48
2:s0:64:ILE:HD13	2:s0:89:PHE:HZ	1.79	0.48
7:s5:97:LEU:O	7:s5:99:MET:N	2.47	0.48
10:s8:78:ILE:HA	10:s8:104:ILE:HG22	1.95	0.48
18:c6:73:GLY:H	18:c6:76:SER:HG	1.60	0.48
24:d2:94:LEU:HD11	24:d2:102:VAL:HG23	1.94	0.48
36:5:252:U:H4'	36:5:253:A:C5'	2.43	0.48
36:5:1238:C:O2'	36:5:1239:C:OP1	2.30	0.48
36:5:1940:G:N2	36:5:3362:A:H8	2.11	0.48
36:5:2518:C:OP1	86:5:4121:OHX:N4	2.46	0.48
36:5:2877:G:N7	86:5:4049:OHX:N3	2.60	0.48
38:8:26:U:H2'	38:8:27:U:C6	2.48	0.48
39:l2:104:LEU:O	39:l2:107:VAL:HG22	2.14	0.48
48:m1:56:THR:O	48:m1:56:THR:OG1	2.27	0.48
52:m6:42:ASN:ND2	52:m6:125:ARG:HD3	2.27	0.48
63:n7:53:VAL:HA	63:n7:57:HIS:HD2	1.78	0.48
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.94	0.48
74:o8:16:ARG:NH1	74:o8:70:PRO:HG3	2.29	0.48
83:f:18:THR:HG21	83:f:142:MET:HE3	1.96	0.48
1:2:190:C:O2'	1:2:191:C:H5'	2.13	0.48
1:2:703:G:H1	1:2:735:C:N4	2.10	0.48
1:2:798:C:H2'	1:2:799:A:H8	1.78	0.48
1:2:1217:A:H5''	12:C0:1:MET:HG3	1.96	0.48
1:2:1313:A:O2'	1:2:1315:U:OP1	2.31	0.48
1:2:1494:C:H2'	1:2:1495:C:H6	1.79	0.48
1:2:1579:U:O2'	18:C6:139:GLN:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.43	0.48
7:S5:76:ARG:C	7:S5:78:ALA:H	2.21	0.48
18:C6:37:THR:O	18:C6:45:ARG:NH1	2.46	0.48
21:C9:132:LEU:O	21:C9:135:ILE:HG13	2.13	0.48
24:D2:8:ALA:HA	24:D2:74:VAL:HG11	1.94	0.48
34:SR:242:SER:O	34:SR:292:LEU:HD21	2.12	0.48
36:1:1864:A:OP1	55:M9:88:ARG:NH1	2.46	0.48
36:1:2443:A:O2'	36:1:2444:C:H5'	2.13	0.48
36:1:2443:A:H61	36:1:2504:U:H3	1.61	0.48
36:1:2544:U:H2'	36:1:2545:C:H6	1.78	0.48
36:1:3203:U:O4	86:1:4085:OHX:N1	2.45	0.48
86:1:3766:OHX:N2	73:O7:44:THR:O	2.45	0.48
41:L4:169:LEU:O	41:L4:172:VAL:HG12	2.14	0.48
43:L6:145:LEU:O	43:L6:149:ILE:N	2.47	0.48
47:M0:17:TYR:H	47:M0:95:HIS:CE1	2.31	0.48
50:M4:21:VAL:N	50:M4:33:ALA:O	2.37	0.48
54:M8:133:LYS:HB2	54:M8:135:GLN:NE2	2.29	0.48
58:N2:18:ASP:HA	58:N2:62:VAL:HG22	1.95	0.48
58:N2:41:ILE:HG12	58:N2:79:LEU:HD13	1.96	0.48
59:N3:87:ARG:HH22	59:N3:137:VAL:HG13	1.78	0.48
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.42	0.48
66:O0:27:TYR:O	66:O0:30:THR:OG1	2.29	0.48
1:6:512:A:OP2	11:s9:173:ALA:N	2.47	0.48
1:6:1320:U:H3'	2:s0:101:ARG:NH2	2.28	0.48
1:6:1628:U:OP1	28:d6:89:ARG:N	2.39	0.48
8:s6:3:LEU:HD22	8:s6:111:LEU:HD11	1.94	0.48
12:c0:4:PRO:HG2	12:c0:7:ASP:HB2	1.96	0.48
15:c3:96:VAL:O	15:c3:100:LYS:HG2	2.13	0.48
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	1.95	0.48
34:sR:174:ASN:OD1	34:sR:198:ASN:HB3	2.14	0.48
36:5:290:G:H4'	51:m5:69:GLY:O	2.12	0.48
36:5:495:G:H1	36:5:618:C:H42	1.61	0.48
36:5:598:A:OP1	44:l7:41:ARG:NH1	2.45	0.48
36:5:1208:U:H6	36:5:3115:C:H42	1.60	0.48
36:5:2202:C:H5''	39:l2:226:SER:HA	1.95	0.48
36:5:2307:G:O2'	36:5:2310:U:OP2	2.28	0.48
36:5:3189:G:H2'	36:5:3190:C:O4'	2.13	0.48
38:8:29:U:H2'	38:8:30:C:H6	1.79	0.48
39:l2:82:VAL:HA	39:l2:86:GLN:OE1	2.13	0.48
40:l3:102:LEU:HD23	40:l3:102:LEU:H	1.78	0.48
51:m5:27:VAL:HB	51:m5:122:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:47:SER:O	57:n1:49:GLN:NE2	2.46	0.48
58:n2:35:LYS:NZ	58:n2:39:ASP:OD2	2.42	0.48
68:o2:32:TRP:CZ2	68:o2:53:PRO:HD2	2.48	0.48
74:o8:16:ARG:O	74:o8:18:ALA:N	2.46	0.48
1:2:609:U:O2'	25:D3:23:ARG:HD3	2.14	0.48
1:2:1503:A:C6	20:C8:84:TRP:CD1	3.01	0.48
2:S0:148:ASP:OD2	2:S0:165:ARG:NH1	2.47	0.48
2:S0:195:TRP:CZ2	2:S0:197:ILE:HD13	2.48	0.48
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.13	0.48
7:S5:107:LYS:O	7:S5:111:VAL:HG23	2.14	0.48
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.14	0.48
18:C6:58:ASP:OD2	18:C6:59:LYS:NZ	2.42	0.48
18:C6:83:GLN:HE22	18:C6:119:ALA:HA	1.77	0.48
19:C7:34:LEU:CD2	19:C7:38:ILE:HD12	2.43	0.48
36:1:381:U:H2'	36:1:382:U:C6	2.46	0.48
36:1:1552:G:OP2	86:1:4034:OHX:N6	2.46	0.48
36:1:2801:A:O2'	36:1:2802:A:H2'	2.13	0.48
86:1:3769:OHX:N1	38:4:2:A:OP2	2.46	0.48
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.95	0.48
45:L8:124:ASP:C	45:L8:126:SER:H	2.20	0.48
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.47	0.48
46:L9:138:THR:C	46:L9:140:VAL:H	2.22	0.48
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.95	0.48
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.14	0.48
59:N3:17:LEU:HB2	59:N3:52:ALA:HB3	1.95	0.48
68:O2:26:HIS:O	68:O2:28:VAL:N	2.46	0.48
70:O4:7:PHE:HD2	70:O4:12:PRO:HA	1.78	0.48
76:Q0:97:ARG:HG3	76:Q0:120:GLN:O	2.14	0.48
1:6:363:G:OP1	86:6:2078:OHX:N1	2.47	0.48
1:6:1237:G:H2'	1:6:1238:A:C8	2.48	0.48
3:s1:168:ILE:O	3:s1:172:LEU:HG	2.12	0.48
4:s2:49:LYS:HD2	4:s2:243:TYR:CD1	2.48	0.48
4:s2:85:PRO:HG3	4:s2:98:PHE:CD1	2.48	0.48
5:s3:64:ARG:O	5:s3:66:ILE:N	2.45	0.48
5:s3:127:MET:HE1	5:s3:133:GLY:HA2	1.95	0.48
17:c5:29:SER:OG	17:c5:32:ASP:OD2	2.32	0.48
35:sM:57:ASN:O	35:sM:61:ILE:HG22	2.13	0.48
36:5:766:U:H4'	36:5:767:U:O5'	2.13	0.48
36:5:1664:G:H2'	36:5:1665:C:C6	2.48	0.48
36:5:1879:A:H2'	36:5:1879:A:N3	2.29	0.48
36:5:2392:C:H5''	36:5:2393:G:OP2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3007:U:H5'	52:m6:73:PHE:CD1	2.47	0.48
38:8:104:A:C8	38:8:105:A:C8	3.00	0.48
38:8:124:G:OP2	86:8:222:OHX:N2	2.45	0.48
41:14:217:LYS:HA	41:14:220:ARG:HG2	1.96	0.48
41:14:334:PHE:HA	41:14:339:LEU:HD11	1.94	0.48
42:15:277:LEU:HD12	42:15:282:ARG:HG3	1.95	0.48
43:16:96:VAL:HG12	43:16:98:VAL:HB	1.94	0.48
54:m8:18:ALA:HB1	54:m8:19:PRO:HD2	1.95	0.48
56:n0:10:ILE:HG12	56:n0:26:ARG:HB2	1.94	0.48
60:n4:15:PRO:O	60:n4:17:ARG:HG2	2.12	0.48
61:n5:46:TYR:HD2	71:o5:75:TYR:HB3	1.79	0.48
61:n5:105:VAL:HG21	61:n5:135:ILE:HG13	1.95	0.48
1:2:93:A:C6	1:2:398:G:C6	3.01	0.48
1:2:363:G:OP1	86:2:2046:OHX:N2	2.47	0.48
1:2:625:C:H2'	1:2:626:U:C6	2.49	0.48
1:2:818:C:N4	1:2:819:G:O6	2.47	0.48
1:2:1528:U:H2'	1:2:1529:C:C6	2.49	0.48
14:C2:59:LEU:HA	14:C2:87:PRO:CB	2.43	0.48
15:C3:129:TYR:HB3	15:C3:135:LEU:HD12	1.96	0.48
19:C7:31:ASN:O	19:C7:35:CYS:HB2	2.13	0.48
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.48	0.48
27:D5:38:HIS:HE1	27:D5:70:LYS:HD3	1.79	0.48
36:1:1120:A:C2	36:1:1139:G:C2	3.02	0.48
36:1:1230:G:H1	36:1:1279:C:N4	2.11	0.48
36:1:1953:G:N2	36:1:2093:A:N7	2.54	0.48
36:1:2177:G:O6	86:1:3821:OHX:N2	2.46	0.48
36:1:3005:A:H5''	52:M6:149:TYR:OH	2.14	0.48
40:L3:92:TYR:CE2	40:L3:101:SER:HB3	2.48	0.48
40:L3:252:ILE:HG23	40:L3:260:VAL:HG13	1.95	0.48
41:L4:295:ILE:O	41:L4:299:ILE:HG12	2.13	0.48
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.47	0.48
59:N3:22:ILE:HG12	59:N3:35:TYR:HB2	1.94	0.48
61:N5:113:LEU:HD12	61:N5:114:VAL:C	2.39	0.48
1:6:200:A:H2'	1:6:201:G:C8	2.48	0.48
1:6:485:A:H61	1:6:502:U:H3	1.62	0.48
1:6:1140:G:C2	1:6:1141:G:C8	3.01	0.48
1:6:1275:A:H8	1:6:1275:A:OP2	1.97	0.48
1:6:1799:U:H4'	1:6:1800:A:H2'	1.96	0.48
5:s3:102:ALA:HB1	5:s3:173:ARG:CG	2.41	0.48
11:s9:61:THR:HA	24:d2:97:ARG:HH12	1.78	0.48
16:c4:132:ARG:HB2	16:c4:132:ARG:NH1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:121:CYS:HB2	33:e1:132:LEU:HD21	1.95	0.48
34:sR:278:PHE:O	86:sR:401:OHX:N3	2.46	0.48
36:5:1603:A:N6	61:n5:71:THR:HG21	2.28	0.48
36:5:2606:G:H2'	36:5:2606:G:N3	2.29	0.48
38:8:113:U:C5	75:o9:7:PHE:HE2	2.32	0.48
40:l3:332:ARG:HG2	40:l3:333:LYS:HG3	1.95	0.48
54:m8:67:ILE:HG23	54:m8:81:VAL:HG11	1.96	0.48
55:m9:99:LEU:HD11	55:m9:103:ARG:CZ	2.44	0.48
65:n9:31:SER:OG	65:n9:33:LYS:HB3	2.14	0.48
66:o0:13:LYS:NZ	66:o0:99:ASP:OD2	2.35	0.48
68:o2:121:ASN:OD1	68:o2:121:ASN:N	2.44	0.48
78:q2:4:VAL:HG12	78:q2:93:LEU:HB3	1.94	0.48
1:2:93:A:H4'	1:2:94:U:OP2	2.14	0.48
1:2:231:U:O2'	1:2:232:U:H5''	2.14	0.48
1:2:463:U:H2'	1:2:464:A:H8	1.78	0.48
1:2:751:G:H2'	1:2:752:A:C8	2.48	0.48
1:2:1470:C:OP1	1:2:1540:G:O2'	2.31	0.48
1:2:1682:U:O2'	1:2:1683:C:H5'	2.13	0.48
6:S4:57:ASN:O	6:S4:61:VAL:HG23	2.14	0.48
8:S6:26:VAL:HG21	8:S6:40:ALA:HB1	1.96	0.48
9:S7:131:PHE:C	9:S7:133:THR:H	2.21	0.48
10:S8:25:ARG:O	10:S8:28:GLU:HG2	2.14	0.48
27:D5:89:ILE:HB	27:D5:101:TYR:HB3	1.95	0.48
36:1:290:G:H4'	51:M5:69:GLY:O	2.14	0.48
36:1:633:C:O2'	69:O3:22:VAL:HA	2.14	0.48
36:1:1393:A:N3	36:1:1419:A:O2'	2.40	0.48
36:1:2707:C:H2'	36:1:2708:C:H6	1.79	0.48
36:1:3070:A:OP1	55:M9:62:ARG:HD3	2.13	0.48
38:4:45:C:OP1	75:O9:12:LYS:NZ	2.47	0.48
40:L3:81:THR:OG1	40:L3:321:PHE:HA	2.13	0.48
41:L4:136:LEU:O	41:L4:138:ARG:N	2.43	0.48
42:L5:261:THR:HG23	42:L5:264:GLN:HG3	1.95	0.48
44:L7:208:SER:O	44:L7:243:MET:HB3	2.14	0.48
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.95	0.48
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	1.94	0.48
70:O4:71:THR:HG22	70:O4:72:VAL:O	2.14	0.48
1:6:1382:A:H4'	22:d0:57:ARG:HG2	1.95	0.48
2:s0:48:ILE:HG22	2:s0:49:ASN:H	1.78	0.48
6:s4:230:GLU:HB2	6:s4:233:LYS:NZ	2.29	0.48
14:c2:74:LEU:HD21	33:e1:106:TYR:HB3	1.95	0.48
14:c2:124:LYS:C	35:sM:169:ALA:HB2	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d0:33:GLN:OE1	22:d0:33:GLN:N	2.47	0.48
36:5:1478:C:H2'	36:5:1479:U:H6	1.77	0.48
36:5:1599:G:OP1	86:5:3988:OHX:N3	2.47	0.48
36:5:2772:C:H1'	36:5:2773:C:OP2	2.14	0.48
36:5:3181:C:H2'	36:5:3182:G:C8	2.49	0.48
40:l3:43:LEU:HD11	40:l3:160:VAL:HG21	1.95	0.48
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	1.96	0.48
67:o1:41:LYS:HG3	67:o1:47:ASP:H	1.79	0.48
69:o3:52:VAL:HG21	69:o3:99:ARG:NH1	2.28	0.48
81:p0:87:VAL:HG11	81:p0:100:ILE:HD11	1.95	0.48
1:2:76:A:H8	86:2:2124:OHX:N1	2.11	0.48
1:2:463:U:H2'	1:2:464:A:C8	2.49	0.48
1:2:514:G:N1	1:2:543:C:H5	2.12	0.48
1:2:1114:G:HO2'	1:2:1130:G:H1	1.61	0.48
1:2:1186:U:OP2	1:2:1456:C:H1'	2.14	0.48
1:2:1199:G:N7	31:D9:40:ARG:HD3	2.29	0.48
7:S5:222:LYS:HG3	7:S5:225:ARG:NH2	2.28	0.48
8:S6:57:ASP:OD1	8:S6:72:ARG:NH1	2.47	0.48
34:SR:13:LEU:O	34:SR:309:VAL:HG13	2.13	0.48
36:1:13:A:OP1	86:1:4018:OHX:N5	2.46	0.48
36:1:1386:A:OP2	68:O2:80:LYS:NZ	2.47	0.48
36:1:2255:A:OP2	36:1:2261:G:N1	2.34	0.48
36:1:2520:A:H2'	36:1:2521:U:C6	2.47	0.48
36:1:2725:U:O4	86:1:3806:OHX:N2	2.47	0.48
36:1:2756:C:O4'	57:N1:49:GLN:HG2	2.14	0.48
36:1:3088:G:H2'	36:1:3089:C:C6	2.49	0.48
36:1:3160:U:H2'	36:1:3161:C:C6	2.48	0.48
39:L2:17:THR:OG1	39:L2:18:SER:N	2.44	0.48
40:L3:377:HIS:C	40:L3:379:PHE:H	2.20	0.48
42:L5:261:THR:N	42:L5:264:GLN:HB2	2.29	0.48
47:M0:142:ASP:CG	47:M0:178:ARG:HH22	2.21	0.48
51:M5:27:VAL:HB	51:M5:122:ASN:HD21	1.79	0.48
53:M7:92:GLN:HA	53:M7:95:LEU:HB2	1.96	0.48
59:N3:6:ALA:HB1	59:N3:125:LEU:HD11	1.95	0.48
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.46	0.48
78:Q2:47:GLN:NE2	78:Q2:53:GLN:OE1	2.47	0.48
1:6:833:U:O4	86:6:2067:OHX:N2	2.46	0.48
1:6:1330:G:H21	19:c7:8:THR:HG21	1.79	0.48
1:6:1451:C:H2'	1:6:1452:U:C6	2.47	0.48
1:6:1698:G:O2'	1:6:1699:G:O5'	2.28	0.48
13:c1:83:THR:HA	13:c1:111:VAL:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:c2:54:ARG:NH1	14:c2:56:GLU:OE2	2.47	0.48
25:d3:73:ARG:HH21	25:d3:84:THR:HG22	1.78	0.48
34:sR:201:THR:HG21	34:sR:242:SER:HA	1.96	0.48
36:5:22:G:H1'	38:8:104:A:N3	2.29	0.48
36:5:546:C:H4'	36:5:547:G:O5'	2.13	0.48
36:5:901:G:H2'	36:5:902:G:C8	2.46	0.48
36:5:3242:G:H2'	40:l3:154:TYR:CD1	2.49	0.48
40:l3:204:ALA:O	40:l3:207:SER:HB3	2.13	0.48
43:l6:52:VAL:CG1	43:l6:65:ILE:HG23	2.41	0.48
68:o2:61:LYS:HB2	68:o2:61:LYS:NZ	2.29	0.48
1:2:328:A:H2'	1:2:329:G:C8	2.48	0.48
1:2:478:A:O4'	11:S9:127:VAL:HG21	2.13	0.48
1:2:1106:U:H2'	1:2:1107:G:H8	1.78	0.48
1:2:1476:C:H2'	1:2:1477:G:H8	1.79	0.48
1:2:1535:U:O2'	1:2:1536:G:H5''	2.12	0.48
2:S0:50:VAL:O	2:S0:53:THR:HB	2.13	0.48
4:S2:144:TRP:H	4:S2:152:HIS:HE2	1.62	0.48
13:C1:112:SER:C	13:C1:114:ALA:H	2.22	0.48
22:D0:43:LYS:HA	22:D0:43:LYS:NZ	2.28	0.48
33:E1:135:HIS:ND1	33:E1:138:ARG:HD3	2.28	0.48
36:1:590:G:C2	36:1:610:G:H2'	2.49	0.48
36:1:767:U:H1'	36:1:768:C:C6	2.49	0.48
36:1:1602:A:H5''	55:M9:38:ARG:HG3	1.96	0.48
36:1:3306:U:H2'	36:1:3307:A:H5''	1.95	0.48
37:3:71:G:H2'	37:3:72:A:H8	1.78	0.48
40:L3:339:ARG:NH1	40:L3:342:LEU:HD11	2.28	0.48
41:L4:72:ALA:HB3	41:L4:76:ARG:HH22	1.78	0.48
41:L4:166:VAL:O	41:L4:170:LYS:HG3	2.14	0.48
42:L5:195:LEU:O	42:L5:199:ILE:HG13	2.14	0.48
49:M3:50:PRO:HB2	49:M3:140:SER:O	2.14	0.48
53:M7:53:ASP:O	86:M7:205:OHX:N3	2.46	0.48
53:M7:108:ASP:OD1	53:M7:111:LYS:HG3	2.13	0.48
55:M9:7:GLN:HB3	55:M9:24:LEU:HD21	1.95	0.48
55:M9:101:VAL:O	55:M9:104:ARG:NH2	2.47	0.48
1:6:198:A:C2'	1:6:199:G:H5'	2.44	0.48
1:6:794:U:H4'	1:6:795:U:OP2	2.13	0.48
1:6:1054:U:O4	86:6:2181:OHX:N4	2.47	0.48
4:s2:213:ALA:HA	4:s2:216:VAL:HB	1.96	0.48
6:s4:6:LYS:HE2	6:s4:6:LYS:HB2	1.65	0.48
7:s5:26:ALA:HB3	18:c6:28:LEU:N	2.29	0.48
8:s6:79:LYS:O	8:s6:80:ASN:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.49	0.48
25:d3:56:LYS:O	25:d3:57:LEU:HD23	2.13	0.48
28:d6:41:ILE:HD12	28:d6:68:TYR:CD1	2.48	0.48
36:5:58:G:H4'	51:m5:155:VAL:HG12	1.95	0.48
36:5:251:G:H1'	36:5:252:U:C2	2.49	0.48
36:5:2157:G:N1	36:5:2178:A:OP2	2.39	0.48
37:7:9:C:OP1	57:n1:28:SER:OG	2.24	0.48
37:7:112:G:H2'	37:7:113:C:C6	2.49	0.48
55:m9:105:LEU:HD12	55:m9:138:LEU:HD12	1.94	0.48
66:o0:17:VAL:HG11	66:o0:92:ILE:HD12	1.95	0.48
69:o3:6:ARG:HG3	69:o3:8:TYR:CD1	2.49	0.48
1:2:189:C:N4	1:2:197:A:H2	2.11	0.48
1:2:217:A:OP1	1:2:217:A:H2'	2.14	0.48
1:2:938:G:N2	1:2:941:A:OP2	2.38	0.48
1:2:1291:G:O5'	1:2:1291:G:H8	1.96	0.48
1:2:1430:U:H1'	22:D0:72:ASN:HD22	1.78	0.48
1:2:1615:C:H4'	1:2:1616:G:O5'	2.14	0.48
3:S1:124:ASN:HB3	3:S1:138:PHE:CD1	2.49	0.48
4:S2:103:VAL:HG22	4:S2:113:LEU:HD22	1.96	0.48
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.49	0.48
23:D1:72:LEU:HA	23:D1:75:ASN:HD21	1.79	0.48
34:SR:106:HIS:CE1	34:SR:126:SER:HB3	2.49	0.48
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.32	0.48
36:1:900:G:H1'	36:1:1589:A:H62	1.78	0.48
36:1:945:C:H2'	36:1:946:U:H6	1.79	0.48
36:1:1033:U:H2'	36:1:1034:U:C6	2.48	0.48
36:1:1080:A:OP1	42:L5:140:ARG:HD3	2.14	0.48
36:1:1362:G:N3	44:L7:158:LYS:HE3	2.28	0.48
40:L3:305:ILE:HG12	40:L3:321:PHE:CE2	2.48	0.48
41:L4:292:SER:OG	41:L4:293:SER:N	2.45	0.48
42:L5:178:ASN:HA	42:L5:183:TRP:CG	2.48	0.48
49:M3:57:VAL:HG22	49:M3:147:ILE:HG23	1.96	0.48
51:M5:65:ARG:HB3	51:M5:127:TYR:CD1	2.48	0.48
72:O6:33:ALA:O	72:O6:37:THR:OG1	2.32	0.48
1:6:2:A:C2	4:s2:170:ILE:HD12	2.48	0.48
1:6:331:A:N7	10:s8:172:ARG:NH2	2.62	0.48
1:6:1383:G:OP1	22:d0:87:HIS:ND1	2.47	0.48
2:s0:36:TYR:OH	23:d1:66:ASP:OD2	2.24	0.48
4:s2:203:LYS:C	4:s2:205:ARG:H	2.21	0.48
8:s6:12:SER:O	8:s6:13:GLN:HG3	2.14	0.48
10:s8:100:ALA:HB3	10:s8:169:ILE:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:112:TYR:O	18:c6:114:ARG:NH1	2.46	0.48
26:d4:57:VAL:HB	26:d4:60:PHE:CZ	2.49	0.48
36:5:118:U:C5	36:5:119:U:C4	3.01	0.48
36:5:646:A:C2	36:5:2375:G:C2	3.02	0.48
36:5:1065:A:N6	65:n9:26:THR:O	2.33	0.48
36:5:1304:A:O2'	36:5:2884:C:O2	2.32	0.48
36:5:1667:A:H2'	36:5:1668:G:H8	1.75	0.48
36:5:2155:G:O2'	39:l2:227:ARG:NH2	2.47	0.48
36:5:2553:U:O4'	66:o0:50:VAL:HB	2.14	0.48
36:5:2754:G:O2'	36:5:2755:C:OP1	2.29	0.48
36:5:2890:A:N1	36:5:2913:C:N3	2.62	0.48
39:l2:4:VAL:HG12	39:l2:8:GLN:HG3	1.95	0.48
39:l2:44:ILE:HG12	39:l2:87:PHE:HE1	1.78	0.48
44:l7:47:ARG:NH2	44:l7:179:LEU:HD11	2.28	0.48
47:m0:200:LEU:HD12	47:m0:213:PHE:CB	2.44	0.48
63:n7:84:ARG:HB3	66:o0:61:MET:HE1	1.96	0.48
1:2:1163:A:H2'	1:2:1164:G:O4'	2.13	0.47
1:2:1213:G:O6	86:2:1997:OHX:N3	2.47	0.47
2:S0:87:LEU:HD12	2:S0:87:LEU:HA	1.79	0.47
4:S2:140:ARG:HH22	4:S2:228:ASN:HD21	1.62	0.47
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.48	0.47
5:S3:101:GLN:O	5:S3:104:SER:HB3	2.13	0.47
8:S6:219:ARG:O	8:S6:223:LYS:HB2	2.13	0.47
23:D1:39:VAL:HA	23:D1:45:ALA:HA	1.96	0.47
28:D6:38:ARG:N	28:D6:38:ARG:HD2	2.29	0.47
36:1:123:A:OP1	45:L8:105:LYS:NZ	2.40	0.47
36:1:359:U:O2'	73:O7:16:HIS:ND1	2.46	0.47
36:1:542:G:H2'	36:1:543:C:C6	2.49	0.47
36:1:1027:A:H2'	36:1:1029:G:H5''	1.95	0.47
36:1:1675:G:H2'	36:1:1676:A:C8	2.49	0.47
40:L3:137:TYR:O	40:L3:139:GLN:N	2.48	0.47
41:L4:150:LEU:HD11	41:L4:172:VAL:HG22	1.96	0.47
43:L6:107:ALA:HB3	43:L6:109:GLU:OE2	2.13	0.47
47:M0:188:GLY:O	47:M0:190:VAL:N	2.47	0.47
61:N5:108:LEU:N	61:N5:125:ARG:O	2.43	0.47
66:O0:76:GLU:OE1	66:O0:76:GLU:N	2.45	0.47
72:O6:57:LEU:HD11	72:O6:73:ALA:HB2	1.96	0.47
1:6:27:U:H2'	1:6:28:A:H8	1.79	0.47
1:6:953:G:P	15:c3:94:LYS:HZ1	2.37	0.47
1:6:1234:A:H4'	33:e1:146:SER:HB3	1.96	0.47
1:6:1468:U:H2'	1:6:1469:A:O4'	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:26:LYS:O	10:s8:29:LEU:HD22	2.14	0.47
11:s9:143:ILE:C	11:s9:145:SER:H	2.21	0.47
15:c3:74:ILE:O	15:c3:78:ASN:HB2	2.14	0.47
20:c8:36:LYS:HB3	20:c8:105:VAL:HG11	1.95	0.47
34:sR:84:SER:OG	34:sR:85:TRP:N	2.47	0.47
36:5:200:C:H5'	36:5:221:A:C2	2.49	0.47
36:5:715:A:C8	64:n8:115:LYS:HD2	2.49	0.47
36:5:1080:A:OP2	42:l5:140:ARG:NH2	2.47	0.47
36:5:2542:U:H1'	36:5:2543:U:C5	2.49	0.47
36:5:3269:U:H5'	36:5:3271:G:O4'	2.14	0.47
86:5:3978:OHX:N5	86:5:4052:OHX:N2	2.62	0.47
50:m4:22:LEU:HD22	50:m4:94:TRP:CH2	2.49	0.47
50:m4:76:ALA:HB1	50:m4:80:THR:OG1	2.14	0.47
54:m8:72:LYS:HB3	54:m8:72:LYS:NZ	2.29	0.47
54:m8:158:HIS:H	54:m8:186:VAL:CG1	2.26	0.47
55:m9:130:ASN:O	55:m9:132:PHE:N	2.46	0.47
62:n6:71:SER:HB3	62:n6:83:ASP:HB2	1.94	0.47
74:o8:57:ASN:N	74:o8:57:ASN:OD1	2.45	0.47
79:q3:27:LYS:HE2	79:q3:31:ILE:HD11	1.95	0.47
79:q3:56:THR:HB	79:q3:63:THR:OG1	2.14	0.47
81:p0:91:GLU:HG2	81:p0:92:PRO:HD2	1.96	0.47
1:2:304:U:H2'	1:2:305:C:C6	2.49	0.47
1:2:1583:A:N1	1:2:1611:A:H5''	2.29	0.47
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.96	0.47
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	1.94	0.47
19:C7:15:ALA:O	19:C7:19:ARG:HG2	2.14	0.47
36:1:109:A:H4'	36:1:110:G:OP1	2.14	0.47
36:1:1355:A:H1'	36:1:1356:U:OP2	2.14	0.47
36:1:1653:G:C2	36:1:1654:A:C4	3.02	0.47
36:1:1789:G:O6	86:1:4066:OHX:N4	2.47	0.47
42:L5:4:GLN:OE1	42:L5:4:GLN:N	2.39	0.47
42:L5:209:GLU:HG2	42:L5:233:ALA:CB	2.44	0.47
54:M8:90:ASP:C	54:M8:92:ARG:H	2.21	0.47
55:M9:44:LEU:HB3	55:M9:49:THR:HB	1.96	0.47
55:M9:86:GLU:HG2	55:M9:91:SER:H	1.79	0.47
55:M9:148:ASP:CG	55:M9:151:ARG:HH21	2.20	0.47
59:N3:37:ILE:HG12	59:N3:59:MET:O	2.14	0.47
65:N9:17:HIS:O	86:N9:101:OHX:N6	2.47	0.47
70:O4:71:THR:HG23	70:O4:77:GLY:HA3	1.96	0.47
75:O9:21:ARG:HH11	75:O9:24:PRO:HG3	1.77	0.47
1:6:27:U:H2'	1:6:28:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:687:G:OP1	24:d2:118:ARG:NH1	2.47	0.47
1:6:993:A:H2'	1:6:994:G:O4'	2.13	0.47
1:6:1163:A:N3	1:6:1613:U:O2'	2.41	0.47
1:6:1795:U:H5'	28:d6:79:ILE:HD11	1.96	0.47
2:s0:120:LEU:HD11	2:s0:144:ILE:HG12	1.96	0.47
3:s1:77:GLU:OE1	16:c4:114:ARG:NH2	2.46	0.47
6:s4:61:VAL:HG12	6:s4:65:LEU:HD11	1.96	0.47
16:c4:31:THR:HA	16:c4:39:ILE:HG12	1.97	0.47
18:c6:57:LEU:HD12	18:c6:57:LEU:H	1.79	0.47
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.36	0.47
36:5:1536:G:O6	86:5:3839:OHX:N2	2.46	0.47
36:5:2109:U:O2'	36:5:2110:G:H5'	2.14	0.47
36:5:2584:G:H5'	36:5:2585:G:OP2	2.14	0.47
41:l4:269:SER:O	41:l4:271:LYS:N	2.45	0.47
44:l7:198:ALA:O	44:l7:201:PHE:HB3	2.14	0.47
48:m1:54:VAL:HB	48:m1:57:PHE:HB2	1.95	0.47
49:m3:89:TYR:O	49:m3:92:THR:OG1	2.26	0.47
51:m5:99:ARG:NH2	51:m5:166:ALA:HB3	2.28	0.47
51:m5:146:ALA:HA	51:m5:149:ASN:ND2	2.30	0.47
53:m7:23:ARG:O	53:m7:86:LYS:HE2	2.13	0.47
58:n2:48:GLY:C	58:n2:50:LEU:H	2.22	0.47
59:n3:67:PRO:O	59:n3:69:LEU:N	2.47	0.47
60:n4:33:ASN:HD21	60:n4:35:LYS:HB3	1.78	0.47
1:2:560:U:H2'	1:2:561:G:H8	1.77	0.47
1:2:1474:G:H2'	1:2:1475:A:H8	1.78	0.47
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.14	0.47
10:S8:6:ASP:HB3	10:S8:28:GLU:OE2	2.14	0.47
11:S9:174:ARG:HH21	11:S9:177:ALA:HB2	1.79	0.47
15:C3:11:ILE:O	15:C3:13:SER:N	2.47	0.47
18:C6:113:ASP:O	18:C6:114:ARG:NH1	2.48	0.47
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.96	0.47
24:D2:15:ASN:ND2	24:D2:72:CYS:SG	2.85	0.47
26:D4:56:SER:HB3	26:D4:74:LEU:HD12	1.94	0.47
29:D7:14:SER:HB2	29:D7:17:ARG:HE	1.78	0.47
36:1:316:U:O2'	72:O6:30:LYS:HG3	2.14	0.47
36:1:563:U:OP1	56:N0:71:LYS:NZ	2.47	0.47
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.96	0.47
36:1:2881:C:H2'	36:1:2882:U:C6	2.47	0.47
36:1:2892:A:H2'	36:1:2893:C:H6	1.80	0.47
37:3:46:A:P	42:L5:158:ARG:HH11	2.37	0.47
37:3:76:A:OP2	86:3:209:OHX:N5	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:8:VAL:HG22	41:L4:20:LEU:HD11	1.96	0.47
48:M1:40:LEU:HD13	48:M1:79:ILE:HD13	1.96	0.47
50:M4:8:LYS:HB3	50:M4:9:ALA:H	1.43	0.47
58:N2:67:SER:OG	58:N2:68:THR:N	2.47	0.47
61:N5:91:ASN:O	61:N5:95:ILE:HG13	2.15	0.47
67:O1:96:VAL:O	67:O1:98:VAL:HG12	2.14	0.47
1:6:319:U:H1'	1:6:323:A:C4	2.50	0.47
1:6:405:C:OP1	86:6:2022:OHX:N5	2.47	0.47
1:6:528:U:C2	1:6:529:A:C8	3.02	0.47
1:6:542:A:H1'	1:6:543:C:OP1	2.14	0.47
1:6:1564:U:O2'	20:c8:84:TRP:O	2.33	0.47
2:s0:9:LEU:HD23	2:s0:54:TRP:CG	2.49	0.47
2:s0:198:MET:SD	2:s0:199:PRO:HD2	2.54	0.47
4:s2:65:GLU:HB3	4:s2:67:GLN:OE1	2.13	0.47
6:s4:72:VAL:HB	6:s4:77:ARG:HG3	1.95	0.47
6:s4:246:LEU:H	6:s4:246:LEU:HD12	1.79	0.47
9:s7:126:LEU:HB2	9:s7:173:TYR:CE2	2.47	0.47
9:s7:138:LYS:HD3	9:s7:150:GLN:HE22	1.79	0.47
14:c2:66:VAL:HG11	14:c2:71:ILE:HD13	1.95	0.47
15:c3:17:PRO:HB3	29:d7:28:PRO:HG3	1.96	0.47
17:c5:54:ALA:C	17:c5:56:PHE:H	2.21	0.47
36:5:1009:A:OP2	86:5:4024:OHX:N2	2.48	0.47
36:5:1213:G:H4'	56:n0:90:MET:CG	2.35	0.47
36:5:1436:U:O2'	86:5:3896:OHX:N3	2.47	0.47
36:5:1617:G:H1	36:5:1827:C:H42	1.62	0.47
36:5:1664:G:H2'	36:5:1665:C:H6	1.79	0.47
36:5:1669:C:OP1	70:o4:24:LYS:HE2	2.14	0.47
36:5:2970:C:OP1	83:f:51:5CT:H1	2.14	0.47
37:7:60:G:N2	42:l5:274:GLN:HE22	2.13	0.47
45:l8:48:ARG:NH2	45:l8:49:TYR:HE2	2.12	0.47
47:m0:66:GLU:OE1	47:m0:69:ARG:NH2	2.47	0.47
47:m0:207:GLU:HB3	47:m0:211:ARG:HH12	1.78	0.47
47:m0:208:ASN:O	47:m0:212:GLU:HB2	2.14	0.47
55:m9:68:GLN:O	55:m9:71:ARG:N	2.42	0.47
56:n0:137:ARG:HG2	56:n0:139:TYR:CE1	2.49	0.47
59:n3:3:GLY:HA2	59:n3:40:LYS:HB3	1.97	0.47
75:o9:23:LEU:HD23	75:o9:24:PRO:HD2	1.96	0.47
1:2:427:C:H2'	1:2:428:A:O4'	2.15	0.47
1:2:1041:G:OP1	86:2:2123:OHX:N5	2.47	0.47
1:2:1663:G:C2	1:2:1664:C:C2	3.02	0.47
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:35:TRP:NE1	4:S2:37:PRO:HB3	2.29	0.47
7:S5:21:THR:O	7:S5:21:THR:OG1	2.32	0.47
9:S7:82:GLU:OE2	9:S7:90:VAL:N	2.46	0.47
21:C9:118:PRO:O	21:C9:120:GLY:N	2.44	0.47
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.96	0.47
36:1:40:A:C2	64:N8:40:HIS:CE1	3.02	0.47
36:1:578:A:H2'	41:L4:334:PHE:CD2	2.49	0.47
36:1:1654:A:O2'	70:O4:59:PRO:HD3	2.15	0.47
36:1:1870:C:H4'	36:1:3076:C:O2	2.14	0.47
36:1:2855:U:OP2	47:M0:6:ALA:HB3	2.15	0.47
44:L7:66:LYS:O	44:L7:70:LYS:HB2	2.14	0.47
46:L9:84:LYS:HE2	46:L9:191:LEU:HB3	1.94	0.47
52:M6:77:SER:OG	52:M6:106:GLU:OE1	2.21	0.47
53:M7:179:GLN:HA	53:M7:182:ILE:HB	1.96	0.47
71:O5:38:ARG:HD2	71:O5:41:LEU:HD13	1.94	0.47
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.14	0.47
74:O8:11:PHE:HD1	74:O8:12:LEU:HD22	1.79	0.47
1:6:1524:A:H2'	1:6:1525:A:C8	2.50	0.47
1:6:1565:C:OP1	20:c8:41:ARG:HG3	2.15	0.47
6:s4:29:PRO:O	6:s4:30:ARG:HB3	2.13	0.47
6:s4:92:LEU:HB2	6:s4:95:THR:HG22	1.97	0.47
6:s4:106:LYS:HB2	6:s4:108:ARG:HG3	1.97	0.47
10:s8:7:SER:O	10:s8:10:LYS:HB2	2.15	0.47
11:s9:129:ILE:HA	11:s9:134:ILE:HG12	1.96	0.47
11:s9:163:PRO:C	11:s9:165:GLY:H	2.22	0.47
16:c4:47:LYS:HG3	16:c4:62:LEU:HB3	1.96	0.47
17:c5:30:THR:O	17:c5:34:VAL:HG13	2.14	0.47
21:c9:6:VAL:HB	21:c9:14:PHE:CE1	2.49	0.47
21:c9:49:ASP:O	21:c9:53:TRP:HD1	1.97	0.47
35:sM:48:ARG:HH11	36:5:1017:C:H5''	1.80	0.47
36:5:832:G:OP1	86:5:3921:OHX:N3	2.48	0.47
36:5:1621:A:H2'	36:5:1622:U:C6	2.49	0.47
36:5:1927:G:C8	79:q3:16:VAL:HA	2.49	0.47
36:5:2180:G:H2'	36:5:2181:C:C6	2.49	0.47
36:5:2991:A:N3	53:m7:69:ARG:NH2	2.62	0.47
37:7:26:C:H2'	37:7:27:A:O4'	2.14	0.47
40:l3:113:GLU:HB3	40:l3:176:ALA:HB2	1.96	0.47
41:l4:10:SER:OG	41:l4:13:GLY:O	2.25	0.47
51:m5:89:VAL:C	51:m5:92:LEU:HD13	2.40	0.47
52:m6:113:ASP:OD2	52:m6:114:LYS:HG3	2.14	0.47
61:n5:65:GLN:HE21	71:o5:36:LEU:HD22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:n6:39:LEU:HD22	62:n6:43:TYR:CE2	2.41	0.47
70:o4:81:CYS:SG	70:o4:84:CYS:SG	3.11	0.47
74:o8:12:LEU:O	74:o8:15:THR:OG1	2.32	0.47
79:q3:56:THR:HA	79:q3:63:THR:HA	1.96	0.47
1:2:40:A:O2'	86:2:2052:OHX:N5	2.47	0.47
1:2:552:G:C6	1:2:553:G:C6	3.03	0.47
1:2:1032:G:C6	1:2:1104:U:C4	3.03	0.47
1:2:1699:G:H2'	1:2:1700:C:H5''	1.97	0.47
2:S0:14:ALA:O	2:S0:18:LEU:HG	2.15	0.47
4:S2:62:PRO:HB3	23:D1:29:HIS:HD2	1.77	0.47
6:S4:34:GLY:HA3	6:S4:35:PRO:HD3	1.64	0.47
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.97	0.47
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.97	0.47
15:C3:67:THR:O	15:C3:69:ASN:N	2.48	0.47
26:D4:5:VAL:O	26:D4:6:THR:HB	2.13	0.47
36:1:534:U:O2	56:N0:146:LYS:HA	2.15	0.47
36:1:544:C:H1'	36:1:548:G:H22	1.78	0.47
36:1:692:A:C4	36:1:693:A:C8	3.03	0.47
36:1:979:U:C2	36:1:980:A:C4	3.02	0.47
36:1:1103:A:N6	36:1:1363:A:H1'	2.30	0.47
36:1:1301:A:H4'	36:1:1302:A:O5'	2.14	0.47
36:1:2111:G:O6	36:1:3333:G:H3'	2.14	0.47
36:1:2592:G:H4'	36:1:2594:C:C2	2.49	0.47
36:1:2993:G:H2'	36:1:3142:A:N6	2.29	0.47
36:1:3275:U:H5'	69:O3:68:TRP:CZ2	2.41	0.47
38:4:49:G:OP2	71:O5:48:ARG:NH1	2.48	0.47
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.94	0.47
51:M5:11:GLN:HG2	51:M5:44:ARG:HH21	1.80	0.47
60:N4:36:SER:O	60:N4:40:PHE:N	2.42	0.47
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.49	0.47
1:6:3:U:H5'	4:s2:179:VAL:HG12	1.95	0.47
1:6:1166:A:H2'	1:6:1167:G:O4'	2.14	0.47
1:6:1294:G:H4'	2:s0:109:ASN:HB2	1.96	0.47
1:6:1398:U:H4'	1:6:1399:C:OP2	2.13	0.47
1:6:1638:G:C2	1:6:1639:C:H1'	2.49	0.47
2:s0:110:TYR:HE2	4:s2:64:LYS:HD2	1.80	0.47
3:s1:22:ASP:O	3:s1:25:THR:OG1	2.33	0.47
5:s3:105:MET:HG2	5:s3:122:VAL:HG21	1.96	0.47
8:s6:137:ARG:O	8:s6:141:ILE:HG13	2.14	0.47
17:c5:21:ASP:O	17:c5:24:LYS:N	2.47	0.47
25:d3:86:PHE:HB2	25:d3:120:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:e0:49:LEU:H	32:e0:49:LEU:HD22	1.79	0.47
34:sR:224:ASN:O	34:sR:228:LYS:HA	2.15	0.47
36:5:196:G:N2	36:5:198:A:H3'	2.29	0.47
36:5:212:G:C6	36:5:222:A:C5	3.03	0.47
36:5:401:U:O2'	36:5:402:A:OP1	2.29	0.47
36:5:419:G:O3'	36:5:420:G:H5'	2.15	0.47
36:5:1339:C:OP1	68:o2:61:LYS:NZ	2.48	0.47
36:5:2550:U:C6	45:l8:37:GLY:HA3	2.49	0.47
36:5:2997:G:H1'	36:5:3396:U:H5'	1.95	0.47
36:5:3006:A:H2'	36:5:3007:U:O4'	2.15	0.47
38:8:53:A:H2'	38:8:54:A:H8	1.79	0.47
42:l5:69:ILE:H	42:l5:69:ILE:HD12	1.80	0.47
44:l7:59:GLU:O	44:l7:63:ILE:HG13	2.15	0.47
45:l8:100:GLU:OE1	45:l8:108:ARG:HD3	2.15	0.47
56:n0:91:TYR:OH	56:n0:93:GLU:OE2	2.22	0.47
61:n5:50:ALA:HB2	71:o5:79:ASP:HB3	1.96	0.47
67:o1:10:ARG:HH12	67:o1:44:MET:HG2	1.80	0.47
1:2:1087:A:H2	1:2:1142:A:H4'	1.79	0.47
1:2:1125:A:C5	1:2:1126:G:H1'	2.50	0.47
1:2:1292:G:H2'	1:2:1293:U:C6	2.50	0.47
1:2:1727:G:H2'	1:2:1728:A:C8	2.49	0.47
2:S0:10:THR:OG1	2:S0:13:ASP:OD2	2.33	0.47
5:S3:64:ARG:NH1	5:S3:68:GLU:OE1	2.48	0.47
5:S3:164:VAL:O	5:S3:168:ILE:HG13	2.13	0.47
6:S4:163:ASP:O	6:S4:165:ALA:N	2.38	0.47
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.14	0.47
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.50	0.47
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	1.96	0.47
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.96	0.47
23:D1:16:LYS:HG2	23:D1:21:ASN:HA	1.95	0.47
25:D3:23:ARG:HB3	25:D3:29:TYR:CE1	2.50	0.47
28:D6:10:ARG:CB	28:D6:34:LYS:HA	2.45	0.47
35:SM:68:ARG:O	35:SM:69:ARG:C	2.57	0.47
36:1:407:A:C2	38:4:17:A:H1'	2.49	0.47
36:1:560:G:H4'	50:M4:73:PRO:HG2	1.97	0.47
36:1:846:A:H2'	36:1:847:A:O4'	2.14	0.47
36:1:953:G:C8	36:1:1117:G:C8	3.03	0.47
36:1:1346:G:C6	36:1:1347:U:C4	3.02	0.47
36:1:1549:U:H2'	36:1:1550:C:C6	2.49	0.47
36:1:1833:G:OP1	75:O9:10:LYS:HD2	2.15	0.47
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:77:G:P	56:N0:50:LYS:HG2	2.55	0.47
40:L3:116:ARG:NH2	40:L3:174:LYS:HD3	2.30	0.47
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.94	0.47
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.49	0.47
45:L8:54:GLU:HG3	45:L8:57:ARG:NH1	2.30	0.47
59:N3:129:VAL:O	59:N3:133:SER:OG	2.33	0.47
62:N6:73:VAL:HA	62:N6:80:VAL:HG23	1.97	0.47
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.97	0.47
1:6:25:C:OP2	1:6:25:C:H4'	2.15	0.47
1:6:138:A:N6	1:6:266:A:H61	2.11	0.47
1:6:542:A:O2'	1:6:543:C:O5'	2.25	0.47
1:6:582:U:H6	1:6:582:U:H5'	1.80	0.47
1:6:1202:A:OP1	86:6:2096:OHX:N1	2.48	0.47
1:6:1639:C:H2'	1:6:1640:C:O4'	2.14	0.47
2:s0:30:GLN:OE1	2:s0:31:VAL:N	2.47	0.47
7:s5:121:ILE:HG13	7:s5:195:ALA:HB1	1.95	0.47
7:s5:206:SER:O	7:s5:212:LYS:NZ	2.43	0.47
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.46	0.47
22:d0:41:ILE:HG13	22:d0:107:THR:HG21	1.96	0.47
23:d1:9:VAL:HG22	23:d1:10:GLU:H	1.79	0.47
36:5:130:A:H61	36:5:138:U:H3	1.62	0.47
36:5:436:A:H61	36:5:623:U:H3	1.63	0.47
36:5:1317:A:O2'	36:5:1318:A:H3'	2.14	0.47
36:5:1427:U:OP1	41:l4:44:LYS:NZ	2.40	0.47
36:5:2628:A:H1'	36:5:2798:C:C2	2.50	0.47
36:5:2808:A:N6	83:f:51:5CT:H12	2.29	0.47
36:5:2854:U:O3'	47:m0:160:PRO:HB3	2.14	0.47
86:5:4002:OHX:N6	86:5:4120:OHX:N4	2.63	0.47
38:8:134:G:OP1	61:n5:56:ARG:HG3	2.14	0.47
40:l3:3:HIS:C	40:l3:3:HIS:ND1	2.73	0.47
41:l4:219:LEU:O	41:l4:221:ASN:N	2.42	0.47
41:l4:311:HIS:CE1	41:l4:314:LYS:HA	2.49	0.47
42:l5:267:ALA:HA	42:l5:271:LYS:HE3	1.96	0.47
45:l8:97:TYR:O	45:l8:132:VAL:HG13	2.14	0.47
47:m0:76:MET:HE2	47:m0:76:MET:HB3	1.68	0.47
56:n0:46:GLN:HG3	56:n0:51:VAL:O	2.15	0.47
69:o3:26:ASN:HA	69:o3:88:ASN:ND2	2.30	0.47
70:o4:10:ARG:HD2	75:o9:4:GLN:CD	2.38	0.47
74:o8:10:GLN:HA	74:o8:13:GLU:CD	2.40	0.47
83:f:21:MET:N	83:f:80:MET:O	2.43	0.47
1:2:344:A:C6	1:2:345:U:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:610:G:H2'	1:2:614:C:C5	2.50	0.47
1:2:862:A:H4'	1:2:863:A:O5'	2.15	0.47
1:2:1236:A:H1'	33:E1:138:ARG:HH12	1.80	0.47
1:2:1288:G:H1	1:2:1327:C:H42	1.61	0.47
1:2:1490:C:H4'	1:2:1491:U:OP1	2.15	0.47
1:2:1524:A:H2'	1:2:1525:A:H8	1.78	0.47
3:S1:140:ILE:HG21	3:S1:213:ARG:HD3	1.96	0.47
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.15	0.47
4:S2:87:GLN:HA	4:S2:95:ARG:O	2.14	0.47
6:S4:131:LEU:HD22	6:S4:137:PRO:HB3	1.97	0.47
9:S7:133:THR:HB	9:S7:134:GLU:H	1.56	0.47
14:C2:63:VAL:HG11	14:C2:94:ALA:HA	1.97	0.47
21:C9:89:ARG:HB3	21:C9:90:PRO:HD2	1.97	0.47
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	1.97	0.47
24:D2:72:CYS:HB3	24:D2:129:VAL:HG13	1.95	0.47
25:D3:109:ARG:NH2	25:D3:114:LYS:O	2.37	0.47
26:D4:29:HIS:CE1	26:D4:34:ASN:H	2.32	0.47
36:1:224:C:O2	62:N6:103:LYS:NZ	2.48	0.47
36:1:728:G:OP1	86:1:3996:OHX:N3	2.47	0.47
36:1:784:A:C6	54:M8:93:ILE:HG22	2.49	0.47
36:1:1897:G:H2'	36:1:1898:G:O4'	2.15	0.47
36:1:1936:A:H2'	36:1:1937:U:O4'	2.15	0.47
36:1:2193:U:O2	36:1:2193:U:H2'	2.14	0.47
36:1:2419:A:H1'	36:1:2804:A:O4'	2.14	0.47
36:1:2616:C:C2'	36:1:2617:U:H5'	2.44	0.47
37:3:62:U:O4	37:3:63:A:N6	2.47	0.47
40:L3:122:TRP:CZ2	40:L3:127:LYS:HE3	2.50	0.47
41:L4:362:ASP:C	56:N0:26:ARG:HH12	2.22	0.47
42:L5:84:PRO:O	42:L5:87:GLY:N	2.27	0.47
44:L7:142:SER:O	44:L7:146:GLN:HG3	2.15	0.47
47:M0:63:GLU:H	47:M0:63:GLU:HG2	1.42	0.47
53:M7:169:THR:HG23	69:O3:60:ARG:NH1	2.30	0.47
61:N5:139:ILE:HD11	61:N5:141:TYR:CE2	2.49	0.47
72:O6:55:ARG:O	72:O6:58:ILE:HD13	2.14	0.47
73:O7:28:HIS:CD2	73:O7:31:LYS:HE2	2.48	0.47
1:6:79:C:H4'	8:s6:173:PRO:O	2.15	0.47
1:6:84:A:H2'	1:6:85:A:O4'	2.15	0.47
1:6:123:G:N2	6:s4:146:THR:HG21	2.29	0.47
1:6:396:G:N2	1:6:399:A:OP2	2.46	0.47
1:6:512:A:H2'	1:6:513:U:H6	1.80	0.47
1:6:675:U:H2'	1:6:676:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:947:U:H2'	1:6:948:G:H8	1.80	0.47
1:6:1688:U:H2'	1:6:1689:A:C8	2.50	0.47
1:6:1762:A:H1'	1:6:1783:C:OP1	2.14	0.47
2:s0:71:GLU:HA	2:s0:95:ALA:N	2.30	0.47
2:s0:172:LEU:HD22	2:s0:176:LEU:HG	1.96	0.47
3:s1:110:LEU:HD11	3:s1:213:ARG:HD2	1.95	0.47
7:s5:43:PHE:HD2	7:s5:46:TRP:CD1	2.33	0.47
9:s7:177:THR:OG1	9:s7:178:GLY:N	2.48	0.47
11:s9:44:ARG:HG2	11:s9:45:ILE:HD13	1.96	0.47
11:s9:92:LYS:HB2	11:s9:95:TYR:HD2	1.79	0.47
12:c0:38:LYS:O	12:c0:41:TYR:HB2	2.14	0.47
13:c1:34:TRP:CZ2	13:c1:36:LYS:HB3	2.50	0.47
25:d3:3:LYS:HB2	25:d3:7:ARG:HH21	1.79	0.47
25:d3:109:ARG:NH2	25:d3:112:LYS:HD2	2.30	0.47
26:d4:50:ALA:O	26:d4:51:GLU:HB3	2.15	0.47
26:d4:125:LEU:HD12	26:d4:128:LYS:HD2	1.96	0.47
34:sR:123:ILE:HD13	34:sR:169:ILE:HG21	1.97	0.47
35:sM:33:LYS:HD2	36:5:2667:A:H5''	1.95	0.47
36:5:8:C:H2'	36:5:9:U:O4'	2.14	0.47
36:5:30:G:O5'	51:m5:172:ARG:HD2	2.15	0.47
36:5:40:A:OP2	64:n8:36:GLY:N	2.40	0.47
36:5:65:A:H4'	36:5:66:A:O5'	2.15	0.47
36:5:114:A:N1	36:5:266:A:O2'	2.39	0.47
36:5:289:A:H2'	36:5:290:G:H8	1.79	0.47
36:5:777:U:O4	86:5:3997:OHX:N1	2.48	0.47
36:5:1186:G:N3	56:n0:112:ALA:HB1	2.30	0.47
36:5:1329:U:O2'	36:5:1330:A:OP1	2.30	0.47
36:5:1725:C:H2'	36:5:1726:C:C6	2.50	0.47
36:5:1856:C:H2'	36:5:1857:C:C6	2.50	0.47
36:5:2581:U:H2'	36:5:2582:C:C6	2.49	0.47
36:5:2600:C:OP1	51:m5:93:LYS:NZ	2.48	0.47
36:5:2677:G:H3'	36:5:2678:A:H5''	1.96	0.47
36:5:2970:C:P	83:f:51:5CT:H6	2.55	0.47
36:5:3007:U:H5'	52:m6:73:PHE:HD1	1.80	0.47
36:5:3112:G:O6	36:5:3120:C:H5''	2.14	0.47
36:5:3268:A:O2'	36:5:3269:U:H2'	2.15	0.47
37:7:1:G:H21	42:l5:269:SER:CB	2.28	0.47
37:7:22:A:H1'	42:l5:272:TYR:CZ	2.49	0.47
37:7:77:G:O4'	56:n0:50:LYS:HE3	2.15	0.47
42:l5:42:ALA:HB2	57:n1:67:VAL:HG12	1.96	0.47
42:l5:181:PRO:HD2	42:l5:195:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:98:VAL:HA	43:l6:101:PHE:CD2	2.49	0.47
49:m3:54:LEU:HD22	49:m3:54:LEU:HA	1.67	0.47
50:m4:32:LEU:HD21	50:m4:94:TRP:CE2	2.50	0.47
51:m5:84:PRO:HA	51:m5:87:GLN:HB2	1.96	0.47
63:n7:50:PRO:HD3	63:n7:68:ILE:HG12	1.97	0.47
70:o4:85:VAL:HA	70:o4:88:ARG:HB2	1.97	0.47
74:o8:38:PHE:CE1	74:o8:57:ASN:HB3	2.50	0.47
83:f:110:LYS:NZ	83:f:113:VAL:HG23	2.29	0.47
1:2:401:A:O2'	1:2:402:C:H4'	2.14	0.47
1:2:740:A:H2'	1:2:741:C:H5''	1.97	0.47
1:2:1278:G:H2'	1:2:1279:C:O4'	2.15	0.47
1:2:1410:A:H5''	18:C6:118:ILE:HD13	1.96	0.47
2:S0:103:THR:O	2:S0:106:SER:OG	2.31	0.47
3:S1:33:LYS:HD2	3:S1:95:ASN:HD21	1.79	0.47
5:S3:167:PHE:CE1	5:S3:192:PRO:HB3	2.50	0.47
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.15	0.47
9:S7:133:THR:HG21	9:S7:162:ILE:HD11	1.97	0.47
11:S9:142:ASN:HD21	26:D4:64:PHE:HZ	1.62	0.47
21:C9:73:VAL:HA	21:C9:76:LEU:HD12	1.96	0.47
25:D3:86:PHE:O	25:D3:124:VAL:HG23	2.14	0.47
34:SR:133:VAL:HG12	34:SR:141:LEU:HB2	1.97	0.47
36:1:437:G:H2'	36:1:438:A:C8	2.49	0.47
36:1:517:G:P	44:L7:60:ARG:HH12	2.38	0.47
36:1:993:G:C5	36:1:2637:A:C2	3.03	0.47
36:1:1132:C:H4'	36:1:2865:U:O2'	2.14	0.47
36:1:1560:G:N1	36:1:1580:A:N1	2.63	0.47
36:1:2910:A:O2'	36:1:3130:A:N1	2.44	0.47
39:L2:83:HIS:HB3	79:Q3:64:VAL:HG22	1.95	0.47
40:L3:103:THR:HG21	40:L3:147:GLU:CD	2.40	0.47
42:L5:85:ARG:HD3	42:L5:86:TYR:CZ	2.50	0.47
42:L5:201:GLY:O	42:L5:203:HIS:N	2.48	0.47
44:L7:123:THR:O	44:L7:126:LEU:HB2	2.13	0.47
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.83	0.47
47:M0:36:LEU:HD13	47:M0:87:LEU:HD13	1.97	0.47
58:N2:20:SER:O	58:N2:24:GLU:HG2	2.14	0.47
61:N5:49:LYS:O	61:N5:51:VAL:N	2.47	0.47
71:O5:64:GLU:HA	71:O5:67:ARG:HB3	1.97	0.47
1:6:78:A:H1'	8:s6:175:ILE:HG12	1.97	0.47
1:6:345:U:H1'	1:6:346:G:C8	2.50	0.47
1:6:366:A:OP1	1:6:758:U:O2'	2.22	0.47
1:6:1769:U:OP2	86:6:2111:OHX:N2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:148:LEU:HA	23:d1:4:ASP:HB2	1.95	0.47
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.80	0.47
14:c2:81:ASP:O	14:c2:83:GLU:N	2.45	0.47
25:d3:78:LYS:HG3	25:d3:79:ASN:HD22	1.80	0.47
30:d8:15:VAL:HA	30:d8:28:VAL:HG23	1.97	0.47
36:5:1507:G:H1'	53:m7:139:TYR:CE1	2.50	0.47
36:5:2267:C:H2'	36:5:2268:U:H6	1.78	0.47
36:5:2674:A:OP2	86:5:4070:OHX:N4	2.48	0.47
39:l2:105:GLY:HA2	39:l2:139:HIS:CE1	2.50	0.47
40:l3:183:LEU:O	40:l3:191:LYS:NZ	2.37	0.47
43:l6:52:VAL:HG13	43:l6:67:GLY:HA2	1.97	0.47
59:n3:101:VAL:HG21	59:n3:109:MET:HG2	1.96	0.47
61:n5:106:ASP:HB2	61:n5:130:TYR:CE1	2.50	0.47
69:o3:54:ARG:HG2	69:o3:64:ILE:HD13	1.97	0.47
3:S1:99:ASN:OD1	3:S1:100:PHE:N	2.48	0.47
3:S1:105:PHE:HB3	3:S1:110:LEU:HD11	1.97	0.47
5:S3:37:VAL:HG12	5:S3:50:ILE:HD13	1.97	0.47
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.96	0.47
11:S9:136:VAL:O	11:S9:155:HIS:HB3	2.15	0.47
12:C0:60:SER:O	12:C0:62:GLN:N	2.48	0.47
15:C3:136:PRO:HA	15:C3:137:PRO:HD2	1.67	0.47
16:C4:84:ARG:HG2	16:C4:85:ALA:O	2.14	0.47
23:D1:18:SER:OG	23:D1:54:ALA:O	2.33	0.47
24:D2:31:SER:O	24:D2:35:ILE:HG12	2.14	0.47
36:1:1571:A:H2'	36:1:1572:U:O4'	2.15	0.47
36:1:2144:A:H1'	36:1:2281:A:N6	2.30	0.47
36:1:2224:A:N1	36:1:2783:U:O2'	2.40	0.47
36:1:2663:G:H4'	42:L5:152:ARG:NH1	2.30	0.47
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.13	0.47
46:L9:155:SER:O	46:L9:158:ALA:HB3	2.15	0.47
46:L9:169:ASN:O	46:L9:170:LYS:HE3	2.15	0.47
49:M3:131:LYS:HG3	49:M3:132:ALA:H	1.79	0.47
53:M7:97:ASN:O	53:M7:101:ASN:ND2	2.47	0.47
61:N5:129:ASP:HB2	61:N5:130:TYR:CD1	2.50	0.47
68:O2:20:HIS:CG	68:O2:42:VAL:HG21	2.49	0.47
1:6:183:U:H2'	1:6:184:C:O4'	2.15	0.47
1:6:217:A:O2'	1:6:218:A:H8	1.97	0.47
1:6:481:A:H61	1:6:507:U:H3	1.63	0.47
1:6:747:C:H2'	1:6:748:U:C6	2.50	0.47
1:6:914:G:H5'	1:6:914:G:H8	1.80	0.47
1:6:1799:U:H3'	28:d6:97:PRO:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:49:LYS:HD2	4:s2:243:TYR:CE1	2.50	0.47
4:s2:132:ALA:O	4:s2:135:SER:OG	2.29	0.47
8:s6:31:ARG:HH21	8:s6:101:ILE:HD11	1.80	0.47
8:s6:88:ARG:HG3	8:s6:91:GLU:HB2	1.97	0.47
11:s9:59:LEU:HD22	11:s9:69:ARG:HA	1.96	0.47
15:c3:23:PRO:HG2	15:c3:26:PHE:HB2	1.97	0.47
15:c3:65:VAL:C	15:c3:67:THR:H	2.20	0.47
17:c5:90:ILE:HG21	17:c5:109:PRO:HG3	1.97	0.47
19:c7:90:ALA:HB3	19:c7:95:ARG:N	2.29	0.47
26:d4:57:VAL:HG12	26:d4:73:GLY:HA3	1.97	0.47
33:e1:108:VAL:HB	33:e1:114:VAL:HG22	1.96	0.47
36:5:274:G:H2'	36:5:275:U:O4'	2.14	0.47
36:5:359:U:H4'	36:5:817:A:N6	2.30	0.47
36:5:1283:C:OP1	81:p0:81:LYS:HD3	2.15	0.47
36:5:1680:G:H2'	36:5:1681:U:C6	2.50	0.47
36:5:2274:U:OP2	86:5:3899:OHX:N6	2.48	0.47
36:5:2631:U:OP2	57:n1:4:SER:HB3	2.15	0.47
41:l4:42:VAL:C	41:l4:44:LYS:N	2.71	0.47
44:l7:168:ILE:H	44:l7:168:ILE:HG13	1.46	0.47
50:m4:20:VAL:HG13	50:m4:68:LEU:O	2.14	0.47
50:m4:108:ARG:NH2	52:m6:196:ALA:O	2.48	0.47
50:m4:127:LYS:O	50:m4:131:VAL:HG23	2.15	0.47
53:m7:30:ARG:HA	53:m7:119:VAL:CG1	2.45	0.47
70:o4:41:ARG:HA	70:o4:56:THR:HG22	1.97	0.47
1:2:505:A:H3'	1:2:506:A:C5'	2.44	0.47
1:2:610:G:H2'	1:2:614:C:C6	2.50	0.47
1:2:917:U:O2	16:C4:41:ARG:NH1	2.46	0.47
1:2:995:A:H2'	1:2:996:U:O4'	2.15	0.47
2:S0:33:GLN:NE2	23:D1:63:GLY:O	2.48	0.47
13:C1:91:LEU:HB3	13:C1:100:TYR:HB3	1.96	0.47
36:1:822:G:H1'	39:L2:15:ILE:HG22	1.96	0.47
36:1:840:C:H4'	55:M9:128:LYS:HD3	1.96	0.47
36:1:871:U:H2'	36:1:872:U:C6	2.50	0.47
36:1:1881:A:OP2	86:1:3900:OHX:N1	2.48	0.47
36:1:1894:U:O2'	36:1:3054:U:OP1	2.31	0.47
36:1:3010:U:OP2	86:1:4087:OHX:N5	2.48	0.47
36:1:3137:C:H5''	40:L3:276:THR:HG21	1.96	0.47
38:4:107:G:OP2	86:4:229:OHX:N6	2.48	0.47
39:L2:149:ARG:HH12	39:L2:155:LYS:HD3	1.80	0.47
39:L2:209:HIS:ND1	39:L2:210:PRO:HD2	2.30	0.47
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:337:GLU:O	41:L4:339:LEU:N	2.43	0.47
42:L5:209:GLU:HG2	42:L5:233:ALA:HB3	1.97	0.47
44:L7:24:GLU:O	44:L7:26:VAL:N	2.44	0.47
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.43	0.47
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.45	0.47
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.45	0.47
59:N3:30:GLY:HA3	59:N3:66:LYS:HD2	1.97	0.47
59:N3:109:MET:HG3	59:N3:132:ASN:ND2	2.30	0.47
63:N7:3:LYS:O	63:N7:5:LEU:N	2.48	0.47
66:O0:13:LYS:HB3	66:O0:100:ILE:HG22	1.97	0.47
71:O5:85:THR:O	71:O5:89:ARG:HB2	2.14	0.47
73:O7:52:LYS:O	73:O7:55:ARG:HB3	2.14	0.47
1:6:138:A:H62	1:6:266:A:N6	2.12	0.47
1:6:1433:G:H22	31:d9:45:GLU:CD	2.23	0.47
1:6:1478:G:C4	1:6:1479:A:C8	3.03	0.47
1:6:1648:A:H2'	1:6:1649:G:C8	2.50	0.47
2:s0:183:ARG:HB3	2:s0:191:ARG:HG2	1.96	0.47
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.50	0.47
7:s5:20:PHE:CE1	7:s5:34:GLN:HB3	2.49	0.47
13:c1:97:TYR:CD1	25:d3:15:LEU:HB3	2.50	0.47
36:5:594:U:H5''	36:5:609:G:O6	2.15	0.47
36:5:728:G:OP1	86:5:4131:OHX:N4	2.48	0.47
36:5:3058:U:OP1	67:o1:28:ARG:NH2	2.48	0.47
36:5:3095:U:H2'	36:5:3096:C:H6	1.80	0.47
42:l5:95:TRP:CZ2	42:l5:181:PRO:HD3	2.50	0.47
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.29	0.47
61:n5:73:MET:HA	61:n5:73:MET:HE3	1.97	0.47
79:q3:6:LYS:HG2	79:q3:7:LYS:HG3	1.97	0.47
83:f:37:ARG:NH2	83:f:63:ASP:OD2	2.48	0.47
1:2:365:G:N7	86:2:2074:OHX:N5	2.63	0.46
1:2:767:U:H6	11:S9:141:VAL:HA	1.80	0.46
1:2:802:G:H21	24:D2:107:SER:HB3	1.80	0.46
1:2:851:U:H2'	1:2:852:C:C6	2.51	0.46
1:2:891:A:H2'	1:2:892:A:C8	2.50	0.46
1:2:1600:A:O2'	1:2:1602:C:N4	2.49	0.46
2:S0:185:ARG:HG3	23:D1:47:PRO:HD3	1.96	0.46
3:S1:179:SER:HB3	3:S1:183:GLN:HB2	1.96	0.46
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	1.97	0.46
13:C1:8:GLN:OE1	13:C1:14:GLN:N	2.48	0.46
28:D6:82:ARG:O	28:D6:84:VAL:HG12	2.14	0.46
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.50	0.46
36:1:677:A:H4'	36:1:678:G:O5'	2.15	0.46
36:1:1331:U:H4'	36:1:1332:A:OP2	2.14	0.46
36:1:1577:G:H2'	36:1:1578:C:O4'	2.15	0.46
36:1:1750:A:H4'	74:O8:26:LYS:HZ1	1.80	0.46
36:1:1833:G:O2'	75:O9:4:GLN:HA	2.15	0.46
36:1:1951:C:H3'	36:1:1952:G:C8	2.50	0.46
36:1:2618:G:N3	65:N9:3:LYS:NZ	2.63	0.46
39:L2:113:VAL:HG22	39:L2:134:VAL:HG22	1.96	0.46
44:L7:66:LYS:HG3	44:L7:76:TYR:HD2	1.79	0.46
44:L7:216:VAL:HG21	44:L7:219:LYS:HA	1.95	0.46
79:Q3:33:GLN:HE21	79:Q3:49:ARG:NH1	2.13	0.46
1:6:381:C:OP1	11:s9:2:PRO:HB3	2.15	0.46
1:6:460:A:H3'	1:6:461:G:H8	1.80	0.46
1:6:504:U:O4	1:6:505:A:N6	2.48	0.46
1:6:539:G:H8	1:6:539:G:OP2	1.98	0.46
1:6:1537:C:N3	86:6:2124:OHX:N4	2.62	0.46
3:s1:23:PRO:O	3:s1:26:ARG:HD2	2.16	0.46
4:s2:88:LYS:HE2	4:s2:89:GLN:H	1.80	0.46
6:s4:9:LEU:HD13	6:s4:28:ALA:HB3	1.98	0.46
11:s9:83:VAL:HA	11:s9:149:ARG:HA	1.97	0.46
21:c9:105:LEU:HD13	21:c9:122:ARG:HD3	1.97	0.46
35:sM:39:PRO:HD3	48:m1:52:TYR:CE1	2.50	0.46
36:5:19:U:H3	38:8:140:G:H1	1.63	0.46
36:5:143:G:OP2	86:5:3933:OHX:N1	2.48	0.46
36:5:148:G:OP2	51:m5:4:TYR:OH	2.22	0.46
36:5:364:G:OP1	41:l4:60:THR:HG23	2.15	0.46
36:5:979:U:C2	36:5:980:A:C2	3.04	0.46
36:5:1947:G:N7	86:5:4105:OHX:N6	2.63	0.46
36:5:2304:C:C5	36:5:2305:G:C6	3.03	0.46
36:5:2344:U:H2'	36:5:2345:A:H8	1.79	0.46
36:5:2736:A:O3'	57:n1:71:SER:OG	2.32	0.46
36:5:2762:A:O2'	54:m8:176:ARG:NH2	2.44	0.46
36:5:3215:A:H5'	50:m4:121:MET:HE1	1.96	0.46
36:5:3284:G:OP2	36:5:3284:G:H8	1.98	0.46
36:5:3351:U:H5'	36:5:3352:U:OP2	2.15	0.46
37:7:94:C:H2'	37:7:95:A:H8	1.78	0.46
41:l4:138:ARG:HH21	41:l4:240:PRO:HG2	1.79	0.46
43:l6:49:GLY:O	43:l6:163:PHE:N	2.30	0.46
49:m3:64:LYS:HD3	49:m3:65:TYR:CE1	2.50	0.46
54:m8:166:LEU:HD23	54:m8:166:LEU:HA	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:57:LEU:HD12	70:o4:62:TYR:HD1	1.79	0.46
71:o5:78:LYS:HA	71:o5:81:ARG:HB2	1.97	0.46
1:2:625:C:O2'	1:2:939:A:N3	2.46	0.46
1:2:934:C:N3	1:2:1077:C:H4'	2.30	0.46
1:2:1217:A:H8	1:2:1217:A:H5'	1.79	0.46
1:2:1657:U:C2	86:2:2058:OHX:N5	2.83	0.46
1:2:1718:G:H2'	1:2:1719:A:H8	1.79	0.46
5:S3:190:ARG:NH2	5:S3:195:SER:HA	2.30	0.46
5:S3:209:ILE:HG22	19:C7:38:ILE:O	2.14	0.46
6:S4:126:VAL:HA	6:S4:141:THR:HG22	1.96	0.46
11:S9:171:ARG:O	11:S9:175:ARG:HB2	2.15	0.46
25:D3:14:LYS:O	25:D3:18:HIS:HB2	2.16	0.46
26:D4:104:SER:HB3	26:D4:107:GLN:HG3	1.98	0.46
36:1:112:U:O2'	36:1:113:C:P	2.73	0.46
36:1:297:G:O2'	72:O6:33:ALA:HA	2.15	0.46
36:1:565:U:H2'	36:1:566:G:H8	1.79	0.46
36:1:574:U:H2'	36:1:575:G:C8	2.51	0.46
36:1:1345:G:N7	86:1:3856:OHX:N4	2.63	0.46
36:1:2249:G:HO2'	36:1:2250:G:P	2.38	0.46
36:1:3174:A:C2'	36:1:3175:U:H5'	2.45	0.46
36:1:3218:A:H4'	36:1:3219:G:O5'	2.16	0.46
36:1:3318:G:O3'	36:1:3319:U:H3'	2.15	0.46
39:L2:61:VAL:HG12	39:L2:63:PHE:CE1	2.51	0.46
44:L7:140:SER:O	44:L7:144:ILE:HG13	2.16	0.46
46:L9:84:LYS:O	46:L9:188:THR:HG23	2.16	0.46
50:M4:20:VAL:HA	50:M4:34:ALA:HA	1.96	0.46
50:M4:103:ILE:O	50:M4:107:GLU:HG3	2.15	0.46
59:N3:104:ASN:ND2	59:N3:106:LYS:H	2.12	0.46
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	3.03	0.46
1:6:138:A:N3	1:6:138:A:H5''	2.31	0.46
1:6:427:C:O2'	1:6:459:G:N3	2.47	0.46
1:6:1613:U:OP2	7:s5:84:LYS:NZ	2.45	0.46
1:6:1680:G:O6	86:6:2170:OHX:N4	2.49	0.46
5:s3:115:ILE:HD12	5:s3:116:ARG:H	1.79	0.46
8:s6:175:ILE:HB	8:s6:178:LEU:HD13	1.97	0.46
11:s9:78:ARG:NH2	11:s9:82:ARG:HG3	2.30	0.46
11:s9:129:ILE:HA	11:s9:134:ILE:CG1	2.45	0.46
36:5:73:C:OP1	72:o6:14:GLY:HA2	2.16	0.46
36:5:405:U:H2'	36:5:406:G:H5'	1.97	0.46
36:5:913:A:H2	36:5:2134:G:N3	2.13	0.46
36:5:1253:U:O2	36:5:1263:A:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1452:A:H1'	36:5:2347:U:O5'	2.15	0.46
36:5:2133:U:O4	36:5:2147:A:H2	1.98	0.46
36:5:2342:U:H2'	36:5:2343:C:H6	1.80	0.46
36:5:2423:U:H2'	36:5:2424:A:C8	2.50	0.46
36:5:2697:A:H2'	36:5:2698:G:C8	2.49	0.46
36:5:2880:U:O2	40:l3:250:ALA:HB3	2.15	0.46
37:7:94:C:H2'	37:7:95:A:C8	2.50	0.46
38:8:111:A:OP1	73:o7:32:LYS:NZ	2.40	0.46
38:8:145:U:H2'	38:8:146:U:C6	2.51	0.46
42:l5:148:ILE:HD12	42:l5:159:VAL:HG21	1.97	0.46
42:l5:238:ASP:O	42:l5:242:SER:HB3	2.15	0.46
45:l8:68:ARG:HA	45:l8:236:GLY:O	2.15	0.46
57:n1:48:ILE:HG13	57:n1:94:GLU:HG2	1.97	0.46
59:n3:6:ALA:HB2	59:n3:126:TRP:CH2	2.49	0.46
62:n6:103:LYS:HA	62:n6:103:LYS:HD3	1.65	0.46
66:o0:25:LEU:HD13	66:o0:87:VAL:HG11	1.98	0.46
68:o2:74:PHE:HB3	68:o2:85:LEU:HD11	1.97	0.46
70:o4:81:CYS:O	70:o4:83:ASN:N	2.48	0.46
72:o6:89:GLU:O	72:o6:93:ILE:HG13	2.15	0.46
1:2:158:U:O2'	1:2:159:U:H3'	2.15	0.46
1:2:367:A:OP1	86:S9:201:OHX:N6	2.48	0.46
1:2:1208:A:N1	1:2:1455:G:N2	2.59	0.46
1:2:1257:U:H2'	12:C0:2:LEU:HD12	1.97	0.46
1:2:1450:U:H2'	1:2:1451:C:C6	2.50	0.46
1:2:1546:G:OP1	20:C8:123:ARG:HD2	2.15	0.46
1:2:1585:U:H3	1:2:1611:A:H2	1.57	0.46
3:S1:104:ASP:HA	3:S1:214:LYS:HG3	1.97	0.46
6:S4:71:LYS:HA	6:S4:76:VAL:O	2.15	0.46
12:C0:53:GLY:O	12:C0:55:VAL:N	2.42	0.46
14:C2:31:VAL:HG21	14:C2:136:ILE:HD13	1.97	0.46
16:C4:12:GLN:HG3	16:C4:111:ARG:HG3	1.97	0.46
25:D3:136:TRP:O	32:E0:15:LYS:NZ	2.49	0.46
26:D4:45:ALA:HB1	26:D4:51:GLU:HA	1.96	0.46
26:D4:92:VAL:HG21	26:D4:99:LYS:HG2	1.97	0.46
36:1:171:G:H2'	36:1:172:G:O4'	2.16	0.46
36:1:279:U:H2'	36:1:280:U:C6	2.50	0.46
36:1:975:C:H2'	36:1:976:U:H6	1.80	0.46
36:1:1316:C:C5	52:M6:130:LYS:HA	2.50	0.46
36:1:1764:U:H5''	55:M9:43:LYS:NZ	2.30	0.46
36:1:2166:A:O3'	51:M5:72:LYS:NZ	2.48	0.46
36:1:2553:U:H5	66:O0:54:SER:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2616:C:H2'	36:1:2617:U:H5'	1.97	0.46
36:1:2904:U:H2'	36:1:2905:U:C6	2.50	0.46
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.56	0.46
36:1:3393:U:H2'	36:1:3394:U:C6	2.50	0.46
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	1.96	0.46
40:L3:95:THR:O	40:L3:97:ARG:N	2.48	0.46
53:M7:32:THR:HA	53:M7:58:ILE:HG21	1.96	0.46
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.14	0.46
57:N1:14:MET:HE1	57:N1:55:LYS:HA	1.97	0.46
61:N5:60:TYR:CD1	71:O5:25:LYS:HD3	2.50	0.46
61:N5:132:ALA:O	61:N5:136:ALA:N	2.44	0.46
62:N6:88:GLU:HG3	62:N6:94:SER:HB2	1.98	0.46
1:6:271:A:C2	1:6:285:G:C6	3.04	0.46
1:6:1255:G:H4'	1:6:1256:A:OP1	2.15	0.46
1:6:1558:U:H3	17:c5:122:THR:CG2	2.29	0.46
4:s2:185:LYS:O	4:s2:189:GLN:N	2.49	0.46
9:s7:160:GLN:HA	9:s7:163:ASP:HB2	1.96	0.46
11:s9:28:LEU:HD11	32:e0:39:LEU:HB3	1.97	0.46
16:c4:82:LYS:HB3	16:c4:118:VAL:HG21	1.97	0.46
36:5:118:U:H5	36:5:119:U:C4	2.34	0.46
36:5:269:G:H5'	51:m5:120:TRP:CE3	2.51	0.46
36:5:524:U:H2'	36:5:525:C:H5'	1.97	0.46
36:5:993:G:N3	36:5:2637:A:H2'	2.30	0.46
36:5:1192:C:C5	86:5:4001:OHX:N6	2.83	0.46
36:5:1340:G:H2'	36:5:1341:U:H6	1.81	0.46
36:5:2261:G:H21	36:5:2262:A:N6	2.13	0.46
36:5:3298:C:H2'	36:5:3299:A:O4'	2.15	0.46
86:5:4000:OHX:N1	68:o2:14:THR:O	2.49	0.46
46:l9:86:TYR:CD2	46:l9:151:VAL:HG13	2.51	0.46
60:n4:115:LYS:O	60:n4:119:GLU:HG3	2.15	0.46
63:n7:3:LYS:HD3	63:n7:4:PHE:N	2.31	0.46
1:2:417:A:H4'	1:2:418:G:O5'	2.15	0.46
1:2:1503:A:H2'	1:2:1504:G:O4'	2.15	0.46
1:2:1525:A:OP1	21:C9:93:HIS:ND1	2.47	0.46
1:2:1584:G:H22	1:2:1611:A:P	2.39	0.46
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.15	0.46
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.97	0.46
4:S2:78:ASP:HA	4:S2:104:VAL:HA	1.97	0.46
4:S2:90:THR:HG21	4:S2:95:ARG:NH1	2.30	0.46
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.15	0.46
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.15	0.46
36:1:212:G:H2'	41:L4:221:ASN:OD1	2.16	0.46
36:1:603:A:H2'	36:1:604:G:O4'	2.16	0.46
36:1:665:A:OP1	51:M5:203:ARG:HD2	2.15	0.46
36:1:1064:A:H5''	36:1:1066:G:O4'	2.16	0.46
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.16	0.46
36:1:1128:U:OP1	47:M0:4:ARG:NH1	2.42	0.46
36:1:1196:C:O2	86:1:3889:OHX:N2	2.49	0.46
36:1:1472:U:H5'	55:M9:4:LEU:HB2	1.98	0.46
36:1:1719:G:H5''	55:M9:110:ARG:HH22	1.81	0.46
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.28	0.46
36:1:3234:A:H2	36:1:3253:G:H22	1.63	0.46
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.98	0.46
40:L3:115:LYS:HA	40:L3:118:PHE:HD1	1.80	0.46
41:L4:138:ARG:NH1	41:L4:138:ARG:O	2.48	0.46
41:L4:178:LEU:O	41:L4:182:LEU:HD23	2.15	0.46
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.98	0.46
46:L9:151:VAL:O	46:L9:155:SER:OG	2.33	0.46
47:M0:165:ILE:H	47:M0:165:ILE:HG12	1.45	0.46
59:N3:62:VAL:HG21	59:N3:69:LEU:HB3	1.97	0.46
60:N4:3:VAL:HG12	60:N4:12:LYS:HB3	1.98	0.46
1:6:512:A:H2'	1:6:513:U:C6	2.50	0.46
1:6:772:G:OP1	11:s9:7:THR:HG23	2.16	0.46
1:6:1442:U:H4'	1:6:1447:C:C5	2.50	0.46
2:s0:148:ASP:OD1	2:s0:149:LEU:N	2.48	0.46
6:s4:106:LYS:HG3	6:s4:108:ARG:CZ	2.46	0.46
8:s6:64:LYS:O	8:s6:67:VAL:HG22	2.15	0.46
8:s6:123:GLY:O	8:s6:127:THR:HG22	2.15	0.46
9:s7:31:SER:N	9:s7:32:PRO:HD2	2.30	0.46
17:c5:24:LYS:O	17:c5:28:MET:HG3	2.15	0.46
22:d0:71:PRO:O	22:d0:72:ASN:ND2	2.48	0.46
36:5:873:C:H4'	36:5:874:U:OP2	2.15	0.46
36:5:1433:A:P	68:o2:19:ARG:HH22	2.39	0.46
36:5:2221:G:N2	36:5:2224:A:OP2	2.34	0.46
36:5:2765:C:OP1	64:n8:55:LYS:NZ	2.35	0.46
36:5:2768:U:H2'	36:5:2769:A:C8	2.51	0.46
36:5:3108:G:H21	46:l9:163:GLN:HE22	1.63	0.46
36:5:3193:C:H2'	36:5:3194:C:C6	2.51	0.46
36:5:3225:C:C2	36:5:3226:A:C8	3.03	0.46
42:l5:261:THR:OG1	42:l5:264:GLN:HG3	2.15	0.46
43:l6:66:SER:C	43:l6:68:PRO:HA	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.40	0.46
50:m4:47:ASP:OD1	50:m4:55:ARG:HB2	2.15	0.46
55:m9:138:LEU:O	55:m9:142:ILE:HG13	2.16	0.46
56:n0:104:GLU:O	56:n0:108:GLN:HG2	2.16	0.46
58:n2:36:TYR:CD2	58:n2:83:TYR:HB2	2.51	0.46
59:n3:104:ASN:HB2	59:n3:105:PRO:HD2	1.98	0.46
64:n8:13:GLY:O	68:o2:36:LYS:HD2	2.15	0.46
79:q3:33:GLN:HG3	79:q3:34:HIS:CD2	2.51	0.46
1:2:223:U:H2'	1:2:224:C:C6	2.51	0.46
1:2:1253:U:H5''	33:E1:130:VAL:HB	1.97	0.46
1:2:1274:C:H4'	1:2:1275:A:O5'	2.15	0.46
1:2:1330:G:N1	5:S3:204:ASP:OD1	2.49	0.46
1:2:1428:G:H5'	1:2:1428:G:H8	1.81	0.46
4:S2:83:ILE:HD11	4:S2:125:ILE:HD11	1.98	0.46
11:S9:13:SER:H	11:S9:47:PHE:HB2	1.80	0.46
12:C0:91:TYR:O	12:C0:93:GLN:N	2.44	0.46
14:C2:50:LYS:NZ	33:E1:106:TYR:OH	2.44	0.46
17:C5:60:LEU:HD11	17:C5:92:SER:OG	2.16	0.46
24:D2:89:TRP:O	24:D2:93:LEU:HD23	2.15	0.46
27:D5:73:GLY:O	27:D5:77:ARG:NE	2.48	0.46
34:SR:127:ARG:C	34:SR:129:LYS:H	2.22	0.46
34:SR:131:ILE:O	34:SR:144:LEU:HB2	2.16	0.46
36:1:118:U:C5	36:1:119:U:C4	3.04	0.46
36:1:135:C:N3	71:O5:94:LYS:HB2	2.30	0.46
36:1:914:A:C8	39:L2:199:THR:HG21	2.51	0.46
36:1:994:G:N2	36:1:995:U:O4	2.36	0.46
36:1:1409:G:OP1	86:1:3849:OHX:N6	2.49	0.46
36:1:1460:A:H2'	36:1:1461:A:C8	2.50	0.46
36:1:1507:G:H2'	36:1:1507:G:N3	2.30	0.46
36:1:1520:G:H2'	36:1:1521:G:O4'	2.15	0.46
36:1:1549:U:H2'	36:1:1550:C:H6	1.81	0.46
36:1:1585:C:H2'	36:1:1586:G:C8	2.49	0.46
36:1:2103:U:H2'	36:1:2104:A:C8	2.50	0.46
36:1:2213:A:N1	36:1:2429:G:H1'	2.31	0.46
36:1:2762:A:H2'	36:1:2763:U:C6	2.51	0.46
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.51	0.46
40:L3:79:VAL:HG21	40:L3:338:LEU:HD21	1.96	0.46
40:L3:86:VAL:HG22	40:L3:162:VAL:HG12	1.97	0.46
40:L3:183:LEU:HD12	40:L3:183:LEU:HA	1.75	0.46
41:L4:157:GLU:HG2	41:L4:251:THR:HG21	1.97	0.46
46:L9:93:VAL:O	46:L9:177:ASP:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:189:GLU:O	46:L9:191:LEU:N	2.48	0.46
47:M0:33:ILE:HG23	47:M0:69:ARG:NH2	2.30	0.46
48:M1:93:ASP:OD1	48:M1:156:LYS:NZ	2.37	0.46
63:N7:81:LEU:HD22	63:N7:81:LEU:HA	1.75	0.46
71:O5:28:LEU:O	71:O5:32:LYS:HG3	2.15	0.46
72:O6:83:ALA:HA	72:O6:86:LYS:HB3	1.98	0.46
79:Q3:13:LYS:HE3	79:Q3:14:TYR:CE2	2.50	0.46
1:6:399:A:P	10:s8:49:ARG:HH22	2.37	0.46
1:6:417:A:H5'	1:6:418:G:C5	2.50	0.46
1:6:609:U:C5	25:d3:22:ASN:O	2.69	0.46
1:6:1441:C:O2'	33:e1:79:LYS:NZ	2.27	0.46
1:6:1565:C:OP1	20:c8:41:ARG:NH1	2.48	0.46
1:6:1744:A:N6	1:6:1745:G:C6	2.84	0.46
23:d1:69:LEU:O	23:d1:73:ALA:N	2.49	0.46
36:5:348:A:N3	36:5:352:A:O2'	2.48	0.46
36:5:1013:G:H2'	36:5:1014:U:O4'	2.15	0.46
36:5:1658:G:H2'	36:5:1659:U:C6	2.49	0.46
36:5:2826:U:O4	86:5:3819:OHX:N6	2.49	0.46
36:5:3298:C:C2	36:5:3299:A:C8	3.04	0.46
36:5:3356:G:C6	36:5:3357:U:C4	3.04	0.46
39:l2:211:HIS:C	39:l2:213:GLY:H	2.24	0.46
40:l3:116:ARG:HG2	40:l3:175:LYS:HB2	1.98	0.46
41:l4:33:ASP:O	41:l4:37:THR:HG23	2.16	0.46
41:l4:157:GLU:HG2	41:l4:209:TYR:HB2	1.97	0.46
42:l5:119:TYR:HE1	42:l5:134:ALA:HA	1.80	0.46
43:l6:173:MET:HB3	43:l6:173:MET:HE3	1.57	0.46
45:l8:166:LEU:HA	45:l8:166:LEU:HD23	1.69	0.46
72:o6:43:LEU:O	72:o6:47:ILE:HG13	2.15	0.46
74:o8:54:LEU:HD21	74:o8:56:ILE:HD11	1.96	0.46
81:p0:12:PHE:CE2	81:p0:62:ALA:HB2	2.51	0.46
1:2:765:G:O2'	11:S9:149:ARG:NH2	2.49	0.46
1:2:1695:G:N2	1:2:1706:C:H41	2.13	0.46
2:S0:120:LEU:HD11	2:S0:144:ILE:HG13	1.98	0.46
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.96	0.46
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.49	0.46
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.16	0.46
10:S8:188:GLU:HG2	13:C1:13:PHE:CD2	2.51	0.46
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.97	0.46
14:C2:59:LEU:HD23	14:C2:60:VAL:N	2.29	0.46
23:D1:12:TYR:O	23:D1:14:PRO:HD3	2.16	0.46
25:D3:33:LEU:HA	25:D3:33:LEU:HD23	1.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:501:A:H5''	43:L6:28:GLN:HE21	1.80	0.46
36:1:619:A:H4'	36:1:620:U:O4'	2.15	0.46
36:1:619:A:H4'	36:1:620:U:O5'	2.15	0.46
36:1:685:G:N2	36:1:696:C:C2	2.84	0.46
36:1:818:C:N3	36:1:920:A:H5'	2.31	0.46
36:1:2812:C:H2'	36:1:2813:A:C8	2.50	0.46
36:1:3203:U:O4	86:1:4085:OHX:N3	2.49	0.46
36:1:3276:G:H3'	43:L6:48:ARG:NH2	2.31	0.46
38:4:145:U:H2'	38:4:146:U:O4'	2.15	0.46
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.16	0.46
41:L4:222:VAL:O	41:L4:225:VAL:HG23	2.15	0.46
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.51	0.46
47:M0:81:GLY:C	47:M0:83:ASP:H	2.23	0.46
47:M0:187:ALA:O	86:M0:304:OHX:N5	2.48	0.46
48:M1:16:LYS:HE2	48:M1:130:VAL:HG11	1.97	0.46
49:M3:126:PHE:CD2	71:O5:115:LYS:HG2	2.51	0.46
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.96	0.46
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.50	0.46
76:Q0:93:LYS:HG3	76:Q0:102:ARG:HG2	1.97	0.46
1:6:200:A:H2'	1:6:201:G:H8	1.81	0.46
1:6:309:C:H2'	1:6:310:C:H6	1.81	0.46
1:6:1092:A:O2'	1:6:1093:A:H3'	2.16	0.46
1:6:1360:A:C3'	1:6:1361:U:H4'	2.46	0.46
2:s0:185:ARG:HB3	2:s0:186:GLY:H	1.54	0.46
5:s3:66:ILE:O	5:s3:70:THR:HG23	2.15	0.46
6:s4:11:ARG:NH1	6:s4:21:ASP:OD2	2.49	0.46
6:s4:132:GLY:N	6:s4:136:VAL:O	2.46	0.46
6:s4:157:ASN:CG	6:s4:222:LEU:HD21	2.41	0.46
7:s5:121:ILE:HD11	7:s5:195:ALA:HA	1.98	0.46
36:5:20:A:C6	36:5:21:G:C6	3.04	0.46
36:5:370:U:H4'	36:5:404:G:H5'	1.97	0.46
36:5:386:A:C5	36:5:387:A:H1'	2.50	0.46
36:5:2549:G:N2	45:l8:33:ASN:HA	2.31	0.46
36:5:2618:G:N2	47:m0:116:ARG:HA	2.31	0.46
36:5:3215:A:H8	50:m4:121:MET:HE2	1.81	0.46
37:7:33:U:H2'	37:7:34:C:O4'	2.15	0.46
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.46	0.46
40:l3:47:LEU:HD23	40:l3:164:THR:HG23	1.97	0.46
44:l7:150:LYS:NZ	44:l7:244:ASN:O	2.30	0.46
50:m4:24:LYS:HE2	50:m4:24:LYS:HB3	1.71	0.46
50:m4:36:VAL:HG11	50:m4:55:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:42:ASN:HD21	52:m6:125:ARG:HH11	1.64	0.46
53:m7:31:GLU:HG2	53:m7:60:PHE:HA	1.97	0.46
54:m8:176:ARG:HA	54:m8:182:LYS:O	2.15	0.46
56:n0:79:VAL:HG21	56:n0:106:LEU:HD11	1.98	0.46
61:n5:74:LYS:O	61:n5:78:ASP:HB2	2.16	0.46
62:n6:26:GLN:O	62:n6:30:LEU:HG	2.16	0.46
62:n6:37:LYS:H	62:n6:37:LYS:HD3	1.80	0.46
65:n9:21:ILE:HG22	65:n9:22:LYS:N	2.30	0.46
68:o2:126:LEU:HD23	68:o2:126:LEU:HA	1.73	0.46
1:2:461:G:H2'	1:2:462:G:H8	1.81	0.46
1:2:579:A:C2	5:S3:143:ARG:HG2	2.51	0.46
1:2:1483:A:C6	1:2:1484:G:C6	3.03	0.46
2:S0:56:LYS:HD2	2:S0:158:VAL:HG23	1.97	0.46
3:S1:65:VAL:HG21	3:S1:85:LYS:HE2	1.97	0.46
5:S3:150:MET:HE3	35:SM:110:TRP:HB3	1.98	0.46
6:S4:77:ARG:HA	6:S4:77:ARG:HD2	1.73	0.46
15:C3:91:LEU:HB3	15:C3:122:ILE:HG12	1.98	0.46
18:C6:83:GLN:HG3	18:C6:116:LEU:O	2.16	0.46
29:D7:2:VAL:O	29:D7:3:LEU:HB2	2.15	0.46
34:SR:19:TRP:HB2	34:SR:38:ARG:HD2	1.97	0.46
36:1:824:C:H2'	36:1:825:U:C6	2.51	0.46
36:1:1314:C:O5'	36:1:1314:C:H6	1.99	0.46
36:1:1362:G:H2'	36:1:1363:A:C8	2.50	0.46
36:1:3045:G:H2'	36:1:3046:A:O4'	2.16	0.46
36:1:3385:U:H2'	36:1:3386:G:O4'	2.16	0.46
38:4:156:U:H2'	38:4:157:U:C6	2.50	0.46
40:L3:296:THR:OG1	40:L3:357:LYS:O	2.25	0.46
41:L4:3:ARG:HA	41:L4:4:PRO:HD2	1.53	0.46
42:L5:216:GLU:HA	42:L5:219:PHE:HB3	1.98	0.46
47:M0:51:HIS:HB3	47:M0:134:ILE:HG23	1.96	0.46
49:M3:138:VAL:HG23	71:O5:118:ILE:HB	1.98	0.46
53:M7:60:PHE:HZ	53:M7:84:PRO:HG3	1.81	0.46
54:M8:44:PHE:CD2	54:M8:134:GLY:HA3	2.51	0.46
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.97	0.46
1:6:16:G:H2'	1:6:17:C:C6	2.50	0.46
1:6:1076:A:O5'	28:d6:13:LYS:HB3	2.16	0.46
1:6:1619:C:H5'	30:d8:21:SER:HB2	1.97	0.46
4:s2:90:THR:O	4:s2:92:ALA:N	2.46	0.46
9:s7:67:LEU:HD13	9:s7:71:HIS:CE1	2.50	0.46
11:s9:110:GLN:OE1	11:s9:126:ARG:HG2	2.15	0.46
13:c1:5:LEU:O	13:c1:7:VAL:N	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:d8:60:GLU:O	30:d8:62:GLU:N	2.49	0.46
34:sR:52:GLN:HG2	34:sR:53:LYS:H	1.81	0.46
35:sM:51:ARG:CZ	35:sM:52:PRO:HD2	2.45	0.46
36:5:75:G:H5''	49:m3:58:VAL:CG1	2.46	0.46
36:5:269:G:O6	86:5:4144:OHX:N6	2.49	0.46
36:5:911:C:N4	39:l2:3:ARG:HD3	2.31	0.46
36:5:1222:G:H8	36:5:1222:G:OP2	1.98	0.46
36:5:2555:G:H5'	36:5:2556:C:OP2	2.15	0.46
36:5:2854:U:P	47:m0:3:ARG:HH22	2.38	0.46
36:5:2882:U:H2'	36:5:2883:U:C6	2.51	0.46
38:8:59:A:H4'	38:8:60:U:H5''	1.98	0.46
39:l2:48:ILE:HD11	39:l2:83:HIS:HA	1.98	0.46
41:l4:23:PRO:HB3	41:l4:259:ASP:OD1	2.14	0.46
45:l8:33:ASN:O	45:l8:33:ASN:ND2	2.49	0.46
55:m9:92:GLN:O	55:m9:96:ILE:HG13	2.16	0.46
57:n1:38:ASP:O	57:n1:64:VAL:HG23	2.16	0.46
64:n8:3:SER:OG	64:n8:4:ARG:N	2.48	0.46
79:q3:13:LYS:HD2	79:q3:14:TYR:CZ	2.51	0.46
81:p0:44:GLU:CD	81:p0:99:VAL:HG13	2.41	0.46
1:2:122:U:H5''	6:S4:77:ARG:HH21	1.79	0.46
1:2:182:A:H2'	1:2:183:U:C6	2.51	0.46
1:2:483:A:H61	1:2:505:A:H1'	1.80	0.46
1:2:1418:G:N7	86:2:1993:OHX:N5	2.63	0.46
4:S2:114:GLY:HA3	4:S2:132:ALA:HB2	1.98	0.46
5:S3:38:GLU:HG3	5:S3:49:ILE:HB	1.98	0.46
10:S8:11:ARG:HD3	10:S8:15:GLY:O	2.16	0.46
13:C1:64:VAL:HG12	13:C1:129:ARG:NH1	2.31	0.46
21:C9:39:THR:O	21:C9:96:ALA:HB1	2.15	0.46
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.16	0.46
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	1.97	0.46
36:1:95:A:C5	36:1:96:G:H1'	2.51	0.46
36:1:506:U:H2'	36:1:507:U:O4'	2.16	0.46
36:1:612:U:H2'	36:1:613:G:C8	2.51	0.46
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.48	0.46
36:1:1556:C:O2'	86:1:3809:OHX:N2	2.48	0.46
36:1:1751:G:H5'	74:O8:26:LYS:NZ	2.31	0.46
36:1:2373:A:N7	36:1:2867:C:H1'	2.31	0.46
38:4:41:A:O2'	73:O7:59:THR:HG22	2.16	0.46
39:L2:3:ARG:HG2	39:L2:4:VAL:H	1.80	0.46
46:L9:118:LEU:HD23	46:L9:118:LEU:HA	1.82	0.46
49:M3:180:ARG:HG2	49:M3:180:ARG:HH11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:11:GLN:HG2	51:M5:44:ARG:NH2	2.30	0.46
51:M5:144:ARG:HD3	71:O5:95:PHE:HE2	1.79	0.46
1:6:179:A:H2'	1:6:180:A:C8	2.51	0.46
1:6:282:C:H2'	1:6:283:U:O4'	2.15	0.46
1:6:1045:C:C2	1:6:1074:G:C2	3.03	0.46
1:6:1459:C:H4'	17:c5:126:VAL:HG11	1.98	0.46
1:6:1570:A:OP1	86:6:2124:OHX:N1	2.49	0.46
5:s3:115:ILE:HD13	5:s3:116:ARG:HG3	1.97	0.46
7:s5:53:VAL:HB	7:s5:59:VAL:HG22	1.98	0.46
7:s5:99:MET:HB2	7:s5:180:ARG:CZ	2.46	0.46
11:s9:114:TYR:C	11:s9:116:LEU:H	2.24	0.46
16:c4:77:THR:O	16:c4:110:LEU:HD22	2.16	0.46
19:c7:9:VAL:HG13	19:c7:50:ILE:HA	1.96	0.46
36:5:112:U:O2'	36:5:113:C:OP2	2.28	0.46
36:5:241:G:H2'	36:5:242:C:C6	2.51	0.46
36:5:269:G:H5''	51:m5:14:LYS:HE2	1.97	0.46
36:5:315:C:OP2	72:o6:28:TYR:OH	2.29	0.46
36:5:1471:U:H2'	36:5:1472:U:H6	1.80	0.46
36:5:1728:G:H5''	36:5:1730:G:O4'	2.16	0.46
36:5:2131:A:H61	79:q3:18:TYR:HA	1.81	0.46
36:5:2653:C:H1'	36:5:2694:A:C2	2.51	0.46
42:l5:227:LEU:C	42:l5:229:ASP:H	2.24	0.46
44:l7:95:ILE:HA	44:l7:96:PRO:HD3	1.79	0.46
46:l9:27:VAL:O	46:l9:33:THR:HA	2.15	0.46
47:m0:123:HIS:CG	47:m0:123:HIS:O	2.69	0.46
55:m9:167:ARG:HB3	55:m9:167:ARG:CZ	2.46	0.46
64:n8:73:LEU:O	64:n8:113:LEU:N	2.37	0.46
70:o4:47:CYS:SG	70:o4:81:CYS:SG	3.11	0.46
81:p0:11:TYR:CE1	81:p0:15:LEU:HD12	2.51	0.46
83:f:60:VAL:HG22	83:f:71:GLU:HG2	1.97	0.46
1:2:1111:G:C6	1:2:1112:G:C4	3.04	0.46
1:2:1283:U:H3	1:2:1424:A:H61	1.64	0.46
1:2:1358:G:OP1	86:2:2109:OHX:N2	2.49	0.46
1:2:1619:C:H2'	1:2:1620:C:C6	2.51	0.46
10:S8:103:GLN:HG2	10:S8:164:ARG:HG2	1.97	0.46
11:S9:4:ALA:HA	11:S9:5:PRO:HD3	1.73	0.46
11:S9:53:ARG:O	11:S9:57:ARG:HG3	2.16	0.46
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.15	0.46
20:C8:41:ARG:CD	21:C9:46:PRO:HD3	2.46	0.46
25:D3:67:ALA:HB3	25:D3:69:ARG:HH21	1.78	0.46
34:SR:182:ASN:HD21	34:SR:184:ASN:ND2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:70:A:N1	36:1:313:A:O2'	2.44	0.46
36:1:1063:G:C6	36:1:1097:G:C5	3.04	0.46
36:1:1721:U:O4	55:M9:128:LYS:NZ	2.29	0.46
36:1:2103:U:H2'	36:1:2104:A:H8	1.81	0.46
36:1:2154:U:OP1	39:L2:242:ARG:NH1	2.45	0.46
36:1:2229:A:H2'	36:1:2230:C:O4'	2.16	0.46
36:1:2278:C:C2	36:1:2307:G:C2	3.04	0.46
36:1:2444:C:H3'	36:1:2445:A:H5''	1.97	0.46
36:1:2503:G:H1'	36:1:2504:U:H5	1.81	0.46
36:1:2553:U:O2	36:1:2553:U:H2'	2.15	0.46
36:1:3245:A:H5'	36:1:3246:G:H5''	1.98	0.46
36:1:3340:G:O6	86:1:4058:OHX:N4	2.48	0.46
42:L5:244:HIS:HA	42:L5:247:ILE:HD12	1.98	0.46
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.98	0.46
77:Q1:6:ARG:NH1	77:Q1:10:THR:HG22	2.31	0.46
1:6:95:G:H5'	1:6:96:G:OP2	2.16	0.46
1:6:1003:A:H1'	1:6:1005:A:N7	2.30	0.46
1:6:1364:G:N2	21:c9:3:GLY:HA3	2.30	0.46
5:s3:72:LEU:HD22	12:c0:65:TYR:CD1	2.46	0.46
7:s5:140:THR:HA	7:s5:214:LYS:HD2	1.97	0.46
8:s6:1:MET:HE1	8:s6:104:PRO:HA	1.98	0.46
9:s7:168:SER:O	9:s7:172:VAL:HG23	2.16	0.46
11:s9:87:SER:O	11:s9:90:LYS:N	2.49	0.46
15:c3:85:PRO:HG2	15:c3:129:TYR:CE2	2.51	0.46
21:c9:14:PHE:HZ	21:c9:132:LEU:HD12	1.81	0.46
36:5:541:U:O4	86:5:3928:OHX:N3	2.48	0.46
36:5:850:U:H2'	36:5:851:C:C6	2.50	0.46
36:5:1440:G:H2'	36:5:1441:G:H8	1.81	0.46
36:5:2273:G:O6	86:5:3894:OHX:N6	2.49	0.46
36:5:2541:U:H4'	36:5:2542:U:OP1	2.16	0.46
36:5:2661:G:H2'	36:5:2662:G:C8	2.51	0.46
36:5:2727:A:C2	64:n8:43:ILE:HG23	2.51	0.46
36:5:2947:G:OP2	36:5:2947:G:H4'	2.16	0.46
36:5:3163:A:N1	36:5:3164:C:N4	2.63	0.46
46:l9:106:LYS:HA	46:l9:106:LYS:HE3	1.98	0.46
47:m0:56:GLU:HG3	47:m0:162:GLN:N	2.31	0.46
51:m5:136:ASP:OD2	51:m5:138:GLN:HG2	2.16	0.46
61:n5:103:TYR:O	61:n5:138:ARG:NH1	2.48	0.46
70:o4:86:LYS:HE3	70:o4:90:ILE:HD11	1.98	0.46
81:p0:98:ASN:O	81:p0:102:SER:OG	2.28	0.46
1:2:57:G:OP1	26:D4:112:LYS:NZ	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:276:C:O2'	1:2:277:U:H5''	2.15	0.46
1:2:572:C:O5'	1:2:572:C:H6	1.99	0.46
1:2:823:G:H2'	1:2:824:G:C8	2.50	0.46
1:2:1561:U:OP1	86:2:2122:OHX:N3	2.48	0.46
1:2:1699:G:H22	1:2:1702:A:H5''	1.80	0.46
6:S4:175:PHE:HE1	6:S4:225:VAL:HG11	1.80	0.46
13:C1:97:TYR:O	13:C1:99:ARG:HG2	2.16	0.46
18:C6:22:VAL:HG22	18:C6:65:ILE:HG23	1.98	0.46
18:C6:132:LYS:HB3	18:C6:138:PHE:CE1	2.51	0.46
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.81	0.46
34:SR:284:ALA:C	34:SR:286:GLU:H	2.22	0.46
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.51	0.46
36:1:2444:C:O4'	72:O6:63:ASN:ND2	2.48	0.46
36:1:2534:G:H2'	36:1:2535:A:C8	2.47	0.46
36:1:3164:C:N4	36:1:3286:G:O6	2.49	0.46
40:L3:328:ILE:HG12	40:L3:329:PRO:HD2	1.98	0.46
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.15	0.46
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.51	0.46
49:M3:108:ILE:O	49:M3:112:ASN:HB2	2.14	0.46
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.16	0.46
1:6:196:G:O2'	1:6:197:A:OP2	2.29	0.46
1:6:340:U:H2'	1:6:341:A:H8	1.78	0.46
1:6:1111:G:N7	86:6:2036:OHX:N3	2.64	0.46
1:6:1241:G:H2'	1:6:1242:A:O4'	2.16	0.46
2:s0:195:TRP:CE2	2:s0:197:ILE:HD13	2.50	0.46
7:s5:68:ILE:HD13	7:s5:69:PHE:H	1.80	0.46
9:s7:30:SER:HB2	9:s7:34:LEU:HB2	1.98	0.46
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.16	0.46
24:d2:106:THR:HG21	24:d2:121:VAL:HG23	1.97	0.46
25:d3:14:LYS:HA	25:d3:17:VAL:HG12	1.98	0.46
36:5:126:U:H2'	36:5:127:G:O4'	2.16	0.46
36:5:336:A:N3	41:l4:48:GLN:NE2	2.64	0.46
36:5:848:A:C5	36:5:849:C:H1'	2.51	0.46
36:5:926:A:H2'	36:5:927:C:C6	2.50	0.46
36:5:1214:U:H2'	36:5:1215:U:C6	2.51	0.46
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.48	0.46
36:5:1817:G:OP2	86:5:4096:OHX:N5	2.49	0.46
36:5:2213:A:N1	36:5:2429:G:H1'	2.30	0.46
36:5:2255:A:HO2'	36:5:2256:A:P	2.39	0.46
36:5:2954:U:O4	88:5:3403:SPS:S15	2.74	0.46
36:5:3048:A:H5''	40:l3:53:MET:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3226:A:C5	36:5:3227:A:C2	3.04	0.46
38:8:37:A:OP2	71:o5:86:ARG:HG3	2.16	0.46
38:8:113:U:H5'	75:o9:7:PHE:HB3	1.98	0.46
39:l2:23:ARG:HA	39:l2:51:ASP:OD1	2.16	0.46
41:l4:193:LYS:HB2	41:l4:198:ARG:HA	1.98	0.46
44:l7:29:GLU:O	44:l7:32:ALA:HB3	2.16	0.46
44:l7:116:PHE:HB2	44:l7:199:ASN:OD1	2.16	0.46
47:m0:207:GLU:CD	47:m0:211:ARG:HH22	2.24	0.46
80:m2:34:VAL:O	80:m2:36:ALA:N	2.48	0.46
50:m4:104:ALA:HA	50:m4:107:GLU:HB2	1.98	0.46
57:n1:106:LEU:H	57:n1:106:LEU:HG	1.40	0.46
66:o0:45:ALA:HA	66:o0:70:PHE:HB3	1.98	0.46
70:o4:74:ARG:HG2	70:o4:75:ALA:H	1.81	0.46
71:o5:93:THR:O	71:o5:96:GLU:N	2.49	0.46
1:2:1523:G:C8	21:C9:79:LEU:HD13	2.49	0.45
2:S0:52:LYS:NZ	23:D1:82:VAL:O	2.42	0.45
6:S4:86:PHE:CD1	6:S4:87:MET:HG2	2.51	0.45
11:S9:60:LEU:HD22	11:S9:60:LEU:HA	1.81	0.45
19:C7:46:LEU:HD13	19:C7:50:ILE:HD11	1.98	0.45
20:C8:108:LYS:HA	20:C8:108:LYS:HD2	1.61	0.45
26:D4:20:ARG:CZ	26:D4:74:LEU:HD22	2.46	0.45
27:D5:60:VAL:HA	27:D5:64:VAL:HG11	1.98	0.45
36:1:27:C:O2'	36:1:327:A:N3	2.40	0.45
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.49	0.45
36:1:317:A:H2'	36:1:318:A:C8	2.50	0.45
36:1:631:U:H2'	36:1:632:G:C8	2.51	0.45
36:1:933:A:C6	41:L4:98:ARG:HD2	2.50	0.45
36:1:1316:C:N4	52:M6:131:PRO:HD3	2.31	0.45
36:1:1481:A:H2'	36:1:1858:A:H1'	1.98	0.45
36:1:1841:A:H2	75:O9:45:ARG:NH2	2.10	0.45
36:1:1863:G:N1	36:1:1866:C:OP2	2.36	0.45
36:1:2221:G:N2	36:1:2223:A:H3'	2.31	0.45
36:1:2264:U:OP2	86:1:3881:OHX:N5	2.49	0.45
36:1:2633:U:H2'	36:1:2634:U:O4'	2.15	0.45
36:1:3099:C:C5	36:1:3100:U:C4	3.04	0.45
38:4:36:G:OP2	71:O5:85:THR:HG22	2.16	0.45
38:4:125:U:HO2'	38:4:126:A:P	2.39	0.45
40:L3:208:VAL:HG12	40:L3:340:LYS:HE2	1.98	0.45
40:L3:293:ASN:HD22	40:L3:304:THR:HG22	1.81	0.45
45:L8:159:PRO:HB2	45:L8:162:LEU:HD12	1.97	0.45
51:M5:124:ASP:OD2	51:M5:125:SER:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.16	0.45
57:N1:12:ARG:HD3	57:N1:13:TYR:CE2	2.50	0.45
57:N1:116:ARG:HA	57:N1:126:VAL:HG11	1.99	0.45
75:O9:25:GLN:OE1	75:O9:28:ARG:HG3	2.16	0.45
78:Q2:10:THR:OG1	78:Q2:11:TYR:N	2.45	0.45
1:6:365:G:H5'	1:6:758:U:O2	2.16	0.45
1:6:1537:C:O2	86:6:2124:OHX:N4	2.49	0.45
1:6:1766:A:H5''	86:6:2092:OHX:N6	2.31	0.45
6:s4:10:LYS:NZ	11:s9:2:PRO:HB3	2.31	0.45
6:s4:250:GLU:H	6:s4:250:GLU:CD	2.23	0.45
8:s6:78:THR:HG22	8:s6:79:LYS:H	1.80	0.45
13:c1:109:VAL:HG11	13:c1:125:VAL:HG11	1.98	0.45
14:c2:42:ALA:HB1	14:c2:47:GLU:HB3	1.98	0.45
18:c6:82:ARG:HH12	18:c6:114:ARG:HB2	1.81	0.45
18:c6:82:ARG:NH1	18:c6:114:ARG:HB2	2.32	0.45
23:d1:36:VAL:O	23:d1:51:VAL:N	2.45	0.45
36:5:1470:U:OP1	86:5:3873:OHX:N2	2.49	0.45
36:5:2730:G:H4'	54:m8:184:PHE:CD1	2.51	0.45
36:5:2748:A:O3'	42:l5:48:LYS:NZ	2.49	0.45
36:5:2881:C:H2'	36:5:2882:U:H6	1.81	0.45
41:l4:6:VAL:N	41:l4:20:LEU:O	2.44	0.45
41:l4:145:ILE:HA	41:l4:146:PRO:HD3	1.88	0.45
41:l4:219:LEU:C	41:l4:221:ASN:H	2.24	0.45
45:l8:65:LEU:HD12	51:m5:25:VAL:HG13	1.98	0.45
47:m0:48:LEU:HD23	47:m0:178:ARG:NH1	2.31	0.45
53:m7:95:LEU:HA	53:m7:95:LEU:HD23	1.81	0.45
56:n0:28:ARG:HE	56:n0:99:ARG:NH2	2.15	0.45
57:n1:40:VAL:O	57:n1:61:THR:HG23	2.16	0.45
61:n5:105:VAL:HG11	61:n5:126:LEU:HD22	1.98	0.45
83:f:93:LEU:N	83:f:102:LEU:HD22	2.31	0.45
1:2:932:U:O2	28:D6:32:LYS:HE2	2.16	0.45
1:2:1068:C:H2'	1:2:1069:A:C8	2.51	0.45
1:2:1549:C:OP1	17:C5:42:ARG:NH1	2.49	0.45
1:2:1594:G:H5'	31:D9:33:LYS:HE3	1.99	0.45
1:2:1682:U:O4	1:2:1720:G:N2	2.50	0.45
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.99	0.45
9:S7:114:ARG:C	9:S7:116:ARG:H	2.24	0.45
15:C3:7:ALA:O	15:C3:9:LYS:NZ	2.33	0.45
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.51	0.45
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.99	0.45
34:SR:90:ARG:HE	34:SR:102:ARG:HE	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.61	0.45
36:1:31:C:H2'	36:1:32:U:O4'	2.16	0.45
36:1:1184:A:O2'	36:1:1185:C:H5'	2.16	0.45
36:1:2100:A:N7	36:1:2101:C:N4	2.64	0.45
36:1:2719:U:O4	86:1:4050:OHX:N3	2.50	0.45
36:1:3006:A:H2'	36:1:3007:U:O4'	2.16	0.45
36:1:3186:A:O2'	46:L9:42:ASP:HA	2.17	0.45
38:4:1:A:C2	38:4:2:A:C4	3.03	0.45
43:L6:30:LEU:HD22	43:L6:34:LEU:HD12	1.97	0.45
48:M1:10:ARG:H	48:M1:10:ARG:HG3	1.53	0.45
50:M4:128:ARG:O	50:M4:132:LYS:HB2	2.15	0.45
54:M8:176:ARG:HA	54:M8:182:LYS:O	2.16	0.45
61:N5:109:LYS:HE3	61:N5:109:LYS:HB2	1.70	0.45
66:O0:13:LYS:HD3	66:O0:100:ILE:HG22	1.97	0.45
70:O4:37:LYS:HE3	70:O4:37:LYS:HB2	1.56	0.45
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.50	0.45
1:6:30:G:H2'	1:6:31:C:C6	2.51	0.45
1:6:291:G:H2'	1:6:292:U:C6	2.50	0.45
1:6:700:C:H2'	1:6:701:U:C6	2.51	0.45
1:6:1294:G:O2'	1:6:1321:A:N1	2.35	0.45
3:s1:30:PHE:CD1	3:s1:94:LYS:HA	2.52	0.45
6:s4:100:ARG:O	6:s4:102:VAL:HG12	2.16	0.45
15:c3:42:ARG:C	15:c3:44:GLY:H	2.24	0.45
20:c8:38:VAL:HG12	20:c8:42:TYR:CD2	2.51	0.45
36:5:378:A:H3'	36:5:379:C:H6	1.82	0.45
36:5:789:A:H2'	36:5:790:U:C6	2.51	0.45
36:5:1624:G:H2'	36:5:1625:A:O4'	2.16	0.45
36:5:2353:G:C5	36:5:2354:C:C5	3.04	0.45
36:5:3072:C:H2'	36:5:3073:A:O4'	2.16	0.45
40:l3:358:TRP:CZ2	40:l3:360:ASP:HA	2.51	0.45
42:l5:191:ASP:OD2	42:l5:193:GLU:HB2	2.16	0.45
46:l9:112:ILE:HD11	46:l9:134:ILE:HG12	1.97	0.45
49:m3:168:ARG:NH1	49:m3:172:LEU:HD11	2.31	0.45
63:n7:54:THR:OG1	63:n7:55:LYS:N	2.48	0.45
63:n7:75:VAL:HG13	63:n7:80:LEU:HD11	1.97	0.45
63:n7:90:GLU:C	63:n7:92:PHE:H	2.24	0.45
69:o3:16:TYR:CD2	69:o3:25:PRO:HA	2.51	0.45
1:2:542:A:H5''	1:2:544:A:N9	2.31	0.45
1:2:1619:C:H2'	1:2:1620:C:H6	1.82	0.45
2:S0:168:HIS:O	2:S0:170:ILE:N	2.50	0.45
6:S4:68:ARG:NH1	6:S4:76:VAL:HG21	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.16	0.45
6:S4:193:GLY:O	6:S4:210:ILE:HG23	2.17	0.45
7:S5:29:ILE:HG22	7:S5:34:GLN:HG3	1.98	0.45
7:S5:57:SER:O	7:S5:59:VAL:HG23	2.16	0.45
9:S7:84:LYS:HA	9:S7:84:LYS:HD3	1.80	0.45
14:C2:41:LEU:O	14:C2:43:ARG:HD3	2.16	0.45
22:D0:61:LYS:CG	22:D0:86:ILE:HB	2.46	0.45
32:E0:56:MET:HE3	32:E0:56:MET:HB2	1.85	0.45
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.39	0.45
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.51	0.45
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.30	0.45
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.51	0.45
47:M0:121:LYS:HE2	47:M0:121:LYS:HB3	1.78	0.45
49:M3:56:PRO:CB	49:M3:112:ASN:HD21	2.30	0.45
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.81	0.45
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.30	0.45
52:M6:127:LEU:HD22	56:N0:156:VAL:HG12	1.98	0.45
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.51	0.45
1:6:331:A:H4'	10:s8:31:ARG:O	2.16	0.45
1:6:809:A:C6	1:6:810:G:C6	3.04	0.45
1:6:1769:U:O2	16:c4:136:ARG:HD2	2.17	0.45
2:s0:71:GLU:HA	2:s0:95:ALA:H	1.80	0.45
5:s3:187:LYS:HB2	5:s3:187:LYS:HE3	1.59	0.45
6:s4:49:ARG:HD2	6:s4:50:ASN:ND2	2.32	0.45
7:s5:161:ASP:O	30:d8:45:LYS:N	2.48	0.45
16:c4:136:ARG:C	16:c4:137:LEU:HG	2.41	0.45
17:c5:123:TYR:OH	20:c8:126:ARG:NH1	2.50	0.45
21:c9:14:PHE:CZ	21:c9:132:LEU:HD12	2.52	0.45
23:d1:71:ARG:HG2	23:d1:83:TRP:CZ3	2.51	0.45
23:d1:74:GLN:OE1	23:d1:81:ASN:N	2.50	0.45
29:d7:35:VAL:C	29:d7:36:LYS:HG3	2.41	0.45
32:e0:41:THR:O	32:e0:45:VAL:HB	2.17	0.45
36:5:536:U:H1'	36:5:559:A:C8	2.51	0.45
36:5:601:U:H2'	36:5:602:A:C8	2.51	0.45
36:5:665:A:H1'	49:m3:14:PHE:CE1	2.45	0.45
36:5:790:U:C5'	41:l4:112:LYS:HG2	2.47	0.45
36:5:1078:U:O2	36:5:1082:U:C2	2.69	0.45
36:5:2985:C:H2'	36:5:2986:U:C6	2.51	0.45
36:5:3366:G:H2'	36:5:3367:C:H6	1.81	0.45
40:l3:106:TRP:HB2	40:l3:133:TYR:CE2	2.51	0.45
42:l5:4:GLN:C	42:l5:6:ASP:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:10:ARG:NH2	47:m0:56:GLU:OE1	2.47	0.45
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.47	0.45
49:m3:187:ALA:HA	49:m3:190:LYS:HE3	1.99	0.45
57:n1:85:LEU:HD23	57:n1:85:LEU:HA	1.79	0.45
68:o2:16:LYS:O	68:o2:17:PHE:HB2	2.16	0.45
68:o2:126:LEU:HD22	68:o2:127:ALA:H	1.81	0.45
70:o4:61:GLN:C	70:o4:63:ALA:H	2.23	0.45
76:q0:111:ARG:HG3	76:q0:112:LYS:HD2	1.98	0.45
1:2:225:A:H2'	1:2:226:A:O4'	2.17	0.45
1:2:687:G:H5'	24:D2:119:LYS:HG2	1.98	0.45
1:2:926:A:C2	16:C4:125:SER:HB3	2.51	0.45
1:2:1147:A:H2'	1:2:1148:C:H6	1.81	0.45
1:2:1426:C:H5''	35:SM:93:ARG:HH12	1.81	0.45
1:2:1499:G:OP2	21:C9:73:VAL:HG23	2.15	0.45
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.52	0.45
9:S7:184:GLU:HB3	9:S7:185:ILE:H	1.68	0.45
12:C0:1:MET:HG2	12:C0:2:LEU:H	1.81	0.45
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.46	0.45
15:C3:114:ARG:HD3	15:C3:114:ARG:HA	1.71	0.45
23:D1:80:LYS:HD2	23:D1:81:ASN:CG	2.41	0.45
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.39	0.45
36:1:250:U:C5	36:1:251:G:H2'	2.52	0.45
36:1:291:C:H2'	36:1:292:U:H6	1.81	0.45
36:1:1295:G:O2'	56:N0:115:ARG:NH1	2.43	0.45
36:1:1581:C:H2'	36:1:1582:C:C5'	2.47	0.45
36:1:2154:U:H4'	39:L2:240:ALA:CB	2.47	0.45
36:1:2393:G:O2'	36:1:2394:G:OP2	2.34	0.45
36:1:3165:A:H2'	36:1:3166:C:C6	2.51	0.45
38:4:58:G:N2	38:4:100:U:C2	2.84	0.45
39:L2:79:ASN:HD21	39:L2:114:SER:HB3	1.81	0.45
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.81	0.45
41:L4:361:HIS:CD2	41:L4:362:ASP:H	2.35	0.45
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.98	0.45
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.32	0.45
51:M5:112:ASN:ND2	51:M5:113:LEU:HD22	2.32	0.45
59:N3:75:PRO:HB2	59:N3:103:ALA:O	2.17	0.45
1:6:542:A:OP1	1:6:542:A:H3'	2.17	0.45
1:6:638:U:OP2	24:d2:32:LYS:NZ	2.29	0.45
1:6:955:A:H4'	1:6:1073:G:O2'	2.17	0.45
1:6:1071:U:H2'	1:6:1072:C:C6	2.52	0.45
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:76:ILE:HG12	2:s0:98:ILE:HB	1.99	0.45
11:s9:127:VAL:O	11:s9:131:GLN:HB2	2.16	0.45
15:c3:94:LYS:HG2	15:c3:118:ILE:HD13	1.98	0.45
16:c4:107:ARG:O	16:c4:109:GLY:N	2.48	0.45
19:c7:104:ASN:C	19:c7:106:THR:H	2.21	0.45
24:d2:50:PHE:HB3	24:d2:63:VAL:HG22	1.99	0.45
28:d6:45:VAL:O	28:d6:49:ALA:HB3	2.15	0.45
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	1.99	0.45
36:5:1192:C:C5	86:5:4001:OHX:N2	2.84	0.45
36:5:1439:U:H2'	36:5:1440:G:O4'	2.17	0.45
36:5:1741:A:C6	36:5:1742:U:C2	3.05	0.45
36:5:1792:C:OP2	79:q3:34:HIS:NE2	2.50	0.45
36:5:2943:G:N7	36:5:2944:U:C5	2.84	0.45
44:l7:74:SER:HB3	57:n1:141:VAL:O	2.16	0.45
45:l8:24:ASN:C	45:l8:26:LEU:H	2.24	0.45
47:m0:38:LYS:HB3	47:m0:46:PHE:HE2	1.81	0.45
47:m0:190:VAL:HG13	47:m0:197:VAL:CG2	2.45	0.45
48:m1:166:LYS:C	48:m1:168:ASP:N	2.73	0.45
52:m6:108:ILE:HA	52:m6:109:PRO:HD2	1.83	0.45
68:o2:6:HIS:HA	68:o2:7:PRO:HD2	1.82	0.45
73:o7:39:TYR:CG	73:o7:40:PRO:HA	2.51	0.45
1:2:514:G:O2'	1:2:515:A:H5'	2.17	0.45
1:2:772:G:N2	1:2:774:A:O2'	2.39	0.45
1:2:887:A:H5''	16:C4:120:PRO:HB2	1.97	0.45
1:2:1237:G:H1	1:2:1248:C:H42	1.65	0.45
1:2:1312:A:C4	1:2:1414:U:C4	3.04	0.45
2:S0:119:ARG:HB3	2:S0:119:ARG:NH1	2.30	0.45
4:S2:203:LYS:HB3	4:S2:206:THR:OG1	2.17	0.45
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.32	0.45
13:C1:39:GLY:C	13:C1:41:GLY:N	2.74	0.45
28:D6:20:PRO:HA	28:D6:31:PRO:HA	1.97	0.45
36:1:22:G:OP1	73:O7:43:LYS:HE2	2.16	0.45
36:1:975:C:H2'	36:1:976:U:C6	2.51	0.45
36:1:1808:G:OP2	63:N7:133:LYS:NZ	2.49	0.45
36:1:2316:G:OP1	86:1:3963:OHX:N6	2.50	0.45
36:1:2808:A:H4'	36:1:2809:C:O5'	2.16	0.45
36:1:2836:C:H5	36:1:2852:C:N4	2.12	0.45
36:1:2883:U:H2'	36:1:2884:C:C6	2.50	0.45
36:1:3185:U:C6	52:M6:126:VAL:HG21	2.52	0.45
37:3:3:U:H2'	37:3:4:U:C6	2.51	0.45
38:4:24:G:OP2	62:N6:13:ARG:NH1	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:221:THR:HG22	40:L3:222:LYS:O	2.17	0.45
47:M0:171:TRP:O	47:M0:174:THR:HG22	2.17	0.45
47:M0:174:THR:HG23	47:M0:176:LEU:N	2.21	0.45
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.42	0.45
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.15	0.45
49:M3:165:SER:HB2	64:N8:139:ARG:HH21	1.81	0.45
50:M4:85:TRP:CD1	50:M4:90:VAL:HG13	2.51	0.45
55:M9:40:ALA:HA	55:M9:43:LYS:HD2	1.97	0.45
68:O2:4:LEU:HB2	68:O2:90:LYS:O	2.17	0.45
1:6:269:G:N7	8:s6:186:ARG:NH2	2.60	0.45
1:6:512:A:OP2	11:s9:172:VAL:HG13	2.16	0.45
1:6:1080:U:O2'	1:6:1081:A:H5'	2.15	0.45
1:6:1340:U:O4	18:c6:9:THR:HA	2.16	0.45
1:6:1531:G:H2'	1:6:1532:U:C6	2.51	0.45
1:6:1553:G:O6	17:c5:43:ARG:NH1	2.50	0.45
1:6:1654:G:C6	1:6:1745:G:C6	3.05	0.45
1:6:1797:A:N1	28:d6:87:ARG:HD2	2.32	0.45
9:s7:173:TYR:CD1	9:s7:181:ILE:HD11	2.52	0.45
10:s8:138:ASN:HA	10:s8:141:ARG:HB2	1.99	0.45
16:c4:47:LYS:HE3	16:c4:62:LEU:HD23	1.98	0.45
21:c9:118:PRO:C	21:c9:120:GLY:H	2.24	0.45
24:d2:31:SER:O	24:d2:34:ILE:HB	2.17	0.45
36:5:230:U:O4	86:5:4041:OHX:N4	2.50	0.45
36:5:592:A:H4'	43:l6:18:LEU:O	2.16	0.45
36:5:715:A:N7	64:n8:115:LYS:HD2	2.32	0.45
36:5:1232:C:O2'	81:p0:36:GLN:OE1	2.20	0.45
36:5:1362:G:H4'	44:l7:160:ARG:H	1.82	0.45
36:5:1587:A:O2'	36:5:1590:G:O6	2.24	0.45
36:5:1908:A:H2'	36:5:1909:A:O4'	2.17	0.45
36:5:2167:A:H2'	36:5:2168:A:C8	2.51	0.45
36:5:2213:A:C6	36:5:2214:A:C6	3.05	0.45
36:5:2601:A:H2'	36:5:2602:G:C8	2.51	0.45
36:5:2689:A:C8	36:5:2702:A:C6	3.04	0.45
36:5:3191:G:O6	86:5:4053:OHX:N6	2.49	0.45
36:5:3279:A:H2'	36:5:3280:U:H5'	1.99	0.45
86:5:3915:OHX:N3	86:7:222:OHX:N6	2.65	0.45
40:l3:387:LEU:HD23	40:l3:387:LEU:HA	1.84	0.45
42:l5:25:GLU:O	48:m1:144:CYS:HA	2.14	0.45
42:l5:279:LYS:NZ	42:l5:282:ARG:HH12	2.14	0.45
43:l6:54:TYR:OH	43:l6:57:HIS:HB2	2.16	0.45
47:m0:76:MET:HE1	47:m0:148:VAL:HG13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:102:LYS:HE3	50:m4:102:LYS:HB2	1.66	0.45
53:m7:126:ARG:HB3	53:m7:140:GLU:HG2	1.97	0.45
54:m8:96:PHE:CE1	54:m8:114:ILE:HA	2.51	0.45
55:m9:146:LYS:HA	55:m9:146:LYS:HD3	1.77	0.45
67:o1:62:ARG:HB2	67:o1:66:GLY:O	2.16	0.45
1:2:768:C:C2	11:S9:143:ILE:HG12	2.52	0.45
1:2:1076:A:H2'	1:2:1077:C:C6	2.52	0.45
1:2:1275:A:C6	1:2:1438:G:C5	3.05	0.45
1:2:1316:G:O2'	1:2:1401:A:O2'	2.17	0.45
1:2:1459:C:N4	20:C8:139:LYS:HE2	2.32	0.45
1:2:1550:A:P	17:C5:42:ARG:NH2	2.89	0.45
1:2:1552:U:H2'	1:2:1553:G:O4'	2.17	0.45
8:S6:55:GLY:O	8:S6:63:MET:HG3	2.17	0.45
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.90	0.45
36:1:63:A:H5''	51:M5:174:ILE:HG21	1.97	0.45
36:1:507:U:H2'	36:1:508:U:C6	2.52	0.45
36:1:958:C:OP1	36:1:2799:A:H3'	2.16	0.45
36:1:1119:C:OP2	86:1:3850:OHX:N1	2.50	0.45
36:1:1156:C:OP2	44:L7:94:LYS:NZ	2.38	0.45
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.52	0.45
36:1:1922:A:H2'	36:1:1923:C:O4'	2.17	0.45
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.16	0.45
40:L3:286:GLY:HA3	40:L3:321:PHE:CZ	2.52	0.45
43:L6:38:THR:HG23	43:L6:90:LYS:HE2	1.97	0.45
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.31	0.45
47:M0:150:GLU:OE1	47:M0:154:ARG:NE	2.49	0.45
48:M1:166:LYS:HE2	48:M1:166:LYS:HB2	1.66	0.45
51:M5:94:TYR:HD1	51:M5:96:ARG:H	1.64	0.45
54:M8:133:LYS:HB2	54:M8:135:GLN:HE22	1.80	0.45
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.52	0.45
1:6:404:G:H2'	1:6:405:C:C6	2.51	0.45
1:6:1153:G:H2'	1:6:1154:G:O4'	2.16	0.45
1:6:1213:G:H1	1:6:1450:U:H3	1.65	0.45
1:6:1515:A:OP2	5:s3:7:LYS:HB2	2.16	0.45
1:6:1654:G:H2'	1:6:1745:G:N2	2.32	0.45
3:s1:190:PRO:C	3:s1:191:GLU:HG3	2.41	0.45
4:s2:227:PRO:O	4:s2:230:TRP:HB2	2.16	0.45
5:s3:31:GLU:O	5:s3:54:ARG:NH2	2.50	0.45
7:s5:61:TYR:CE1	7:s5:165:LEU:HB2	2.51	0.45
8:s6:27:PHE:HB3	8:s6:102:VAL:HG11	1.98	0.45
11:s9:105:LEU:HD12	11:s9:105:LEU:HA	1.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:109:LEU:CB	11:s9:146:PHE:HB3	2.43	0.45
19:c7:87:GLU:O	19:c7:88:VAL:HB	2.17	0.45
34:sR:235:SER:O	34:sR:237:GLN:NE2	2.49	0.45
36:5:172:G:N2	36:5:247:C:N3	2.65	0.45
36:5:209:A:N7	41:l4:163:LYS:HG3	2.32	0.45
36:5:268:A:C4	51:m5:12:ARG:HG3	2.51	0.45
36:5:970:A:H1'	36:5:1112:A:N1	2.32	0.45
36:5:1013:G:O6	86:5:4013:OHX:N6	2.50	0.45
36:5:1947:G:H5'	55:m9:134:HIS:CD2	2.52	0.45
36:5:2203:U:O2'	36:5:2204:C:H5'	2.16	0.45
36:5:2661:G:H2'	36:5:2662:G:H8	1.81	0.45
41:l4:43:ASN:O	41:l4:43:ASN:ND2	2.42	0.45
41:l4:309:ARG:CZ	41:l4:312:VAL:HG11	2.45	0.45
64:n8:132:LYS:O	64:n8:136:GLU:HG3	2.17	0.45
76:q0:88:LYS:HE3	76:q0:88:LYS:HB3	1.74	0.45
76:q0:94:SER:HA	76:q0:124:LYS:H	1.82	0.45
81:p0:56:ASN:HB3	81:p0:60:ARG:NH2	2.31	0.45
83:f:19:TYR:HA	83:f:20:PRO:HD2	1.84	0.45
1:2:392:G:H4'	1:2:1672:G:H21	1.81	0.45
1:2:553:G:C6	1:2:554:C:N3	2.84	0.45
1:2:861:U:O2'	15:C3:20:ARG:NH2	2.50	0.45
1:2:1291:G:N2	1:2:1324:G:N2	2.64	0.45
1:2:1387:G:N7	19:C7:44:LYS:NZ	2.58	0.45
1:2:1565:C:OP1	20:C8:41:ARG:HG3	2.17	0.45
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.16	0.45
5:S3:225:TYR:CE2	34:SR:191:ASP:HB2	2.51	0.45
15:C3:3:ARG:HB2	15:C3:8:GLY:O	2.17	0.45
22:D0:37:VAL:HG21	22:D0:109:GLU:HB2	1.99	0.45
36:1:565:U:H2'	36:1:566:G:C8	2.52	0.45
36:1:802:C:H2'	36:1:803:C:C6	2.52	0.45
36:1:830:A:H2'	36:1:831:G:O4'	2.16	0.45
36:1:1108:U:H2'	36:1:1109:U:H6	1.82	0.45
36:1:2144:A:C4	36:1:2281:A:C6	3.05	0.45
36:1:2223:A:N6	36:1:2783:U:O2'	2.48	0.45
36:1:2245:C:H4'	39:L2:221:LYS:O	2.17	0.45
36:1:2343:C:H2'	36:1:2344:U:C6	2.47	0.45
36:1:2421:U:H2'	36:1:2422:C:O4'	2.16	0.45
36:1:2443:A:N6	36:1:2504:U:C4	2.85	0.45
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.16	0.45
36:1:3099:C:H5	36:1:3100:U:C4	2.34	0.45
36:1:3312:U:C5'	40:L3:25:ILE:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3349:C:H6	36:1:3349:C:O5'	2.00	0.45
86:1:3769:OHX:N4	38:4:1:A:OP1	2.50	0.45
38:4:22:U:OP1	62:N6:12:ARG:NH2	2.45	0.45
40:L3:144:ILE:O	40:L3:148:LEU:HB2	2.17	0.45
42:L5:22:ARG:NH2	42:L5:28:THR:OG1	2.48	0.45
43:L6:59:GLU:C	43:L6:61:ASN:H	2.25	0.45
43:L6:145:LEU:O	43:L6:148:GLU:N	2.49	0.45
46:L9:16:VAL:HA	46:L9:28:VAL:O	2.17	0.45
47:M0:87:LEU:HA	47:M0:138:VAL:HG13	1.98	0.45
51:M5:186:GLY:O	51:M5:190:THR:HG23	2.16	0.45
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.49	0.45
62:N6:83:ASP:OD1	62:N6:84:LYS:N	2.50	0.45
1:6:194:U:H2'	1:6:194:U:O2	2.15	0.45
1:6:633:U:P	25:d3:10:ASN:HB2	2.57	0.45
1:6:811:A:C4	1:6:858:G:H1'	2.52	0.45
1:6:1227:A:H4'	1:6:1228:G:H5'	1.98	0.45
3:s1:131:ASP:CG	3:s1:180:THR:HB	2.42	0.45
15:c3:11:ILE:O	15:c3:13:SER:N	2.49	0.45
20:c8:17:LEU:O	20:c8:20:THR:N	2.45	0.45
36:5:715:A:O2'	36:5:752:C:O2'	2.33	0.45
36:5:998:A:O2'	36:5:999:G:H5'	2.17	0.45
36:5:1613:A:H2'	36:5:1614:C:C6	2.52	0.45
36:5:2730:G:H4'	54:m8:184:PHE:CG	2.52	0.45
41:l4:317:PRO:HA	41:l4:323:VAL:HG22	1.98	0.45
41:l4:362:ASP:OD1	86:l4:403:OHX:N3	2.50	0.45
58:n2:92:TRP:CD1	58:n2:92:TRP:N	2.85	0.45
64:n8:25:HIS:CD2	64:n8:25:HIS:C	2.93	0.45
68:o2:103:LYS:O	68:o2:106:VAL:HG22	2.17	0.45
77:q1:13:LEU:HD22	77:q1:17:ARG:HG3	1.98	0.45
78:q2:32:LYS:HA	78:q2:32:LYS:HD2	1.76	0.45
79:q3:6:LYS:NZ	79:q3:7:LYS:HE2	2.32	0.45
1:2:110:U:O2'	1:2:797:G:H1'	2.17	0.45
1:2:392:G:H4'	1:2:1672:G:N2	2.31	0.45
1:2:1082:C:H42	1:2:1091:A:N6	2.15	0.45
1:2:1407:U:H2'	1:2:1408:G:O4'	2.17	0.45
1:2:1773:C:C2	1:2:1789:G:C2	3.05	0.45
7:S5:188:LYS:NZ	27:D5:67:ASP:OD2	2.50	0.45
18:C6:99:GLU:OE1	34:SR:60:SER:N	2.50	0.45
25:D3:95:PHE:CE1	25:D3:135:LEU:HB3	2.51	0.45
36:1:520:U:O4	41:L4:349:THR:HG23	2.16	0.45
36:1:595:G:C6	36:1:609:G:H5''	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1478:C:H2'	36:1:1479:U:C6	2.52	0.45
36:1:1734:G:N7	86:1:3812:OHX:N5	2.65	0.45
36:1:2111:G:H5''	60:N4:48:ARG:HE	1.81	0.45
36:1:2273:G:N2	36:1:2311:G:H2'	2.32	0.45
36:1:3326:G:H2'	36:1:3327:G:H8	1.81	0.45
39:L2:96:LEU:HD22	79:Q3:83:ILE:HG23	1.98	0.45
41:L4:6:VAL:HG21	41:L4:255:PHE:CZ	2.51	0.45
41:L4:125:ALA:HB1	41:L4:238:LEU:HB3	1.99	0.45
41:L4:135:VAL:HA	41:L4:245:GLY:O	2.16	0.45
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.17	0.45
42:L5:160:PHE:CD2	42:L5:179:ARG:HB3	2.51	0.45
44:L7:125:GLU:HA	44:L7:128:LYS:HB2	1.99	0.45
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.51	0.45
46:L9:103:ILE:HG13	46:L9:136:PHE:HE2	1.82	0.45
47:M0:80:SER:O	47:M0:84:ALA:HB2	2.16	0.45
55:M9:130:ASN:C	55:M9:132:PHE:H	2.24	0.45
56:N0:1:MET:HE2	56:N0:2:ALA:H	1.82	0.45
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.27	0.45
59:N3:28:ASN:ND2	59:N3:112:SER:HB2	2.31	0.45
61:N5:45:LYS:HE2	61:N5:45:LYS:HB2	1.83	0.45
67:O1:72:ARG:O	67:O1:96:VAL:HG13	2.16	0.45
69:O3:69:GLY:HA2	69:O3:85:PHE:HA	1.98	0.45
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.16	0.45
1:6:309:C:H2'	1:6:310:C:C6	2.52	0.45
1:6:1220:C:P	12:c0:48:SER:HB2	2.57	0.45
1:6:1585:U:OP1	18:c6:125:GLU:N	2.49	0.45
3:s1:26:ARG:O	3:s1:50:LYS:HB2	2.17	0.45
10:s8:74:LYS:HD2	10:s8:74:LYS:HA	1.71	0.45
24:d2:68:ARG:HE	24:d2:68:ARG:HB3	1.55	0.45
26:d4:58:PHE:CE2	26:d4:72:PHE:HB3	2.51	0.45
33:e1:86:THR:C	33:e1:88:PRO:HD2	2.42	0.45
34:sR:319:ASN:N	34:sR:319:ASN:OD1	2.48	0.45
36:5:145:G:O6	86:5:3933:OHX:N2	2.50	0.45
36:5:329:U:OP2	86:5:3963:OHX:N5	2.50	0.45
36:5:515:C:O2'	41:l4:341:SER:O	2.35	0.45
36:5:1333:C:H1'	44:l7:209:ASN:ND2	2.32	0.45
36:5:1350:A:C5	36:5:1351:U:H1'	2.52	0.45
36:5:1593:A:H2'	36:5:1594:A:C8	2.52	0.45
36:5:2518:C:H2'	36:5:2519:A:C8	2.52	0.45
36:5:3143:C:O2'	86:5:3850:OHX:N3	2.50	0.45
36:5:3152:U:O2	86:5:4148:OHX:N1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:169:ILE:HG22	39:l2:170:ALA:O	2.16	0.45
41:l4:50:TYR:CD2	41:l4:109:TRP:HH2	2.34	0.45
41:l4:285:ASP:O	41:l4:289:ILE:HG13	2.16	0.45
47:m0:148:VAL:O	47:m0:152:LEU:N	2.49	0.45
47:m0:210:ILE:HG12	47:m0:217:PHE:CE2	2.52	0.45
56:n0:99:ARG:NH1	56:n0:126:VAL:O	2.50	0.45
59:n3:114:ILE:HD12	59:n3:133:SER:HA	1.99	0.45
62:n6:57:LEU:HD22	62:n6:58:VAL:N	2.28	0.45
76:q0:127:LEU:HD13	76:q0:128:LYS:HB2	1.99	0.45
83:f:132:LYS:HZ2	83:f:134:LEU:HD23	1.81	0.45
1:2:226:A:H2'	1:2:227:U:H5'	1.99	0.45
1:2:495:C:H3'	1:2:496:G:C4'	2.46	0.45
1:2:631:G:H2'	1:2:632:U:C6	2.52	0.45
2:S0:31:VAL:N	2:S0:149:LEU:O	2.40	0.45
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	1.99	0.45
3:S1:194:ASN:OD1	3:S1:194:ASN:N	2.49	0.45
6:S4:112:HIS:CD2	6:S4:237:SER:HG	2.35	0.45
8:S6:137:ARG:NH2	8:S6:177:ARG:HE	2.08	0.45
19:C7:81:LYS:HE3	19:C7:81:LYS:HB2	1.61	0.45
34:SR:207:ASP:OD1	34:SR:209:THR:OG1	2.27	0.45
36:1:315:C:OP2	72:O6:28:TYR:OH	2.33	0.45
36:1:729:C:H2'	36:1:730:C:C6	2.48	0.45
36:1:915:A:H2'	36:1:915:A:N3	2.32	0.45
36:1:1068:C:H5'	57:N1:110:LYS:HE3	1.98	0.45
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.50	0.45
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.16	0.45
36:1:2137:U:C6	36:1:2141:U:C4	3.04	0.45
36:1:2261:G:H21	36:1:2262:A:N6	2.14	0.45
36:1:2767:U:O4	86:1:3934:OHX:N6	2.50	0.45
36:1:2794:G:O2'	36:1:2795:U:OP2	2.28	0.45
36:1:3030:G:C6	36:1:3031:G:C4	3.05	0.45
38:4:73:U:OP2	62:N6:75:ARG:HB2	2.17	0.45
44:L7:160:ARG:HD2	44:L7:203:TRP:CE2	2.51	0.45
45:L8:195:SER:O	45:L8:197:VAL:N	2.46	0.45
47:M0:46:PHE:HD2	47:M0:139:ARG:HE	1.65	0.45
55:M9:27:ASN:C	55:M9:29:THR:H	2.25	0.45
58:N2:90:ARG:C	58:N2:92:TRP:H	2.25	0.45
62:N6:112:ASP:H	62:N6:115:ARG:HB2	1.81	0.45
67:O1:27:LYS:O	67:O1:30:PRO:HD2	2.16	0.45
73:O7:58:THR:O	73:O7:60:GLY:N	2.50	0.45
1:6:130:C:O2'	1:6:137:U:N3	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1137:A:H2	1:6:1138:A:C5	2.34	0.45
1:6:1241:G:H5'	17:c5:102:PHE:CZ	2.51	0.45
1:6:1252:C:H5'	33:e1:103:LEU:HD12	1.99	0.45
1:6:1620:C:H2'	1:6:1621:U:C6	2.52	0.45
2:s0:77:SER:HB2	2:s0:124:THR:HG21	1.99	0.45
7:s5:87:CYS:SG	7:s5:92:ARG:HG3	2.57	0.45
23:d1:71:ARG:HG2	23:d1:83:TRP:CZ2	2.52	0.45
25:d3:79:ASN:HB3	25:d3:81:LYS:HG3	1.99	0.45
30:d8:40:ILE:HG23	30:d8:62:GLU:HB2	1.97	0.45
34:sR:88:THR:HG21	34:sR:102:ARG:HH22	1.82	0.45
35:sM:50:ASN:OD1	35:sM:50:ASN:N	2.50	0.45
36:5:498:A:H2'	36:5:499:G:H8	1.79	0.45
36:5:1070:U:H2'	36:5:1071:U:O4'	2.17	0.45
36:5:1334:U:H5'	44:l7:207:LEU:O	2.17	0.45
36:5:1867:A:H2'	36:5:1868:G:C8	2.52	0.45
36:5:2438:A:H2'	36:5:2439:A:H5''	1.99	0.45
36:5:2554:A:H62	79:q3:62:LYS:NZ	2.14	0.45
36:5:2687:G:N7	86:5:3836:OHX:N1	2.65	0.45
36:5:2846:U:O2'	86:5:3966:OHX:N5	2.49	0.45
36:5:3251:U:H2'	36:5:3252:G:C8	2.52	0.45
38:8:87:G:OP1	71:o5:7:TYR:OH	2.35	0.45
40:l3:231:HIS:CD2	40:l3:270:ARG:CZ	3.00	0.45
42:l5:17:GLN:HE22	57:n1:22:HIS:N	2.15	0.45
42:l5:132:THR:O	42:l5:132:THR:OG1	2.28	0.45
45:l8:244:ALA:HA	45:l8:247:ASP:HB2	1.98	0.45
80:m2:102:PRO:HA	80:m2:140:SER:HA	1.99	0.45
55:m9:65:ALA:O	55:m9:68:GLN:HB3	2.17	0.45
56:n0:82:ASP:OD1	56:n0:87:THR:HB	2.17	0.45
70:o4:80:ARG:HA	70:o4:80:ARG:HD3	1.69	0.45
73:o7:88:ALA:HA	86:o7:502:OHX:N5	2.31	0.45
1:2:420:A:H2'	1:2:421:A:O4'	2.17	0.45
1:2:915:A:H2'	1:2:915:A:N3	2.32	0.45
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.17	0.45
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.32	0.45
6:S4:36:HIS:CG	6:S4:85:GLY:HA3	2.52	0.45
6:S4:211:LYS:HG3	6:S4:211:LYS:O	2.17	0.45
8:S6:78:THR:HG22	8:S6:92:ARG:HG2	1.99	0.45
9:S7:98:ILE:HG12	9:S7:121:VAL:HG21	1.99	0.45
18:C6:25:GLY:H	18:C6:63:ILE:HA	1.81	0.45
30:D8:54:LEU:HD23	30:D8:56:LEU:HD21	1.99	0.45
32:E0:58:PRO:HB2	32:E0:61:SER:OG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:E1:113:LYS:HB3	33:E1:113:LYS:HE3	1.87	0.45
36:1:226:C:H4'	62:N6:29:VAL:O	2.17	0.45
36:1:408:A:OP1	86:1:3950:OHX:N3	2.49	0.45
36:1:1070:U:O4	86:1:3993:OHX:N3	2.49	0.45
36:1:1804:A:O2'	70:O4:78:GLY:O	2.33	0.45
36:1:2768:U:H1'	78:Q2:28:TYR:HE1	1.81	0.45
36:1:2892:A:H2'	36:1:2893:C:C6	2.51	0.45
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.49	0.45
36:1:3215:A:C4	36:1:3259:U:C2	3.05	0.45
36:1:3366:G:H2'	36:1:3367:C:C6	2.52	0.45
41:L4:261:VAL:HG12	41:L4:271:LYS:HE2	1.97	0.45
41:L4:276:LEU:H	41:L4:276:LEU:HD12	1.82	0.45
46:L9:92:TYR:OH	46:L9:101:VAL:HB	2.17	0.45
54:M8:42:ALA:HA	54:M8:43:PRO:HD3	1.79	0.45
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.52	0.45
54:M8:57:ILE:HD13	54:M8:147:ARG:CZ	2.47	0.45
66:O0:95:ALA:O	66:O0:97:ASP:N	2.47	0.45
72:O6:74:LYS:HG3	72:O6:80:PHE:HA	1.99	0.45
75:O9:10:LYS:O	75:O9:13:MET:HB2	2.17	0.45
75:O9:20:ASN:O	75:O9:20:ASN:ND2	2.49	0.45
1:6:14:C:OP1	4:s2:164:SER:HB3	2.17	0.45
1:6:770:A:OP2	86:6:2105:OHX:N3	2.50	0.45
1:6:1220:C:H5'	12:c0:52:LYS:HE3	1.99	0.45
1:6:1390:U:H6	1:6:1412:G:H1'	1.82	0.45
1:6:1584:G:C8	18:c6:122:ARG:HB3	2.52	0.45
2:s0:52:LYS:HD3	23:d1:82:VAL:HA	1.99	0.45
2:s0:190:ASP:C	2:s0:192:THR:H	2.25	0.45
4:s2:61:LEU:HA	4:s2:62:PRO:HD2	1.62	0.45
5:s3:25:PHE:HD2	5:s3:37:VAL:HG11	1.81	0.45
5:s3:211:PRO:HG3	19:c7:20:TYR:CZ	2.52	0.45
6:s4:112:HIS:CE1	6:s4:239:PRO:HA	2.51	0.45
6:s4:195:ILE:HG22	6:s4:196:VAL:H	1.82	0.45
7:s5:175:LEU:O	7:s5:177:ILE:N	2.47	0.45
8:s6:70:PRO:O	8:s6:98:ARG:NH1	2.50	0.45
9:s7:128:ASP:C	9:s7:130:VAL:H	2.25	0.45
19:c7:33:ARG:HH22	34:sR:85:TRP:HB3	1.82	0.45
21:c9:57:ARG:HG2	21:c9:104:VAL:HG21	1.98	0.45
36:5:1109:U:O4	86:5:3905:OHX:N4	2.50	0.45
36:5:1298:C:OP2	86:5:3929:OHX:N5	2.50	0.45
36:5:1722:U:H5''	55:m9:99:LEU:HD12	1.99	0.45
36:5:2403:G:N7	36:5:2870:C:H4'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2653:C:P	78:q2:89:LYS:HG3	2.57	0.45
36:5:3185:U:HO2'	56:n0:170:THR:HG1	1.49	0.45
36:5:3328:G:H21	40:l3:309:GLY:HA2	1.82	0.45
37:7:5:G:O3'	42:l5:54:ARG:HG3	2.17	0.45
37:7:102:A:OP1	86:7:221:OHX:N2	2.50	0.45
40:l3:114:VAL:HG13	40:l3:163:HIS:CG	2.52	0.45
42:l5:76:ALA:O	42:l5:105:ILE:HD11	2.16	0.45
42:l5:93:THR:HG22	42:l5:158:ARG:HH11	1.82	0.45
43:l6:98:VAL:HA	43:l6:101:PHE:HD2	1.81	0.45
47:m0:47:PRO:HB3	47:m0:171:TRP:CE2	2.52	0.45
53:m7:24:VAL:HG13	53:m7:86:LYS:HG2	1.99	0.45
58:n2:37:LEU:O	58:n2:41:ILE:HG13	2.16	0.45
61:n5:96:LYS:O	61:n5:100:LYS:HB2	2.17	0.45
66:o0:70:PHE:CD2	66:o0:77:LEU:HD13	2.52	0.45
74:o8:8:ILE:HD12	74:o8:8:ILE:H	1.82	0.45
1:2:453:U:O4	86:2:2005:OHX:N5	2.50	0.44
1:2:776:G:H2'	1:2:777:C:O4'	2.17	0.44
1:2:1451:C:H2'	1:2:1452:U:H6	1.82	0.44
2:S0:119:ARG:HH21	4:S2:240:LEU:HB2	1.82	0.44
3:S1:35:PRO:HB2	3:S1:38:PHE:HE2	1.82	0.44
3:S1:87:ARG:HH22	3:S1:220:GLN:CD	2.24	0.44
5:S3:115:ILE:HD11	5:S3:138:VAL:HG21	1.98	0.44
9:S7:10:SER:HB2	9:S7:42:GLN:OE1	2.16	0.44
24:D2:36:LYS:O	24:D2:40:VAL:HG23	2.17	0.44
34:SR:18:GLY:O	34:SR:308:ASN:HA	2.17	0.44
36:1:213:A:O4'	62:N6:2:ALA:N	2.51	0.44
36:1:304:G:N3	36:1:304:G:H2'	2.31	0.44
36:1:534:U:H1'	56:N0:146:LYS:HD2	1.99	0.44
36:1:841:A:H5'	55:M9:125:LYS:O	2.17	0.44
36:1:915:A:H8	36:1:2136:C:O2'	2.00	0.44
36:1:980:A:OP2	36:1:980:A:H8	2.01	0.44
36:1:1148:G:C2	36:1:1156:C:C2	3.04	0.44
36:1:2244:A:H5''	39:L2:243:THR:OG1	2.17	0.44
36:1:2280:A:C4	36:1:2282:U:C5	3.05	0.44
36:1:2830:G:H2'	36:1:2831:G:H8	1.81	0.44
36:1:2921:U:H2'	36:1:2923:U:OP2	2.17	0.44
40:L3:43:LEU:HD22	40:L3:203:VAL:HG11	2.00	0.44
40:L3:116:ARG:HH11	40:L3:122:TRP:CD1	2.35	0.44
40:L3:116:ARG:HH21	40:L3:174:LYS:HD3	1.83	0.44
42:L5:155:THR:HA	42:L5:179:ARG:HD3	1.99	0.44
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:82:LYS:HA	44:L7:119:VAL:HB	1.99	0.44
44:L7:216:VAL:HG11	44:L7:227:GLY:C	2.41	0.44
48:M1:109:HIS:NE2	48:M1:122:ILE:HA	2.32	0.44
53:M7:29:THR:HA	53:M7:32:THR:OG1	2.17	0.44
54:M8:94:PHE:CE2	64:N8:119:PRO:HD3	2.52	0.44
54:M8:104:LEU:HD23	54:M8:104:LEU:HA	1.79	0.44
56:N0:161:LYS:HB3	56:N0:161:LYS:NZ	2.32	0.44
57:N1:136:ARG:HD3	57:N1:139:ARG:NH1	2.33	0.44
1:6:339:C:O2'	1:6:340:U:H5'	2.17	0.44
1:6:886:U:OP2	3:s1:216:LYS:NZ	2.48	0.44
1:6:1002:G:C5	1:6:1003:A:N7	2.85	0.44
1:6:1258:U:H5	1:6:1259:U:C4	2.35	0.44
2:s0:140:ASN:OD1	4:s2:62:PRO:HD3	2.17	0.44
3:s1:169:SER:O	3:s1:173:THR:OG1	2.35	0.44
7:s5:117:THR:HG21	7:s5:194:LEU:HD13	1.98	0.44
9:s7:62:VAL:HG13	9:s7:63:PRO:HD2	1.98	0.44
12:c0:55:VAL:HB	12:c0:68:LEU:HD12	1.99	0.44
15:c3:49:GLN:HA	15:c3:52:VAL:HB	1.99	0.44
16:c4:44:GLY:O	16:c4:59:ALA:HB1	2.17	0.44
36:5:643:U:O4	36:5:644:G:C6	2.70	0.44
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.37	0.44
36:5:1456:A:H4'	36:5:1457:U:O5'	2.17	0.44
36:5:1602:A:C6	36:5:1603:A:C6	3.05	0.44
36:5:2355:G:H5'	53:m7:139:TYR:CE1	2.51	0.44
36:5:2775:U:H1'	64:n8:58:MET:SD	2.57	0.44
36:5:2924:U:O2'	86:5:4017:OHX:N1	2.51	0.44
39:l2:27:ALA:HB3	39:l2:128:ARG:HH21	1.81	0.44
41:l4:84:ARG:O	41:l4:84:ARG:HG3	2.17	0.44
42:l5:109:THR:O	42:l5:112:LYS:N	2.50	0.44
45:l8:109:LEU:HD13	45:l8:109:LEU:HA	1.85	0.44
46:l9:88:TYR:CZ	46:l9:184:LYS:HD3	2.52	0.44
47:m0:74:LYS:O	47:m0:78:THR:HG23	2.17	0.44
48:m1:94:ARG:C	48:m1:96:PHE:N	2.75	0.44
50:m4:32:LEU:HD21	50:m4:94:TRP:CD2	2.51	0.44
55:m9:7:GLN:OE1	55:m9:35:ALA:HB3	2.17	0.44
64:n8:86:LYS:O	64:n8:90:TYR:HD2	2.00	0.44
1:2:367:A:C6	1:2:368:U:C4	3.05	0.44
1:2:748:U:H2'	1:2:749:U:H6	1.81	0.44
1:2:1209:C:N4	1:2:1454:G:H1	2.16	0.44
1:2:1340:U:C2	1:2:1378:U:H4'	2.52	0.44
1:2:1616:G:N7	86:2:2101:OHX:N4	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:120:LEU:HG	3:S1:142:PHE:CE1	2.52	0.44
3:S1:171:ILE:HA	3:S1:174:LYS:HE3	1.99	0.44
4:S2:214:ALA:O	4:S2:217:ALA:HB3	2.18	0.44
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	2.00	0.44
36:1:270:U:O2'	36:1:318:A:H1'	2.17	0.44
36:1:514:G:N3	41:L4:341:SER:OG	2.40	0.44
36:1:654:C:OP1	68:O2:27:ARG:NH2	2.50	0.44
36:1:901:G:H2'	36:1:902:G:H8	1.82	0.44
36:1:1178:G:H8	36:1:1178:G:O5'	2.00	0.44
36:1:1460:A:H2'	36:1:1461:A:H8	1.81	0.44
36:1:1558:A:C8	45:L8:53:PRO:HB3	2.52	0.44
36:1:1723:A:N1	36:1:1788:C:O2'	2.41	0.44
36:1:2259:A:H2'	36:1:2260:U:O4'	2.16	0.44
36:1:2988:C:O2'	40:L3:266:ARG:HD3	2.18	0.44
36:1:3043:C:H2'	36:1:3044:G:O4'	2.17	0.44
36:1:3049:A:N6	36:1:3095:U:O4'	2.49	0.44
36:1:3266:G:OP2	43:L6:70:LYS:HE3	2.16	0.44
37:3:7:G:N7	42:L5:21:ARG:NH2	2.65	0.44
37:3:42:A:C5	37:3:43:U:C5	3.05	0.44
38:4:79:A:H2'	38:4:80:A:O2'	2.16	0.44
38:4:139:U:H2'	38:4:140:G:H8	1.80	0.44
39:L2:79:ASN:HD22	39:L2:165:VAL:HG22	1.82	0.44
53:M7:39:TRP:O	53:M7:113:TYR:HB2	2.18	0.44
53:M7:60:PHE:CZ	53:M7:84:PRO:HG3	2.52	0.44
63:N7:64:LYS:HA	63:N7:64:LYS:HD3	1.80	0.44
66:O0:36:GLN:OE1	66:O0:38:LYS:HD2	2.17	0.44
76:Q0:127:LEU:HD22	76:Q0:128:LYS:HG2	2.00	0.44
1:6:6:G:OP2	4:s2:205:ARG:HD2	2.17	0.44
1:6:18:C:O4'	1:6:1137:A:N6	2.51	0.44
1:6:105:A:OP1	10:s8:18:ARG:NH1	2.51	0.44
1:6:122:U:O4	86:6:2031:OHX:N6	2.51	0.44
1:6:1170:G:H1	1:6:1469:A:H61	1.66	0.44
1:6:1380:U:OP1	18:c6:12:LYS:NZ	2.41	0.44
1:6:1606:C:H2'	1:6:1607:G:C8	2.53	0.44
4:s2:174:ARG:HA	4:s2:195:ASP:OD2	2.16	0.44
6:s4:136:VAL:HG11	6:s4:148:ARG:NH2	2.33	0.44
7:s5:73:THR:O	7:s5:75:GLY:N	2.47	0.44
10:s8:74:LYS:HB2	10:s8:109:PHE:HE1	1.82	0.44
29:d7:58:SER:C	29:d7:60:SER:H	2.24	0.44
30:d8:60:GLU:HB3	30:d8:61:ARG:H	1.60	0.44
32:e0:40:TYR:CD2	32:e0:44:PHE:HE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:324:A:H2'	36:5:325:A:C8	2.52	0.44
36:5:1721:U:OP2	55:m9:124:TYR:OH	2.24	0.44
36:5:2101:C:HO2'	36:5:2102:U:P	2.40	0.44
36:5:2101:C:O2'	36:5:2102:U:OP1	2.33	0.44
36:5:2651:G:C4	36:5:2796:G:C2	3.05	0.44
36:5:3132:C:H2'	36:5:3133:C:C6	2.51	0.44
36:5:3150:A:H4'	40:l3:128:LYS:O	2.17	0.44
36:5:3334:U:O2'	36:5:3368:U:O2	2.34	0.44
36:5:3352:U:O2'	86:5:4154:OHX:N1	2.50	0.44
42:l5:60:ILE:HB	42:l5:80:SER:HB3	1.99	0.44
42:l5:115:LEU:HD12	42:l5:119:TYR:CD2	2.52	0.44
44:l7:54:GLU:OE1	44:l7:186:HIS:NE2	2.51	0.44
49:m3:6:ASN:O	54:m8:164:ARG:NH1	2.49	0.44
51:m5:37:HIS:NE2	51:m5:63:ARG:HD2	2.32	0.44
57:n1:108:ARG:O	57:n1:112:ASN:HB2	2.17	0.44
67:o1:46:THR:HG21	67:o1:91:SER:OG	2.17	0.44
68:o2:4:LEU:HD13	68:o2:4:LEU:HA	1.80	0.44
73:o7:28:HIS:CE1	73:o7:30:GLN:HB2	2.51	0.44
78:q2:16:THR:O	78:q2:18:ARG:N	2.50	0.44
79:q3:44:LYS:HD2	79:q3:59:CYS:SG	2.57	0.44
1:2:939:A:H2'	1:2:940:A:C8	2.51	0.44
1:2:1183:A:C6	1:2:1184:A:N1	2.86	0.44
1:2:1433:G:C4	31:D9:41:GLN:HB3	2.52	0.44
1:2:1617:U:O2'	30:D8:21:SER:O	2.29	0.44
1:2:1684:U:H2'	1:2:1685:G:O4'	2.17	0.44
7:S5:25:LEU:HD11	18:C6:57:LEU:HD22	2.00	0.44
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.98	0.44
12:C0:29:GLN:O	12:C0:31:LYS:N	2.49	0.44
21:C9:9:VAL:HG22	21:C9:140:LEU:HD21	1.98	0.44
36:1:230:U:H2'	36:1:231:G:O4'	2.17	0.44
36:1:594:U:H2'	36:1:609:G:O6	2.17	0.44
36:1:736:A:C6	36:1:737:G:H1'	2.52	0.44
36:1:884:A:N7	36:1:2139:A:C4	2.86	0.44
36:1:2392:C:H5''	36:1:2393:G:OP2	2.18	0.44
36:1:3242:G:H8	40:L3:154:TYR:CE2	2.34	0.44
37:3:43:U:H4'	48:M1:140:ARG:O	2.17	0.44
37:3:49:G:OP1	42:L5:90:HIS:HB3	2.18	0.44
39:L2:118:GLU:HG3	39:L2:126:LEU:HD11	2.00	0.44
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.99	0.44
41:L4:29:PRO:HG2	41:L4:277:PRO:HB2	1.99	0.44
41:L4:89:ALA:C	41:L4:91:GLY:H	2.22	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:20:VAL:HG13	50:M4:66:THR:OG1	2.17	0.44
51:M5:153:ASP:OD2	51:M5:155:VAL:HG22	2.17	0.44
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.53	0.44
79:Q3:29:LEU:HD22	79:Q3:69:TYR:CD2	2.52	0.44
1:6:150:U:OP2	26:d4:124:ARG:HG3	2.17	0.44
1:6:452:A:H3'	1:6:453:U:C5	2.52	0.44
1:6:1388:A:C6	1:6:1411:A:C6	3.06	0.44
3:s1:164:ILE:HD13	3:s1:207:LEU:HD11	1.98	0.44
17:c5:51:SER:C	17:c5:53:PRO:HD2	2.42	0.44
20:c8:52:VAL:HG13	20:c8:61:LEU:HD21	2.00	0.44
20:c8:96:LYS:HB2	20:c8:96:LYS:HE3	1.58	0.44
36:5:83:U:H2'	36:5:84:U:O4'	2.17	0.44
36:5:120:G:N2	45:l8:126:SER:OG	2.51	0.44
36:5:498:A:O2'	36:5:3273:A:N1	2.44	0.44
36:5:911:C:H42	39:l2:3:ARG:HD3	1.83	0.44
36:5:1070:U:C4	36:5:1071:U:C4	3.06	0.44
36:5:1659:U:O4	86:5:4114:OHX:N4	2.51	0.44
39:l2:189:TYR:HA	39:l2:192:LYS:HB2	2.00	0.44
42:l5:180:PHE:HB3	42:l5:195:LEU:HD13	1.99	0.44
43:l6:105:TYR:HD1	43:l6:105:TYR:O	2.00	0.44
47:m0:127:ALA:O	47:m0:129:VAL:HG23	2.17	0.44
49:m3:178:LYS:HD3	49:m3:179:PHE:CE2	2.52	0.44
51:m5:147:ARG:NH1	71:o5:101:THR:OG1	2.50	0.44
54:m8:170:ARG:HA	54:m8:174:ARG:CD	2.47	0.44
60:n4:38:SER:O	60:n4:42:GLN:HG3	2.16	0.44
63:n7:102:GLU:H	63:n7:107:ARG:NH2	2.12	0.44
68:o2:19:ARG:HB2	68:o2:31:ASN:O	2.16	0.44
72:o6:54:GLU:HA	72:o6:57:LEU:HB2	1.99	0.44
1:2:477:A:H61	1:2:511:A:N6	2.12	0.44
1:2:1229:G:HO2'	1:2:1255:G:N2	2.14	0.44
1:2:1537:C:N3	86:2:2131:OHX:N1	2.65	0.44
2:S0:63:ILE:HG23	23:D1:35:ASN:O	2.17	0.44
2:S0:112:THR:O	2:S0:115:PHE:HB2	2.17	0.44
2:S0:179:ARG:O	2:S0:183:ARG:HG3	2.17	0.44
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.47	0.44
6:S4:102:VAL:HG23	6:S4:182:TYR:HE1	1.82	0.44
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.28	0.44
26:D4:14:SER:HA	26:D4:21:LYS:HG3	2.00	0.44
28:D6:21:VAL:O	28:D6:30:ILE:N	2.50	0.44
28:D6:36:ILE:HG23	28:D6:73:TYR:HB2	1.98	0.44
35:SM:76:VAL:HG12	35:SM:77:THR:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:233:C:H2'	36:1:234:G:O4'	2.18	0.44
36:1:650:C:O5'	36:1:650:C:H6	2.01	0.44
36:1:954:U:O4	36:1:1115:G:H1'	2.17	0.44
36:1:990:U:H4'	57:N1:100:LYS:HB3	1.99	0.44
36:1:1665:C:H2'	36:1:1666:G:C8	2.52	0.44
36:1:1878:G:C2'	36:1:1879:A:H5'	2.47	0.44
36:1:2117:A:N7	36:1:3064:U:O2'	2.40	0.44
36:1:2162:U:OP1	39:L2:234:LYS:NZ	2.47	0.44
40:L3:29:VAL:HG12	40:L3:31:ALA:O	2.17	0.44
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	1.98	0.44
40:L3:280:HIS:HB3	40:L3:324:VAL:HG13	2.00	0.44
41:L4:193:LYS:HB2	41:L4:193:LYS:HE3	1.74	0.44
42:L5:231:ILE:HG21	42:L5:239:ILE:HD11	1.99	0.44
58:N2:15:PHE:CE2	58:N2:71:PHE:HD1	2.35	0.44
61:N5:63:ILE:HG13	61:N5:84:PHE:CD1	2.52	0.44
64:N8:94:ALA:HB3	64:N8:121:VAL:HG13	1.99	0.44
66:O0:47:ASN:HD21	66:O0:74:ASN:H	1.65	0.44
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.49	0.44
1:6:83:G:H8	1:6:83:G:O5'	2.00	0.44
1:6:924:A:H2'	1:6:925:G:C8	2.53	0.44
3:s1:23:PRO:HB3	3:s1:26:ARG:NH1	2.33	0.44
4:s2:84:LYS:NZ	4:s2:208:GLU:HB2	2.33	0.44
5:s3:72:LEU:HA	12:c0:20:VAL:HG11	1.98	0.44
6:s4:196:VAL:HG12	6:s4:197:HIS:HB2	1.99	0.44
8:s6:71:THR:HG22	8:s6:72:ARG:H	1.83	0.44
18:c6:9:THR:HG21	18:c6:87:LYS:O	2.17	0.44
20:c8:105:VAL:HG23	20:c8:106:GLU:N	2.33	0.44
23:d1:35:ASN:OD1	23:d1:52:THR:HB	2.18	0.44
33:e1:88:PRO:HA	33:e1:89:LYS:HA	1.65	0.44
34:sR:33:LEU:O	34:sR:45:TRP:HD1	1.99	0.44
36:5:109:A:H4'	36:5:110:G:OP1	2.18	0.44
36:5:1018:G:H2'	36:5:1019:G:O4'	2.16	0.44
36:5:1470:U:H2'	36:5:1471:U:C6	2.52	0.44
36:5:2144:A:C4	36:5:2281:A:C6	3.06	0.44
36:5:2568:C:N4	36:5:2574:G:C6	2.85	0.44
36:5:2608:G:H2'	36:5:2609:A:H8	1.82	0.44
36:5:2749:G:O2'	42:l5:35:ARG:HG2	2.17	0.44
36:5:3095:U:H2'	36:5:3096:C:C6	2.52	0.44
37:7:114:U:H2'	37:7:115:G:C8	2.53	0.44
38:8:113:U:C4	75:o9:7:PHE:CE2	3.05	0.44
38:8:149:A:H2'	38:8:150:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:306:THR:HG21	40:l3:316:GLU:HB3	1.99	0.44
45:l8:97:TYR:CZ	45:l8:203:VAL:HG22	2.52	0.44
45:l8:148:ALA:C	45:l8:149:LYS:HD2	2.42	0.44
47:m0:30:LYS:HA	47:m0:30:LYS:HD3	1.79	0.44
50:m4:98:SER:HA	50:m4:101:LYS:HD2	2.00	0.44
53:m7:52:LEU:HD12	53:m7:52:LEU:HA	1.80	0.44
53:m7:119:VAL:HA	53:m7:145:HIS:O	2.18	0.44
54:m8:173:GLU:OE2	64:n8:49:HIS:HD2	2.00	0.44
55:m9:38:ARG:O	55:m9:41:ILE:HB	2.17	0.44
59:n3:128:ARG:CZ	59:n3:128:ARG:HB3	2.48	0.44
65:n9:24:PRO:HG2	65:n9:26:THR:HG22	1.99	0.44
69:o3:88:ASN:OD1	69:o3:88:ASN:N	2.49	0.44
1:2:747:C:H4'	24:D2:80:ASN:ND2	2.33	0.44
1:2:1729:C:H2'	1:2:1730:A:O4'	2.16	0.44
2:S0:146:LEU:HD12	2:S0:170:ILE:HG22	1.99	0.44
5:S3:127:MET:HE1	5:S3:133:GLY:HA2	1.98	0.44
6:S4:183:VAL:HG21	6:S4:218:PHE:HE1	1.83	0.44
8:S6:176:GLN:HG3	8:S6:177:ARG:N	2.32	0.44
12:C0:25:LYS:HB2	12:C0:64:TYR:HE2	1.82	0.44
14:C2:54:ARG:NH1	14:C2:56:GLU:OE2	2.51	0.44
17:C5:69:GLU:OE1	86:C5:201:OHX:N2	2.51	0.44
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.97	0.44
20:C8:145:ARG:HB2	35:SM:68:ARG:NH2	2.32	0.44
28:D6:71:LEU:HD12	28:D6:73:TYR:CZ	2.53	0.44
30:D8:42:ARG:NH1	30:D8:56:LEU:HD22	2.32	0.44
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.17	0.44
36:1:782:U:H2'	36:1:783:A:O4'	2.18	0.44
36:1:945:C:OP1	68:O2:33:ARG:HG3	2.18	0.44
36:1:1195:A:H1'	36:1:1319:G:H4'	1.98	0.44
36:1:1525:G:C5	36:1:1829:G:C6	3.05	0.44
36:1:1641:U:O2'	36:1:1643:A:OP2	2.36	0.44
36:1:2321:A:H2'	36:1:2322:C:O4'	2.17	0.44
37:3:36:C:O2	37:3:45:A:H1'	2.18	0.44
37:3:49:G:H4'	37:3:50:U:O5'	2.18	0.44
40:L3:261:MET:HE2	52:M6:63:ALA:C	2.43	0.44
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.18	0.44
42:L5:119:TYR:OH	42:L5:141:PRO:HD3	2.18	0.44
43:L6:30:LEU:HA	43:L6:30:LEU:HD23	1.74	0.44
43:L6:58:LEU:HD23	43:L6:58:LEU:HA	1.77	0.44
45:L8:71:VAL:HA	45:L8:72:PRO:HD2	1.63	0.44
46:L9:90:MET:HE1	46:L9:161:LEU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.99	0.44
53:M7:137:ASN:HD22	53:M7:137:ASN:HA	1.58	0.44
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.47	0.44
71:O5:78:LYS:HA	71:O5:81:ARG:CD	2.48	0.44
1:6:25:C:O2	86:6:2074:OHX:N6	2.50	0.44
1:6:40:A:H2'	1:6:41:A:O4'	2.17	0.44
1:6:1046:G:N7	86:6:2018:OHX:N1	2.65	0.44
1:6:1145:U:O2'	4:s2:89:GLN:HB2	2.18	0.44
2:s0:84:ARG:HE	19:c7:82:ASP:CG	2.23	0.44
4:s2:66:PHE:CD2	4:s2:130:ILE:HG12	2.52	0.44
6:s4:26:CYS:SG	11:s9:3:ARG:HG3	2.57	0.44
7:s5:125:THR:O	7:s5:127:GLN:HB2	2.18	0.44
7:s5:225:ARG:HH22	30:d8:57:MET:HB3	1.83	0.44
9:s7:126:LEU:HD13	9:s7:173:TYR:CD2	2.53	0.44
9:s7:184:GLU:HG2	9:s7:185:ILE:H	1.82	0.44
18:c6:40:GLU:C	18:c6:42:GLU:N	2.75	0.44
25:d3:53:VAL:HG13	25:d3:72:VAL:HB	1.99	0.44
36:5:45:A:O2'	36:5:95:A:N1	2.46	0.44
36:5:92:G:H5'	36:5:93:C:C5'	2.48	0.44
36:5:142:C:H2'	36:5:143:G:O4'	2.18	0.44
36:5:230:U:H2'	36:5:231:G:O4'	2.18	0.44
36:5:380:U:H2'	36:5:381:U:H6	1.82	0.44
36:5:720:A:H2'	36:5:720:A:N3	2.33	0.44
36:5:973:A:OP2	54:m8:12:ARG:NH1	2.50	0.44
36:5:2258:U:H2'	36:5:2259:A:O4'	2.18	0.44
36:5:3045:G:H2'	36:5:3046:A:O4'	2.18	0.44
36:5:3198:U:H4'	36:5:3199:G:OP2	2.17	0.44
36:5:3287:U:C4	36:5:3288:G:N7	2.85	0.44
86:5:3894:OHX:N2	86:5:4118:OHX:N1	2.65	0.44
38:8:1:A:C2	38:8:2:A:C4	3.06	0.44
40:l3:209:PHE:HB3	40:l3:282:ILE:CD1	2.48	0.44
41:l4:13:GLY:O	41:l4:14:GLU:HG2	2.17	0.44
44:l7:119:VAL:HG13	44:l7:124:LEU:CD2	2.48	0.44
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.17	0.44
49:m3:54:LEU:HD23	49:m3:141:ALA:HB1	1.99	0.44
53:m7:30:ARG:HD3	53:m7:30:ARG:C	2.42	0.44
54:m8:8:LYS:HE3	54:m8:8:LYS:HB2	1.75	0.44
60:n4:58:HIS:CG	60:n4:58:HIS:O	2.70	0.44
63:n7:90:GLU:O	63:n7:92:PHE:N	2.51	0.44
67:o1:44:MET:HE3	67:o1:44:MET:HB2	1.51	0.44
70:o4:54:ILE:HG23	70:o4:70:LYS:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:100:ILE:H	70:o4:100:ILE:HG13	1.43	0.44
1:2:97:C:H2'	1:2:98:U:C6	2.52	0.44
1:2:159:U:C6	26:D4:117:LYS:HG2	2.53	0.44
1:2:575:C:N4	25:D3:65:ASN:HD21	2.16	0.44
1:2:702:G:N7	86:2:2099:OHX:N2	2.65	0.44
1:2:1474:G:H2'	1:2:1475:A:C8	2.52	0.44
1:2:1487:A:H2'	1:2:1488:G:C8	2.53	0.44
1:2:1550:A:P	17:C5:42:ARG:HH22	2.41	0.44
1:2:1642:G:H5'	77:Q1:1:MET:HB3	1.98	0.44
2:S0:168:HIS:HB3	2:S0:203:PHE:CE2	2.52	0.44
5:S3:203:PRO:HA	19:C7:42:GLN:HB2	1.99	0.44
5:S3:215:GLU:HG2	5:S3:215:GLU:O	2.18	0.44
6:S4:103:TYR:O	6:S4:182:TYR:OH	2.35	0.44
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.99	0.44
15:C3:3:ARG:HH21	15:C3:10:GLY:N	2.14	0.44
15:C3:137:PRO:O	15:C3:138:ASN:HB3	2.18	0.44
18:C6:31:VAL:HG13	18:C6:67:VAL:HB	2.00	0.44
20:C8:26:ILE:HG13	20:C8:31:ALA:HB2	2.00	0.44
23:D1:60:ARG:HB3	23:D1:60:ARG:CZ	2.47	0.44
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.52	0.44
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.77	0.44
29:D7:6:ASP:OD1	29:D7:9:HIS:ND1	2.42	0.44
36:1:121:A:C6	45:L8:129:PRO:HG3	2.53	0.44
36:1:266:A:OP1	51:M5:5:LYS:NZ	2.44	0.44
36:1:373:A:N1	36:1:394:G:H4'	2.33	0.44
36:1:827:A:H2'	36:1:828:A:C8	2.51	0.44
36:1:1702:U:H1'	36:1:1744:G:N2	2.33	0.44
36:1:2567:C:H2'	36:1:2568:C:H5'	1.99	0.44
36:1:2741:C:H4'	78:Q2:19:LYS:HA	2.00	0.44
36:1:3057:U:O2'	36:1:3059:G:O5'	2.36	0.44
37:3:113:C:C4	37:3:114:U:C4	3.05	0.44
48:M1:50:ALA:HB3	48:M1:61:ARG:HA	2.00	0.44
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.52	0.44
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.52	0.44
57:N1:41:ASP:HB2	57:N1:97:LYS:HG2	2.00	0.44
62:N6:43:TYR:CD1	62:N6:126:LEU:HA	2.52	0.44
62:N6:111:LEU:HD23	62:N6:116:LYS:HG3	1.99	0.44
70:O4:7:PHE:CD2	70:O4:12:PRO:HA	2.52	0.44
71:O5:77:PRO:O	71:O5:81:ARG:HG3	2.18	0.44
74:O8:5:ILE:HG23	74:O8:10:GLN:OE1	2.18	0.44
1:6:52:U:H2'	1:6:53:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:419:G:C6	1:6:420:A:C5	3.06	0.44
1:6:1208:A:N1	1:6:1455:G:N2	2.65	0.44
1:6:1255:G:O2'	1:6:1256:A:O5'	2.30	0.44
1:6:1695:G:N2	1:6:1705:C:H41	2.14	0.44
1:6:1699:G:H1	1:6:1702:A:H5''	1.82	0.44
2:s0:157:ASP:O	2:s0:158:VAL:C	2.59	0.44
4:s2:56:ILE:CG2	4:s2:61:LEU:HB2	2.43	0.44
5:s3:216:PRO:O	5:s3:218:LEU:N	2.51	0.44
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.18	0.44
9:s7:137:GLY:HA3	9:s7:153:LEU:HD12	2.00	0.44
10:s8:104:ILE:HG13	10:s8:165:LEU:HB2	2.00	0.44
10:s8:110:ARG:NH2	36:5:3354:U:O4	2.51	0.44
12:c0:2:LEU:HB3	12:c0:3:MET:H	1.65	0.44
17:c5:110:GLU:C	17:c5:112:LEU:H	2.25	0.44
23:d1:64:GLU:OE2	29:d7:3:LEU:HB2	2.18	0.44
23:d1:71:ARG:HA	23:d1:83:TRP:CE3	2.52	0.44
24:d2:126:LEU:HD23	24:d2:126:LEU:HA	1.79	0.44
25:d3:76:LEU:HA	25:d3:76:LEU:HD23	1.70	0.44
28:d6:4:LYS:HE2	28:d6:5:ARG:HH22	1.83	0.44
34:sR:222:LEU:HD23	34:sR:234:LEU:HD13	1.99	0.44
36:5:218:G:OP1	36:5:218:G:H2'	2.18	0.44
36:5:406:G:N2	38:8:16:G:C4	2.86	0.44
36:5:512:U:H2'	36:5:513:G:H8	1.82	0.44
36:5:718:G:N7	36:5:721:G:H1'	2.33	0.44
36:5:1176:C:OP1	52:m6:25:LYS:HE3	2.17	0.44
36:5:1276:U:OP2	86:5:3922:OHX:N4	2.50	0.44
36:5:1495:U:H2'	36:5:1842:A:C2	2.53	0.44
36:5:1940:G:H21	36:5:3362:A:H8	1.65	0.44
36:5:2266:U:O5'	36:5:2266:U:H6	2.01	0.44
36:5:2663:G:H2'	36:5:2664:C:O4'	2.17	0.44
36:5:2926:A:H2'	36:5:2927:C:H6	1.83	0.44
36:5:3085:G:OP1	60:n4:34:SER:OG	2.25	0.44
39:l2:14:SER:OG	39:l2:15:ILE:N	2.49	0.44
40:l3:84:VAL:HG22	40:l3:162:VAL:HB	1.99	0.44
40:l3:116:ARG:HD3	40:l3:122:TRP:CG	2.53	0.44
41:l4:193:LYS:HE3	41:l4:193:LYS:HB3	1.67	0.44
42:l5:86:TYR:CD1	42:l5:247:ILE:HA	2.53	0.44
47:m0:140:THR:OG1	47:m0:144:ASN:HB3	2.17	0.44
53:m7:10:ASN:O	53:m7:14:SER:HB2	2.17	0.44
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.98	0.44
69:o3:45:LEU:HD23	69:o3:45:LEU:HA	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1081:A:O2'	1:2:1083:G:N7	2.38	0.44
1:2:1182:U:O2'	1:2:1184:A:N7	2.44	0.44
1:2:1590:G:H2'	1:2:1591:C:H6	1.82	0.44
9:S7:48:GLU:HA	9:S7:58:LEU:HD23	1.98	0.44
13:C1:56:LYS:HB3	13:C1:56:LYS:HE2	1.83	0.44
14:C2:62:LEU:HD23	14:C2:62:LEU:H	1.83	0.44
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.17	0.44
23:D1:41:GLU:O	23:D1:44:ARG:NH1	2.41	0.44
24:D2:82:LYS:O	24:D2:84:GLY:N	2.44	0.44
25:D3:48:HIS:HB3	25:D3:104:LEU:O	2.18	0.44
27:D5:54:VAL:N	27:D5:55:PRO:HD2	2.32	0.44
36:1:108:A:H2	49:M3:73:ARG:HH22	1.66	0.44
36:1:121:A:N1	45:L8:129:PRO:HG3	2.33	0.44
36:1:347:G:N7	41:L4:59:GLN:NE2	2.65	0.44
36:1:348:A:N3	36:1:352:A:O2'	2.50	0.44
36:1:397:A:H5'	36:1:398:A:H3'	2.00	0.44
36:1:742:G:O6	86:1:3870:OHX:N1	2.51	0.44
36:1:1293:U:O2'	36:1:1294:A:H5'	2.17	0.44
36:1:1534:A:C8	36:1:1586:G:N2	2.86	0.44
36:1:1668:G:C5	36:1:1669:C:C5	3.05	0.44
36:1:2808:A:N7	36:1:2955:U:H4'	2.33	0.44
36:1:2814:G:C8	86:1:4071:OHX:N6	2.86	0.44
37:3:28:C:H5''	48:M1:137:ARG:HG2	1.99	0.44
37:3:121:U:N3	42:L5:268:GLU:HB3	2.28	0.44
38:4:63:G:O2'	71:O5:49:LYS:HE2	2.17	0.44
40:L3:4:ARG:O	40:L3:5:LYS:HB3	2.17	0.44
45:L8:82:LEU:HD12	45:L8:82:LEU:HA	1.60	0.44
49:M3:91:ARG:NH2	49:M3:97:VAL:HB	2.33	0.44
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.35	0.44
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	2.00	0.44
52:M6:186:ALA:C	52:M6:188:SER:H	2.26	0.44
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	2.00	0.44
64:N8:71:PRO:HB2	64:N8:109:TYR:HD2	1.83	0.44
69:O3:59:VAL:HB	69:O3:60:ARG:H	1.52	0.44
74:O8:14:LEU:C	74:O8:16:ARG:H	2.25	0.44
1:6:784:C:H2'	1:6:785:U:C6	2.53	0.44
1:6:1217:A:H4'	12:c0:44:LYS:CE	2.48	0.44
1:6:1402:G:OP1	19:c7:4:VAL:HA	2.17	0.44
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.45	0.44
6:s4:126:VAL:HG22	6:s4:158:ASP:O	2.18	0.44
7:s5:73:THR:N	7:s5:91:GLU:OE2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:102:LEU:HD11	15:c3:112:LYS:HA	1.99	0.44
16:c4:104:ALA:HA	16:c4:107:ARG:HB3	1.99	0.44
20:c8:54:LEU:C	20:c8:56:LYS:H	2.26	0.44
24:d2:20:THR:OG1	24:d2:22:LYS:HD3	2.17	0.44
36:5:1050:U:O2	36:5:1051:U:H5	2.01	0.44
36:5:2254:U:H2'	36:5:2261:G:H22	1.82	0.44
36:5:3225:C:H2'	36:5:3226:A:H8	1.82	0.44
36:5:3227:A:O2'	50:m4:133:LYS:HD3	2.17	0.44
39:l2:29:LEU:HB2	39:l2:123:ARG:HA	1.99	0.44
43:l6:52:VAL:HG12	43:l6:53:VAL:H	1.83	0.44
44:l7:47:ARG:HH22	44:l7:179:LEU:HD11	1.83	0.44
45:l8:86:THR:HA	45:l8:89:GLU:HB2	1.99	0.44
46:l9:99:ILE:HG21	46:l9:179:ILE:HD11	2.00	0.44
48:m1:26:SER:HB3	48:m1:63:GLU:HG2	1.99	0.44
56:n0:26:ARG:NH1	57:n1:150:THR:HG21	2.30	0.44
71:o5:22:VAL:O	71:o5:26:LYS:HG3	2.18	0.44
74:o8:7:ASP:HB3	74:o8:10:GLN:HB3	1.99	0.44
1:2:916:U:H3	16:C4:41:ARG:NH2	2.15	0.44
1:2:1064:G:H2'	1:2:1065:A:C8	2.53	0.44
1:2:1393:C:H2'	1:2:1394:G:O4'	2.18	0.44
1:2:1647:U:O2	32:E0:2:ALA:HA	2.18	0.44
2:S0:57:LEU:HD11	2:S0:173:ILE:HG23	2.00	0.44
2:S0:79:ARG:C	2:S0:81:PHE:H	2.26	0.44
3:S1:70:LEU:HD12	3:S1:82:ARG:O	2.17	0.44
5:S3:108:LYS:HE2	5:S3:122:VAL:HG23	2.00	0.44
10:S8:195:ARG:HA	10:S8:195:ARG:HD3	1.79	0.44
11:S9:122:VAL:HG23	11:S9:123:HIS:ND1	2.33	0.44
13:C1:109:VAL:HG23	13:C1:137:PHE:C	2.42	0.44
14:C2:87:PRO:HA	14:C2:140:PHE:CE1	2.46	0.44
21:C9:84:LYS:HD2	21:C9:86:ARG:HG2	1.99	0.44
22:D0:55:PRO:HG3	22:D0:91:ILE:HD11	1.99	0.44
23:D1:85:TYR:CE1	29:D7:6:ASP:HB2	2.53	0.44
29:D7:19:HIS:HB3	29:D7:22:LYS:HB2	1.99	0.44
34:SR:41:THR:HG22	34:SR:62:LYS:HG2	2.00	0.44
36:1:90:C:O2'	36:1:282:G:OP1	2.30	0.44
36:1:346:C:C4	36:1:348:A:C8	3.05	0.44
36:1:591:G:H21	43:L6:19:LYS:N	2.16	0.44
36:1:972:A:H2'	36:1:973:A:O4'	2.18	0.44
36:1:1226:G:H2'	36:1:1227:C:C6	2.52	0.44
36:1:1397:C:C2'	36:1:1398:U:H5'	2.47	0.44
36:1:2147:A:OP1	39:L2:199:THR:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2971:A:OP2	86:1:4060:OHX:N1	2.51	0.44
36:1:2983:C:OP1	86:1:4097:OHX:N3	2.51	0.44
36:1:3279:A:C5	36:1:3280:U:C4	3.05	0.44
36:1:3348:G:H2'	36:1:3349:C:C6	2.53	0.44
36:1:3389:U:O2'	36:1:3390:G:OP2	2.36	0.44
88:1:4113:SPS:O1	88:1:4113:SPS:H91	2.18	0.44
38:4:31:G:OP2	86:4:218:OHX:N1	2.51	0.44
39:L2:20:THR:HA	39:L2:23:ARG:HD2	2.00	0.44
39:L2:54:ARG:HG2	39:L2:56:ALA:O	2.18	0.44
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.18	0.44
40:L3:295:ALA:HB2	40:L3:301:THR:O	2.18	0.44
41:L4:162:THR:O	41:L4:166:VAL:HG23	2.18	0.44
48:M1:132:ASN:OD1	48:M1:132:ASN:N	2.51	0.44
49:M3:159:VAL:HG13	64:N8:144:VAL:HG13	2.00	0.44
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.83	0.44
53:M7:29:THR:O	53:M7:119:VAL:HG11	2.18	0.44
54:M8:90:ASP:O	54:M8:92:ARG:N	2.49	0.44
63:N7:124:ALA:O	63:N7:126:LYS:HG3	2.18	0.44
74:O8:65:LEU:HD23	74:O8:68:SER:HB2	1.98	0.44
1:6:304:U:H2'	1:6:305:C:C6	2.52	0.44
1:6:324:U:O2	1:6:346:G:H1'	2.18	0.44
1:6:757:A:O3'	6:s4:22:LYS:NZ	2.51	0.44
1:6:1097:U:H5	4:s2:199:GLN:HG2	1.82	0.44
1:6:1198:G:O2'	22:d0:72:ASN:HA	2.18	0.44
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.50	0.44
8:s6:7:TYR:CZ	8:s6:125:THR:HG23	2.53	0.44
9:s7:73:VAL:O	9:s7:75:THR:N	2.51	0.44
11:s9:126:ARG:O	11:s9:130:THR:HG23	2.18	0.44
15:c3:125:LEU:HD22	15:c3:129:TYR:CE2	2.53	0.44
18:c6:47:LYS:HA	18:c6:47:LYS:HD2	1.83	0.44
25:d3:56:LYS:C	25:d3:57:LEU:HD23	2.43	0.44
35:sM:30:THR:OG1	35:sM:31:SER:N	2.50	0.44
36:5:717:C:H2'	36:5:718:G:O4'	2.17	0.44
36:5:1927:G:OP1	79:q3:8:VAL:HG22	2.17	0.44
36:5:2211:U:H5	36:5:2234:G:N1	2.15	0.44
36:5:2234:G:O6	86:5:3878:OHX:N3	2.51	0.44
36:5:2754:G:OP2	86:5:3960:OHX:N3	2.51	0.44
36:5:2886:U:OP1	86:5:4047:OHX:N1	2.50	0.44
36:5:3290:G:O6	86:5:4011:OHX:N3	2.51	0.44
38:8:6:U:H2'	38:8:7:U:C6	2.53	0.44
40:l3:185:GLY:O	40:l3:191:LYS:NZ	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:286:GLY:HA3	40:l3:321:PHE:CZ	2.53	0.44
46:l9:75:VAL:O	46:l9:78:MET:HB2	2.18	0.44
49:m3:105:ASN:ND2	49:m3:108:ILE:HG12	2.32	0.44
51:m5:148:TYR:O	51:m5:151:ILE:HG22	2.18	0.44
53:m7:131:ARG:HA	53:m7:131:ARG:HD2	1.75	0.44
60:n4:132:GLY:O	60:n4:134:GLN:HG3	2.18	0.44
64:n8:77:LYS:O	64:n8:79:TRP:N	2.50	0.44
75:o9:23:LEU:O	75:o9:25:GLN:NE2	2.51	0.44
1:2:25:C:H4'	1:2:26:A:O5'	2.17	0.44
1:2:193:U:H2'	1:2:194:U:H2'	2.00	0.44
1:2:533:U:H4'	26:D4:33:ALA:HB3	2.00	0.44
1:2:560:U:H2'	1:2:561:G:C8	2.52	0.44
1:2:607:G:H4'	1:2:608:U:H5''	2.00	0.44
1:2:1375:A:C2	1:2:1376:C:C2	3.05	0.44
1:2:1481:C:O2'	1:2:1482:C:O5'	2.32	0.44
1:2:1553:G:O6	17:C5:43:ARG:HD3	2.17	0.44
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	1.99	0.44
2:S0:148:ASP:H	2:S0:151:SER:HG	1.62	0.44
6:S4:71:LYS:HG3	6:S4:91:THR:HB	2.00	0.44
9:S7:39:ARG:HH22	55:M9:185:LEU:HB3	1.82	0.44
10:S8:67:TRP:CZ2	10:S8:156:VAL:HG11	2.53	0.44
10:S8:184:LEU:HB3	10:S8:189:LEU:HD13	2.00	0.44
15:C3:114:ARG:HG2	15:C3:114:ARG:NH1	2.29	0.44
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.99	0.44
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	2.00	0.44
24:D2:89:TRP:O	24:D2:92:ASN:HB2	2.17	0.44
29:D7:31:TYR:CE2	29:D7:48:SER:HB3	2.53	0.44
30:D8:41:VAL:O	30:D8:62:GLU:HB2	2.18	0.44
34:SR:248:ASN:ND2	34:SR:298:GLY:HA3	2.31	0.44
36:1:996:A:H2'	36:1:997:A:O4'	2.18	0.44
36:1:1672:U:P	55:M9:60:LYS:HZ1	2.35	0.44
36:1:1696:A:N6	36:1:1748:G:H2'	2.33	0.44
36:1:2118:C:O5'	36:1:2118:C:H6	2.01	0.44
36:1:2898:G:H5''	36:1:2899:C:C5'	2.48	0.44
36:1:3009:G:C6	36:1:3010:U:C4	3.06	0.44
36:1:3146:G:O3'	40:L3:100:ARG:NH1	2.51	0.44
39:L2:132:ASN:HD22	39:L2:151:PRO:CB	2.31	0.44
40:L3:386:ASP:HB3	40:L3:387:LEU:H	1.61	0.44
44:L7:75:TYR:HB2	57:N1:141:VAL:HG22	1.99	0.44
44:L7:116:PHE:HB2	44:L7:199:ASN:OD1	2.18	0.44
49:M3:144:THR:HG21	71:O5:118:ILE:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:8:LYS:HB3	50:M4:8:LYS:HE3	1.68	0.44
52:M6:51:LYS:HE2	52:M6:144:SER:HB2	1.99	0.44
55:M9:8:LYS:HG3	55:M9:22:VAL:HG21	1.99	0.44
55:M9:8:LYS:HG3	55:M9:22:VAL:CG2	2.47	0.44
61:N5:38:LEU:HD13	61:N5:38:LEU:O	2.18	0.44
64:N8:3:SER:O	64:N8:6:THR:HB	2.18	0.44
78:Q2:65:THR:HB	78:Q2:66:LYS:H	1.68	0.44
1:6:93:A:H4'	1:6:94:U:OP2	2.17	0.44
1:6:310:C:O2'	1:6:311:U:H5'	2.17	0.44
1:6:514:G:O2'	1:6:515:A:H8	1.99	0.44
1:6:1078:C:H2'	1:6:1079:U:C6	2.53	0.44
1:6:1248:C:OP2	33:e1:95:HIS:ND1	2.50	0.44
1:6:1614:A:O2'	1:6:1615:C:H5'	2.18	0.44
1:6:1623:C:H2'	1:6:1624:C:C6	2.52	0.44
1:6:1691:A:H2'	1:6:1692:G:C8	2.53	0.44
1:6:1752:U:H2'	1:6:1753:A:C8	2.53	0.44
15:c3:114:ARG:HD3	15:c3:117:LEU:HD12	2.00	0.44
16:c4:107:ARG:C	16:c4:109:GLY:H	2.25	0.44
20:c8:145:ARG:HG2	35:sM:72:ARG:CZ	2.48	0.44
24:d2:30:SER:HB3	24:d2:59:GLY:HA3	1.99	0.44
34:sR:20:VAL:HG11	34:sR:310:ILE:HG12	2.00	0.44
34:sR:157:VAL:HB	34:sR:168:THR:HG22	2.00	0.44
35:sM:129:ALA:HA	35:sM:132:ALA:HB3	1.99	0.44
36:5:76:G:O2'	49:m3:100:ARG:HD2	2.17	0.44
36:5:357:A:H2'	36:5:358:G:O4'	2.18	0.44
36:5:754:G:C4	36:5:755:A:C8	3.06	0.44
36:5:986:U:OP2	86:5:4060:OHX:N2	2.51	0.44
36:5:1440:G:H2'	36:5:1441:G:C8	2.53	0.44
36:5:1560:G:H2'	36:5:1561:G:C8	2.52	0.44
36:5:1563:C:H2'	36:5:1564:U:O4'	2.17	0.44
36:5:1719:G:H2'	36:5:1720:U:O4'	2.18	0.44
36:5:1807:G:C6	36:5:1808:G:N1	2.86	0.44
36:5:2241:U:O2'	39:l2:243:THR:HG22	2.17	0.44
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.53	0.44
36:5:2430:A:H2'	36:5:2431:C:C6	2.53	0.44
36:5:2610:G:O6	86:5:4088:OHX:N6	2.51	0.44
36:5:2737:C:H4'	57:n1:68:THR:OG1	2.18	0.44
36:5:2852:C:N3	47:m0:158:LYS:HE3	2.32	0.44
36:5:3333:G:N2	36:5:3369:G:O2'	2.51	0.44
39:l2:30:ARG:HA	39:l2:74:GLU:OE2	2.18	0.44
40:l3:257:PRO:O	40:l3:259:HIS:N	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:208:MET:HE1	42:l5:226:TYR:CD1	2.52	0.44
46:l9:38:LEU:C	46:l9:40:HIS:H	2.25	0.44
51:m5:19:LEU:HD12	51:m5:19:LEU:HA	1.77	0.44
51:m5:99:ARG:HH22	51:m5:166:ALA:HB3	1.82	0.44
54:m8:82:VAL:HG22	54:m8:127:LEU:HD11	2.00	0.44
54:m8:96:PHE:CD2	54:m8:97:PRO:HD2	2.53	0.44
55:m9:166:ASN:HD22	55:m9:167:ARG:HG2	1.83	0.44
62:n6:110:HIS:O	62:n6:115:ARG:NH1	2.50	0.44
65:n9:47:LEU:HA	65:n9:50:THR:HG22	2.00	0.44
66:o0:56:LEU:HD23	66:o0:56:LEU:HA	1.84	0.44
69:o3:30:ILE:HB	69:o3:81:VAL:HG12	2.00	0.44
72:o6:80:PHE:HE1	72:o6:84:LYS:HE3	1.83	0.44
75:o9:2:ALA:N	75:o9:5:LYS:HD3	2.33	0.44
1:2:48:G:C6	1:2:49:C:C4	3.06	0.43
1:2:1122:G:N2	1:2:1125:A:OP2	2.51	0.43
1:2:1441:C:H2'	1:2:1442:U:C6	2.53	0.43
2:S0:184:LEU:HD23	23:D1:43:GLY:HA2	1.99	0.43
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.82	0.43
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	2.00	0.43
4:S2:169:LEU:HD12	4:S2:217:ALA:HB1	2.01	0.43
6:S4:106:LYS:HG3	6:S4:108:ARG:HH11	1.83	0.43
11:S9:108:ARG:O	11:S9:111:THR:OG1	2.23	0.43
11:S9:123:HIS:HD2	32:E0:37:ARG:CZ	2.31	0.43
20:C8:99:HIS:CD2	20:C8:101:LEU:HD21	2.53	0.43
21:C9:86:ARG:HH22	21:C9:90:PRO:HG2	1.83	0.43
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.33	0.43
28:D6:38:ARG:HE	28:D6:83:ILE:HB	1.83	0.43
34:SR:10:ARG:HA	34:SR:10:ARG:HD2	1.73	0.43
36:1:561:C:OP1	50:M4:77:ARG:HG3	2.18	0.43
36:1:692:A:OP1	51:M5:201:ARG:NH2	2.51	0.43
36:1:1140:G:H2'	36:1:1141:C:C6	2.53	0.43
36:1:2294:U:OP2	59:N3:71:LYS:HE2	2.17	0.43
36:1:2350:C:H4'	36:1:3308:C:O2'	2.18	0.43
36:1:2443:A:O2'	36:1:2444:C:OP2	2.31	0.43
36:1:3013:U:H2'	36:1:3014:U:C6	2.53	0.43
36:1:3087:A:H2'	36:1:3088:G:C8	2.53	0.43
37:3:57:G:H3'	37:3:58:C:C6	2.53	0.43
37:3:58:C:H2'	37:3:59:U:H6	1.83	0.43
39:L2:136:ILE:HA	39:L2:148:VAL:HG12	2.00	0.43
45:L8:238:LEU:HD23	45:L8:242:ALA:HB1	1.99	0.43
47:M0:89:VAL:HG13	47:M0:136:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:116:ARG:HE	47:M0:116:ARG:HB2	1.65	0.43
54:M8:55:SER:O	54:M8:58:ASN:N	2.50	0.43
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.18	0.43
64:N8:118:ILE:HG12	64:N8:119:PRO:O	2.17	0.43
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.98	0.43
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.83	0.43
76:Q0:78:ILE:HG23	76:Q0:83:LYS:HG3	1.99	0.43
1:6:68:A:OP2	8:s6:171:LYS:NZ	2.39	0.43
1:6:149:C:H2'	1:6:150:U:H6	1.83	0.43
1:6:530:C:O2	26:d4:61:ARG:NH2	2.48	0.43
1:6:585:A:H2'	1:6:586:G:C8	2.53	0.43
1:6:821:U:H2'	1:6:822:U:O4'	2.18	0.43
1:6:1362:U:H1'	1:6:1363:U:C5	2.53	0.43
1:6:1608:U:O3'	18:c6:73:GLY:HA3	2.18	0.43
2:s0:88:LYS:NZ	19:c7:82:ASP:O	2.44	0.43
12:c0:23:ALA:O	12:c0:24:LYS:HB3	2.18	0.43
20:c8:95:GLY:O	86:c8:203:OHX:N1	2.51	0.43
36:5:122:A:C5	36:5:146:U:C4	3.06	0.43
36:5:642:U:OP1	64:n8:22:ILE:HG23	2.18	0.43
36:5:1047:A:C6	36:5:1048:A:C6	3.06	0.43
36:5:1232:C:H2'	36:5:1233:G:C8	2.53	0.43
36:5:1700:G:C6	36:5:1701:C:C4	3.06	0.43
36:5:1733:G:H2'	36:5:1734:G:H8	1.83	0.43
36:5:1821:U:OP2	36:5:1821:U:H4'	2.18	0.43
36:5:2623:G:H2'	36:5:2624:G:C8	2.51	0.43
36:5:2948:C:O2'	40:13:242:THR:HG22	2.18	0.43
36:5:3346:U:H3	36:5:3359:A:H61	1.66	0.43
86:5:4002:OHX:N3	86:5:4120:OHX:N1	2.66	0.43
38:8:94:C:OP1	73:o7:76:ASN:ND2	2.41	0.43
38:8:125:U:H2'	38:8:125:U:O2	2.18	0.43
39:12:56:ALA:HB2	39:12:130:SER:HA	1.99	0.43
39:12:225:ILE:HG22	39:12:226:SER:O	2.17	0.43
41:14:99:MET:SD	41:14:102:PRO:HA	2.58	0.43
41:14:288:ARG:O	41:14:291:ASN:N	2.47	0.43
42:15:160:PHE:CD2	42:15:179:ARG:HB3	2.52	0.43
47:m0:81:GLY:O	47:m0:83:ASP:N	2.51	0.43
50:m4:48:GLY:HA3	50:m4:53:VAL:HG13	1.99	0.43
62:n6:70:ILE:HD13	62:n6:82:VAL:HG22	2.00	0.43
67:o1:33:VAL:HG13	67:o1:51:LEU:CD1	2.48	0.43
70:o4:5:VAL:HG22	70:o4:6:THR:H	1.83	0.43
78:q2:16:THR:C	78:q2:18:ARG:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:630:A:H5''	1:2:631:G:OP2	2.18	0.43
1:2:926:A:H1'	1:2:988:A:N1	2.33	0.43
3:S1:33:LYS:HB3	3:S1:97:LEU:HD22	1.99	0.43
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	1.99	0.43
4:S2:100:ALA:O	4:S2:115:ILE:HA	2.18	0.43
8:S6:32:ILE:HG13	8:S6:100:ALA:O	2.18	0.43
9:S7:28:GLU:O	9:S7:30:SER:N	2.51	0.43
9:S7:35:LYS:HZ3	9:S7:39:ARG:HD2	1.83	0.43
11:S9:163:PRO:C	11:S9:165:GLY:H	2.26	0.43
12:C0:38:LYS:HB2	12:C0:41:TYR:CD1	2.53	0.43
24:D2:36:LYS:HB2	24:D2:110:ILE:HD12	2.00	0.43
25:D3:87:VAL:HG12	25:D3:92:CYS:HB3	2.00	0.43
36:1:274:G:H2'	36:1:275:U:O4'	2.17	0.43
36:1:1286:A:N3	36:1:1287:A:H1'	2.32	0.43
36:1:1408:G:P	68:O2:33:ARG:HH22	2.41	0.43
36:1:2972:G:O5'	86:1:4060:OHX:N2	2.52	0.43
36:1:3089:C:H2'	36:1:3090:U:O4'	2.17	0.43
40:L3:36:ASP:C	40:L3:38:SER:H	2.26	0.43
40:L3:280:HIS:HB3	40:L3:324:VAL:CG1	2.48	0.43
42:L5:153:THR:HG23	42:L5:160:PHE:CZ	2.53	0.43
44:L7:90:LYS:HG3	44:L7:91:GLY:N	2.33	0.43
46:L9:165:CYS:HB3	46:L9:178:GLY:HA2	2.00	0.43
54:M8:51:ALA:HA	54:M8:54:LEU:HG	1.99	0.43
55:M9:102:LEU:HD22	55:M9:138:LEU:HD12	1.99	0.43
56:N0:7:TYR:CD1	56:N0:61:ILE:HD11	2.53	0.43
63:N7:15:ARG:HH12	70:O4:86:LYS:HZ3	1.66	0.43
66:O0:45:ALA:HB3	66:O0:48:THR:HB	2.00	0.43
71:O5:43:LYS:O	71:O5:46:THR:OG1	2.36	0.43
1:6:1041:G:OP1	86:6:2145:OHX:N4	2.51	0.43
1:6:1160:A:H2'	1:6:1161:C:H6	1.82	0.43
1:6:1218:G:OP2	12:c0:44:LYS:NZ	2.40	0.43
9:s7:11:GLN:HE22	9:s7:13:PRO:HD2	1.83	0.43
18:c6:60:PHE:HA	18:c6:63:ILE:HG12	2.00	0.43
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.34	0.43
34:sR:82:SER:OG	34:sR:92:TRP:NE1	2.49	0.43
36:5:79:U:OP2	86:5:3877:OHX:N4	2.51	0.43
36:5:1192:C:H5	86:5:4001:OHX:N6	2.15	0.43
36:5:1240:A:H2'	36:5:1241:U:H5'	1.99	0.43
36:5:1313:G:N3	36:5:1318:A:H2	2.16	0.43
36:5:1347:U:H5'	41:l4:303:GLY:HA3	2.00	0.43
36:5:1808:G:O6	86:5:3939:OHX:N3	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2129:U:O2'	36:5:2144:A:N3	2.46	0.43
36:5:2881:C:H2'	36:5:2882:U:C6	2.53	0.43
36:5:3110:C:C4	36:5:3111:U:C4	3.06	0.43
37:7:46:A:H2'	37:7:47:C:H6	1.83	0.43
39:12:15:ILE:HD12	39:12:15:ILE:HA	1.78	0.43
40:13:293:ASN:HB2	40:13:304:THR:HA	2.00	0.43
42:15:258:LYS:O	42:15:258:LYS:HG2	2.17	0.43
44:17:22:THR:HA	44:17:25:GLN:OE1	2.17	0.43
44:17:74:SER:OG	57:n1:142:SER:HA	2.18	0.43
44:17:125:GLU:OE1	44:17:128:LYS:HD2	2.18	0.43
46:19:1:MET:HE3	46:19:1:MET:O	2.18	0.43
52:m6:171:LYS:O	52:m6:175:THR:HB	2.18	0.43
53:m7:112:LEU:HG	53:m7:150:VAL:HB	2.00	0.43
54:m8:83:VAL:C	54:m8:85:GLY:H	2.25	0.43
56:n0:44:PHE:O	56:n0:46:GLN:N	2.48	0.43
58:n2:28:PHE:HE1	58:n2:83:TYR:CE2	2.26	0.43
76:q0:120:GLN:C	76:q0:121:LEU:HD23	2.43	0.43
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.46	0.43
1:2:144:U:O2'	1:2:145:A:H8	2.01	0.43
1:2:639:U:OP1	9:S7:117:THR:OG1	2.27	0.43
1:2:980:G:H4'	1:2:1776:A:H4'	2.00	0.43
1:2:1487:A:H2'	1:2:1488:G:H8	1.83	0.43
86:2:2000:OHX:N3	15:C3:12:SER:O	2.52	0.43
4:S2:74:PRO:C	4:S2:76:LEU:H	2.26	0.43
4:S2:156:THR:HG21	4:S2:224:PHE:CD1	2.53	0.43
6:S4:19:LEU:HA	6:S4:19:LEU:HD23	1.65	0.43
7:S5:225:ARG:HD3	30:D8:58:GLU:HG2	2.00	0.43
10:S8:191:PHE:HA	10:S8:194:ARG:NH2	2.33	0.43
14:C2:27:ALA:HB1	14:C2:132:GLU:HB3	2.00	0.43
20:C8:29:VAL:HG22	20:C8:54:LEU:HD12	2.00	0.43
28:D6:41:ILE:HD13	28:D6:41:ILE:H	1.83	0.43
34:SR:215:GLY:O	34:SR:239:GLU:HG3	2.18	0.43
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.53	0.43
36:1:437:G:H2'	36:1:438:A:H8	1.84	0.43
36:1:591:G:N2	43:L6:19:LYS:O	2.50	0.43
36:1:873:C:H4'	36:1:874:U:OP2	2.17	0.43
36:1:2107:A:H2	36:1:3344:A:H8	1.66	0.43
36:1:2864:A:O3'	47:M0:115:MET:HB2	2.17	0.43
36:1:2871:G:OP2	86:1:4071:OHX:N3	2.51	0.43
36:1:2989:U:H2'	36:1:2990:G:O4'	2.19	0.43
86:4:219:OHX:N6	73:O7:62:GLY:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:170:PRO:HG2	40:L3:314:TYR:OH	2.18	0.43
40:L3:173:GLN:O	40:L3:175:LYS:N	2.51	0.43
40:L3:323:MET:HE2	40:L3:323:MET:HB3	1.92	0.43
40:L3:351:LEU:HA	40:L3:351:LEU:HD23	1.76	0.43
41:L4:262:TRP:O	41:L4:276:LEU:HD11	2.18	0.43
42:L5:60:ILE:HB	42:L5:80:SER:HB2	2.00	0.43
45:L8:41:GLN:CG	45:L8:44:ARG:HH12	2.30	0.43
45:L8:63:LYS:O	45:L8:67:ILE:HG13	2.18	0.43
48:M1:109:HIS:O	48:M1:112:LEU:HG	2.19	0.43
49:M3:165:SER:O	49:M3:165:SER:OG	2.35	0.43
58:N2:16:THR:OG1	58:N2:102:GLU:HG2	2.19	0.43
69:O3:10:LYS:HD2	69:O3:33:GLU:OE2	2.18	0.43
1:6:332:U:P	10:s8:56:ARG:HH22	2.41	0.43
1:6:1273:G:O5'	1:6:1274:C:H3'	2.19	0.43
1:6:1662:G:O6	86:6:2028:OHX:N2	2.51	0.43
3:s1:158:SER:HA	3:s1:161:ILE:HD12	2.00	0.43
5:s3:195:SER:OG	5:s3:200:LYS:HA	2.18	0.43
10:s8:61:GLU:O	10:s8:62:THR:OG1	2.26	0.43
11:s9:119:ALA:O	11:s9:124:HIS:ND1	2.51	0.43
14:c2:43:ARG:H	14:c2:43:ARG:HG2	1.61	0.43
18:c6:102:LYS:HB3	18:c6:102:LYS:HE2	1.81	0.43
25:d3:52:ILE:H	25:d3:52:ILE:HG13	1.63	0.43
28:d6:73:TYR:HB3	28:d6:78:ALA:HB2	1.99	0.43
34:sR:18:GLY:O	34:sR:308:ASN:HA	2.18	0.43
36:5:113:C:OP1	51:m5:147:ARG:NH2	2.47	0.43
36:5:117:U:O2	36:5:119:U:H2'	2.19	0.43
36:5:736:A:N6	36:5:737:G:N3	2.67	0.43
36:5:781:G:N7	86:5:3907:OHX:N4	2.66	0.43
36:5:1094:U:H3'	36:5:1096:U:OP1	2.18	0.43
36:5:1103:A:O5'	36:5:1104:G:H5'	2.17	0.43
36:5:1259:A:N6	36:5:1260:A:N1	2.65	0.43
36:5:1504:A:N1	36:5:1515:A:O2'	2.49	0.43
36:5:2139:A:C5	73:o7:3:LYS:HG3	2.54	0.43
36:5:2174:G:H8	36:5:2174:G:OP1	2.01	0.43
36:5:2316:G:OP1	86:5:4103:OHX:N6	2.51	0.43
36:5:2534:G:H1	36:5:2545:C:N4	2.08	0.43
39:l2:149:ARG:HH12	39:l2:253:GLN:CB	2.31	0.43
40:l3:4:ARG:HE	40:l3:4:ARG:HB2	1.53	0.43
41:l4:40:THR:O	41:l4:44:LYS:HE3	2.18	0.43
41:l4:193:LYS:O	41:l4:198:ARG:HG2	2.18	0.43
44:l7:102:VAL:HG13	44:l7:126:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:150:LEU:HD21	45:l8:218:ILE:HD13	2.00	0.43
46:l9:77:ASN:HA	46:l9:80:THR:OG1	2.19	0.43
46:l9:93:VAL:HG22	76:q0:82:LEU:HD13	1.99	0.43
50:m4:21:VAL:HA	50:m4:66:THR:HG23	1.99	0.43
54:m8:103:ALA:HB3	54:m8:106:PHE:CE2	2.52	0.43
55:m9:41:ILE:O	55:m9:45:VAL:HG23	2.18	0.43
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	2.00	0.43
57:n1:96:ILE:HA	57:n1:96:ILE:HD13	1.86	0.43
59:n3:18:PRO:HA	59:n3:51:ALA:HA	1.99	0.43
59:n3:48:ARG:HH11	59:n3:48:ARG:CG	2.21	0.43
66:o0:45:ALA:HB2	66:o0:77:LEU:CD2	2.47	0.43
1:2:195:G:H2'	1:2:196:G:H5'	2.01	0.43
1:2:319:U:H1'	1:2:323:A:C4	2.53	0.43
1:2:704:C:H4'	1:2:705:U:OP1	2.18	0.43
1:2:1000:C:H6	1:2:1002:G:C8	2.36	0.43
1:2:1209:C:H42	1:2:1454:G:H1	1.67	0.43
1:2:1492:A:O2'	1:2:1493:A:H8	1.99	0.43
1:2:1655:A:OP1	86:2:2058:OHX:N3	2.51	0.43
4:S2:49:LYS:HA	4:S2:49:LYS:HD3	1.79	0.43
9:S7:144:VAL:HG22	24:D2:49:GLU:HB2	1.99	0.43
16:C4:128:LYS:NZ	28:D6:27:SER:OG	2.48	0.43
20:C8:70:VAL:HA	20:C8:73:MET:HE3	2.01	0.43
21:C9:28:LEU:HD21	21:C9:30:VAL:HG13	2.01	0.43
23:D1:80:LYS:HB3	23:D1:80:LYS:HE3	1.57	0.43
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.53	0.43
27:D5:41:ILE:HD12	27:D5:41:ILE:HA	1.83	0.43
36:1:1317:A:C4	36:1:1319:G:N7	2.86	0.43
36:1:1629:U:O4	63:N7:111:LYS:HD2	2.18	0.43
37:3:7:G:OP1	42:L5:33:ARG:HD2	2.17	0.43
39:L2:45:VAL:HB	39:L2:61:VAL:HG22	2.00	0.43
41:L4:140:HIS:HA	41:L4:177:ASP:CG	2.43	0.43
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	2.00	0.43
47:M0:48:LEU:O	47:M0:139:ARG:HA	2.17	0.43
49:M3:60:ALA:HA	49:M3:61:PRO:HD3	1.85	0.43
50:M4:65:LEU:HD11	56:N0:152:LEU:HD12	1.99	0.43
53:M7:57:ALA:HB2	53:M7:83:TRP:CE2	2.54	0.43
61:N5:72:ALA:O	61:N5:76:VAL:HG23	2.18	0.43
79:Q3:83:ILE:HG22	79:Q3:87:ARG:NH1	2.34	0.43
1:6:1112:G:OP1	77:q1:6:ARG:NH2	2.51	0.43
1:6:1511:U:H2'	1:6:1512:G:C8	2.53	0.43
1:6:1653:C:N4	1:6:1654:G:C6	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:98:ILE:HD11	2:s0:116:LYS:HG3	2.00	0.43
3:s1:166:LYS:O	3:s1:170:GLU:HG3	2.18	0.43
7:s5:90:ILE:O	7:s5:94:THR:HG23	2.19	0.43
16:c4:22:SER:OG	16:c4:25:ASP:N	2.52	0.43
17:c5:33:PHE:O	17:c5:36:LEU:HD22	2.18	0.43
36:5:151:A:HO2'	36:5:152:U:P	2.40	0.43
36:5:378:A:H3'	36:5:379:C:C6	2.54	0.43
36:5:1025:A:N7	36:5:1026:A:O2'	2.51	0.43
36:5:1564:U:H1'	36:5:1576:G:O6	2.18	0.43
36:5:2556:C:H5'	63:n7:136:PHE:C	2.44	0.43
36:5:3200:G:O6	86:5:4053:OHX:N5	2.51	0.43
38:8:53:A:C4	38:8:54:A:C8	3.06	0.43
38:8:78:G:H2'	38:8:79:A:O4'	2.19	0.43
41:l4:186:LYS:O	41:l4:200:THR:N	2.45	0.43
43:l6:47:PHE:HE2	43:l6:77:ARG:NE	2.16	0.43
46:l9:117:PHE:CE1	46:l9:177:ASP:HB3	2.53	0.43
48:m1:100:GLY:O	48:m1:159:THR:OG1	2.32	0.43
53:m7:112:LEU:HA	53:m7:151:THR:O	2.18	0.43
60:n4:6:ASP:C	60:n4:8:PHE:H	2.26	0.43
79:q3:49:ARG:HD3	79:q3:52:ALA:HA	2.00	0.43
79:q3:76:ALA:O	79:q3:80:ARG:HG3	2.18	0.43
1:2:10:G:H2'	1:2:11:A:H8	1.84	0.43
1:2:629:U:C2	1:2:630:A:C8	3.06	0.43
1:2:952:A:H5'	15:C3:98:VAL:HG22	2.00	0.43
1:2:960:U:H1'	15:C3:52:VAL:HG23	2.00	0.43
1:2:1021:C:H2'	1:2:1022:C:O4'	2.18	0.43
1:2:1253:U:H2'	1:2:1254:U:C6	2.53	0.43
5:S3:190:ARG:HH22	5:S3:195:SER:HA	1.84	0.43
6:S4:104:ASP:HB3	6:S4:106:LYS:H	1.84	0.43
6:S4:142:HIS:C	6:S4:144:GLY:H	2.27	0.43
6:S4:248:ILE:HB	11:S9:71:PHE:CE1	2.54	0.43
15:C3:5:HIS:CE1	15:C3:121:ARG:HE	2.36	0.43
20:C8:48:LYS:HD3	21:C9:35:ASP:HB2	2.01	0.43
20:C8:86:LEU:O	20:C8:89:GLN:HG3	2.18	0.43
22:D0:67:THR:OG1	31:D9:40:ARG:HG3	2.18	0.43
26:D4:10:ARG:HD2	26:D4:26:ASP:HB2	2.00	0.43
35:SM:118:SER:HB3	35:SM:122:GLU:OE2	2.18	0.43
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.19	0.43
36:1:307:A:H2'	36:1:308:A:C8	2.54	0.43
36:1:629:U:H2'	36:1:630:A:C8	2.53	0.43
36:1:1355:A:H4'	36:1:1356:U:O5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1525:G:H5'	36:1:1830:G:OP2	2.17	0.43
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.19	0.43
36:1:3033:A:H2'	36:1:3034:C:H6	1.84	0.43
37:3:52:G:N2	37:3:53:U:C2	2.86	0.43
41:L4:194:TYR:O	41:L4:195:ARG:HG3	2.17	0.43
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.54	0.43
44:L7:217:PRO:HG2	44:L7:218:ARG:H	1.83	0.43
45:L8:75:ILE:C	45:L8:77:GLN:N	2.75	0.43
45:L8:161:GLU:OE2	51:M5:26:ARG:NH1	2.48	0.43
46:L9:61:GLY:O	46:L9:65:VAL:HG23	2.19	0.43
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.53	0.43
49:M3:46:ILE:HG22	49:M3:49:ARG:CB	2.48	0.43
68:O2:24:ARG:HD3	68:O2:25:TYR:CZ	2.53	0.43
69:O3:60:ARG:CZ	69:O3:60:ARG:HB3	2.48	0.43
1:6:525:A:C6	1:6:526:A:C6	3.07	0.43
1:6:1066:C:O3'	3:s1:149:GLN:HG3	2.18	0.43
1:6:1589:C:H2'	1:6:1590:G:C8	2.53	0.43
2:s0:162:CYS:HB3	2:s0:173:ILE:HG13	1.99	0.43
7:s5:72:HIS:HA	7:s5:107:LYS:HE2	1.99	0.43
17:c5:63:ALA:HA	17:c5:66:ALA:HB3	2.00	0.43
18:c6:31:VAL:O	18:c6:33:GLY:N	2.49	0.43
20:c8:44:ASN:O	20:c8:48:LYS:HG3	2.17	0.43
22:d0:26:LEU:HD23	22:d0:26:LEU:HA	1.79	0.43
34:sR:19:TRP:CG	34:sR:38:ARG:HD2	2.53	0.43
34:sR:130:THR:HG22	34:sR:145:LEU:HD23	1.99	0.43
34:sR:248:ASN:HD21	34:sR:298:GLY:HA3	1.82	0.43
34:sR:305:TYR:HE2	34:sR:313:TRP:HH2	1.66	0.43
36:5:550:A:H2'	36:5:551:A:C8	2.54	0.43
36:5:1062:A:H4'	57:n1:105:PHE:CE2	2.54	0.43
36:5:1231:A:OP2	86:5:3922:OHX:N5	2.51	0.43
36:5:1483:G:C8	36:5:1485:G:C8	3.07	0.43
36:5:1686:U:O2'	36:5:1688:U:H4'	2.19	0.43
36:5:2572:C:H1'	36:5:2573:G:O4'	2.19	0.43
36:5:3106:A:H2'	36:5:3107:U:O4'	2.18	0.43
39:l2:92:LYS:HA	39:l2:103:PRO:HD2	1.99	0.43
40:l3:117:ARG:HA	40:l3:175:LYS:HD2	2.01	0.43
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.19	0.43
44:l7:140:SER:O	44:l7:144:ILE:HG12	2.18	0.43
45:l8:156:ASP:OD2	45:l8:156:ASP:N	2.52	0.43
45:l8:162:LEU:HA	51:m5:7:LEU:HD11	1.99	0.43
47:m0:47:PRO:HB3	47:m0:171:TRP:CZ2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:56:GLU:HG3	47:m0:162:GLN:H	1.84	0.43
49:m3:116:LEU:HD23	49:m3:116:LEU:HA	1.77	0.43
50:m4:40:ASP:C	50:m4:42:LYS:N	2.76	0.43
53:m7:71:ALA:O	53:m7:74:LYS:HB2	2.18	0.43
61:n5:54:TYR:O	61:n5:56:ARG:N	2.51	0.43
63:n7:53:VAL:HA	63:n7:57:HIS:CD2	2.53	0.43
71:o5:41:LEU:O	71:o5:44:ILE:HG22	2.17	0.43
73:o7:53:ALA:HA	73:o7:56:ARG:HH11	1.82	0.43
81:p0:67:LEU:HD22	81:p0:67:LEU:HA	1.83	0.43
1:2:369:A:O2'	1:2:371:G:OP2	2.30	0.43
1:2:393:C:H2'	1:2:394:C:C6	2.54	0.43
1:2:803:A:C4	9:S7:104:ARG:HG3	2.53	0.43
1:2:958:U:O4	15:C3:12:SER:OG	2.35	0.43
1:2:1253:U:O2'	33:E1:143:LYS:HA	2.19	0.43
1:2:1253:U:H4'	33:E1:143:LYS:N	2.34	0.43
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.18	0.43
2:S0:163:ASN:C	2:S0:165:ARG:H	2.27	0.43
3:S1:214:LYS:HE3	3:S1:214:LYS:HB2	1.81	0.43
6:S4:77:ARG:HG3	6:S4:82:TYR:CE1	2.54	0.43
13:C1:80:MET:HB3	13:C1:83:THR:HG23	1.99	0.43
34:SR:28:GLY:HA3	34:SR:76:ASP:O	2.19	0.43
35:SM:48:ARG:HE	36:1:1017:C:C4'	2.31	0.43
36:1:160:G:O6	86:1:4107:OHX:N6	2.52	0.43
36:1:535:G:C6	36:1:555:U:N3	2.86	0.43
36:1:856:G:C6	36:1:857:G:N1	2.87	0.43
36:1:1141:C:H2'	36:1:1142:G:O4'	2.19	0.43
36:1:1554:U:C4	36:1:1582:C:H2'	2.53	0.43
36:1:1857:C:C4	36:1:1858:A:C6	3.07	0.43
36:1:2093:A:H2'	36:1:2094:C:O4'	2.18	0.43
36:1:2590:A:C4	36:1:2591:A:C8	3.07	0.43
36:1:2615:G:H2'	36:1:2616:C:C6	2.54	0.43
36:1:2631:U:OP2	57:N1:4:SER:OG	2.32	0.43
36:1:3123:A:C5	36:1:3124:G:C8	3.07	0.43
37:3:67:G:C2'	37:3:68:C:H5'	2.48	0.43
38:4:24:G:OP1	62:N6:17:LYS:NZ	2.34	0.43
38:4:59:A:N1	38:4:100:U:H1'	2.34	0.43
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.18	0.43
39:L2:200:ARG:O	39:L2:201:GLY:C	2.61	0.43
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	1.99	0.43
43:L6:152:THR:HA	43:L6:153:PRO:HD3	1.81	0.43
46:L9:75:VAL:O	46:L9:78:MET:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:153:ARG:O	47:M0:156:ARG:HB2	2.19	0.43
52:M6:13:GLY:O	52:M6:124:LEU:HD12	2.19	0.43
55:M9:130:ASN:HB3	55:M9:131:ALA:H	1.48	0.43
60:N4:7:SER:O	60:N4:8:PHE:HB2	2.19	0.43
61:N5:136:ALA:O	61:N5:139:ILE:HG12	2.18	0.43
71:O5:24:LEU:HA	71:O5:27:GLU:HB2	2.00	0.43
72:O6:54:GLU:O	72:O6:58:ILE:HG23	2.19	0.43
1:6:372:G:H1'	1:6:612:U:O2	2.19	0.43
1:6:447:U:C4	1:6:448:C:C4	3.07	0.43
1:6:620:A:C5	1:6:621:A:N1	2.87	0.43
1:6:704:C:H2'	1:6:705:U:O4'	2.18	0.43
1:6:1018:U:H2'	1:6:1019:A:C8	2.54	0.43
1:6:1206:U:H2'	1:6:1207:C:C5	2.54	0.43
1:6:1422:A:H2'	1:6:1423:U:C6	2.53	0.43
1:6:1529:C:H2'	1:6:1530:C:C6	2.54	0.43
2:s0:177:LEU:O	2:s0:181:VAL:HG13	2.18	0.43
4:s2:139:ILE:CD1	4:s2:191:ALA:HB1	2.49	0.43
7:s5:68:ILE:HD13	7:s5:69:PHE:N	2.33	0.43
10:s8:167:ALA:HA	10:s8:183:ILE:HA	2.00	0.43
13:c1:60:PHE:HB2	13:c1:61:THR:HG23	1.99	0.43
25:d3:103:LEU:HB3	25:d3:126:LYS:HB2	1.99	0.43
36:5:561:C:OP1	50:m4:77:ARG:HG3	2.18	0.43
36:5:1017:C:N4	36:5:2671:A:OP2	2.50	0.43
36:5:1686:U:O4	58:n2:82:LYS:NZ	2.50	0.43
36:5:1940:G:N2	36:5:3362:A:C8	2.87	0.43
36:5:2985:C:H2'	36:5:2986:U:H6	1.83	0.43
36:5:3044:G:O3'	40:l3:13:HIS:HB2	2.19	0.43
36:5:3046:A:H2'	36:5:3047:U:O4'	2.18	0.43
36:5:3329:U:H5''	40:l3:308:MET:HE2	2.01	0.43
36:5:3362:A:C2	36:5:3363:U:C2	3.07	0.43
40:l3:37:ARG:HG3	40:l3:185:GLY:O	2.18	0.43
40:l3:142:ALA:O	40:l3:143:GLY:C	2.62	0.43
40:l3:287:LYS:HD2	40:l3:287:LYS:HA	1.90	0.43
43:l6:105:TYR:C	43:l6:105:TYR:CD1	2.95	0.43
47:m0:30:LYS:HG3	47:m0:63:GLU:HB3	2.00	0.43
50:m4:99:TRP:O	50:m4:103:ILE:HG13	2.18	0.43
54:m8:109:GLY:O	54:m8:113:LYS:HB2	2.19	0.43
55:m9:20:ARG:HH11	55:m9:21:LYS:NZ	2.16	0.43
57:n1:101:CYS:SG	57:n1:102:ARG:N	2.91	0.43
76:q0:107:ALA:O	76:q0:121:LEU:HD12	2.18	0.43
1:2:129:U:O2	86:2:2001:OHX:N1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:281:G:P	1:2:281:G:H8	2.41	0.43
1:2:525:A:H5''	26:D4:89:TYR:CE1	2.54	0.43
1:2:778:G:N3	1:2:778:G:H5''	2.34	0.43
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.51	0.43
1:2:1200:G:H4'	1:2:1201:G:C5'	2.48	0.43
1:2:1230:A:C2'	1:2:1258:U:H5	2.28	0.43
1:2:1291:G:H22	1:2:1324:G:N2	2.16	0.43
1:2:1324:G:OP2	86:2:2051:OHX:N1	2.51	0.43
1:2:1357:A:H61	1:2:1366:U:H3	1.67	0.43
2:S0:198:MET:HE1	19:C7:88:VAL:HB	1.98	0.43
3:S1:124:ASN:OD1	3:S1:124:ASN:N	2.51	0.43
7:S5:124:LEU:HD11	27:D5:59:TYR:HD1	1.83	0.43
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.18	0.43
10:S8:92:ARG:NH1	36:1:2107:A:H1'	2.33	0.43
25:D3:57:LEU:HD11	25:D3:73:ARG:HG2	2.01	0.43
26:D4:35:VAL:HG13	26:D4:36:SER:H	1.82	0.43
36:1:579:G:C2	36:1:580:C:C2	3.07	0.43
36:1:595:G:C8	36:1:609:G:C6	3.07	0.43
36:1:1667:A:N6	36:1:1668:G:O6	2.51	0.43
36:1:1949:G:OP1	55:M9:104:ARG:NH2	2.41	0.43
36:1:2339:C:OP2	59:N3:48:ARG:HG2	2.19	0.43
36:1:2659:G:N7	86:1:3775:OHX:N3	2.67	0.43
36:1:2854:U:O3'	47:M0:160:PRO:HB3	2.18	0.43
36:1:3047:U:C2'	36:1:3048:A:H5'	2.48	0.43
36:1:3072:C:H2'	36:1:3073:A:O4'	2.19	0.43
36:1:3126:C:H1'	46:L9:156:GLN:OE1	2.18	0.43
36:1:3312:U:OP1	86:L3:402:OHX:N2	2.52	0.43
36:1:3318:G:OP2	36:1:3318:G:H2'	2.18	0.43
37:3:96:U:H2'	37:3:97:A:H8	1.84	0.43
38:4:56:G:C2	38:4:57:C:C2	3.06	0.43
38:4:77:A:OP2	86:4:220:OHX:N2	2.52	0.43
40:L3:49:TYR:OH	40:L3:166:ILE:HG13	2.19	0.43
43:L6:30:LEU:HD11	43:L6:63:LEU:HD21	2.00	0.43
44:L7:239:LEU:O	44:L7:242:SER:OG	2.28	0.43
46:L9:150:SER:CB	46:L9:153:ASP:HB2	2.49	0.43
47:M0:140:THR:OG1	47:M0:141:LYS:N	2.47	0.43
47:M0:140:THR:OG1	47:M0:144:ASN:HB3	2.19	0.43
51:M5:103:GLU:O	51:M5:106:VAL:HG13	2.19	0.43
59:N3:14:SER:O	59:N3:81:GLN:NE2	2.52	0.43
64:N8:84:GLU:O	64:N8:87:ARG:HB2	2.19	0.43
66:O0:41:LEU:O	66:O0:92:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:71:ARG:HE	78:Q2:80:ARG:CZ	2.31	0.43
1:6:492:A:H1'	1:6:496:G:H1	1.84	0.43
1:6:592:A:O2'	1:6:596:C:OP1	2.34	0.43
1:6:895:G:O2'	16:c4:37:GLU:HA	2.19	0.43
1:6:1537:C:O2'	1:6:1540:G:O6	2.36	0.43
1:6:1784:C:H2'	1:6:1785:U:H6	1.84	0.43
4:s2:69:ILE:CG1	4:s2:133:LYS:HB3	2.48	0.43
4:s2:206:THR:OG1	4:s2:209:ASN:HB2	2.19	0.43
7:s5:128:ASN:O	7:s5:132:VAL:HG23	2.18	0.43
7:s5:216:GLU:O	7:s5:220:VAL:HG23	2.19	0.43
8:s6:147:LEU:HB3	8:s6:151:ASP:CG	2.44	0.43
13:c1:109:VAL:HG11	13:c1:125:VAL:HG21	2.00	0.43
17:c5:58:LYS:HA	17:c5:61:ARG:HH12	1.84	0.43
23:d1:71:ARG:HG3	29:d7:4:VAL:HG11	1.99	0.43
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.86	0.43
29:d7:58:SER:O	29:d7:60:SER:N	2.51	0.43
36:5:522:A:OP1	86:5:3855:OHX:N4	2.52	0.43
36:5:1252:A:C5	36:5:1253:U:C5	3.06	0.43
36:5:1560:G:O2'	36:5:1561:G:OP1	2.32	0.43
36:5:2686:A:H2'	36:5:2687:G:O4'	2.19	0.43
40:l3:87:VAL:HB	40:l3:110:LEU:HD11	1.99	0.43
40:l3:283:TYR:CE1	40:l3:354:VAL:HG11	2.54	0.43
41:l4:60:THR:HG22	41:l4:62:ALA:N	2.33	0.43
41:l4:108:LYS:HG3	51:m5:203:ARG:HG3	2.01	0.43
50:m4:60:LEU:HA	50:m4:60:LEU:HD23	1.77	0.43
52:m6:42:ASN:ND2	52:m6:125:ARG:HH11	2.17	0.43
55:m9:106:LEU:HD13	55:m9:138:LEU:HD11	2.01	0.43
55:m9:132:PHE:CG	55:m9:138:LEU:HD23	2.54	0.43
57:n1:103:GLN:O	57:n1:103:GLN:NE2	2.50	0.43
58:n2:54:VAL:HG13	58:n2:67:SER:HB2	1.99	0.43
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	2.01	0.43
67:o1:13:THR:HG22	67:o1:72:ARG:CD	2.49	0.43
77:q1:15:ARG:O	77:q1:19:LYS:HD3	2.19	0.43
1:2:372:G:H5'	24:D2:88:LYS:HZ3	1.83	0.43
1:2:1586:A:H2'	1:2:1587:A:O4'	2.19	0.43
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.18	0.43
6:S4:121:TYR:HA	6:S4:164:LEU:HD23	2.00	0.43
7:S5:103:ASN:HA	7:S5:106:LYS:HD2	2.01	0.43
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	2.01	0.43
9:S7:141:ARG:HH21	9:S7:143:LEU:HD21	1.82	0.43
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:65:LYS:HG2	11:S9:70:LEU:HD11	2.00	0.43
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.73	0.43
15:C3:40:TYR:CZ	15:C3:53:LEU:HD23	2.54	0.43
22:D0:60:THR:HG1	22:D0:87:HIS:CG	2.33	0.43
23:D1:31:SER:HB2	23:D1:56:SER:HA	2.01	0.43
24:D2:104:LEU:HA	24:D2:126:LEU:HB2	2.00	0.43
31:D9:10:HIS:ND1	31:D9:11:PRO:HD2	2.34	0.43
34:SR:35:SER:HB3	34:SR:310:ILE:HD11	2.00	0.43
36:1:79:U:OP2	86:1:3816:OHX:N5	2.51	0.43
36:1:566:G:O6	86:1:3898:OHX:N4	2.52	0.43
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.52	0.43
36:1:1162:U:H4'	68:O2:57:TYR:CD1	2.54	0.43
36:1:1245:A:C3'	36:1:1246:G:H5''	2.47	0.43
36:1:1589:A:H4'	70:O4:11:ASN:ND2	2.34	0.43
36:1:1945:A:H2'	36:1:1946:A:H8	1.84	0.43
36:1:2210:G:OP2	36:1:2210:G:H8	2.02	0.43
36:1:2268:U:O2'	36:1:2269:U:H5'	2.19	0.43
36:1:2945:G:H8	36:1:2950:G:O6	2.02	0.43
36:1:3043:C:P	59:N3:48:ARG:HH22	2.42	0.43
36:1:3146:G:O2'	40:L3:100:ARG:NH1	2.52	0.43
36:1:3215:A:N3	36:1:3259:U:N3	2.66	0.43
86:1:4106:OHX:N4	43:L6:129:GLU:HA	2.34	0.43
37:3:104:A:H3'	37:3:105:C:H6	1.83	0.43
39:L2:20:THR:O	39:L2:23:ARG:HG3	2.19	0.43
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.34	0.43
42:L5:50:ARG:HD3	42:L5:65:ILE:HG22	2.01	0.43
44:L7:71:ALA:C	44:L7:73:GLY:H	2.26	0.43
48:M1:91:LEU:HD12	48:M1:163:PHE:CE2	2.54	0.43
48:M1:92:ARG:HA	48:M1:171:VAL:O	2.18	0.43
53:M7:29:THR:HG22	53:M7:87:SER:CB	2.48	0.43
53:M7:52:LEU:HD12	53:M7:52:LEU:HA	1.82	0.43
54:M8:125:ASP:O	54:M8:129:VAL:HG23	2.19	0.43
57:N1:45:ASN:ND2	57:N1:48:ILE:HG12	2.33	0.43
57:N1:65:TYR:CE2	57:N1:88:ARG:HB2	2.53	0.43
61:N5:60:TYR:OH	71:O5:26:LYS:HG3	2.18	0.43
64:N8:86:LYS:O	64:N8:90:TYR:HD2	2.02	0.43
64:N8:88:ASP:O	64:N8:92:LYS:HD2	2.19	0.43
69:O3:90:PRO:C	69:O3:92:LYS:H	2.26	0.43
77:Q1:1:MET:HE3	77:Q1:1:MET:HB2	1.75	0.43
1:6:301:A:H2'	1:6:302:U:O4'	2.18	0.43
1:6:725:U:H2'	1:6:726:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:767:U:H5	11:s9:143:ILE:CG1	2.32	0.43
1:6:778:G:C4	1:6:780:A:C8	3.07	0.43
1:6:829:A:H61	1:6:843:U:H3	1.67	0.43
1:6:855:A:C2	1:6:857:U:H1'	2.53	0.43
1:6:1478:G:C6	1:6:1479:A:C5	3.07	0.43
1:6:1545:A:H2'	1:6:1546:G:C8	2.53	0.43
1:6:1592:A:H2'	1:6:1593:A:C8	2.53	0.43
2:s0:118:PRO:HG2	2:s0:141:ILE:HD13	2.00	0.43
2:s0:155:PHE:HE1	23:d1:30:ALA:HB1	1.84	0.43
4:s2:140:ARG:NH1	23:d1:10:GLU:OE1	2.51	0.43
4:s2:157:LYS:HD3	4:s2:168:ARG:HH21	1.83	0.43
8:s6:199:GLN:O	8:s6:203:GLU:N	2.49	0.43
16:c4:14:PHE:HB3	16:c4:33:LEU:HD11	2.00	0.43
17:c5:122:THR:HG22	17:c5:123:TYR:HD1	1.84	0.43
18:c6:106:LYS:HG2	18:c6:117:LEU:HD11	2.00	0.43
36:5:334:A:H2'	36:5:335:G:H8	1.84	0.43
36:5:573:C:H2'	36:5:574:U:H6	1.82	0.43
36:5:1213:G:O6	86:5:3962:OHX:N4	2.52	0.43
36:5:1692:U:O4	36:5:1693:C:N4	2.51	0.43
36:5:2148:U:H2'	36:5:2149:A:C4	2.54	0.43
36:5:2196:C:O2'	36:5:2270:A:N3	2.49	0.43
36:5:3108:G:H21	46:l9:163:GLN:NE2	2.16	0.43
38:8:49:G:O2'	71:o5:40:SER:HA	2.19	0.43
38:8:77:A:H2'	38:8:78:G:O4'	2.19	0.43
38:8:157:U:H2'	38:8:158:U:C6	2.54	0.43
42:l5:195:LEU:O	42:l5:199:ILE:HG13	2.19	0.43
45:l8:63:LYS:O	45:l8:67:ILE:HG12	2.18	0.43
45:l8:134:TYR:CG	45:l8:190:VAL:HG11	2.53	0.43
46:l9:57:VAL:HG23	46:l9:68:LEU:HG	2.01	0.43
47:m0:45:GLU:O	47:m0:47:PRO:HD3	2.18	0.43
80:m2:54:LYS:HA	80:m2:55:VAL:HA	1.59	0.43
62:n6:19:TYR:HD1	62:n6:20:PHE:CD2	2.37	0.43
65:n9:17:HIS:O	86:n9:101:OHX:N1	2.51	0.43
69:o3:6:ARG:O	69:o3:7:LEU:HD23	2.18	0.43
74:o8:5:ILE:HD13	74:o8:14:LEU:HD12	2.01	0.43
77:q1:2:ARG:HB3	77:q1:5:TRP:CD1	2.54	0.43
79:q3:86:LEU:O	79:q3:90:VAL:HG13	2.19	0.43
1:2:71:A:H2'	1:2:72:A:H4'	2.01	0.43
1:2:131:C:O2'	1:2:132:U:OP1	2.36	0.43
1:2:633:U:H2'	1:2:634:G:O4'	2.19	0.43
1:2:920:U:H5''	3:S1:65:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1188:G:O2'	1:2:1430:U:OP1	2.30	0.43
1:2:1523:G:O6	21:C9:71:VAL:HG11	2.18	0.43
7:S5:70:VAL:O	7:S5:72:HIS:N	2.52	0.43
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.29	0.43
17:C5:74:ALA:HA	17:C5:75:PRO:HD3	1.88	0.43
25:D3:86:PHE:O	25:D3:88:PRO:HD3	2.19	0.43
25:D3:96:VAL:HG23	25:D3:97:ASP:N	2.34	0.43
36:1:607:A:H4'	36:1:608:A:OP2	2.17	0.43
36:1:663:C:H2'	36:1:664:U:H6	1.84	0.43
36:1:744:A:H1'	54:M8:141:ARG:HD2	2.00	0.43
36:1:805:G:H1'	41:L4:73:ARG:NH1	2.34	0.43
36:1:1170:A:H2'	36:1:1171:G:O4'	2.19	0.43
36:1:1369:A:H5''	64:N8:21:ARG:HD2	2.01	0.43
36:1:1722:U:C4	36:1:1723:A:N7	2.86	0.43
36:1:2374:C:N4	36:1:2941:A:C4	2.87	0.43
38:4:10:A:C5	38:4:11:C:C4	3.06	0.43
40:L3:11:HIS:HD1	40:L3:235:THR:HA	1.84	0.43
40:L3:283:TYR:CE2	40:L3:325:LYS:HB2	2.53	0.43
40:L3:314:TYR:CG	40:L3:315:GLY:N	2.85	0.43
42:L5:118:THR:O	42:L5:119:TYR:HB2	2.19	0.43
44:L7:26:VAL:HG23	44:L7:27:ALA:H	1.84	0.43
45:L8:144:GLU:HA	45:L8:173:MET:HE3	2.01	0.43
46:L9:28:VAL:HG22	46:L9:33:THR:OG1	2.18	0.43
48:M1:139:THR:O	48:M1:145:LYS:HG3	2.19	0.43
53:M7:98:ALA:HA	53:M7:101:ASN:HD22	1.84	0.43
55:M9:6:THR:O	55:M9:10:LEU:HB2	2.19	0.43
56:N0:30:PHE:CZ	56:N0:103:VAL:HG21	2.53	0.43
59:N3:18:PRO:HA	59:N3:51:ALA:HA	1.99	0.43
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	2.00	0.43
76:Q0:87:SER:O	76:Q0:91:CYS:HB2	2.19	0.43
1:6:5:U:C2	1:6:20:G:N2	2.87	0.43
1:6:748:U:OP1	24:d2:82:LYS:HE3	2.19	0.43
1:6:1394:G:O2'	1:6:1395:G:H5'	2.19	0.43
3:s1:26:ARG:O	3:s1:26:ARG:HG2	2.17	0.43
3:s1:93:GLY:C	3:s1:95:ASN:H	2.26	0.43
6:s4:58:GLY:HA2	6:s4:61:VAL:HG23	2.01	0.43
6:s4:66:MET:HE1	6:s4:78:THR:OG1	2.17	0.43
15:c3:78:ASN:HB3	15:c3:80:LEU:HD13	2.01	0.43
17:c5:129:GLY:HA3	35:sM:74:LYS:CG	2.46	0.43
22:d0:44:ASN:HD21	22:d0:103:ILE:HD11	1.82	0.43
30:d8:16:LEU:HB2	30:d8:27:GLN:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:52:GLN:HG2	34:sR:53:LYS:N	2.34	0.43
36:5:63:A:P	51:m5:172:ARG:HH22	2.42	0.43
36:5:629:U:H2'	36:5:630:A:C8	2.54	0.43
36:5:742:G:N7	86:5:3919:OHX:N2	2.67	0.43
36:5:1006:A:C2	36:5:1045:C:C2	3.06	0.43
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.51	0.43
36:5:1474:A:O2'	67:o1:57:GLN:NE2	2.52	0.43
36:5:3288:G:O2'	36:5:3289:G:H8	2.02	0.43
42:l5:211:LEU:HD23	42:l5:211:LEU:HA	1.78	0.43
45:l8:68:ARG:H	45:l8:68:ARG:HG2	1.63	0.43
48:m1:139:THR:HG22	48:m1:147:THR:HA	2.00	0.43
54:m8:22:ASP:HA	54:m8:27:LYS:HE3	2.01	0.43
54:m8:131:ALA:HB1	54:m8:135:GLN:H	1.82	0.43
55:m9:21:LYS:O	55:m9:53:LYS:HB2	2.19	0.43
55:m9:40:ALA:O	55:m9:44:LEU:HG	2.19	0.43
58:n2:49:ASN:O	58:n2:51:GLY:N	2.52	0.43
63:n7:17:ARG:C	63:n7:19:ALA:H	2.27	0.43
65:n9:14:ARG:HH12	65:n9:18:ARG:HD3	1.83	0.43
67:o1:19:ARG:HD3	67:o1:35:GLU:CG	2.48	0.43
81:p0:25:LEU:HD11	81:p0:86:PHE:CD1	2.54	0.43
1:2:187:G:C6	1:2:197:A:N6	2.87	0.43
1:2:281:G:H8	1:2:281:G:OP2	2.01	0.43
1:2:372:G:H1'	1:2:612:U:O2	2.19	0.43
1:2:432:G:H2'	1:2:433:C:O4'	2.19	0.43
1:2:1087:A:C2	1:2:1142:A:H4'	2.53	0.43
1:2:1308:G:H2'	1:2:1309:C:C6	2.53	0.43
1:2:1498:G:O2'	1:2:1499:G:H5'	2.19	0.43
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	2.00	0.43
10:S8:88:ASN:OD1	10:S8:88:ASN:N	2.51	0.43
10:S8:192:TYR:O	10:S8:196:LEU:HB2	2.19	0.43
13:C1:92:HIS:O	13:C1:100:TYR:HA	2.18	0.43
17:C5:24:LYS:O	17:C5:28:MET:HB2	2.19	0.43
18:C6:86:ALA:O	18:C6:90:VAL:HG13	2.18	0.43
20:C8:65:GLU:O	20:C8:69:ILE:HG13	2.18	0.43
22:D0:38:SER:OG	22:D0:39:SER:N	2.51	0.43
24:D2:7:LEU:HD13	24:D2:74:VAL:HB	2.00	0.43
26:D4:35:VAL:HG22	26:D4:36:SER:H	1.84	0.43
27:D5:43:ASP:HB2	27:D5:46:LYS:HD2	2.01	0.43
30:D8:13:ILE:HD11	30:D8:31:GLU:CB	2.49	0.43
35:SM:48:ARG:HE	36:1:1017:C:H4'	1.84	0.43
36:1:1064:A:N6	36:1:1096:U:C4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1443:G:O6	86:1:3872:OHX:N3	2.52	0.43
36:1:2349:U:H5'	36:1:2391:G:OP1	2.19	0.43
36:1:2793:G:H4'	78:Q2:66:LYS:HE3	2.01	0.43
36:1:2887:A:H2'	36:1:2887:A:N3	2.34	0.43
36:1:2911:A:H4'	36:1:2912:G:C8	2.53	0.43
36:1:3019:U:H2'	36:1:3020:U:O4'	2.19	0.43
38:4:49:G:H4'	71:O5:35:LYS:HE2	2.01	0.43
39:L2:177:LYS:HB2	79:Q3:29:LEU:HD13	2.01	0.43
40:L3:105:VAL:HG11	40:L3:148:LEU:HD13	2.01	0.43
42:L5:143:LYS:HG3	42:L5:172:TYR:HD2	1.84	0.43
42:L5:201:GLY:O	42:L5:204:VAL:N	2.49	0.43
43:L6:102:ASN:ND2	43:L6:105:TYR:H	2.16	0.43
44:L7:223:PHE:HE2	56:N0:35:VAL:HG21	1.84	0.43
45:L8:221:ASN:OD1	45:L8:221:ASN:N	2.52	0.43
46:L9:111:PHE:HD1	46:L9:127:PRO:HA	1.84	0.43
46:L9:112:ILE:HG21	46:L9:161:LEU:HD11	2.00	0.43
47:M0:74:LYS:HE3	47:M0:74:LYS:HB2	1.88	0.43
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.48	0.43
51:M5:31:ARG:HB2	51:M5:129:TYR:OH	2.18	0.43
60:N4:8:PHE:CD2	60:N4:46:PRO:HG3	2.53	0.43
61:N5:80:ASN:ND2	61:N5:126:LEU:O	2.52	0.43
64:N8:90:TYR:CD1	64:N8:100:PRO:HG3	2.54	0.43
69:O3:39:GLN:H	69:O3:39:GLN:CD	2.27	0.43
1:6:14:C:OP2	4:s2:206:THR:HG21	2.19	0.43
1:6:86:A:H2'	1:6:87:C:H6	1.84	0.43
1:6:94:U:H2'	1:6:95:G:O4'	2.19	0.43
1:6:145:A:C2	1:6:171:A:H2	2.37	0.43
1:6:260:U:O4	10:s8:43:ILE:N	2.29	0.43
1:6:826:U:O4	86:6:2032:OHX:N3	2.52	0.43
1:6:1138:A:H2'	1:6:1139:A:H8	1.84	0.43
1:6:1462:G:N7	20:c8:143:ARG:NH2	2.66	0.43
4:s2:72:LEU:HD12	4:s2:72:LEU:HA	1.85	0.43
5:s3:44:THR:HG23	5:s3:45:LYS:HG3	2.01	0.43
6:s4:35:PRO:HD2	6:s4:83:PRO:HG2	2.00	0.43
9:s7:31:SER:O	9:s7:35:LYS:HE3	2.19	0.43
11:s9:154:LYS:HG3	11:s9:155:HIS:HD2	1.84	0.43
13:c1:86:ILE:HG22	13:c1:88:ARG:HG2	2.01	0.43
18:c6:87:LYS:HB3	18:c6:87:LYS:HE2	1.71	0.43
19:c7:43:SER:OG	19:c7:46:LEU:HB2	2.18	0.43
30:d8:13:ILE:HG13	30:d8:31:GLU:HB2	2.01	0.43
32:e0:39:LEU:HD13	32:e0:39:LEU:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:289:A:N3	51:m5:93:LYS:HG3	2.34	0.43
36:5:614:C:H2'	36:5:615:U:O4'	2.18	0.43
36:5:651:G:H3'	86:5:4084:OHX:N5	2.33	0.43
36:5:804:C:H5'	41:l4:93:MET:HE1	2.01	0.43
36:5:1262:G:H5''	36:5:1263:A:OP2	2.19	0.43
36:5:1517:G:O2'	36:5:1518:U:H5'	2.19	0.43
36:5:1595:U:H4'	36:5:1595:U:OP1	2.18	0.43
36:5:2244:A:H5''	39:l2:243:THR:OG1	2.19	0.43
36:5:2394:G:H5'	40:l3:252:ILE:HG22	2.01	0.43
36:5:2436:U:H3	36:5:2511:A:H62	1.67	0.43
36:5:2567:C:N4	36:5:2568:C:H41	2.17	0.43
39:l2:246:LEU:C	39:l2:247:ARG:HD3	2.44	0.43
42:l5:257:GLU:O	42:l5:258:LYS:NZ	2.40	0.43
45:l8:41:GLN:HG3	45:l8:42:PRO:HD2	1.99	0.43
46:l9:176:LEU:HA	46:l9:176:LEU:HD23	1.84	0.43
47:m0:36:LEU:HD12	47:m0:87:LEU:HB3	2.00	0.43
53:m7:26:PHE:CD1	53:m7:121:GLN:HG3	2.54	0.43
53:m7:46:LYS:HB2	53:m7:46:LYS:HE2	1.87	0.43
53:m7:141:SER:O	53:m7:143:PRO:HD3	2.19	0.43
58:n2:58:GLU:HB2	58:n2:63:VAL:HG13	2.01	0.43
60:n4:119:GLU:O	60:n4:123:ARG:N	2.51	0.43
62:n6:5:SER:C	62:n6:7:ASP:N	2.74	0.43
69:o3:8:TYR:HB3	69:o3:101:PHE:CD1	2.54	0.43
1:2:6:G:OP2	4:S2:205:ARG:HD2	2.19	0.42
1:2:615:A:H2'	1:2:616:G:H8	1.84	0.42
1:2:783:G:H1'	1:2:784:C:C6	2.54	0.42
1:2:1018:U:C2	1:2:1019:A:N7	2.87	0.42
2:S0:148:ASP:N	2:S0:151:SER:OG	2.42	0.42
6:S4:11:ARG:HB2	6:S4:27:TYR:C	2.43	0.42
6:S4:104:ASP:HB3	6:S4:105:VAL:H	1.42	0.42
17:C5:78:THR:OG1	17:C5:79:HIS:N	2.52	0.42
19:C7:104:ASN:OD1	19:C7:104:ASN:N	2.52	0.42
22:D0:109:GLU:HB3	22:D0:112:VAL:HB	2.01	0.42
25:D3:89:ASN:HB2	25:D3:92:CYS:SG	2.59	0.42
28:D6:84:VAL:HG22	28:D6:85:ARG:O	2.18	0.42
36:1:290:G:H2'	36:1:291:C:C6	2.54	0.42
36:1:543:C:H5''	36:1:544:C:H5	1.83	0.42
36:1:549:U:H3'	36:1:550:A:H8	1.84	0.42
36:1:736:A:C5	36:1:737:G:H1'	2.54	0.42
36:1:1466:G:O6	86:1:3774:OHX:N4	2.51	0.42
36:1:1496:C:C2	36:1:1521:G:N2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1597:C:H2'	36:1:1598:G:H8	1.84	0.42
36:1:1598:G:H2'	36:1:1599:G:H8	1.84	0.42
36:1:2107:A:H2	36:1:3344:A:C8	2.37	0.42
36:1:2197:C:N4	36:1:2241:U:H2'	2.33	0.42
36:1:2347:U:H2'	36:1:2348:A:O4'	2.19	0.42
36:1:2818:U:H5'	36:1:2818:U:C6	2.49	0.42
36:1:3159:C:H2'	36:1:3160:U:C6	2.51	0.42
36:1:3166:C:H2'	36:1:3167:A:O4'	2.19	0.42
36:1:3205:G:H2'	36:1:3206:C:C5	2.54	0.42
37:3:35:C:C5	37:3:36:C:C5	3.07	0.42
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.36	0.42
41:L4:177:ASP:OD1	41:L4:180:LYS:HE3	2.18	0.42
44:L7:80:GLN:HG3	57:N1:136:ARG:H	1.84	0.42
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.83	0.42
50:M4:15:VAL:HG13	56:N0:150:PHE:O	2.19	0.42
50:M4:21:VAL:HG11	50:M4:65:LEU:HD23	2.00	0.42
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.52	0.42
55:M9:169:ALA:HA	55:M9:172:ARG:HD2	2.01	0.42
56:N0:106:LEU:HD22	56:N0:123:ILE:HD11	2.01	0.42
62:N6:117:ALA:O	62:N6:121:ARG:HB2	2.19	0.42
1:6:967:A:C6	1:6:968:U:C4	3.06	0.42
1:6:1160:A:OP2	86:6:2159:OHX:N4	2.52	0.42
1:6:1217:A:H4'	12:c0:44:LYS:HE3	2.01	0.42
86:6:2175:OHX:N2	11:s9:161:THR:HG21	2.34	0.42
5:s3:80:ALA:O	5:s3:83:THR:OG1	2.35	0.42
7:s5:45:LYS:HD3	7:s5:45:LYS:HA	1.40	0.42
7:s5:148:ARG:HH11	30:d8:22:ARG:NH2	2.17	0.42
8:s6:178:LEU:HA	8:s6:178:LEU:HD12	1.81	0.42
9:s7:82:GLU:OE2	9:s7:89:HIS:HA	2.19	0.42
18:c6:24:ALA:HB2	18:c6:92:TYR:OH	2.19	0.42
21:c9:138:GLN:HA	21:c9:141:GLU:HG3	2.01	0.42
22:d0:27:THR:HB	22:d0:88:LYS:HG2	2.01	0.42
24:d2:112:ASP:OD2	24:d2:112:ASP:N	2.46	0.42
25:d3:52:ILE:HG22	25:d3:99:ASN:HA	2.01	0.42
30:d8:33:LEU:HD11	30:d8:53:ILE:HD13	2.00	0.42
31:d9:21:CYS:SG	31:d9:24:CYS:N	2.87	0.42
31:d9:30:LEU:HA	31:d9:39:CYS:HA	2.00	0.42
36:5:98:G:H4'	36:5:281:G:OP1	2.19	0.42
36:5:2105:G:H2'	36:5:2106:A:H8	1.84	0.42
36:5:2818:U:H5'	36:5:2818:U:C6	2.48	0.42
86:5:3846:OHX:N4	86:5:4084:OHX:N2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:5:4002:OHX:N3	86:5:4120:OHX:N4	2.67	0.42
38:8:15:G:C6	38:8:16:G:N1	2.87	0.42
39:12:86:GLN:HG3	39:12:87:PHE:N	2.34	0.42
40:13:252:ILE:HD12	40:13:252:ILE:HA	1.81	0.42
46:19:117:PHE:CZ	46:19:165:CYS:HB3	2.54	0.42
49:m3:60:ALA:HA	49:m3:61:PRO:HD3	1.92	0.42
57:n1:102:ARG:NH1	57:n1:106:LEU:HD21	2.33	0.42
61:n5:86:VAL:HG11	61:n5:95:ILE:HG12	2.01	0.42
72:o6:37:THR:OG1	72:o6:38:LYS:N	2.52	0.42
1:2:526:A:H2'	1:2:527:A:O4'	2.19	0.42
1:2:579:A:H2	5:S3:143:ARG:HG2	1.84	0.42
1:2:1182:U:O2	1:2:1184:A:H8	2.02	0.42
1:2:1234:A:H1'	33:E1:140:TYR:OH	2.19	0.42
1:2:1532:U:OP2	27:D5:77:ARG:NH1	2.51	0.42
1:2:1777:G:C6	1:2:1778:G:C6	3.08	0.42
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.18	0.42
4:S2:123:GLY:HA2	4:S2:126:ARG:HD2	2.01	0.42
7:S5:69:PHE:CD2	18:C6:50:GLU:HG3	2.53	0.42
7:S5:89:ILE:O	7:S5:92:ARG:HB2	2.18	0.42
11:S9:113:VAL:HG21	11:S9:129:ILE:HD11	2.01	0.42
12:C0:27:PHE:CD1	12:C0:40:LEU:HD23	2.55	0.42
18:C6:54:LEU:HD12	18:C6:108:ALA:O	2.20	0.42
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.53	0.42
22:D0:66:SER:OG	22:D0:81:THR:HG22	2.20	0.42
24:D2:23:ARG:HD2	24:D2:65:LEU:O	2.18	0.42
24:D2:37:PHE:CE2	24:D2:103:ILE:HD12	2.54	0.42
34:SR:112:SER:HB3	34:SR:154:VAL:HG22	2.01	0.42
36:1:654:C:H2'	36:1:655:C:C6	2.54	0.42
36:1:853:G:N7	79:Q3:2:ALA:HB2	2.33	0.42
36:1:873:C:H2'	36:1:875:G:O4'	2.19	0.42
36:1:1069:C:H2'	36:1:1070:U:O4'	2.19	0.42
36:1:1189:C:C4	52:M6:133:ARG:CZ	3.03	0.42
36:1:1614:C:H2'	36:1:1615:C:H6	1.83	0.42
36:1:2677:G:H2'	36:1:2679:A:H2	1.83	0.42
36:1:2767:U:H2'	36:1:2768:U:C6	2.55	0.42
36:1:2880:U:H1'	40:L3:250:ALA:HB3	2.01	0.42
41:L4:185:LYS:HE2	41:L4:201:GLN:OE1	2.19	0.42
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.19	0.42
42:L5:55:PHE:CZ	42:L5:158:ARG:HG3	2.54	0.42
42:L5:178:ASN:HB3	42:L5:183:TRP:CE2	2.54	0.42
43:L6:175:LYS:HE2	50:M4:111:ALA:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:7:ARG:H	47:M0:7:ARG:HG2	1.54	0.42
48:M1:36:VAL:HG12	48:M1:37:LEU:HD23	2.01	0.42
53:M7:108:ASP:OD1	53:M7:111:LYS:HE2	2.19	0.42
57:N1:65:TYR:HD2	57:N1:75:ILE:HG22	1.84	0.42
61:N5:67:ILE:CD1	61:N5:121:LYS:HG3	2.49	0.42
62:N6:19:TYR:HD1	62:N6:20:PHE:CD2	2.36	0.42
63:N7:15:ARG:C	63:N7:19:ALA:HB2	2.44	0.42
77:Q1:4:LYS:O	77:Q1:7:LYS:HB3	2.18	0.42
1:6:279:G:C6	1:6:281:G:C5	3.07	0.42
1:6:611:U:H5'	25:d3:15:LEU:HD13	2.00	0.42
1:6:766:U:H5'	1:6:767:U:H5''	2.01	0.42
1:6:1325:A:H2'	1:6:1326:A:H8	1.84	0.42
1:6:1332:C:H4'	5:s3:203:PRO:HB3	2.00	0.42
1:6:1486:G:H1'	1:6:1592:A:O2'	2.19	0.42
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.51	0.42
1:6:1541:G:C6	1:6:1542:G:N1	2.87	0.42
1:6:1563:C:H2'	1:6:1564:U:C6	2.54	0.42
1:6:1797:A:N6	28:d6:84:VAL:HB	2.34	0.42
3:s1:231:LEU:O	3:s1:231:LEU:HD22	2.18	0.42
8:s6:64:LYS:NZ	8:s6:81:VAL:HG12	2.34	0.42
10:s8:22:ARG:NE	10:s8:25:ARG:HD2	2.32	0.42
11:s9:111:THR:O	11:s9:115:LYS:HB2	2.19	0.42
14:c2:60:VAL:H	14:c2:87:PRO:HB2	1.83	0.42
24:d2:67:GLY:C	24:d2:69:LEU:H	2.26	0.42
27:d5:62:VAL:O	27:d5:66:VAL:HG23	2.19	0.42
36:5:144:A:N6	36:5:145:G:C2	2.87	0.42
36:5:277:G:H5'	51:m5:91:GLU:OE2	2.19	0.42
36:5:694:C:O2'	41:l4:232:SER:HA	2.18	0.42
36:5:954:U:H1'	65:n9:12:GLN:NE2	2.33	0.42
36:5:958:C:H5'	36:5:2799:A:H2'	2.01	0.42
36:5:1017:C:H42	36:5:2671:A:P	2.42	0.42
36:5:1100:U:H2'	36:5:1101:G:O4'	2.19	0.42
36:5:1171:G:O6	86:5:3918:OHX:N1	2.51	0.42
36:5:1222:G:H1'	36:5:1285:G:N2	2.34	0.42
36:5:1540:U:OP1	86:5:4002:OHX:N2	2.52	0.42
36:5:2786:G:N7	86:5:4061:OHX:N2	2.66	0.42
39:l2:49:VAL:HG13	39:l2:58:LEU:HB2	2.01	0.42
40:l3:9:PRO:HD2	59:n3:45:ARG:HE	1.85	0.42
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	2.00	0.42
43:l6:105:TYR:HD1	43:l6:105:TYR:C	2.27	0.42
46:l9:101:VAL:HG22	46:l9:114:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:152:LEU:HD23	47:m0:152:LEU:HA	1.88	0.42
51:m5:22:LEU:HD12	51:m5:22:LEU:HA	1.87	0.42
53:m7:60:PHE:HB3	53:m7:64:ASN:HB3	2.01	0.42
53:m7:112:LEU:HA	53:m7:112:LEU:HD12	1.87	0.42
56:n0:50:LYS:HB3	56:n0:50:LYS:HE2	1.68	0.42
62:n6:120:GLN:OE1	62:n6:126:LEU:HA	2.19	0.42
63:n7:24:VAL:HG23	63:n7:44:ALA:O	2.18	0.42
69:o3:85:PHE:O	86:o3:202:OHX:N2	2.52	0.42
71:o5:70:TYR:HB3	71:o5:76:GLN:HG2	2.00	0.42
76:q0:96:CYS:HB2	76:q0:110:CYS:HB2	2.00	0.42
1:2:770:A:OP2	86:2:2110:OHX:N6	2.53	0.42
1:2:881:A:H2'	1:2:882:U:O4'	2.20	0.42
1:2:1174:C:C4	1:2:1175:U:C4	3.08	0.42
1:2:1325:A:C2	1:2:1326:A:C5	3.08	0.42
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.19	0.42
3:S1:120:LEU:HD23	3:S1:121:ILE:H	1.84	0.42
11:S9:122:VAL:HG23	11:S9:123:HIS:HD1	1.83	0.42
22:D0:23:ARG:HD3	22:D0:92:ASP:CG	2.44	0.42
25:D3:10:ASN:C	25:D3:12:ALA:H	2.28	0.42
28:D6:19:LYS:HE3	28:D6:19:LYS:HB2	1.85	0.42
28:D6:85:ARG:O	28:D6:86:VAL:HB	2.19	0.42
36:1:371:G:H4'	36:1:396:A:N1	2.34	0.42
36:1:378:A:H1'	62:N6:90:VAL:O	2.20	0.42
36:1:431:U:H2'	36:1:432:G:C8	2.54	0.42
36:1:665:A:H1'	49:M3:14:PHE:CZ	2.55	0.42
36:1:748:U:H2'	36:1:749:C:C6	2.54	0.42
36:1:873:C:O3'	36:1:875:G:H5'	2.19	0.42
36:1:1109:U:H2'	36:1:1110:U:O4'	2.20	0.42
36:1:1235:U:H3	36:1:1263:A:H62	1.67	0.42
36:1:1278:A:O2'	36:1:1279:C:H6	2.02	0.42
36:1:1462:A:H2'	36:1:1463:U:O4'	2.19	0.42
36:1:1526:U:H5'	36:1:1594:A:N6	2.34	0.42
36:1:1573:G:C2	36:1:1574:C:H1'	2.54	0.42
36:1:1926:C:H3'	79:Q3:7:LYS:HG2	2.00	0.42
36:1:3205:G:H2'	36:1:3206:C:C4	2.54	0.42
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.27	0.42
40:L3:32:PHE:CD1	40:L3:182:GLN:HB3	2.55	0.42
40:L3:292:ALA:HB1	40:L3:295:ALA:HB3	2.01	0.42
43:L6:50:LYS:HG2	43:L6:74:VAL:HG21	2.00	0.42
43:L6:172:HIS:CE1	69:O3:35:VAL:HG22	2.54	0.42
44:L7:139:PRO:HA	44:L7:237:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.20	0.42
51:M5:38:ARG:HH21	51:M5:60:VAL:HG13	1.84	0.42
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.54	0.42
51:M5:119:TYR:OH	51:M5:131:GLU:OE1	2.28	0.42
63:N7:54:THR:H	63:N7:57:HIS:HB2	1.84	0.42
1:6:478:A:O2'	11:s9:124:HIS:CD2	2.72	0.42
1:6:913:G:H3'	1:6:914:G:H5''	2.01	0.42
1:6:961:U:H2'	1:6:962:C:H6	1.83	0.42
1:6:1081:A:H1'	1:6:1082:C:H5	1.84	0.42
1:6:1227:A:O2'	14:c2:44:GLY:HA3	2.19	0.42
1:6:1548:G:H2'	1:6:1549:C:H6	1.85	0.42
2:s0:110:TYR:CE2	4:s2:64:LYS:HD2	2.54	0.42
3:s1:205:PHE:HA	3:s1:206:PRO:HD2	1.81	0.42
4:s2:172:ALA:HA	4:s2:173:PRO:HD3	1.94	0.42
7:s5:77:TYR:HB3	7:s5:84:LYS:HA	2.01	0.42
8:s6:73:ILE:HG22	8:s6:74:LYS:H	1.84	0.42
9:s7:63:PRO:HB2	9:s7:64:VAL:H	1.67	0.42
9:s7:67:LEU:HD23	9:s7:67:LEU:HA	1.87	0.42
13:c1:55:ASP:C	13:c1:57:LYS:H	2.27	0.42
14:c2:45:LEU:HB3	14:c2:46:ARG:H	1.51	0.42
25:d3:97:ASP:O	25:d3:100:ASP:HB2	2.19	0.42
34:sR:132:LYS:HA	34:sR:142:ALA:O	2.20	0.42
36:5:33:G:O2'	36:5:51:A:N6	2.50	0.42
36:5:71:A:OP2	64:n8:67:HIS:NE2	2.43	0.42
36:5:408:A:N6	38:8:15:G:H1'	2.33	0.42
36:5:818:C:C2	36:5:920:A:H5'	2.54	0.42
36:5:1318:A:OP1	52:m6:18:ARG:NH2	2.47	0.42
36:5:1347:U:H5''	41:l4:303:GLY:H	1.84	0.42
36:5:1482:A:N7	36:5:1866:C:O2'	2.47	0.42
36:5:1485:G:N2	70:o4:4:ARG:HD2	2.34	0.42
36:5:1506:A:H1'	36:5:1848:G:C6	2.53	0.42
36:5:1852:G:H1'	73:o7:9:GLY:HA3	2.02	0.42
36:5:1856:C:H2'	36:5:1857:C:H6	1.84	0.42
36:5:2175:U:H4'	36:5:2176:U:OP2	2.19	0.42
36:5:2209:U:H1'	36:5:2210:G:H5''	2.01	0.42
36:5:2375:G:N2	36:5:2377:G:C8	2.86	0.42
36:5:2426:U:H2'	36:5:2427:U:C6	2.54	0.42
36:5:2586:G:N7	45:l8:241:LYS:HB2	2.34	0.42
36:5:2741:C:H4'	78:q2:19:LYS:HA	2.01	0.42
36:5:3115:C:O2'	36:5:3117:C:N4	2.48	0.42
36:5:3181:C:H2'	36:5:3182:G:H8	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3376:A:H5'	36:5:3377:G:H5''	2.01	0.42
41:14:74:ILE:HG13	41:14:75:PRO:HD2	2.01	0.42
41:14:143:GLU:O	86:14:402:OHX:N1	2.52	0.42
41:14:281:ILE:HB	54:m8:29:LEU:HD21	2.00	0.42
42:15:115:LEU:HD12	42:l5:119:TYR:HD2	1.83	0.42
43:16:175:LYS:HB2	50:m4:112:LEU:O	2.20	0.42
44:l7:103:LEU:N	44:l7:130:ILE:HD11	2.35	0.42
44:l7:119:VAL:HG13	44:l7:124:LEU:HD23	2.01	0.42
44:l7:132:PRO:HA	44:l7:229:PHE:CD1	2.54	0.42
46:l9:150:SER:HB3	46:l9:153:ASP:HB2	2.01	0.42
53:m7:70:THR:OG1	53:m7:71:ALA:N	2.52	0.42
61:n5:45:LYS:HB3	71:o5:75:TYR:HD2	1.84	0.42
68:o2:111:ARG:O	68:o2:114:ALA:HB3	2.18	0.42
72:o6:15:LYS:HD2	72:o6:16:LYS:H	1.84	0.42
74:o8:12:LEU:HD13	74:o8:12:LEU:HA	1.92	0.42
81:p0:67:LEU:HD21	81:p0:74:GLU:HB2	2.00	0.42
1:2:29:U:H2'	1:2:30:G:C8	2.54	0.42
1:2:988:A:C2	1:2:989:U:H1'	2.55	0.42
1:2:1066:C:O3'	3:S1:149:GLN:HG3	2.19	0.42
1:2:1110:G:N2	1:2:1136:U:H1'	2.34	0.42
1:2:1113:A:H5''	77:Q1:6:ARG:HH21	1.83	0.42
1:2:1357:A:N6	1:2:1366:U:H3	2.17	0.42
2:S0:41:ARG:HB3	2:S0:45:VAL:O	2.19	0.42
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.19	0.42
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	2.00	0.42
11:S9:92:LYS:C	11:S9:94:ASP:H	2.21	0.42
13:C1:44:THR:O	13:C1:44:THR:OG1	2.35	0.42
16:C4:107:ARG:C	16:C4:109:GLY:H	2.26	0.42
22:D0:33:GLN:O	22:D0:37:VAL:HG23	2.19	0.42
23:D1:80:LYS:O	23:D1:80:LYS:NZ	2.49	0.42
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.19	0.42
36:1:126:U:H2'	36:1:127:G:O4'	2.20	0.42
36:1:384:A:H1'	36:1:1465:A:C8	2.54	0.42
36:1:541:U:H2'	36:1:542:G:C8	2.54	0.42
36:1:551:A:O2'	36:1:552:G:H8	2.02	0.42
36:1:621:A:OP1	53:M7:165:VAL:HG11	2.18	0.42
36:1:1252:A:H2'	36:1:1253:U:C5	2.54	0.42
36:1:1467:A:N1	36:1:1511:U:O2'	2.41	0.42
36:1:1549:U:O4	86:1:3915:OHX:N1	2.53	0.42
36:1:1624:G:O2'	36:1:1643:A:N1	2.47	0.42
36:1:2223:A:N1	36:1:2783:U:H1'	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2389:C:H2'	36:1:2390:A:C8	2.55	0.42
36:1:2403:G:O6	86:1:4076:OHX:N6	2.52	0.42
36:1:2577:C:H2'	36:1:2578:U:O4'	2.19	0.42
36:1:2900:A:H2	36:1:3025:C:O2	2.02	0.42
41:L4:198:ARG:HD3	41:L4:199:TRP:NE1	2.35	0.42
41:L4:257:LYS:O	41:L4:257:LYS:HG2	2.20	0.42
46:L9:92:TYR:HB2	46:L9:142:ASP:HB3	2.02	0.42
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.84	0.42
59:N3:83:LYS:HE2	59:N3:84:SER:N	2.34	0.42
67:O1:96:VAL:O	67:O1:98:VAL:N	2.53	0.42
1:6:246:G:N2	13:c1:38:ALA:O	2.52	0.42
1:6:386:G:H2'	1:6:387:A:C8	2.54	0.42
1:6:1207:C:H5''	86:6:2094:OHX:N3	2.35	0.42
1:6:1553:G:N2	1:6:1555:A:H3'	2.35	0.42
1:6:1773:C:OP2	77:q1:2:ARG:NH1	2.52	0.42
2:s0:59:LEU:O	2:s0:63:ILE:HG13	2.19	0.42
3:s1:24:PHE:HA	3:s1:27:LYS:CG	2.48	0.42
7:s5:63:GLN:HB3	7:s5:88:PRO:HA	2.00	0.42
7:s5:113:ILE:O	7:s5:117:THR:OG1	2.34	0.42
8:s6:148:SER:O	8:s6:151:ASP:HB2	2.19	0.42
9:s7:35:LYS:HE3	9:s7:35:LYS:HB3	1.88	0.42
11:s9:39:LYS:HB3	11:s9:43:TYR:CZ	2.55	0.42
14:c2:59:LEU:HB3	14:c2:123:VAL:HB	2.00	0.42
15:c3:70:LYS:H	15:c3:70:LYS:HG2	1.40	0.42
15:c3:130:ARG:HD3	15:c3:137:PRO:O	2.19	0.42
16:c4:43:THR:OG1	16:c4:46:MET:HG3	2.19	0.42
21:c9:73:VAL:HG21	21:c9:102:ARG:HG3	2.02	0.42
22:d0:53:LYS:HD3	22:d0:53:LYS:HA	1.82	0.42
24:d2:95:PRO:HD3	24:d2:130:TYR:CD1	2.55	0.42
26:d4:27:VAL:O	26:d4:68:LYS:HA	2.19	0.42
26:d4:60:PHE:CD1	26:d4:71:GLY:HA3	2.54	0.42
32:e0:46:ASN:O	32:e0:47:VAL:HG12	2.19	0.42
34:sR:201:THR:HG21	34:sR:242:SER:CA	2.50	0.42
36:5:191:U:H2'	36:5:192:C:C6	2.55	0.42
36:5:626:U:H2'	36:5:627:U:O4'	2.20	0.42
36:5:914:A:N1	39:l2:204:MET:HE3	2.34	0.42
36:5:1481:A:O3'	36:5:1858:A:O2'	2.34	0.42
36:5:2767:U:O3'	78:q2:31:GLY:HA3	2.19	0.42
37:7:10:C:O2	42:l5:21:ARG:N	2.41	0.42
37:7:47:C:H2'	37:7:48:U:H6	1.84	0.42
38:8:136:G:OP1	61:n5:48:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.36	0.42
41:l4:119:ARG:O	41:l4:120:TYR:C	2.62	0.42
41:l4:206:LEU:HB3	41:l4:248:VAL:HG22	2.02	0.42
44:l7:239:LEU:HD22	44:l7:243:MET:SD	2.59	0.42
60:n4:126:GLU:HG3	60:n4:129:LYS:HD2	2.01	0.42
61:n5:71:THR:O	61:n5:75:LYS:HG3	2.19	0.42
67:o1:6:ASP:O	67:o1:8:VAL:HG13	2.19	0.42
67:o1:70:ARG:HE	67:o1:102:LYS:NZ	2.17	0.42
67:o1:75:ILE:HG12	67:o1:93:VAL:HG13	2.02	0.42
1:2:398:G:H8	1:2:398:G:O5'	2.03	0.42
1:2:703:G:H2'	1:2:704:C:H5'	2.00	0.42
1:2:706:A:H61	1:2:734:A:N6	2.16	0.42
1:2:959:U:H5'	15:C3:15:ALA:O	2.19	0.42
1:2:1298:U:H2'	1:2:1299:G:O4'	2.20	0.42
5:S3:218:LEU:HD23	5:S3:218:LEU:HA	1.83	0.42
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.20	0.42
8:S6:23:ARG:O	8:S6:26:VAL:HG23	2.20	0.42
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	2.01	0.42
9:S7:102:PRO:HD3	9:S7:112:ARG:HD2	2.01	0.42
12:C0:46:LEU:HG	12:C0:66:TYR:CD2	2.53	0.42
13:C1:94:ILE:HA	13:C1:95:PRO:HD3	1.85	0.42
15:C3:100:LYS:O	15:C3:104:ARG:HG3	2.20	0.42
16:C4:41:ARG:O	16:C4:42:VAL:HG22	2.20	0.42
24:D2:28:ARG:HG3	24:D2:29:PRO:HA	2.01	0.42
26:D4:88:THR:O	26:D4:92:VAL:HG23	2.20	0.42
27:D5:38:HIS:CG	27:D5:39:ALA:N	2.87	0.42
28:D6:58:VAL:HG23	28:D6:59:TYR:CD2	2.54	0.42
36:1:209:A:H4'	36:1:211:A:H8	1.82	0.42
36:1:628:A:H4'	36:1:1399:A:C6	2.55	0.42
36:1:980:A:H2	36:1:1104:G:HO2'	1.64	0.42
36:1:1192:C:N3	86:1:3945:OHX:N5	2.67	0.42
36:1:1277:C:O2'	36:1:1278:A:C8	2.72	0.42
36:1:1341:U:H2'	36:1:1342:C:H6	1.84	0.42
36:1:1900:A:N6	36:1:1908:A:H61	2.16	0.42
36:1:2197:C:C2	36:1:2241:U:C4	3.07	0.42
36:1:2534:G:H22	36:1:2545:C:N4	2.17	0.42
36:1:2561:A:O2'	36:1:2562:A:O5'	2.36	0.42
38:4:91:C:H2'	38:4:92:A:C8	2.54	0.42
38:4:127:U:C2'	38:4:128:U:H5'	2.48	0.42
39:L2:79:ASN:HA	39:L2:169:ILE:HA	2.00	0.42
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:19:LEU:O	52:M6:23:VAL:HG23	2.20	0.42
52:M6:46:GLU:HG2	52:M6:48:PHE:H	1.83	0.42
55:M9:60:LYS:HZ3	55:M9:60:LYS:HB2	1.84	0.42
55:M9:149:ALA:O	55:M9:152:GLU:HB3	2.19	0.42
58:N2:49:ASN:C	58:N2:51:GLY:H	2.28	0.42
61:N5:117:ASN:HA	75:O9:14:ALA:HB1	2.02	0.42
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.27	0.42
73:O7:84:SER:O	73:O7:85:LYS:HB2	2.20	0.42
77:Q1:5:TRP:O	77:Q1:9:ARG:N	2.49	0.42
1:6:103:A:OP1	86:6:2033:OHX:N4	2.53	0.42
1:6:824:G:C6	1:6:825:U:O4	2.73	0.42
1:6:1483:A:H4'	18:c6:71:GLY:HA2	2.00	0.42
1:6:1584:G:N2	1:6:1610:G:H2'	2.35	0.42
2:s0:56:LYS:NZ	2:s0:158:VAL:HA	2.32	0.42
5:s3:134:CYS:SG	5:s3:135:GLU:N	2.92	0.42
7:s5:61:TYR:HE1	7:s5:165:LEU:HB2	1.85	0.42
8:s6:55:GLY:O	8:s6:63:MET:HG3	2.19	0.42
8:s6:137:ARG:HB3	8:s6:140:ASN:HB2	2.01	0.42
21:c9:40:SER:OG	21:c9:41:SER:N	2.50	0.42
21:c9:70:GLN:HG2	21:c9:70:GLN:O	2.20	0.42
23:d1:83:TRP:CZ2	23:d1:85:TYR:HA	2.55	0.42
27:d5:80:LEU:HD22	27:d5:101:TYR:CE2	2.55	0.42
36:5:750:G:N3	36:5:751:A:C8	2.87	0.42
36:5:1390:A:H5'	36:5:1390:A:N3	2.34	0.42
36:5:1750:A:OP2	74:o8:42:LYS:NZ	2.37	0.42
36:5:1833:G:O2'	75:o9:4:GLN:HA	2.19	0.42
36:5:2828:G:N2	36:5:2863:G:H1'	2.35	0.42
40:l3:103:THR:HG21	40:l3:147:GLU:OE2	2.19	0.42
40:l3:241:LYS:HE2	40:l3:241:LYS:HB3	1.83	0.42
42:l5:64:ILE:HG13	42:l5:109:THR:HG21	2.01	0.42
42:l5:81:HIS:CD2	42:l5:81:HIS:C	2.97	0.42
49:m3:81:LYS:C	49:m3:83:ALA:H	2.27	0.42
49:m3:107:GLU:OE1	72:o6:18:THR:OG1	2.22	0.42
50:m4:115:PHE:C	50:m4:115:PHE:CD2	2.97	0.42
52:m6:41:LEU:HD12	52:m6:41:LEU:HA	1.79	0.42
55:m9:69:SER:HB2	55:m9:74:ARG:CB	2.49	0.42
60:n4:63:ILE:HB	60:n4:64:THR:H	1.53	0.42
70:o4:94:LEU:HD23	70:o4:94:LEU:HA	1.81	0.42
1:2:372:G:H5'	24:D2:88:LYS:NZ	2.34	0.42
1:2:694:U:H3'	1:2:695:U:C6	2.55	0.42
1:2:805:U:O4	9:S7:104:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1291:G:N2	1:2:1325:A:N3	2.66	0.42
1:2:1365:C:O3'	18:C6:30:LYS:NZ	2.52	0.42
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.18	0.42
1:2:1498:G:H2'	1:2:1499:G:H8	1.84	0.42
1:2:1685:G:H22	1:2:1716:C:N4	2.17	0.42
4:S2:233:GLN:HA	4:S2:234:PRO:HD3	1.90	0.42
5:S3:69:LEU:O	5:S3:72:LEU:HB2	2.19	0.42
5:S3:113:LEU:HD11	5:S3:117:ARG:NH1	2.34	0.42
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	2.01	0.42
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	2.00	0.42
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.85	0.42
18:C6:14:LYS:O	18:C6:123:ARG:NH2	2.51	0.42
20:C8:123:ARG:HG3	20:C8:133:VAL:HG21	2.00	0.42
22:D0:63:LEU:O	22:D0:83:GLU:HA	2.19	0.42
24:D2:104:LEU:HB3	24:D2:125:ILE:HA	2.01	0.42
34:SR:166:SER:HA	34:SR:184:ASN:HD21	1.83	0.42
36:1:821:U:OP2	86:1:3875:OHX:N3	2.52	0.42
36:1:1002:A:H2'	36:1:1003:A:H8	1.84	0.42
36:1:1246:G:H8	36:1:1246:G:OP1	2.01	0.42
36:1:2108:C:H1'	36:1:3344:A:C8	2.55	0.42
36:1:2269:U:H2'	36:1:2271:A:OP2	2.20	0.42
36:1:2723:U:H2'	36:1:2724:U:C6	2.54	0.42
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.49	0.42
40:L3:360:ASP:OD2	60:N4:17:ARG:NH2	2.52	0.42
42:L5:278:SER:OG	42:L5:281:GLU:HG3	2.19	0.42
43:L6:131:LYS:HG2	43:L6:133:GLU:H	1.83	0.42
50:M4:16:GLU:OE1	50:M4:19:ARG:NH1	2.48	0.42
50:M4:17:VAL:HG11	50:M4:74:ARG:HA	2.02	0.42
52:M6:106:GLU:H	52:M6:106:GLU:HG2	1.64	0.42
57:N1:85:LEU:HD23	57:N1:85:LEU:HA	1.77	0.42
65:N9:47:LEU:C	65:N9:49:GLY:N	2.75	0.42
1:6:383:G:O6	86:6:2115:OHX:N5	2.53	0.42
1:6:901:G:N1	1:6:902:G:C6	2.88	0.42
1:6:1009:U:H2'	1:6:1010:C:H6	1.85	0.42
1:6:1193:A:H4'	22:d0:75:GLY:HA2	2.02	0.42
1:6:1545:A:H2'	1:6:1546:G:H8	1.84	0.42
1:6:1590:G:H2'	1:6:1591:C:C6	2.54	0.42
1:6:1783:C:H2'	1:6:1784:C:C6	2.54	0.42
2:s0:7:PHE:CD2	2:s0:191:ARG:CZ	3.02	0.42
2:s0:75:ALA:HB1	2:s0:174:TRP:CH2	2.54	0.42
4:s2:208:GLU:O	4:s2:212:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:12:VAL:HG21	31:d9:34:TYR:HB3	2.02	0.42
5:s3:60:GLY:HA3	5:s3:65:ARG:HB3	2.01	0.42
8:s6:214:LYS:HB2	8:s6:214:LYS:HE3	1.88	0.42
10:s8:74:LYS:HB2	10:s8:109:PHE:CE1	2.55	0.42
11:s9:27:GLU:OE1	11:s9:39:LYS:NZ	2.27	0.42
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	2.00	0.42
17:c5:51:SER:HB3	17:c5:52:LYS:H	1.46	0.42
20:c8:5:VAL:O	27:d5:42:LEU:HB2	2.19	0.42
20:c8:114:GLU:HA	20:c8:117:LYS:HB2	2.01	0.42
29:d7:31:TYR:CD2	29:d7:48:SER:HB3	2.54	0.42
34:sR:32:LEU:HA	34:sR:45:TRP:O	2.20	0.42
36:5:41:G:H4'	36:5:2410:U:H2'	2.01	0.42
36:5:952:A:H1'	36:5:1114:U:H1'	2.00	0.42
36:5:1151:U:O4	36:5:1200:A:N6	2.52	0.42
36:5:1510:G:H8	36:5:1510:G:O5'	2.02	0.42
36:5:1559:A:H4'	36:5:1560:G:OP2	2.20	0.42
36:5:1615:C:OP1	86:5:3970:OHX:N5	2.53	0.42
36:5:1658:G:H2'	36:5:1659:U:H6	1.84	0.42
36:5:1658:G:C4	36:5:1796:G:C5	3.08	0.42
36:5:1807:G:H5'	63:n7:135:ARG:NH1	2.33	0.42
36:5:2885:C:N4	36:5:2886:U:O4	2.53	0.42
40:l3:84:VAL:HG23	40:l3:163:HIS:C	2.44	0.42
43:l6:176:PHE:CE2	69:o3:107:ILE:HD13	2.54	0.42
48:m1:140:ARG:HD3	48:m1:140:ARG:HA	1.78	0.42
50:m4:115:PHE:C	50:m4:115:PHE:HD2	2.28	0.42
57:n1:154:VAL:HG23	57:n1:155:PRO:O	2.19	0.42
62:n6:55:GLU:HB3	62:n6:108:LYS:HB2	2.02	0.42
63:n7:81:LEU:HD12	70:o4:93:PHE:CE2	2.55	0.42
1:2:591:A:H5''	11:S9:24:LEU:HD22	2.01	0.42
1:2:1054:U:H2'	1:2:1055:U:H6	1.84	0.42
1:2:1429:G:C1'	22:D0:74:GLU:HG2	2.50	0.42
1:2:1545:A:H2'	1:2:1546:G:H8	1.85	0.42
1:2:1622:G:H2'	1:2:1623:C:C6	2.55	0.42
1:2:1663:G:C6	1:2:1664:C:C4	3.08	0.42
1:2:1783:C:H2'	1:2:1784:C:C6	2.52	0.42
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.26	0.42
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	2.02	0.42
9:S7:30:SER:O	9:S7:31:SER:HB2	2.20	0.42
10:S8:76:THR:HB	10:S8:105:ASP:CB	2.49	0.42
10:S8:136:SER:HB3	10:S8:139:ALA:HB2	2.00	0.42
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:126:GLU:CD	21:C9:126:GLU:N	2.77	0.42
36:1:386:A:C5	36:1:387:A:H1'	2.54	0.42
36:1:1169:A:OP1	86:1:3854:OHX:N3	2.53	0.42
36:1:1431:G:OP2	64:N8:12:ARG:NH1	2.53	0.42
36:1:1598:G:H2'	36:1:1599:G:C8	2.54	0.42
36:1:1604:G:H2'	36:1:1605:A:O4'	2.20	0.42
36:1:2175:U:O2	39:L2:23:ARG:HB2	2.20	0.42
36:1:2187:G:OP2	86:1:3897:OHX:N5	2.52	0.42
36:1:2357:A:H2'	36:1:2358:A:C8	2.54	0.42
36:1:2416:U:H2'	36:1:2417:U:C6	2.55	0.42
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.46	0.42
39:L2:41:ILE:HG12	39:L2:42:ARG:N	2.35	0.42
40:L3:199:PHE:O	40:L3:200:GLU:HB2	2.20	0.42
41:L4:3:ARG:NH1	41:L4:22:LEU:HD12	2.32	0.42
46:L9:1:MET:HE2	46:L9:3:TYR:CE1	2.54	0.42
47:M0:48:LEU:HA	47:M0:178:ARG:HH12	1.85	0.42
48:M1:109:HIS:HA	48:M1:112:LEU:HD21	2.01	0.42
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	2.02	0.42
50:M4:54:PRO:O	50:M4:56:GLN:HG2	2.19	0.42
51:M5:70:ASN:ND2	51:M5:93:LYS:HD3	2.34	0.42
53:M7:116:HIS:NE2	53:M7:118:GLN:HG2	2.34	0.42
57:N1:11:THR:HG22	57:N1:14:MET:HB3	2.00	0.42
62:N6:36:SER:HG	62:N6:106:ILE:C	2.18	0.42
62:N6:37:LYS:CG	62:N6:38:GLU:H	2.32	0.42
69:O3:12:LYS:HB2	69:O3:31:LYS:HB3	2.02	0.42
71:O5:47:VAL:O	71:O5:51:ILE:HG13	2.20	0.42
72:O6:99:ARG:HB3	72:O6:100:HIS:H	1.57	0.42
1:6:363:G:H1	1:6:381:C:H42	1.67	0.42
1:6:565:C:O2	86:6:2123:OHX:N6	2.53	0.42
1:6:1051:G:O2'	1:6:1052:U:OP1	2.36	0.42
1:6:1219:A:O2'	12:c0:48:SER:HA	2.20	0.42
1:6:1429:G:H2'	1:6:1430:U:C6	2.55	0.42
1:6:1473:U:O4	7:s5:180:ARG:NH2	2.53	0.42
1:6:1616:G:H2'	1:6:1617:U:C6	2.54	0.42
4:s2:229:LEU:HD11	23:d1:10:GLU:OE1	2.19	0.42
8:s6:57:ASP:HA	8:s6:106:LEU:HA	2.02	0.42
11:s9:60:LEU:HD21	11:s9:93:LEU:CB	2.49	0.42
11:s9:123:HIS:CE1	32:e0:37:ARG:HD2	2.55	0.42
21:c9:28:LEU:HD23	21:c9:111:ILE:CD1	2.49	0.42
34:sR:5:GLU:HA	34:sR:317:THR:HA	2.01	0.42
36:5:20:A:N6	36:5:21:G:O6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:29:C:O2'	51:m5:162:ARG:O	2.30	0.42
36:5:170:G:N7	86:5:4130:OHX:N3	2.68	0.42
36:5:334:A:H2'	36:5:335:G:C8	2.54	0.42
36:5:627:U:H4'	36:5:1399:A:O2'	2.19	0.42
36:5:1668:G:H2'	36:5:1669:C:O4'	2.20	0.42
36:5:1677:G:N2	36:5:1755:C:O2'	2.40	0.42
36:5:1720:U:P	55:m9:110:ARG:HH12	2.42	0.42
36:5:1764:U:OP2	55:m9:43:LYS:HG2	2.19	0.42
36:5:1816:A:O2'	36:5:1817:G:OP1	2.30	0.42
36:5:1861:G:OP2	86:5:3910:OHX:N2	2.52	0.42
36:5:2356:A:H4'	53:m7:138:LYS:O	2.19	0.42
36:5:2413:A:H2	36:5:2809:C:N4	2.18	0.42
36:5:2437:G:H1	36:5:2510:U:H3	1.67	0.42
36:5:2924:U:C5	36:5:2925:C:C2	3.07	0.42
86:5:3978:OHX:N3	86:5:4052:OHX:N4	2.67	0.42
38:8:126:A:O2'	38:8:128:U:OP2	2.32	0.42
40:l3:53:MET:HG2	40:l3:77:THR:HG22	2.01	0.42
40:l3:188:ILE:O	40:l3:191:LYS:HB2	2.20	0.42
41:l4:140:HIS:CD2	41:l4:247:PHE:H	2.38	0.42
45:l8:64:ILE:O	45:l8:68:ARG:HG2	2.20	0.42
45:l8:152:LEU:O	45:l8:197:VAL:HA	2.19	0.42
46:l9:1:MET:SD	56:n0:138:GLN:NE2	2.88	0.42
47:m0:38:LYS:HB3	47:m0:46:PHE:CE2	2.54	0.42
52:m6:179:ALA:HA	52:m6:182:ASN:HB3	2.02	0.42
60:n4:33:ASN:ND2	60:n4:35:LYS:HB3	2.34	0.42
61:n5:38:LEU:HB3	61:n5:39:LYS:H	1.68	0.42
63:n7:81:LEU:HA	63:n7:81:LEU:HD22	1.67	0.42
64:n8:101:VAL:HG22	64:n8:124:ILE:HB	2.01	0.42
64:n8:128:ARG:O	64:n8:128:ARG:HG3	2.20	0.42
74:o8:17:ARG:O	74:o8:18:ALA:HB3	2.19	0.42
83:f60:VAL:HG13	83:f71:GLU:HG2	2.01	0.42
1:2:885:G:N2	16:C4:123:SER:HB2	2.33	0.42
1:2:1102:G:OP1	24:D2:76:SER:OG	2.37	0.42
3:S1:66:VAL:HG13	16:C4:33:LEU:O	2.20	0.42
7:S5:145:ASP:CG	7:S5:146:THR:H	2.28	0.42
15:C3:27:LYS:H	15:C3:27:LYS:CE	2.29	0.42
15:C3:54:LEU:O	15:C3:60:VAL:HB	2.19	0.42
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	2.02	0.42
19:C7:16:LEU:HD23	19:C7:16:LEU:HA	1.86	0.42
25:D3:90:ASP:OD2	32:E0:12:GLY:HA2	2.20	0.42
27:D5:42:LEU:H	27:D5:42:LEU:HG	1.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:103:PHE:CD1	34:SR:138:GLY:HA2	2.55	0.42
34:SR:280:GLY:O	86:SR:401:OHX:N6	2.53	0.42
36:1:39:A:H61	36:1:42:C:H3'	1.85	0.42
36:1:258:G:H2'	36:1:259:C:C6	2.55	0.42
36:1:574:U:H2'	36:1:575:G:H8	1.85	0.42
36:1:705:A:H4'	36:1:706:A:OP1	2.19	0.42
36:1:1096:U:OP2	57:N1:116:ARG:NH2	2.53	0.42
36:1:1158:A:H8	36:1:1158:A:O5'	2.02	0.42
36:1:1317:A:C4	36:1:1319:G:C8	3.07	0.42
36:1:1945:A:H2'	36:1:1946:A:C8	2.54	0.42
36:1:2694:A:C6	36:1:2695:A:C6	3.08	0.42
36:1:2877:G:H2'	36:1:2878:G:C8	2.54	0.42
36:1:3294:A:H2'	36:1:3295:A:O4'	2.20	0.42
36:1:3372:A:H2'	36:1:3373:U:C6	2.54	0.42
38:4:151:C:C4	61:N5:24:LEU:HD11	2.55	0.42
40:L3:230:THR:HA	40:L3:235:THR:HB	2.01	0.42
41:L4:128:ALA:C	41:L4:130:ALA:N	2.77	0.42
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.55	0.42
50:M4:38:ILE:CD1	56:N0:150:PHE:HE2	2.33	0.42
53:M7:40:GLU:HB3	53:M7:43:LYS:HB2	2.01	0.42
57:N1:127:GLN:HE21	57:N1:127:GLN:HB3	1.72	0.42
58:N2:94:ARG:O	58:N2:96:VAL:HG23	2.19	0.42
73:O7:67:LEU:O	73:O7:68:LYS:C	2.62	0.42
1:6:11:A:H2'	1:6:12:U:H5'	2.01	0.42
1:6:792:U:O2'	1:6:793:A:H5'	2.19	0.42
1:6:836:U:H2'	1:6:837:G:C8	2.54	0.42
1:6:1037:C:H2'	1:6:1038:U:H6	1.84	0.42
1:6:1389:C:H4'	19:c7:49:LYS:HA	2.02	0.42
86:6:2112:OHX:N5	86:6:2151:OHX:N4	2.68	0.42
2:s0:74:VAL:HG13	2:s0:98:ILE:HG13	2.02	0.42
4:s2:87:GLN:HG2	4:s2:96:THR:CB	2.50	0.42
7:s5:61:TYR:OH	30:d8:52:ASP:OD1	2.32	0.42
8:s6:38:GLY:HA3	8:s6:50:PHE:HE2	1.85	0.42
17:c5:18:ARG:HD2	17:c5:36:LEU:O	2.20	0.42
20:c8:133:VAL:HG23	20:c8:134:ARG:HG3	2.01	0.42
28:d6:60:PRO:C	28:d6:62:TYR:H	2.28	0.42
30:d8:10:ALA:HB1	30:d8:30:VAL:HB	2.02	0.42
34:sR:18:GLY:N	34:sR:308:ASN:OD1	2.53	0.42
34:sR:295:SER:HB3	34:sR:302:PHE:HE2	1.84	0.42
36:5:130:A:C6	36:5:139:G:C6	3.06	0.42
36:5:178:U:H2'	36:5:179:C:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1573:G:C6	36:5:1574:C:H1'	2.55	0.42
36:5:1609:C:H2'	36:5:1610:G:C8	2.54	0.42
36:5:1692:U:C4	36:5:1693:C:N4	2.88	0.42
36:5:2712:U:H4'	36:5:2743:A:O3'	2.20	0.42
36:5:2914:G:H5'	40:l3:9:PRO:HG3	2.02	0.42
36:5:2971:A:N6	88:5:3403:SPS:O10	2.53	0.42
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.50	0.42
36:5:3185:U:O2'	56:n0:170:THR:OG1	2.22	0.42
36:5:3251:U:H2'	36:5:3252:G:H8	1.84	0.42
36:5:3358:U:H2'	36:5:3359:A:H8	1.85	0.42
37:7:60:G:H21	42:l5:274:GLN:NE2	2.18	0.42
39:l2:179:LEU:HD12	39:l2:179:LEU:HA	1.80	0.42
40:l3:303:LYS:NZ	40:l3:359:ILE:O	2.50	0.42
43:l6:143:LYS:HB2	43:l6:143:LYS:HE3	1.76	0.42
46:l9:85:GLY:O	46:l9:186:PHE:HB3	2.20	0.42
48:m1:21:ILE:HG12	48:m1:125:MET:HB3	2.01	0.42
48:m1:122:ILE:HD13	48:m1:122:ILE:HA	1.84	0.42
49:m3:74:GLY:HA3	49:m3:98:ASP:HB2	2.01	0.42
50:m4:38:ILE:HD13	56:n0:150:PHE:CE2	2.53	0.42
51:m5:59:PHE:HZ	51:m5:148:TYR:CE1	2.37	0.42
53:m7:18:ARG:HG2	53:m7:147:GLU:HB3	2.01	0.42
54:m8:170:ARG:HA	54:m8:174:ARG:HD2	2.01	0.42
60:n4:52:THR:O	60:n4:56:ARG:HG3	2.20	0.42
70:o4:46:ASP:OD2	70:o4:80:ARG:NH1	2.39	0.42
70:o4:71:THR:HG22	70:o4:78:GLY:N	2.35	0.42
79:q3:8:VAL:HG23	79:q3:9:GLY:N	2.34	0.42
1:2:381:C:H1'	1:2:755:A:H61	1.84	0.42
1:2:577:G:H8	1:2:577:G:H3'	1.85	0.42
1:2:638:U:H1'	9:S7:112:ARG:HH12	1.85	0.42
1:2:795:U:C5	1:2:796:A:C8	3.08	0.42
1:2:992:A:OP1	86:2:2002:OHX:N2	2.52	0.42
1:2:1157:A:H2'	1:2:1160:A:N7	2.34	0.42
1:2:1347:U:OP2	22:D0:23:ARG:NH2	2.45	0.42
1:2:1489:U:O2'	1:2:1490:C:OP2	2.36	0.42
1:2:1535:U:H1'	1:2:1536:G:C2	2.55	0.42
3:S1:101:HIS:O	3:S1:217:LEU:HD13	2.19	0.42
6:S4:29:PRO:O	6:S4:31:PRO:HD3	2.20	0.42
6:S4:159:THR:OG1	6:S4:227:VAL:HG23	2.20	0.42
7:S5:140:THR:HA	7:S5:214:LYS:HD2	2.01	0.42
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	2.01	0.42
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:126:PRO:O	18:C6:128:LYS:HE3	2.19	0.42
26:D4:26:ASP:OD1	26:D4:68:LYS:HE3	2.20	0.42
34:SR:61:PHE:HB3	34:SR:92:TRP:CE3	2.55	0.42
36:1:162:G:H2'	36:1:163:C:C6	2.54	0.42
36:1:1098:A:C2	36:1:1099:A:C8	3.08	0.42
36:1:1317:A:H3'	36:1:1317:A:OP2	2.19	0.42
36:1:1805:C:H4'	70:O4:79:SER:HB2	2.01	0.42
36:1:1844:C:H2'	36:1:1845:G:H5''	2.01	0.42
36:1:2192:C:O2'	36:1:2312:A:N1	2.48	0.42
36:1:2376:G:C6	36:1:2377:G:O6	2.73	0.42
36:1:2751:G:N7	86:1:4001:OHX:N2	2.68	0.42
36:1:2869:U:H5''	36:1:2870:C:OP2	2.20	0.42
36:1:2948:C:H2'	36:1:2949:U:O4'	2.19	0.42
37:3:22:A:N1	42:L5:269:SER:HA	2.35	0.42
37:3:36:C:O2'	37:3:37:G:H5'	2.20	0.42
39:L2:86:GLN:HG2	39:L2:87:PHE:N	2.35	0.42
39:L2:140:ASN:HA	39:L2:141:PRO:HD2	1.74	0.42
40:L3:4:ARG:HD2	40:L3:7:GLU:HG3	2.01	0.42
40:L3:96:PRO:HB3	52:M6:153:VAL:HG23	2.02	0.42
40:L3:232:ARG:HD3	40:L3:268:GLY:H	1.85	0.42
42:L5:92:LEU:HD12	42:L5:92:LEU:H	1.83	0.42
42:L5:119:TYR:HE1	42:L5:133:GLU:O	2.03	0.42
48:M1:7:ASN:HA	48:M1:10:ARG:HD2	2.02	0.42
50:M4:93:LYS:HB2	50:M4:93:LYS:HE3	1.65	0.42
52:M6:23:VAL:O	52:M6:27:LEU:HG	2.19	0.42
56:N0:90:MET:HE1	56:N0:114:HIS:NE2	2.34	0.42
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	2.01	0.42
76:Q0:85:LEU:O	76:Q0:88:LYS:HB3	2.19	0.42
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.82	0.42
1:6:495:C:H3'	1:6:496:G:C5'	2.49	0.42
1:6:851:U:OP1	55:m9:172:ARG:NH2	2.38	0.42
1:6:885:G:OP1	3:s1:136:ARG:NH1	2.52	0.42
1:6:1234:A:H2'	1:6:1235:C:C5	2.55	0.42
1:6:1379:C:H5'	18:c6:10:PHE:CE2	2.55	0.42
1:6:1788:G:P	16:c4:132:ARG:HH12	2.42	0.42
3:s1:35:PRO:HD3	3:s1:98:THR:OG1	2.20	0.42
3:s1:145:LYS:HG2	3:s1:149:GLN:HB3	2.02	0.42
5:s3:158:ILE:H	5:s3:158:ILE:HD13	1.84	0.42
5:s3:201:ALA:HB3	19:c7:42:GLN:HE21	1.84	0.42
12:c0:1:MET:HG3	12:c0:2:LEU:H	1.85	0.42
12:c0:59:PHE:CZ	12:c0:62:GLN:HA	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:7:VAL:O	13:c1:9:SER:N	2.44	0.42
25:d3:79:ASN:OD1	25:d3:81:LYS:HG3	2.20	0.42
36:5:431:U:OP1	69:o3:53:TYR:OH	2.30	0.42
36:5:589:A:H1'	36:5:1337:A:H5''	2.02	0.42
36:5:914:A:H5'	36:5:915:A:N7	2.35	0.42
36:5:1120:A:C2	36:5:1139:G:C2	3.07	0.42
36:5:1137:C:H2'	36:5:1138:U:O4'	2.18	0.42
36:5:1671:C:H2'	36:5:1672:U:O4'	2.20	0.42
36:5:1724:U:H4'	36:5:1725:C:OP1	2.20	0.42
36:5:1817:G:OP1	86:5:4096:OHX:N1	2.53	0.42
36:5:1889:G:H2'	36:5:1889:G:N3	2.35	0.42
36:5:2156:C:P	39:l2:241:ARG:HH22	2.42	0.42
36:5:2220:A:H2'	36:5:2221:G:O4'	2.20	0.42
36:5:3003:G:OP2	40:l3:26:ARG:NH2	2.53	0.42
36:5:3319:U:H6	36:5:3319:U:H2'	1.71	0.42
38:8:79:A:H2'	38:8:80:A:O4'	2.20	0.42
40:l3:231:HIS:HD2	40:l3:270:ARG:NE	2.17	0.42
42:l5:259:LYS:H	42:l5:259:LYS:CE	2.31	0.42
43:l6:176:PHE:HE2	69:o3:107:ILE:HD13	1.84	0.42
44:l7:173:LEU:HD12	44:l7:173:LEU:HA	1.79	0.42
45:l8:202:GLU:O	45:l8:203:VAL:HB	2.20	0.42
45:l8:230:LYS:HB2	45:l8:230:LYS:HE3	1.64	0.42
47:m0:52:LEU:HD23	47:m0:164:LYS:O	2.20	0.42
47:m0:75:TYR:CE2	47:m0:79:VAL:HG21	2.55	0.42
53:m7:9:THR:OG1	53:m7:151:THR:OG1	2.36	0.42
53:m7:29:THR:HG22	53:m7:87:SER:HB3	2.02	0.42
55:m9:89:LEU:HA	55:m9:90:PRO:HD2	1.79	0.42
68:o2:71:HIS:HB3	68:o2:91:THR:O	2.19	0.42
69:o3:102:LEU:HD23	69:o3:102:LEU:HA	1.78	0.42
83:f:54:HIS:N	83:f:54:HIS:ND1	2.67	0.42
1:2:144:U:H5	8:S6:137:ARG:NH1	2.18	0.42
1:2:647:G:N2	1:2:687:G:H22	2.18	0.42
1:2:856:A:C4	9:S7:64:VAL:HG11	2.55	0.42
1:2:1437:U:O2'	5:S3:181:VAL:HG13	2.19	0.42
2:S0:9:LEU:HD22	2:S0:10:THR:H	1.85	0.42
3:S1:188:LEU:HD22	3:S1:212:VAL:HG21	2.01	0.42
5:S3:175:VAL:CG1	5:S3:182:LEU:HB2	2.45	0.42
8:S6:27:PHE:HB3	8:S6:102:VAL:HG11	2.02	0.42
10:S8:6:ASP:OD1	10:S8:8:ARG:HB3	2.20	0.42
10:S8:8:ARG:HH22	10:S8:19:ALA:C	2.27	0.42
16:C4:43:THR:OG1	16:C4:44:GLY:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:103:ARG:HH21	16:C4:107:ARG:HH22	1.67	0.42
22:D0:41:ILE:HD11	22:D0:107:THR:HG21	2.02	0.42
25:D3:93:LEU:O	25:D3:96:VAL:HG22	2.20	0.42
34:SR:52:GLN:NE2	34:SR:52:GLN:H	2.18	0.42
36:1:352:A:N6	36:1:365:A:H5''	2.35	0.42
36:1:364:G:OP1	41:L4:60:THR:HG23	2.19	0.42
36:1:830:A:H4'	36:1:1866:C:C5	2.54	0.42
36:1:1488:G:H5''	36:1:1838:G:O6	2.20	0.42
36:1:1618:G:H4'	38:4:129:C:H1'	2.01	0.42
36:1:1650:G:N7	86:1:4037:OHX:N2	2.67	0.42
36:1:1742:U:H2'	36:1:1743:G:H8	1.84	0.42
36:1:2336:U:H2'	36:1:2337:C:O4'	2.19	0.42
36:1:2413:A:H2'	36:1:2414:G:C8	2.55	0.42
36:1:2553:U:O4'	66:O0:50:VAL:HB	2.20	0.42
36:1:2952:G:O6	86:1:4081:OHX:N2	2.53	0.42
36:1:3087:A:OP2	86:1:4082:OHX:N5	2.53	0.42
36:1:3152:U:O2	86:1:4044:OHX:N4	2.53	0.42
36:1:3181:C:H2'	36:1:3182:G:O4'	2.20	0.42
38:4:67:U:H5''	73:O7:84:SER:O	2.19	0.42
39:L2:6:ARG:HH12	39:L2:199:THR:H	1.67	0.42
40:L3:382:THR:HA	40:L3:386:ASP:OD2	2.19	0.42
41:L4:93:MET:HE3	41:L4:93:MET:H	1.84	0.42
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.20	0.42
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.87	0.42
46:L9:90:MET:HB2	46:L9:144:ILE:HG22	2.02	0.42
52:M6:193:GLN:O	52:M6:196:ALA:N	2.53	0.42
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	2.01	0.42
55:M9:152:GLU:O	55:M9:156:ASN:ND2	2.46	0.42
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.20	0.42
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	2.01	0.42
57:N1:38:ASP:O	57:N1:64:VAL:HG23	2.20	0.42
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.20	0.42
64:N8:115:LYS:HB3	64:N8:116:GLY:H	1.70	0.42
67:O1:22:GLY:H	67:O1:28:ARG:NH2	2.18	0.42
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	1.94	0.42
74:O8:29:LYS:O	74:O8:30:LYS:HG2	2.20	0.42
79:Q3:89:MET:HE2	79:Q3:89:MET:HB3	1.86	0.42
1:6:495:C:H3'	1:6:496:G:H5'	2.02	0.42
1:6:887:A:H1'	16:c4:122:PRO:HB3	2.02	0.42
1:6:1102:G:OP1	24:d2:76:SER:OG	2.34	0.42
1:6:1171:A:N6	1:6:1467:C:H42	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:167:LYS:HB3	2:s0:168:HIS:CD2	2.55	0.42
5:s3:14:ASP:O	5:s3:17:PHE:HB3	2.19	0.42
8:s6:14:LYS:HD3	8:s6:16:PHE:CZ	2.54	0.42
12:c0:15:LEU:HA	12:c0:15:LEU:HD23	1.82	0.42
15:c3:149:LEU:HD13	15:c3:149:LEU:HA	1.77	0.42
25:d3:92:CYS:HA	25:d3:95:PHE:CD2	2.55	0.42
27:d5:38:HIS:ND1	27:d5:70:LYS:HG2	2.35	0.42
28:d6:87:ARG:HH21	28:d6:94:ASN:HB3	1.85	0.42
29:d7:23:THR:O	29:d7:25:VAL:N	2.53	0.42
34:sR:183:LEU:HD12	34:sR:186:PHE:HD1	1.85	0.42
36:5:70:A:N1	36:5:313:A:O2'	2.50	0.42
36:5:495:G:H1	36:5:618:C:N4	2.18	0.42
36:5:989:A:H2'	36:5:990:U:O4'	2.19	0.42
36:5:1596:C:H2'	36:5:1597:C:C6	2.55	0.42
36:5:2584:G:N2	45:l8:241:LYS:HD2	2.35	0.42
36:5:2725:U:O4	86:5:3875:OHX:N1	2.53	0.42
36:5:2897:A:H2'	36:5:2899:C:C5'	2.50	0.42
36:5:3261:C:P	50:m4:126:GLN:HE21	2.43	0.42
36:5:3272:C:O2	43:l6:80:ASN:HB2	2.20	0.42
41:l4:22:LEU:HA	41:l4:23:PRO:HD3	1.51	0.42
41:l4:229:ASN:OD1	41:l4:230:VAL:N	2.52	0.42
42:l5:85:ARG:HD2	42:l5:254:LYS:HE3	2.02	0.42
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.34	0.42
52:m6:27:LEU:HD13	52:m6:98:ALA:O	2.19	0.42
52:m6:65:ASN:C	52:m6:67:THR:H	2.28	0.42
53:m7:19:GLY:HA3	53:m7:22:LEU:HD11	2.01	0.42
57:n1:124:VAL:HG12	57:n1:125:ALA:H	1.85	0.42
59:n3:104:ASN:HD21	59:n3:106:LYS:HB2	1.83	0.42
63:n7:81:LEU:HD12	70:o4:93:PHE:CD2	2.54	0.42
64:n8:105:LEU:C	64:n8:107:ALA:H	2.28	0.42
68:o2:104:ASN:O	68:o2:108:ILE:HG13	2.19	0.42
78:q2:17:CYS:SG	78:q2:77:CYS:HB3	2.60	0.42
83:f:59:LEU:O	83:f:71:GLU:HA	2.20	0.42
1:2:78:A:H1'	8:S6:175:ILE:HG12	2.02	0.41
1:2:463:U:C2	1:2:464:A:C8	3.08	0.41
1:2:869:A:H5''	15:C3:90:TYR:CD2	2.55	0.41
1:2:1066:C:H4'	3:S1:149:GLN:HE21	1.83	0.41
1:2:1159:C:O2	86:2:2084:OHX:N6	2.52	0.41
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.85	0.41
2:S0:185:ARG:HA	23:D1:44:ARG:HA	2.02	0.41
3:S1:23:PRO:O	3:S1:27:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:212:ASP:OD1	6:S4:244:ILE:HG23	2.20	0.41
8:S6:68:LEU:O	8:S6:69:LEU:HB2	2.20	0.41
10:S8:92:ARG:HG3	36:1:3345:G:OP2	2.20	0.41
12:C0:29:GLN:OE1	12:C0:39:ASN:ND2	2.53	0.41
14:C2:66:VAL:HG11	14:C2:71:ILE:HG21	2.02	0.41
15:C3:148:ALA:O	15:C3:151:ASN:N	2.49	0.41
19:C7:71:PHE:C	19:C7:73:LEU:H	2.27	0.41
36:1:86:G:C6	49:M3:13:HIS:CD2	3.08	0.41
36:1:511:G:H1	36:1:580:C:H42	1.68	0.41
36:1:608:A:H5''	36:1:609:G:OP2	2.19	0.41
36:1:801:A:H4'	36:1:802:C:O5'	2.19	0.41
36:1:929:A:H2'	36:1:930:U:C6	2.55	0.41
36:1:993:G:N3	36:1:2637:A:H2'	2.35	0.41
36:1:1100:U:OP2	44:L7:196:LYS:HE3	2.20	0.41
36:1:1128:U:C2	36:1:2828:G:O4'	2.73	0.41
36:1:2113:A:N7	36:1:2114:C:C4	2.88	0.41
36:1:2882:U:H2'	36:1:2883:U:O4'	2.19	0.41
36:1:3266:G:H2'	36:1:3267:A:C8	2.55	0.41
86:1:3889:OHX:N6	86:3:216:OHX:N3	2.68	0.41
38:4:79:A:O5'	38:4:79:A:H8	2.02	0.41
39:L2:66:PRO:HB2	39:L2:67:TYR:CD2	2.55	0.41
40:L3:227:GLU:O	40:L3:267:ALA:HB1	2.19	0.41
44:L7:96:PRO:HA	44:L7:97:PRO:HD3	1.91	0.41
50:M4:21:VAL:CG1	50:M4:65:LEU:HD23	2.50	0.41
55:M9:38:ARG:O	55:M9:42:ARG:HB2	2.20	0.41
56:N0:141:LYS:HB2	56:N0:141:LYS:HE3	1.88	0.41
58:N2:36:TYR:O	58:N2:40:HIS:HB2	2.19	0.41
71:O5:31:LEU:CD1	71:O5:47:VAL:HG11	2.50	0.41
73:O7:72:ARG:O	73:O7:75:LYS:N	2.52	0.41
1:6:142:G:C2	1:6:266:A:C5	3.08	0.41
1:6:485:A:C6	1:6:486:G:H1'	2.55	0.41
1:6:640:U:H2'	1:6:641:G:O4'	2.20	0.41
1:6:901:G:H22	16:c4:54:GLU:CD	2.26	0.41
1:6:940:A:H2'	1:6:941:A:O4'	2.20	0.41
1:6:990:C:H2'	1:6:991:G:O4'	2.20	0.41
1:6:991:G:O2'	1:6:992:A:H5''	2.20	0.41
1:6:1091:A:H4'	1:6:1092:A:O5'	2.19	0.41
1:6:1196:A:H4'	1:6:1197:C:O5'	2.20	0.41
1:6:1251:U:H4'	33:e1:134:ASN:H	1.85	0.41
1:6:1544:U:H4'	20:c8:132:ARG:NH2	2.36	0.41
4:s2:87:GLN:HG2	4:s2:96:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:238:SER:HA	4:s2:239:PRO:HD2	1.81	0.41
6:s4:103:TYR:CD1	6:s4:189:LEU:HD11	2.55	0.41
8:s6:189:HIS:ND1	8:s6:189:HIS:O	2.53	0.41
11:s9:116:LEU:O	11:s9:118:LEU:HD12	2.20	0.41
24:d2:38:LEU:HD23	24:d2:41:MET:HE3	2.02	0.41
25:d3:30:LYS:HE2	25:d3:34:LEU:HD11	2.02	0.41
27:d5:42:LEU:C	27:d5:44:GLN:H	2.27	0.41
27:d5:84:GLU:HA	27:d5:87:GLY:HA2	2.02	0.41
30:d8:12:VAL:HA	30:d8:30:VAL:HG12	2.02	0.41
35:sM:51:ARG:NH2	35:sM:52:PRO:HD2	2.35	0.41
36:5:48:A:O4'	36:5:50:U:C6	2.72	0.41
36:5:381:U:H2'	36:5:382:U:C6	2.54	0.41
36:5:411:U:H2'	36:5:412:G:H8	1.85	0.41
36:5:608:A:H5''	36:5:609:G:OP2	2.19	0.41
36:5:658:G:N2	41:l4:93:MET:HB2	2.35	0.41
36:5:699:A:H2'	36:5:700:C:O4'	2.20	0.41
36:5:764:U:H2'	36:5:765:C:H2'	2.02	0.41
36:5:1171:G:P	44:l7:218:ARG:NH1	2.93	0.41
36:5:1464:G:O2'	86:5:3830:OHX:N5	2.53	0.41
40:l3:188:ILE:O	40:l3:192:VAL:HG12	2.20	0.41
43:l6:69:PHE:HB2	43:l6:138:GLN:HE21	1.84	0.41
44:l7:145:ARG:HA	44:l7:185:ILE:HD13	2.02	0.41
44:l7:153:PHE:N	44:l7:153:PHE:CD2	2.88	0.41
45:l8:90:THR:HA	45:l8:214:LEU:HD21	2.02	0.41
52:m6:108:ILE:HG21	52:m6:108:ILE:HD13	1.72	0.41
54:m8:134:GLY:O	54:m8:137:THR:OG1	2.35	0.41
56:n0:28:ARG:HH11	56:n0:99:ARG:NE	2.17	0.41
62:n6:50:ILE:HD11	62:n6:70:ILE:HG13	2.01	0.41
62:n6:109:LEU:HD23	62:n6:109:LEU:HA	1.91	0.41
63:n7:72:ILE:HD13	63:n7:72:ILE:H	1.85	0.41
64:n8:46:ASP:O	64:n8:47:LYS:HB3	2.20	0.41
68:o2:12:LYS:HD3	68:o2:57:TYR:O	2.19	0.41
70:o4:61:GLN:C	70:o4:63:ALA:N	2.78	0.41
78:q2:40:LYS:HG3	78:q2:44:ASP:OD2	2.20	0.41
1:2:5:U:H2'	1:2:6:G:C8	2.56	0.41
1:2:1220:C:OP1	12:C0:48:SER:OG	2.37	0.41
1:2:1349:G:H1	1:2:1376:C:N4	2.17	0.41
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.41	0.41
1:2:1537:C:H4'	1:2:1538:U:H5	1.86	0.41
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	2.02	0.41
6:S4:86:PHE:CZ	6:S4:87:MET:HE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:95:THR:HG22	26:D4:16:PRO:HB2	2.01	0.41
6:S4:179:LYS:N	6:S4:194:THR:O	2.52	0.41
8:S6:2:LYS:HE3	8:S6:2:LYS:HB2	1.75	0.41
12:C0:46:LEU:HD13	12:C0:46:LEU:HA	1.80	0.41
12:C0:52:LYS:HG3	12:C0:54:TYR:CE2	2.55	0.41
13:C1:16:GLN:HE22	13:C1:34:TRP:HE3	1.68	0.41
16:C4:13:VAL:HG22	16:C4:76:ILE:HG13	2.01	0.41
18:C6:123:ARG:HG3	18:C6:124:PRO:HD2	2.02	0.41
21:C9:30:VAL:HA	21:C9:31:PRO:HD2	1.94	0.41
22:D0:61:LYS:HG2	22:D0:86:ILE:O	2.20	0.41
22:D0:95:ALA:HB1	22:D0:96:PRO:HD2	2.01	0.41
36:1:161:G:H5'	36:1:162:G:OP2	2.21	0.41
36:1:551:A:C2	36:1:552:G:C4	3.08	0.41
36:1:612:U:OP1	43:L6:21:THR:HB	2.20	0.41
36:1:763:G:H2'	36:1:764:U:O4'	2.19	0.41
36:1:776:U:C5	36:1:2719:U:O2	2.74	0.41
36:1:795:G:O6	86:1:3790:OHX:N3	2.52	0.41
36:1:1230:G:H2'	36:1:1231:A:H8	1.85	0.41
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.52	0.41
36:1:1478:C:H2'	36:1:1479:U:H6	1.85	0.41
36:1:1750:A:H4'	74:O8:26:LYS:NZ	2.34	0.41
36:1:1814:A:OP1	86:1:3984:OHX:N2	2.53	0.41
36:1:2220:A:N6	36:1:2221:G:C6	2.88	0.41
36:1:2358:A:H2'	36:1:2359:C:O4'	2.20	0.41
36:1:2737:C:OP1	57:N1:70:SER:OG	2.37	0.41
36:1:2897:A:H2'	36:1:2899:C:H5''	2.01	0.41
37:3:67:G:H2'	37:3:68:C:O4'	2.20	0.41
38:4:152:G:H2'	38:4:153:U:O4'	2.21	0.41
40:L3:116:ARG:NH1	40:L3:122:TRP:CD1	2.88	0.41
42:L5:107:ARG:HH12	42:L5:120:LYS:HA	1.85	0.41
42:L5:111:GLN:C	42:L5:113:LEU:H	2.28	0.41
43:L6:52:VAL:HG11	43:L6:65:ILE:HG13	2.03	0.41
44:L7:109:THR:HB	54:M8:4:ASP:HB3	2.01	0.41
45:L8:45:ASN:C	45:L8:47:SER:H	2.28	0.41
45:L8:186:LEU:HD23	45:L8:186:LEU:HA	1.96	0.41
47:M0:179:PRO:HA	47:M0:182:LEU:HD12	2.02	0.41
48:M1:108:GLU:HA	48:M1:122:ILE:CG2	2.50	0.41
51:M5:106:VAL:O	51:M5:109:ARG:N	2.52	0.41
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.53	0.41
57:N1:42:ILE:HD11	57:N1:76:ILE:HD11	2.01	0.41
61:N5:61:LYS:HE3	61:N5:61:LYS:HB2	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:59:VAL:HG12	62:N6:103:LYS:O	2.20	0.41
70:O4:81:CYS:SG	70:O4:84:CYS:SG	3.17	0.41
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.59	0.41
77:Q1:2:ARG:HG3	77:Q1:3:ALA:N	2.35	0.41
1:6:351:C:O4'	25:d3:13:ARG:NH1	2.53	0.41
1:6:400:A:H5''	10:s8:24:LYS:O	2.20	0.41
1:6:408:C:O2	1:6:1731:A:O2'	2.23	0.41
1:6:512:A:OP1	11:s9:170:GLY:HA3	2.20	0.41
1:6:886:U:O2'	16:c4:121:VAL:O	2.31	0.41
1:6:926:A:H2	16:c4:125:SER:HB2	1.84	0.41
1:6:1175:U:H2'	1:6:1176:G:C8	2.55	0.41
2:s0:151:SER:HA	2:s0:152:PRO:HD2	1.77	0.41
3:s1:55:LYS:HD3	3:s1:55:LYS:HA	1.85	0.41
3:s1:194:ASN:OD1	3:s1:194:ASN:N	2.53	0.41
4:s2:41:LEU:HD11	4:s2:56:ILE:HD13	2.02	0.41
7:s5:58:LEU:HD12	7:s5:138:THR:HA	2.02	0.41
15:c3:78:ASN:HB3	15:c3:80:LEU:CD1	2.50	0.41
16:c4:90:ARG:HD3	16:c4:90:ARG:HA	1.87	0.41
21:c9:23:GLN:HG3	21:c9:55:TYR:CE2	2.54	0.41
27:d5:60:VAL:HG11	27:d5:89:ILE:HG21	2.01	0.41
33:e1:113:LYS:HB3	33:e1:113:LYS:HE3	1.86	0.41
34:sR:183:LEU:HD12	34:sR:186:PHE:CD1	2.54	0.41
36:5:156:G:P	72:o6:27:SER:HB3	2.60	0.41
36:5:438:A:H4'	36:5:439:C:OP2	2.21	0.41
36:5:664:U:H2'	36:5:665:A:C8	2.56	0.41
36:5:1316:C:H5''	36:5:1317:A:C2	2.55	0.41
36:5:1751:G:H5''	74:o8:26:LYS:NZ	2.35	0.41
36:5:1794:G:O2'	36:5:1795:U:H5'	2.20	0.41
36:5:1879:A:OP1	36:5:1879:A:H4'	2.19	0.41
36:5:3112:G:C2	36:5:3121:U:C5	3.08	0.41
36:5:3215:A:C5'	50:m4:121:MET:HE1	2.50	0.41
36:5:3225:C:H2'	36:5:3226:A:O4'	2.20	0.41
39:l2:230:VAL:O	39:l2:233:GLN:HB2	2.20	0.41
41:l4:141:ARG:HD3	41:l4:141:ARG:HA	1.80	0.41
41:l4:219:LEU:HD22	41:l4:222:VAL:HG11	2.02	0.41
43:l6:39:VAL:HB	43:l6:87:THR:OG1	2.20	0.41
53:m7:111:LYS:HA	53:m7:153:LYS:HE3	2.02	0.41
56:n0:111:ALA:HA	56:n0:116:ALA:H	1.84	0.41
59:n3:10:LYS:NZ	59:n3:54:LEU:O	2.40	0.41
60:n4:27:LYS:HD3	60:n4:29:PHE:CZ	2.55	0.41
63:n7:40:HIS:ND1	63:n7:40:HIS:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:58:LYS:NZ	65:n9:58:LYS:HA	2.36	0.41
83:f:101:SER:CB	83:f:102:LEU:HA	2.49	0.41
1:2:353:A:OP2	86:2:1995:OHX:N4	2.52	0.41
1:2:361:C:H5'	1:2:361:C:H6	1.85	0.41
1:2:591:A:H2'	1:2:592:A:H8	1.85	0.41
1:2:708:C:O2'	1:2:709:C:H5'	2.20	0.41
1:2:1105:C:N4	25:D3:4:GLY:HA2	2.35	0.41
1:2:1202:A:H3'	1:2:1202:A:N3	2.36	0.41
1:2:1433:G:C5	31:D9:41:GLN:HB3	2.55	0.41
1:2:1488:G:H5'	1:2:1489:U:OP1	2.19	0.41
1:2:1580:C:H2'	1:2:1581:C:C6	2.54	0.41
1:2:1599:C:O2	86:2:2080:OHX:N3	2.53	0.41
4:S2:162:CYS:H	4:S2:213:ALA:HB2	1.85	0.41
6:S4:47:PHE:CE2	6:S4:90:ILE:HG21	2.55	0.41
8:S6:63:MET:HE1	8:S6:106:LEU:HD13	2.02	0.41
13:C1:98:ASN:O	13:C1:98:ASN:ND2	2.50	0.41
17:C5:79:HIS:O	17:C5:81:ARG:N	2.54	0.41
19:C7:41:ILE:HD13	19:C7:50:ILE:HD12	2.01	0.41
30:D8:41:VAL:O	30:D8:42:ARG:HD2	2.20	0.41
34:SR:110:VAL:HA	34:SR:126:SER:HB2	2.02	0.41
36:1:430:U:H4'	69:O3:67:MET:HE1	2.02	0.41
36:1:1014:U:H2'	36:1:1015:U:H5''	2.01	0.41
36:1:1344:G:H1	36:1:1360:C:H42	1.69	0.41
36:1:1758:G:N2	36:1:1767:C:N3	2.49	0.41
36:1:2104:A:H2'	36:1:2105:G:H8	1.85	0.41
36:1:2376:G:C6	36:1:2377:G:C6	3.08	0.41
36:1:2550:U:C4	39:L2:40:TYR:CE1	3.07	0.41
36:1:2660:G:O2'	36:1:2744:U:H1'	2.21	0.41
36:1:2794:G:N7	86:1:3831:OHX:N2	2.68	0.41
40:L3:37:ARG:C	40:L3:186:GLY:HA2	2.46	0.41
45:L8:132:VAL:HG23	45:L8:199:ALA:O	2.20	0.41
46:L9:12:VAL:HG13	46:L9:13:PRO:HD2	2.02	0.41
46:L9:21:LYS:HB3	46:L9:21:LYS:HE2	1.80	0.41
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	2.02	0.41
49:M3:32:LYS:O	49:M3:36:ARG:HG3	2.20	0.41
55:M9:115:ILE:HD12	55:M9:115:ILE:HA	1.78	0.41
57:N1:22:HIS:HB3	57:N1:23:GLY:H	1.53	0.41
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.83	0.41
1:6:38:C:H42	1:6:39:A:N6	2.18	0.41
1:6:447:U:OP1	6:s4:49:ARG:NH1	2.53	0.41
1:6:463:U:H2'	1:6:464:A:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:939:A:C6	1:6:940:A:C6	3.09	0.41
1:6:1425:A:O2'	1:6:1426:C:H5'	2.20	0.41
1:6:1427:A:O2'	1:6:1428:G:OP1	2.29	0.41
1:6:1566:U:H5''	20:c8:39:GLY:H	1.85	0.41
4:s2:188:LEU:HD13	4:s2:196:VAL:HG11	2.03	0.41
8:s6:68:LEU:HD13	8:s6:68:LEU:HA	1.89	0.41
8:s6:131:LYS:HB2	60:n4:82:ILE:HG12	2.03	0.41
11:s9:71:PHE:CD1	11:s9:71:PHE:C	2.98	0.41
12:c0:70:GLU:C	12:c0:72:GLY:H	2.28	0.41
13:c1:78:THR:HA	13:c1:84:ILE:HG22	2.02	0.41
18:c6:93:HIS:HA	18:c6:97:VAL:HB	2.01	0.41
21:c9:66:TYR:HE2	21:c9:129:GLN:HG3	1.85	0.41
34:sR:286:GLU:HA	34:sR:287:PRO:HD3	1.87	0.41
35:sM:49:LYS:HG3	35:sM:50:ASN:OD1	2.20	0.41
36:5:363:G:H2'	36:5:364:G:O4'	2.20	0.41
36:5:754:G:C5	36:5:755:A:N7	2.88	0.41
36:5:950:G:C2	36:5:1370:G:C6	3.08	0.41
36:5:1252:A:H2'	36:5:1253:U:H5'	2.01	0.41
36:5:1412:G:OP1	68:o2:105:ARG:NH2	2.53	0.41
36:5:1659:U:H2'	36:5:1660:C:C6	2.55	0.41
36:5:1744:G:C6	36:5:1745:C:C4	3.08	0.41
36:5:2177:G:O6	86:5:3891:OHX:N1	2.53	0.41
36:5:2794:G:O2'	36:5:2795:U:OP2	2.35	0.41
36:5:2971:A:N6	88:5:3403:SPS:C10	2.83	0.41
36:5:3000:A:H2'	36:5:3001:C:C6	2.55	0.41
36:5:3054:U:OP2	86:5:3823:OHX:N6	2.52	0.41
86:5:3977:OHX:N4	86:5:3986:OHX:N2	2.68	0.41
38:8:104:A:H3'	38:8:105:A:H5''	2.03	0.41
38:8:155:A:H2'	38:8:156:U:O4'	2.19	0.41
39:l2:70:ARG:HD2	39:l2:72:ARG:HE	1.86	0.41
41:l4:84:ARG:HA	41:l4:87:GLN:OE1	2.19	0.41
43:l6:46:ARG:HG2	43:l6:47:PHE:CZ	2.55	0.41
47:m0:10:ARG:HG2	47:m0:11:TYR:CE1	2.55	0.41
80:m2:118:GLN:O	80:m2:120:ASP:N	2.53	0.41
51:m5:178:HIS:HD2	51:m5:179:LYS:N	2.18	0.41
55:m9:184:LEU:O	55:m9:185:LEU:HD23	2.19	0.41
59:n3:87:ARG:HG3	59:n3:93:LEU:HD21	2.02	0.41
61:n5:43:ALA:HA	61:n5:44:PRO:HD3	1.84	0.41
67:o1:71:LEU:HD23	67:o1:71:LEU:HA	1.70	0.41
70:o4:42:PRO:HD3	70:o4:56:THR:HG22	2.01	0.41
71:o5:119:LYS:O	71:o5:119:LYS:HE3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:o8:44:LYS:HG2	74:o8:53:THR:HB	2.01	0.41
81:p0:77:LEU:HA	81:p0:80:VAL:HG12	2.02	0.41
1:2:82:U:H2'	1:2:83:G:O4'	2.21	0.41
1:2:138:A:H61	1:2:266:A:H61	1.67	0.41
1:2:516:G:OP2	86:2:2038:OHX:N6	2.54	0.41
1:2:1113:A:H5''	77:Q1:6:ARG:NH2	2.35	0.41
1:2:1151:A:H4'	1:2:1766:A:C5	2.55	0.41
1:2:1335:U:H1'	31:D9:56:ARG:NH1	2.35	0.41
1:2:1476:C:H2'	1:2:1477:G:C8	2.56	0.41
1:2:1616:G:O2'	30:D8:23:GLY:O	2.27	0.41
2:S0:41:ARG:NE	2:S0:45:VAL:HB	2.33	0.41
2:S0:66:ALA:HB1	23:D1:50:TYR:CE1	2.56	0.41
3:S1:39:GLU:HG3	3:S1:40:ASN:N	2.36	0.41
4:S2:35:TRP:HE3	4:S2:46:LYS:HE2	1.85	0.41
5:S3:143:ARG:NH2	5:S3:143:ARG:HB3	2.36	0.41
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.50	0.41
9:S7:63:PRO:C	9:S7:65:PRO:HD2	2.45	0.41
10:S8:42:ARG:HH21	10:S8:59:ARG:NH2	2.17	0.41
11:S9:30:LEU:HD22	11:S9:105:LEU:HD23	2.02	0.41
14:C2:63:VAL:HG23	14:C2:66:VAL:HG22	2.01	0.41
15:C3:149:LEU:O	86:C3:201:OHX:N5	2.53	0.41
16:C4:106:ALA:HB1	28:D6:56:ALA:HB3	2.01	0.41
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.52	0.41
34:SR:170:ILE:HD12	34:SR:211:ILE:HG23	2.02	0.41
36:1:31:C:H5'	51:M5:96:ARG:HD2	2.00	0.41
36:1:527:A:H61	36:1:565:U:H3	1.68	0.41
36:1:717:C:C5	36:1:718:G:C6	3.08	0.41
36:1:1725:C:H2'	36:1:1726:C:C6	2.56	0.41
36:1:1854:C:O5'	36:1:1854:C:H6	2.03	0.41
36:1:2439:A:H2'	36:1:2440:G:O4'	2.19	0.41
36:1:2576:G:C6	36:1:2577:C:C4	3.09	0.41
36:1:2623:G:H1	36:1:2644:C:H42	1.67	0.41
36:1:2747:A:H5'	42:L5:175:HIS:HA	2.02	0.41
36:1:2984:C:C2	36:1:2985:C:C5	3.08	0.41
36:1:3205:G:OP2	36:1:3206:C:N4	2.47	0.41
38:4:149:A:H2'	38:4:150:G:C8	2.56	0.41
39:L2:66:PRO:HB2	39:L2:67:TYR:CE2	2.56	0.41
40:L3:262:TRP:H	40:L3:262:TRP:CD1	2.38	0.41
41:L4:188:ARG:HG3	41:L4:190:GLY:H	1.85	0.41
44:L7:95:ILE:HA	44:L7:96:PRO:HD3	1.95	0.41
44:L7:164:SER:O	44:L7:165:ASP:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:153:ILE:HG22	45:L8:154:ALA:O	2.20	0.41
48:M1:95:ASN:O	48:M1:102:PHE:HA	2.20	0.41
49:M3:18:TRP:C	49:M3:20:GLU:N	2.78	0.41
50:M4:23:ILE:HG22	50:M4:29:ALA:HA	2.02	0.41
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.20	0.41
50:M4:108:ARG:NH2	52:M6:197:LEU:HA	2.34	0.41
51:M5:74:PRO:HB2	51:M5:75:VAL:H	1.70	0.41
52:M6:27:LEU:C	52:M6:29:ASN:H	2.29	0.41
56:N0:40:ARG:HD2	56:N0:40:ARG:HA	1.71	0.41
57:N1:106:LEU:HD13	57:N1:106:LEU:HA	1.75	0.41
63:N7:27:LYS:HA	63:N7:27:LYS:HD2	1.68	0.41
63:N7:29:HIS:O	63:N7:31:GLU:N	2.53	0.41
66:O0:43:ILE:O	66:O0:89:VAL:HA	2.21	0.41
67:O1:12:TYR:HD2	67:O1:75:ILE:HG13	1.85	0.41
68:O2:19:ARG:O	68:O2:22:SER:HB3	2.21	0.41
69:O3:102:LEU:HA	69:O3:102:LEU:HD23	1.74	0.41
70:O4:22:VAL:HG12	70:O4:30:LEU:HD22	2.02	0.41
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB3	2.60	0.41
1:6:489:C:O2'	1:6:490:C:O5'	2.39	0.41
1:6:546:U:H2'	1:6:547:U:C6	2.55	0.41
1:6:966:A:H5''	15:c3:4:MET:HE3	2.02	0.41
1:6:1147:A:H2'	1:6:1148:C:O4'	2.20	0.41
1:6:1241:G:OP1	17:c5:77:ARG:NH1	2.53	0.41
2:s0:172:LEU:HD23	2:s0:172:LEU:HA	1.85	0.41
4:s2:113:LEU:HB2	4:s2:215:PHE:CD1	2.56	0.41
4:s2:218:ILE:O	4:s2:221:THR:OG1	2.38	0.41
6:s4:57:ASN:OD1	6:s4:57:ASN:N	2.52	0.41
7:s5:205:SER:OG	7:s5:207:THR:OG1	2.20	0.41
19:c7:110:VAL:HA	19:c7:113:LEU:HB2	2.02	0.41
20:c8:35:ILE:HB	20:c8:38:VAL:CG2	2.51	0.41
20:c8:84:TRP:HA	20:c8:89:GLN:HE22	1.85	0.41
24:d2:41:MET:HG2	24:d2:129:VAL:HG11	2.02	0.41
31:d9:40:ARG:O	31:d9:43:PHE:HB3	2.21	0.41
32:e0:20:LYS:HA	32:e0:20:LYS:HD2	1.86	0.41
36:5:168:U:H3	36:5:254:A:H61	1.69	0.41
36:5:591:G:N2	36:5:612:U:OP1	2.48	0.41
36:5:1276:U:H2'	36:5:1277:C:O4'	2.20	0.41
36:5:1489:A:OP1	70:o4:10:ARG:HD3	2.20	0.41
36:5:1795:U:C4	79:q3:51:ALA:HA	2.55	0.41
36:5:2148:U:O2'	39:l2:182:ALA:HB2	2.21	0.41
36:5:2651:G:H4'	36:5:2652:U:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:5:3978:OHX:N6	86:5:4052:OHX:N2	2.67	0.41
37:7:22:A:H1'	42:15:272:TYR:CE1	2.55	0.41
39:12:134:VAL:CG2	39:12:148:VAL:HB	2.50	0.41
40:13:361:THR:HG23	40:13:371:GLN:O	2.20	0.41
42:15:286:VAL:HG13	47:m0:206:LEU:HD22	2.01	0.41
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.55	0.41
48:m1:94:ARG:O	48:m1:96:PHE:HD2	2.03	0.41
52:m6:38:ALA:O	52:m6:41:LEU:HB2	2.21	0.41
58:n2:84:LEU:HD22	58:n2:89:LEU:HB2	2.02	0.41
70:o4:8:ARG:HB2	70:o4:34:HIS:NE2	2.35	0.41
70:o4:11:ASN:HA	70:o4:12:PRO:HD3	1.84	0.41
70:o4:57:LEU:HG	70:o4:62:TYR:HE1	1.85	0.41
75:o9:5:LYS:H	75:o9:5:LYS:HG2	1.51	0.41
1:2:73:U:O2'	1:2:74:U:C2	2.73	0.41
1:2:161:U:O3'	8:S6:83:CYS:HA	2.20	0.41
1:2:337:G:O3'	10:S8:10:LYS:HE2	2.20	0.41
1:2:711:U:H4'	1:2:712:G:OP1	2.20	0.41
1:2:819:G:C6	1:2:853:G:C2	3.08	0.41
1:2:1043:A:H61	1:2:1075:C:H42	1.67	0.41
1:2:1592:A:H61	1:2:1604:U:H3	1.66	0.41
2:S0:123:VAL:HG12	2:S0:125:ASP:H	1.85	0.41
3:S1:50:LYS:O	3:S1:52:THR:N	2.52	0.41
3:S1:77:GLU:C	3:S1:79:HIS:H	2.29	0.41
5:S3:52:ALA:O	5:S3:91:VAL:HB	2.21	0.41
6:S4:131:LEU:HD22	6:S4:131:LEU:HA	1.78	0.41
6:S4:154:ILE:O	6:S4:155:LYS:HE2	2.20	0.41
7:S5:183:ALA:O	7:S5:186:ASN:HB3	2.21	0.41
8:S6:56:ASN:HB2	8:S6:108:VAL:HG12	2.03	0.41
11:S9:108:ARG:HA	11:S9:147:MET:HA	2.03	0.41
14:C2:80:ASN:OD1	14:C2:80:ASN:N	2.53	0.41
19:C7:87:GLU:O	19:C7:88:VAL:HG12	2.21	0.41
20:C8:41:ARG:HD2	21:C9:46:PRO:HD3	2.03	0.41
29:D7:73:LEU:HD12	29:D7:73:LEU:H	1.85	0.41
31:D9:5:ASN:OD1	31:D9:7:TRP:NE1	2.51	0.41
34:SR:266:ASP:HA	34:SR:267:PRO:HA	1.90	0.41
36:1:122:A:C2	36:1:145:G:N3	2.88	0.41
36:1:215:G:OP1	62:N6:12:ARG:HD2	2.20	0.41
36:1:303:G:C2	36:1:313:A:C2	3.09	0.41
36:1:864:G:O6	36:1:893:C:H3'	2.20	0.41
36:1:980:A:C8	36:1:980:A:OP2	2.74	0.41
36:1:2315:G:C2	36:1:2316:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2538:U:H4'	36:1:2539:C:OP2	2.20	0.41
36:1:2795:U:OP2	78:Q2:63:LYS:NZ	2.53	0.41
36:1:3106:A:H2'	36:1:3107:U:O4'	2.20	0.41
36:1:3344:A:H2	36:1:3361:G:N2	2.18	0.41
37:3:64:A:H3'	47:M0:204:GLY:O	2.20	0.41
39:L2:112:ILE:HD12	79:Q3:79:VAL:HG22	2.02	0.41
40:L3:46:PHE:CD2	40:L3:81:THR:HG22	2.55	0.41
47:M0:99:ILE:HG23	47:M0:99:ILE:O	2.19	0.41
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.56	0.41
49:M3:132:ALA:HA	49:M3:133:PRO:HD2	1.96	0.41
55:M9:40:ALA:O	55:M9:44:LEU:HD22	2.20	0.41
1:6:277:U:O2'	1:6:278:U:OP1	2.34	0.41
1:6:358:U:O2'	1:6:360:A:OP1	2.37	0.41
1:6:542:A:N1	32:e0:28:LYS:NZ	2.53	0.41
1:6:601:A:H2'	1:6:602:U:C6	2.55	0.41
1:6:607:G:H5'	1:6:613:G:N2	2.35	0.41
1:6:622:A:C2	1:6:1105:C:C2	3.09	0.41
1:6:765:G:H1	11:s9:146:PHE:HZ	1.68	0.41
1:6:1141:G:H2'	1:6:1142:A:C8	2.56	0.41
2:s0:131:GLN:O	2:s0:135:GLU:HB2	2.20	0.41
3:s1:59:ASP:C	3:s1:61:LEU:N	2.79	0.41
5:s3:179:GLN:HB3	5:s3:180:GLY:H	1.59	0.41
6:s4:192:ILE:HD12	6:s4:238:LEU:HD13	2.01	0.41
7:s5:143:ARG:O	7:s5:162:VAL:HG13	2.20	0.41
14:c2:73:LYS:HD2	33:e1:108:VAL:HG22	2.02	0.41
20:c8:41:ARG:NH2	21:c9:36:ILE:O	2.53	0.41
20:c8:56:LYS:HD3	20:c8:60:GLU:HB2	2.03	0.41
20:c8:125:ILE:HD11	35:sM:57:ASN:HB3	2.02	0.41
30:d8:32:PHE:HB2	30:d8:38:ARG:HB2	2.02	0.41
36:5:501:A:H2'	36:5:502:U:O4'	2.20	0.41
36:5:792:G:O6	86:5:4102:OHX:N6	2.53	0.41
36:5:852:U:O2'	36:5:853:G:H5'	2.20	0.41
36:5:1294:A:O2'	36:5:1295:G:H5''	2.20	0.41
36:5:1602:A:C5	36:5:1603:A:C6	3.08	0.41
36:5:3041:U:H2'	36:5:3042:U:H6	1.83	0.41
36:5:3121:U:H1'	36:5:3122:A:H5''	2.02	0.41
37:7:23:A:C6	37:7:24:A:C6	3.08	0.41
38:8:141:C:OP1	51:m5:109:ARG:NH1	2.54	0.41
41:l4:144:LYS:CG	41:l4:145:ILE:H	2.24	0.41
44:l7:134:VAL:O	44:l7:229:PHE:HA	2.20	0.41
44:l7:173:LEU:O	44:l7:178:ILE:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:68:ARG:O	45:l8:69:LEU:HB2	2.20	0.41
55:m9:90:PRO:HG2	55:m9:93:VAL:HG21	2.03	0.41
61:n5:102:LEU:HB2	61:n5:103:TYR:CE2	2.55	0.41
63:n7:42:LEU:HD23	63:n7:101:PHE:HE1	1.85	0.41
64:n8:82:ILE:HD11	64:n8:102:ILE:HG12	2.03	0.41
66:o0:19:LYS:H	66:o0:19:LYS:HG2	1.70	0.41
71:o5:115:LYS:HE2	71:o5:115:LYS:HB2	1.95	0.41
73:o7:28:HIS:HE1	73:o7:30:GLN:HB2	1.85	0.41
81:p0:27:VAL:HG22	81:p0:86:PHE:HE1	1.85	0.41
83:f:93:LEU:HB2	83:f:102:LEU:HB3	2.02	0.41
1:2:872:G:H2'	1:2:873:U:O4'	2.20	0.41
1:2:1366:U:O2'	21:C9:7:ARG:HD2	2.21	0.41
1:2:1460:A:C4	17:C5:128:HIS:CD2	3.08	0.41
1:2:1553:G:H22	1:2:1555:A:H3'	1.84	0.41
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	2.02	0.41
5:S3:31:GLU:HG2	5:S3:107:PHE:CZ	2.55	0.41
7:S5:40:ILE:HG12	7:S5:42:LEU:HB3	2.02	0.41
13:C1:49:ILE:C	13:C1:51:GLY:H	2.27	0.41
18:C6:116:LEU:HD13	18:C6:116:LEU:HA	1.90	0.41
21:C9:117:SER:HB2	21:C9:123:ARG:CB	2.51	0.41
36:1:437:G:H22	36:1:622:A:N6	2.14	0.41
36:1:1415:U:O4	86:1:4019:OHX:N4	2.53	0.41
36:1:1912:U:C4	36:1:1913:A:C6	3.08	0.41
40:L3:252:ILE:HA	40:L3:252:ILE:HD13	1.69	0.41
40:L3:305:ILE:HG13	40:L3:305:ILE:H	1.58	0.41
41:L4:146:PRO:O	86:L4:401:OHX:N5	2.54	0.41
43:L6:5:LYS:HA	43:L6:5:LYS:HE3	2.02	0.41
45:L8:238:LEU:HB2	45:L8:243:GLN:HG2	2.02	0.41
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.20	0.41
48:M1:26:SER:HB3	48:M1:63:GLU:HG2	2.02	0.41
49:M3:174:ARG:HB2	72:O6:9:ILE:CD1	2.50	0.41
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.85	0.41
58:N2:107:PHE:HB3	58:N2:108:TYR:H	1.60	0.41
60:N4:39:LEU:O	60:N4:44:LYS:HB2	2.21	0.41
62:N6:11:ASP:HB3	62:N6:14:LYS:HB2	2.03	0.41
66:O0:14:LEU:O	66:O0:18:ILE:N	2.53	0.41
66:O0:41:LEU:HD22	66:O0:41:LEU:HA	1.84	0.41
68:O2:66:LEU:HD23	68:O2:66:LEU:HA	1.77	0.41
1:6:452:A:OP2	86:6:2027:OHX:N1	2.54	0.41
1:6:755:A:C2	1:6:756:A:C4	3.08	0.41
1:6:952:A:O2'	15:c3:114:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:968:U:H2'	1:6:969:C:O4'	2.21	0.41
1:6:1194:A:OP2	22:d0:75:GLY:N	2.44	0.41
1:6:1281:G:H5''	22:d0:78:THR:HG21	2.03	0.41
1:6:1382:A:C4'	22:d0:57:ARG:HG2	2.51	0.41
1:6:1437:U:H5'	5:s3:176:LEU:HD23	2.03	0.41
1:6:1500:C:OP1	21:c9:122:ARG:NH2	2.53	0.41
1:6:1619:C:H2'	1:6:1620:C:H6	1.85	0.41
4:s2:49:LYS:HD3	4:s2:49:LYS:HA	1.74	0.41
6:s4:86:PHE:O	6:s4:87:MET:HB2	2.20	0.41
6:s4:118:GLU:HA	6:s4:121:TYR:CD1	2.56	0.41
6:s4:125:LYS:HZ3	6:s4:157:ASN:HA	1.86	0.41
7:s5:56:ALA:C	7:s5:58:LEU:H	2.27	0.41
9:s7:39:ARG:N	9:s7:40:PRO:HD2	2.35	0.41
9:s7:97:ARG:HA	9:s7:97:ARG:HD3	1.89	0.41
17:c5:18:ARG:NH2	17:c5:38:PRO:HG3	2.34	0.41
18:c6:44:LEU:HD12	18:c6:78:VAL:HG21	2.03	0.41
20:c8:50:ALA:HB2	20:c8:72:ILE:HD12	2.01	0.41
26:d4:84:LYS:HB3	26:d4:85:PHE:HD2	1.85	0.41
27:d5:98:GLN:HE21	27:d5:99:ALA:H	1.68	0.41
36:5:394:G:N2	36:5:396:A:H3'	2.36	0.41
36:5:654:C:OP1	68:o2:27:ARG:NH2	2.53	0.41
36:5:1034:U:H2'	36:5:1035:G:O4'	2.21	0.41
36:5:1084:A:H2'	36:5:1085:A:O4'	2.20	0.41
36:5:1222:G:H1'	36:5:1285:G:H22	1.85	0.41
36:5:1302:A:H61	36:5:2832:C:H1'	1.85	0.41
36:5:1313:G:O3'	52:m6:17:GLY:HA3	2.19	0.41
36:5:1388:U:OP2	86:5:3926:OHX:N5	2.53	0.41
36:5:1529:A:OP2	36:5:1592:G:N2	2.53	0.41
36:5:2355:G:H4'	53:m7:139:TYR:CD2	2.56	0.41
36:5:2733:A:H2'	36:5:2734:A:O4'	2.21	0.41
36:5:3040:A:OP1	59:n3:12:ARG:N	2.47	0.41
36:5:3163:A:N1	36:5:3164:C:C4	2.89	0.41
36:5:3288:G:O2'	36:5:3289:G:P	2.79	0.41
37:7:22:A:C6	37:7:23:A:C6	3.09	0.41
39:l2:55:GLY:O	39:l2:56:ALA:HB3	2.21	0.41
39:l2:116:VAL:CG1	39:l2:126:LEU:HB2	2.49	0.41
39:l2:202:VAL:HG13	39:l2:217:GLN:HG2	2.02	0.41
40:l3:198:HIS:O	40:l3:201:LYS:HB2	2.20	0.41
41:l4:77:VAL:HG21	41:l4:84:ARG:CZ	2.50	0.41
44:l7:157:ASN:C	44:l7:159:GLN:H	2.29	0.41
45:l8:101:THR:HG23	45:l8:104:GLU:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:122:LYS:HD3	46:l9:123:ILE:H	1.84	0.41
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.20	0.41
47:m0:169:LYS:NZ	57:m1:159:PHE:HA	2.36	0.41
48:m1:96:PHE:CE1	48:m1:160:VAL:HG23	2.55	0.41
51:m5:149:ASN:O	51:m5:152:CYS:HB2	2.21	0.41
51:m5:149:ASN:OD1	86:m5:306:OHX:N1	2.54	0.41
51:m5:183:THR:O	51:m5:184:LYS:HB3	2.21	0.41
51:m5:185:ALA:HB3	51:m5:190:THR:HB	2.00	0.41
54:m8:115:VAL:O	54:m8:118:GLY:N	2.44	0.41
55:m9:173:ARG:HE	55:m9:177:VAL:HG21	1.86	0.41
59:n3:87:ARG:HH22	59:n3:137:VAL:CG2	2.33	0.41
65:n9:11:ASN:OD1	65:n9:14:ARG:HD3	2.20	0.41
71:o5:101:THR:CG2	71:o5:104:GLN:H	2.33	0.41
78:q2:85:LEU:HA	78:q2:85:LEU:HD12	1.73	0.41
83:f:16:SER:HB2	83:f:17:ALA:H	1.48	0.41
1:2:231:U:O2'	1:2:232:U:H3'	2.21	0.41
1:2:728:U:O2	1:2:728:U:H2'	2.21	0.41
1:2:1586:A:H1'	1:2:1611:A:N6	2.35	0.41
2:S0:55:GLU:O	2:S0:58:VAL:HB	2.21	0.41
2:S0:203:PHE:HD2	2:S0:203:PHE:HA	1.74	0.41
5:S3:108:LYS:HE3	5:S3:118:ALA:HA	2.02	0.41
11:S9:40:LYS:HB2	11:S9:40:LYS:HE3	1.89	0.41
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.20	0.41
13:C1:78:THR:OG1	13:C1:119:VAL:HG23	2.21	0.41
15:C3:42:ARG:NH1	15:C3:42:ARG:HB2	2.36	0.41
21:C9:72:GLY:O	21:C9:76:LEU:HG	2.20	0.41
22:D0:102:ARG:O	22:D0:106:ILE:HG22	2.20	0.41
23:D1:72:LEU:O	23:D1:76:ASP:HB2	2.20	0.41
23:D1:79:LEU:HD22	23:D1:82:VAL:HG21	2.03	0.41
26:D4:18:LEU:HD22	26:D4:85:PHE:HD1	1.85	0.41
26:D4:20:ARG:C	26:D4:21:LYS:HD2	2.45	0.41
27:D5:85:LYS:HE3	27:D5:86:GLU:HB3	2.01	0.41
33:E1:149:LYS:HE2	33:E1:149:LYS:HB2	1.71	0.41
34:SR:59:ARG:HB3	34:SR:61:PHE:CE2	2.56	0.41
34:SR:159:ASN:ND2	34:SR:163:ASP:HA	2.35	0.41
36:1:291:C:H2'	36:1:292:U:C6	2.56	0.41
36:1:621:A:O2'	86:1:4061:OHX:N1	2.54	0.41
36:1:863:C:H2'	36:1:864:G:O4'	2.20	0.41
36:1:929:A:C6	36:1:930:U:C4	3.09	0.41
36:1:1039:U:H2'	36:1:1040:A:H8	1.83	0.41
36:1:1621:A:H2'	36:1:1622:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1764:U:H3'	36:1:1765:U:H4'	2.01	0.41
36:1:1926:C:H5'	79:Q3:8:VAL:HG13	2.02	0.41
36:1:2192:C:C4	36:1:2193:U:C5	3.08	0.41
36:1:2207:A:N6	36:1:2208:A:N7	2.69	0.41
36:1:2636:A:H5''	36:1:2637:A:C5'	2.49	0.41
36:1:3047:U:O2'	40:L3:53:MET:HE1	2.20	0.41
36:1:3335:A:N7	36:1:3370:A:O2'	2.36	0.41
40:L3:281:LYS:NZ	40:L3:351:LEU:H	2.19	0.41
41:L4:257:LYS:O	41:L4:260:GLN:HB2	2.21	0.41
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.36	0.41
43:L6:166:LYS:N	43:L6:169:ASP:OD2	2.53	0.41
44:L7:53:LYS:HG3	44:L7:57:THR:HG21	2.02	0.41
44:L7:88:ARG:NE	44:L7:103:LEU:HD13	2.36	0.41
48:M1:85:LYS:HB2	48:M1:85:LYS:NZ	2.36	0.41
52:M6:162:VAL:C	52:M6:164:SER:H	2.29	0.41
53:M7:5:GLY:HA3	53:M7:118:GLN:OE1	2.20	0.41
54:M8:120:GLU:CD	54:M8:130:ARG:HH12	2.29	0.41
64:N8:64:GLN:HB2	64:N8:67:HIS:CD2	2.56	0.41
79:Q3:37:TYR:HB2	79:Q3:47:VAL:HB	2.03	0.41
1:6:500:C:O2'	1:6:501:U:O5'	2.38	0.41
1:6:1507:G:O6	86:6:2020:OHX:N4	2.54	0.41
1:6:1646:C:H2'	1:6:1647:U:C6	2.56	0.41
4:s2:35:TRP:NE1	4:s2:67:GLN:OE1	2.53	0.41
4:s2:71:THR:O	4:s2:74:PRO:HD3	2.21	0.41
5:s3:220:PRO:O	5:s3:221:SER:OG	2.28	0.41
7:s5:37:GLN:CD	18:c6:53:LEU:HD13	2.46	0.41
18:c6:114:ARG:O	18:c6:115:THR:HB	2.21	0.41
23:d1:81:ASN:N	23:d1:81:ASN:OD1	2.54	0.41
25:d3:33:LEU:HD23	25:d3:33:LEU:HA	1.67	0.41
26:d4:127:LYS:O	26:d4:131:ARG:HB2	2.20	0.41
34:sR:22:SER:OG	34:sR:70:ASP:HA	2.20	0.41
36:5:63:A:H5''	51:m5:174:ILE:HG21	2.01	0.41
36:5:546:C:H5'	36:5:547:G:OP1	2.20	0.41
36:5:817:A:C4	73:o7:13:ASN:O	2.73	0.41
36:5:863:C:C4	36:5:864:G:C5	3.09	0.41
36:5:1109:U:H4'	54:m8:153:PHE:CE1	2.55	0.41
36:5:1162:U:H4'	68:o2:57:TYR:CE1	2.56	0.41
36:5:1190:A:C5	36:5:1193:A:H1'	2.55	0.41
36:5:1485:G:N7	86:5:3948:OHX:N2	2.67	0.41
36:5:2953:U:H2'	36:5:2954:U:C6	2.55	0.41
36:5:2997:G:C1'	36:5:3396:U:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3084:C:H2'	36:5:3085:G:O4'	2.21	0.41
36:5:3098:G:H5''	36:5:3099:C:OP1	2.20	0.41
37:7:106:U:H2'	37:7:107:C:C6	2.56	0.41
38:8:57:C:O2'	38:8:58:G:H5'	2.21	0.41
39:12:118:GLU:HG2	39:12:156:LYS:NZ	2.36	0.41
44:17:127:LEU:HD13	44:17:136:TYR:CE2	2.55	0.41
45:18:156:ASP:CG	45:18:183:LYS:HG2	2.46	0.41
47:m0:196:PHE:CG	47:m0:197:VAL:N	2.88	0.41
52:m6:61:ALA:HA	52:m6:70:PRO:HD2	2.02	0.41
53:m7:127:ARG:O	53:m7:139:TYR:N	2.47	0.41
56:n0:14:LEU:HD23	56:n0:14:LEU:HA	1.87	0.41
62:n6:100:HIS:HA	62:n6:101:PRO:HD2	1.79	0.41
62:n6:102:SER:OG	62:n6:103:LYS:NZ	2.54	0.41
63:n7:9:LYS:HA	63:n7:9:LYS:HD3	1.86	0.41
63:n7:105:SER:O	63:n7:109:GLU:N	2.39	0.41
65:n9:23:LYS:HB3	65:n9:24:PRO:HD3	2.03	0.41
65:n9:57:ALA:O	65:n9:58:LYS:NZ	2.29	0.41
66:o0:80:ALA:C	66:o0:82:GLY:H	2.28	0.41
67:o1:83:GLU:O	67:o1:85:ALA:N	2.53	0.41
69:o3:51:TYR:HD2	69:o3:67:MET:HG3	1.86	0.41
1:2:62:A:OP1	86:2:2034:OHX:N4	2.54	0.41
1:2:111:U:C2	1:2:304:U:C4	3.08	0.41
1:2:123:G:OP1	6:S4:77:ARG:NH2	2.52	0.41
1:2:276:C:H1'	1:2:277:U:C5	2.56	0.41
1:2:434:G:N7	86:2:2015:OHX:N2	2.68	0.41
1:2:915:A:N6	16:C4:41:ARG:HH22	2.18	0.41
1:2:1229:G:OP2	33:E1:102:VAL:HG23	2.20	0.41
1:2:1235:C:C2	33:E1:138:ARG:NH2	2.87	0.41
1:2:1458:G:C2	1:2:1459:C:C4	3.09	0.41
1:2:1785:U:H2'	1:2:1786:G:C8	2.51	0.41
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	2.02	0.41
7:S5:89:ILE:HD12	7:S5:90:ILE:H	1.86	0.41
7:S5:120:ILE:HD11	27:D5:98:GLN:NE2	2.36	0.41
10:S8:166:TYR:HB3	10:S8:184:LEU:HD22	2.02	0.41
11:S9:99:LEU:HD12	11:S9:99:LEU:HA	1.93	0.41
11:S9:150:LEU:C	11:S9:152:SER:H	2.29	0.41
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	2.02	0.41
17:C5:16:SER:HA	17:C5:20:VAL:O	2.21	0.41
17:C5:128:HIS:O	17:C5:130:ARG:NH1	2.54	0.41
20:C8:36:LYS:HB2	20:C8:102:ALA:HA	2.02	0.41
23:D1:15:ARG:O	23:D1:16:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:125:LEU:HD12	26:D4:125:LEU:HA	1.95	0.41
28:D6:10:ARG:HB2	28:D6:34:LYS:HG3	2.02	0.41
34:SR:144:LEU:HD12	34:SR:181:TRP:CZ3	2.56	0.41
35:SM:84:LYS:HD3	35:SM:86:ASN:HB2	2.03	0.41
36:1:597:G:OP1	44:L7:37:ASN:HB3	2.20	0.41
36:1:727:G:O6	36:1:742:G:O2'	2.36	0.41
36:1:952:A:OP1	65:N9:14:ARG:NH2	2.54	0.41
36:1:1049:C:H2'	36:1:1050:U:C6	2.56	0.41
36:1:2777:G:H4'	36:1:2778:G:H5''	2.03	0.41
36:1:2987:A:H2'	36:1:2988:C:C6	2.56	0.41
36:1:3180:A:C6	52:M6:114:LYS:HD2	2.55	0.41
37:3:108:A:H2'	37:3:109:G:C8	2.56	0.41
40:L3:161:LEU:HD22	40:L3:178:LEU:HD11	2.02	0.41
41:L4:82:THR:HG23	41:L4:84:ARG:H	1.86	0.41
41:L4:99:MET:HE3	41:L4:103:THR:H	1.85	0.41
43:L6:97:ASN:O	43:L6:99:GLU:HG3	2.19	0.41
43:L6:165:LEU:HA	43:L6:165:LEU:HD23	1.77	0.41
44:L7:92:ILE:HA	44:L7:92:ILE:HD13	1.86	0.41
44:L7:126:LEU:O	44:L7:130:ILE:HG12	2.20	0.41
47:M0:3:ARG:NH2	47:M0:63:GLU:HG3	2.35	0.41
51:M5:99:ARG:HA	51:M5:130:PHE:CE2	2.56	0.41
53:M7:14:SER:C	53:M7:107:LEU:HD21	2.46	0.41
53:M7:67:ILE:CG2	53:M7:68:GLY:N	2.84	0.41
60:N4:66:GLU:C	60:N4:68:ALA:H	2.29	0.41
61:N5:82:LEU:HB3	61:N5:84:PHE:CE2	2.56	0.41
62:N6:48:LEU:HD13	62:N6:115:ARG:HE	1.86	0.41
63:N7:26:VAL:HG22	63:N7:42:LEU:O	2.21	0.41
65:N9:10:HIS:O	65:N9:11:ASN:HB3	2.20	0.41
67:O1:52:ALA:HA	67:O1:53:PRO:HD3	1.93	0.41
72:O6:46:GLU:H	72:O6:46:GLU:HG2	1.68	0.41
1:6:215:A:H5''	1:6:216:U:OP2	2.21	0.41
1:6:570:A:H8	1:6:570:A:OP2	2.04	0.41
1:6:587:C:H5'	32:e0:24:THR:HG23	2.03	0.41
1:6:838:G:O6	86:6:2067:OHX:N3	2.53	0.41
1:6:1086:A:H2	1:6:1141:G:N3	2.19	0.41
1:6:1214:U:OP1	1:6:1246:C:H1'	2.21	0.41
1:6:1442:U:H2'	1:6:1443:U:C6	2.56	0.41
1:6:1514:U:H1'	5:s3:6:SER:HA	2.03	0.41
1:6:1647:U:H2'	1:6:1648:A:C8	2.56	0.41
1:6:1779:U:H2'	1:6:1781:A:OP2	2.20	0.41
2:s0:64:ILE:HD12	2:s0:181:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:106:ASP:HB2	4:s2:107:SER:H	1.60	0.41
5:s3:191:ASP:OD2	5:s3:193:ALA:HB3	2.20	0.41
6:s4:159:THR:HG21	6:s4:227:VAL:O	2.20	0.41
9:s7:64:VAL:N	9:s7:65:PRO:HD2	2.36	0.41
12:c0:34:GLU:O	12:c0:35:ILE:HB	2.21	0.41
17:c5:111:MET:HG2	20:c8:119:ILE:CG1	2.51	0.41
21:c9:6:VAL:HG13	21:c9:66:TYR:CE1	2.56	0.41
34:sR:19:TRP:CD2	34:sR:306:THR:HG22	2.56	0.41
35:sM:48:ARG:HA	36:5:1019:G:OP1	2.21	0.41
36:5:59:G:O6	36:5:330:G:N2	2.54	0.41
36:5:507:U:H2'	36:5:508:U:H6	1.81	0.41
36:5:1343:A:C2	36:5:1362:G:C2	3.09	0.41
36:5:1431:G:OP2	64:n8:12:ARG:NH1	2.54	0.41
36:5:1775:G:C2	36:5:1776:G:C8	3.08	0.41
36:5:1934:G:O6	86:5:3833:OHX:N2	2.53	0.41
36:5:1944:U:H3	36:5:2104:A:H61	1.69	0.41
36:5:2117:A:H2'	36:5:2118:C:O4'	2.21	0.41
36:5:2138:A:O2'	73:o7:3:LYS:HG2	2.20	0.41
36:5:2186:U:OP2	39:l2:200:ARG:HD2	2.21	0.41
36:5:2507:C:HO2'	36:5:2508:U:P	2.42	0.41
36:5:2515:A:H5''	51:m5:28:TRP:CD1	2.56	0.41
36:5:2687:G:OP1	42:l5:8:LYS:NZ	2.50	0.41
36:5:2836:C:H1'	47:m0:157:TYR:HB3	2.03	0.41
36:5:2931:C:H2'	36:5:2932:U:O4'	2.21	0.41
36:5:2984:C:H2'	36:5:2985:C:C6	2.55	0.41
36:5:3101:G:H2'	36:5:3102:G:O4'	2.21	0.41
39:l2:137:ILE:HG23	39:l2:147:ARG:O	2.20	0.41
40:l3:91:GLY:O	40:l3:101:SER:HA	2.21	0.41
42:l5:270:LYS:O	42:l5:273:ARG:HB3	2.20	0.41
43:l6:155:LEU:HD22	43:l6:159:LEU:HG	2.02	0.41
44:l7:96:PRO:HA	44:l7:97:PRO:HD3	1.90	0.41
47:m0:78:THR:OG1	47:m0:79:VAL:N	2.54	0.41
52:m6:180:SER:OG	52:m6:181:ALA:N	2.54	0.41
55:m9:144:GLN:HE22	55:m9:151:ARG:HH22	1.68	0.41
57:n1:14:MET:CE	57:n1:55:LYS:HB2	2.50	0.41
58:n2:43:VAL:HG21	58:n2:49:ASN:C	2.46	0.41
64:n8:73:LEU:O	64:n8:112:ILE:HA	2.21	0.41
70:o4:65:VAL:HG13	70:o4:69:HIS:HB2	2.02	0.41
71:o5:77:PRO:HD2	71:o5:80:LEU:HD12	2.03	0.41
81:p0:52:LEU:HD22	81:p0:52:LEU:HA	1.77	0.41
1:2:130:C:O2'	1:2:131:C:OP1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:249:U:H3'	1:2:250:C:H5'	2.03	0.41
1:2:256:A:H2'	1:2:257:A:O4'	2.21	0.41
1:2:549:G:C2	1:2:550:A:C8	3.09	0.41
1:2:635:A:H2'	1:2:636:A:C8	2.55	0.41
1:2:736:C:C2'	1:2:737:A:H5'	2.51	0.41
1:2:773:C:OP1	6:S4:21:ASP:HB2	2.21	0.41
1:2:845:G:O6	86:2:2036:OHX:N5	2.54	0.41
1:2:884:A:H61	1:2:927:C:H42	1.69	0.41
1:2:895:G:HO2'	16:C4:38:THR:H	1.61	0.41
1:2:1061:A:H2'	1:2:1062:A:H5'	2.01	0.41
1:2:1132:A:H2'	1:2:1133:A:C8	2.52	0.41
1:2:1178:G:C6	1:2:1179:G:C5	3.09	0.41
1:2:1216:C:C2	1:2:1444:A:N1	2.89	0.41
1:2:1253:U:H4'	33:E1:143:LYS:CA	2.51	0.41
1:2:1279:C:H2'	1:2:1280:C:O4'	2.20	0.41
1:2:1552:U:O2'	1:2:1598:U:O4'	2.34	0.41
1:2:1596:C:P	31:D9:19:ARG:HH12	2.44	0.41
2:S0:198:MET:SD	19:C7:85:VAL:HG11	2.60	0.41
3:S1:27:LYS:HA	3:S1:27:LYS:HD3	1.73	0.41
5:S3:45:LYS:HB2	5:S3:46:THR:H	1.68	0.41
5:S3:48:VAL:HB	5:S3:86:LEU:HD12	2.03	0.41
6:S4:73:ASP:OD1	6:S4:89:VAL:N	2.53	0.41
6:S4:180:LEU:HD23	6:S4:180:LEU:HA	1.85	0.41
8:S6:170:THR:O	8:S6:170:THR:OG1	2.37	0.41
8:S6:201:GLN:HE21	8:S6:201:GLN:HB2	1.65	0.41
9:S7:154:LEU:HD21	9:S7:183:PHE:CD1	2.52	0.41
10:S8:98:LYS:C	10:S8:100:ALA:H	2.29	0.41
10:S8:196:LEU:HB3	10:S8:200:LYS:HE2	2.02	0.41
14:C2:118:ALA:C	14:C2:119:SER:HG	2.29	0.41
14:C2:130:THR:O	14:C2:133:LEU:HB2	2.20	0.41
15:C3:88:LEU:HD23	15:C3:88:LEU:HA	1.93	0.41
17:C5:89:MET:H	17:C5:89:MET:HG3	1.74	0.41
18:C6:140:LYS:HB2	18:C6:140:LYS:HE3	1.95	0.41
22:D0:27:THR:HB	22:D0:88:LYS:HG3	2.03	0.41
22:D0:96:PRO:HB2	22:D0:97:VAL:H	1.57	0.41
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.85	0.41
26:D4:86:GLU:OE1	26:D4:90:ARG:HD2	2.21	0.41
28:D6:51:ARG:O	28:D6:55:GLU:HB2	2.21	0.41
28:D6:88:SER:OG	28:D6:91:ASP:HB2	2.21	0.41
30:D8:5:THR:HA	30:D8:6:PRO:HD3	1.79	0.41
34:SR:88:THR:HG22	34:SR:104:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:238:ASP:HB2	34:SR:239:GLU:H	1.59	0.41
36:1:128:G:H2'	36:1:129:U:O4'	2.21	0.41
36:1:543:C:H3'	36:1:544:C:C6	2.56	0.41
36:1:644:G:H2'	36:1:2372:A:N7	2.36	0.41
36:1:663:C:H2'	36:1:664:U:C6	2.55	0.41
36:1:726:G:H1'	36:1:744:A:N6	2.35	0.41
36:1:911:C:N4	39:L2:3:ARG:HD3	2.36	0.41
36:1:926:A:H2'	36:1:927:C:C6	2.56	0.41
36:1:1223:A:C6	36:1:1224:C:C4	3.09	0.41
36:1:1350:A:H2'	36:1:1351:U:H3'	2.02	0.41
36:1:1500:G:H2'	36:1:1501:U:O4'	2.21	0.41
36:1:1668:G:C6	36:1:1669:C:C4	3.09	0.41
36:1:1716:U:O2'	36:1:1717:U:H4'	2.21	0.41
36:1:1719:G:H4'	36:1:1732:U:H4'	2.03	0.41
36:1:2704:A:C8	36:1:2706:G:C5	3.09	0.41
36:1:2704:A:C8	36:1:2706:G:C6	3.09	0.41
36:1:2713:U:OP1	78:Q2:9:LYS:HD2	2.21	0.41
36:1:2714:G:H4'	36:1:2715:A:O5'	2.20	0.41
36:1:2830:G:H2'	36:1:2831:G:C8	2.55	0.41
36:1:3057:U:C2	36:1:3086:A:C6	3.08	0.41
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.20	0.41
38:4:45:C:H2'	38:4:46:G:O4'	2.20	0.41
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.53	0.41
39:L2:188:LYS:HD3	39:L2:189:TYR:CE1	2.56	0.41
40:L3:281:LYS:HZ2	40:L3:351:LEU:H	1.68	0.41
41:L4:11:LEU:HA	41:L4:11:LEU:HD23	1.78	0.41
42:L5:179:ARG:HA	42:L5:179:ARG:HD3	1.83	0.41
44:L7:66:LYS:HG3	44:L7:76:TYR:CD2	2.55	0.41
44:L7:89:ILE:HA	44:L7:89:ILE:HD13	1.73	0.41
45:L8:200:LEU:HD23	45:L8:200:LEU:HA	1.84	0.41
46:L9:101:VAL:HG12	46:L9:136:PHE:HZ	1.86	0.41
47:M0:10:ARG:NH2	47:M0:161:GLY:HA2	2.36	0.41
48:M1:132:ASN:HA	48:M1:154:THR:CG2	2.50	0.41
50:M4:24:LYS:HG2	50:M4:62:GLN:O	2.21	0.41
51:M5:53:TYR:O	51:M5:54:LYS:HD2	2.21	0.41
52:M6:23:VAL:CG1	52:M6:84:LEU:HD11	2.50	0.41
53:M7:48:LEU:HA	53:M7:48:LEU:HD23	1.72	0.41
55:M9:167:ARG:HG2	55:M9:170:ARG:HD2	2.03	0.41
56:N0:139:TYR:CE2	56:N0:140:VAL:HG23	2.55	0.41
59:N3:74:MET:HE3	59:N3:102:ILE:HD13	2.01	0.41
59:N3:104:ASN:HD21	59:N3:106:LYS:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:73:MET:HE2	61:N5:141:TYR:CE1	2.55	0.41
68:O2:103:LYS:O	68:O2:106:VAL:HG22	2.21	0.41
73:O7:39:TYR:HA	73:O7:40:PRO:HA	1.75	0.41
77:Q1:16:LYS:O	77:Q1:20:VAL:HG23	2.19	0.41
1:6:187:G:H8	1:6:187:G:O5'	2.04	0.41
1:6:636:A:H1'	24:d2:58:SER:OG	2.21	0.41
1:6:957:G:C6	1:6:958:U:C4	3.09	0.41
1:6:984:G:N7	86:6:2014:OHX:N2	2.68	0.41
1:6:1081:A:N3	1:6:1083:G:C6	2.89	0.41
1:6:1200:G:H4'	1:6:1201:G:C5'	2.50	0.41
1:6:1241:G:H1'	17:c5:79:HIS:HB2	2.02	0.41
1:6:1562:G:C2	1:6:1563:C:C2	3.09	0.41
1:6:1634:C:H4'	1:6:1635:A:OP2	2.21	0.41
1:6:1756[A]:A:O5'	1:6:1756[A]:A:H8	2.03	0.41
4:s2:54:GLU:CD	4:s2:54:GLU:H	2.27	0.41
6:s4:21:ASP:OD1	6:s4:24:SER:OG	2.38	0.41
7:s5:43:PHE:CG	7:s5:44:ASN:N	2.80	0.41
7:s5:62:VAL:CG1	7:s5:89:ILE:HG12	2.50	0.41
7:s5:168:VAL:O	7:s5:172:ILE:HG13	2.21	0.41
13:c1:53:TYR:CD1	13:c1:53:TYR:C	2.98	0.41
15:c3:36:GLN:NE2	15:c3:39:LYS:HD3	2.36	0.41
15:c3:107:LYS:HE3	15:c3:107:LYS:HB3	1.95	0.41
21:c9:6:VAL:HG13	21:c9:66:TYR:CZ	2.56	0.41
21:c9:6:VAL:C	21:c9:8:ASP:H	2.29	0.41
33:e1:123:ASN:HA	33:e1:124:PRO:HD2	1.90	0.41
34:sR:37:SER:HB3	34:sR:39:ASP:OD1	2.21	0.41
36:5:238:A:H2'	36:5:239:G:C8	2.56	0.41
36:5:260:C:H2'	36:5:261:U:O4'	2.20	0.41
36:5:701:G:H2'	36:5:702:C:C6	2.56	0.41
36:5:722:G:C5	36:5:723:U:C5	3.08	0.41
36:5:848:A:C4	36:5:849:C:H1'	2.56	0.41
36:5:1306:G:C6	52:m6:62:THR:HA	2.56	0.41
36:5:1466:G:O6	86:5:3830:OHX:N5	2.54	0.41
36:5:2206:G:N2	36:5:2238:G:H1'	2.36	0.41
36:5:2533:G:C6	86:5:3955:OHX:N2	2.89	0.41
36:5:2550:U:C5	45:l8:36:ILE:HG22	2.56	0.41
36:5:2950:G:C5	36:5:2979:U:C4	3.09	0.41
36:5:3156:U:O2'	36:5:3157:U:O4'	2.39	0.41
36:5:3269:U:H4'	36:5:3270:U:O5'	2.21	0.41
37:7:110:G:C6	37:7:111:U:C4	3.09	0.41
40:l3:3:HIS:C	40:l3:3:HIS:HD1	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:235:THR:O	40:l3:236:LYS:C	2.64	0.41
41:l4:222:VAL:HG13	41:l4:225:VAL:HB	2.02	0.41
41:l4:354:VAL:O	41:l4:358:THR:HG23	2.19	0.41
42:l5:259:LYS:H	42:l5:259:LYS:CD	2.33	0.41
44:l7:136:TYR:CE2	44:l7:231:ASN:ND2	2.89	0.41
46:l9:25:VAL:O	46:l9:35:THR:HA	2.20	0.41
48:m1:103:GLY:HA3	48:m1:128:TYR:CD2	2.55	0.41
51:m5:164:LEU:HA	51:m5:164:LEU:HD23	1.77	0.41
54:m8:165:ILE:HD11	54:m8:172:PHE:HB3	2.03	0.41
57:n1:138:SER:C	57:n1:139:ARG:HG3	2.46	0.41
59:n3:67:PRO:C	59:n3:69:LEU:N	2.79	0.41
61:n5:51:VAL:HG12	61:n5:52:PRO:O	2.21	0.41
64:n8:60:TYR:C	64:n8:60:TYR:CD1	2.99	0.41
67:o1:30:PRO:HG3	67:o1:60:TRP:HZ2	1.82	0.41
68:o2:76:VAL:HG21	68:o2:94:ALA:HB1	2.03	0.41
72:o6:26:ILE:H	72:o6:26:ILE:HG13	1.55	0.41
83:f:93:LEU:HD23	83:f:93:LEU:HA	1.91	0.41
1:2:38:C:C2'	1:2:39:A:H5'	2.50	0.41
1:2:163:G:H5'	8:S6:54:GLY:HA3	2.03	0.41
1:2:918:U:H5'	16:C4:29:HIS:NE2	2.36	0.41
1:2:1265:G:H2'	1:2:1266:U:O4'	2.20	0.41
1:2:1648:A:H4'	32:E0:4:VAL:HG21	2.03	0.41
86:2:2143:OHX:N1	28:D6:2:PRO:HD3	2.36	0.41
3:S1:164:ILE:O	3:S1:168:ILE:HG13	2.20	0.41
4:S2:64:LYS:HA	4:S2:134:LEU:HD11	2.02	0.41
9:S7:112:ARG:NH2	9:S7:117:THR:OG1	2.54	0.41
15:C3:20:ARG:HD2	24:D2:56:HIS:NE2	2.35	0.41
20:C8:66:LEU:O	20:C8:70:VAL:HG23	2.21	0.41
25:D3:19:ARG:NE	25:D3:19:ARG:HA	2.36	0.41
26:D4:35:VAL:HG13	26:D4:36:SER:N	2.36	0.41
28:D6:18:VAL:HG21	28:D6:33:ASP:OD1	2.21	0.41
28:D6:90:GLU:C	28:D6:92:ARG:H	2.29	0.41
29:D7:3:LEU:HD23	29:D7:3:LEU:HA	1.74	0.41
33:E1:148:TYR:HD1	33:E1:148:TYR:HA	1.74	0.41
36:1:279:U:H2'	36:1:280:U:H6	1.86	0.41
36:1:503:C:OP1	43:L6:26:ARG:HD2	2.21	0.41
36:1:817:A:H8	73:O7:15:SER:HG	1.66	0.41
36:1:900:G:H2'	36:1:901:G:C8	2.56	0.41
36:1:2162:U:H2'	36:1:2163:C:O4'	2.21	0.41
36:1:2194:G:C6	36:1:2195:C:N4	2.89	0.41
36:1:2338:C:H1'	59:N3:49:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2356:A:H4'	53:M7:138:LYS:O	2.21	0.41
36:1:3328:G:C2	36:1:3329:U:H1'	2.55	0.41
38:4:121:U:C2	38:4:122:U:C5	3.09	0.41
38:4:140:G:H2'	38:4:141:C:O4'	2.21	0.41
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.20	0.41
40:L3:169:THR:HG22	40:L3:171:LEU:HG	2.02	0.41
49:M3:165:SER:O	49:M3:167:PHE:N	2.54	0.41
51:M5:19:LEU:HD12	51:M5:22:LEU:HD23	2.03	0.41
51:M5:165:THR:O	51:M5:169:LYS:HG3	2.20	0.41
52:M6:25:LYS:HD3	52:M6:25:LYS:HA	1.72	0.41
53:M7:24:VAL:CG1	53:M7:86:LYS:HG2	2.50	0.41
53:M7:118:GLN:HG3	53:M7:147:GLU:HG2	2.03	0.41
57:N1:40:VAL:HG21	57:N1:96:ILE:HG13	2.03	0.41
57:N1:79:MET:HB3	57:N1:84:TYR:CE2	2.56	0.41
68:O2:4:LEU:HD12	68:O2:4:LEU:HA	1.88	0.41
78:Q2:8:ARG:HH11	78:Q2:8:ARG:HG3	1.86	0.41
1:6:1012:U:H2'	1:6:1013:A:O4'	2.21	0.41
1:6:1433:G:C4	31:d9:41:GLN:HB3	2.55	0.41
1:6:1565:C:H2'	1:6:1566:U:C6	2.56	0.41
3:s1:59:ASP:O	3:s1:61:LEU:N	2.53	0.41
3:s1:72:ASP:H	16:c4:114:ARG:HH12	1.69	0.41
6:s4:41:SER:HB2	6:s4:42:LEU:H	1.76	0.41
6:s4:67:GLN:HB3	6:s4:69:HIS:CD2	2.56	0.41
7:s5:43:PHE:HD2	7:s5:46:TRP:HD1	1.67	0.41
10:s8:118:GLY:HA3	10:s8:143:TRP:CE3	2.56	0.41
11:s9:17:ARG:O	11:s9:23:ARG:NH2	2.53	0.41
11:s9:71:PHE:C	11:s9:71:PHE:HD1	2.29	0.41
11:s9:171:ARG:CZ	11:s9:174:ARG:HD3	2.50	0.41
16:c4:90:ARG:HB3	16:c4:91:THR:H	1.70	0.41
18:c6:82:ARG:NH2	18:c6:116:LEU:HG	2.35	0.41
18:c6:103:ASN:O	18:c6:107:LYS:HB2	2.21	0.41
21:c9:61:VAL:O	21:c9:65:ILE:HG13	2.20	0.41
26:d4:15:ASN:HA	26:d4:16:PRO:HD2	1.97	0.41
29:d7:40:CYS:O	29:d7:42:ASN:N	2.54	0.41
36:5:75:G:H4'	49:m3:70:ARG:NH2	2.36	0.41
36:5:295:A:OP1	72:o6:53:TYR:HE2	2.04	0.41
36:5:980:A:H2'	36:5:981:U:C1'	2.50	0.41
36:5:1315:U:OP1	52:m6:18:ARG:NH1	2.50	0.41
36:5:1441:G:O2'	36:5:1442:U:H5'	2.21	0.41
36:5:2599:U:H2'	36:5:2600:C:C6	2.56	0.41
36:5:2875:U:C4	86:5:4058:OHX:N3	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2988:C:P	52:m6:68:ARG:NH1	2.94	0.41
36:5:3031:G:O6	86:5:3996:OHX:N1	2.54	0.41
36:5:3266:G:C6	36:5:3267:A:C6	3.09	0.41
36:5:3342:A:N6	36:5:3343:G:C6	2.89	0.41
37:7:9:C:OP2	37:7:10:C:N4	2.51	0.41
40:l3:131:THR:OG1	40:l3:132:LYS:N	2.54	0.41
42:l5:136:GLU:H	42:l5:136:GLU:CD	2.29	0.41
45:l8:95:ASN:HA	45:l8:98:ARG:NH1	2.36	0.41
46:l9:62:ARG:HA	46:l9:62:ARG:HD3	1.75	0.41
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	2.03	0.41
46:l9:93:VAL:O	46:l9:177:ASP:HA	2.21	0.41
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	2.01	0.41
49:m3:32:LYS:HA	49:m3:35:ARG:CZ	2.50	0.41
50:m4:59:ASN:C	50:m4:61:GLY:N	2.77	0.41
51:m5:114:ARG:NH2	51:m5:157:LYS:HG3	2.35	0.41
56:n0:10:ILE:O	56:n0:59:VAL:N	2.53	0.41
57:n1:88:ARG:NH2	65:n9:33:LYS:O	2.38	0.41
64:n8:147:LEU:HD12	72:o6:7:ILE:HD11	2.03	0.41
81:p0:7:LYS:HD3	81:p0:7:LYS:HA	1.93	0.41
81:p0:45:LEU:HG	81:p0:99:VAL:HG11	2.03	0.41
1:2:103:A:O3'	1:2:308:C:N4	2.54	0.40
1:2:144:U:C2	1:2:145:A:C8	3.10	0.40
1:2:156:A:H1'	1:2:416:A:C5	2.57	0.40
1:2:783:G:O2'	1:2:784:C:OP2	2.28	0.40
1:2:1156:C:OP1	86:2:2151:OHX:N2	2.55	0.40
1:2:1317:C:O2'	1:2:1400:A:N3	2.47	0.40
1:2:1533:C:H4'	1:2:1539:G:C2	2.56	0.40
2:S0:167:LYS:HB3	2:S0:168:HIS:H	1.50	0.40
3:S1:142:PHE:O	3:S1:208:GLN:N	2.44	0.40
5:S3:113:LEU:HD23	5:S3:113:LEU:HA	1.88	0.40
6:S4:43:PRO:C	6:S4:45:ILE:H	2.29	0.40
7:S5:213:LYS:HA	7:S5:213:LYS:HD3	1.83	0.40
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.21	0.40
11:S9:112:GLN:HG3	11:S9:148:VAL:HB	2.03	0.40
24:D2:75:ILE:HG13	24:D2:125:ILE:HD13	2.02	0.40
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.36	0.40
36:1:139:G:H2'	36:1:140:C:C6	2.56	0.40
36:1:250:U:H3'	36:1:251:G:C5'	2.50	0.40
36:1:1192:C:C4	86:1:3945:OHX:N5	2.89	0.40
36:1:2252:A:C2	36:1:2265:C:C2	3.09	0.40
36:1:2565:U:H2'	36:1:2566:C:C6	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2676:A:N6	48:M1:22:SER:O	2.55	0.40
36:1:2775:U:H2'	36:1:2776:C:C6	2.56	0.40
36:1:2900:A:N3	36:1:3025:C:O2'	2.50	0.40
36:1:2910:A:N1	86:1:3770:OHX:N1	2.68	0.40
36:1:3174:A:C5	36:1:3279:A:H1'	2.56	0.40
36:1:3218:A:OP1	36:1:3218:A:H3'	2.21	0.40
37:3:53:U:H2'	37:3:54:U:C6	2.56	0.40
38:4:107:G:C2	38:4:116:G:C5	3.09	0.40
40:L3:62:ARG:O	40:L3:64:GLY:N	2.54	0.40
40:L3:68:HIS:O	40:L3:69:LYS:C	2.64	0.40
40:L3:139:GLN:HB2	40:L3:140:ASP:H	1.64	0.40
46:L9:2:LYS:HD3	46:L9:2:LYS:HA	1.89	0.40
49:M3:189:GLU:HA	49:M3:192:GLU:CD	2.46	0.40
51:M5:169:LYS:HE2	51:M5:169:LYS:HB3	1.93	0.40
54:M8:19:PRO:HD3	54:M8:53:PHE:CD1	2.56	0.40
63:N7:51:LEU:HB2	63:N7:65:ARG:HH11	1.86	0.40
63:N7:87:LEU:HG	63:N7:88:ASP:N	2.35	0.40
64:N8:65:GLN:H	64:N8:65:GLN:HG2	1.69	0.40
70:O4:3:GLN:HE21	70:O4:3:GLN:HB2	1.64	0.40
73:O7:14:LYS:NZ	75:O9:51:ILE:HD11	2.36	0.40
1:6:30:G:C6	1:6:31:C:C4	3.09	0.40
1:6:139:C:H4'	1:6:140:A:O5'	2.21	0.40
1:6:474:A:OP2	11:s9:44:ARG:NH1	2.44	0.40
1:6:838:G:C6	1:6:839:U:C4	3.09	0.40
1:6:1429:G:C6	1:6:1430:U:C4	3.10	0.40
1:6:1696:G:H2'	1:6:1698:G:O6	2.21	0.40
2:s0:110:TYR:CD2	2:s0:110:TYR:N	2.82	0.40
2:s0:188:LEU:HA	2:s0:188:LEU:HD22	1.84	0.40
3:s1:71:ALA:O	3:s1:73:LEU:N	2.54	0.40
4:s2:212:LYS:O	4:s2:215:PHE:HB3	2.21	0.40
8:s6:76:LEU:HA	8:s6:76:LEU:HD23	1.74	0.40
11:s9:142:ASN:C	11:s9:143:ILE:HG12	2.46	0.40
18:c6:37:THR:HA	18:c6:49:TYR:OH	2.21	0.40
20:c8:31:ALA:CB	20:c8:58:ALA:HB2	2.50	0.40
21:c9:108:LEU:HB3	21:c9:114:VAL:HG22	2.02	0.40
22:d0:24:ILE:HG23	22:d0:116:VAL:HG12	2.03	0.40
34:sR:24:ALA:HB3	34:sR:34:LEU:HB3	2.03	0.40
34:sR:80:ALA:O	34:sR:92:TRP:N	2.51	0.40
34:sR:103:PHE:CE1	34:sR:138:GLY:HA2	2.56	0.40
36:5:138:U:H2'	36:5:139:G:C8	2.56	0.40
36:5:524:U:OP1	50:m4:77:ARG:NH2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:952:A:N3	36:5:1114:U:O2'	2.46	0.40
36:5:1192:C:C5	86:5:4001:OHX:N5	2.90	0.40
36:5:1223:A:N1	36:5:1287:A:O2'	2.39	0.40
36:5:1595:U:C2	36:5:1596:C:C5	3.09	0.40
36:5:3078:U:OP1	36:5:3080:G:H5'	2.22	0.40
36:5:3180:A:H2'	52:m6:167:TYR:HE1	1.86	0.40
36:5:3223:A:C5	36:5:3263:G:C6	3.08	0.40
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.54	0.40
40:l3:214:MET:H	40:l3:214:MET:HG2	1.74	0.40
43:l6:51:ARG:NH1	50:m4:114:ASP:OD2	2.51	0.40
44:l7:93:ASN:O	44:l7:94:LYS:HB2	2.21	0.40
44:l7:205:PHE:CD2	44:l7:205:PHE:N	2.89	0.40
50:m4:97:SER:O	50:m4:100:ALA:N	2.54	0.40
54:m8:62:VAL:HG13	54:m8:66:ARG:HD3	2.03	0.40
61:n5:38:LEU:HD13	61:n5:40:LEU:HD21	2.02	0.40
62:n6:37:LYS:H	62:n6:37:LYS:CD	2.34	0.40
62:n6:50:ILE:CD1	62:n6:70:ILE:HG13	2.50	0.40
63:n7:54:THR:HG21	63:n7:56:LYS:NZ	2.36	0.40
70:o4:41:ARG:HA	70:o4:42:PRO:HD3	1.86	0.40
1:2:139:C:HO2'	1:2:140:A:P	2.44	0.40
1:2:339:C:P	10:S8:10:LYS:HD2	2.61	0.40
1:2:393:C:H4'	1:2:1673:G:O2'	2.21	0.40
1:2:491:C:N3	1:2:496:G:N2	2.68	0.40
1:2:895:G:O2'	16:C4:38:THR:N	2.33	0.40
1:2:1153:G:H1	1:2:1625:C:N4	2.16	0.40
1:2:1156:C:O2'	1:2:1157:A:H5'	2.21	0.40
1:2:1557:U:OP2	1:2:1559:A:O2'	2.15	0.40
1:2:1667:A:H4'	36:1:1935:G:O2'	2.21	0.40
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.92	0.40
4:S2:243:TYR:O	4:S2:246:GLU:HB2	2.20	0.40
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.85	0.40
6:S4:47:PHE:HE2	6:S4:90:ILE:HG21	1.86	0.40
16:C4:114:ARG:HA	28:D6:62:TYR:OH	2.21	0.40
20:C8:30:TYR:C	20:C8:33:THR:HG1	2.24	0.40
22:D0:21:LYS:HE3	22:D0:21:LYS:HB2	1.95	0.40
32:E0:53:LYS:HB3	32:E0:53:LYS:HE2	1.82	0.40
36:1:75:G:H5'	49:M3:58:VAL:CG1	2.51	0.40
36:1:801:A:OP1	64:N8:27:LYS:NZ	2.46	0.40
36:1:1369:A:H2'	36:1:1370:G:O4'	2.21	0.40
36:1:1543:G:N2	36:1:1551:C:H1'	2.36	0.40
36:1:1646:G:HO2'	36:1:1647:A:P	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1922:A:H3'	36:1:1923:C:C6	2.54	0.40
36:1:3021:A:C8	36:1:3023:U:C2	3.09	0.40
36:1:3033:A:H2'	36:1:3034:C:C6	2.56	0.40
36:1:3087:A:OP1	86:1:4082:OHX:N1	2.54	0.40
36:1:3296:A:H62	40:L3:124:LYS:HZ1	1.69	0.40
38:4:86:U:H5'	38:4:87:G:OP1	2.22	0.40
40:L3:60:LEU:O	40:L3:69:LYS:N	2.54	0.40
43:L6:50:LYS:HG2	43:L6:74:VAL:CG2	2.52	0.40
43:L6:168:GLY:O	43:L6:170:LYS:HE3	2.21	0.40
52:M6:141:LEU:O	52:M6:145:VAL:HG22	2.20	0.40
56:N0:14:LEU:HD23	56:N0:14:LEU:HA	1.81	0.40
56:N0:75:PHE:O	56:N0:94:ILE:N	2.48	0.40
57:N1:39:ILE:HD12	57:N1:102:ARG:HD3	2.01	0.40
62:N6:27:ARG:HB2	62:N6:75:ARG:HD3	2.03	0.40
62:N6:74:TYR:CZ	62:N6:77:LYS:HE3	2.56	0.40
62:N6:111:LEU:CD2	62:N6:116:LYS:HE3	2.51	0.40
75:O9:3:ALA:H	75:O9:5:LYS:NZ	2.19	0.40
1:6:560:U:H2'	1:6:561:G:C8	2.55	0.40
1:6:1157:A:OP1	86:6:2109:OHX:N4	2.54	0.40
1:6:1392:U:H2'	1:6:1393:C:C6	2.56	0.40
1:6:1595:U:N3	1:6:1600:A:H2	2.14	0.40
2:s0:83:GLN:O	2:s0:87:LEU:HD22	2.21	0.40
3:s1:35:PRO:CB	3:s1:231:LEU:HD11	2.51	0.40
5:s3:103:GLU:HG3	5:s3:106:LYS:HD2	2.03	0.40
7:s5:184:PHE:C	7:s5:186:ASN:N	2.79	0.40
9:s7:75:THR:HG22	9:s7:161:GLN:OE1	2.20	0.40
10:s8:138:ASN:OD1	10:s8:138:ASN:N	2.54	0.40
11:s9:134:ILE:HD13	11:s9:141:VAL:O	2.21	0.40
12:c0:32:HIS:CG	12:c0:33:GLU:H	2.36	0.40
23:d1:25:LYS:CB	23:d1:28:ASP:HB2	2.50	0.40
24:d2:96:ALA:HB3	24:d2:99:PHE:CE1	2.56	0.40
27:d5:46:LYS:HA	27:d5:49:ARG:HG3	2.02	0.40
28:d6:59:TYR:HA	28:d6:60:PRO:HD3	1.79	0.40
36:5:96:G:H5'	49:m3:15:ARG:CZ	2.50	0.40
36:5:132:C:HO2'	36:5:133:U:H6	1.67	0.40
36:5:237:G:C2	36:5:238:A:C8	3.09	0.40
36:5:638:C:H2'	36:5:639:G:H8	1.86	0.40
36:5:883:A:N7	53:m7:134:GLY:HA3	2.37	0.40
36:5:977:C:O2'	36:5:978:G:H5'	2.22	0.40
36:5:1940:G:H2'	36:5:1941:C:O4'	2.21	0.40
37:7:95:A:C2	37:7:96:U:C2	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:300:ARG:HG2	54:m8:39:ARG:O	2.22	0.40
42:l5:190:ILE:HD11	42:l5:195:LEU:HD22	2.03	0.40
43:l6:155:LEU:HD23	50:m4:115:PHE:CE1	2.57	0.40
48:m1:166:LYS:HD3	48:m1:167:TYR:CE1	2.56	0.40
56:n0:155:ARG:HD3	56:n0:172:TYR:CD2	2.56	0.40
60:n4:40:PHE:CD1	60:n4:40:PHE:C	2.99	0.40
64:n8:3:SER:C	64:n8:5:PHE:H	2.29	0.40
68:o2:81:ASP:O	68:o2:84:THR:OG1	2.35	0.40
72:o6:98:ARG:HB3	72:o6:99:ARG:H	1.67	0.40
77:q1:1:MET:HE2	77:q1:5:TRP:HB2	2.04	0.40
79:q3:29:LEU:HD22	79:q3:69:TYR:CD2	2.57	0.40
83:f:109:THR:HA	83:f:110:LYS:HA	1.78	0.40
1:2:1195:C:N4	18:C6:143:ARG:HA	2.37	0.40
1:2:1417:A:O2'	18:C6:128:LYS:HE2	2.21	0.40
1:2:1475:A:H2'	1:2:1476:C:O4'	2.22	0.40
1:2:1541:G:C5	1:2:1542:G:C6	3.08	0.40
1:2:1600:A:H4'	1:2:1601:G:OP1	2.22	0.40
1:2:1666:U:C4	1:2:1736:G:C2	3.09	0.40
1:2:1769:U:H1'	16:C4:136:ARG:HG3	2.04	0.40
2:S0:177:LEU:HD23	2:S0:177:LEU:HA	1.91	0.40
6:S4:184:THR:OG1	6:S4:224:ASN:O	2.28	0.40
7:S5:135:ASP:O	7:S5:139:ASN:HB2	2.22	0.40
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	2.02	0.40
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.20	0.40
18:C6:113:ASP:CG	18:C6:115:THR:H	2.29	0.40
19:C7:5:ARG:O	19:C7:10:LYS:HE3	2.21	0.40
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.21	0.40
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.51	0.40
23:D1:12:TYR:CZ	23:D1:14:PRO:HG3	2.57	0.40
34:SR:35:SER:OG	34:SR:45:TRP:NE1	2.48	0.40
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.51	0.40
34:SR:232:TYR:OH	34:SR:265:LEU:HD12	2.21	0.40
36:1:104:G:H2'	36:1:105:C:O4'	2.22	0.40
36:1:158:G:H2'	36:1:159:A:H8	1.87	0.40
36:1:269:G:N2	36:1:295:A:OP2	2.36	0.40
36:1:709:A:H1'	64:N8:57:GLY:HA2	2.03	0.40
36:1:715:A:C8	64:N8:115:LYS:HD3	2.57	0.40
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.54	0.40
36:1:1298:C:O3'	76:Q0:113:ARG:NH1	2.54	0.40
36:1:1541:G:H2'	36:1:1542:G:O4'	2.21	0.40
36:1:1719:G:OP2	55:M9:121:HIS:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2922:G:H1'	36:1:2951:G:N3	2.36	0.40
36:1:2945:G:O2'	36:1:2948:C:OP2	2.39	0.40
36:1:3011:A:N1	36:1:3043:C:O2'	2.38	0.40
41:L4:328:ASN:HA	41:L4:329:PRO:HD2	1.98	0.40
44:L7:102:VAL:O	44:L7:105:LEU:N	2.55	0.40
47:M0:65:LEU:HD23	47:M0:65:LEU:HA	1.92	0.40
54:M8:40:THR:C	54:M8:42:ALA:N	2.77	0.40
56:N0:40:ARG:O	56:N0:43:TYR:HB3	2.22	0.40
56:N0:44:PHE:O	56:N0:47:LYS:N	2.50	0.40
58:N2:81:LYS:HD2	58:N2:90:ARG:NH1	2.36	0.40
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.56	0.40
61:N5:47:ALA:HB3	71:O5:77:PRO:HG3	2.02	0.40
62:N6:107:THR:OG1	62:N6:108:LYS:N	2.54	0.40
63:N7:60:LYS:O	63:N7:64:LYS:HG2	2.20	0.40
75:O9:3:ALA:H	75:O9:5:LYS:HZ2	1.69	0.40
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	2.03	0.40
1:6:90:C:H2'	1:6:91:G:C8	2.56	0.40
1:6:420:A:H2'	1:6:421:A:O4'	2.20	0.40
1:6:567:A:H2	1:6:583:C:O2	2.04	0.40
1:6:831:U:C6	1:6:832:U:H5	2.39	0.40
1:6:1192:C:C4	1:6:1193:A:C5	3.09	0.40
1:6:1535:U:H1'	1:6:1536:G:OP2	2.21	0.40
2:s0:80:THR:OG1	2:s0:81:PHE:N	2.55	0.40
2:s0:170:ILE:O	2:s0:174:TRP:HD1	2.03	0.40
3:s1:22:ASP:HA	3:s1:23:PRO:HD3	1.83	0.40
3:s1:135:LEU:HD23	3:s1:216:LYS:O	2.21	0.40
6:s4:93:ASP:C	6:s4:95:THR:H	2.30	0.40
7:s5:89:ILE:H	7:s5:89:ILE:HG13	1.53	0.40
8:s6:116:LYS:NZ	8:s6:117:GLY:O	2.53	0.40
9:s7:11:GLN:NE2	9:s7:13:PRO:HD2	2.36	0.40
9:s7:66:SER:C	9:s7:68:ALA:N	2.79	0.40
17:c5:72:LYS:H	17:c5:72:LYS:HG2	1.50	0.40
17:c5:80:MET:HE2	17:c5:80:MET:HB3	1.97	0.40
20:c8:28:ILE:HG13	20:c8:56:LYS:O	2.21	0.40
24:d2:34:ILE:O	24:d2:38:LEU:HG	2.22	0.40
24:d2:44:HIS:CE1	24:d2:101:TYR:CZ	3.08	0.40
32:e0:33:ARG:HB3	32:e0:33:ARG:HH11	1.87	0.40
36:5:192:C:H2'	36:5:193:C:H6	1.87	0.40
36:5:313:A:H2'	36:5:314:U:C6	2.57	0.40
36:5:736:A:C5	36:5:737:G:H1'	2.56	0.40
36:5:944:C:H2'	36:5:945:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1033:U:H2'	36:5:1034:U:H5'	2.02	0.40
36:5:1155:C:H6	36:5:1155:C:O5'	2.05	0.40
36:5:1176:C:H2'	36:5:1177:G:N2	2.36	0.40
36:5:1223:A:OP2	36:5:1285:G:N2	2.53	0.40
36:5:1435:A:H5''	36:5:1436:U:C5'	2.51	0.40
36:5:1452:A:N3	36:5:2346:C:O2'	2.53	0.40
36:5:1529:A:P	36:5:1592:G:H22	2.44	0.40
36:5:1650:G:N7	86:5:4097:OHX:N1	2.69	0.40
36:5:2209:U:H4'	36:5:2210:G:OP1	2.17	0.40
36:5:2898:G:H5''	36:5:2899:C:C5'	2.51	0.40
86:5:3915:OHX:N6	86:7:222:OHX:N6	2.69	0.40
37:7:1:G:C4	42:15:266:ALA:HA	2.57	0.40
39:12:145:LYS:HG3	39:12:157:VAL:HG23	2.02	0.40
39:12:249:SER:HB3	39:12:250:GLN:H	1.73	0.40
40:13:3:HIS:ND1	40:13:3:HIS:O	2.55	0.40
40:13:383:LEU:HD23	40:13:383:LEU:HA	1.76	0.40
44:17:93:ASN:OD1	44:17:93:ASN:N	2.52	0.40
45:18:147:LYS:HE2	45:18:147:LYS:HB3	1.93	0.40
49:m3:159:VAL:HG13	64:n8:144:VAL:HG13	2.02	0.40
54:m8:147:ARG:O	54:m8:150:VAL:HG22	2.21	0.40
55:m9:68:GLN:O	55:m9:71:ARG:HG2	2.20	0.40
59:n3:48:ARG:HG3	59:n3:48:ARG:NH1	2.22	0.40
69:o3:67:MET:CE	69:o3:87:ASN:HB2	2.51	0.40
1:2:212:U:C2	1:2:254:A:C2	3.10	0.40
1:2:238:U:H2'	1:2:239:C:C6	2.56	0.40
1:2:338:C:H1'	10:S8:5:ARG:HB3	2.02	0.40
1:2:477:A:N6	1:2:511:A:H61	2.16	0.40
1:2:850:A:C2	1:2:851:U:C2	3.10	0.40
1:2:1456:C:C5'	1:2:1457:C:H5''	2.48	0.40
1:2:1584:G:N2	1:2:1611:A:OP2	2.35	0.40
1:2:1602:C:H2'	1:2:1603:U:O4'	2.21	0.40
2:S0:17:LEU:HD23	2:S0:172:LEU:HD13	2.02	0.40
2:S0:20:ALA:HB3	2:S0:172:LEU:HD12	2.03	0.40
3:S1:145:LYS:NZ	3:S1:152:ARG:O	2.45	0.40
6:S4:14:ALA:HA	6:S4:15:PRO:HD2	1.84	0.40
7:S5:77:TYR:CD1	7:S5:87:CYS:HB2	2.57	0.40
7:S5:93:LEU:HA	7:S5:93:LEU:HD22	1.79	0.40
8:S6:84:TYR:O	8:S6:86:PRO:HD3	2.22	0.40
10:S8:117:TYR:CE1	10:S8:150:ALA:HB2	2.56	0.40
11:S9:153:GLU:O	11:S9:156:ILE:HG13	2.21	0.40
24:D2:106:THR:HB	24:D2:122:SER:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:67:ASP:C	27:D5:69:LEU:H	2.29	0.40
30:D8:29:ARG:HA	30:D8:41:VAL:HA	2.04	0.40
34:SR:249:ARG:HB3	34:SR:250:TYR:H	1.74	0.40
36:1:501:A:H4'	43:L6:61:ASN:ND2	2.37	0.40
36:1:637:C:H1'	36:1:638:C:C6	2.56	0.40
36:1:752:C:H2'	36:1:753:C:C6	2.56	0.40
36:1:891:G:H2'	36:1:892:U:O4'	2.21	0.40
36:1:2802:A:C8	78:Q2:56:PRO:HA	2.56	0.40
36:1:3102:G:O2'	36:1:3103:A:H5'	2.21	0.40
36:1:3166:C:N3	36:1:3284:G:N2	2.65	0.40
39:L2:11:GLY:C	39:L2:13:GLY:H	2.29	0.40
40:L3:188:ILE:CD1	40:L3:189:SER:H	2.34	0.40
41:L4:180:LYS:HZ3	41:L4:202:ARG:HB3	1.87	0.40
42:L5:5:LYS:HE2	86:L5:301:OHX:N2	2.35	0.40
48:M1:135:GLY:C	48:M1:137:ARG:H	2.29	0.40
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	2.02	0.40
69:O3:89:LEU:HA	69:O3:90:PRO:HD3	1.70	0.40
73:O7:28:HIS:CD2	73:O7:31:LYS:HB2	2.55	0.40
1:6:15:U:O5'	1:6:15:U:H6	2.04	0.40
1:6:198:A:O2'	1:6:199:G:H5'	2.21	0.40
1:6:220:A:H3'	1:6:832:U:H1'	2.02	0.40
1:6:526:A:C6	1:6:527:A:C5	3.10	0.40
1:6:542:A:O2'	1:6:543:C:H3'	2.22	0.40
1:6:882:U:H2'	1:6:883:C:C6	2.56	0.40
1:6:906:A:OP2	16:c4:51:ASP:HB3	2.22	0.40
1:6:1287:A:H4'	1:6:1288:G:OP1	2.20	0.40
1:6:1325:A:P	19:c7:11:ARG:HH12	2.45	0.40
2:s0:120:LEU:HD21	2:s0:144:ILE:HD11	2.03	0.40
2:s0:200:ASP:HA	2:s0:203:PHE:CD1	2.56	0.40
8:s6:67:VAL:O	8:s6:68:LEU:HB2	2.21	0.40
11:s9:14:THR:HA	11:s9:15:PRO:HD3	1.92	0.40
13:c1:77:SER:HB3	13:c1:85:VAL:HB	2.04	0.40
15:c3:15:ALA:CB	29:d7:20:LYS:HD3	2.52	0.40
18:c6:43:ILE:H	18:c6:43:ILE:HG12	1.39	0.40
22:d0:63:LEU:HB3	31:d9:34:TYR:CE1	2.57	0.40
25:d3:67:ALA:O	25:d3:68:ILE:HD13	2.22	0.40
34:sR:127:ARG:C	34:sR:129:LYS:H	2.29	0.40
34:sR:228:LYS:HE3	34:sR:228:LYS:HB2	1.92	0.40
36:5:32:U:H2'	36:5:33:G:O4'	2.21	0.40
36:5:296:A:O5'	36:5:296:A:H8	2.04	0.40
36:5:711:A:N7	36:5:712:G:H1'	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1355:A:H1'	36:5:1356:U:OP2	2.22	0.40
36:5:1478:C:H42	36:5:1875:G:H1	1.68	0.40
36:5:1566:A:H2'	36:5:1567:U:H5'	2.03	0.40
36:5:1641:U:O2'	36:5:1642:A:H3'	2.19	0.40
36:5:2374:C:N4	36:5:2941:A:N3	2.69	0.40
36:5:2526:C:C2	45:18:48:ARG:NH2	2.90	0.40
36:5:2658:G:C6	36:5:2659:G:N7	2.90	0.40
36:5:2809:C:C4	36:5:2810:C:H1'	2.56	0.40
36:5:2830:G:H1'	36:5:2861:U:C2	2.56	0.40
36:5:2908:G:OP1	86:5:3859:OHX:N1	2.54	0.40
36:5:3316:A:H5''	36:5:3318:G:N2	2.36	0.40
88:5:3403:SPS:O1	88:5:3403:SPS:H91	2.22	0.40
38:8:59:A:O2'	61:n5:61:LYS:NZ	2.52	0.40
38:8:95:G:H1'	73:o7:81:GLY:O	2.20	0.40
38:8:118:C:C2	38:8:136:G:C2	3.10	0.40
38:8:147:U:O4'	61:n5:38:LEU:HD12	2.21	0.40
39:l2:241:ARG:H	39:l2:241:ARG:HG2	1.67	0.40
40:l3:231:HIS:CD2	40:l3:270:ARG:NH2	2.89	0.40
41:l4:107:ARG:HG2	41:l4:108:LYS:N	2.37	0.40
59:n3:16:GLY:O	59:n3:18:PRO:HD3	2.21	0.40
59:n3:49:LEU:HA	59:n3:50:PRO:HD3	1.92	0.40
63:n7:122:HIS:HB2	63:n7:131:PHE:CE2	2.57	0.40
71:o5:32:LYS:O	71:o5:35:LYS:HB3	2.21	0.40
76:q0:118:THR:OG1	76:q0:120:GLN:HG3	2.22	0.40
83:f:48:LYS:HA	83:f:48:LYS:HD3	1.72	0.40
83:f:104:ASN:HB2	83:f:105:MET:SD	2.61	0.40
1:2:130:C:O2'	86:2:2041:OHX:N4	2.55	0.40
1:2:413:U:H2'	1:2:414:C:H6	1.83	0.40
1:2:513:U:H2'	1:2:514:G:C8	2.57	0.40
1:2:762:A:P	11:S9:79:ARG:HH12	2.44	0.40
1:2:811:A:N7	9:S7:111:LYS:HB2	2.36	0.40
1:2:901:G:N2	16:C4:54:GLU:OE2	2.38	0.40
1:2:1146:G:C2	1:2:1147:A:C4	3.10	0.40
1:2:1338:C:N4	1:2:1339:C:H41	2.20	0.40
1:2:1395:G:C6	1:2:1396:U:N3	2.89	0.40
2:S0:78:SER:HB3	2:S0:100:GLY:O	2.21	0.40
4:S2:140:ARG:HD3	4:S2:222:TYR:CZ	2.56	0.40
5:S3:114:ALA:HB3	5:S3:117:ARG:HB3	2.03	0.40
7:S5:157:ARG:HB2	7:S5:224:ASN:OD1	2.22	0.40
7:S5:161:ASP:OD2	30:D8:42:ARG:NH2	2.55	0.40
15:C3:40:TYR:CE2	15:C3:53:LEU:HD23	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:55:ARG:HA	15:C3:60:VAL:O	2.21	0.40
15:C3:93:LYS:HA	15:C3:150:VAL:HG21	2.04	0.40
18:C6:28:LEU:HG	18:C6:64:ASP:CG	2.47	0.40
22:D0:23:ARG:HD3	22:D0:92:ASP:OD1	2.20	0.40
36:1:268:A:C5	51:M5:12:ARG:HG2	2.56	0.40
36:1:516:A:H4'	44:L7:60:ARG:NH2	2.36	0.40
36:1:678:G:H2'	36:1:679:U:C6	2.56	0.40
36:1:1157:G:H2'	36:1:1158:A:O4'	2.21	0.40
36:1:1210:U:H2'	36:1:1211:U:H6	1.87	0.40
36:1:1536:G:C4	36:1:1537:A:C8	3.10	0.40
36:1:1603:A:P	55:M9:38:ARG:HH11	2.44	0.40
36:1:2331:C:H2'	36:1:2332:A:O4'	2.21	0.40
36:1:2654:C:N3	36:1:2754:G:N1	2.69	0.40
36:1:2656:A:C8	36:1:2658:G:C8	3.10	0.40
36:1:3020:U:H2'	36:1:3033:A:N6	2.37	0.40
38:4:69:U:H5''	38:4:70:G:OP2	2.21	0.40
38:4:87:G:OP2	71:O5:5:LYS:HE2	2.22	0.40
39:L2:83:HIS:NE2	39:L2:86:GLN:HB2	2.36	0.40
39:L2:200:ARG:O	39:L2:203:ALA:N	2.43	0.40
42:L5:5:LYS:HA	42:L5:5:LYS:HD2	1.74	0.40
44:L7:189:ILE:HG23	44:L7:190:THR:HG23	2.03	0.40
47:M0:77:THR:HG22	47:M0:82:ARG:HA	2.03	0.40
48:M1:10:ARG:HH12	48:M1:133:ARG:NE	2.20	0.40
48:M1:94:ARG:HG2	48:M1:94:ARG:H	1.58	0.40
48:M1:109:HIS:CD2	48:M1:109:HIS:H	2.40	0.40
51:M5:59:PHE:HD1	51:M5:133:ILE:HD11	1.87	0.40
52:M6:140:LYS:HD2	52:M6:140:LYS:HA	1.78	0.40
54:M8:178:ARG:HD3	54:M8:178:ARG:HA	1.77	0.40
59:N3:10:LYS:HD2	59:N3:13:ILE:HD11	2.02	0.40
64:N8:75:LEU:HB3	64:N8:118:ILE:CG2	2.52	0.40
67:O1:60:TRP:CZ3	67:O1:64:VAL:HG12	2.56	0.40
68:O2:79:VAL:O	68:O2:83:GLU:HG3	2.21	0.40
69:O3:58:GLU:HG3	69:O3:59:VAL:N	2.36	0.40
78:Q2:24:LYS:HD2	78:Q2:75:VAL:HG12	2.04	0.40
1:6:11:A:C2'	1:6:12:U:H5'	2.52	0.40
1:6:542:A:H1'	1:6:543:C:P	2.62	0.40
1:6:584:C:O3'	32:e0:15:LYS:HG3	2.21	0.40
1:6:902:G:O5'	1:6:902:G:H8	2.04	0.40
1:6:926:A:H1'	1:6:988:A:C2	2.56	0.40
1:6:1063:U:O4	86:6:2181:OHX:N3	2.55	0.40
1:6:1689:A:H8	1:6:1689:A:O5'	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1795:U:OP1	28:d6:86:VAL:HG12	2.22	0.40
3:s1:71:ALA:C	3:s1:73:LEU:N	2.79	0.40
4:s2:147:ASN:O	23:d1:4:ASP:N	2.54	0.40
4:s2:242:ILE:HD12	4:s2:242:ILE:HA	1.88	0.40
6:s4:112:HIS:NE2	6:s4:237:SER:O	2.55	0.40
6:s4:117:GLU:O	6:s4:118:GLU:HB3	2.22	0.40
9:s7:31:SER:HA	9:s7:35:LYS:CB	2.51	0.40
9:s7:114:ARG:O	9:s7:117:THR:HB	2.21	0.40
9:s7:154:LEU:HD11	9:s7:183:PHE:CD1	2.56	0.40
10:s8:44:HIS:O	10:s8:56:ARG:N	2.55	0.40
11:s9:59:LEU:O	11:s9:62:ARG:HB2	2.22	0.40
11:s9:78:ARG:HG3	11:s9:79:ARG:N	2.35	0.40
11:s9:86:LEU:HD12	11:s9:86:LEU:HA	1.90	0.40
13:c1:45:PRO:HG2	13:c1:48:ALA:HB2	2.04	0.40
15:c3:64:ARG:HD2	15:c3:70:LYS:HD2	2.02	0.40
20:c8:117:LYS:NZ	35:sM:61:ILE:HD11	2.37	0.40
21:c9:84:LYS:NZ	21:c9:86:ARG:HG2	2.35	0.40
26:d4:92:VAL:HG12	26:d4:97:ALA:O	2.22	0.40
27:d5:74:SER:HA	27:d5:77:ARG:NH2	2.36	0.40
29:d7:29:ARG:HA	29:d7:29:ARG:HD3	1.91	0.40
31:d9:31:ILE:HA	31:d9:31:ILE:HD13	1.85	0.40
33:e1:77:GLY:HA2	33:e1:78:LYS:HA	1.83	0.40
36:5:255:A:H2'	36:5:256:G:H8	1.87	0.40
36:5:288:C:O3'	51:m5:171:SER:HA	2.21	0.40
36:5:506:U:H2'	36:5:507:U:O4'	2.22	0.40
36:5:650:C:O5'	36:5:650:C:H6	2.04	0.40
36:5:1152:G:N2	36:5:1200:A:H61	2.19	0.40
36:5:2156:C:OP2	39:l2:241:ARG:NH2	2.54	0.40
36:5:2202:C:H5''	39:l2:226:SER:N	2.36	0.40
36:5:2278:C:C2	36:5:2307:G:N2	2.90	0.40
36:5:2619:G:H2'	36:5:2620:G:O4'	2.21	0.40
36:5:3223:A:C6	36:5:3263:G:C6	3.10	0.40
36:5:3275:U:N3	69:o3:60:ARG:HD2	2.37	0.40
36:5:3376:A:H2	67:o1:17:HIS:CD2	2.37	0.40
37:7:46:A:H2'	37:7:47:C:C6	2.57	0.40
38:8:76:C:H2'	38:8:77:A:O4'	2.22	0.40
41:l4:9:HIS:O	41:l4:153:SER:N	2.51	0.40
42:l5:107:ARG:NH1	42:l5:120:LYS:O	2.54	0.40
43:l6:35:VAL:O	43:l6:38:THR:OG1	2.20	0.40
45:l8:136:LEU:HD12	45:l8:162:LEU:HD22	2.02	0.40
45:l8:156:ASP:O	45:l8:183:LYS:HE3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:58:GLU:OE2	47:m0:60:LEU:HD23	2.21	0.40
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	2.04	0.40
50:m4:25:LYS:HE2	50:m4:25:LYS:HB3	1.90	0.40
55:m9:4:LEU:CA	55:m9:7:GLN:HG2	2.52	0.40
56:n0:6:GLU:HB2	56:n0:30:PHE:CE1	2.57	0.40
62:n6:5:SER:HB2	62:n6:8:VAL:HG13	2.03	0.40
62:n6:22:ALA:O	62:n6:27:ARG:NE	2.34	0.40
63:n7:76:ASN:OD1	63:n7:77:TYR:N	2.54	0.40
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.22	0.40
81:p0:79:PHE:CE1	81:p0:189:GLN:HG3	2.56	0.40
81:p0:91:GLU:CG	81:p0:92:PRO:HD2	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/251 (81%)	157 (77%)	34 (17%)	13 (6%)	1	12
2	s0	204/251 (81%)	148 (72%)	31 (15%)	25 (12%)	0	4
3	S1	212/254 (84%)	154 (73%)	38 (18%)	20 (9%)	0	6
3	s1	214/254 (84%)	169 (79%)	30 (14%)	15 (7%)	1	10
4	S2	215/253 (85%)	169 (79%)	36 (17%)	10 (5%)	2	17
4	s2	215/253 (85%)	172 (80%)	25 (12%)	18 (8%)	0	7
5	S3	221/239 (92%)	186 (84%)	24 (11%)	11 (5%)	1	15
5	s3	221/239 (92%)	172 (78%)	36 (16%)	13 (6%)	1	13
6	S4	258/260 (99%)	197 (76%)	44 (17%)	17 (7%)	1	11
6	s4	258/260 (99%)	200 (78%)	42 (16%)	16 (6%)	1	12
7	S5	204/224 (91%)	153 (75%)	35 (17%)	16 (8%)	1	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	s5	204/224 (91%)	150 (74%)	41 (20%)	13 (6%)	1	12
8	S6	224/236 (95%)	189 (84%)	23 (10%)	12 (5%)	1	14
8	s6	216/236 (92%)	176 (82%)	32 (15%)	8 (4%)	2	21
9	S7	182/189 (96%)	127 (70%)	39 (21%)	16 (9%)	0	7
9	s7	184/189 (97%)	141 (77%)	29 (16%)	14 (8%)	1	8
10	S8	184/200 (92%)	150 (82%)	25 (14%)	9 (5%)	1	16
10	s8	184/200 (92%)	151 (82%)	27 (15%)	6 (3%)	3	23
11	S9	183/196 (93%)	148 (81%)	27 (15%)	8 (4%)	2	17
11	s9	183/196 (93%)	141 (77%)	33 (18%)	9 (5%)	1	16
12	C0	94/105 (90%)	69 (73%)	16 (17%)	9 (10%)	0	6
12	c0	92/105 (88%)	63 (68%)	14 (15%)	15 (16%)	0	2
13	C1	153/155 (99%)	122 (80%)	21 (14%)	10 (6%)	1	11
13	c1	144/155 (93%)	120 (83%)	19 (13%)	5 (4%)	3	23
14	C2	122/142 (86%)	71 (58%)	33 (27%)	18 (15%)	0	3
14	c2	122/142 (86%)	78 (64%)	30 (25%)	14 (12%)	0	5
15	C3	148/150 (99%)	120 (81%)	17 (12%)	11 (7%)	1	9
15	c3	148/150 (99%)	116 (78%)	20 (14%)	12 (8%)	1	8
16	C4	125/136 (92%)	89 (71%)	24 (19%)	12 (10%)	0	6
16	c4	126/136 (93%)	96 (76%)	16 (13%)	14 (11%)	0	5
17	C5	122/141 (86%)	99 (81%)	13 (11%)	10 (8%)	0	8
17	c5	133/141 (94%)	86 (65%)	38 (29%)	9 (7%)	1	10
18	C6	139/142 (98%)	118 (85%)	13 (9%)	8 (6%)	1	13
18	c6	140/142 (99%)	118 (84%)	13 (9%)	9 (6%)	1	12
19	C7	116/136 (85%)	90 (78%)	18 (16%)	8 (7%)	1	10
19	c7	113/136 (83%)	86 (76%)	18 (16%)	9 (8%)	1	8
20	C8	143/145 (99%)	111 (78%)	25 (18%)	7 (5%)	1	16
20	c8	143/145 (99%)	117 (82%)	19 (13%)	7 (5%)	1	16
21	C9	141/143 (99%)	116 (82%)	18 (13%)	7 (5%)	1	15
21	c9	141/143 (99%)	116 (82%)	21 (15%)	4 (3%)	4	26
22	D0	105/120 (88%)	89 (85%)	12 (11%)	4 (4%)	2	20
22	d0	108/120 (90%)	90 (83%)	13 (12%)	5 (5%)	2	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	D1	85/87 (98%)	64 (75%)	8 (9%)	13 (15%)	0	2
23	d1	85/87 (98%)	61 (72%)	17 (20%)	7 (8%)	0	8
24	D2	127/129 (98%)	106 (84%)	16 (13%)	5 (4%)	2	20
24	d2	127/129 (98%)	107 (84%)	17 (13%)	3 (2%)	4	29
25	D3	142/144 (99%)	104 (73%)	22 (16%)	16 (11%)	0	5
25	d3	142/144 (99%)	117 (82%)	24 (17%)	1 (1%)	18	51
26	D4	132/134 (98%)	106 (80%)	16 (12%)	10 (8%)	1	8
26	d4	132/134 (98%)	101 (76%)	20 (15%)	11 (8%)	0	8
27	D5	68/107 (64%)	50 (74%)	12 (18%)	6 (9%)	0	7
27	d5	67/107 (63%)	49 (73%)	16 (24%)	2 (3%)	3	25
28	D6	95/97 (98%)	57 (60%)	24 (25%)	14 (15%)	0	3
28	d6	95/97 (98%)	69 (73%)	14 (15%)	12 (13%)	0	4
29	D7	79/81 (98%)	69 (87%)	7 (9%)	3 (4%)	2	20
29	d7	79/81 (98%)	57 (72%)	16 (20%)	6 (8%)	1	8
30	D8	61/66 (92%)	47 (77%)	10 (16%)	4 (7%)	1	11
30	d8	61/66 (92%)	41 (67%)	11 (18%)	9 (15%)	0	3
31	D9	51/55 (93%)	37 (72%)	11 (22%)	3 (6%)	1	13
31	d9	51/55 (93%)	40 (78%)	8 (16%)	3 (6%)	1	13
32	E0	58/63 (92%)	41 (71%)	15 (26%)	2 (3%)	3	23
32	e0	60/63 (95%)	38 (63%)	15 (25%)	7 (12%)	0	5
33	E1	69/76 (91%)	38 (55%)	19 (28%)	12 (17%)	0	2
33	e1	74/76 (97%)	39 (53%)	12 (16%)	23 (31%)	0	0
34	SR	316/318 (99%)	260 (82%)	43 (14%)	13 (4%)	2	19
34	sR	316/318 (99%)	264 (84%)	38 (12%)	14 (4%)	2	17
35	SM	155/273 (57%)	107 (69%)	32 (21%)	16 (10%)	0	6
35	sM	98/273 (36%)	66 (67%)	23 (24%)	9 (9%)	0	7
39	L2	250/253 (99%)	217 (87%)	23 (9%)	10 (4%)	2	19
39	l2	250/253 (99%)	204 (82%)	33 (13%)	13 (5%)	1	14
40	L3	384/386 (100%)	315 (82%)	46 (12%)	23 (6%)	1	12
40	l3	384/386 (100%)	337 (88%)	35 (9%)	12 (3%)	3	25
41	L4	359/361 (99%)	285 (79%)	52 (14%)	22 (6%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	l4	359/361 (99%)	288 (80%)	53 (15%)	18 (5%)	1	15
42	L5	294/296 (99%)	229 (78%)	42 (14%)	23 (8%)	1	8
42	l5	292/296 (99%)	250 (86%)	35 (12%)	7 (2%)	4	29
43	L6	152/175 (87%)	132 (87%)	17 (11%)	3 (2%)	6	32
43	l6	153/175 (87%)	123 (80%)	25 (16%)	5 (3%)	3	23
44	L7	220/243 (90%)	173 (79%)	39 (18%)	8 (4%)	2	22
44	l7	221/243 (91%)	193 (87%)	23 (10%)	5 (2%)	5	30
45	L8	231/255 (91%)	184 (80%)	38 (16%)	9 (4%)	2	20
45	l8	229/255 (90%)	167 (73%)	48 (21%)	14 (6%)	1	12
46	L9	189/191 (99%)	159 (84%)	19 (10%)	11 (6%)	1	13
46	l9	189/191 (99%)	163 (86%)	21 (11%)	5 (3%)	4	27
47	M0	207/220 (94%)	167 (81%)	31 (15%)	9 (4%)	2	18
47	m0	209/220 (95%)	165 (79%)	33 (16%)	11 (5%)	1	14
48	M1	167/173 (96%)	134 (80%)	19 (11%)	14 (8%)	0	7
48	m1	167/173 (96%)	137 (82%)	19 (11%)	11 (7%)	1	11
49	M3	191/198 (96%)	153 (80%)	27 (14%)	11 (6%)	1	13
49	m3	192/198 (97%)	153 (80%)	24 (12%)	15 (8%)	1	8
50	M4	134/137 (98%)	114 (85%)	15 (11%)	5 (4%)	2	21
50	m4	135/137 (98%)	115 (85%)	16 (12%)	4 (3%)	3	25
51	M5	201/203 (99%)	176 (88%)	19 (10%)	6 (3%)	3	25
51	m5	201/203 (99%)	174 (87%)	23 (11%)	4 (2%)	6	32
52	M6	195/198 (98%)	173 (89%)	16 (8%)	6 (3%)	3	25
52	m6	195/198 (98%)	182 (93%)	9 (5%)	4 (2%)	5	31
53	M7	181/183 (99%)	150 (83%)	25 (14%)	6 (3%)	3	23
53	m7	153/183 (84%)	127 (83%)	25 (16%)	1 (1%)	18	51
54	M8	183/185 (99%)	151 (82%)	24 (13%)	8 (4%)	2	17
54	m8	183/185 (99%)	154 (84%)	20 (11%)	9 (5%)	1	16
55	M9	186/188 (99%)	160 (86%)	23 (12%)	3 (2%)	7	36
55	m9	186/188 (99%)	166 (89%)	13 (7%)	7 (4%)	2	20
56	N0	170/172 (99%)	155 (91%)	12 (7%)	3 (2%)	6	34
56	n0	170/172 (99%)	152 (89%)	15 (9%)	3 (2%)	6	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
57	N1	157/159 (99%)	137 (87%)	15 (10%)	5 (3%)	3	24
57	n1	157/159 (99%)	131 (83%)	24 (15%)	2 (1%)	9	39
58	N2	98/120 (82%)	72 (74%)	23 (24%)	3 (3%)	3	25
58	n2	96/120 (80%)	80 (83%)	11 (12%)	5 (5%)	1	14
59	N3	134/136 (98%)	117 (87%)	15 (11%)	2 (2%)	8	37
59	n3	134/136 (98%)	122 (91%)	7 (5%)	5 (4%)	2	21
60	N4	96/155 (62%)	68 (71%)	18 (19%)	10 (10%)	0	6
60	n4	133/155 (86%)	102 (77%)	22 (16%)	9 (7%)	1	10
61	N5	119/141 (84%)	99 (83%)	14 (12%)	6 (5%)	1	15
61	n5	118/141 (84%)	94 (80%)	19 (16%)	5 (4%)	2	19
62	N6	124/126 (98%)	107 (86%)	13 (10%)	4 (3%)	3	24
62	n6	124/126 (98%)	102 (82%)	21 (17%)	1 (1%)	16	49
63	N7	133/135 (98%)	114 (86%)	10 (8%)	9 (7%)	1	10
63	n7	133/135 (98%)	112 (84%)	12 (9%)	9 (7%)	1	10
64	N8	146/148 (99%)	118 (81%)	22 (15%)	6 (4%)	2	19
64	n8	146/148 (99%)	111 (76%)	24 (16%)	11 (8%)	1	9
65	N9	56/58 (97%)	41 (73%)	12 (21%)	3 (5%)	1	14
65	n9	56/58 (97%)	39 (70%)	12 (21%)	5 (9%)	0	7
66	O0	95/104 (91%)	80 (84%)	11 (12%)	4 (4%)	2	19
66	o0	98/104 (94%)	84 (86%)	11 (11%)	3 (3%)	3	25
67	O1	107/112 (96%)	89 (83%)	8 (8%)	10 (9%)	0	7
67	o1	107/112 (96%)	83 (78%)	18 (17%)	6 (6%)	1	13
68	O2	125/129 (97%)	104 (83%)	18 (14%)	3 (2%)	4	29
68	o2	125/129 (97%)	103 (82%)	16 (13%)	6 (5%)	2	16
69	O3	104/106 (98%)	96 (92%)	7 (7%)	1 (1%)	12	44
69	o3	104/106 (98%)	92 (88%)	9 (9%)	3 (3%)	3	26
70	O4	110/121 (91%)	88 (80%)	17 (16%)	5 (4%)	2	17
70	o4	110/121 (91%)	98 (89%)	11 (10%)	1 (1%)	14	46
71	O5	117/119 (98%)	93 (80%)	22 (19%)	2 (2%)	7	35
71	o5	117/119 (98%)	98 (84%)	14 (12%)	5 (4%)	2	18
72	O6	97/99 (98%)	78 (80%)	13 (13%)	6 (6%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
72	o6	97/99 (98%)	78 (80%)	14 (14%)	5 (5%)	1	14
73	O7	85/87 (98%)	64 (75%)	16 (19%)	5 (6%)	1	13
73	o7	85/87 (98%)	72 (85%)	11 (13%)	2 (2%)	4	29
74	O8	75/77 (97%)	62 (83%)	9 (12%)	4 (5%)	1	14
74	o8	75/77 (97%)	60 (80%)	12 (16%)	3 (4%)	2	19
75	O9	48/50 (96%)	40 (83%)	7 (15%)	1 (2%)	5	31
75	o9	48/50 (96%)	44 (92%)	4 (8%)	0	100	100
76	Q0	50/52 (96%)	42 (84%)	7 (14%)	1 (2%)	6	32
76	q0	50/52 (96%)	46 (92%)	2 (4%)	2 (4%)	2	19
77	Q1	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
77	q1	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
78	Q2	103/105 (98%)	80 (78%)	17 (16%)	6 (6%)	1	13
78	q2	103/105 (98%)	95 (92%)	7 (7%)	1 (1%)	12	44
79	Q3	89/91 (98%)	71 (80%)	10 (11%)	8 (9%)	0	7
79	q3	89/91 (98%)	74 (83%)	12 (14%)	3 (3%)	3	23
80	m2	144/165 (87%)	67 (46%)	48 (33%)	29 (20%)	0	1
81	p0	139/311 (45%)	110 (79%)	20 (14%)	9 (6%)	1	11
82	p1	45/106 (42%)	26 (58%)	17 (38%)	2 (4%)	2	17
82	p2	44/106 (42%)	33 (75%)	6 (14%)	5 (11%)	0	5
83	f	145/157 (92%)	97 (67%)	34 (23%)	14 (10%)	0	6
All	All	22711/24683 (92%)	18197 (80%)	3231 (14%)	1283 (6%)	1	13

All (1283) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	158	VAL
2	S0	169	SER
2	S0	191	ARG
3	S1	82	ARG
3	S1	132	ASP
3	S1	206	PRO
4	S2	48	GLY
5	S3	62	ASN
5	S3	211	PRO

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Mol	Chain	Res	Type
5	S3	220	PRO
6	S4	104	ASP
7	S5	39	GLU
7	S5	43	PHE
7	S5	153	GLY
8	S6	149	LYS
8	S6	153	VAL
8	S6	154	ARG
8	S6	225	GLU
9	S7	29	ASN
9	S7	31	SER
9	S7	64	VAL
9	S7	74	GLN
9	S7	155	ASP
10	S8	149	SER
11	S9	93	LEU
11	S9	98	ALA
11	S9	134	ILE
12	C0	60	SER
12	C0	61	TRP
12	C0	87	VAL
12	C0	88	PRO
13	C1	3	THR
13	C1	7	VAL
13	C1	40	LEU
13	C1	154	ALA
14	C2	22	VAL
14	C2	91	VAL
15	C3	12	SER
15	C3	68	GLY
15	C3	138	ASN
15	C3	149	LEU
16	C4	42	VAL
17	C5	54	ALA
17	C5	125	PRO
17	C5	126	VAL
18	C6	41	PRO
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
20	C8	14	ILE
20	C8	82	PRO

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Mol	Chain	Res	Type
20	C8	92	ILE
21	C9	53	TRP
21	C9	69	LYS
21	C9	116	ILE
23	D1	7	GLN
23	D1	82	VAL
25	D3	3	LYS
25	D3	92	CYS
25	D3	138	GLU
27	D5	93	SER
28	D6	82	ARG
28	D6	84	VAL
28	D6	86	VAL
32	E0	47	VAL
33	E1	84	VAL
33	E1	94	LYS
33	E1	98	VAL
34	SR	318	ALA
35	SM	42	ALA
35	SM	47	ALA
35	SM	52	PRO
35	SM	167	PRO
35	SM	172	VAL
39	L2	98	VAL
39	L2	115	ASN
39	L2	141	PRO
40	L3	3	HIS
40	L3	4	ARG
40	L3	69	LYS
40	L3	139	GLN
40	L3	187	SER
40	L3	347	SER
41	L4	4	PRO
41	L4	131	VAL
41	L4	175	HIS
41	L4	270	SER
41	L4	311	HIS
41	L4	339	LEU
42	L5	85	ARG
42	L5	178	ASN
42	L5	228	ALA
42	L5	233	ALA

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Mol	Chain	Res	Type
42	L5	234	ASP
42	L5	296	GLN
43	L6	97	ASN
44	L7	25	GLN
44	L7	163	LEU
45	L8	25	PRO
45	L8	31	PRO
46	L9	50	ASN
46	L9	169	ASN
48	M1	11	ASP
48	M1	115	LYS
48	M1	165	GLN
49	M3	129	ASN
50	M4	9	ALA
50	M4	36	VAL
51	M5	74	PRO
51	M5	75	VAL
51	M5	94	TYR
52	M6	66	LYS
52	M6	110	PRO
52	M6	111	PRO
56	N0	167	ARG
60	N4	8	PHE
60	N4	64	THR
60	N4	81	PRO
61	N5	44	PRO
61	N5	50	ALA
62	N6	37	LYS
63	N7	17	ARG
63	N7	35	SER
63	N7	125	GLY
67	O1	7	VAL
67	O1	84	ASP
68	O2	27	ARG
70	O4	10	ARG
73	O7	59	THR
74	O8	33	LYS
75	O9	4	GLN
76	Q0	78	ILE
78	Q2	30	ALA
78	Q2	34	SER
78	Q2	100	LYS

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Mol	Chain	Res	Type
79	Q3	58	SER
2	s0	4	PRO
2	s0	111	ILE
2	s0	158	VAL
2	s0	164	ASN
2	s0	189	VAL
2	s0	206	ASP
3	s1	106	THR
3	s1	132	ASP
4	s2	92	ALA
4	s2	164	SER
4	s2	176	SER
4	s2	248	SER
5	s3	61	GLU
5	s3	216	PRO
5	s3	220	PRO
6	s4	53	LYS
6	s4	104	ASP
6	s4	196	VAL
7	s5	28	PRO
7	s5	184	PHE
8	s6	122	GLU
8	s6	173	PRO
8	s6	174	LYS
9	s7	63	PRO
9	s7	64	VAL
9	s7	66	SER
9	s7	74	GLN
9	s7	131	PHE
10	s8	153	GLU
11	s9	118	LEU
11	s9	144	PRO
12	c0	32	HIS
12	c0	83	PRO
12	c0	88	PRO
12	c0	97	PRO
13	c1	61	THR
15	c3	12	SER
15	c3	18	TYR
15	c3	66	ILE
15	c3	87	ASP
16	c4	126	THR

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Mol	Chain	Res	Type
16	c4	132	ARG
17	c5	11	VAL
17	c5	51	SER
17	c5	52	LYS
17	c5	125	PRO
18	c6	116	LEU
19	c7	99	VAL
20	c8	14	ILE
23	d1	4	ASP
23	d1	6	GLY
24	d2	68	ARG
26	d4	30	PRO
26	d4	32	ARG
29	d7	12	ALA
29	d7	20	LYS
30	d8	32	PHE
30	d8	59	SER
31	d9	6	VAL
31	d9	7	TRP
32	e0	43	ARG
32	e0	47	VAL
33	e1	83	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	103	LEU
33	e1	110	ALA
34	sR	4	ASN
34	sR	160	GLU
35	sM	50	ASN
35	sM	120	GLU
35	sM	172	VAL
39	l2	144	ASN
39	l2	212	GLY
39	l2	238	ILE
40	l3	140	ASP
40	l3	143	GLY
40	l3	155	ALA
41	l4	14	GLU
41	l4	25	VAL
41	l4	142	VAL
41	l4	145	ILE

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Mol	Chain	Res	Type
41	l4	301	PRO
41	l4	313	LEU
41	l4	353	ALA
42	l5	178	ASN
42	l5	258	LYS
43	l6	98	VAL
44	l7	193	PRO
44	l7	229	PHE
45	l8	25	PRO
45	l8	34	PHE
45	l8	133	LYS
46	l9	62	ARG
47	m0	74	LYS
48	m1	8	PRO
80	m2	11	PRO
80	m2	15	PRO
80	m2	18	VAL
80	m2	87	VAL
80	m2	88	PRO
80	m2	101	PRO
80	m2	102	PRO
80	m2	121	GLU
80	m2	123	ILE
49	m3	47	ALA
49	m3	93	ILE
49	m3	100	ARG
49	m3	101	ARG
49	m3	134	GLU
49	m3	150	PRO
49	m3	162	ASN
51	m5	76	PRO
54	m8	99	THR
55	m9	112	ALA
58	n2	44	GLU
59	n3	42	SER
61	n5	38	LEU
61	n5	44	PRO
61	n5	45	LYS
61	n5	55	ASN
62	n6	84	LYS
63	n7	17	ARG
64	n8	76	ASP

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Mol	Chain	Res	Type
65	n9	21	ILE
65	n9	23	LYS
65	n9	24	PRO
66	o0	38	LYS
67	o1	5	LYS
67	o1	45	GLY
68	o2	6	HIS
69	o3	60	ARG
72	o6	4	LYS
72	o6	98	ARG
73	o7	87	SER
76	q0	78	ILE
78	q2	17	CYS
81	p0	93	LEU
82	p1	35	VAL
82	p2	36	PRO
83	f	18	THR
83	f	64	ILE
83	f	109	THR
83	f	111	ASP
2	S0	39	ASN
2	S0	111	ILE
2	S0	190	ASP
3	S1	21	VAL
3	S1	37	THR
3	S1	63	GLY
3	S1	158	SER
3	S1	176	VAL
3	S1	209	ASN
4	S2	163	GLY
4	S2	182	PRO
5	S3	93	ASP
5	S3	218	LEU
6	S4	11	ARG
6	S4	12	LEU
6	S4	195	ILE
6	S4	200	ARG
7	S5	26	ALA
7	S5	47	SER
7	S5	58	LEU
7	S5	63	GLN
7	S5	71	ALA

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Mol	Chain	Res	Type
7	S5	150	GLY
8	S6	70	PRO
8	S6	122	GLU
8	S6	138	ALA
8	S6	152	ASP
8	S6	165	GLY
8	S6	173	PRO
9	S7	32	PRO
9	S7	36	ALA
9	S7	186	PRO
10	S8	52	ASN
10	S8	152	ILE
11	S9	6	ARG
11	S9	166	GLY
12	C0	30	ALA
12	C0	92	ILE
12	C0	93	GLN
13	C1	6	THR
13	C1	30	ARG
14	C2	69	ALA
14	C2	107	ASP
14	C2	126	TRP
14	C2	127	GLY
15	C3	22	ALA
15	C3	148	ALA
16	C4	48	VAL
16	C4	114	ARG
17	C5	11	VAL
17	C5	48	GLY
17	C5	52	LYS
18	C6	32	ASN
18	C6	39	VAL
18	C6	97	VAL
19	C7	115	LEU
19	C7	124	VAL
20	C8	103	ASN
22	D0	96	PRO
23	D1	4	ASP
23	D1	15	ARG
23	D1	44	ARG
23	D1	78	LEU
25	D3	11	SER

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Mol	Chain	Res	Type
25	D3	112	LYS
25	D3	114	LYS
25	D3	137	LYS
26	D4	4	ALA
26	D4	35	VAL
26	D4	47	VAL
27	D5	42	LEU
27	D5	71	ILE
28	D6	5	ARG
28	D6	35	ALA
28	D6	36	ILE
28	D6	45	VAL
28	D6	46	GLU
28	D6	63	ALA
33	E1	118	ARG
34	SR	98	GLU
34	SR	146	GLY
34	SR	238	ASP
35	SM	69	ARG
35	SM	154	TYR
39	L2	13	GLY
39	L2	143	GLU
39	L2	250	GLN
40	L3	138	ALA
40	L3	155	ALA
40	L3	170	PRO
40	L3	171	LEU
40	L3	175	LYS
40	L3	221	THR
40	L3	351	LEU
40	L3	385	LYS
41	L4	14	GLU
41	L4	15	ALA
41	L4	265	GLU
41	L4	292	SER
41	L4	309	ARG
41	L4	313	LEU
41	L4	317	PRO
42	L5	148	ILE
42	L5	153	THR
42	L5	202	GLY
43	L6	98	VAL

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Mol	Chain	Res	Type
44	L7	55	TYR
44	L7	159	GLN
45	L8	36	ILE
45	L8	39	ALA
45	L8	76	ALA
45	L8	157	VAL
45	L8	190	VAL
46	L9	80	THR
46	L9	139	ASN
47	M0	78	THR
47	M0	117	GLY
47	M0	189	GLU
47	M0	194	GLY
47	M0	207	GLU
48	M1	8	PRO
48	M1	12	LEU
48	M1	94	ARG
48	M1	95	ASN
48	M1	114	ILE
49	M3	47	ALA
49	M3	67	ARG
49	M3	136	GLU
49	M3	141	ALA
49	M3	166	ALA
51	M5	81	TYR
51	M5	158	HIS
52	M6	16	VAL
53	M7	36	ILE
53	M7	157	VAL
53	M7	159	LYS
54	M8	91	ALA
55	M9	130	ASN
56	N0	130	GLU
56	N0	154	HIS
57	N1	22	HIS
57	N1	124	VAL
57	N1	159	PHE
58	N2	11	ILE
58	N2	51	GLY
59	N3	134	GLY
60	N4	76	VAL
60	N4	97	LYS

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Mol	Chain	Res	Type
61	N5	45	LYS
63	N7	4	PHE
63	N7	16	GLY
63	N7	30	ASP
64	N8	27	LYS
64	N8	66	ALA
64	N8	97	GLU
66	O0	27	TYR
66	O0	96	GLY
67	O1	111	GLU
71	O5	119	LYS
74	O8	37	PRO
74	O8	49	SER
79	Q3	3	LYS
79	Q3	9	GLY
79	Q3	59	CYS
2	s0	30	GLN
2	s0	44	GLY
2	s0	68	PRO
2	s0	94	GLY
2	s0	95	ALA
2	s0	110	TYR
3	s1	72	ASP
3	s1	93	GLY
3	s1	200	ALA
3	s1	206	PRO
4	s2	106	ASP
4	s2	149	GLY
5	s3	203	PRO
5	s3	217	ILE
6	s4	194	THR
7	s5	36	ALA
7	s5	43	PHE
8	s6	25	ARG
9	s7	67	LEU
9	s7	73	VAL
10	s8	122	GLY
11	s9	169	PRO
12	c0	23	ALA
12	c0	80	LEU
12	c0	92	ILE
13	c1	6	THR

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Mol	Chain	Res	Type
13	c1	7	VAL
13	c1	55	ASP
14	c2	63	VAL
15	c3	3	ARG
15	c3	108	ASP
16	c4	48	VAL
16	c4	90	ARG
16	c4	124	ASP
17	c5	17	TYR
18	c6	39	VAL
19	c7	88	VAL
21	c9	26	GLY
21	c9	33	TYR
22	d0	96	PRO
23	d1	43	GLY
24	d2	78	ARG
25	d3	46	SER
26	d4	33	ALA
26	d4	35	VAL
26	d4	54	ALA
26	d4	121	THR
27	d5	103	ARG
28	d6	28	LYS
28	d6	63	ALA
29	d7	24	LEU
30	d8	16	LEU
30	d8	33	LEU
30	d8	61	ARG
32	e0	51	ASN
33	e1	79	LYS
33	e1	84	VAL
33	e1	102	VAL
33	e1	105	TYR
33	e1	127	GLY
34	sR	96	THR
34	sR	163	ASP
34	sR	226	ALA
34	sR	271	VAL
35	sM	31	SER
35	sM	47	ALA
39	l2	24	GLN
39	l2	142	ASP

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Mol	Chain	Res	Type
39	l2	194	ASN
39	l2	216	HIS
40	l3	129	ALA
40	l3	139	GLN
40	l3	187	SER
40	l3	258	ALA
40	l3	347	SER
41	l4	15	ALA
41	l4	43	ASN
41	l4	144	LYS
42	l5	127	GLY
42	l5	260	PHE
42	l5	296	GLN
43	l6	140	VAL
44	l7	178	ILE
45	l8	79	GLN
45	l8	121	SER
45	l8	122	LYS
45	l8	203	VAL
45	l8	239	GLY
46	l9	144	ILE
46	l9	167	VAL
47	m0	3	ARG
47	m0	82	ARG
47	m0	204	GLY
48	m1	94	ARG
48	m1	165	GLN
80	m2	22	TYR
80	m2	30	VAL
80	m2	67	LYS
80	m2	97	ALA
80	m2	125	ILE
80	m2	148	THR
50	m4	41	GLN
50	m4	136	ALA
51	m5	183	THR
51	m5	184	LYS
54	m8	112	ALA
54	m8	113	LYS
54	m8	147	ARG
55	m9	131	ALA
56	n0	45	LEU

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Mol	Chain	Res	Type
58	n2	50	LEU
58	n2	51	GLY
60	n4	63	ILE
60	n4	75	THR
60	n4	76	VAL
60	n4	133	THR
63	n7	134	LEU
64	n8	24	LYS
64	n8	65	GLN
64	n8	67	HIS
65	n9	39	PHE
66	o0	46	ALA
67	o1	82	GLU
67	o1	84	ASP
68	o2	62	LYS
68	o2	125	ARG
69	o3	59	VAL
71	o5	37	SER
72	o6	20	MET
81	p0	68	SER
82	p2	16	ASP
82	p2	17	SER
2	S0	30	GLN
3	S1	26	ARG
3	S1	48	VAL
3	S1	54	LEU
3	S1	58	SER
3	S1	62	LYS
3	S1	221	PRO
4	S2	35	TRP
4	S2	136	VAL
5	S3	44	THR
5	S3	216	PRO
5	S3	217	ILE
6	S4	120	SER
6	S4	175	PHE
6	S4	204	GLY
7	S5	50	GLU
7	S5	99	MET
8	S6	148	SER
9	S7	110	GLN
9	S7	112	ARG

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Mol	Chain	Res	Type
9	S7	131	PHE
10	S8	10	LYS
10	S8	19	ALA
11	S9	18	PRO
11	S9	167	ALA
12	C0	64	TYR
13	C1	4	GLU
13	C1	55	ASP
13	C1	146	ALA
14	C2	93	ASP
14	C2	101	ALA
14	C2	106	ILE
14	C2	111	ASN
14	C2	125	ASN
14	C2	131	ASP
15	C3	3	ARG
15	C3	28	LEU
15	C3	137	PRO
16	C4	12	GLN
16	C4	50	ALA
16	C4	75	GLY
17	C5	69	GLU
19	C7	101	ASN
20	C8	91	ASP
21	C9	28	LEU
22	D0	17	GLN
22	D0	73	GLY
23	D1	10	GLU
23	D1	42	GLU
24	D2	83	ILE
25	D3	41	SER
25	D3	110	LYS
25	D3	139	LYS
26	D4	5	VAL
26	D4	54	ALA
27	D5	39	ALA
27	D5	43	ASP
27	D5	94	LYS
28	D6	8	ASN
28	D6	58	VAL
28	D6	97	PRO
29	D7	76	GLY

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Mol	Chain	Res	Type
31	D9	11	PRO
31	D9	20	GLN
33	E1	102	VAL
33	E1	109	ASP
34	SR	49	GLY
34	SR	163	ASP
35	SM	68	ARG
39	L2	125	ALA
39	L2	251	LYS
40	L3	63	PRO
40	L3	174	LYS
40	L3	258	ALA
40	L3	302	LYS
40	L3	378	ALA
40	L3	386	ASP
41	L4	90	PHE
41	L4	140	HIS
42	L5	72	ASP
42	L5	93	THR
42	L5	111	GLN
42	L5	163	LEU
42	L5	253	PHE
42	L5	259	LYS
44	L7	91	GLY
45	L8	79	GLN
46	L9	40	HIS
46	L9	49	ASN
46	L9	79	ILE
46	L9	110	LYS
46	L9	190	ASP
47	M0	82	ARG
48	M1	117	ASP
48	M1	152	HIS
49	M3	130	GLY
49	M3	165	SER
49	M3	176	GLU
50	M4	113	THR
52	M6	89	SER
53	M7	109	ALA
54	M8	41	ASP
54	M8	97	PRO
54	M8	99	THR

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Mol	Chain	Res	Type
55	M9	53	LYS
57	N1	122	GLN
57	N1	146	ASN
58	N2	27	VAL
60	N4	9	SER
60	N4	70	LYS
60	N4	86	SER
61	N5	36	LYS
61	N5	117	ASN
62	N6	125	LYS
63	N7	102	GLU
66	O0	53	LYS
67	O1	21	HIS
67	O1	99	ALA
67	O1	102	LYS
68	O2	62	LYS
69	O3	59	VAL
71	O5	35	LYS
72	O6	21	THR
72	O6	33	ALA
72	O6	64	SER
72	O6	98	ARG
72	O6	99	ARG
78	Q2	95	GLY
2	s0	10	THR
2	s0	65	ALA
2	s0	194	PRO
2	s0	205	ARG
3	s1	60	ALA
3	s1	129	THR
3	s1	147	ALA
3	s1	209	ASN
3	s1	224	ASP
4	s2	88	LYS
4	s2	163	GLY
4	s2	182	PRO
5	s3	76	ARG
5	s3	93	ASP
5	s3	219	ALA
6	s4	51	ARG
6	s4	135	GLY
6	s4	245	LYS

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Mol	Chain	Res	Type
7	s5	74	ALA
7	s5	176	THR
8	s6	70	PRO
8	s6	126	ASP
8	s6	138	ALA
9	s7	10	SER
9	s7	30	SER
11	s9	88	GLU
11	s9	147	MET
12	c0	30	ALA
12	c0	31	LYS
12	c0	82	LEU
12	c0	95	ARG
14	c2	39	ASP
14	c2	54	ARG
15	c3	29	SER
15	c3	139	TRP
15	c3	140	LYS
16	c4	11	SER
16	c4	50	ALA
16	c4	108	SER
16	c4	131	GLY
17	c5	80	MET
18	c6	3	ALA
18	c6	142	TYR
19	c7	63	LYS
19	c7	86	PRO
19	c7	116	LYS
20	c8	55	HIS
20	c8	61	LEU
20	c8	107	SER
21	c9	29	GLU
22	d0	49	ASN
22	d0	52	LYS
22	d0	119	ALA
23	d1	15	ARG
23	d1	42	GLU
26	d4	58	PHE
28	d6	62	TYR
28	d6	94	ASN
29	d7	41	LEU
29	d7	59	CYS

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Mol	Chain	Res	Type
30	d8	60	GLU
30	d8	62	GLU
31	d9	11	PRO
33	e1	85	TYR
33	e1	100	LEU
33	e1	111	GLU
33	e1	131	PHE
33	e1	136	LYS
33	e1	146	SER
34	sR	15	GLY
34	sR	63	GLY
34	sR	105	GLY
35	sM	168	GLU
39	l2	69	TYR
39	l2	80	GLU
41	l4	90	PHE
41	l4	233	LEU
41	l4	311	HIS
41	l4	345	GLU
43	l6	10	TYR
43	l6	138	GLN
44	l7	191	VAL
44	l7	228	SER
45	l8	39	ALA
45	l8	112	GLU
45	l8	237	ILE
47	m0	25	ALA
47	m0	151	GLY
47	m0	220	GLN
48	m1	95	ASN
80	m2	10	PRO
80	m2	58	ASP
80	m2	89	SER
80	m2	119	LEU
49	m3	76	THR
49	m3	129	ASN
49	m3	133	PRO
49	m3	135	ALA
50	m4	60	LEU
50	m4	135	LEU
52	m6	12	LYS
54	m8	8	LYS

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Mol	Chain	Res	Type
54	m8	84	VAL
55	m9	35	ALA
55	m9	36	ASN
55	m9	156	ASN
56	n0	130	GLU
57	n1	117	ALA
59	n3	68	GLU
60	n4	6	ASP
61	n5	47	ALA
63	n7	91	ALA
64	n8	17	ALA
64	n8	48	TYR
64	n8	66	ALA
67	o1	99	ALA
69	o3	90	PRO
70	o4	82	ALA
71	o5	81	ARG
71	o5	110	ALA
74	o8	35	GLY
79	q3	51	ALA
81	p0	21	GLU
81	p0	33	VAL
81	p0	94	THR
82	p1	16	ASP
83	f	15	SER
83	f	16	SER
83	f	17	ALA
2	S0	185	ARG
3	S1	207	LEU
4	S2	145	GLY
4	S2	150	GLN
5	S3	196	ARG
6	S4	22	LYS
6	S4	23	LEU
6	S4	194	THR
6	S4	245	LYS
7	S5	31	GLU
7	S5	45	LYS
7	S5	51	VAL
7	S5	64	VAL
7	S5	65	ARG
8	S6	146	GLY

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Mol	Chain	Res	Type
9	S7	98	ILE
9	S7	111	LYS
9	S7	156	SER
10	S8	120	THR
14	C2	87	PRO
15	C3	19	SER
16	C4	40	ALA
17	C5	80	MET
17	C5	101	ALA
18	C6	40	GLU
18	C6	142	TYR
19	C7	84	TYR
19	C7	87	GLU
21	C9	29	GLU
21	C9	50	ALA
21	C9	119	LYS
22	D0	55	PRO
24	D2	30	SER
24	D2	66	ASN
25	D3	64	PRO
25	D3	109	ARG
25	D3	131	SER
26	D4	34	ASN
29	D7	23	THR
30	D8	36	THR
31	D9	6	VAL
32	E0	51	ASN
33	E1	83	LYS
33	E1	87	THR
33	E1	100	LEU
33	E1	127	GLY
34	SR	51	ASP
34	SR	249	ARG
34	SR	268	GLN
35	SM	12	VAL
35	SM	39	PRO
35	SM	48	ARG
35	SM	88	ARG
35	SM	173	GLU
41	L4	137	ALA
41	L4	268	ALA
42	L5	7	ALA

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Mol	Chain	Res	Type
42	L5	125	VAL
42	L5	177	GLU
42	L5	258	LYS
44	L7	72	ALA
45	L8	113	ALA
46	L9	15	GLY
47	M0	77	THR
48	M1	108	GLU
48	M1	168	ASP
48	M1	172	LEU
49	M3	50	PRO
49	M3	76	THR
51	M5	183	THR
53	M7	164	LYS
54	M8	108	ALA
60	N4	67	VAL
64	N8	47	LYS
64	N8	115	LYS
65	N9	24	PRO
66	O0	97	ASP
67	O1	82	GLU
67	O1	97	LEU
68	O2	110	ALA
70	O4	82	ALA
73	O7	12	HIS
73	O7	85	LYS
73	O7	86	ALA
74	O8	18	ALA
78	Q2	15	LYS
78	Q2	17	CYS
79	Q3	7	LYS
79	Q3	84	ARG
2	s0	14	ALA
2	s0	92	HIS
2	s0	109	ASN
2	s0	127	ARG
2	s0	152	PRO
2	s0	185	ARG
3	s1	55	LYS
3	s1	210	ILE
4	s2	62	PRO
4	s2	155	ALA

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Mol	Chain	Res	Type
4	s2	235	LEU
4	s2	238	SER
5	s3	94	ARG
5	s3	113	LEU
6	s4	30	ARG
6	s4	90	ILE
6	s4	168	LYS
6	s4	195	ILE
6	s4	202	ASP
7	s5	35	GLN
7	s5	37	GLN
7	s5	45	LYS
7	s5	100	ASN
9	s7	11	GLN
9	s7	133	THR
9	s7	151	LYS
10	s8	52	ASN
10	s8	136	SER
11	s9	162	SER
11	s9	167	ALA
12	c0	3	MET
12	c0	35	ILE
12	c0	91	TYR
14	c2	58	LEU
14	c2	87	PRO
14	c2	89	ILE
14	c2	106	ILE
14	c2	131	ASP
14	c2	141	SER
16	c4	37	GLU
16	c4	114	ARG
18	c6	33	GLY
18	c6	97	VAL
18	c6	113	ASP
18	c6	121	SER
26	d4	36	SER
26	d4	51	GLU
28	d6	11	ASN
28	d6	35	ALA
28	d6	82	ARG
33	e1	81	LYS
33	e1	106	TYR

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Mol	Chain	Res	Type
33	e1	112	GLY
33	e1	128	ALA
33	e1	148	TYR
34	sR	231	MET
34	sR	285	ALA
35	sM	43	ASP
39	l2	56	ALA
39	l2	127	ALA
39	l2	180	LEU
40	l3	3	HIS
40	l3	63	PRO
40	l3	236	LYS
40	l3	284	ARG
43	l6	97	ASN
45	l8	69	LEU
45	l8	240	ASN
46	l9	2	LYS
47	m0	173	PHE
47	m0	196	PHE
48	m1	114	ILE
48	m1	167	TYR
48	m1	168	ASP
80	m2	36	ALA
80	m2	55	VAL
80	m2	99	LYS
80	m2	159	LYS
49	m3	44	ALA
49	m3	50	PRO
49	m3	60	ALA
52	m6	65	ASN
56	n0	2	ALA
60	n4	72	SER
63	n7	103	GLN
67	o1	60	TRP
71	o5	3	GLY
71	o5	119	LYS
72	o6	34	SER
72	o6	65	GLY
74	o8	18	ALA
79	q3	10	ILE
79	q3	45	LYS
81	p0	48	ARG

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Mol	Chain	Res	Type
82	p2	35	VAL
83	f	11	ALA
83	f	98	GLY
83	f	113	VAL
83	f	132	LYS
2	S0	103	THR
2	S0	195	TRP
3	S1	61	LEU
3	S1	156	ALA
3	S1	210	ILE
4	S2	39	THR
4	S2	247	ALA
6	S4	45	ILE
9	S7	5	GLN
10	S8	136	SER
11	S9	118	LEU
12	C0	25	LYS
14	C2	112	ALA
16	C4	18	ARG
16	C4	51	ASP
17	C5	109	PRO
20	C8	53	ASP
24	D2	45	GLY
25	D3	27	ASN
25	D3	128	SER
26	D4	6	THR
26	D4	100	VAL
30	D8	35	ASP
33	E1	101	ALA
33	E1	111	GLU
34	SR	15	GLY
34	SR	28	GLY
34	SR	105	GLY
34	SR	135	THR
35	SM	100	THR
39	L2	47	GLN
39	L2	127	ALA
40	L3	68	HIS
40	L3	317	ILE
41	L4	130	ALA
41	L4	146	PRO
41	L4	181	VAL

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Mol	Chain	Res	Type
42	L5	119	TYR
42	L5	260	PHE
42	L5	295	GLY
46	L9	83	THR
47	M0	47	PRO
48	M1	173	ASP
50	M4	10	SER
53	M7	160	ALA
54	M8	149	ALA
54	M8	162	ALA
54	M8	175	ALA
55	M9	129	GLY
59	N3	46	LEU
60	N4	77	LYS
62	N6	49	PRO
63	N7	36	HIS
63	N7	103	GLN
64	N8	117	ARG
65	N9	25	LYS
70	O4	12	PRO
72	O6	3	VAL
3	s1	218	LEU
4	s2	91	ARG
4	s2	150	GLN
4	s2	204	THR
4	s2	234	PRO
5	s3	44	THR
5	s3	45	LYS
6	s4	80	THR
6	s4	150	PRO
7	s5	98	MET
7	s5	151	GLY
9	s7	41	LEU
10	s8	101	ILE
11	s9	5	PRO
14	c2	92	ALA
14	c2	107	ASP
14	c2	108	ARG
14	c2	115	VAL
14	c2	119	SER
16	c4	32	ASP
16	c4	51	ASP

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Mol	Chain	Res	Type
17	c5	6	ASN
17	c5	71	GLU
18	c6	44	LEU
19	c7	19	ARG
19	c7	117	LEU
21	c9	43	ASN
28	d6	8	ASN
29	d7	58	SER
30	d8	20	GLY
32	e0	44	PHE
34	sR	74	THR
34	sR	186	PHE
34	sR	318	ALA
35	sM	36	ASP
39	l2	241	ARG
41	l4	24	ALA
41	l4	272	VAL
41	l4	342	LYS
47	m0	77	THR
48	m1	108	GLU
80	m2	51	PRO
80	m2	105	ARG
49	m3	51	LEU
51	m5	68	ARG
52	m6	16	VAL
54	m8	155	MET
55	m9	130	ASN
60	n4	7	SER
60	n4	96	LEU
63	n7	16	GLY
63	n7	28	PRO
63	n7	36	HIS
64	n8	93	SER
68	o2	5	PRO
68	o2	124	GLY
81	p0	47	GLY
83	f	93	LEU
83	f	121	GLY
83	f	148	ILE
2	S0	5	ALA
2	S0	152	PRO
3	S1	51	SER

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Mol	Chain	Res	Type
5	S3	72	LEU
5	S3	81	PRO
6	S4	35	PRO
6	S4	205	PHE
6	S4	234	PRO
9	S7	109	VAL
10	S8	59	ARG
10	S8	199	LYS
14	C2	108	ARG
14	C2	119	SER
16	C4	125	SER
16	C4	126	THR
18	C6	33	GLY
18	C6	113	ASP
23	D1	12	TYR
23	D1	14	PRO
23	D1	16	LYS
24	D2	67	GLY
28	D6	85	ARG
35	SM	87	THR
35	SM	89	ARG
42	L5	213	ASP
44	L7	158	LYS
50	M4	6	ILE
52	M6	112	TYR
65	N9	29	TYR
67	O1	45	GLY
70	O4	59	PRO
70	O4	77	GLY
79	Q3	51	ALA
2	s0	139	VAL
3	s1	22	ASP
4	s2	151	PRO
5	s3	102	ALA
7	s5	29	ILE
8	s6	152	ASP
9	s7	129	LEU
10	s8	78	ILE
12	c0	24	LYS
16	c4	118	VAL
19	c7	105	GLN
20	c8	145	ARG

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Mol	Chain	Res	Type
22	d0	118	VAL
23	d1	2	GLU
27	d5	44	GLN
28	d6	13	LYS
28	d6	59	TYR
28	d6	86	VAL
32	e0	54	ARG
33	e1	137	ASP
41	l4	302	ALA
42	l5	139	PRO
46	l9	110	LYS
47	m0	176	LEU
48	m1	11	ASP
48	m1	117	ASP
48	m1	153	LYS
80	m2	103	ARG
52	m6	5	PRO
54	m8	91	ALA
54	m8	171	LYS
64	n8	28	HIS
68	o2	127	ALA
73	o7	85	LYS
82	p2	22	SER
4	S2	236	PRO
6	S4	150	PRO
44	L7	26	VAL
6	s4	107	GLY
11	s9	168	ARG
19	c7	121	VAL
23	d1	9	VAL
35	sM	51	ARG
80	m2	86	VAL
55	m9	143	ILE
57	n1	124	VAL
58	n2	60	GLY
59	n3	16	GLY
66	o0	96	GLY
13	C1	113	PRO
14	C2	82	PRO
14	C2	115	VAL
16	C4	96	PRO
23	D1	23	ILE

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Mol	Chain	Res	Type
26	D4	95	GLY
41	L4	66	GLY
41	L4	328	ASN
47	M0	16	PRO
2	s0	199	PRO
6	s4	111	VAL
28	d6	75	VAL
32	e0	50	VAL
45	l8	36	ILE
80	m2	141	VAL
76	q0	80	PRO
20	C8	142	GLY
23	D1	46	ILE
26	D4	29	HIS
40	L3	305	ILE
43	L6	6	ALA
61	N5	35	PRO
62	N6	92	GLY
67	O1	88	PRO
2	s0	118	PRO
13	c1	76	VAL
15	c3	59	GLY
15	c3	82	PRO
20	c8	4	VAL
20	c8	135	GLY
26	d4	29	HIS
32	e0	14	VAL
42	l5	255	PRO
80	m2	59	ILE
53	m7	67	ILE
59	n3	3	GLY
60	n4	67	VAL
63	n7	82	PRO
65	n9	29	TYR
74	o8	37	PRO
81	p0	214	VAL
25	D3	108	GLY
28	D6	18	VAL
30	D8	44	VAL
73	O7	23	GLY
79	Q3	8	VAL
15	c3	22	ALA

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Mol	Chain	Res	Type
17	c5	48	GLY
26	d4	120	GLY
30	d8	47	PRO
59	n3	107	GLY
64	n8	56	VAL
64	n8	70	LYS
15	C3	85	PRO
29	D7	38	PRO
30	D8	6	PRO
58	n2	22	PRO
63	n7	70	PRO
81	p0	80	VAL
24	d2	29	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/209 (78%)	140 (85%)	24 (15%)	3	17
2	s0	165/209 (79%)	140 (85%)	25 (15%)	3	16
3	S1	191/223 (86%)	162 (85%)	29 (15%)	3	16
3	s1	192/223 (86%)	158 (82%)	34 (18%)	2	11
4	S2	176/204 (86%)	143 (81%)	33 (19%)	1	9
4	s2	176/204 (86%)	133 (76%)	43 (24%)	1	4
5	S3	182/194 (94%)	145 (80%)	37 (20%)	1	7
5	s3	182/194 (94%)	156 (86%)	26 (14%)	3	18
6	S4	221/221 (100%)	190 (86%)	31 (14%)	3	19
6	s4	221/221 (100%)	180 (81%)	41 (19%)	1	9
7	S5	173/190 (91%)	147 (85%)	26 (15%)	3	17
7	s5	173/190 (91%)	145 (84%)	28 (16%)	2	14
8	S6	188/201 (94%)	159 (85%)	29 (15%)	2	16
8	s6	187/201 (93%)	159 (85%)	28 (15%)	3	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	S7	165/169 (98%)	142 (86%)	23 (14%)	3	19
9	s7	165/169 (98%)	136 (82%)	29 (18%)	2	11
10	S8	150/161 (93%)	125 (83%)	25 (17%)	2	13
10	s8	150/161 (93%)	126 (84%)	24 (16%)	2	14
11	S9	158/165 (96%)	131 (83%)	27 (17%)	2	12
11	s9	158/165 (96%)	132 (84%)	26 (16%)	2	14
12	C0	77/98 (79%)	68 (88%)	9 (12%)	5	25
12	c0	73/98 (74%)	62 (85%)	11 (15%)	3	17
13	C1	129/136 (95%)	110 (85%)	19 (15%)	3	17
13	c1	129/136 (95%)	105 (81%)	24 (19%)	1	9
14	C2	88/118 (75%)	70 (80%)	18 (20%)	1	7
14	c2	88/118 (75%)	75 (85%)	13 (15%)	3	17
15	C3	127/127 (100%)	97 (76%)	30 (24%)	1	4
15	c3	127/127 (100%)	109 (86%)	18 (14%)	3	18
16	C4	81/104 (78%)	63 (78%)	18 (22%)	1	5
16	c4	97/104 (93%)	77 (79%)	20 (21%)	1	7
17	C5	101/117 (86%)	86 (85%)	15 (15%)	3	17
17	c5	103/117 (88%)	84 (82%)	19 (18%)	1	9
18	C6	117/118 (99%)	96 (82%)	21 (18%)	2	10
18	c6	118/118 (100%)	101 (86%)	17 (14%)	3	18
19	C7	94/124 (76%)	78 (83%)	16 (17%)	2	12
19	c7	92/124 (74%)	77 (84%)	15 (16%)	2	14
20	C8	128/128 (100%)	103 (80%)	25 (20%)	1	8
20	c8	128/128 (100%)	102 (80%)	26 (20%)	1	7
21	C9	115/115 (100%)	95 (83%)	20 (17%)	2	12
21	c9	115/115 (100%)	99 (86%)	16 (14%)	3	19
22	D0	100/113 (88%)	74 (74%)	26 (26%)	0	3
22	d0	103/113 (91%)	78 (76%)	25 (24%)	1	4
23	D1	74/74 (100%)	59 (80%)	15 (20%)	1	7
23	d1	74/74 (100%)	55 (74%)	19 (26%)	0	3
24	D2	110/110 (100%)	83 (76%)	27 (24%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	d2	110/110 (100%)	91 (83%)	19 (17%)	2	12
25	D3	119/119 (100%)	95 (80%)	24 (20%)	1	7
25	d3	119/119 (100%)	97 (82%)	22 (18%)	1	9
26	D4	112/112 (100%)	95 (85%)	17 (15%)	3	16
26	d4	112/112 (100%)	92 (82%)	20 (18%)	2	10
27	D5	61/88 (69%)	49 (80%)	12 (20%)	1	8
27	d5	61/88 (69%)	50 (82%)	11 (18%)	2	10
28	D6	83/83 (100%)	63 (76%)	20 (24%)	1	4
28	d6	83/83 (100%)	75 (90%)	8 (10%)	8	31
29	D7	70/70 (100%)	65 (93%)	5 (7%)	13	40
29	d7	70/70 (100%)	56 (80%)	14 (20%)	1	7
30	D8	56/59 (95%)	45 (80%)	11 (20%)	1	8
30	d8	56/59 (95%)	41 (73%)	15 (27%)	0	3
31	D9	47/48 (98%)	39 (83%)	8 (17%)	2	12
31	d9	47/48 (98%)	39 (83%)	8 (17%)	2	12
32	E0	51/54 (94%)	42 (82%)	9 (18%)	2	11
32	e0	53/54 (98%)	35 (66%)	18 (34%)	0	2
33	E1	62/66 (94%)	51 (82%)	11 (18%)	2	11
33	e1	66/66 (100%)	52 (79%)	14 (21%)	1	6
34	SR	259/261 (99%)	235 (91%)	24 (9%)	8	32
34	sR	260/261 (100%)	236 (91%)	24 (9%)	8	32
35	SM	97/228 (42%)	76 (78%)	21 (22%)	1	6
35	sM	54/228 (24%)	46 (85%)	8 (15%)	3	17
39	L2	193/195 (99%)	153 (79%)	40 (21%)	1	6
39	l2	192/195 (98%)	150 (78%)	42 (22%)	1	6
40	L3	319/322 (99%)	252 (79%)	67 (21%)	1	6
40	l3	320/322 (99%)	254 (79%)	66 (21%)	1	7
41	L4	288/288 (100%)	232 (81%)	56 (19%)	1	8
41	l4	288/288 (100%)	235 (82%)	53 (18%)	1	9
42	L5	244/244 (100%)	201 (82%)	43 (18%)	2	11
42	l5	243/244 (100%)	195 (80%)	48 (20%)	1	7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
43	L6	134/152 (88%)	111 (83%)	23 (17%)	2	12
43	l6	135/152 (89%)	109 (81%)	26 (19%)	1	8
44	L7	186/204 (91%)	157 (84%)	29 (16%)	2	15
44	l7	187/204 (92%)	157 (84%)	30 (16%)	2	14
45	L8	187/207 (90%)	157 (84%)	30 (16%)	2	14
45	l8	177/207 (86%)	151 (85%)	26 (15%)	3	17
46	L9	171/171 (100%)	131 (77%)	40 (23%)	1	4
46	l9	171/171 (100%)	141 (82%)	30 (18%)	2	11
47	M0	177/186 (95%)	144 (81%)	33 (19%)	1	9
47	m0	179/186 (96%)	144 (80%)	35 (20%)	1	8
48	M1	147/150 (98%)	116 (79%)	31 (21%)	1	6
48	m1	147/150 (98%)	117 (80%)	30 (20%)	1	7
49	M3	154/158 (98%)	131 (85%)	23 (15%)	3	17
49	m3	154/158 (98%)	136 (88%)	18 (12%)	5	25
50	M4	107/108 (99%)	87 (81%)	20 (19%)	1	9
50	m4	108/108 (100%)	85 (79%)	23 (21%)	1	6
51	M5	175/175 (100%)	145 (83%)	30 (17%)	2	12
51	m5	175/175 (100%)	149 (85%)	26 (15%)	3	17
52	M6	160/161 (99%)	138 (86%)	22 (14%)	3	19
52	m6	160/161 (99%)	140 (88%)	20 (12%)	4	22
53	M7	140/145 (97%)	105 (75%)	35 (25%)	0	4
53	m7	125/145 (86%)	101 (81%)	24 (19%)	1	8
54	M8	150/150 (100%)	127 (85%)	23 (15%)	3	16
54	m8	150/150 (100%)	129 (86%)	21 (14%)	3	19
55	M9	153/153 (100%)	129 (84%)	24 (16%)	2	15
55	m9	153/153 (100%)	133 (87%)	20 (13%)	4	21
56	N0	156/156 (100%)	128 (82%)	28 (18%)	2	10
56	n0	156/156 (100%)	121 (78%)	35 (22%)	1	5
57	N1	136/136 (100%)	106 (78%)	30 (22%)	1	5
57	n1	136/136 (100%)	107 (79%)	29 (21%)	1	6
58	N2	87/106 (82%)	75 (86%)	12 (14%)	3	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
58	n2	85/106 (80%)	69 (81%)	16 (19%)	1	9
59	N3	104/104 (100%)	89 (86%)	15 (14%)	3	18
59	n3	104/104 (100%)	87 (84%)	17 (16%)	2	14
60	N4	57/129 (44%)	55 (96%)	2 (4%)	32	58
60	n4	100/129 (78%)	86 (86%)	14 (14%)	3	19
61	N5	104/117 (89%)	76 (73%)	28 (27%)	0	3
61	n5	104/117 (89%)	88 (85%)	16 (15%)	2	16
62	N6	109/109 (100%)	84 (77%)	25 (23%)	1	5
62	n6	109/109 (100%)	88 (81%)	21 (19%)	1	8
63	N7	115/115 (100%)	100 (87%)	15 (13%)	4	21
63	n7	115/115 (100%)	93 (81%)	22 (19%)	1	8
64	N8	118/118 (100%)	97 (82%)	21 (18%)	2	10
64	n8	118/118 (100%)	96 (81%)	22 (19%)	1	9
65	N9	46/46 (100%)	38 (83%)	8 (17%)	2	12
65	n9	46/46 (100%)	39 (85%)	7 (15%)	3	16
66	O0	81/87 (93%)	65 (80%)	16 (20%)	1	7
66	o0	84/87 (97%)	70 (83%)	14 (17%)	2	13
67	O1	92/96 (96%)	76 (83%)	16 (17%)	2	12
67	o1	94/96 (98%)	78 (83%)	16 (17%)	2	12
68	O2	109/110 (99%)	85 (78%)	24 (22%)	1	5
68	o2	109/110 (99%)	83 (76%)	26 (24%)	1	4
69	O3	90/90 (100%)	78 (87%)	12 (13%)	4	21
69	o3	90/90 (100%)	79 (88%)	11 (12%)	5	23
70	O4	95/103 (92%)	81 (85%)	14 (15%)	3	17
70	o4	95/103 (92%)	76 (80%)	19 (20%)	1	7
71	O5	104/104 (100%)	82 (79%)	22 (21%)	1	6
71	o5	103/104 (99%)	84 (82%)	19 (18%)	1	9
72	O6	81/81 (100%)	63 (78%)	18 (22%)	1	5
72	o6	80/81 (99%)	57 (71%)	23 (29%)	0	2
73	O7	70/70 (100%)	56 (80%)	14 (20%)	1	7
73	o7	70/70 (100%)	53 (76%)	17 (24%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
74	O8	68/68 (100%)	49 (72%)	19 (28%)	0	3
74	o8	67/68 (98%)	56 (84%)	11 (16%)	2	14
75	O9	45/45 (100%)	35 (78%)	10 (22%)	1	5
75	o9	45/45 (100%)	39 (87%)	6 (13%)	4	21
76	Q0	47/47 (100%)	38 (81%)	9 (19%)	1	8
76	q0	47/47 (100%)	39 (83%)	8 (17%)	2	12
77	Q1	23/23 (100%)	18 (78%)	5 (22%)	1	6
77	q1	23/23 (100%)	17 (74%)	6 (26%)	0	3
78	Q2	90/90 (100%)	71 (79%)	19 (21%)	1	6
78	q2	90/90 (100%)	68 (76%)	22 (24%)	1	4
79	Q3	71/71 (100%)	61 (86%)	10 (14%)	3	19
79	q3	71/71 (100%)	58 (82%)	13 (18%)	2	10
81	p0	105/253 (42%)	86 (82%)	19 (18%)	2	10
83	f	123/132 (93%)	103 (84%)	20 (16%)	2	14
All	All	18849/20379 (92%)	15488 (82%)	3361 (18%)	2	10

All (3361) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	9	LEU
2	S0	22	THR
2	S0	27	ARG
2	S0	37	VAL
2	S0	41	ARG
2	S0	49	ASN
2	S0	62	ARG
2	S0	78	SER
2	S0	87	LEU
2	S0	88	LYS
2	S0	101	ARG
2	S0	108	THR
2	S0	114	SER
2	S0	153	SER
2	S0	154	GLU
2	S0	168	HIS
2	S0	170	ILE

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Mol	Chain	Res	Type
2	S0	172	LEU
2	S0	177	LEU
2	S0	188	LEU
2	S0	196	SER
2	S0	198	MET
2	S0	203	PHE
3	S1	20	VAL
3	S1	21	VAL
3	S1	29	TRP
3	S1	30	PHE
3	S1	36	SER
3	S1	46	THR
3	S1	61	LEU
3	S1	70	LEU
3	S1	81	PHE
3	S1	97	LEU
3	S1	104	ASP
3	S1	108	ASP
3	S1	111	ARG
3	S1	120	LEU
3	S1	124	ASN
3	S1	135	LEU
3	S1	148	ASN
3	S1	154	SER
3	S1	174	LYS
3	S1	176	VAL
3	S1	180	THR
3	S1	181	LEU
3	S1	184	LEU
3	S1	193	ILE
3	S1	194	ASN
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
4	S2	41	LEU
4	S2	53	ILE
4	S2	69	ILE
4	S2	70	ASP
4	S2	87	GLN
4	S2	89	GLN
4	S2	91	ARG

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Mol	Chain	Res	Type
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	99	LYS
4	S2	107	SER
4	S2	111	VAL
4	S2	117	THR
4	S2	125	ILE
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	159	THR
4	S2	166	THR
4	S2	167	VAL
4	S2	182	PRO
4	S2	186	LYS
4	S2	193	VAL
4	S2	196	VAL
4	S2	206	THR
4	S2	221	THR
4	S2	222	TYR
4	S2	226	THR
4	S2	235	LEU
4	S2	237	VAL
4	S2	242	ILE
5	S3	4	LEU
5	S3	5	ILE
5	S3	7	LYS
5	S3	16	VAL
5	S3	23	GLU
5	S3	37	VAL
5	S3	44	THR
5	S3	45	LYS
5	S3	55	THR
5	S3	65	ARG
5	S3	70	THR
5	S3	84	ILE
5	S3	89	GLU
5	S3	91	VAL
5	S3	93	ASP
5	S3	99	VAL

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Mol	Chain	Res	Type
5	S3	105	MET
5	S3	108	LYS
5	S3	111	ASN
5	S3	113	LEU
5	S3	117	ARG
5	S3	124	ARG
5	S3	127	MET
5	S3	128	GLU
5	S3	134	CYS
5	S3	138	VAL
5	S3	142	LEU
5	S3	158	ILE
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	179	GLN
5	S3	182	LEU
5	S3	189	MET
5	S3	207	THR
5	S3	217	ILE
5	S3	222	VAL
6	S4	12	LEU
6	S4	38	LEU
6	S4	39	ARG
6	S4	45	ILE
6	S4	65	LEU
6	S4	76	VAL
6	S4	95	THR
6	S4	115	THR
6	S4	116	ASP
6	S4	126	VAL
6	S4	129	VAL
6	S4	131	LEU
6	S4	148	ARG
6	S4	160	VAL
6	S4	164	LEU
6	S4	180	LEU
6	S4	181	VAL
6	S4	182	TYR
6	S4	187	ARG
6	S4	211	LYS
6	S4	212	ASP

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Mol	Chain	Res	Type
6	S4	217	THR
6	S4	219	VAL
6	S4	220	THR
6	S4	222	LEU
6	S4	225	VAL
6	S4	227	VAL
6	S4	238	LEU
6	S4	240	LYS
6	S4	248	ILE
6	S4	259	GLN
7	S5	24	VAL
7	S5	25	LEU
7	S5	27	THR
7	S5	38	THR
7	S5	41	LYS
7	S5	45	LYS
7	S5	48	PHE
7	S5	53	VAL
7	S5	63	GLN
7	S5	70	VAL
7	S5	83	ARG
7	S5	84	LYS
7	S5	89	ILE
7	S5	93	LEU
7	S5	94	THR
7	S5	97	LEU
7	S5	109	LYS
7	S5	119	ASP
7	S5	123	VAL
7	S5	128	ASN
7	S5	147	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	162	VAL
7	S5	166	ARG
7	S5	187	ILE
8	S6	12	SER
8	S6	15	THR
8	S6	18	ILE
8	S6	44	GLU
8	S6	65	GLN
8	S6	73	ILE

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Mol	Chain	Res	Type
8	S6	76	LEU
8	S6	78	THR
8	S6	81	VAL
8	S6	97	VAL
8	S6	114	VAL
8	S6	120	GLU
8	S6	124	LEU
8	S6	125	THR
8	S6	126	ASP
8	S6	133	LEU
8	S6	150	GLU
8	S6	154	ARG
8	S6	155	ASP
8	S6	162	VAL
8	S6	170	THR
8	S6	175	ILE
8	S6	177	ARG
8	S6	179	VAL
8	S6	201	GLN
8	S6	211	LEU
8	S6	212	LEU
8	S6	216	LEU
8	S6	223	LYS
9	S7	9	LEU
9	S7	15	GLU
9	S7	16	LEU
9	S7	38	LEU
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	60	ILE
9	S7	67	LEU
9	S7	76	LYS
9	S7	91	ILE
9	S7	95	GLU
9	S7	97	ARG
9	S7	109	VAL
9	S7	110	GLN
9	S7	114	ARG
9	S7	115	SER
9	S7	126	LEU
9	S7	133	THR

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Mol	Chain	Res	Type
9	S7	144	VAL
9	S7	147	ASN
9	S7	181	ILE
9	S7	185	ILE
10	S8	20	GLN
10	S8	21	PHE
10	S8	32	GLN
10	S8	37	LYS
10	S8	46	VAL
10	S8	56	ARG
10	S8	58	LEU
10	S8	62	THR
10	S8	72	ILE
10	S8	82	VAL
10	S8	88	ASN
10	S8	93	THR
10	S8	103	GLN
10	S8	135	LYS
10	S8	137	LYS
10	S8	151	LYS
10	S8	152	ILE
10	S8	155	SER
10	S8	158	SER
10	S8	164	ARG
10	S8	193	LEU
10	S8	195	ARG
10	S8	196	LEU
10	S8	197	THR
10	S8	199	LYS
11	S9	3	ARG
11	S9	22	SER
11	S9	28	LEU
11	S9	39	LYS
11	S9	60	LEU
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	94	ASP
11	S9	96	VAL
11	S9	97	LEU
11	S9	99	LEU
11	S9	105	LEU

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Mol	Chain	Res	Type
11	S9	109	LEU
11	S9	121	SER
11	S9	130	THR
11	S9	134	ILE
11	S9	138	LYS
11	S9	149	ARG
11	S9	150	LEU
11	S9	156	ILE
11	S9	161	THR
11	S9	171	ARG
11	S9	172	VAL
11	S9	174	ARG
11	S9	175	ARG
11	S9	182	GLU
12	C0	1	MET
12	C0	20	VAL
12	C0	27	PHE
12	C0	40	LEU
12	C0	46	LEU
12	C0	55	VAL
12	C0	56	LYS
12	C0	76	LEU
12	C0	82	LEU
13	C1	21	ASN
13	C1	27	THR
13	C1	29	LYS
13	C1	37	ASN
13	C1	40	LEU
13	C1	43	LYS
13	C1	44	THR
13	C1	56	LYS
13	C1	64	VAL
13	C1	67	ARG
13	C1	74	THR
13	C1	79	LYS
13	C1	83	THR
13	C1	88	ARG
13	C1	91	LEU
13	C1	98	ASN
13	C1	99	ARG
13	C1	123	VAL
13	C1	128	CYS

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Mol	Chain	Res	Type
14	C2	28	LEU
14	C2	37	VAL
14	C2	38	HIS
14	C2	43	ARG
14	C2	46	ARG
14	C2	50	LYS
14	C2	52	LEU
14	C2	54	ARG
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	80	ASN
14	C2	89	ILE
14	C2	103	LEU
14	C2	132	GLU
14	C2	135	MET
14	C2	143	GLN
15	C3	3	ARG
15	C3	9	LYS
15	C3	11	ILE
15	C3	16	ILE
15	C3	19	SER
15	C3	27	LYS
15	C3	32	SER
15	C3	35	GLU
15	C3	39	LYS
15	C3	45	LEU
15	C3	52	VAL
15	C3	53	LEU
15	C3	58	HIS
15	C3	64	ARG
15	C3	66	ILE
15	C3	69	ASN
15	C3	75	LEU
15	C3	78	ASN
15	C3	80	LEU
15	C3	83	GLU
15	C3	88	LEU
15	C3	102	LEU
15	C3	105	ASN
15	C3	110	ASP

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Mol	Chain	Res	Type
15	C3	114	ARG
15	C3	115	LEU
15	C3	125	LEU
15	C3	131	THR
15	C3	134	VAL
15	C3	135	LEU
16	C4	12	GLN
16	C4	13	VAL
16	C4	26	THR
16	C4	29	HIS
16	C4	39	ILE
16	C4	42	VAL
16	C4	43	THR
16	C4	56	SER
16	C4	76	ILE
16	C4	81	VAL
16	C4	83	ILE
16	C4	99	GLN
16	C4	102	LEU
16	C4	118	VAL
16	C4	123	SER
16	C4	127	ARG
16	C4	136	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	20	VAL
17	C5	22	LEU
17	C5	29	SER
17	C5	34	VAL
17	C5	36	LEU
17	C5	52	LYS
17	C5	60	LEU
17	C5	69	GLU
17	C5	86	VAL
17	C5	89	MET
17	C5	94	VAL
17	C5	103	ASN
17	C5	110	GLU
17	C5	125	PRO
18	C6	26	LYS
18	C6	29	ILE
18	C6	31	VAL

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Mol	Chain	Res	Type
18	C6	36	ILE
18	C6	50	GLU
18	C6	52	LEU
18	C6	53	LEU
18	C6	57	LEU
18	C6	59	LYS
18	C6	63	ILE
18	C6	66	ARG
18	C6	68	ARG
18	C6	69	VAL
18	C6	76	SER
18	C6	106	LYS
18	C6	109	PHE
18	C6	114	ARG
18	C6	116	LEU
18	C6	117	LEU
18	C6	118	ILE
18	C6	137	ARG
19	C7	3	ARG
19	C7	5	ARG
19	C7	6	THR
19	C7	8	THR
19	C7	18	GLU
19	C7	29	GLN
19	C7	46	LEU
19	C7	47	ARG
19	C7	49	LYS
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	76	GLU
19	C7	81	LYS
19	C7	83	GLN
19	C7	88	VAL
20	C8	3	LEU
20	C8	5	VAL
20	C8	6	GLN
20	C8	11	PHE
20	C8	12	GLN
20	C8	14	ILE
20	C8	18	LEU
20	C8	26	ILE

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Mol	Chain	Res	Type
20	C8	28	ILE
20	C8	40	ARG
20	C8	53	ASP
20	C8	71	GLN
20	C8	74	GLN
20	C8	77	THR
20	C8	78	HIS
20	C8	88	ARG
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	107	SER
20	C8	109	LEU
20	C8	116	LEU
20	C8	132	ARG
20	C8	136	GLN
20	C8	138	THR
21	C9	6	VAL
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	30	VAL
21	C9	33	TYR
21	C9	35	ASP
21	C9	57	ARG
21	C9	64	HIS
21	C9	67	MET
21	C9	70	GLN
21	C9	71	VAL
21	C9	73	VAL
21	C9	88	VAL
21	C9	104	VAL
21	C9	125	SER
21	C9	126	GLU
21	C9	131	ASP
21	C9	132	LEU
21	C9	144	GLU
22	D0	15	GLN
22	D0	18	GLN
22	D0	20	ILE
22	D0	23	ARG
22	D0	25	THR

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Mol	Chain	Res	Type
22	D0	33	GLN
22	D0	34	LEU
22	D0	37	VAL
22	D0	41	ILE
22	D0	43	LYS
22	D0	50	LEU
22	D0	51	VAL
22	D0	56	VAL
22	D0	57	ARG
22	D0	61	LYS
22	D0	62	VAL
22	D0	65	ILE
22	D0	70	THR
22	D0	74	GLU
22	D0	83	GLU
22	D0	89	ARG
22	D0	99	ILE
22	D0	103	ILE
22	D0	105	GLN
22	D0	117	VAL
22	D0	120	SER
23	D1	5	LYS
23	D1	7	GLN
23	D1	11	LEU
23	D1	18	SER
23	D1	25	LYS
23	D1	32	VAL
23	D1	36	VAL
23	D1	41	GLU
23	D1	44	ARG
23	D1	52	THR
23	D1	60	ARG
23	D1	76	ASP
23	D1	78	LEU
23	D1	79	LEU
23	D1	80	LYS
24	D2	2	THR
24	D2	3	ARG
24	D2	6	VAL
24	D2	7	LEU
24	D2	18	GLU
24	D2	20	THR

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Mol	Chain	Res	Type
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	30	SER
24	D2	53	ILE
24	D2	56	HIS
24	D2	65	LEU
24	D2	68	ARG
24	D2	74	VAL
24	D2	81	VAL
24	D2	82	LYS
24	D2	83	ILE
24	D2	86	ILE
24	D2	90	THR
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	120	HIS
24	D2	121	VAL
24	D2	126	LEU
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU
25	D3	16	ARG
25	D3	18	HIS
25	D3	28	ASN
25	D3	55	GLU
25	D3	57	LEU
25	D3	59	ILE
25	D3	65	ASN
25	D3	69	ARG
25	D3	75	GLN
25	D3	79	ASN
25	D3	82	LYS
25	D3	83	VAL
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG
25	D3	114	LYS
25	D3	132	LEU
25	D3	133	LEU

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Mol	Chain	Res	Type
25	D3	138	GLU
25	D3	140	LYS
25	D3	144	ARG
26	D4	10	ARG
26	D4	29	HIS
26	D4	47	VAL
26	D4	51	GLU
26	D4	57	VAL
26	D4	61	ARG
26	D4	74	LEU
26	D4	75	VAL
26	D4	88	THR
26	D4	99	LYS
26	D4	102	LYS
26	D4	115	ASP
26	D4	121	THR
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
26	D4	135	ASP
27	D5	41	ILE
27	D5	42	LEU
27	D5	54	VAL
27	D5	58	ARG
27	D5	60	VAL
27	D5	62	VAL
27	D5	75	LEU
27	D5	78	ILE
27	D5	82	HIS
27	D5	92	ILE
27	D5	98	GLN
27	D5	100	ILE
28	D6	12	LYS
28	D6	15	ARG
28	D6	18	VAL
28	D6	30	ILE
28	D6	36	ILE
28	D6	38	ARG
28	D6	39	MET
28	D6	41	ILE
28	D6	44	ILE
28	D6	50	VAL

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Mol	Chain	Res	Type
28	D6	53	LEU
28	D6	55	GLU
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	69	ASN
28	D6	71	LEU
28	D6	82	ARG
28	D6	85	ARG
28	D6	91	ASP
29	D7	3	LEU
29	D7	33	LEU
29	D7	61	THR
29	D7	75	GLU
29	D7	77	THR
30	D8	7	VAL
30	D8	15	VAL
30	D8	19	THR
30	D8	32	PHE
30	D8	38	ARG
30	D8	39	THR
30	D8	48	VAL
30	D8	49	ARG
30	D8	52	ASP
30	D8	58	GLU
30	D8	61	ARG
31	D9	6	VAL
31	D9	10	HIS
31	D9	19	ARG
31	D9	25	SER
31	D9	28	THR
31	D9	30	LEU
31	D9	36	LEU
31	D9	38	ILE
32	E0	3	LYS
32	E0	14	VAL
32	E0	20	LYS
32	E0	21	VAL
32	E0	39	LEU
32	E0	43	ARG
32	E0	47	VAL
32	E0	49	LEU

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Mol	Chain	Res	Type
32	E0	56	MET
33	E1	83	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	102	VAL
33	E1	103	LEU
33	E1	108	VAL
33	E1	113	LYS
33	E1	120	GLU
33	E1	147	VAL
33	E1	150	VAL
34	SR	16	HIS
34	SR	46	LYS
34	SR	50	ASP
34	SR	52	GLN
34	SR	56	VAL
34	SR	58	VAL
34	SR	66	HIS
34	SR	76	ASP
34	SR	98	GLU
34	SR	117	LYS
34	SR	136	ILE
34	SR	137	LYS
34	SR	165	ASP
34	SR	193	ILE
34	SR	202	LEU
34	SR	223	TRP
34	SR	233	THR
34	SR	238	ASP
34	SR	248	ASN
34	SR	265	LEU
34	SR	268	GLN
34	SR	277	GLU
34	SR	290	VAL
34	SR	316	MET
35	SM	24	GLU
35	SM	25	ILE
35	SM	30	THR
35	SM	33	LYS
35	SM	37	VAL
35	SM	45	SER

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Mol	Chain	Res	Type
35	SM	46	LYS
35	SM	53	ARG
35	SM	61	ILE
35	SM	64	LYS
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	97	THR
35	SM	100	THR
35	SM	102	THR
35	SM	106	VAL
35	SM	116	GLU
35	SM	131	ILE
35	SM	133	GLU
35	SM	140	ASP
39	L2	4	VAL
39	L2	17	THR
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	48	ILE
39	L2	49	VAL
39	L2	62	VAL
39	L2	72	ARG
39	L2	75	ILE
39	L2	88	ILE
39	L2	96	LEU
39	L2	98	VAL
39	L2	101	VAL
39	L2	104	LEU
39	L2	107	VAL
39	L2	113	VAL
39	L2	116	VAL
39	L2	126	LEU
39	L2	143	GLU
39	L2	148	VAL
39	L2	149	ARG
39	L2	157	VAL
39	L2	165	VAL
39	L2	168	VAL
39	L2	169	ILE
39	L2	177	LYS

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Mol	Chain	Res	Type
39	L2	179	LEU
39	L2	180	LEU
39	L2	181	LYS
39	L2	191	LEU
39	L2	199	THR
39	L2	204	MET
39	L2	207	VAL
39	L2	226	SER
39	L2	227	ARG
39	L2	230	VAL
39	L2	231	SER
39	L2	241	ARG
39	L2	252	THR
40	L3	7	GLU
40	L3	19	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	44	THR
40	L3	45	SER
40	L3	53	MET
40	L3	54	THR
40	L3	55	THR
40	L3	56	ILE
40	L3	72	VAL
40	L3	73	VAL
40	L3	79	VAL
40	L3	81	THR
40	L3	85	VAL
40	L3	97	ARG
40	L3	102	LEU
40	L3	103	THR
40	L3	110	LEU
40	L3	112	ASP
40	L3	114	VAL
40	L3	116	ARG
40	L3	157	VAL
40	L3	158	VAL
40	L3	160	VAL
40	L3	163	HIS
40	L3	166	ILE

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Mol	Chain	Res	Type
40	L3	167	ARG
40	L3	187	SER
40	L3	188	ILE
40	L3	192	VAL
40	L3	196	ARG
40	L3	202	THR
40	L3	205	VAL
40	L3	206	ASP
40	L3	207	SER
40	L3	212	ASN
40	L3	214	MET
40	L3	235	THR
40	L3	238	LEU
40	L3	244	ARG
40	L3	248	LYS
40	L3	252	ILE
40	L3	264	VAL
40	L3	276	THR
40	L3	284	ARG
40	L3	289	ASP
40	L3	296	THR
40	L3	301	THR
40	L3	304	THR
40	L3	305	ILE
40	L3	312	VAL
40	L3	313	HIS
40	L3	319	ASN
40	L3	328	ILE
40	L3	333	LYS
40	L3	343	TYR
40	L3	345	ASN
40	L3	347	SER
40	L3	349	LYS
40	L3	354	VAL
40	L3	355	SER
40	L3	364	LYS
40	L3	372	THR
40	L3	380	MET
41	L4	3	ARG
41	L4	6	VAL
41	L4	14	GLU
41	L4	20	LEU

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Mol	Chain	Res	Type
41	L4	22	LEU
41	L4	25	VAL
41	L4	47	ARG
41	L4	55	LYS
41	L4	63	GLU
41	L4	74	ILE
41	L4	93	MET
41	L4	98	ARG
41	L4	99	MET
41	L4	105	THR
41	L4	112	LYS
41	L4	118	LYS
41	L4	131	VAL
41	L4	133	SER
41	L4	138	ARG
41	L4	148	ILE
41	L4	150	LEU
41	L4	152	VAL
41	L4	156	LEU
41	L4	178	LEU
41	L4	181	VAL
41	L4	194	TYR
41	L4	196	ASN
41	L4	206	LEU
41	L4	222	VAL
41	L4	225	VAL
41	L4	230	VAL
41	L4	238	LEU
41	L4	246	ARG
41	L4	256	THR
41	L4	259	ASP
41	L4	265	GLU
41	L4	267	VAL
41	L4	283	THR
41	L4	286	VAL
41	L4	287	THR
41	L4	288	ARG
41	L4	295	ILE
41	L4	300	ARG
41	L4	306	THR
41	L4	307	GLN
41	L4	313	LEU

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Mol	Chain	Res	Type
41	L4	316	ASN
41	L4	318	LEU
41	L4	323	VAL
41	L4	327	LEU
41	L4	332	LYS
41	L4	333	VAL
41	L4	338	LYS
41	L4	346	LYS
41	L4	349	THR
41	L4	354	VAL
42	L5	4	GLN
42	L5	9	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	35	ARG
42	L5	50	ARG
42	L5	52	VAL
42	L5	65	ILE
42	L5	67	SER
42	L5	69	ILE
42	L5	70	THR
42	L5	81	HIS
42	L5	92	LEU
42	L5	105	ILE
42	L5	107	ARG
42	L5	110	LEU
42	L5	113	LEU
42	L5	115	LEU
42	L5	125	VAL
42	L5	131	LEU
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	187	THR
42	L5	188	GLU
42	L5	189	GLU
42	L5	190	ILE
42	L5	193	GLU
42	L5	227	LEU

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Mol	Chain	Res	Type
42	L5	231	ILE
42	L5	236	LEU
42	L5	245	GLU
42	L5	257	GLU
42	L5	259	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	278	SER
42	L5	279	LYS
42	L5	286	VAL
42	L5	293	LEU
43	L6	5	LYS
43	L6	18	LEU
43	L6	21	THR
43	L6	31	ARG
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR
43	L6	90	LYS
43	L6	98	VAL
43	L6	102	ASN
43	L6	129	GLU
43	L6	133	GLU
43	L6	134	ARG
43	L6	141	VAL
43	L6	146	ILE
43	L6	149	ILE
43	L6	154	LEU
43	L6	164	SER
43	L6	173	MET
44	L7	24	GLU
44	L7	25	GLN
44	L7	26	VAL
44	L7	38	LYS
44	L7	46	GLU
44	L7	77	VAL
44	L7	82	LYS
44	L7	83	LEU

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Mol	Chain	Res	Type
44	L7	88	ARG
44	L7	92	ILE
44	L7	93	ASN
44	L7	100	ARG
44	L7	117	VAL
44	L7	121	LYS
44	L7	124	LEU
44	L7	128	LYS
44	L7	129	LEU
44	L7	134	VAL
44	L7	140	SER
44	L7	143	THR
44	L7	157	ASN
44	L7	158	LYS
44	L7	161	VAL
44	L7	179	LEU
44	L7	181	ILE
44	L7	182	ASP
44	L7	184	LEU
44	L7	196	LYS
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	41	GLN
45	L8	43	LYS
45	L8	54	GLU
45	L8	71	VAL
45	L8	74	THR
45	L8	77	GLN
45	L8	79	GLN
45	L8	81	THR
45	L8	84	ARG
45	L8	95	ASN
45	L8	110	THR
45	L8	118	GLU
45	L8	126	SER
45	L8	136	LEU
45	L8	145	ASN
45	L8	149	LYS
45	L8	150	LEU
45	L8	156	ASP
45	L8	157	VAL

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Mol	Chain	Res	Type
45	L8	169	LEU
45	L8	180	VAL
45	L8	185	ARG
45	L8	190	VAL
45	L8	203	VAL
45	L8	218	ILE
45	L8	221	ASN
45	L8	229	VAL
45	L8	246	MET
46	L9	1	MET
46	L9	5	GLN
46	L9	9	GLN
46	L9	16	VAL
46	L9	18	VAL
46	L9	24	ILE
46	L9	38	LEU
46	L9	41	ILE
46	L9	42	ASP
46	L9	44	THR
46	L9	48	VAL
46	L9	52	LEU
46	L9	55	VAL
46	L9	65	VAL
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	74	LEU
46	L9	100	ASN
46	L9	118	LEU
46	L9	132	VAL
46	L9	133	THR
46	L9	139	ASN
46	L9	146	LEU
46	L9	151	VAL
46	L9	152	GLU
46	L9	155	SER
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	167	VAL
46	L9	169	ASN

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Mol	Chain	Res	Type
46	L9	170	LYS
46	L9	172	ILE
46	L9	173	ARG
46	L9	182	SER
46	L9	183	HIS
46	L9	189	GLU
46	L9	191	LEU
47	M0	3	ARG
47	M0	4	ARG
47	M0	7	ARG
47	M0	26	VAL
47	M0	32	ARG
47	M0	33	ILE
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	57	LEU
47	M0	63	GLU
47	M0	82	ARG
47	M0	83	ASP
47	M0	87	LEU
47	M0	89	VAL
47	M0	91	VAL
47	M0	116	ARG
47	M0	121	LYS
47	M0	128	ARG
47	M0	129	VAL
47	M0	133	GLN
47	M0	138	VAL
47	M0	140	THR
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	170	LYS
47	M0	174	THR
47	M0	175	ASN
47	M0	177	ASP
47	M0	197	VAL
47	M0	203	LYS
47	M0	207	GLU
48	M1	10	ARG
48	M1	11	ASP

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Mol	Chain	Res	Type
48	M1	12	LEU
48	M1	13	LYS
48	M1	17	LEU
48	M1	19	LEU
48	M1	22	SER
48	M1	28	ASP
48	M1	39	GLN
48	M1	40	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	47	GLN
48	M1	71	VAL
48	M1	80	LEU
48	M1	82	ARG
48	M1	85	LYS
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	137	ARG
48	M1	140	ARG
48	M1	142	LYS
48	M1	147	THR
48	M1	148	VAL
48	M1	161	SER
48	M1	166	LYS
48	M1	171	VAL
48	M1	173	ASP
49	M3	23	LYS
49	M3	24	VAL
49	M3	53	LEU
49	M3	54	LEU
49	M3	55	ARG
49	M3	58	VAL
49	M3	68	LYS
49	M3	69	VAL
49	M3	100	ARG
49	M3	107	GLU
49	M3	112	ASN
49	M3	114	GLN
49	M3	117	LYS

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Mol	Chain	Res	Type
49	M3	123	ILE
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	138	VAL
49	M3	147	ILE
49	M3	153	ASP
49	M3	164	GLU
49	M3	169	THR
49	M3	171	ARG
50	M4	8	LYS
50	M4	15	VAL
50	M4	27	GLN
50	M4	28	SER
50	M4	38	ILE
50	M4	50	LYS
50	M4	53	VAL
50	M4	58	ILE
50	M4	72	LEU
50	M4	83	LYS
50	M4	90	VAL
50	M4	102	LYS
50	M4	105	GLN
50	M4	108	ARG
50	M4	112	LEU
50	M4	120	VAL
50	M4	124	ARG
50	M4	128	ARG
50	M4	133	LYS
50	M4	135	LEU
51	M5	12	ARG
51	M5	18	VAL
51	M5	22	LEU
51	M5	38	ARG
51	M5	43	THR
51	M5	46	ASP
51	M5	49	ARG
51	M5	64	VAL
51	M5	75	VAL
51	M5	80	THR
51	M5	90	ASN
51	M5	92	LEU

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Mol	Chain	Res	Type
51	M5	97	SER
51	M5	101	THR
51	M5	106	VAL
51	M5	121	VAL
51	M5	132	VAL
51	M5	133	ILE
51	M5	138	GLN
51	M5	151	ILE
51	M5	159	ARG
51	M5	170	LYS
51	M5	171	SER
51	M5	178	HIS
51	M5	182	ASN
51	M5	187	ARG
51	M5	188	ARG
51	M5	194	GLN
51	M5	196	THR
51	M5	204	LYS
52	M6	22	VAL
52	M6	25	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	42	ASN
52	M6	67	THR
52	M6	77	SER
52	M6	78	ARG
52	M6	79	ILE
52	M6	85	ARG
52	M6	96	LYS
52	M6	106	GLU
52	M6	110	PRO
52	M6	116	LYS
52	M6	124	LEU
52	M6	128	ARG
52	M6	143	THR
52	M6	160	ARG
52	M6	161	LYS
52	M6	184	THR
52	M6	189	ASP
52	M6	190	VAL
53	M7	7	THR
53	M7	10	ASN

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Mol	Chain	Res	Type
53	M7	18	ARG
53	M7	23	ARG
53	M7	24	VAL
53	M7	29	THR
53	M7	36	ILE
53	M7	41	LEU
53	M7	51	VAL
53	M7	52	LEU
53	M7	55	GLN
53	M7	56	ARG
53	M7	67	ILE
53	M7	69	ARG
53	M7	72	GLN
53	M7	91	VAL
53	M7	95	LEU
53	M7	112	LEU
53	M7	114	VAL
53	M7	118	GLN
53	M7	119	VAL
53	M7	127	ARG
53	M7	128	ARG
53	M7	129	THR
53	M7	136	ILE
53	M7	137	ASN
53	M7	142	SER
53	M7	144	SER
53	M7	148	LEU
53	M7	157	VAL
53	M7	166	VAL
53	M7	168	LEU
53	M7	171	ARG
53	M7	180	LYS
53	M7	181	ARG
54	M8	3	ILE
54	M8	6	THR
54	M8	11	LYS
54	M8	17	THR
54	M8	21	SER
54	M8	22	ASP
54	M8	24	VAL
54	M8	26	LEU
54	M8	32	LEU

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Mol	Chain	Res	Type
54	M8	39	ARG
54	M8	40	THR
54	M8	41	ASP
54	M8	49	LEU
54	M8	80	THR
54	M8	98	LYS
54	M8	111	ARG
54	M8	113	LYS
54	M8	115	VAL
54	M8	135	GLN
54	M8	147	ARG
54	M8	161	LYS
54	M8	166	LEU
54	M8	174	ARG
55	M9	5	ARG
55	M9	17	VAL
55	M9	31	GLU
55	M9	44	LEU
55	M9	49	THR
55	M9	51	VAL
55	M9	52	LYS
55	M9	59	SER
55	M9	60	LYS
55	M9	74	ARG
55	M9	81	ARG
55	M9	86	GLU
55	M9	92	GLN
55	M9	104	ARG
55	M9	115	ILE
55	M9	116	ASP
55	M9	123	LEU
55	M9	135	LYS
55	M9	138	LEU
55	M9	139	VAL
55	M9	143	ILE
55	M9	164	LEU
55	M9	173	ARG
55	M9	180	LYS
56	N0	1	MET
56	N0	8	GLN
56	N0	12	ARG
56	N0	16	THR

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Mol	Chain	Res	Type
56	N0	21	GLU
56	N0	45	LEU
56	N0	47	LYS
56	N0	51	VAL
56	N0	58	ILE
56	N0	61	ILE
56	N0	70	THR
56	N0	71	LYS
56	N0	79	VAL
56	N0	80	ARG
56	N0	87	THR
56	N0	100	VAL
56	N0	105	THR
56	N0	122	HIS
56	N0	125	LYS
56	N0	132	THR
56	N0	136	LYS
56	N0	137	ARG
56	N0	142	GLN
56	N0	155	ARG
56	N0	156	VAL
56	N0	157	GLN
56	N0	162	THR
56	N0	171	PHE
57	N1	11	THR
57	N1	25	VAL
57	N1	26	HIS
57	N1	27	LEU
57	N1	29	THR
57	N1	32	LYS
57	N1	49	GLN
57	N1	50	LYS
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	88	ARG
57	N1	89	LEU
57	N1	92	ARG
57	N1	93	VAL
57	N1	96	ILE
57	N1	104	GLU

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Mol	Chain	Res	Type
57	N1	106	LEU
57	N1	122	GLN
57	N1	124	VAL
57	N1	126	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	131	GLN
57	N1	139	ARG
57	N1	143	THR
57	N1	149	GLN
57	N1	154	VAL
57	N1	158	THR
58	N2	16	THR
58	N2	19	VAL
58	N2	38	ILE
58	N2	49	ASN
58	N2	50	LEU
58	N2	52	ASN
58	N2	61	THR
58	N2	74	LYS
58	N2	93	ILE
58	N2	94	ARG
58	N2	100	THR
58	N2	105	LEU
59	N3	13	ILE
59	N3	36	ILE
59	N3	48	ARG
59	N3	54	LEU
59	N3	63	LYS
59	N3	69	LEU
59	N3	83	LYS
59	N3	98	ASN
59	N3	102	ILE
59	N3	104	ASN
59	N3	120	LYS
59	N3	124	ASP
59	N3	132	ASN
59	N3	133	SER
59	N3	135	VAL
60	N4	5	ILE
60	N4	7	SER
61	N5	26	VAL

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Mol	Chain	Res	Type
61	N5	27	ARG
61	N5	29	SER
61	N5	31	THR
61	N5	34	LEU
61	N5	38	LEU
61	N5	39	LYS
61	N5	57	LEU
61	N5	59	SER
61	N5	63	ILE
61	N5	71	THR
61	N5	73	MET
61	N5	81	ILE
61	N5	83	VAL
61	N5	87	SER
61	N5	92	LYS
61	N5	99	VAL
61	N5	105	VAL
61	N5	108	LEU
61	N5	112	THR
61	N5	113	LEU
61	N5	115	ARG
61	N5	124	VAL
61	N5	125	ARG
61	N5	133	LEU
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	4	GLN
62	N6	6	LEU
62	N6	8	VAL
62	N6	10	SER
62	N6	13	ARG
62	N6	37	LYS
62	N6	39	LEU
62	N6	48	LEU
62	N6	56	VAL
62	N6	57	LEU
62	N6	70	ILE
62	N6	72	SER
62	N6	76	LEU
62	N6	78	PHE

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Mol	Chain	Res	Type
62	N6	87	LYS
62	N6	88	GLU
62	N6	90	VAL
62	N6	95	VAL
62	N6	105	VAL
62	N6	110	HIS
62	N6	113	LYS
62	N6	115	ARG
62	N6	125	LYS
62	N6	126	LEU
63	N7	5	LEU
63	N7	17	ARG
63	N7	26	VAL
63	N7	27	LYS
63	N7	34	LYS
63	N7	46	ILE
63	N7	57	HIS
63	N7	75	VAL
63	N7	81	LEU
63	N7	86	THR
63	N7	87	LEU
63	N7	90	GLU
63	N7	102	GLU
63	N7	114	VAL
63	N7	134	LEU
64	N8	6	THR
64	N8	7	LYS
64	N8	8	THR
64	N8	16	SER
64	N8	19	LYS
64	N8	34	MET
64	N8	42	ARG
64	N8	47	LYS
64	N8	56	VAL
64	N8	60	TYR
64	N8	73	LEU
64	N8	74	ASN
64	N8	78	LEU
64	N8	91	LEU
64	N8	97	GLU
64	N8	104	THR
64	N8	115	LYS

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Mol	Chain	Res	Type
64	N8	118	ILE
64	N8	120	ASN
64	N8	130	VAL
64	N8	139	ARG
65	N9	14	ARG
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	38	LYS
65	N9	50	THR
65	N9	59	LYS
66	O0	16	LEU
66	O0	31	VAL
66	O0	32	LYS
66	O0	33	SER
66	O0	34	LEU
66	O0	41	LEU
66	O0	43	ILE
66	O0	48	THR
66	O0	54	SER
66	O0	56	LEU
66	O0	61	MET
66	O0	79	THR
66	O0	83	LYS
66	O0	97	ASP
66	O0	99	ASP
66	O0	104	LEU
67	O1	8	VAL
67	O1	16	LEU
67	O1	18	LYS
67	O1	27	LYS
67	O1	36	ILE
67	O1	47	ASP
67	O1	55	LEU
67	O1	68	GLU
67	O1	73	LEU
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG
67	O1	86	LYS
67	O1	89	LEU

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Mol	Chain	Res	Type
67	O1	93	VAL
67	O1	96	VAL
68	O2	4	LEU
68	O2	10	VAL
68	O2	16	LYS
68	O2	19	ARG
68	O2	26	HIS
68	O2	27	ARG
68	O2	28	VAL
68	O2	33	ARG
68	O2	50	ILE
68	O2	54	LYS
68	O2	61	LYS
68	O2	62	LYS
68	O2	67	SER
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	79	VAL
68	O2	82	LEU
68	O2	84	THR
68	O2	86	THR
68	O2	88	HIS
68	O2	106	VAL
68	O2	109	LEU
68	O2	125	ARG
69	O3	4	SER
69	O3	15	SER
69	O3	22	VAL
69	O3	28	SER
69	O3	37	THR
69	O3	45	LEU
69	O3	59	VAL
69	O3	67	MET
69	O3	70	LYS
69	O3	80	VAL
69	O3	81	VAL
69	O3	98	VAL
70	O4	5	VAL
70	O4	8	ARG
70	O4	22	VAL
70	O4	24	LYS

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Mol	Chain	Res	Type
70	O4	49	SER
70	O4	51	LEU
70	O4	52	GLN
70	O4	54	ILE
70	O4	58	ARG
70	O4	65	VAL
70	O4	68	THR
70	O4	86	LYS
70	O4	88	ARG
70	O4	102	LYS
71	O5	13	SER
71	O5	15	GLU
71	O5	22	VAL
71	O5	27	GLU
71	O5	28	LEU
71	O5	30	GLU
71	O5	31	LEU
71	O5	45	LYS
71	O5	46	THR
71	O5	47	VAL
71	O5	49	LYS
71	O5	58	ILE
71	O5	71	LYS
71	O5	85	THR
71	O5	89	ARG
71	O5	101	THR
71	O5	102	GLU
71	O5	104	GLN
71	O5	107	LYS
71	O5	111	PHE
71	O5	115	LYS
71	O5	119	LYS
72	O6	7	ILE
72	O6	11	LEU
72	O6	13	LYS
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	34	SER
72	O6	36	ARG
72	O6	44	VAL
72	O6	45	ARG

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Mol	Chain	Res	Type
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	62	ARG
72	O6	68	ARG
72	O6	81	THR
72	O6	87	VAL
72	O6	88	GLU
73	O7	13	ASN
73	O7	17	THR
73	O7	25	ARG
73	O7	33	THR
73	O7	36	SER
73	O7	44	THR
73	O7	45	ARG
73	O7	52	LYS
73	O7	58	THR
73	O7	65	ARG
73	O7	67	LEU
73	O7	76	ASN
73	O7	80	THR
73	O7	85	LYS
74	O8	8	ILE
74	O8	22	THR
74	O8	31	LEU
74	O8	32	ASN
74	O8	40	GLN
74	O8	41	THR
74	O8	45	VAL
74	O8	50	SER
74	O8	53	THR
74	O8	54	LEU
74	O8	57	ASN
74	O8	61	LYS
74	O8	64	LYS
74	O8	65	LEU
74	O8	66	ILE
74	O8	67	GLN
74	O8	69	LEU
74	O8	72	THR
74	O8	77	ARG
75	O9	4	GLN

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Mol	Chain	Res	Type
75	O9	9	ILE
75	O9	19	GLN
75	O9	21	ARG
75	O9	23	LEU
75	O9	29	LEU
75	O9	34	THR
75	O9	37	TYR
75	O9	45	ARG
75	O9	51	ILE
76	Q0	77	ILE
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	99	CYS
76	Q0	106	ARG
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	11	ARG
77	Q1	13	LEU
77	Q1	17	ARG
77	Q1	21	ARG
78	Q2	3	ASN
78	Q2	8	ARG
78	Q2	9	LYS
78	Q2	16	THR
78	Q2	17	CYS
78	Q2	24	LYS
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	45	ARG
78	Q2	54	THR
78	Q2	55	LYS
78	Q2	60	LYS
78	Q2	61	LYS
78	Q2	64	THR
78	Q2	78	LYS
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	93	LEU

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Mol	Chain	Res	Type
79	Q3	11	THR
79	Q3	16	VAL
79	Q3	28	LYS
79	Q3	32	GLN
79	Q3	45	LYS
79	Q3	49	ARG
79	Q3	57	CYS
79	Q3	71	VAL
79	Q3	73	THR
79	Q3	91	GLU
2	s0	6	THR
2	s0	9	LEU
2	s0	22	THR
2	s0	24	LEU
2	s0	30	GLN
2	s0	37	VAL
2	s0	39	ASN
2	s0	45	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	87	LEU
2	s0	96	THR
2	s0	98	ILE
2	s0	101	ARG
2	s0	108	THR
2	s0	110	TYR
2	s0	112	THR
2	s0	119	ARG
2	s0	135	GLU
2	s0	144	ILE
2	s0	154	GLU
2	s0	172	LEU
2	s0	177	LEU
2	s0	188	LEU
2	s0	189	VAL
3	s1	26	ARG
3	s1	36	SER
3	s1	37	THR
3	s1	39	GLU
3	s1	47	LEU
3	s1	51	SER
3	s1	62	LYS

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Mol	Chain	Res	Type
3	s1	65	VAL
3	s1	66	VAL
3	s1	68	VAL
3	s1	70	LEU
3	s1	73	LEU
3	s1	74	GLN
3	s1	78	ASP
3	s1	84	ILE
3	s1	85	LYS
3	s1	90	GLU
3	s1	122	GLU
3	s1	125	VAL
3	s1	126	THR
3	s1	152	ARG
3	s1	159	SER
3	s1	173	THR
3	s1	181	LEU
3	s1	184	LEU
3	s1	185	THR
3	s1	191	GLU
3	s1	197	ILE
3	s1	210	ILE
3	s1	217	LEU
3	s1	219	LYS
3	s1	228	LEU
3	s1	231	LEU
3	s1	234	GLU
4	s2	38	VAL
4	s2	41	LEU
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	69	ILE
4	s2	70	ASP
4	s2	72	LEU
4	s2	80	VAL
4	s2	81	MET
4	s2	82	ASN
4	s2	83	ILE
4	s2	90	THR
4	s2	97	ARG
4	s2	101	VAL

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Mol	Chain	Res	Type
4	s2	102	VAL
4	s2	106	ASP
4	s2	107	SER
4	s2	111	VAL
4	s2	113	LEU
4	s2	117	THR
4	s2	126	ARG
4	s2	130	ILE
4	s2	131	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	159	THR
4	s2	164	SER
4	s2	166	THR
4	s2	167	VAL
4	s2	170	ILE
4	s2	194	GLU
4	s2	198	THR
4	s2	207	LEU
4	s2	208	GLU
4	s2	218	ILE
4	s2	221	THR
4	s2	225	LEU
4	s2	226	THR
4	s2	232	GLU
4	s2	237	VAL
4	s2	240	LEU
4	s2	242	ILE
5	s3	4	LEU
5	s3	9	ARG
5	s3	21	LEU
5	s3	44	THR
5	s3	59	LEU
5	s3	67	ASN
5	s3	76	ARG
5	s3	84	ILE
5	s3	91	VAL
5	s3	99	VAL
5	s3	103	GLU
5	s3	111	ASN
5	s3	115	ILE
5	s3	117	ARG

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Mol	Chain	Res	Type
5	s3	127	MET
5	s3	132	LYS
5	s3	158	ILE
5	s3	162	GLN
5	s3	164	VAL
5	s3	176	LEU
5	s3	179	GLN
5	s3	189	MET
5	s3	207	THR
5	s3	212	LYS
5	s3	213	GLU
5	s3	215	GLU
6	s4	6	LYS
6	s4	9	LEU
6	s4	22	LYS
6	s4	38	LEU
6	s4	42	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	56	LEU
6	s4	57	ASN
6	s4	65	LEU
6	s4	67	GLN
6	s4	70	VAL
6	s4	73	ASP
6	s4	77	ARG
6	s4	78	THR
6	s4	92	LEU
6	s4	102	VAL
6	s4	105	VAL
6	s4	113	ARG
6	s4	116	ASP
6	s4	129	VAL
6	s4	131	LEU
6	s4	147	ILE
6	s4	148	ARG
6	s4	160	VAL
6	s4	170	THR
6	s4	176	ASP
6	s4	180	LEU
6	s4	181	VAL
6	s4	191	ARG

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Mol	Chain	Res	Type
6	s4	192	ILE
6	s4	196	VAL
6	s4	219	VAL
6	s4	221	ARG
6	s4	223	ASN
6	s4	237	SER
6	s4	246	LEU
6	s4	248	ILE
6	s4	252	ARG
6	s4	254	ARG
6	s4	255	ARG
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	38	THR
7	s5	45	LYS
7	s5	58	LEU
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	86	GLN
7	s5	87	CYS
7	s5	89	ILE
7	s5	93	LEU
7	s5	99	MET
7	s5	102	ARG
7	s5	114	ILE
7	s5	119	ASP
7	s5	137	ILE
7	s5	157	ARG
7	s5	162	VAL
7	s5	194	LEU
7	s5	199	ILE
7	s5	203	LYS
7	s5	206	SER
7	s5	208	SER
7	s5	213	LYS
7	s5	219	ARG
8	s6	21	GLU
8	s6	67	VAL
8	s6	71	THR

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Mol	Chain	Res	Type
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	81	VAL
8	s6	93	LYS
8	s6	97	VAL
8	s6	109	LEU
8	s6	119	GLN
8	s6	121	LEU
8	s6	124	LEU
8	s6	125	THR
8	s6	128	THR
8	s6	143	LYS
8	s6	151	ASP
8	s6	157	VAL
8	s6	163	THR
8	s6	168	THR
8	s6	169	TYR
8	s6	170	THR
8	s6	175	ILE
8	s6	177	ARG
8	s6	203	GLU
8	s6	211	LEU
8	s6	212	LEU
8	s6	215	ARG
9	s7	11	GLN
9	s7	24	PHE
9	s7	28	GLU
9	s7	33	GLU
9	s7	50	ASP
9	s7	64	VAL
9	s7	67	LEU
9	s7	77	LEU
9	s7	80	GLU
9	s7	86	GLN
9	s7	87	ASP
9	s7	90	VAL
9	s7	95	GLU
9	s7	97	ARG
9	s7	105	THR
9	s7	110	GLN
9	s7	114	ARG

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Mol	Chain	Res	Type
9	s7	116	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	123	ASP
9	s7	125	ILE
9	s7	129	LEU
9	s7	134	GLU
9	s7	143	LEU
9	s7	144	VAL
9	s7	160	GLN
9	s7	166	LEU
9	s7	185	ILE
10	s8	4	SER
10	s8	10	LYS
10	s8	17	LYS
10	s8	18	ARG
10	s8	25	ARG
10	s8	26	LYS
10	s8	29	LEU
10	s8	46	VAL
10	s8	59	ARG
10	s8	60	ILE
10	s8	61	GLU
10	s8	72	ILE
10	s8	89	GLU
10	s8	105	ASP
10	s8	138	ASN
10	s8	152	ILE
10	s8	153	GLU
10	s8	155	SER
10	s8	165	LEU
10	s8	168	CYS
10	s8	175	GLN
10	s8	176	SER
10	s8	184	LEU
10	s8	199	LYS
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	14	THR
11	s9	21	SER
11	s9	28	LEU

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Mol	Chain	Res	Type
11	s9	49	LEU
11	s9	57	ARG
11	s9	78	ARG
11	s9	82	ARG
11	s9	87	SER
11	s9	89	ASP
11	s9	93	LEU
11	s9	96	VAL
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	110	GLN
11	s9	130	THR
11	s9	133	HIS
11	s9	134	ILE
11	s9	143	ILE
11	s9	149	ARG
11	s9	151	ASP
11	s9	156	ILE
11	s9	172	VAL
12	c0	2	LEU
12	c0	5	LYS
12	c0	15	LEU
12	c0	33	GLU
12	c0	36	ASP
12	c0	47	GLN
12	c0	55	VAL
12	c0	67	THR
12	c0	76	LEU
12	c0	77	ARG
12	c0	79	TYR
13	c1	4	GLU
13	c1	5	LEU
13	c1	25	VAL
13	c1	33	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	46	LYS
13	c1	47	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	61	THR

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Mol	Chain	Res	Type
13	c1	69	LYS
13	c1	74	THR
13	c1	76	VAL
13	c1	78	THR
13	c1	80	MET
13	c1	83	THR
13	c1	90	TYR
13	c1	94	ILE
13	c1	105	LYS
13	c1	111	VAL
13	c1	129	ARG
13	c1	131	ILE
13	c1	140	VAL
14	c2	28	LEU
14	c2	43	ARG
14	c2	45	LEU
14	c2	61	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	85	LYS
14	c2	86	VAL
14	c2	89	ILE
14	c2	103	LEU
14	c2	125	ASN
14	c2	129	GLU
14	c2	136	ILE
15	c3	6	SER
15	c3	16	ILE
15	c3	20	ARG
15	c3	33	VAL
15	c3	37	ILE
15	c3	52	VAL
15	c3	53	LEU
15	c3	60	VAL
15	c3	66	ILE
15	c3	67	THR
15	c3	70	LYS
15	c3	78	ASN
15	c3	84	ILE
15	c3	87	ASP
15	c3	102	LEU
15	c3	115	LEU

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Mol	Chain	Res	Type
15	c3	134	VAL
15	c3	138	ASN
16	c4	13	VAL
16	c4	26	THR
16	c4	31	THR
16	c4	48	VAL
16	c4	49	LYS
16	c4	51	ASP
16	c4	62	LEU
16	c4	79	VAL
16	c4	89	THR
16	c4	93	THR
16	c4	102	LEU
16	c4	103	ARG
16	c4	114	ARG
16	c4	118	VAL
16	c4	123	SER
16	c4	124	ASP
16	c4	127	ARG
16	c4	133	ARG
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	20	VAL
17	c5	21	ASP
17	c5	27	GLU
17	c5	36	LEU
17	c5	40	ARG
17	c5	49	MET
17	c5	51	SER
17	c5	65	LEU
17	c5	69	GLU
17	c5	71	GLU
17	c5	77	ARG
17	c5	102	PHE
17	c5	105	VAL
17	c5	106	GLU
17	c5	110	GLU
17	c5	121	ILE
17	c5	122	THR
17	c5	134	THR
18	c6	6	SER

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Mol	Chain	Res	Type
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	31	VAL
18	c6	37	THR
18	c6	43	ILE
18	c6	53	LEU
18	c6	57	LEU
18	c6	62	ASN
18	c6	67	VAL
18	c6	69	VAL
18	c6	110	THR
18	c6	114	ARG
18	c6	118	ILE
18	c6	128	LYS
18	c6	137	ARG
19	c7	25	THR
19	c7	30	THR
19	c7	34	LEU
19	c7	46	LEU
19	c7	47	ARG
19	c7	49	LYS
19	c7	54	THR
19	c7	61	ILE
19	c7	69	ILE
19	c7	76	GLU
19	c7	77	GLU
19	c7	80	ARG
19	c7	85	VAL
19	c7	110	VAL
19	c7	113	LEU
20	c8	3	LEU
20	c8	6	GLN
20	c8	8	GLN
20	c8	15	LEU
20	c8	18	LEU
20	c8	19	ASN
20	c8	21	ASN
20	c8	33	THR
20	c8	36	LYS
20	c8	55	HIS
20	c8	63	GLN

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Mol	Chain	Res	Type
20	c8	66	LEU
20	c8	75	ASN
20	c8	85	PHE
20	c8	94	ASP
20	c8	100	THR
20	c8	104	ASN
20	c8	106	GLU
20	c8	116	LEU
20	c8	117	LYS
20	c8	119	ILE
20	c8	133	VAL
20	c8	136	GLN
20	c8	138	THR
20	c8	141	THR
20	c8	143	ARG
21	c9	6	VAL
21	c9	9	VAL
21	c9	22	LEU
21	c9	27	LYS
21	c9	28	LEU
21	c9	57	ARG
21	c9	68	ARG
21	c9	71	VAL
21	c9	94	ILE
21	c9	103	LYS
21	c9	116	ILE
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	132	LEU
21	c9	140	LEU
22	d0	20	ILE
22	d0	23	ARG
22	d0	24	ILE
22	d0	27	THR
22	d0	30	LYS
22	d0	36	ASN
22	d0	41	ILE
22	d0	42	VAL
22	d0	44	ASN
22	d0	53	LYS
22	d0	57	ARG

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Mol	Chain	Res	Type
22	d0	60	THR
22	d0	63	LEU
22	d0	66	SER
22	d0	70	THR
22	d0	72	ASN
22	d0	74	GLU
22	d0	77	LYS
22	d0	81	THR
22	d0	97	VAL
22	d0	98	GLN
22	d0	99	ILE
22	d0	103	ILE
22	d0	107	THR
22	d0	118	VAL
23	d1	5	LYS
23	d1	8	LEU
23	d1	12	TYR
23	d1	16	LYS
23	d1	20	THR
23	d1	25	LYS
23	d1	32	VAL
23	d1	33	GLN
23	d1	34	ILE
23	d1	38	LYS
23	d1	42	GLU
23	d1	50	TYR
23	d1	62	ARG
23	d1	68	SER
23	d1	69	LEU
23	d1	72	LEU
23	d1	76	ASP
23	d1	81	ASN
23	d1	82	VAL
24	d2	7	LEU
24	d2	9	ASP
24	d2	15	ASN
24	d2	24	GLN
24	d2	25	VAL
24	d2	28	ARG
24	d2	31	SER
24	d2	35	ILE
24	d2	47	ILE

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Mol	Chain	Res	Type
24	d2	55	ASP
24	d2	65	LEU
24	d2	68	ARG
24	d2	88	LYS
24	d2	98	GLN
24	d2	103	ILE
24	d2	112	ASP
24	d2	124	LYS
24	d2	126	LEU
24	d2	129	VAL
25	d3	9	LEU
25	d3	15	LEU
25	d3	19	ARG
25	d3	28	ASN
25	d3	31	LYS
25	d3	40	SER
25	d3	52	ILE
25	d3	69	ARG
25	d3	73	ARG
25	d3	79	ASN
25	d3	84	THR
25	d3	96	VAL
25	d3	97	ASP
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	125	VAL
25	d3	127	VAL
25	d3	132	LEU
25	d3	133	LEU
25	d3	141	GLU
25	d3	144	ARG
26	d4	3	ASP
26	d4	6	THR
26	d4	26	ASP
26	d4	29	HIS
26	d4	30	PRO
26	d4	31	ASN
26	d4	44	LEU
26	d4	47	VAL
26	d4	55	VAL
26	d4	58	PHE

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Mol	Chain	Res	Type
26	d4	62	THR
26	d4	70	VAL
26	d4	78	SER
26	d4	86	GLU
26	d4	88	THR
26	d4	91	LEU
26	d4	110	GLN
26	d4	116	LYS
26	d4	118	ILE
26	d4	125	LEU
27	d5	40	VAL
27	d5	41	ILE
27	d5	43	ASP
27	d5	54	VAL
27	d5	57	TYR
27	d5	60	VAL
27	d5	62	VAL
27	d5	71	ILE
27	d5	90	LYS
27	d5	97	LYS
27	d5	102	THR
28	d6	10	ARG
28	d6	11	ASN
28	d6	24	VAL
28	d6	25	ASN
28	d6	36	ILE
28	d6	41	ILE
28	d6	89	ARG
28	d6	90	GLU
29	d7	2	VAL
29	d7	3	LEU
29	d7	25	VAL
29	d7	34	ASP
29	d7	36	LYS
29	d7	41	LEU
29	d7	43	ILE
29	d7	46	VAL
29	d7	52	THR
29	d7	56	CYS
29	d7	59	CYS
29	d7	67	THR
29	d7	72	LYS

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Mol	Chain	Res	Type
29	d7	77	THR
30	d8	15	VAL
30	d8	25	VAL
30	d8	28	VAL
30	d8	33	LEU
30	d8	36	THR
30	d8	39	THR
30	d8	42	ARG
30	d8	44	VAL
30	d8	49	ARG
30	d8	54	LEU
30	d8	57	MET
30	d8	58	GLU
30	d8	62	GLU
30	d8	64	ARG
30	d8	65	ARG
31	d9	5	ASN
31	d9	10	HIS
31	d9	22	ARG
31	d9	25	SER
31	d9	30	LEU
31	d9	31	ILE
31	d9	36	LEU
31	d9	38	ILE
32	e0	4	VAL
32	e0	13	LYS
32	e0	15	LYS
32	e0	21	VAL
32	e0	23	LYS
32	e0	24	THR
32	e0	28	LYS
32	e0	39	LEU
32	e0	41	THR
32	e0	44	PHE
32	e0	45	VAL
32	e0	47	VAL
32	e0	48	THR
32	e0	49	LEU
32	e0	50	VAL
32	e0	54	ARG
32	e0	55	ARG
32	e0	62	VAL

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Mol	Chain	Res	Type
33	e1	84	VAL
33	e1	86	THR
33	e1	97	LYS
33	e1	98	VAL
33	e1	103	LEU
33	e1	106	TYR
33	e1	107	LYS
33	e1	108	VAL
33	e1	113	LYS
33	e1	115	THR
33	e1	116	LYS
33	e1	117	LEU
33	e1	147	VAL
33	e1	151	ASN
34	sR	5	GLU
34	sR	25	THR
34	sR	48	THR
34	sR	64	HIS
34	sR	66	HIS
34	sR	74	THR
34	sR	76	ASP
34	sR	107	LYS
34	sR	135	THR
34	sR	136	ILE
34	sR	145	LEU
34	sR	159	ASN
34	sR	160	GLU
34	sR	161	LYS
34	sR	164	ASP
34	sR	168	THR
34	sR	183	LEU
34	sR	188	ILE
34	sR	197	SER
34	sR	210	LEU
34	sR	245	PHE
34	sR	250	TYR
34	sR	286	GLU
34	sR	297	ASP
35	sM	34	LYS
35	sM	37	VAL
35	sM	41	SER
35	sM	48	ARG

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Mol	Chain	Res	Type
35	sM	50	ASN
35	sM	69	ARG
35	sM	74	LYS
35	sM	75	ASP
39	l2	7	ASN
39	l2	15	ILE
39	l2	23	ARG
39	l2	32	LEU
39	l2	41	ILE
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	71	LEU
39	l2	74	GLU
39	l2	79	ASN
39	l2	82	VAL
39	l2	86	GLN
39	l2	96	LEU
39	l2	98	VAL
39	l2	101	VAL
39	l2	104	LEU
39	l2	109	GLU
39	l2	112	ILE
39	l2	116	VAL
39	l2	118	GLU
39	l2	126	LEU
39	l2	134	VAL
39	l2	137	ILE
39	l2	147	ARG
39	l2	149	ARG
39	l2	157	VAL
39	l2	158	ILE
39	l2	159	SER
39	l2	165	VAL
39	l2	168	VAL
39	l2	179	LEU
39	l2	180	LEU
39	l2	193	ARG
39	l2	215	ASN
39	l2	216	HIS
39	l2	224	THR
39	l2	225	ILE

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Mol	Chain	Res	Type
39	l2	230	VAL
39	l2	241	ARG
39	l2	246	LEU
39	l2	249	SER
40	l3	3	HIS
40	l3	4	ARG
40	l3	5	LYS
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	20	LYS
40	l3	24	SER
40	l3	37	ARG
40	l3	43	LEU
40	l3	47	LEU
40	l3	55	THR
40	l3	56	ILE
40	l3	70	ARG
40	l3	77	THR
40	l3	79	VAL
40	l3	84	VAL
40	l3	85	VAL
40	l3	103	THR
40	l3	104	THR
40	l3	110	LEU
40	l3	114	VAL
40	l3	120	LYS
40	l3	139	GLN
40	l3	145	GLU
40	l3	148	LEU
40	l3	150	ARG
40	l3	169	THR
40	l3	171	LEU
40	l3	183	LEU
40	l3	187	SER
40	l3	188	ILE
40	l3	192	VAL
40	l3	193	ASP
40	l3	200	GLU
40	l3	201	LYS
40	l3	205	VAL
40	l3	206	ASP

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Mol	Chain	Res	Type
40	l3	207	SER
40	l3	208	VAL
40	l3	211	GLN
40	l3	214	MET
40	l3	221	THR
40	l3	227	GLU
40	l3	229	VAL
40	l3	232	ARG
40	l3	238	LEU
40	l3	246	LEU
40	l3	249	VAL
40	l3	252	ILE
40	l3	264	VAL
40	l3	266	ARG
40	l3	274	SER
40	l3	278	ILE
40	l3	284	ARG
40	l3	316	GLU
40	l3	322	ILE
40	l3	324	VAL
40	l3	328	ILE
40	l3	340	LYS
40	l3	341	SER
40	l3	347	SER
40	l3	348	ARG
40	l3	355	SER
40	l3	367	LYS
40	l3	382	THR
41	l4	16	THR
41	l4	27	SER
41	l4	33	ASP
41	l4	37	THR
41	l4	43	ASN
41	l4	47	ARG
41	l4	63	GLU
41	l4	67	THR
41	l4	69	ARG
41	l4	71	VAL
41	l4	92	ASN
41	l4	93	MET
41	l4	99	MET
41	l4	108	LYS

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Mol	Chain	Res	Type
41	l4	112	LYS
41	l4	118	LYS
41	l4	129	THR
41	l4	136	LEU
41	l4	144	LYS
41	l4	148	ILE
41	l4	150	LEU
41	l4	151	VAL
41	l4	156	LEU
41	l4	160	GLN
41	l4	161	LYS
41	l4	170	LYS
41	l4	172	VAL
41	l4	179	LEU
41	l4	187	LEU
41	l4	193	LYS
41	l4	200	THR
41	l4	203	ARG
41	l4	206	LEU
41	l4	207	VAL
41	l4	217	LYS
41	l4	220	ARG
41	l4	222	VAL
41	l4	227	THR
41	l4	230	VAL
41	l4	249	ILE
41	l4	258	LEU
41	l4	265	GLU
41	l4	267	VAL
41	l4	283	THR
41	l4	313	LEU
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	333	VAL
41	l4	339	LEU
41	l4	345	GLU
41	l4	347	THR
41	l4	359	LEU
42	l5	5	LYS
42	l5	9	SER
42	l5	34	LYS

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Mol	Chain	Res	Type
42	15	38	THR
42	15	41	LYS
42	15	51	LEU
42	15	52	VAL
42	15	61	ILE
42	15	65	ILE
42	15	70	THR
42	15	73	VAL
42	15	75	LEU
42	15	89	THR
42	15	110	LEU
42	15	111	GLN
42	15	112	LYS
42	15	113	LEU
42	15	118	THR
42	15	122	VAL
42	15	128	GLU
42	15	132	THR
42	15	133	GLU
42	15	135	VAL
42	15	137	ASP
42	15	144	VAL
42	15	146	LEU
42	15	148	ILE
42	15	155	THR
42	15	164	LYS
42	15	171	LEU
42	15	185	PHE
42	15	187	THR
42	15	189	GLU
42	15	206	GLN
42	15	208	MET
42	15	216	GLU
42	15	227	LEU
42	15	230	ASP
42	15	236	LEU
42	15	241	THR
42	15	242	SER
42	15	258	LYS
42	15	259	LYS
42	15	268	GLU
42	15	275	THR

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Mol	Chain	Res	Type
42	15	293	LEU
42	15	296	GLN
42	15	297	GLN
43	16	5	LYS
43	16	8	LYS
43	16	12	SER
43	16	15	VAL
43	16	21	THR
43	16	31	ARG
43	16	46	ARG
43	16	48	ARG
43	16	52	VAL
43	16	64	LEU
43	16	65	ILE
43	16	78	ARG
43	16	79	VAL
43	16	84	VAL
43	16	88	SER
43	16	91	VAL
43	16	94	GLU
43	16	98	VAL
43	16	103	VAL
43	16	109	GLU
43	16	131	LYS
43	16	141	VAL
43	16	152	THR
43	16	154	LEU
43	16	155	LEU
43	16	159	LEU
44	17	33	ARG
44	17	41	ARG
44	17	77	VAL
44	17	83	LEU
44	17	88	ARG
44	17	93	ASN
44	17	101	LYS
44	17	110	ARG
44	17	121	LYS
44	17	124	LEU
44	17	129	LEU
44	17	130	ILE
44	17	153	PHE

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Mol	Chain	Res	Type
44	17	156	ILE
44	17	158	LYS
44	17	165	ASP
44	17	168	ILE
44	17	173	LEU
44	17	175	LYS
44	17	176	TYR
44	17	179	LEU
44	17	184	LEU
44	17	189	ILE
44	17	191	VAL
44	17	194	HIS
44	17	196	LYS
44	17	199	ASN
44	17	228	SER
44	17	229	PHE
44	17	239	LEU
45	18	41	GLN
45	18	50	VAL
45	18	68	ARG
45	18	71	VAL
45	18	74	THR
45	18	79	GLN
45	18	101	THR
45	18	109	LEU
45	18	136	LEU
45	18	149	LYS
45	18	150	LEU
45	18	153	ILE
45	18	157	VAL
45	18	160	ILE
45	18	163	VAL
45	18	169	LEU
45	18	172	LYS
45	18	180	VAL
45	18	183	LYS
45	18	200	LEU
45	18	203	VAL
45	18	211	LEU
45	18	231	LYS
45	18	241	LYS
45	18	245	LYS

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Mol	Chain	Res	Type
45	18	248	LYS
46	19	1	MET
46	19	5	GLN
46	19	6	THR
46	19	17	THR
46	19	18	VAL
46	19	44	THR
46	19	52	LEU
46	19	55	VAL
46	19	62	ARG
46	19	68	LEU
46	19	73	SER
46	19	80	THR
46	19	106	LYS
46	19	107	ASP
46	19	118	LEU
46	19	120	ASP
46	19	122	LYS
46	19	132	VAL
46	19	133	THR
46	19	143	GLU
46	19	144	ILE
46	19	146	LEU
46	19	151	VAL
46	19	161	LEU
46	19	167	VAL
46	19	173	ARG
46	19	179	ILE
46	19	186	PHE
46	19	187	ILE
46	19	191	LEU
47	m0	3	ARG
47	m0	4	ARG
47	m0	19	LYS
47	m0	21	ARG
47	m0	26	VAL
47	m0	35	ASP
47	m0	36	LEU
47	m0	42	THR
47	m0	48	LEU
47	m0	52	LEU
47	m0	55	ASN

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Mol	Chain	Res	Type
47	m0	57	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	71	CYS
47	m0	74	LYS
47	m0	87	LEU
47	m0	90	ARG
47	m0	121	LYS
47	m0	125	LEU
47	m0	130	ASP
47	m0	137	SER
47	m0	140	THR
47	m0	148	VAL
47	m0	150	GLU
47	m0	154	ARG
47	m0	156	ARG
47	m0	163	GLN
47	m0	167	LEU
47	m0	177	ASP
47	m0	185	ARG
47	m0	205	SER
47	m0	207	GLU
47	m0	212	GLU
47	m0	215	GLU
48	m1	7	ASN
48	m1	9	MET
48	m1	10	ARG
48	m1	12	LEU
48	m1	30	LEU
48	m1	46	VAL
48	m1	55	ARG
48	m1	56	THR
48	m1	60	ARG
48	m1	80	LEU
48	m1	87	LYS
48	m1	95	ASN
48	m1	97	SER
48	m1	99	THR
48	m1	106	ILE
48	m1	107	ASP
48	m1	119	SER
48	m1	129	VAL

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Mol	Chain	Res	Type
48	m1	130	VAL
48	m1	137	ARG
48	m1	140	ARG
48	m1	142	LYS
48	m1	148	VAL
48	m1	153	LYS
48	m1	155	THR
48	m1	156	LYS
48	m1	159	THR
48	m1	161	SER
48	m1	171	VAL
48	m1	174	LYS
49	m3	4	SER
49	m3	46	ILE
49	m3	54	LEU
49	m3	57	VAL
49	m3	58	VAL
49	m3	69	VAL
49	m3	70	ARG
49	m3	107	GLU
49	m3	118	GLU
49	m3	123	ILE
49	m3	128	ARG
49	m3	131	LYS
49	m3	154	VAL
49	m3	160	GLN
49	m3	168	ARG
49	m3	183	ARG
49	m3	184	GLU
49	m3	189	GLU
50	m4	4	ASP
50	m4	8	LYS
50	m4	15	VAL
50	m4	20	VAL
50	m4	25	LYS
50	m4	28	SER
50	m4	37	GLU
50	m4	53	VAL
50	m4	58	ILE
50	m4	62	GLN
50	m4	63	VAL
50	m4	64	VAL

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Mol	Chain	Res	Type
50	m4	66	THR
50	m4	70	PHE
50	m4	72	LEU
50	m4	91	CYS
50	m4	107	GLU
50	m4	123	LEU
50	m4	126	GLN
50	m4	130	THR
50	m4	133	LYS
50	m4	135	LEU
50	m4	137	LYS
51	m5	5	LYS
51	m5	7	LEU
51	m5	10	LEU
51	m5	18	VAL
51	m5	19	LEU
51	m5	22	LEU
51	m5	36	ILE
51	m5	57	GLN
51	m5	76	PRO
51	m5	80	THR
51	m5	83	LYS
51	m5	85	THR
51	m5	96	ARG
51	m5	105	ARG
51	m5	106	VAL
51	m5	117	ASN
51	m5	118	SER
51	m5	138	GLN
51	m5	142	ILE
51	m5	152	CYS
51	m5	153	ASP
51	m5	176	LYS
51	m5	178	HIS
51	m5	179	LYS
51	m5	183	THR
51	m5	204	LYS
52	m6	12	LYS
52	m6	22	VAL
52	m6	25	LYS
52	m6	34	VAL
52	m6	43	ILE

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Mol	Chain	Res	Type
52	m6	67	THR
52	m6	78	ARG
52	m6	79	ILE
52	m6	85	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	118	VAL
52	m6	126	VAL
52	m6	140	LYS
52	m6	142	SER
52	m6	143	THR
52	m6	171	LYS
52	m6	175	THR
52	m6	178	VAL
52	m6	188	SER
53	m7	7	THR
53	m7	8	SER
53	m7	9	THR
53	m7	14	SER
53	m7	24	VAL
53	m7	41	LEU
53	m7	51	VAL
53	m7	52	LEU
53	m7	55	GLN
53	m7	69	ARG
53	m7	80	LYS
53	m7	112	LEU
53	m7	114	VAL
53	m7	115	SER
53	m7	119	VAL
53	m7	120	ASN
53	m7	124	LYS
53	m7	126	ARG
53	m7	136	ILE
53	m7	138	LYS
53	m7	144	SER
53	m7	148	LEU
53	m7	152	GLU
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER
54	m8	17	THR

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Mol	Chain	Res	Type
54	m8	23	ASN
54	m8	24	VAL
54	m8	26	LEU
54	m8	32	LEU
54	m8	49	LEU
54	m8	55	SER
54	m8	57	ILE
54	m8	63	SER
54	m8	69	ARG
54	m8	80	THR
54	m8	81	VAL
54	m8	84	VAL
54	m8	113	LYS
54	m8	135	GLN
54	m8	147	ARG
54	m8	165	ILE
54	m8	174	ARG
54	m8	181	SER
55	m9	6	THR
55	m9	10	LEU
55	m9	13	SER
55	m9	17	VAL
55	m9	20	ARG
55	m9	30	SER
55	m9	31	GLU
55	m9	43	LYS
55	m9	55	VAL
55	m9	63	THR
55	m9	74	ARG
55	m9	88	ARG
55	m9	105	LEU
55	m9	106	LEU
55	m9	134	HIS
55	m9	138	LEU
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	186	LYS
56	n0	1	MET
56	n0	17	GLU
56	n0	19	VAL
56	n0	21	GLU

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Mol	Chain	Res	Type
56	n0	32	SER
56	n0	34	GLU
56	n0	35	VAL
56	n0	45	LEU
56	n0	52	LYS
56	n0	73	LYS
56	n0	80	ARG
56	n0	87	THR
56	n0	88	HIS
56	n0	96	ASP
56	n0	97	VAL
56	n0	98	SER
56	n0	99	ARG
56	n0	100	VAL
56	n0	103	VAL
56	n0	104	GLU
56	n0	105	THR
56	n0	119	ARG
56	n0	120	SER
56	n0	123	ILE
56	n0	130	GLU
56	n0	132	THR
56	n0	136	LYS
56	n0	137	ARG
56	n0	142	GLN
56	n0	145	THR
56	n0	148	LEU
56	n0	155	ARG
56	n0	160	THR
56	n0	162	THR
56	n0	172	TYR
57	n1	12	ARG
57	n1	18	ASP
57	n1	25	VAL
57	n1	27	LEU
57	n1	33	VAL
57	n1	35	LYS
57	n1	71	SER
57	n1	76	ILE
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG

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Mol	Chain	Res	Type
57	n1	86	GLU
57	n1	89	LEU
57	n1	93	VAL
57	n1	96	ILE
57	n1	103	GLN
57	n1	104	GLU
57	n1	112	ASN
57	n1	124	VAL
57	n1	126	VAL
57	n1	131	GLN
57	n1	139	ARG
57	n1	141	VAL
57	n1	143	THR
57	n1	144	GLU
57	n1	149	GLN
57	n1	150	THR
57	n1	151	LEU
57	n1	154	VAL
58	n2	16	THR
58	n2	27	VAL
58	n2	37	LEU
58	n2	38	ILE
58	n2	43	VAL
58	n2	49	ASN
58	n2	54	VAL
58	n2	55	THR
58	n2	58	GLU
58	n2	62	VAL
58	n2	63	VAL
58	n2	64	THR
58	n2	68	THR
58	n2	72	SER
58	n2	96	VAL
58	n2	100	THR
59	n3	4	ASN
59	n3	7	GLN
59	n3	9	THR
59	n3	13	ILE
59	n3	14	SER
59	n3	15	LEU
59	n3	19	VAL
59	n3	22	ILE

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Mol	Chain	Res	Type
59	n3	48	ARG
59	n3	68	GLU
59	n3	69	LEU
59	n3	72	LYS
59	n3	73	VAL
59	n3	88	ARG
59	n3	98	ASN
59	n3	101	VAL
59	n3	106	LYS
60	n4	9	SER
60	n4	17	ARG
60	n4	19	THR
60	n4	27	LYS
60	n4	54	LEU
60	n4	57	LYS
60	n4	63	ILE
60	n4	89	LEU
60	n4	96	LEU
60	n4	109	LEU
60	n4	123	ARG
60	n4	126	GLU
60	n4	127	LYS
60	n4	133	THR
61	n5	24	LEU
61	n5	27	ARG
61	n5	29	SER
61	n5	37	THR
61	n5	38	LEU
61	n5	39	LYS
61	n5	57	LEU
61	n5	63	ILE
61	n5	73	MET
61	n5	108	LEU
61	n5	109	LYS
61	n5	112	THR
61	n5	115	ARG
61	n5	124	VAL
61	n5	125	ARG
61	n5	135	ILE
62	n6	7	ASP
62	n6	12	ARG
62	n6	13	ARG

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Mol	Chain	Res	Type
62	n6	17	LYS
62	n6	32	SER
62	n6	37	LYS
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	51	ARG
62	n6	56	VAL
62	n6	57	LEU
62	n6	59	VAL
62	n6	66	GLN
62	n6	67	GLU
62	n6	76	LEU
62	n6	90	VAL
62	n6	95	VAL
62	n6	115	ARG
62	n6	120	GLN
62	n6	121	ARG
63	n7	3	LYS
63	n7	17	ARG
63	n7	24	VAL
63	n7	26	VAL
63	n7	33	SER
63	n7	34	LYS
63	n7	46	ILE
63	n7	52	LYS
63	n7	54	THR
63	n7	56	LYS
63	n7	66	THR
63	n7	68	ILE
63	n7	72	ILE
63	n7	81	LEU
63	n7	83	THR
63	n7	90	GLU
63	n7	99	GLU
63	n7	100	THR
63	n7	103	GLN
63	n7	114	VAL
63	n7	126	LYS
63	n7	134	LEU
64	n8	6	THR
64	n8	8	THR

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Mol	Chain	Res	Type
64	n8	12	ARG
64	n8	15	VAL
64	n8	26	ARG
64	n8	34	MET
64	n8	42	ARG
64	n8	44	ASN
64	n8	46	ASP
64	n8	56	VAL
64	n8	64	GLN
64	n8	65	GLN
64	n8	67	HIS
64	n8	73	LEU
64	n8	78	LEU
64	n8	91	LEU
64	n8	97	GLU
64	n8	98	THR
64	n8	128	ARG
64	n8	130	VAL
64	n8	132	LYS
64	n8	133	LEU
65	n9	19	ASN
65	n9	21	ILE
65	n9	26	THR
65	n9	33	LYS
65	n9	40	ARG
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	9	SER
66	o0	10	ILE
66	o0	16	LEU
66	o0	19	LYS
66	o0	34	LEU
66	o0	40	LYS
66	o0	41	LEU
66	o0	50	VAL
66	o0	83	LYS
66	o0	86	ARG
66	o0	87	VAL
66	o0	100	ILE
66	o0	104	LEU
67	o1	13	THR

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Mol	Chain	Res	Type
67	o1	16	LEU
67	o1	24	SER
67	o1	31	ARG
67	o1	44	MET
67	o1	46	THR
67	o1	55	LEU
67	o1	67	VAL
67	o1	68	GLU
67	o1	83	GLU
67	o1	91	SER
67	o1	93	VAL
67	o1	96	VAL
67	o1	102	LYS
67	o1	106	THR
67	o1	107	VAL
68	o2	4	LEU
68	o2	9	ILE
68	o2	14	THR
68	o2	15	LYS
68	o2	19	ARG
68	o2	33	ARG
68	o2	35	GLN
68	o2	41	VAL
68	o2	50	ILE
68	o2	54	LYS
68	o2	61	LYS
68	o2	71	HIS
68	o2	72	LYS
68	o2	73	THR
68	o2	75	LEU
68	o2	82	LEU
68	o2	86	THR
68	o2	87	MET
68	o2	96	ILE
68	o2	106	VAL
68	o2	107	VAL
68	o2	109	LEU
68	o2	113	LYS
68	o2	119	VAL
68	o2	125	ARG
68	o2	126	LEU
69	o3	9	VAL

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Mol	Chain	Res	Type
69	o3	10	LYS
69	o3	37	THR
69	o3	49	ILE
69	o3	58	GLU
69	o3	60	ARG
69	o3	70	LYS
69	o3	80	VAL
69	o3	81	VAL
69	o3	88	ASN
69	o3	98	VAL
70	o4	5	VAL
70	o4	6	THR
70	o4	16	ARG
70	o4	20	ILE
70	o4	22	VAL
70	o4	25	THR
70	o4	29	ILE
70	o4	30	LEU
70	o4	46	ASP
70	o4	57	LEU
70	o4	58	ARG
70	o4	65	VAL
70	o4	66	SER
70	o4	71	THR
70	o4	72	VAL
70	o4	85	VAL
70	o4	88	ARG
70	o4	100	ILE
70	o4	101	VAL
71	o5	13	SER
71	o5	20	GLN
71	o5	21	LEU
71	o5	27	GLU
71	o5	28	LEU
71	o5	36	LEU
71	o5	45	LYS
71	o5	46	THR
71	o5	47	VAL
71	o5	62	GLN
71	o5	68	GLN
71	o5	79	ASP
71	o5	81	ARG

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Mol	Chain	Res	Type
71	o5	84	LYS
71	o5	85	THR
71	o5	86	ARG
71	o5	89	ARG
71	o5	118	ILE
71	o5	119	LYS
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	11	LEU
72	o6	17	VAL
72	o6	20	MET
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	34	SER
72	o6	35	ASN
72	o6	36	ARG
72	o6	43	LEU
72	o6	44	VAL
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	60	LEU
72	o6	68	ARG
72	o6	74	LYS
72	o6	76	ARG
72	o6	94	ILE
72	o6	98	ARG
73	o7	3	LYS
73	o7	15	SER
73	o7	17	THR
73	o7	21	ARG
73	o7	24	ARG
73	o7	25	ARG
73	o7	26	SER
73	o7	33	THR
73	o7	44	THR
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	65	ARG

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Mol	Chain	Res	Type
73	o7	67	LEU
73	o7	75	LYS
73	o7	80	THR
73	o7	84	SER
74	o8	8	ILE
74	o8	14	LEU
74	o8	15	THR
74	o8	16	ARG
74	o8	22	THR
74	o8	24	THR
74	o8	53	THR
74	o8	57	ASN
74	o8	61	LYS
74	o8	64	LYS
74	o8	75	VAL
75	o9	5	LYS
75	o9	12	LYS
75	o9	15	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	45	ARG
76	q0	83	LYS
76	q0	85	LEU
76	q0	88	LYS
76	q0	97	ARG
76	q0	99	CYS
76	q0	108	THR
76	q0	113	ARG
76	q0	127	LEU
77	q1	2	ARG
77	q1	13	LEU
77	q1	14	LYS
77	q1	17	ARG
77	q1	21	ARG
77	q1	23	ARG
78	q2	2	VAL
78	q2	4	VAL
78	q2	7	THR
78	q2	8	ARG
78	q2	16	THR
78	q2	21	THR
78	q2	26	THR

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Mol	Chain	Res	Type
78	q2	35	LEU
78	q2	45	ARG
78	q2	47	GLN
78	q2	48	SER
78	q2	61	LYS
78	q2	71	ARG
78	q2	73	GLU
78	q2	78	LYS
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	93	LEU
78	q2	104	LEU
78	q2	105	GLN
78	q2	106	PHE
79	q3	4	ARG
79	q3	13	LYS
79	q3	16	VAL
79	q3	24	ARG
79	q3	38	ASP
79	q3	42	CYS
79	q3	54	ILE
79	q3	56	THR
79	q3	58	SER
79	q3	64	VAL
79	q3	79	VAL
79	q3	82	THR
79	q3	89	MET
81	p0	4	ILE
81	p0	5	ARG
81	p0	6	GLU
81	p0	39	HIS
81	p0	43	LYS
81	p0	46	ARG
81	p0	51	VAL
81	p0	52	LEU
81	p0	63	ILE
81	p0	66	PHE
81	p0	67	LEU
81	p0	69	ASP
81	p0	70	LEU
81	p0	72	ASP

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Mol	Chain	Res	Type
81	p0	76	LEU
81	p0	81	LYS
81	p0	91	GLU
81	p0	93	LEU
81	p0	188	VAL
83	f	12	ASP
83	f	16	SER
83	f	37	ARG
83	f	49	THR
83	f	52	HIS
83	f	54	HIS
83	f	58	HIS
83	f	78	HIS
83	f	80	MET
83	f	84	VAL
83	f	102	LEU
83	f	103	MET
83	f	105	MET
83	f	108	ASP
83	f	109	THR
83	f	120	LEU
83	f	133	ASP
83	f	138	ILE
83	f	148	ILE
83	f	156	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (194) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	15	GLN
2	S0	23	HIS
2	S0	46	HIS
2	S0	92	HIS
3	S1	79	HIS
3	S1	95	ASN
4	S2	201	ASN
5	S3	101	GLN
6	S4	69	HIS
7	S5	103	ASN
7	S5	170	GLN
8	S6	22	HIS
9	S7	71	HIS

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Mol	Chain	Res	Type
9	S7	160	GLN
9	S7	174	ASN
10	S8	20	GLN
12	C0	32	HIS
12	C0	39	ASN
12	C0	81	ASN
16	C4	12	GLN
18	C6	94	GLN
20	C8	75	ASN
20	C8	122	HIS
22	D0	98	GLN
23	D1	75	ASN
24	D2	39	GLN
25	D3	75	GLN
29	D7	49	HIS
31	D9	48	ASN
32	E0	46	ASN
33	E1	145	HIS
34	SR	52	GLN
34	SR	184	ASN
34	SR	308	ASN
35	SM	50	ASN
39	L2	132	ASN
40	L3	224	HIS
40	L3	319	ASN
41	L4	5	GLN
41	L4	59	GLN
41	L4	304	GLN
41	L4	361	HIS
43	L6	28	GLN
43	L6	57	HIS
44	L7	48	ASN
44	L7	81	HIS
44	L7	166	ASN
45	L8	41	GLN
45	L8	79	GLN
46	L9	50	ASN
46	L9	96	HIS
46	L9	163	GLN
47	M0	12	GLN
47	M0	133	GLN
47	M0	144	ASN

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Mol	Chain	Res	Type
48	M1	95	ASN
48	M1	109	HIS
49	M3	137	GLN
51	M5	15	GLN
51	M5	90	ASN
51	M5	194	GLN
53	M7	101	ASN
53	M7	133	HIS
54	M8	126	GLN
55	M9	166	ASN
56	N0	138	GLN
57	N1	5	HIS
57	N1	45	ASN
57	N1	122	GLN
57	N1	146	ASN
59	N3	4	ASN
60	N4	32	GLN
60	N4	33	ASN
62	N6	4	GLN
63	N7	106	GLN
65	N9	6	ASN
65	N9	19	ASN
67	O1	87	ASN
69	O3	88	ASN
69	O3	106	ASN
70	O4	18	ASN
70	O4	61	GLN
71	O5	62	GLN
73	O7	76	ASN
75	O9	11	GLN
78	Q2	27	GLN
78	Q2	90	HIS
2	s0	69	ASN
3	s1	124	ASN
3	s1	208	GLN
4	s2	87	GLN
4	s2	108	ASN
4	s2	201	ASN
4	s2	209	ASN
6	s4	69	HIS
6	s4	153	ASN
7	s5	72	HIS

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Mol	Chain	Res	Type
7	s5	186	ASN
7	s5	224	ASN
8	s6	22	HIS
8	s6	80	ASN
9	s7	71	HIS
9	s7	74	GLN
10	s8	20	GLN
10	s8	138	ASN
10	s8	175	GLN
12	c0	32	HIS
13	c1	14	GLN
17	c5	79	HIS
18	c6	74	HIS
19	c7	42	GLN
19	c7	105	GLN
20	c8	44	ASN
20	c8	89	GLN
20	c8	136	GLN
20	c8	137	HIS
21	c9	77	ASN
21	c9	101	ASN
22	d0	44	ASN
22	d0	98	GLN
23	d1	3	ASN
23	d1	21	ASN
23	d1	33	GLN
24	d2	56	HIS
25	d3	27	ASN
25	d3	63	GLN
27	d5	44	GLN
31	d9	53	ASN
32	e0	5	HIS
34	sR	148	ASN
34	sR	196	ASN
34	sR	237	GLN
34	sR	314	GLN
39	l2	24	GLN
39	l2	97	ASN
40	l3	109	HIS
40	l3	182	GLN
40	l3	211	GLN
40	l3	231	HIS

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Mol	Chain	Res	Type
40	l3	259	HIS
41	l4	5	GLN
41	l4	114	ASN
42	l5	81	HIS
43	l6	28	GLN
45	l8	61	GLN
45	l8	192	GLN
45	l8	243	GLN
46	l9	8	GLN
46	l9	183	HIS
47	m0	12	GLN
48	m1	20	ASN
49	m3	19	GLN
49	m3	102	GLN
51	m5	11	GLN
51	m5	86	ASN
51	m5	95	GLN
51	m5	178	HIS
51	m5	182	ASN
52	m6	42	ASN
53	m7	28	ASN
53	m7	34	GLN
53	m7	55	GLN
53	m7	137	ASN
54	m8	5	HIS
54	m8	135	GLN
55	m9	92	GLN
55	m9	134	HIS
55	m9	144	GLN
55	m9	156	ASN
56	n0	63	GLN
57	n1	95	HIS
57	n1	127	GLN
58	n2	101	ASN
61	n5	65	GLN
61	n5	85	GLN
64	n8	11	HIS
64	n8	44	ASN
64	n8	49	HIS
65	n9	19	ASN
66	o0	11	ASN
68	o2	21	HIS

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Mol	Chain	Res	Type
68	o2	49	ASN
69	o3	87	ASN
70	o4	18	ASN
73	o7	13	ASN
73	o7	28	HIS
74	o8	40	GLN
75	o9	4	GLN
75	o9	25	GLN
78	q2	27	GLN
78	q2	90	HIS
78	q2	99	GLN
81	p0	83	ASN
83	f	91	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1777/1800 (98%)	463 (26%)	42 (2%)
1	6	1791/1800 (99%)	450 (25%)	35 (1%)
36	1	3145/3396 (92%)	688 (21%)	65 (2%)
36	5	3145/3396 (92%)	664 (21%)	65 (2%)
37	3	120/121 (99%)	20 (16%)	1 (0%)
37	7	120/121 (99%)	16 (13%)	1 (0%)
38	4	157/158 (99%)	33 (21%)	3 (1%)
38	8	157/158 (99%)	32 (20%)	1 (0%)
84	B	1/3 (33%)	1 (100%)	0
84	C	1/3 (33%)	0	0
All	All	10414/10956 (95%)	2367 (22%)	213 (2%)

All (2367) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	23	G
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	45	U
1	2	47	A

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Mol	Chain	Res	Type
1	2	49	C
1	2	50	C
1	2	57	G
1	2	60	U
1	2	63	G
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	76	A
1	2	77	U
1	2	90	C
1	2	104	A
1	2	105	A
1	2	114	C
1	2	128	U
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	161	U
1	2	178	U
1	2	179	A
1	2	184	C
1	2	185	U
1	2	186	C
1	2	187	G
1	2	190	C
1	2	191	C

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Mol	Chain	Res	Type
1	2	192	U
1	2	193	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	200	A
1	2	215	A
1	2	217	A
1	2	219	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	238	U
1	2	240	U
1	2	241	U
1	2	243	G
1	2	249	U
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	262	U
1	2	265	A
1	2	267	U
1	2	270	C
1	2	271	A
1	2	272	U
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	288	A
1	2	290	G
1	2	292	U
1	2	299	A
1	2	302	U

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Mol	Chain	Res	Type
1	2	309	C
1	2	314	C
1	2	316	A
1	2	320	U
1	2	321	C
1	2	322	G
1	2	323	A
1	2	333	A
1	2	337	G
1	2	338	C
1	2	341	A
1	2	352	A
1	2	356	G
1	2	359	A
1	2	360	A
1	2	361	C
1	2	380	U
1	2	390	G
1	2	400	A
1	2	402	C
1	2	404	G
1	2	416	A
1	2	418	G
1	2	419	G
1	2	421	A
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	452	A
1	2	455	C
1	2	468	A
1	2	470	A
1	2	475	A
1	2	480	G
1	2	484	C
1	2	485	A
1	2	488	G

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Mol	Chain	Res	Type
1	2	493	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	510	G
1	2	511	A
1	2	513	U
1	2	515	A
1	2	516	G
1	2	527	A
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	547	U
1	2	548	G
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	585	A
1	2	594	A
1	2	595	G
1	2	596	C

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Mol	Chain	Res	Type
1	2	605	A
1	2	606	A
1	2	609	U
1	2	610	G
1	2	611	U
1	2	614	C
1	2	617	U
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	628	G
1	2	630	A
1	2	639	U
1	2	650	U
1	2	653	C
1	2	655	G
1	2	656	G
1	2	657	U
1	2	658	C
1	2	680	U
1	2	684	A
1	2	694	U
1	2	696	C
1	2	697	C
1	2	700	C
1	2	703	G
1	2	704	C
1	2	705	U
1	2	706	A
1	2	707	A
1	2	709	C
1	2	710	U
1	2	711	U
1	2	712	G
1	2	714	G
1	2	717	C
1	2	718	U
1	2	719	U
1	2	720	G
1	2	721	U

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Mol	Chain	Res	Type
1	2	722	G
1	2	723	G
1	2	725	U
1	2	727	U
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	741	C
1	2	742	U
1	2	754	A
1	2	755	A
1	2	756	A
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	777	C
1	2	778	G
1	2	781	U
1	2	783	G
1	2	784	C
1	2	789	A
1	2	794	U
1	2	807	A
1	2	812	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	823	G
1	2	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U

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Mol	Chain	Res	Type
1	2	841	U
1	2	846	G
1	2	856	A
1	2	863	A
1	2	864	U
1	2	865	A
1	2	876	G
1	2	886	U
1	2	896	U
1	2	898	A
1	2	912	U
1	2	913	G
1	2	914	G
1	2	915	A
1	2	916	U
1	2	926	A
1	2	933	A
1	2	935	U
1	2	942	G
1	2	951	A
1	2	960	U
1	2	966	A
1	2	970	A
1	2	977	A
1	2	985	G
1	2	988	A
1	2	992	A
1	2	993	A
1	2	997	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1024	U
1	2	1025	A
1	2	1026	A
1	2	1028	C
1	2	1040	G
1	2	1043	A
1	2	1053	G
1	2	1058	U
1	2	1059	U
1	2	1060	U

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Mol	Chain	Res	Type
1	2	1061	A
1	2	1062	A
1	2	1073	G
1	2	1081	A
1	2	1082	C
1	2	1087	A
1	2	1091	A
1	2	1092	A
1	2	1096	C
1	2	1097	U
1	2	1098	U
1	2	1100	G
1	2	1109	G
1	2	1138	A
1	2	1139	A
1	2	1143	A
1	2	1146	G
1	2	1150	G
1	2	1151	A
1	2	1157	A
1	2	1158	C
1	2	1159	C
1	2	1160	A
1	2	1164	G
1	2	1167	G
1	2	1185	U
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1207	C
1	2	1208	A
1	2	1217	A
1	2	1218	G
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1243	G
1	2	1244	A
1	2	1245	G

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Mol	Chain	Res	Type
1	2	1251	U
1	2	1258	U
1	2	1275	A
1	2	1276	U
1	2	1285	U
1	2	1286	U
1	2	1301	U
1	2	1314	U
1	2	1315	U
1	2	1316	G
1	2	1321	A
1	2	1337	A
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1350	U
1	2	1355	C
1	2	1361	U
1	2	1362	U
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1390	U
1	2	1398	U
1	2	1400	A
1	2	1412	G
1	2	1413	U
1	2	1414	U
1	2	1415	U
1	2	1420	C
1	2	1424	A
1	2	1427	A
1	2	1428	G
1	2	1432	U
1	2	1435	G
1	2	1436	A
1	2	1446	A
1	2	1456	C
1	2	1458	G

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Mol	Chain	Res	Type
1	2	1459	C
1	2	1460	A
1	2	1462	G
1	2	1464	G
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1478	G
1	2	1482	C
1	2	1485	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1506	G
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1518	C
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1539	G
1	2	1540	G
1	2	1542	G
1	2	1557	U
1	2	1559	A
1	2	1569	A
1	2	1572	G
1	2	1573	A
1	2	1574	G
1	2	1584	G
1	2	1590	G
1	2	1601	G
1	2	1614	A

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Mol	Chain	Res	Type
1	2	1616	G
1	2	1619	C
1	2	1631	A
1	2	1657	U
1	2	1658	G
1	2	1680	G
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1698	G
1	2	1699	G
1	2	1700	C
1	2	1701	A
1	2	1702	A
1	2	1712	A
1	2	1713	G
1	2	1731	A
1	2	1734	U
1	2	1740	A
1	2	1754	A
1	2	1760	G
1	2	1762	A
1	2	1766	A
1	2	1769	U
1	2	1770	U
1	2	1777	G
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1795	U
1	2	1796	C
36	1	13	A
36	1	14	U
36	1	16	A
36	1	26	A
36	1	40	A
36	1	43	A
36	1	45	A
36	1	49	A

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Mol	Chain	Res	Type
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	74	G
36	1	75	G
36	1	92	G
36	1	93	C
36	1	94	G
36	1	99	A
36	1	109	A
36	1	110	G
36	1	111	C
36	1	113	C
36	1	116	A
36	1	117	U
36	1	121	A
36	1	122	A
36	1	130	A
36	1	131	C
36	1	133	U
36	1	136	G
36	1	146	U
36	1	147	U
36	1	156	G
36	1	157	A
36	1	161	G
36	1	166	C
36	1	176	G
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	205	C
36	1	206	G
36	1	210	U
36	1	213	A
36	1	218	G
36	1	219	A
36	1	240	U
36	1	241	G
36	1	243	G

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Mol	Chain	Res	Type
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	269	G
36	1	270	U
36	1	286	U
36	1	295	A
36	1	298	U
36	1	315	C
36	1	316	U
36	1	319	A
36	1	323	A
36	1	329	U
36	1	339	C
36	1	349	A
36	1	350	C
36	1	351	A
36	1	376	G
36	1	397	A
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	414	U
36	1	421	G
36	1	422	A
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	555	U

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Mol	Chain	Res	Type
36	1	556	U
36	1	557	A
36	1	558	U
36	1	559	A
36	1	569	A
36	1	578	A
36	1	579	G
36	1	592	A
36	1	596	C
36	1	597	G
36	1	604	G
36	1	607	A
36	1	609	G
36	1	611	A
36	1	620	U
36	1	621	A
36	1	636	C
36	1	638	C
36	1	649	A
36	1	660	A
36	1	677	A
36	1	681	U
36	1	683	U
36	1	691	A
36	1	705	A
36	1	709	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	719	U
36	1	720	A
36	1	725	G
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U
36	1	776	U
36	1	777	U
36	1	781	G
36	1	785	G
36	1	787	G
36	1	802	C

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Mol	Chain	Res	Type
36	1	806	A
36	1	817	A
36	1	827	A
36	1	830	A
36	1	849	C
36	1	851	C
36	1	861	C
36	1	874	U
36	1	879	U
36	1	890	C
36	1	896	A
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	921	A
36	1	923	C
36	1	924	G
36	1	925	A
36	1	937	G
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	967	A
36	1	978	G
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1003	A
36	1	1006	A
36	1	1010	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G

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Mol	Chain	Res	Type
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1036	A
36	1	1037	C
36	1	1047	A
36	1	1049	C
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1079	A
36	1	1080	A
36	1	1081	U
36	1	1083	G
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1117	G
36	1	1129	A
36	1	1131	G
36	1	1144	U
36	1	1145	G
36	1	1153	A
36	1	1159	A
36	1	1161	G
36	1	1168	U
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1185	C
36	1	1190	A
36	1	1191	U
36	1	1192	C
36	1	1193	A
36	1	1196	C
36	1	1197	A

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Mol	Chain	Res	Type
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1213	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1227	C
36	1	1232	C
36	1	1233	G
36	1	1235	U
36	1	1236	G
36	1	1241	U
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1251	A
36	1	1253	U
36	1	1254	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1274	A
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G
36	1	1287	A
36	1	1292	C
36	1	1294	A
36	1	1296	C
36	1	1308	A
36	1	1309	U

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Mol	Chain	Res	Type
36	1	1313	G
36	1	1315	U
36	1	1318	A
36	1	1330	A
36	1	1331	U
36	1	1332	A
36	1	1348	U
36	1	1349	G
36	1	1350	A
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1386	A
36	1	1387	G
36	1	1398	U
36	1	1399	A
36	1	1400	G
36	1	1402	C
36	1	1405	U
36	1	1408	G
36	1	1411	C
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1429	G
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1435	A
36	1	1437	C
36	1	1443	G
36	1	1446	A
36	1	1450	G
36	1	1460	A
36	1	1481	A
36	1	1482	A
36	1	1484	U
36	1	1485	G
36	1	1496	C

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Mol	Chain	Res	Type
36	1	1502	C
36	1	1508	C
36	1	1521	G
36	1	1527	C
36	1	1533	U
36	1	1536	G
36	1	1542	G
36	1	1555	U
36	1	1556	C
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1571	A
36	1	1572	U
36	1	1576	G
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1593	A
36	1	1596	C
36	1	1605	A
36	1	1607	U
36	1	1608	C
36	1	1620	U
36	1	1629	U
36	1	1630	U
36	1	1632	A
36	1	1639	C
36	1	1641	U
36	1	1643	A
36	1	1657	C
36	1	1665	C
36	1	1677	G
36	1	1683	A

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Mol	Chain	Res	Type
36	1	1688	U
36	1	1713	G
36	1	1715	A
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1729	A
36	1	1736	G
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1761	C
36	1	1763	U
36	1	1764	U
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G
36	1	1780	G
36	1	1793	C
36	1	1797	A
36	1	1810	A
36	1	1812	G
36	1	1813	A
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1822	C
36	1	1835	A
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1845	G
36	1	1846	C
36	1	1849	C
36	1	1850	A

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Mol	Chain	Res	Type
36	1	1863	G
36	1	1866	C
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1906	G
36	1	1908	A
36	1	1926	C
36	1	1927	G
36	1	1935	G
36	1	1937	U
36	1	1951	C
36	1	1952	G
36	1	2094	C
36	1	2100	A
36	1	2101	C
36	1	2102	U
36	1	2107	A
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2115	G
36	1	2121	G
36	1	2122	G
36	1	2130	G
36	1	2131	A
36	1	2134	G
36	1	2139	A
36	1	2140	U
36	1	2144	A
36	1	2158	A
36	1	2169	G
36	1	2170	U
36	1	2171	G
36	1	2187	G
36	1	2188	A
36	1	2195	C
36	1	2201	G
36	1	2205	U
36	1	2208	A
36	1	2209	U

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Mol	Chain	Res	Type
36	1	2210	G
36	1	2223	A
36	1	2228	A
36	1	2239	G
36	1	2244	A
36	1	2248	C
36	1	2249	G
36	1	2250	G
36	1	2251	G
36	1	2255	A
36	1	2256	A
36	1	2272	G
36	1	2281	A
36	1	2282	U
36	1	2287	C
36	1	2288	G
36	1	2307	G
36	1	2309	A
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2323	G
36	1	2334	U
36	1	2336	U
36	1	2342	U
36	1	2350	C
36	1	2361	A
36	1	2367	A
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2404	A
36	1	2411	U

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Mol	Chain	Res	Type
36	1	2418	G
36	1	2419	A
36	1	2428	U
36	1	2429	G
36	1	2435	G
36	1	2437	G
36	1	2438	A
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2508	U
36	1	2511	A
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2531	C
36	1	2533	G
36	1	2534	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2556	C
36	1	2560	C
36	1	2561	A
36	1	2562	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C

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Mol	Chain	Res	Type
36	1	2573	G
36	1	2576	G
36	1	2580	A
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2635	A
36	1	2637	A
36	1	2638	C
36	1	2652	U
36	1	2656	A
36	1	2659	G
36	1	2672	G
36	1	2674	A
36	1	2675	C
36	1	2677	G
36	1	2681	U
36	1	2689	A
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2708	C
36	1	2714	G
36	1	2716	U
36	1	2728	G
36	1	2729	U
36	1	2752	U
36	1	2753	G
36	1	2758	A
36	1	2769	A
36	1	2772	C
36	1	2777	G
36	1	2778	G
36	1	2781	U
36	1	2796	G
36	1	2800	G

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Mol	Chain	Res	Type
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2810	C
36	1	2814	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2830	G
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2860	U
36	1	2871	G
36	1	2872	A
36	1	2873	U
36	1	2876	C
36	1	2887	A
36	1	2897	A
36	1	2898	G
36	1	2899	C
36	1	2916	U
36	1	2923	U
36	1	2925	C
36	1	2935	U
36	1	2936	A
36	1	2940	A
36	1	2942	C
36	1	2943	G
36	1	2947	G
36	1	2960	C
36	1	2971	A
36	1	2977	G
36	1	2979	U
36	1	2983	C
36	1	2990	G
36	1	2996	U
36	1	2997	G
36	1	3011	A
36	1	3012	A
36	1	3025	C
36	1	3030	G

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Mol	Chain	Res	Type
36	1	3040	A
36	1	3050	U
36	1	3056	U
36	1	3059	G
36	1	3065	G
36	1	3074	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A
36	1	3092	C
36	1	3097	C
36	1	3098	G
36	1	3104	U
36	1	3122	A
36	1	3129	A
36	1	3130	A
36	1	3131	U
36	1	3141	A
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3164	C
36	1	3165	A
36	1	3167	A
36	1	3168	A
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3196	U
36	1	3207	U
36	1	3210	A

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Mol	Chain	Res	Type
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3228	C
36	1	3229	G
36	1	3239	G
36	1	3243	A
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3257	C
36	1	3259	U
36	1	3269	U
36	1	3270	U
36	1	3276	G
36	1	3281	U
36	1	3286	G
36	1	3289	G
36	1	3294	A
36	1	3303	G
36	1	3304	U
36	1	3307	A
36	1	3313	U
36	1	3316	A
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3341	U
36	1	3342	A
36	1	3345	G
36	1	3347	A
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3368	U
36	1	3369	G

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Mol	Chain	Res	Type
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U
36	1	3383	G
36	1	3388	C
36	1	3389	U
36	1	3396	U
37	3	7	G
37	3	10	C
37	3	11	A
37	3	13	A
37	3	22	A
37	3	29	C
37	3	41	G
37	3	53	U
37	3	55	A
37	3	60	G
37	3	65	G
37	3	68	C
37	3	74	C
37	3	76	A
37	3	90	U
37	3	101	G
37	3	102	A
37	3	104	A
37	3	112	G
37	3	121	U
38	4	16	G
38	4	23	U
38	4	34	U
38	4	35	C
38	4	51	G
38	4	59	A
38	4	62	C
38	4	63	G
38	4	69	U
38	4	70	G
38	4	71	A
38	4	75	G
38	4	80	A
38	4	81	U

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Mol	Chain	Res	Type
38	4	82	U
38	4	83	C
38	4	85	G
38	4	86	U
38	4	87	G
38	4	90	U
38	4	95	G
38	4	96	A
38	4	102	U
38	4	104	A
38	4	106	C
38	4	111	A
38	4	113	U
38	4	125	U
38	4	126	A
38	4	128	U
38	4	138	A
38	4	152	G
38	4	155	A
1	6	2	A
1	6	11	A
1	6	17	C
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	47	A
1	6	57	G
1	6	60	U
1	6	63	G
1	6	65	A
1	6	67	A
1	6	68	A
1	6	69	G
1	6	72	A
1	6	75	U
1	6	76	A
1	6	77	U
1	6	101	U
1	6	104	A
1	6	114	C
1	6	115	G

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Mol	Chain	Res	Type
1	6	132	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U
1	6	142	G
1	6	143	G
1	6	144	U
1	6	145	A
1	6	146	U
1	6	153	G
1	6	159	U
1	6	161	U
1	6	162	A
1	6	166	C
1	6	178	U
1	6	179	A
1	6	181	A
1	6	184	C
1	6	185	U
1	6	187	G
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	196	G
1	6	199	G
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U

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Mol	Chain	Res	Type
1	6	233	C
1	6	234	G
1	6	235	G
1	6	238	U
1	6	240	U
1	6	241	U
1	6	250	C
1	6	261	U
1	6	262	U
1	6	265	A
1	6	266	A
1	6	267	U
1	6	270	C
1	6	271	A
1	6	272	U
1	6	273	G
1	6	277	U
1	6	278	U
1	6	280	U
1	6	287	G
1	6	299	A
1	6	302	U
1	6	314	C
1	6	316	A
1	6	319	U
1	6	320	U
1	6	321	C
1	6	322	G
1	6	337	G
1	6	338	C
1	6	341	A
1	6	344	A
1	6	352	A
1	6	359	A
1	6	360	A
1	6	361	C
1	6	378	A
1	6	385	A
1	6	390	G
1	6	400	A
1	6	401	A
1	6	402	C

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Mol	Chain	Res	Type
1	6	404	G
1	6	416	A
1	6	423	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	434	G
1	6	438	A
1	6	439	U
1	6	444	C
1	6	448	C
1	6	454	U
1	6	468	A
1	6	475	A
1	6	477	A
1	6	480	G
1	6	484	C
1	6	486	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	496	G
1	6	500	C
1	6	501	U
1	6	504	U
1	6	505	A
1	6	506	A
1	6	508	U
1	6	510	G
1	6	511	A
1	6	512	A
1	6	513	U
1	6	515	A
1	6	519	C
1	6	536	C
1	6	538	A
1	6	539	G
1	6	540	G
1	6	541	A

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Mol	Chain	Res	Type
1	6	542	A
1	6	543	C
1	6	544	A
1	6	548	G
1	6	555	A
1	6	556	A
1	6	557	G
1	6	558	U
1	6	559	C
1	6	565	C
1	6	568	G
1	6	570	A
1	6	574	G
1	6	577	G
1	6	579	A
1	6	580	A
1	6	594	A
1	6	595	G
1	6	597	G
1	6	606	A
1	6	609	U
1	6	610	G
1	6	611	U
1	6	619	A
1	6	620	A
1	6	623	A
1	6	624	G
1	6	637	C
1	6	639	U
1	6	651	G
1	6	652	G
1	6	653	C
1	6	659	C
1	6	660	G
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	669	G
1	6	670	U
1	6	676	G
1	6	679	U

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Mol	Chain	Res	Type
1	6	681	U
1	6	682	C
1	6	683	C
1	6	684	A
1	6	685	A
1	6	687	G
1	6	690	G
1	6	695	U
1	6	696	C
1	6	697	C
1	6	698	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	717	C
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	730	G
1	6	742	U
1	6	743	U
1	6	751	G
1	6	754	A
1	6	755	A
1	6	756	A
1	6	765	G
1	6	766	U
1	6	767	U
1	6	774	A
1	6	775	G
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	787	G
1	6	789	A
1	6	792	U
1	6	793	A
1	6	794	U
1	6	811	A
1	6	812	A

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Mol	Chain	Res	Type
1	6	814	A
1	6	815	G
1	6	821	U
1	6	823	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	832	U
1	6	833	U
1	6	834	G
1	6	835	U
1	6	842	C
1	6	844	A
1	6	861	U
1	6	862	A
1	6	863	A
1	6	864	U
1	6	865	A
1	6	871	G
1	6	876	G
1	6	886	U
1	6	898	A
1	6	906	A
1	6	911	U
1	6	913	G
1	6	914	G
1	6	933	A
1	6	935	U
1	6	942	G
1	6	944	A
1	6	946	U
1	6	958	U
1	6	959	U
1	6	960	U
1	6	966	A
1	6	969	C
1	6	992	A
1	6	993	A
1	6	997	G
1	6	1003	A
1	6	1004	U

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Mol	Chain	Res	Type
1	6	1005	A
1	6	1020	A
1	6	1021	C
1	6	1026	A
1	6	1028	C
1	6	1029	U
1	6	1032	G
1	6	1039	A
1	6	1040	G
1	6	1052	U
1	6	1053	G
1	6	1057	U
1	6	1058	U
1	6	1059	U
1	6	1060	U
1	6	1061	A
1	6	1063	U
1	6	1071	U
1	6	1081	A
1	6	1082	C
1	6	1091	A
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1099	U
1	6	1100	G
1	6	1137	A
1	6	1138	A
1	6	1149	G
1	6	1151	A
1	6	1154	G
1	6	1155	G
1	6	1158	C
1	6	1159	C
1	6	1160	A
1	6	1164	G
1	6	1167	G
1	6	1185	U
1	6	1191	U
1	6	1194	A
1	6	1196	A

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Mol	Chain	Res	Type
1	6	1197	C
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1207	C
1	6	1217	A
1	6	1218	G
1	6	1227	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1235	C
1	6	1239	U
1	6	1240	U
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1246	C
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1273	G
1	6	1275	A
1	6	1284	C
1	6	1285	U
1	6	1286	U
1	6	1288	G
1	6	1291	G
1	6	1293	U
1	6	1314	U
1	6	1315	U
1	6	1316	G
1	6	1320	U
1	6	1321	A
1	6	1335	U
1	6	1344	A
1	6	1345	A
1	6	1354	G
1	6	1361	U
1	6	1362	U
1	6	1363	U
1	6	1364	G

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Mol	Chain	Res	Type
1	6	1367	G
1	6	1370	U
1	6	1371	A
1	6	1388	A
1	6	1390	U
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1413	U
1	6	1414	U
1	6	1415	U
1	6	1427	A
1	6	1428	G
1	6	1445	G
1	6	1446	A
1	6	1448	G
1	6	1458	G
1	6	1459	C
1	6	1461	C
1	6	1469	A
1	6	1471	A
1	6	1473	U
1	6	1481	C
1	6	1482	C
1	6	1486	G
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1494	C
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1517	U
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1535	U
1	6	1536	G
1	6	1537	C

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Mol	Chain	Res	Type
1	6	1538	U
1	6	1540	G
1	6	1554	U
1	6	1557	U
1	6	1559	A
1	6	1569	A
1	6	1574	G
1	6	1582	U
1	6	1584	G
1	6	1600	A
1	6	1601	G
1	6	1603	U
1	6	1621	U
1	6	1634	C
1	6	1636	C
1	6	1637	C
1	6	1638	G
1	6	1657	U
1	6	1658	G
1	6	1697	G
1	6	1698	G
1	6	1699	G
1	6	1700	C
1	6	1701	A
1	6	1702	A
1	6	1712	A
1	6	1713	G
1	6	1716	C
1	6	1717	G
1	6	1736	G
1	6	1754	A
1	6	1755	A
1	6	1760	G
1	6	1762	A
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1788	G
1	6	1789	G

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Mol	Chain	Res	Type
1	6	1791	A
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1796	C
1	6	1799	U
1	6	1800	A
36	5	14	U
36	5	15	C
36	5	26	A
36	5	30	G
36	5	31	C
36	5	40	A
36	5	43	A
36	5	44	U
36	5	49	A
36	5	57	A
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	72	C
36	5	73	C
36	5	74	G
36	5	76	G
36	5	89	A
36	5	92	G
36	5	93	C
36	5	96	G
36	5	99	A
36	5	109	A
36	5	110	G
36	5	111	C
36	5	116	A
36	5	120	G
36	5	121	A
36	5	122	A
36	5	124	U
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G

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Mol	Chain	Res	Type
36	5	150	A
36	5	152	U
36	5	156	G
36	5	157	A
36	5	165	A
36	5	166	C
36	5	170	G
36	5	171	G
36	5	173	G
36	5	174	C
36	5	181	U
36	5	182	U
36	5	184	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	210	U
36	5	213	A
36	5	218	G
36	5	219	A
36	5	221	A
36	5	231	G
36	5	235	A
36	5	236	G
36	5	239	G
36	5	240	U
36	5	243	G
36	5	245	U
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A
36	5	269	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	323	A
36	5	329	U
36	5	334	A

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Mol	Chain	Res	Type
36	5	338	A
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	374	A
36	5	375	A
36	5	376	G
36	5	382	U
36	5	398	A
36	5	399	A
36	5	401	U
36	5	402	A
36	5	403	C
36	5	421	G
36	5	422	A
36	5	436	A
36	5	437	G
36	5	438	A
36	5	439	C
36	5	441	U
36	5	442	G
36	5	492	U
36	5	496	C
36	5	507	U
36	5	520	U
36	5	521	A
36	5	523	A
36	5	531	G
36	5	532	A
36	5	533	A
36	5	543	C
36	5	546	C
36	5	547	G
36	5	548	G
36	5	553	U
36	5	555	U
36	5	557	A
36	5	559	A
36	5	565	U
36	5	569	A
36	5	578	A

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Mol	Chain	Res	Type
36	5	579	G
36	5	589	A
36	5	592	A
36	5	594	U
36	5	595	G
36	5	600	G
36	5	604	G
36	5	607	A
36	5	609	G
36	5	611	A
36	5	612	U
36	5	619	A
36	5	620	U
36	5	636	C
36	5	649	A
36	5	660	A
36	5	677	A
36	5	681	U
36	5	691	A
36	5	692	A
36	5	705	A
36	5	708	G
36	5	712	G
36	5	715	A
36	5	716	A
36	5	720	A
36	5	726	G
36	5	727	G
36	5	741	U
36	5	742	G
36	5	758	C
36	5	763	G
36	5	766	U
36	5	767	U
36	5	768	C
36	5	776	U
36	5	777	U
36	5	781	G
36	5	785	G
36	5	786	A
36	5	806	A
36	5	817	A

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Mol	Chain	Res	Type
36	5	830	A
36	5	850	U
36	5	861	C
36	5	869	G
36	5	874	U
36	5	879	U
36	5	891	G
36	5	895	A
36	5	896	A
36	5	897	U
36	5	907	G
36	5	908	G
36	5	910	G
36	5	913	A
36	5	914	A
36	5	916	G
36	5	917	A
36	5	924	G
36	5	936	A
36	5	937	G
36	5	944	C
36	5	959	C
36	5	960	U
36	5	963	G
36	5	968	G
36	5	974	G
36	5	979	U
36	5	981	U
36	5	993	G
36	5	994	G
36	5	1001	G
36	5	1002	A
36	5	1006	A
36	5	1010	G
36	5	1014	U
36	5	1015	U
36	5	1016	C
36	5	1017	C
36	5	1018	G
36	5	1019	G
36	5	1021	G
36	5	1024	G

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Mol	Chain	Res	Type
36	5	1025	A
36	5	1026	A
36	5	1028	U
36	5	1029	G
36	5	1032	C
36	5	1035	G
36	5	1047	A
36	5	1049	C
36	5	1064	A
36	5	1065	A
36	5	1072	G
36	5	1081	U
36	5	1082	U
36	5	1085	A
36	5	1093	A
36	5	1095	U
36	5	1097	G
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1117	G
36	5	1131	G
36	5	1152	G
36	5	1153	A
36	5	1159	A
36	5	1160	C
36	5	1161	G
36	5	1174	G
36	5	1180	A
36	5	1181	U
36	5	1191	U
36	5	1192	C
36	5	1193	A
36	5	1196	C
36	5	1201	C
36	5	1202	A
36	5	1209	G
36	5	1222	G
36	5	1223	A
36	5	1232	C
36	5	1235	U
36	5	1236	G

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Mol	Chain	Res	Type
36	5	1237	G
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1245	A
36	5	1246	G
36	5	1248	C
36	5	1253	U
36	5	1258	U
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1265	U
36	5	1266	G
36	5	1281	G
36	5	1285	G
36	5	1305	U
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1313	G
36	5	1324	U
36	5	1330	A
36	5	1331	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1368	U
36	5	1380	G
36	5	1385	C
36	5	1386	A
36	5	1387	G
36	5	1399	A
36	5	1400	G
36	5	1419	A
36	5	1421	G
36	5	1431	G
36	5	1433	A

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Mol	Chain	Res	Type
36	5	1434	G
36	5	1437	C
36	5	1438	U
36	5	1446	A
36	5	1450	G
36	5	1481	A
36	5	1482	A
36	5	1508	C
36	5	1527	C
36	5	1536	G
36	5	1548	C
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1557	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1567	U
36	5	1568	U
36	5	1570	U
36	5	1571	A
36	5	1572	U
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1580	A
36	5	1581	C
36	5	1582	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1605	A
36	5	1607	U
36	5	1620	U
36	5	1629	U
36	5	1639	C
36	5	1643	A
36	5	1644	C

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Mol	Chain	Res	Type
36	5	1645	U
36	5	1675	G
36	5	1677	G
36	5	1683	A
36	5	1713	G
36	5	1716	U
36	5	1724	U
36	5	1725	C
36	5	1736	G
36	5	1750	A
36	5	1751	G
36	5	1761	C
36	5	1762	C
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1770	G
36	5	1775	G
36	5	1780	G
36	5	1793	C
36	5	1797	A
36	5	1810	A
36	5	1813	A
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U
36	5	1821	U
36	5	1839	A
36	5	1841	A
36	5	1842	A
36	5	1846	C
36	5	1849	C
36	5	1850	A
36	5	1863	G
36	5	1864	A
36	5	1878	G
36	5	1879	A
36	5	1880	U
36	5	1893	A
36	5	1906	G

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Mol	Chain	Res	Type
36	5	1926	C
36	5	2100	A
36	5	2101	C
36	5	2102	U
36	5	2111	G
36	5	2112	U
36	5	2113	A
36	5	2114	C
36	5	2121	G
36	5	2122	G
36	5	2129	U
36	5	2131	A
36	5	2134	G
36	5	2144	A
36	5	2149	A
36	5	2158	A
36	5	2169	G
36	5	2170	U
36	5	2187	G
36	5	2188	A
36	5	2192	C
36	5	2201	G
36	5	2203	U
36	5	2205	U
36	5	2206	G
36	5	2208	A
36	5	2210	G
36	5	2222	A
36	5	2223	A
36	5	2229	A
36	5	2244	A
36	5	2249	G
36	5	2250	G
36	5	2251	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2269	U
36	5	2270	A
36	5	2273	G
36	5	2276	G

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Mol	Chain	Res	Type
36	5	2279	A
36	5	2280	A
36	5	2288	G
36	5	2301	U
36	5	2307	G
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2318	U
36	5	2335	G
36	5	2336	U
36	5	2338	C
36	5	2347	U
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2385	G
36	5	2392	C
36	5	2393	G
36	5	2394	G
36	5	2397	A
36	5	2401	A
36	5	2402	A
36	5	2403	G
36	5	2404	A
36	5	2405	C
36	5	2411	U
36	5	2418	G
36	5	2419	A
36	5	2438	A
36	5	2439	A
36	5	2441	A
36	5	2443	A
36	5	2444	C
36	5	2505	U
36	5	2506	U
36	5	2507	C
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2512	C

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Mol	Chain	Res	Type
36	5	2514	U
36	5	2515	A
36	5	2522	G
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2531	C
36	5	2532	U
36	5	2535	A
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2541	U
36	5	2543	U
36	5	2544	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2567	C
36	5	2568	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2584	G
36	5	2585	G
36	5	2587	U
36	5	2589	G
36	5	2593	A
36	5	2594	C
36	5	2606	G
36	5	2607	G
36	5	2614	G
36	5	2638	C
36	5	2652	U
36	5	2656	A
36	5	2657	A
36	5	2674	A
36	5	2675	C

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Mol	Chain	Res	Type
36	5	2676	A
36	5	2677	G
36	5	2678	A
36	5	2680	A
36	5	2689	A
36	5	2690	G
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2705	A
36	5	2714	G
36	5	2719	U
36	5	2720	G
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2752	U
36	5	2753	G
36	5	2762	A
36	5	2772	C
36	5	2773	C
36	5	2776	C
36	5	2777	G
36	5	2778	G
36	5	2779	A
36	5	2782	U
36	5	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2802	A
36	5	2803	A
36	5	2804	A
36	5	2810	C
36	5	2814	G
36	5	2816	G
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2829	U
36	5	2844	C
36	5	2845	A

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Mol	Chain	Res	Type
36	5	2847	A
36	5	2849	C
36	5	2853	A
36	5	2865	U
36	5	2871	G
36	5	2872	A
36	5	2875	U
36	5	2887	A
36	5	2889	C
36	5	2899	C
36	5	2900	A
36	5	2922	G
36	5	2923	U
36	5	2928	C
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2945	G
36	5	2947	G
36	5	2960	C
36	5	2964	G
36	5	2971	A
36	5	2979	U
36	5	2983	C
36	5	2990	G
36	5	2996	U
36	5	2997	G
36	5	3012	A
36	5	3049	A
36	5	3056	U
36	5	3057	U
36	5	3059	G
36	5	3078	U
36	5	3079	U
36	5	3086	A
36	5	3092	C
36	5	3098	G
36	5	3102	G
36	5	3113	A
36	5	3119	U
36	5	3122	A
36	5	3130	A

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Mol	Chain	Res	Type
36	5	3131	U
36	5	3142	A
36	5	3143	C
36	5	3150	A
36	5	3153	U
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3162	C
36	5	3164	C
36	5	3165	A
36	5	3168	A
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3176	G
36	5	3177	G
36	5	3178	A
36	5	3179	U
36	5	3181	C
36	5	3185	U
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3206	C
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3224	G
36	5	3227	A
36	5	3229	G
36	5	3234	A
36	5	3238	G
36	5	3239	G
36	5	3244	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3259	U
36	5	3260	G

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Mol	Chain	Res	Type
36	5	3265	C
36	5	3266	G
36	5	3269	U
36	5	3270	U
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3278	C
36	5	3280	U
36	5	3281	U
36	5	3282	U
36	5	3284	G
36	5	3285	C
36	5	3286	G
36	5	3287	U
36	5	3288	G
36	5	3289	G
36	5	3290	G
36	5	3293	U
36	5	3304	U
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3320	A
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3348	G
36	5	3351	U
36	5	3352	U
36	5	3353	G
36	5	3354	U
36	5	3355	U
36	5	3356	G
36	5	3358	U
36	5	3368	U
36	5	3369	G
36	5	3378	C
36	5	3389	U
36	5	3396	U
37	7	22	A

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Mol	Chain	Res	Type
37	7	33	U
37	7	41	G
37	7	49	G
37	7	50	U
37	7	54	U
37	7	60	G
37	7	64	A
37	7	65	G
37	7	73	C
37	7	74	C
37	7	76	A
37	7	93	C
37	7	102	A
37	7	112	G
37	7	121	U
38	8	13	A
38	8	21	C
38	8	34	U
38	8	35	C
38	8	48	A
38	8	50	C
38	8	51	G
38	8	52	A
38	8	59	A
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	85	G
38	8	86	U
38	8	87	G
38	8	95	G
38	8	104	A
38	8	105	A
38	8	106	C
38	8	111	A
38	8	113	U
38	8	116	G

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Mol	Chain	Res	Type
38	8	125	U
38	8	126	A
38	8	156	U
38	8	157	U
38	8	158	U
84	B	75	C

All (213) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	68	A
1	2	73	U
1	2	74	U
1	2	130	C
1	2	131	C
1	2	139	C
1	2	158	U
1	2	192	U
1	2	218	A
1	2	240	U
1	2	242	U
1	2	278	U
1	2	322	G
1	2	417	A
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	811	A
1	2	829	A
1	2	913	G
1	2	1058	U
1	2	1081	A
1	2	1157	A
1	2	1207	C
1	2	1244	A
1	2	1250	U

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Mol	Chain	Res	Type
1	2	1344	A
1	2	1481	C
1	2	1489	U
1	2	1568	C
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1698	G
1	2	1711	C
1	2	1761	U
36	1	13	A
36	1	65	A
36	1	210	U
36	1	239	G
36	1	269	G
36	1	285	A
36	1	397	A
36	1	594	U
36	1	619	A
36	1	637	C
36	1	715	A
36	1	763	G
36	1	873	C
36	1	896	A
36	1	916	G
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1196	C
36	1	1273	A
36	1	1329	U
36	1	1331	U
36	1	1352	A
36	1	1355	A
36	1	1481	A
36	1	1484	U
36	1	1507	G
36	1	1562	C

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Mol	Chain	Res	Type
36	1	1582	C
36	1	1716	U
36	1	1820	U
36	1	1841	A
36	1	2101	C
36	1	2112	U
36	1	2208	A
36	1	2209	U
36	1	2249	G
36	1	2281	A
36	1	2372	A
36	1	2400	G
36	1	2404	A
36	1	2418	G
36	1	2513	U
36	1	2537	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	2801	A
36	1	2818	U
36	1	3078	U
36	1	3121	U
36	1	3195	U
36	1	3218	A
36	1	3228	C
36	1	3269	U
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	52	G
38	4	80	A
38	4	85	G
38	4	125	U
1	6	25	C
1	6	75	U
1	6	76	A
1	6	139	C
1	6	158	U

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Mol	Chain	Res	Type
1	6	187	G
1	6	192	U
1	6	217	A
1	6	272	U
1	6	277	U
1	6	512	A
1	6	542	A
1	6	555	A
1	6	558	U
1	6	678	A
1	6	697	C
1	6	755	A
1	6	829	A
1	6	834	G
1	6	1031	U
1	6	1051	G
1	6	1058	U
1	6	1097	U
1	6	1196	A
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1481	C
1	6	1535	U
1	6	1568	C
1	6	1573	A
1	6	1620	C
1	6	1657	U
1	6	1698	G
1	6	1754	A
36	5	43	A
36	5	151	A
36	5	183	G
36	5	238	A
36	5	438	A
36	5	546	C
36	5	588	G
36	5	715	A
36	5	765	C
36	5	816	A
36	5	873	C
36	5	896	A

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Mol	Chain	Res	Type
36	5	916	G
36	5	993	G
36	5	1017	C
36	5	1027	A
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1222	G
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1307	G
36	5	1329	U
36	5	1352	A
36	5	1355	A
36	5	1367	G
36	5	1481	A
36	5	1554	U
36	5	1560	G
36	5	1571	A
36	5	1774	C
36	5	1815	U
36	5	1816	A
36	5	2101	C
36	5	2112	U
36	5	2209	U
36	5	2249	G
36	5	2255	A
36	5	2281	A
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2531	C
36	5	2539	C
36	5	2586	G
36	5	2728	G
36	5	2772	C
36	5	2801	A
36	5	2818	U
36	5	2874	G
36	5	3056	U
36	5	3078	U

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Mol	Chain	Res	Type
36	5	3154	C
36	5	3195	U
36	5	3228	C
36	5	3269	U
36	5	3275	U
36	5	3276	G
36	5	3289	G
36	5	3317	U
36	5	3340	G
36	5	3341	U
36	5	3357	U
37	7	49	G
38	8	156	U

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
84	8AN	C	76	84,85,89	21,24,25	1.52	4 (19%)	26,35,38	2.36	9 (34%)
84	8AN	B	76	84,85,89	21,24,25	1.50	4 (19%)	26,35,38	2.18	9 (34%)
83	5CT	f	51	83	13,14,15	2.48	3 (23%)	8,15,17	1.75	3 (37%)

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
84	8AN	C	76	84,85,89	-	3/7/25/26	0/3/3/3
84	8AN	B	76	84,85,89	-	2/7/25/26	0/3/3/3
83	5CT	f	51	83	1/1/2/4	6/13/14/16	-

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	f	51	5CT	O1-C2	-7.03	1.22	1.43
84	C	76	8AN	C5-C4	4.66	1.47	1.39
84	B	76	8AN	C5-C4	4.37	1.46	1.39
83	f	51	5CT	C1-NZ	-3.43	1.41	1.47
83	f	51	5CT	CB-CA	3.28	1.58	1.53
84	B	76	8AN	C5-C6	2.78	1.48	1.41
84	B	76	8AN	C8-N7	2.56	1.36	1.31
84	C	76	8AN	C5-C6	2.53	1.48	1.41
84	C	76	8AN	C8-N7	2.41	1.36	1.31
84	C	76	8AN	C5-N7	-2.07	1.35	1.39
84	B	76	8AN	C5-N7	-2.06	1.35	1.39

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	C	76	8AN	C5-C4-N3	-6.46	117.83	126.72
84	B	76	8AN	C5-C4-N3	-5.71	118.86	126.72
84	C	76	8AN	N3-C4-N9	5.42	136.39	127.17
84	B	76	8AN	N3-C4-N9	4.03	134.02	127.17
84	B	76	8AN	C4-C5-N7	-3.86	106.17	110.58
84	C	76	8AN	C2-N3-C4	3.85	121.24	111.83
84	B	76	8AN	C2-N3-C4	3.76	121.01	111.83
83	f	51	5CT	O1-C2-C1	3.34	120.25	109.29
84	C	76	8AN	C4-C5-N7	-3.22	106.90	110.58
84	C	76	8AN	N1-C2-N3	-3.07	123.94	128.58
84	B	76	8AN	N1-C2-N3	-2.97	124.09	128.58
84	C	76	8AN	C4-N9-C8	2.91	108.79	105.74
84	B	76	8AN	C6-C5-N7	2.67	137.25	132.09
84	B	76	8AN	C5-N7-C8	2.67	107.65	103.45
84	C	76	8AN	C5-N7-C8	2.59	107.52	103.45
83	f	51	5CT	O1-C2-C3	2.38	115.69	109.35
84	B	76	8AN	C4-N9-C8	2.33	108.18	105.74
83	f	51	5CT	C1-NZ-CE	-2.28	108.41	113.38
84	B	76	8AN	N9-C8-N7	-2.16	110.87	113.94
84	C	76	8AN	C2'-C3'-C4'	2.15	105.64	102.70
84	C	76	8AN	N9-C8-N7	-2.06	111.01	113.94

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
83	f	51	5CT	C2

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
83	f	51	5CT	CD-CE-NZ-C1
83	f	51	5CT	O1-C2-C3-C4
83	f	51	5CT	C2-C3-C4-N1
83	f	51	5CT	CG-CD-CE-NZ
83	f	51	5CT	NZ-C1-C2-O1
84	C	76	8AN	C4'-C5'-O5'-P
84	B	76	8AN	C4'-C5'-O5'-P
84	C	76	8AN	C3'-C4'-C5'-O5'
84	C	76	8AN	O4'-C4'-C5'-O5'
83	f	51	5CT	C2-C1-NZ-CE
84	B	76	8AN	C3'-C4'-C5'-O5'

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	C	76	8AN	1	0
83	f	51	5CT	5	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2284 ligands modelled in this entry, 1109 are monoatomic - leaving 1175 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	$\# Z > 2$
86	OHX	6	2114	-	0,6,6	-	-	-		
86	OHX	5	3892	-	0,6,6	-	-	-		
86	OHX	6	2136	-	0,6,6	-	-	-		
86	OHX	1	4027	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2120	-	0,6,6	-	-	-		
86	OHX	5	3818	-	0,6,6	-	-	-		
86	OHX	5	4123	-	0,6,6	-	-	-		
86	OHX	1	4065	-	0,6,6	-	-	-		
86	OHX	4	229	-	0,6,6	-	-	-		
86	OHX	6	2035	-	0,6,6	-	-	-		
86	OHX	2	2065	-	0,6,6	-	-	-		
86	OHX	1	3776	-	0,6,6	-	-	-		
86	OHX	5	4114	-	0,6,6	-	-	-		
86	OHX	5	3838	-	0,6,6	-	-	-		
86	OHX	5	4133	-	0,6,6	-	-	-		
86	OHX	5	4015	-	0,6,6	-	-	-		
86	OHX	5	3904	-	0,6,6	-	-	-		
86	OHX	5	3820	-	0,6,6	-	-	-		
86	OHX	5	3998	-	0,6,6	-	-	-		
89	PRO	1	4114	89	6,7,8	0.60	0	7,8,10	1.08	0
86	OHX	1	3888	-	0,6,6	-	-	-		
86	OHX	5	3985	-	0,6,6	-	-	-		
86	OHX	5	3857	-	0,6,6	-	-	-		
86	OHX	6	2150	-	0,6,6	-	-	-		
86	OHX	4	224	-	0,6,6	-	-	-		
86	OHX	1	4066	-	0,6,6	-	-	-		
86	OHX	5	4046	-	0,6,6	-	-	-		
86	OHX	2	2144	-	0,6,6	-	-	-		
86	OHX	1	3860	-	0,6,6	-	-	-		
86	OHX	1	3957	-	0,6,6	-	-	-		
86	OHX	6	2028	-	0,6,6	-	-	-		
86	OHX	1	3793	-	0,6,6	-	-	-		
86	OHX	5	4158	-	0,6,6	-	-	-		
86	OHX	1	3963	-	0,6,6	-	-	-		
86	OHX	n3	202	-	0,6,6	-	-	-		
86	OHX	1	3953	-	0,6,6	-	-	-		
86	OHX	1	3931	-	0,6,6	-	-	-		
86	OHX	5	4016	-	0,6,6	-	-	-		
86	OHX	7	221	-	0,6,6	-	-	-		
86	OHX	1	3923	-	0,6,6	-	-	-		
86	OHX	M7	205	-	0,6,6	-	-	-		
86	OHX	2	2134	-	0,6,6	-	-	-		
86	OHX	1	3875	-	0,6,6	-	-	-		
86	OHX	1	4047	-	0,6,6	-	-	-		
86	OHX	5	4076	-	0,6,6	-	-	-		
86	OHX	5	3880	-	0,6,6	-	-	-		
86	OHX	1	3782	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4122	-	0,6,6	-	-	-		
86	OHX	2	2152	-	0,6,6	-	-	-		
88	SPS	1	4113	85	20,23,23	3.70	13 (65%)	23,30,30	2.69	12 (52%)
86	OHX	1	4081	-	0,6,6	-	-	-		
86	OHX	1	4056	-	0,6,6	-	-	-		
86	OHX	6	2116	-	0,6,6	-	-	-		
86	OHX	2	2063	-	0,6,6	-	-	-		
86	OHX	5	4098	-	0,6,6	-	-	-		
86	OHX	2	2108	-	0,6,6	-	-	-		
86	OHX	2	2030	-	0,6,6	-	-	-		
86	OHX	1	3928	-	0,6,6	-	-	-		
86	OHX	1	4021	-	0,6,6	-	-	-		
86	OHX	1	3802	-	0,6,6	-	-	-		
86	OHX	2	2106	-	0,6,6	-	-	-		
86	OHX	5	3994	-	0,6,6	-	-	-		
86	OHX	5	3884	-	0,6,6	-	-	-		
86	OHX	1	3894	-	0,6,6	-	-	-		
86	OHX	6	2059	-	0,6,6	-	-	-		
86	OHX	2	2105	-	0,6,6	-	-	-		
86	OHX	2	2056	-	0,6,6	-	-	-		
86	OHX	1	3775	-	0,6,6	-	-	-		
86	OHX	1	3817	-	0,6,6	-	-	-		
86	OHX	5	4033	-	0,6,6	-	-	-		
86	OHX	5	4021	-	0,6,6	-	-	-		
86	OHX	5	4072	-	0,6,6	-	-	-		
86	OHX	2	2138	-	0,6,6	-	-	-		
86	OHX	5	3933	-	0,6,6	-	-	-		
86	OHX	8	216	-	0,6,6	-	-	-		
86	OHX	1	3827	-	0,6,6	-	-	-		
86	OHX	2	2120	-	0,6,6	-	-	-		
86	OHX	1	4072	-	0,6,6	-	-	-		
86	OHX	1	3766	-	0,6,6	-	-	-		
86	OHX	5	3910	-	0,6,6	-	-	-		
86	OHX	5	4020	-	0,6,6	-	-	-		
86	OHX	1	3770	-	0,6,6	-	-	-		
86	OHX	5	4099	-	0,6,6	-	-	-		
86	OHX	13	404	-	0,6,6	-	-	-		
86	OHX	1	3877	-	0,6,6	-	-	-		
86	OHX	1	3898	-	0,6,6	-	-	-		
86	OHX	O3	201	-	0,6,6	-	-	-		
86	OHX	1	3926	-	0,6,6	-	-	-		
86	OHX	1	4035	-	0,6,6	-	-	-		
86	OHX	6	2071	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4078	-	0,6,6	-	-	-		
86	OHX	1	3867	-	0,6,6	-	-	-		
86	OHX	1	3783	-	0,6,6	-	-	-		
86	OHX	1	3913	-	0,6,6	-	-	-		
86	OHX	4	218	-	0,6,6	-	-	-		
86	OHX	m5	304	-	0,6,6	-	-	-		
86	OHX	1	3807	-	0,6,6	-	-	-		
86	OHX	5	4097	-	0,6,6	-	-	-		
86	OHX	5	3932	-	0,6,6	-	-	-		
86	OHX	6	2109	-	0,6,6	-	-	-		
86	OHX	5	3859	-	0,6,6	-	-	-		
86	OHX	1	3795	-	0,6,6	-	-	-		
86	OHX	5	4001	-	0,6,6	-	-	-		
86	OHX	1	3905	-	0,6,6	-	-	-		
86	OHX	1	4109	-	0,6,6	-	-	-		
86	OHX	5	3972	-	0,6,6	-	-	-		
86	OHX	5	4058	-	0,6,6	-	-	-		
86	OHX	5	4146	-	0,6,6	-	-	-		
86	OHX	5	3991	-	0,6,6	-	-	-		
86	OHX	7	218	-	0,6,6	-	-	-		
86	OHX	1	4012	-	0,6,6	-	-	-		
86	OHX	1	3819	-	0,6,6	-	-	-		
86	OHX	6	2137	-	0,6,6	-	-	-		
86	OHX	5	3992	-	0,6,6	-	-	-		
86	OHX	5	4144	-	0,6,6	-	-	-		
86	OHX	8	213	-	0,6,6	-	-	-		
86	OHX	2	2099	-	0,6,6	-	-	-		
86	OHX	2	2036	-	0,6,6	-	-	-		
86	OHX	2	2094	-	0,6,6	-	-	-		
86	OHX	6	2042	-	0,6,6	-	-	-		
86	OHX	2	2139	-	0,6,6	-	-	-		
86	OHX	5	4084	36	0,6,6	-	-	-		
86	OHX	5	4080	-	0,6,6	-	-	-		
86	OHX	5	3896	-	0,6,6	-	-	-		
86	OHX	2	2034	-	0,6,6	-	-	-		
86	OHX	8	218	-	0,6,6	-	-	-		
86	OHX	5	4130	-	0,6,6	-	-	-		
86	OHX	1	4097	-	0,6,6	-	-	-		
86	OHX	1	3932	-	0,6,6	-	-	-		
86	OHX	5	3950	-	0,6,6	-	-	-		
86	OHX	2	2072	-	0,6,6	-	-	-		
86	OHX	5	3823	-	0,6,6	-	-	-		
86	OHX	6	2034	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	2	2016	-	0,6,6	-	-	-		
86	OHX	1	3864	-	0,6,6	-	-	-		
86	OHX	2	2097	-	0,6,6	-	-	-		
86	OHX	2	2058	-	0,6,6	-	-	-		
86	OHX	1	3958	-	0,6,6	-	-	-		
86	OHX	1	4009	-	0,6,6	-	-	-		
86	OHX	1	4033	-	0,6,6	-	-	-		
86	OHX	1	3811	-	0,6,6	-	-	-		
86	OHX	3	216	-	0,6,6	-	-	-		
86	OHX	5	4003	-	0,6,6	-	-	-		
86	OHX	2	2075	-	0,6,6	-	-	-		
86	OHX	6	2039	-	0,6,6	-	-	-		
86	OHX	6	2031	-	0,6,6	-	-	-		
86	OHX	5	3897	-	0,6,6	-	-	-		
86	OHX	1	3803	-	0,6,6	-	-	-		
86	OHX	L3	402	-	0,6,6	-	-	-		
86	OHX	1	4074	-	0,6,6	-	-	-		
86	OHX	1	3950	-	0,6,6	-	-	-		
86	OHX	1	4073	-	0,6,6	-	-	-		
86	OHX	6	2118	-	0,6,6	-	-	-		
86	OHX	1	4005	-	0,6,6	-	-	-		
86	OHX	O4	202	-	0,6,6	-	-	-		
86	OHX	6	2064	-	0,6,6	-	-	-		
86	OHX	6	2021	-	0,6,6	-	-	-		
86	OHX	4	231	-	0,6,6	-	-	-		
86	OHX	5	3825	-	0,6,6	-	-	-		
86	OHX	5	3966	-	0,6,6	-	-	-		
86	OHX	5	4034	-	0,6,6	-	-	-		
86	OHX	6	2038	-	0,6,6	-	-	-		
86	OHX	5	3921	-	0,6,6	-	-	-		
86	OHX	c8	203	-	0,6,6	-	-	-		
86	OHX	5	3996	-	0,6,6	-	-	-		
86	OHX	5	4138	-	0,6,6	-	-	-		
86	OHX	5	4162	-	0,6,6	-	-	-		
86	OHX	1	4034	-	0,6,6	-	-	-		
86	OHX	2	2070	-	0,6,6	-	-	-		
86	OHX	5	4005	-	0,6,6	-	-	-		
86	OHX	5	3885	-	0,6,6	-	-	-		
86	OHX	1	3836	-	0,6,6	-	-	-		
86	OHX	2	2010	-	0,6,6	-	-	-		
86	OHX	1	3977	-	0,6,6	-	-	-		
86	OHX	6	2080	-	0,6,6	-	-	-		
86	OHX	6	2104	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4010	-	0,6,6	-	-	-		
86	OHX	4	221	-	0,6,6	-	-	-		
86	OHX	1	3911	-	0,6,6	-	-	-		
86	OHX	5	3827	-	0,6,6	-	-	-		
86	OHX	6	2167	-	0,6,6	-	-	-		
86	OHX	2	2039	-	0,6,6	-	-	-		
86	OHX	5	3829	-	0,6,6	-	-	-		
86	OHX	1	3970	-	0,6,6	-	-	-		
86	OHX	5	4028	-	0,6,6	-	-	-		
86	OHX	1	3855	-	0,6,6	-	-	-		
86	OHX	1	3872	-	0,6,6	-	-	-		
86	OHX	Q2	503	-	0,6,6	-	-	-		
86	OHX	6	2182	-	0,6,6	-	-	-		
86	OHX	5	3943	-	0,6,6	-	-	-		
86	OHX	1	4077	-	0,6,6	-	-	-		
86	OHX	2	2085	-	0,6,6	-	-	-		
86	OHX	sR	401	-	0,6,6	-	-	-		
86	OHX	5	3986	-	0,6,6	-	-	-		
86	OHX	5	3915	-	0,6,6	-	-	-		
86	OHX	1	3882	-	0,6,6	-	-	-		
86	OHX	6	2139	-	0,6,6	-	-	-		
86	OHX	5	3987	-	0,6,6	-	-	-		
86	OHX	1	3927	-	0,6,6	-	-	-		
86	OHX	6	2102	-	0,6,6	-	-	-		
86	OHX	5	4126	-	0,6,6	-	-	-		
86	OHX	L5	301	-	0,6,6	-	-	-		
86	OHX	O1	201	-	0,6,6	-	-	-		
86	OHX	5	3912	-	0,6,6	-	-	-		
86	OHX	2	1997	-	0,6,6	-	-	-		
86	OHX	2	2067	-	0,6,6	-	-	-		
86	OHX	1	3966	-	0,6,6	-	-	-		
86	OHX	1	3785	-	0,6,6	-	-	-		
86	OHX	1	3801	-	0,6,6	-	-	-		
86	OHX	1	3764	-	0,6,6	-	-	-		
86	OHX	1	3919	-	0,6,6	-	-	-		
86	OHX	1	3936	-	0,6,6	-	-	-		
86	OHX	6	2176	-	0,6,6	-	-	-		
86	OHX	5	3929	-	0,6,6	-	-	-		
86	OHX	5	4013	-	0,6,6	-	-	-		
86	OHX	5	4041	-	0,6,6	-	-	-		
86	OHX	2	2007	-	0,6,6	-	-	-		
86	OHX	6	2106	-	0,6,6	-	-	-		
86	OHX	5	3889	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	d4	201	-	0,6,6	-	-	-		
86	OHX	5	3934	-	0,6,6	-	-	-		
86	OHX	8	220	-	0,6,6	-	-	-		
86	OHX	2	2031	-	0,6,6	-	-	-		
86	OHX	5	4105	-	0,6,6	-	-	-		
86	OHX	2	2025	-	0,6,6	-	-	-		
86	OHX	2	2088	-	0,6,6	-	-	-		
86	OHX	1	3993	-	0,6,6	-	-	-		
86	OHX	5	3965	-	0,6,6	-	-	-		
86	OHX	5	4156	-	0,6,6	-	-	-		
86	OHX	1	3850	-	0,6,6	-	-	-		
86	OHX	1	3907	-	0,6,6	-	-	-		
86	OHX	6	2151	-	0,6,6	-	-	-		
86	OHX	2	2116	-	0,6,6	-	-	-		
86	OHX	1	3797	-	0,6,6	-	-	-		
86	OHX	O9	101	-	0,6,6	-	-	-		
86	OHX	1	3863	-	0,6,6	-	-	-		
86	OHX	2	2000	-	0,6,6	-	-	-		
86	OHX	2	2017	-	0,6,6	-	-	-		
86	OHX	1	3973	-	0,6,6	-	-	-		
86	OHX	6	2158	-	0,6,6	-	-	-		
86	OHX	1	4087	-	0,6,6	-	-	-		
86	OHX	6	2094	-	0,6,6	-	-	-		
86	OHX	1	4020	-	0,6,6	-	-	-		
86	OHX	1	4006	-	0,6,6	-	-	-		
86	OHX	1	3772	-	0,6,6	-	-	-		
86	OHX	m7	204	-	0,6,6	-	-	-		
86	OHX	5	3995	-	0,6,6	-	-	-		
86	OHX	1	4053	-	0,6,6	-	-	-		
86	OHX	5	4094	-	0,6,6	-	-	-		
86	OHX	5	4029	-	0,6,6	-	-	-		
86	OHX	5	3883	-	0,6,6	-	-	-		
86	OHX	5	4011	-	0,6,6	-	-	-		
86	OHX	5	4145	-	0,6,6	-	-	-		
86	OHX	1	3828	-	0,6,6	-	-	-		
86	OHX	2	2032	-	0,6,6	-	-	-		
86	OHX	2	2055	-	0,6,6	-	-	-		
86	OHX	6	2036	-	0,6,6	-	-	-		
86	OHX	1	3954	-	0,6,6	-	-	-		
86	OHX	6	2097	-	0,6,6	-	-	-		
86	OHX	1	4068	-	0,6,6	-	-	-		
86	OHX	2	2041	-	0,6,6	-	-	-		
86	OHX	1	3831	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3988	-	0,6,6	-	-	-		
86	OHX	2	2143	-	0,6,6	-	-	-		
86	OHX	1	4018	-	0,6,6	-	-	-		
86	OHX	6	2065	-	0,6,6	-	-	-		
86	OHX	2	2102	-	0,6,6	-	-	-		
86	OHX	1	3870	-	0,6,6	-	-	-		
86	OHX	5	4061	-	0,6,6	-	-	-		
86	OHX	2	2068	-	0,6,6	-	-	-		
86	OHX	2	1998	-	0,6,6	-	-	-		
86	OHX	5	3881	-	0,6,6	-	-	-		
86	OHX	6	2053	-	0,6,6	-	-	-		
86	OHX	1	3995	-	0,6,6	-	-	-		
86	OHX	1	3787	-	0,6,6	-	-	-		
86	OHX	15	303	-	0,6,6	-	-	-		
86	OHX	7	220	-	0,6,6	-	-	-		
86	OHX	1	3971	-	0,6,6	-	-	-		
86	OHX	1	4016	-	0,6,6	-	-	-		
86	OHX	5	4153	-	0,6,6	-	-	-		
86	OHX	1	4024	-	0,6,6	-	-	-		
86	OHX	5	3862	-	0,6,6	-	-	-		
86	OHX	1	3769	-	0,6,6	-	-	-		
86	OHX	6	2165	-	0,6,6	-	-	-		
86	OHX	5	4040	-	0,6,6	-	-	-		
86	OHX	1	3839	-	0,6,6	-	-	-		
86	OHX	5	4070	-	0,6,6	-	-	-		
86	OHX	1	3837	-	0,6,6	-	-	-		
86	OHX	1	4091	-	0,6,6	-	-	-		
86	OHX	5	4067	-	0,6,6	-	-	-		
86	OHX	5	4120	-	0,6,6	-	-	-		
86	OHX	5	3952	-	0,6,6	-	-	-		
86	OHX	5	4085	-	0,6,6	-	-	-		
86	OHX	q2	203	-	0,6,6	-	-	-		
86	OHX	6	2146	-	0,6,6	-	-	-		
86	OHX	4	225	-	0,6,6	-	-	-		
86	OHX	1	3881	-	0,6,6	-	-	-		
86	OHX	1	3908	-	0,6,6	-	-	-		
86	OHX	1	4017	-	0,6,6	-	-	-		
86	OHX	5	4152	-	0,6,6	-	-	-		
86	OHX	5	4049	-	0,6,6	-	-	-		
86	OHX	1	3822	-	0,6,6	-	-	-		
86	OHX	m9	201	-	0,6,6	-	-	-		
86	OHX	1	3848	-	0,6,6	-	-	-		
86	OHX	4	227	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4172	-	0,6,6	-	-	-		
86	OHX	1	4070	-	0,6,6	-	-	-		
86	OHX	2	2011	-	0,6,6	-	-	-		
86	OHX	1	3873	-	0,6,6	-	-	-		
86	OHX	5	4057	-	0,6,6	-	-	-		
86	OHX	2	2135	-	0,6,6	-	-	-		
86	OHX	5	4139	-	0,6,6	-	-	-		
86	OHX	2	2110	-	0,6,6	-	-	-		
86	OHX	1	3996	-	0,6,6	-	-	-		
86	OHX	6	2101	-	0,6,6	-	-	-		
86	OHX	1	3940	-	0,6,6	-	-	-		
86	OHX	4	217	-	0,6,6	-	-	-		
86	OHX	2	2121	-	0,6,6	-	-	-		
86	OHX	1	3999	-	0,6,6	-	-	-		
86	OHX	6	2159	-	0,6,6	-	-	-		
86	OHX	1	3974	-	0,6,6	-	-	-		
86	OHX	2	1994	-	0,6,6	-	-	-		
86	OHX	5	3955	36	0,6,6	-	-	-		
86	OHX	5	3959	-	0,6,6	-	-	-		
86	OHX	1	4044	-	0,6,6	-	-	-		
86	OHX	5	3962	-	0,6,6	-	-	-		
86	OHX	5	4022	-	0,6,6	-	-	-		
89	PRO	5	4173	89	6,7,8	0.49	0	7,8,10	1.33	1 (14%)
86	OHX	1	3879	-	0,6,6	-	-	-		
86	OHX	1	3852	-	0,6,6	-	-	-		
86	OHX	4	222	-	0,6,6	-	-	-		
86	OHX	2	2046	-	0,6,6	-	-	-		
86	OHX	1	4076	-	0,6,6	-	-	-		
86	OHX	5	3931	-	0,6,6	-	-	-		
86	OHX	1	3878	-	0,6,6	-	-	-		
86	OHX	M0	303	-	0,6,6	-	-	-		
86	OHX	5	3834	-	0,6,6	-	-	-		
86	OHX	1	3891	-	0,6,6	-	-	-		
86	OHX	5	4116	-	0,6,6	-	-	-		
86	OHX	6	2164	-	0,6,6	-	-	-		
86	OHX	6	2180	-	0,6,6	-	-	-		
86	OHX	2	2029	-	0,6,6	-	-	-		
86	OHX	1	3845	-	0,6,6	-	-	-		
86	OHX	1	4057	-	0,6,6	-	-	-		
86	OHX	6	2032	-	0,6,6	-	-	-		
86	OHX	1	4095	-	0,6,6	-	-	-		
86	OHX	5	4064	-	0,6,6	-	-	-		
86	OHX	5	4121	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	m4	201	-	0,6,6	-	-	-		
86	OHX	1	3858	-	0,6,6	-	-	-		
86	OHX	6	2041	-	0,6,6	-	-	-		
86	OHX	2	2042	-	0,6,6	-	-	-		
86	OHX	1	4111	-	0,6,6	-	-	-		
86	OHX	2	1991	-	0,6,6	-	-	-		
86	OHX	5	3891	-	0,6,6	-	-	-		
86	OHX	2	2014	-	0,6,6	-	-	-		
86	OHX	1	3955	-	0,6,6	-	-	-		
86	OHX	1	3990	-	0,6,6	-	-	-		
86	OHX	6	2067	1	0,6,6	-	-	-		
86	OHX	6	2012	-	0,6,6	-	-	-		
86	OHX	1	3821	-	0,6,6	-	-	-		
86	OHX	2	2061	-	0,6,6	-	-	-		
86	OHX	2	2089	-	0,6,6	-	-	-		
86	OHX	2	2095	-	0,6,6	-	-	-		
86	OHX	1	3997	-	0,6,6	-	-	-		
86	OHX	M9	202	-	0,6,6	-	-	-		
86	OHX	5	4052	-	0,6,6	-	-	-		
86	OHX	1	3820	-	0,6,6	-	-	-		
86	OHX	5	4163	-	0,6,6	-	-	-		
86	OHX	6	2014	-	0,6,6	-	-	-		
86	OHX	5	3830	-	0,6,6	-	-	-		
86	OHX	d9	102	-	0,6,6	-	-	-		
86	OHX	5	3821	-	0,6,6	-	-	-		
86	OHX	1	3929	-	0,6,6	-	-	-		
86	OHX	5	4063	-	0,6,6	-	-	-		
86	OHX	1	4045	-	0,6,6	-	-	-		
86	OHX	6	2060	-	0,6,6	-	-	-		
86	OHX	1	3982	-	0,6,6	-	-	-		
86	OHX	2	2123	-	0,6,6	-	-	-		
86	OHX	6	2078	-	0,6,6	-	-	-		
86	OHX	4	233	-	0,6,6	-	-	-		
86	OHX	5	4038	-	0,6,6	-	-	-		
86	OHX	1	4090	-	0,6,6	-	-	-		
86	OHX	1	3985	-	0,6,6	-	-	-		
86	OHX	6	2063	-	0,6,6	-	-	-		
86	OHX	6	2131	-	0,6,6	-	-	-		
86	OHX	1	4038	-	0,6,6	-	-	-		
86	OHX	5	3832	-	0,6,6	-	-	-		
86	OHX	1	4108	-	0,6,6	-	-	-		
86	OHX	2	2125	-	0,6,6	-	-	-		
86	OHX	1	3900	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	c5	201	-	0,6,6	-	-	-		
86	OHX	5	4054	-	0,6,6	-	-	-		
86	OHX	5	3930	-	0,6,6	-	-	-		
86	OHX	2	2103	-	0,6,6	-	-	-		
86	OHX	5	3867	-	0,6,6	-	-	-		
86	OHX	5	3954	-	0,6,6	-	-	-		
86	OHX	2	2145	-	0,6,6	-	-	-		
86	OHX	5	4012	-	0,6,6	-	-	-		
86	OHX	1	3786	-	0,6,6	-	-	-		
86	OHX	6	2050	-	0,6,6	-	-	-		
86	OHX	1	4059	-	0,6,6	-	-	-		
86	OHX	2	2064	-	0,6,6	-	-	-		
86	OHX	2	2093	-	0,6,6	-	-	-		
86	OHX	1	4101	-	0,6,6	-	-	-		
86	OHX	O7	104	73	0,6,6	-	-	-		
86	OHX	5	3848	-	0,6,6	-	-	-		
86	OHX	1	3934	-	0,6,6	-	-	-		
86	OHX	1	3871	-	0,6,6	-	-	-		
86	OHX	5	4140	-	0,6,6	-	-	-		
86	OHX	1	3835	-	0,6,6	-	-	-		
86	OHX	6	2099	-	0,6,6	-	-	-		
86	OHX	1	3921	-	0,6,6	-	-	-		
86	OHX	5	3888	-	0,6,6	-	-	-		
86	OHX	5	4066	-	0,6,6	-	-	-		
86	OHX	3	215	-	0,6,6	-	-	-		
86	OHX	5	3873	-	0,6,6	-	-	-		
86	OHX	1	4096	-	0,6,6	-	-	-		
86	OHX	2	2027	-	0,6,6	-	-	-		
86	OHX	5	4161	-	0,6,6	-	-	-		
86	OHX	M5	304	-	0,6,6	-	-	-		
86	OHX	1	3869	-	0,6,6	-	-	-		
86	OHX	6	2153	-	0,6,6	-	-	-		
86	OHX	o3	202	-	0,6,6	-	-	-		
86	OHX	1	4069	-	0,6,6	-	-	-		
86	OHX	8	228	-	0,6,6	-	-	-		
86	OHX	5	4159	-	0,6,6	-	-	-		
86	OHX	2	2077	-	0,6,6	-	-	-		
86	OHX	1	3890	-	0,6,6	-	-	-		
86	OHX	5	3937	-	0,6,6	-	-	-		
86	OHX	2	2006	-	0,6,6	-	-	-		
86	OHX	6	2179	-	0,6,6	-	-	-		
86	OHX	M0	304	-	0,6,6	-	-	-		
86	OHX	2	2098	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3977	-	0,6,6	-	-	-		
86	OHX	2	2015	-	0,6,6	-	-	-		
86	OHX	2	2053	-	0,6,6	-	-	-		
86	OHX	1	3761	-	0,6,6	-	-	-		
86	OHX	5	4118	-	0,6,6	-	-	-		
86	OHX	1	3989	-	0,6,6	-	-	-		
86	OHX	5	4086	-	0,6,6	-	-	-		
86	OHX	1	3843	-	0,6,6	-	-	-		
86	OHX	1	4040	-	0,6,6	-	-	-		
86	OHX	1	4093	-	0,6,6	-	-	-		
86	OHX	6	2020	-	0,6,6	-	-	-		
86	OHX	2	2052	-	0,6,6	-	-	-		
86	OHX	1	3841	-	0,6,6	-	-	-		
86	OHX	5	3903	-	0,6,6	-	-	-		
86	OHX	1	4046	-	0,6,6	-	-	-		
86	OHX	1	3798	-	0,6,6	-	-	-		
86	OHX	6	2156	-	0,6,6	-	-	-		
86	OHX	5	3946	-	0,6,6	-	-	-		
86	OHX	6	2170	-	0,6,6	-	-	-		
86	OHX	3	217	-	0,6,6	-	-	-		
86	OHX	5	4073	-	0,6,6	-	-	-		
86	OHX	5	4027	-	0,6,6	-	-	-		
86	OHX	5	3886	-	0,6,6	-	-	-		
86	OHX	1	3889	-	0,6,6	-	-	-		
86	OHX	6	2044	-	0,6,6	-	-	-		
86	OHX	5	4169	-	0,6,6	-	-	-		
86	OHX	5	4000	-	0,6,6	-	-	-		
86	OHX	2	2009	-	0,6,6	-	-	-		
86	OHX	5	3911	-	0,6,6	-	-	-		
86	OHX	1	3886	-	0,6,6	-	-	-		
86	OHX	1	3847	-	0,6,6	-	-	-		
86	OHX	6	2075	-	0,6,6	-	-	-		
86	OHX	2	2033	-	0,6,6	-	-	-		
86	OHX	5	3928	-	0,6,6	-	-	-		
86	OHX	1	3938	-	0,6,6	-	-	-		
86	OHX	6	2115	-	0,6,6	-	-	-		
86	OHX	5	4095	-	0,6,6	-	-	-		
86	OHX	1	4031	-	0,6,6	-	-	-		
86	OHX	5	3860	-	0,6,6	-	-	-		
86	OHX	N9	101	-	0,6,6	-	-	-		
86	OHX	6	2140	-	0,6,6	-	-	-		
86	OHX	5	4081	-	0,6,6	-	-	-		
86	OHX	7	223	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4082	-	0,6,6	-	-	-		
86	OHX	2	2132	-	0,6,6	-	-	-		
86	OHX	1	4036	-	0,6,6	-	-	-		
86	OHX	1	4083	-	0,6,6	-	-	-		
86	OHX	5	3905	-	0,6,6	-	-	-		
86	OHX	5	4103	-	0,6,6	-	-	-		
86	OHX	5	4030	-	0,6,6	-	-	-		
86	OHX	1	3972	-	0,6,6	-	-	-		
86	OHX	1	4043	-	0,6,6	-	-	-		
86	OHX	6	2173	-	0,6,6	-	-	-		
86	OHX	5	4036	-	0,6,6	-	-	-		
86	OHX	1	3904	-	0,6,6	-	-	-		
86	OHX	5	4050	-	0,6,6	-	-	-		
86	OHX	1	3965	-	0,6,6	-	-	-		
86	OHX	6	2084	-	0,6,6	-	-	-		
86	OHX	5	4060	-	0,6,6	-	-	-		
86	OHX	5	3978	-	0,6,6	-	-	-		
86	OHX	6	2123	-	0,6,6	-	-	-		
86	OHX	5	4148	-	0,6,6	-	-	-		
86	OHX	1	3899	-	0,6,6	-	-	-		
86	OHX	5	4089	-	0,6,6	-	-	-		
86	OHX	8	212	-	0,6,6	-	-	-		
86	OHX	1	3969	-	0,6,6	-	-	-		
86	OHX	6	2166	-	0,6,6	-	-	-		
86	OHX	5	3890	-	0,6,6	-	-	-		
86	OHX	19	201	-	0,6,6	-	-	-		
86	OHX	1	4082	-	0,6,6	-	-	-		
86	OHX	2	2023	-	0,6,6	-	-	-		
86	OHX	2	2013	-	0,6,6	-	-	-		
86	OHX	5	3840	-	0,6,6	-	-	-		
86	OHX	5	3894	-	0,6,6	-	-	-		
86	OHX	5	4141	-	0,6,6	-	-	-		
86	OHX	6	2030	-	0,6,6	-	-	-		
86	OHX	1	3792	-	0,6,6	-	-	-		
86	OHX	7	224	-	0,6,6	-	-	-		
86	OHX	m5	305	-	0,6,6	-	-	-		
86	OHX	1	4050	-	0,6,6	-	-	-		
86	OHX	1	4002	-	0,6,6	-	-	-		
86	OHX	1	3916	-	0,6,6	-	-	-		
86	OHX	1	3906	-	0,6,6	-	-	-		
86	OHX	5	4026	-	0,6,6	-	-	-		
86	OHX	5	4037	-	0,6,6	-	-	-		
86	OHX	2	2084	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3865	-	0,6,6	-	-	-		
86	OHX	1	4049	-	0,6,6	-	-	-		
86	OHX	2	1995	-	0,6,6	-	-	-		
86	OHX	1	4037	-	0,6,6	-	-	-		
86	OHX	1	4064	-	0,6,6	-	-	-		
86	OHX	M8	201	-	0,6,6	-	-	-		
86	OHX	1	3917	-	0,6,6	-	-	-		
86	OHX	1	3856	-	0,6,6	-	-	-		
86	OHX	1	4098	-	0,6,6	-	-	-		
86	OHX	1	3865	-	0,6,6	-	-	-		
86	OHX	5	3842	-	0,6,6	-	-	-		
86	OHX	5	3973	-	0,6,6	-	-	-		
86	OHX	5	4074	-	0,6,6	-	-	-		
86	OHX	8	215	-	0,6,6	-	-	-		
86	OHX	2	2107	-	0,6,6	-	-	-		
86	OHX	5	4093	-	0,6,6	-	-	-		
86	OHX	5	3913	-	0,6,6	-	-	-		
86	OHX	2	2146	-	0,6,6	-	-	-		
86	OHX	1	3846	-	0,6,6	-	-	-		
86	OHX	6	2025	-	0,6,6	-	-	-		
86	OHX	1	3952	-	0,6,6	-	-	-		
86	OHX	5	3964	-	0,6,6	-	-	-		
86	OHX	1	3826	-	0,6,6	-	-	-		
86	OHX	1	3948	-	0,6,6	-	-	-		
86	OHX	5	4025	-	0,6,6	-	-	-		
86	OHX	1	3883	-	0,6,6	-	-	-		
86	OHX	6	2093	-	0,6,6	-	-	-		
86	OHX	6	2172	-	0,6,6	-	-	-		
86	OHX	5	4051	-	0,6,6	-	-	-		
86	OHX	1	4062	-	0,6,6	-	-	-		
86	OHX	8	231	-	0,6,6	-	-	-		
86	OHX	1	3816	-	0,6,6	-	-	-		
86	OHX	6	2073	-	0,6,6	-	-	-		
86	OHX	5	3909	-	0,6,6	-	-	-		
86	OHX	5	4019	-	0,6,6	-	-	-		
86	OHX	5	3927	-	0,6,6	-	-	-		
86	OHX	1	4041	-	0,6,6	-	-	-		
86	OHX	5	4047	-	0,6,6	-	-	-		
86	OHX	5	3831	-	0,6,6	-	-	-		
86	OHX	1	3790	-	0,6,6	-	-	-		
86	OHX	5	4167	-	0,6,6	-	-	-		
86	OHX	1	3861	-	0,6,6	-	-	-		
86	OHX	1	3789	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3829	-	0,6,6	-	-	-		
86	OHX	5	3869	-	0,6,6	-	-	-		
86	OHX	1	4028	-	0,6,6	-	-	-		
86	OHX	5	3939	-	0,6,6	-	-	-		
86	OHX	5	4129	-	0,6,6	-	-	-		
86	OHX	1	3991	-	0,6,6	-	-	-		
86	OHX	2	2148	-	0,6,6	-	-	-		
86	OHX	5	3864	-	0,6,6	-	-	-		
86	OHX	5	4100	-	0,6,6	-	-	-		
86	OHX	5	4032	-	0,6,6	-	-	-		
86	OHX	1	4078	-	0,6,6	-	-	-		
86	OHX	6	2098	-	0,6,6	-	-	-		
86	OHX	3	219	-	0,6,6	-	-	-		
86	OHX	2	2081	-	0,6,6	-	-	-		
86	OHX	6	2056	-	0,6,6	-	-	-		
86	OHX	5	3942	-	0,6,6	-	-	-		
86	OHX	5	4154	-	0,6,6	-	-	-		
86	OHX	2	2004	-	0,6,6	-	-	-		
86	OHX	1	3912	-	0,6,6	-	-	-		
86	OHX	1	3924	-	0,6,6	-	-	-		
86	OHX	5	4071	-	0,6,6	-	-	-		
86	OHX	15	302	-	0,6,6	-	-	-		
86	OHX	7	217	-	0,6,6	-	-	-		
86	OHX	2	2078	-	0,6,6	-	-	-		
86	OHX	6	2155	-	0,6,6	-	-	-		
89	PRO	B	101	84,89	6,7,8	0.68	0	7,8,10	1.31	1 (14%)
86	OHX	1	3851	-	0,6,6	-	-	-		
86	OHX	6	2013	-	0,6,6	-	-	-		
86	OHX	c3	201	-	0,6,6	-	-	-		
86	OHX	6	2152	-	0,6,6	-	-	-		
86	OHX	5	4137	-	0,6,6	-	-	-		
86	OHX	8	224	-	0,6,6	-	-	-		
86	OHX	5	3917	-	0,6,6	-	-	-		
86	OHX	5	3907	-	0,6,6	-	-	-		
86	OHX	1	4094	-	0,6,6	-	-	-		
86	OHX	6	2132	-	0,6,6	-	-	-		
86	OHX	1	4075	-	0,6,6	-	-	-		
86	OHX	s9	201	-	0,6,6	-	-	-		
86	OHX	SR	401	-	0,6,6	-	-	-		
86	OHX	1	3805	-	0,6,6	-	-	-		
86	OHX	5	3836	-	0,6,6	-	-	-		
86	OHX	5	3919	-	0,6,6	-	-	-		
86	OHX	1	3804	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3967	-	0,6,6	-	-	-		
86	OHX	5	4113	-	0,6,6	-	-	-		
86	OHX	1	3765	-	0,6,6	-	-	-		
86	OHX	6	2105	-	0,6,6	-	-	-		
86	OHX	5	4042	-	0,6,6	-	-	-		
86	OHX	2	1996	-	0,6,6	-	-	-		
86	OHX	1	3784	-	0,6,6	-	-	-		
86	OHX	5	4124	-	0,6,6	-	-	-		
86	OHX	2	2073	-	0,6,6	-	-	-		
86	OHX	5	4062	-	0,6,6	-	-	-		
86	OHX	5	4092	-	0,6,6	-	-	-		
86	OHX	5	3976	-	0,6,6	-	-	-		
86	OHX	5	3852	-	0,6,6	-	-	-		
86	OHX	14	403	-	0,6,6	-	-	-		
86	OHX	5	3870	-	0,6,6	-	-	-		
86	OHX	8	225	-	0,6,6	-	-	-		
86	OHX	2	2037	-	0,6,6	-	-	-		
86	OHX	2	2050	-	0,6,6	-	-	-		
86	OHX	1	3933	-	0,6,6	-	-	-		
86	OHX	6	2110	-	0,6,6	-	-	-		
86	OHX	5	3841	-	0,6,6	-	-	-		
86	OHX	5	3968	-	0,6,6	-	-	-		
86	OHX	2	1992	-	0,6,6	-	-	-		
86	OHX	5	4170	-	0,6,6	-	-	-		
86	OHX	5	3924	-	0,6,6	-	-	-		
86	OHX	1	3981	-	0,6,6	-	-	-		
86	OHX	5	4006	-	0,6,6	-	-	-		
86	OHX	2	2062	-	0,6,6	-	-	-		
86	OHX	5	3861	-	0,6,6	-	-	-		
86	OHX	5	4069	-	0,6,6	-	-	-		
86	OHX	5	4149	-	0,6,6	-	-	-		
86	OHX	1	4023	-	0,6,6	-	-	-		
86	OHX	5	4164	-	0,6,6	-	-	-		
86	OHX	2	2133	-	0,6,6	-	-	-		
86	OHX	1	3944	-	0,6,6	-	-	-		
86	OHX	6	2112	-	0,6,6	-	-	-		
86	OHX	8	223	-	0,6,6	-	-	-		
86	OHX	1	4088	-	0,6,6	-	-	-		
86	OHX	1	3779	-	0,6,6	-	-	-		
86	OHX	6	2183	-	0,6,6	-	-	-		
86	OHX	2	2109	-	0,6,6	-	-	-		
86	OHX	2	2091	-	0,6,6	-	-	-		
86	OHX	2	2083	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4058	-	0,6,6	-	-	-		
86	OHX	1	4061	-	0,6,6	-	-	-		
86	OHX	1	4015	-	0,6,6	-	-	-		
86	OHX	5	3944	-	0,6,6	-	-	-		
86	OHX	4	216	-	0,6,6	-	-	-		
86	OHX	5	3953	-	0,6,6	-	-	-		
86	OHX	S6	301	-	0,6,6	-	-	-		
86	OHX	8	222	-	0,6,6	-	-	-		
86	OHX	1	3808	-	0,6,6	-	-	-		
86	OHX	2	2024	-	0,6,6	-	-	-		
86	OHX	1	3857	-	0,6,6	-	-	-		
86	OHX	5	3839	-	0,6,6	-	-	-		
86	OHX	5	4131	-	0,6,6	-	-	-		
86	OHX	5	3925	-	0,6,6	-	-	-		
86	OHX	6	2168	-	0,6,6	-	-	-		
86	OHX	5	4091	-	0,6,6	-	-	-		
86	OHX	5	3851	-	0,6,6	-	-	-		
86	OHX	2	2022	-	0,6,6	-	-	-		
86	OHX	1	3887	-	0,6,6	-	-	-		
86	OHX	5	3844	-	0,6,6	-	-	-		
86	OHX	5	4104	-	0,6,6	-	-	-		
86	OHX	1	4079	-	0,6,6	-	-	-		
86	OHX	1	4032	-	0,6,6	-	-	-		
86	OHX	s4	602	-	0,6,6	-	-	-		
86	OHX	5	4087	-	0,6,6	-	-	-		
86	OHX	1	3962	-	0,6,6	-	-	-		
86	OHX	m1	201	-	0,6,6	-	-	-		
86	OHX	m5	306	-	0,6,6	-	-	-		
86	OHX	2	2054	-	0,6,6	-	-	-		
86	OHX	1	4060	-	0,6,6	-	-	-		
86	OHX	6	2022	-	0,6,6	-	-	-		
86	OHX	2	2008	-	0,6,6	-	-	-		
86	OHX	5	4077	-	0,6,6	-	-	-		
86	OHX	2	2002	-	0,6,6	-	-	-		
86	OHX	2	2131	-	0,6,6	-	-	-		
86	OHX	1	3941	-	0,6,6	-	-	-		
86	OHX	M5	303	-	0,6,6	-	-	-		
86	OHX	2	2113	-	0,6,6	-	-	-		
86	OHX	6	2054	-	0,6,6	-	-	-		
86	OHX	5	3898	-	0,6,6	-	-	-		
86	OHX	5	3926	-	0,6,6	-	-	-		
86	OHX	5	4024	-	0,6,6	-	-	-		
86	OHX	5	4035	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
88	SPS	5	3403	-	20,23,23	3.60	14 (70%)	23,30,30	2.67	13 (56%)
86	OHX	1	4106	-	0,6,6	-	-	-	-	-
86	OHX	5	4053	-	0,6,6	-	-	-	-	-
86	OHX	6	2095	-	0,6,6	-	-	-	-	-
86	OHX	2	2026	-	0,6,6	-	-	-	-	-
86	OHX	5	4101	-	0,6,6	-	-	-	-	-
86	OHX	2	2082	-	0,6,6	-	-	-	-	-
86	OHX	1	3844	-	0,6,6	-	-	-	-	-
86	OHX	2	2074	-	0,6,6	-	-	-	-	-
86	OHX	1	3771	-	0,6,6	-	-	-	-	-
86	OHX	1	3947	-	0,6,6	-	-	-	-	-
86	OHX	1	3949	-	0,6,6	-	-	-	-	-
86	OHX	1	4010	-	0,6,6	-	-	-	-	-
86	OHX	6	2148	-	0,6,6	-	-	-	-	-
86	OHX	6	2066	-	0,6,6	-	-	-	-	-
86	OHX	6	2103	-	0,6,6	-	-	-	-	-
86	OHX	2	2090	-	0,6,6	-	-	-	-	-
86	OHX	5	3822	-	0,6,6	-	-	-	-	-
86	OHX	5	3974	-	0,6,6	-	-	-	-	-
86	OHX	5	3983	-	0,6,6	-	-	-	-	-
86	OHX	6	2082	-	0,6,6	-	-	-	-	-
86	OHX	5	4127	-	0,6,6	-	-	-	-	-
86	OHX	1	3914	-	0,6,6	-	-	-	-	-
86	OHX	7	216	-	0,6,6	-	-	-	-	-
86	OHX	1	3920	-	0,6,6	-	-	-	-	-
86	OHX	5	4090	-	0,6,6	-	-	-	-	-
86	OHX	1	3892	-	0,6,6	-	-	-	-	-
86	OHX	5	3866	-	0,6,6	-	-	-	-	-
86	OHX	1	4055	-	0,6,6	-	-	-	-	-
86	OHX	6	2072	-	0,6,6	-	-	-	-	-
86	OHX	1	3806	-	0,6,6	-	-	-	-	-
86	OHX	6	2149	-	0,6,6	-	-	-	-	-
86	OHX	5	3923	-	0,6,6	-	-	-	-	-
86	OHX	5	4044	-	0,6,6	-	-	-	-	-
86	OHX	6	2177	-	0,6,6	-	-	-	-	-
86	OHX	2	2137	-	0,6,6	-	-	-	-	-
86	OHX	3	212	-	0,6,6	-	-	-	-	-
86	OHX	5	3922	-	0,6,6	-	-	-	-	-
86	OHX	2	2071	-	0,6,6	-	-	-	-	-
86	OHX	5	4048	-	0,6,6	-	-	-	-	-
86	OHX	5	3854	-	0,6,6	-	-	-	-	-
86	OHX	m8	201	-	0,6,6	-	-	-	-	-
86	OHX	5	3938	-	0,6,6	-	-	-	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2081	-	0,6,6	-	-	-		
86	OHX	6	2058	-	0,6,6	-	-	-		
86	OHX	5	4160	-	0,6,6	-	-	-		
86	OHX	2	2040	-	0,6,6	-	-	-		
86	OHX	8	219	-	0,6,6	-	-	-		
86	OHX	6	2134	-	0,6,6	-	-	-		
86	OHX	1	4102	-	0,6,6	-	-	-		
86	OHX	1	3876	-	0,6,6	-	-	-		
86	OHX	5	4045	-	0,6,6	-	-	-		
86	OHX	1	4039	-	0,6,6	-	-	-		
86	OHX	5	3982	-	0,6,6	-	-	-		
86	OHX	6	2169	-	0,6,6	-	-	-		
86	OHX	8	230	-	0,6,6	-	-	-		
86	OHX	5	3961	-	0,6,6	-	-	-		
86	OHX	2	2092	-	0,6,6	-	-	-		
86	OHX	1	3951	-	0,6,6	-	-	-		
86	OHX	6	2089	-	0,6,6	-	-	-		
86	OHX	5	3941	-	0,6,6	-	-	-		
86	OHX	m6	201	-	0,6,6	-	-	-		
86	OHX	6	2171	-	0,6,6	-	-	-		
86	OHX	2	2118	-	0,6,6	-	-	-		
86	OHX	1	3780	-	0,6,6	-	-	-		
86	OHX	1	3895	-	0,6,6	-	-	-		
86	OHX	s1	301	-	0,6,6	-	-	-		
86	OHX	6	2162	-	0,6,6	-	-	-		
86	OHX	6	2016	-	0,6,6	-	-	-		
86	OHX	1	3818	-	0,6,6	-	-	-		
86	OHX	6	2107	-	0,6,6	-	-	-		
86	OHX	2	2119	-	0,6,6	-	-	-		
86	OHX	1	3853	-	0,6,6	-	-	-		
86	OHX	1	3833	-	0,6,6	-	-	-		
86	OHX	1	3814	-	0,6,6	-	-	-		
86	OHX	1	3880	-	0,6,6	-	-	-		
86	OHX	1	4026	-	0,6,6	-	-	-		
86	OHX	6	2100	-	0,6,6	-	-	-		
86	OHX	6	2154	-	0,6,6	-	-	-		
86	OHX	6	2175	-	0,6,6	-	-	-		
86	OHX	5	3879	-	0,6,6	-	-	-		
86	OHX	1	3945	-	0,6,6	-	-	-		
86	OHX	5	3895	-	0,6,6	-	-	-		
86	OHX	C3	201	-	0,6,6	-	-	-		
86	OHX	1	3838	-	0,6,6	-	-	-		
86	OHX	1	3930	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4068	-	0,6,6	-	-	-		
89	PRO	C	101	84,89	6,7,8	0.57	0	7,8,10	1.41	1 (14%)
86	OHX	2	2038	-	0,6,6	-	-	-		
86	OHX	1	3918	-	0,6,6	-	-	-		
86	OHX	5	3872	-	0,6,6	-	-	-		
86	OHX	5	4108	-	0,6,6	-	-	-		
86	OHX	1	4029	-	0,6,6	-	-	-		
86	OHX	2	2151	-	0,6,6	-	-	-		
86	OHX	5	3835	-	0,6,6	-	-	-		
86	OHX	5	4018	-	0,6,6	-	-	-		
86	OHX	2	1999	-	0,6,6	-	-	-		
86	OHX	5	4119	-	0,6,6	-	-	-		
86	OHX	5	3849	-	0,6,6	-	-	-		
86	OHX	2	2018	-	0,6,6	-	-	-		
86	OHX	2	2080	-	0,6,6	-	-	-		
86	OHX	5	4096	-	0,6,6	-	-	-		
86	OHX	1	3935	-	0,6,6	-	-	-		
86	OHX	6	2029	-	0,6,6	-	-	-		
86	OHX	m0	302	-	0,6,6	-	-	-		
86	OHX	1	4022	-	0,6,6	-	-	-		
86	OHX	6	2133	-	0,6,6	-	-	-		
86	OHX	2	2035	-	0,6,6	-	-	-		
86	OHX	5	4075	-	0,6,6	-	-	-		
86	OHX	6	2143	-	0,6,6	-	-	-		
86	OHX	s8	303	-	0,6,6	-	-	-		
86	OHX	5	3901	-	0,6,6	-	-	-		
86	OHX	6	2023	-	0,6,6	-	-	-		
86	OHX	6	2055	-	0,6,6	-	-	-		
86	OHX	2	2005	-	0,6,6	-	-	-		
86	OHX	5	3875	-	0,6,6	-	-	-		
86	OHX	1	3976	-	0,6,6	-	-	-		
86	OHX	5	3989	-	0,6,6	-	-	-		
86	OHX	1	3778	-	0,6,6	-	-	-		
86	OHX	6	2027	-	0,6,6	-	-	-		
86	OHX	2	2142	-	0,6,6	-	-	-		
86	OHX	6	2088	-	0,6,6	-	-	-		
86	OHX	5	3833	-	0,6,6	-	-	-		
86	OHX	2	2111	-	0,6,6	-	-	-		
86	OHX	1	3868	-	0,6,6	-	-	-		
86	OHX	5	3993	-	0,6,6	-	-	-		
86	OHX	6	2068	-	0,6,6	-	-	-		
86	OHX	1	3943	-	0,6,6	-	-	-		
86	OHX	5	4171	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2077	-	0,6,6	-	-	-		
86	OHX	5	4143	-	0,6,6	-	-	-		
86	OHX	2	2128	-	0,6,6	-	-	-		
86	OHX	1	3984	-	0,6,6	-	-	-		
86	OHX	1	4080	-	0,6,6	-	-	-		
86	OHX	4	223	-	0,6,6	-	-	-		
86	OHX	5	4059	-	0,6,6	-	-	-		
86	OHX	1	4104	-	0,6,6	-	-	-		
86	OHX	5	3949	-	0,6,6	-	-	-		
86	OHX	5	3957	-	0,6,6	-	-	-		
86	OHX	6	2121	-	0,6,6	-	-	-		
86	OHX	1	3987	-	0,6,6	-	-	-		
86	OHX	6	2138	-	0,6,6	-	-	-		
86	OHX	2	2127	-	0,6,6	-	-	-		
86	OHX	6	2052	-	0,6,6	-	-	-		
86	OHX	1	3884	-	0,6,6	-	-	-		
86	OHX	D9	102	-	0,6,6	-	-	-		
86	OHX	1	3824	-	0,6,6	-	-	-		
86	OHX	2	2003	-	0,6,6	-	-	-		
86	OHX	S1	301	-	0,6,6	-	-	-		
86	OHX	6	2074	-	0,6,6	-	-	-		
86	OHX	1	3859	-	0,6,6	-	-	-		
86	OHX	1	3975	-	0,6,6	-	-	-		
86	OHX	5	3863	-	0,6,6	-	-	-		
86	OHX	5	3877	-	0,6,6	-	-	-		
86	OHX	5	4128	-	0,6,6	-	-	-		
86	OHX	2	2086	-	0,6,6	-	-	-		
86	OHX	5	3828	-	0,6,6	-	-	-		
86	OHX	5	3971	-	0,6,6	-	-	-		
86	OHX	5	4150	-	0,6,6	-	-	-		
86	OHX	2	2019	-	0,6,6	-	-	-		
86	OHX	5	4166	-	0,6,6	-	-	-		
86	OHX	1	4099	-	0,6,6	-	-	-		
86	OHX	5	3918	-	0,6,6	-	-	-		
86	OHX	2	2021	-	0,6,6	-	-	-		
86	OHX	6	2108	-	0,6,6	-	-	-		
86	OHX	5	4056	-	0,6,6	-	-	-		
86	OHX	5	4043	-	0,6,6	-	-	-		
86	OHX	5	4004	-	0,6,6	-	-	-		
86	OHX	5	3847	-	0,6,6	-	-	-		
86	OHX	2	2066	-	0,6,6	-	-	-		
86	OHX	1	4042	-	0,6,6	-	-	-		
86	OHX	1	4092	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4134	-	0,6,6	-	-	-		
86	OHX	1	4004	-	0,6,6	-	-	-		
86	OHX	5	4109	-	0,6,6	-	-	-		
86	OHX	6	2061	-	0,6,6	-	-	-		
86	OHX	1	3777	-	0,6,6	-	-	-		
86	OHX	6	2163	-	0,6,6	-	-	-		
86	OHX	5	4009	-	0,6,6	-	-	-		
86	OHX	2	2012	-	0,6,6	-	-	-		
86	OHX	6	2046	-	0,6,6	-	-	-		
86	OHX	6	2040	-	0,6,6	-	-	-		
86	OHX	C8	201	-	0,6,6	-	-	-		
86	OHX	2	2150	-	0,6,6	-	-	-		
86	OHX	1	4089	-	0,6,6	-	-	-		
86	OHX	5	4110	-	0,6,6	-	-	-		
86	OHX	5	4079	-	0,6,6	-	-	-		
86	OHX	1	3788	-	0,6,6	-	-	-		
86	OHX	6	2181	-	0,6,6	-	-	-		
86	OHX	5	3824	-	0,6,6	-	-	-		
86	OHX	5	3956	-	0,6,6	-	-	-		
86	OHX	8	226	-	0,6,6	-	-	-		
86	OHX	2	2048	-	0,6,6	-	-	-		
86	OHX	1	3830	-	0,6,6	-	-	-		
86	OHX	6	2043	-	0,6,6	-	-	-		
86	OHX	6	2125	-	0,6,6	-	-	-		
86	OHX	6	2174	-	0,6,6	-	-	-		
86	OHX	5	4151	-	0,6,6	-	-	-		
86	OHX	o7	502	-	0,6,6	-	-	-		
86	OHX	1	3840	-	0,6,6	-	-	-		
86	OHX	1	4003	-	0,6,6	-	-	-		
86	OHX	6	2157	-	0,6,6	-	-	-		
86	OHX	L3	403	-	0,6,6	-	-	-		
86	OHX	5	3906	-	0,6,6	-	-	-		
86	OHX	6	2048	-	0,6,6	-	-	-		
86	OHX	1	3809	-	0,6,6	-	-	-		
86	OHX	1	3767	-	0,6,6	-	-	-		
86	OHX	5	3958	-	0,6,6	-	-	-		
86	OHX	1	3986	-	0,6,6	-	-	-		
86	OHX	5	3850	-	0,6,6	-	-	-		
86	OHX	5	3837	-	0,6,6	-	-	-		
86	OHX	5	4014	-	0,6,6	-	-	-		
86	OHX	6	2119	-	0,6,6	-	-	-		
86	OHX	1	3854	-	0,6,6	-	-	-		
86	OHX	6	2129	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2017	-	0,6,6	-	-	-		
86	OHX	5	3846	-	0,6,6	-	-	-		
86	OHX	1	3842	-	0,6,6	-	-	-		
86	OHX	5	3940	-	0,6,6	-	-	-		
86	OHX	5	3963	-	0,6,6	-	-	-		
86	OHX	6	2051	-	0,6,6	-	-	-		
86	OHX	1	3815	-	0,6,6	-	-	-		
86	OHX	5	3826	-	0,6,6	-	-	-		
86	OHX	M6	203	-	0,6,6	-	-	-		
86	OHX	5	3984	-	0,6,6	-	-	-		
86	OHX	5	4008	-	0,6,6	-	-	-		
86	OHX	1	3897	-	0,6,6	-	-	-		
86	OHX	1	4008	-	0,6,6	-	-	-		
86	OHX	5	4017	-	0,6,6	-	-	-		
86	OHX	2	2087	-	0,6,6	-	-	-		
86	OHX	2	2104	-	0,6,6	-	-	-		
86	OHX	2	2051	-	0,6,6	-	-	-		
86	OHX	2	2101	-	0,6,6	-	-	-		
86	OHX	6	2049	-	0,6,6	-	-	-		
86	OHX	5	3981	-	0,6,6	-	-	-		
86	OHX	1	4105	-	0,6,6	-	-	-		
86	OHX	2	2059	-	0,6,6	-	-	-		
86	OHX	5	4132	-	0,6,6	-	-	-		
86	OHX	5	3856	-	0,6,6	-	-	-		
86	OHX	5	4007	-	0,6,6	-	-	-		
86	OHX	1	3781	-	0,6,6	-	-	-		
86	OHX	1	4051	-	0,6,6	-	-	-		
86	OHX	1	3910	-	0,6,6	-	-	-		
86	OHX	6	2018	-	0,6,6	-	-	-		
86	OHX	5	3878	-	0,6,6	-	-	-		
86	OHX	3	213	-	0,6,6	-	-	-		
86	OHX	6	2076	-	0,6,6	-	-	-		
86	OHX	6	2086	-	0,6,6	-	-	-		
86	OHX	S9	201	-	0,6,6	-	-	-		
86	OHX	6	2113	-	0,6,6	-	-	-		
86	OHX	2	2047	-	0,6,6	-	-	-		
86	OHX	1	3885	-	0,6,6	-	-	-		
86	OHX	2	2117	-	0,6,6	-	-	-		
86	OHX	1	3909	-	0,6,6	-	-	-		
86	OHX	4	220	-	0,6,6	-	-	-		
86	OHX	6	2178	-	0,6,6	-	-	-		
86	OHX	6	2161	-	0,6,6	-	-	-		
86	OHX	5	3899	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3935	-	0,6,6	-	-	-		
86	OHX	2	2130	-	0,6,6	-	-	-		
86	OHX	4	226	-	0,6,6	-	-	-		
86	OHX	5	4111	-	0,6,6	-	-	-		
86	OHX	5	4135	-	0,6,6	-	-	-		
86	OHX	5	3855	-	0,6,6	-	-	-		
86	OHX	8	211	-	0,6,6	-	-	-		
86	OHX	5	3936	-	0,6,6	-	-	-		
86	OHX	1	3967	-	0,6,6	-	-	-		
86	OHX	1	3849	-	0,6,6	-	-	-		
86	OHX	1	4103	-	0,6,6	-	-	-		
86	OHX	6	2128	-	0,6,6	-	-	-		
86	OHX	S8	301	-	0,6,6	-	-	-		
86	OHX	5	3817	-	0,6,6	-	-	-		
86	OHX	1	3813	-	0,6,6	-	-	-		
86	OHX	1	3994	-	0,6,6	-	-	-		
86	OHX	1	4001	-	0,6,6	-	-	-		
86	OHX	5	3843	-	0,6,6	-	-	-		
86	OHX	6	2070	-	0,6,6	-	-	-		
86	OHX	5	3882	-	0,6,6	-	-	-		
86	OHX	8	221	-	0,6,6	-	-	-		
86	OHX	L3	404	-	0,6,6	-	-	-		
86	OHX	1	4100	-	0,6,6	-	-	-		
86	OHX	C5	201	17	0,6,6	-	-	-		
86	OHX	6	2111	-	0,6,6	-	-	-		
86	OHX	5	4155	-	0,6,6	-	-	-		
86	OHX	2	2149	-	0,6,6	-	-	-		
86	OHX	5	3960	-	0,6,6	-	-	-		
86	OHX	7	219	-	0,6,6	-	-	-		
86	OHX	4	230	-	0,6,6	-	-	-		
86	OHX	1	3896	-	0,6,6	-	-	-		
86	OHX	4	232	-	0,6,6	-	-	-		
86	OHX	2	2001	-	0,6,6	-	-	-		
86	OHX	2	2069	-	0,6,6	-	-	-		
86	OHX	1	3799	-	0,6,6	-	-	-		
86	OHX	1	3942	-	0,6,6	-	-	-		
86	OHX	6	2033	-	0,6,6	-	-	-		
86	OHX	6	2160	-	0,6,6	-	-	-		
86	OHX	5	3951	-	0,6,6	-	-	-		
86	OHX	1	3796	-	0,6,6	-	-	-		
86	OHX	5	3997	-	0,6,6	-	-	-		
86	OHX	1	3773	-	0,6,6	-	-	-		
86	OHX	o7	503	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	2	2141	-	0,6,6	-	-	-		
86	OHX	2	2079	-	0,6,6	-	-	-		
86	OHX	5	3900	-	0,6,6	-	-	-		
86	OHX	6	2085	-	0,6,6	-	-	-		
86	OHX	2	2076	-	0,6,6	-	-	-		
86	OHX	1	3939	-	0,6,6	-	-	-		
86	OHX	5	3893	-	0,6,6	-	-	-		
86	OHX	c5	202	17	0,6,6	-	-	-		
86	OHX	7	215	-	0,6,6	-	-	-		
86	OHX	2	2147	-	0,6,6	-	-	-		
86	OHX	2	2126	-	0,6,6	-	-	-		
86	OHX	5	3980	-	0,6,6	-	-	-		
86	OHX	1	3983	-	0,6,6	-	-	-		
86	OHX	3	209	-	0,6,6	-	-	-		
86	OHX	5	3871	-	0,6,6	-	-	-		
86	OHX	5	4142	-	0,6,6	-	-	-		
86	OHX	1	4067	-	0,6,6	-	-	-		
86	OHX	5	3947	-	0,6,6	-	-	-		
86	OHX	7	214	-	0,6,6	-	-	-		
86	OHX	1	4013	-	0,6,6	-	-	-		
86	OHX	2	2122	-	0,6,6	-	-	-		
86	OHX	1	3946	-	0,6,6	-	-	-		
86	OHX	1	3925	-	0,6,6	-	-	-		
86	OHX	3	214	-	0,6,6	-	-	-		
86	OHX	8	217	-	0,6,6	-	-	-		
86	OHX	2	2100	-	0,6,6	-	-	-		
86	OHX	1	3810	-	0,6,6	-	-	-		
86	OHX	5	4065	-	0,6,6	-	-	-		
86	OHX	5	4125	-	0,6,6	-	-	-		
86	OHX	5	4165	-	0,6,6	-	-	-		
86	OHX	6	2087	-	0,6,6	-	-	-		
86	OHX	5	4136	-	0,6,6	-	-	-		
86	OHX	1	4000	-	0,6,6	-	-	-		
86	OHX	1	3968	-	0,6,6	-	-	-		
86	OHX	1	3800	-	0,6,6	-	-	-		
86	OHX	4	228	-	0,6,6	-	-	-		
86	OHX	l3	403	-	0,6,6	-	-	-		
86	OHX	1	3791	-	0,6,6	-	-	-		
86	OHX	5	3887	-	0,6,6	-	-	-		
86	OHX	6	2037	-	0,6,6	-	-	-		
86	OHX	6	2135	-	0,6,6	-	-	-		
86	OHX	6	2057	-	0,6,6	-	-	-		
86	OHX	1	4025	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4002	-	0,6,6	-	-	-		
86	OHX	1	3960	-	0,6,6	-	-	-		
86	OHX	1	3959	-	0,6,6	-	-	-		
86	OHX	5	4147	-	0,6,6	-	-	-		
86	OHX	1	3794	-	0,6,6	-	-	-		
86	OHX	3	218	-	0,6,6	-	-	-		
86	OHX	1	3812	-	0,6,6	-	-	-		
86	OHX	2	2028	-	0,6,6	-	-	-		
86	OHX	2	2057	-	0,6,6	-	-	-		
86	OHX	1	3979	-	0,6,6	-	-	-		
86	OHX	1	4030	-	0,6,6	-	-	-		
86	OHX	6	2062	-	0,6,6	-	-	-		
86	OHX	5	3876	-	0,6,6	-	-	-		
86	OHX	5	4102	-	0,6,6	-	-	-		
86	OHX	1	4110	-	0,6,6	-	-	-		
86	OHX	1	4011	-	0,6,6	-	-	-		
86	OHX	8	227	-	0,6,6	-	-	-		
86	OHX	1	3956	-	0,6,6	-	-	-		
86	OHX	1	4071	36	0,6,6	-	-	-		
86	OHX	1	4084	-	0,6,6	-	-	-		
86	OHX	5	3979	-	0,6,6	-	-	-		
86	OHX	1	3978	-	0,6,6	-	-	-		
86	OHX	5	4088	-	0,6,6	-	-	-		
86	OHX	6	2083	-	0,6,6	-	-	-		
86	OHX	1	3998	-	0,6,6	-	-	-		
86	OHX	1	3862	-	0,6,6	-	-	-		
86	OHX	5	3970	-	0,6,6	-	-	-		
86	OHX	2	2044	-	0,6,6	-	-	-		
86	OHX	6	2024	-	0,6,6	-	-	-		
86	OHX	5	3853	-	0,6,6	-	-	-		
86	OHX	5	3908	-	0,6,6	-	-	-		
86	OHX	m0	303	-	0,6,6	-	-	-		
86	OHX	6	2047	-	0,6,6	-	-	-		
86	OHX	1	4107	-	0,6,6	-	-	-		
86	OHX	6	2079	-	0,6,6	-	-	-		
86	OHX	5	3914	-	0,6,6	-	-	-		
86	OHX	1	4014	-	0,6,6	-	-	-		
86	OHX	6	2092	-	0,6,6	-	-	-		
86	OHX	1	3964	-	0,6,6	-	-	-		
86	OHX	5	4106	-	0,6,6	-	-	-		
86	OHX	2	2114	-	0,6,6	-	-	-		
86	OHX	5	3874	-	0,6,6	-	-	-		
86	OHX	2	2129	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	N8	204	-	0,6,6	-	-	-		
86	OHX	2	2136	-	0,6,6	-	-	-		
86	OHX	5	3819	-	0,6,6	-	-	-		
86	OHX	5	3845	-	0,6,6	-	-	-		
86	OHX	6	2096	-	0,6,6	-	-	-		
86	OHX	8	229	-	0,6,6	-	-	-		
86	OHX	1	3763	-	0,6,6	-	-	-		
86	OHX	2	2140	-	0,6,6	-	-	-		
86	OHX	1	3903	-	0,6,6	-	-	-		
86	OHX	5	4055	-	0,6,6	-	-	-		
86	OHX	2	2124	-	0,6,6	-	-	-		
86	OHX	5	4023	-	0,6,6	-	-	-		
86	OHX	2	2096	-	0,6,6	-	-	-		
86	OHX	2	2049	-	0,6,6	-	-	-		
86	OHX	1	3915	-	0,6,6	-	-	-		
86	OHX	5	4115	-	0,6,6	-	-	-		
86	OHX	5	3920	-	0,6,6	-	-	-		
86	OHX	2	2115	-	0,6,6	-	-	-		
86	OHX	1	4085	-	0,6,6	-	-	-		
86	OHX	1	3834	-	0,6,6	-	-	-		
86	OHX	L4	401	-	0,6,6	-	-	-		
86	OHX	6	2117	-	0,6,6	-	-	-		
86	OHX	6	2130	-	0,6,6	-	-	-		
86	OHX	4	219	-	0,6,6	-	-	-		
86	OHX	5	3969	-	0,6,6	-	-	-		
86	OHX	1	4007	-	0,6,6	-	-	-		
86	OHX	5	4083	-	0,6,6	-	-	-		
86	OHX	6	2090	-	0,6,6	-	-	-		
86	OHX	5	4157	-	0,6,6	-	-	-		
86	OHX	5	4039	-	0,6,6	-	-	-		
86	OHX	1	3774	-	0,6,6	-	-	-		
86	OHX	5	3902	-	0,6,6	-	-	-		
86	OHX	6	2141	-	0,6,6	-	-	-		
86	OHX	1	4052	-	0,6,6	-	-	-		
86	OHX	1	3992	-	0,6,6	-	-	-		
86	OHX	1	3866	-	0,6,6	-	-	-		
86	OHX	3	211	-	0,6,6	-	-	-		
86	OHX	14	402	-	0,6,6	-	-	-		
86	OHX	1	3902	-	0,6,6	-	-	-		
86	OHX	5	3858	-	0,6,6	-	-	-		
86	OHX	1	4019	-	0,6,6	-	-	-		
86	OHX	n9	101	-	0,6,6	-	-	-		
86	OHX	6	2144	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3937	-	0,6,6	-	-	-		
86	OHX	2	2045	-	0,6,6	-	-	-		
86	OHX	2	2112	-	0,6,6	-	-	-		
86	OHX	1	3825	-	0,6,6	-	-	-		
86	OHX	1	3922	-	0,6,6	-	-	-		
86	OHX	6	2015	-	0,6,6	-	-	-		
86	OHX	5	3916	-	0,6,6	-	-	-		
86	OHX	5	3990	-	0,6,6	-	-	-		
86	OHX	6	2045	-	0,6,6	-	-	-		
86	OHX	1	3874	-	0,6,6	-	-	-		
86	OHX	6	2069	-	0,6,6	-	-	-		
86	OHX	2	2060	-	0,6,6	-	-	-		
86	OHX	5	3999	-	0,6,6	-	-	-		
86	OHX	7	222	-	0,6,6	-	-	-		
86	OHX	6	2124	-	0,6,6	-	-	-		
86	OHX	3	210	-	0,6,6	-	-	-		
86	OHX	2	1993	-	0,6,6	-	-	-		
86	OHX	1	3988	-	0,6,6	-	-	-		
86	OHX	1	3832	-	0,6,6	-	-	-		
86	OHX	2	2043	-	0,6,6	-	-	-		
86	OHX	1	3768	-	0,6,6	-	-	-		
86	OHX	1	3823	-	0,6,6	-	-	-		
86	OHX	5	4117	-	0,6,6	-	-	-		
86	OHX	1	3901	-	0,6,6	-	-	-		
86	OHX	1	4054	-	0,6,6	-	-	-		
86	OHX	5	3948	-	0,6,6	-	-	-		
86	OHX	6	2147	-	0,6,6	-	-	-		
86	OHX	1	3961	-	0,6,6	-	-	-		
86	OHX	1	4048	-	0,6,6	-	-	-		
86	OHX	1	4063	-	0,6,6	-	-	-		
86	OHX	6	2091	-	0,6,6	-	-	-		
86	OHX	6	2126	-	0,6,6	-	-	-		
86	OHX	5	4107	-	0,6,6	-	-	-		
86	OHX	6	2026	-	0,6,6	-	-	-		
86	OHX	5	4112	-	0,6,6	-	-	-		
86	OHX	2	2020	-	0,6,6	-	-	-		
86	OHX	o6	201	-	0,6,6	-	-	-		
86	OHX	5	3975	-	0,6,6	-	-	-		
86	OHX	1	3762	-	0,6,6	-	-	-		
86	OHX	s1	302	-	0,6,6	-	-	-		
86	OHX	1	4086	-	0,6,6	-	-	-		
86	OHX	6	2122	-	0,6,6	-	-	-		
86	OHX	1	3893	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2019	-	0,6,6	-	-	-		
86	OHX	6	2142	-	0,6,6	-	-	-		
86	OHX	1	3980	-	0,6,6	-	-	-		
86	OHX	5	3945	-	0,6,6	-	-	-		
86	OHX	6	2145	-	0,6,6	-	-	-		
86	OHX	5	4168	-	0,6,6	-	-	-		
86	OHX	5	3868	-	0,6,6	-	-	-		
86	OHX	8	214	-	0,6,6	-	-	-		
86	OHX	6	2127	-	0,6,6	-	-	-		
86	OHX	5	4031	-	0,6,6	-	-	-		

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
89	PRO	1	4114	89	-	0/0/9/11	0/1/1/1
89	PRO	C	101	84,89	-	0/0/9/11	0/1/1/1
89	PRO	B	101	84,89	-	0/0/9/11	0/1/1/1
88	SPS	5	3403	-	-	1/15/18/18	0/1/1/1
88	SPS	1	4113	85	-	3/15/18/18	0/1/1/1
89	PRO	5	4173	89	-	0/0/9/11	0/1/1/1

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	1	4113	SPS	C9-C10	-8.17	1.31	1.48
88	5	3403	SPS	C9-C10	-8.01	1.31	1.48
88	5	3403	SPS	C9-C8	6.45	1.52	1.33
88	1	4113	SPS	C9-C8	6.30	1.51	1.33
88	5	3403	SPS	O13-C13	-5.44	1.19	1.42
88	1	4113	SPS	O13-C13	-5.36	1.19	1.42
88	1	4113	SPS	C5-N4	-5.29	1.31	1.38
88	5	3403	SPS	C5-N4	-4.77	1.32	1.38
88	1	4113	SPS	C10-N11	4.72	1.44	1.34
88	5	3403	SPS	C10-N11	4.49	1.44	1.34
88	1	4113	SPS	O15-S15	4.45	1.65	1.50
88	5	3403	SPS	O15-S15	4.11	1.64	1.50
88	1	4113	SPS	C6-C1	-3.81	1.37	1.45
88	5	3403	SPS	C1-N2	-3.46	1.32	1.38
88	1	4113	SPS	C1-N2	-3.42	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	1	4113	SPS	C3-N4	-3.15	1.32	1.37
88	5	3403	SPS	C6-C1	-2.99	1.39	1.45
88	5	3403	SPS	O10-C10	-2.84	1.19	1.24
88	1	4113	SPS	O10-C10	-2.72	1.19	1.24
88	5	3403	SPS	C3-N4	-2.54	1.33	1.37
88	5	3403	SPS	O1-C1	-2.46	1.18	1.23
88	1	4113	SPS	O1-C1	-2.44	1.18	1.23
88	5	3403	SPS	C8-C6	2.30	1.53	1.46
88	1	4113	SPS	C8-C6	2.29	1.53	1.46
88	5	3403	SPS	C7-C5	2.18	1.53	1.49
88	5	3403	SPS	C3-N2	-2.10	1.34	1.37
88	1	4113	SPS	O3-C3	-2.02	1.19	1.23

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	1	4113	SPS	C7-C5-C6	-5.55	119.27	126.47
88	5	3403	SPS	C7-C5-N4	5.47	119.78	113.42
88	1	4113	SPS	C7-C5-N4	4.99	119.22	113.42
88	5	3403	SPS	C7-C5-C6	-4.98	120.02	126.47
88	1	4113	SPS	C5-N4-C3	-4.47	120.24	123.70
88	1	4113	SPS	C18-S17-C16	3.89	110.52	100.14
88	5	3403	SPS	C1-N2-C3	-3.81	121.12	126.37
88	5	3403	SPS	C9-C10-N11	3.62	120.80	114.61
88	1	4113	SPS	O13-C13-C12	3.58	120.73	111.73
88	5	3403	SPS	C18-S17-C16	3.30	108.95	100.14
88	1	4113	SPS	C1-N2-C3	-3.25	121.90	126.37
88	5	3403	SPS	O13-C13-C12	3.17	119.70	111.73
88	5	3403	SPS	C6-C1-N2	3.16	119.98	114.45
88	5	3403	SPS	C5-N4-C3	-2.79	121.54	123.70
89	5	4173	PRO	O-C-CA	-2.71	117.80	124.77
88	5	3403	SPS	O10-C10-N11	-2.67	118.95	122.44
89	C	101	PRO	O-C-CA	-2.66	117.92	124.77
88	1	4113	SPS	N4-C3-N2	2.63	119.88	115.74
88	5	3403	SPS	N4-C3-N2	2.56	119.76	115.74
88	1	4113	SPS	C6-C1-N2	2.52	118.86	114.45
88	1	4113	SPS	O15-S15-C16	2.52	109.47	106.47
88	5	3403	SPS	O15-S15-C16	2.46	109.39	106.47
88	1	4113	SPS	C6-C5-N4	2.43	121.50	118.62
89	B	101	PRO	O-C-CA	-2.38	118.65	124.77
88	5	3403	SPS	C9-C8-C6	-2.20	116.62	125.45
88	1	4113	SPS	C9-C10-N11	2.11	118.22	114.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	1	4113	SPS	O3-C3-N4	-2.08	118.17	121.86
88	5	3403	SPS	C8-C9-C10	-2.03	117.25	125.43

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
88	1	4113	SPS	N11-C12-C13-O13
88	1	4113	SPS	C14-C12-C13-O13
88	1	4113	SPS	N11-C12-C14-S15
88	5	3403	SPS	N11-C12-C14-S15

There are no ring outliers.

578 monomers are involved in 838 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4027	OHX	2	0
86	1	4065	OHX	1	0
86	4	229	OHX	1	0
86	1	3776	OHX	1	0
86	5	4114	OHX	3	0
86	5	4133	OHX	1	0
86	5	4015	OHX	2	0
86	5	3904	OHX	2	0
86	5	3998	OHX	1	0
86	6	2150	OHX	1	0
86	4	224	OHX	1	0
86	1	4066	OHX	2	0
86	5	4046	OHX	1	0
86	1	3860	OHX	1	0
86	1	3957	OHX	1	0
86	6	2028	OHX	2	0
86	1	3963	OHX	1	0
86	n3	202	OHX	1	0
86	7	221	OHX	1	0
86	M7	205	OHX	1	0
86	1	3875	OHX	1	0
86	5	4076	OHX	1	0
86	5	3880	OHX	1	0
86	1	3782	OHX	1	0
88	1	4113	SPS	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4081	OHX	1	0
86	2	2108	OHX	2	0
86	2	2106	OHX	1	0
86	1	3894	OHX	1	0
86	2	2105	OHX	1	0
86	1	3775	OHX	1	0
86	5	4072	OHX	1	0
86	2	2138	OHX	1	0
86	5	3933	OHX	2	0
86	8	216	OHX	1	0
86	2	2120	OHX	1	0
86	1	4072	OHX	1	0
86	1	3766	OHX	2	0
86	5	3910	OHX	1	0
86	1	3770	OHX	2	0
86	1	3877	OHX	2	0
86	1	3898	OHX	1	0
86	1	3783	OHX	1	0
86	1	3913	OHX	1	0
86	4	218	OHX	1	0
86	5	4097	OHX	1	0
86	6	2109	OHX	2	0
86	5	3859	OHX	1	0
86	5	4001	OHX	5	0
86	5	4058	OHX	2	0
86	7	218	OHX	1	0
86	1	3819	OHX	1	0
86	5	3992	OHX	1	0
86	5	4144	OHX	2	0
86	2	2099	OHX	4	0
86	2	2036	OHX	1	0
86	5	4084	OHX	5	0
86	5	3896	OHX	1	0
86	2	2034	OHX	2	0
86	8	218	OHX	1	0
86	5	4130	OHX	2	0
86	1	4097	OHX	2	0
86	1	3932	OHX	1	0
86	2	2072	OHX	1	0
86	5	3823	OHX	1	0
86	6	2034	OHX	1	0
86	2	2016	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2097	OHX	1	0
86	2	2058	OHX	5	0
86	1	3958	OHX	1	0
86	1	4033	OHX	2	0
86	1	3811	OHX	1	0
86	3	216	OHX	1	0
86	2	2075	OHX	1	0
86	6	2039	OHX	2	0
86	6	2031	OHX	1	0
86	1	3803	OHX	1	0
86	L3	402	OHX	1	0
86	1	3950	OHX	3	0
86	O4	202	OHX	2	0
86	6	2064	OHX	1	0
86	5	3825	OHX	1	0
86	5	3966	OHX	1	0
86	6	2038	OHX	2	0
86	5	3921	OHX	1	0
86	c8	203	OHX	1	0
86	5	3996	OHX	2	0
86	5	4138	OHX	1	0
86	1	4034	OHX	1	0
86	5	4005	OHX	1	0
86	5	3885	OHX	1	0
86	6	2104	OHX	2	0
86	5	4010	OHX	1	0
86	4	221	OHX	1	0
86	1	3911	OHX	1	0
86	2	2039	OHX	3	0
86	1	3855	OHX	1	0
86	1	3872	OHX	1	0
86	Q2	503	OHX	2	0
86	5	3943	OHX	1	0
86	1	4077	OHX	1	0
86	sR	401	OHX	3	0
86	5	3986	OHX	1	0
86	5	3915	OHX	4	0
86	L5	301	OHX	1	0
86	O1	201	OHX	2	0
86	5	3912	OHX	1	0
86	2	1997	OHX	1	0
86	1	3785	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3919	OHX	1	0
86	1	3936	OHX	1	0
86	5	3929	OHX	2	0
86	5	4013	OHX	1	0
86	5	4041	OHX	1	0
86	5	4105	OHX	1	0
86	1	3993	OHX	1	0
86	5	3965	OHX	1	0
86	1	3850	OHX	1	0
86	6	2151	OHX	1	0
86	2	2116	OHX	2	0
86	O9	101	OHX	1	0
86	1	3863	OHX	1	0
86	2	2000	OHX	1	0
86	1	4087	OHX	1	0
86	6	2094	OHX	2	0
86	m7	204	OHX	1	0
86	5	4011	OHX	2	0
86	1	3828	OHX	1	0
86	2	2032	OHX	1	0
86	2	2055	OHX	1	0
86	6	2036	OHX	1	0
86	2	2041	OHX	3	0
86	1	3831	OHX	1	0
86	5	3988	OHX	1	0
86	2	2143	OHX	1	0
86	1	4018	OHX	1	0
86	2	2102	OHX	1	0
86	1	3870	OHX	2	0
86	5	4061	OHX	2	0
86	5	3881	OHX	1	0
86	6	2053	OHX	1	0
86	1	3787	OHX	1	0
86	l5	303	OHX	3	0
86	5	4153	OHX	1	0
86	5	3862	OHX	1	0
86	1	3769	OHX	2	0
86	1	3839	OHX	1	0
86	5	4070	OHX	1	0
86	1	3837	OHX	1	0
86	5	4120	OHX	3	0
86	q2	203	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	4	225	OHX	1	0
86	1	3881	OHX	2	0
86	5	4152	OHX	1	0
86	5	4049	OHX	1	0
86	4	227	OHX	1	0
86	5	4172	OHX	1	0
86	1	4070	OHX	1	0
86	1	3873	OHX	1	0
86	2	2110	OHX	1	0
86	1	3996	OHX	1	0
86	6	2101	OHX	1	0
86	1	3940	OHX	5	0
86	4	217	OHX	1	0
86	1	3999	OHX	2	0
86	6	2159	OHX	1	0
86	1	3974	OHX	1	0
86	2	1994	OHX	2	0
86	5	3955	OHX	4	0
86	5	3959	OHX	1	0
86	1	4044	OHX	2	0
86	5	3962	OHX	1	0
86	2	2046	OHX	1	0
86	1	4076	OHX	3	0
86	1	3878	OHX	1	0
86	5	3834	OHX	2	0
86	6	2180	OHX	1	0
86	6	2032	OHX	1	0
86	5	4121	OHX	1	0
86	1	3858	OHX	2	0
86	6	2041	OHX	2	0
86	2	2042	OHX	1	0
86	2	1991	OHX	1	0
86	5	3891	OHX	1	0
86	2	2014	OHX	1	0
86	6	2067	OHX	4	0
86	1	3821	OHX	1	0
86	2	2061	OHX	1	0
86	2	2089	OHX	3	0
86	2	2095	OHX	1	0
86	1	3997	OHX	1	0
86	M9	202	OHX	1	0
86	5	4052	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2014	OHX	2	0
86	5	3830	OHX	2	0
86	5	3821	OHX	1	0
86	6	2060	OHX	1	0
86	2	2123	OHX	2	0
86	6	2078	OHX	1	0
86	5	4038	OHX	1	0
86	6	2063	OHX	3	0
86	6	2131	OHX	1	0
86	1	4038	OHX	2	0
86	1	3900	OHX	1	0
86	c5	201	OHX	1	0
86	5	4054	OHX	1	0
86	5	3930	OHX	1	0
86	2	2145	OHX	1	0
86	5	4012	OHX	1	0
86	6	2050	OHX	1	0
86	2	2064	OHX	1	0
86	O7	104	OHX	6	0
86	1	3934	OHX	1	0
86	5	4140	OHX	2	0
86	1	3921	OHX	1	0
86	5	3888	OHX	1	0
86	5	4066	OHX	1	0
86	5	3873	OHX	3	0
86	1	4096	OHX	1	0
86	2	2027	OHX	1	0
86	M5	304	OHX	1	0
86	6	2153	OHX	1	0
86	o3	202	OHX	1	0
86	5	4159	OHX	1	0
86	2	2006	OHX	1	0
86	M0	304	OHX	5	0
86	5	3977	OHX	2	0
86	2	2015	OHX	1	0
86	5	4118	OHX	3	0
86	1	4040	OHX	1	0
86	6	2020	OHX	1	0
86	2	2052	OHX	2	0
86	1	4046	OHX	1	0
86	6	2156	OHX	2	0
86	5	3946	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2170	OHX	3	0
86	5	4027	OHX	1	0
86	5	3886	OHX	1	0
86	1	3889	OHX	4	0
86	6	2044	OHX	1	0
86	5	4000	OHX	1	0
86	5	3911	OHX	1	0
86	1	3847	OHX	1	0
86	2	2033	OHX	1	0
86	5	3928	OHX	1	0
86	1	3938	OHX	2	0
86	6	2115	OHX	2	0
86	N9	101	OHX	1	0
86	5	4082	OHX	1	0
86	2	2132	OHX	1	0
86	1	4036	OHX	1	0
86	1	4083	OHX	1	0
86	5	3905	OHX	1	0
86	5	4103	OHX	2	0
86	1	4043	OHX	1	0
86	6	2173	OHX	1	0
86	1	3904	OHX	1	0
86	5	4060	OHX	1	0
86	5	3978	OHX	3	0
86	6	2123	OHX	2	0
86	5	4148	OHX	1	0
86	1	3899	OHX	1	0
86	5	3890	OHX	1	0
86	1	4082	OHX	6	0
86	2	2013	OHX	1	0
86	5	3894	OHX	3	0
86	5	4141	OHX	1	0
86	1	4050	OHX	1	0
86	1	3906	OHX	1	0
86	5	4037	OHX	1	0
86	2	2084	OHX	2	0
86	1	4049	OHX	1	0
86	2	1995	OHX	1	0
86	1	4037	OHX	2	0
86	1	3856	OHX	1	0
86	1	4098	OHX	1	0
86	5	3842	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	8	215	OHX	1	0
86	5	4093	OHX	2	0
86	1	3952	OHX	1	0
86	5	3964	OHX	1	0
86	1	3826	OHX	1	0
86	6	2172	OHX	1	0
86	8	231	OHX	1	0
86	1	3816	OHX	1	0
86	5	4019	OHX	2	0
86	5	4047	OHX	2	0
86	1	3790	OHX	1	0
86	1	3789	OHX	1	0
86	5	3869	OHX	1	0
86	5	3939	OHX	2	0
86	5	4129	OHX	1	0
86	1	3991	OHX	1	0
86	6	2056	OHX	1	0
86	5	4154	OHX	2	0
86	2	2078	OHX	1	0
86	c3	201	OHX	2	0
86	5	3907	OHX	1	0
86	6	2132	OHX	1	0
86	s9	201	OHX	2	0
86	SR	401	OHX	2	0
86	5	3836	OHX	1	0
86	5	3919	OHX	1	0
86	5	3967	OHX	1	0
86	1	3765	OHX	1	0
86	6	2105	OHX	1	0
86	14	403	OHX	2	0
86	5	3870	OHX	2	0
86	2	2050	OHX	1	0
86	6	2110	OHX	3	0
86	5	3841	OHX	1	0
86	2	1992	OHX	1	0
86	5	4170	OHX	2	0
86	1	3981	OHX	1	0
86	5	3861	OHX	1	0
86	5	4069	OHX	1	0
86	5	4149	OHX	1	0
86	5	4164	OHX	1	0
86	2	2133	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2112	OHX	1	0
86	8	223	OHX	1	0
86	1	3779	OHX	2	0
86	6	2183	OHX	1	0
86	2	2109	OHX	1	0
86	2	2083	OHX	1	0
86	1	4058	OHX	1	0
86	1	4061	OHX	3	0
86	5	3944	OHX	1	0
86	5	3953	OHX	1	0
86	S6	301	OHX	3	0
86	8	222	OHX	1	0
86	5	3839	OHX	2	0
86	5	4131	OHX	1	0
86	5	3925	OHX	1	0
86	6	2168	OHX	1	0
86	1	3887	OHX	1	0
86	5	4104	OHX	1	0
86	1	4032	OHX	1	0
86	5	4087	OHX	1	0
86	m5	306	OHX	1	0
86	1	4060	OHX	3	0
86	6	2022	OHX	2	0
86	2	2008	OHX	3	0
86	2	2002	OHX	2	0
86	2	2131	OHX	4	0
86	M5	303	OHX	1	0
86	6	2054	OHX	1	0
86	5	3926	OHX	1	0
86	5	4024	OHX	1	0
88	5	3403	SPS	5	0
86	1	4106	OHX	1	0
86	5	4053	OHX	3	0
86	6	2095	OHX	1	0
86	2	2026	OHX	1	0
86	5	4101	OHX	1	0
86	2	2082	OHX	1	0
86	1	3844	OHX	1	0
86	2	2074	OHX	2	0
86	1	3771	OHX	1	0
86	1	3949	OHX	1	0
86	6	2103	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3920	OHX	1	0
86	1	4055	OHX	1	0
86	1	3806	OHX	1	0
86	6	2149	OHX	1	0
86	5	3923	OHX	1	0
86	5	3922	OHX	3	0
86	5	4048	OHX	1	0
86	6	2081	OHX	1	0
86	6	2058	OHX	1	0
86	6	2134	OHX	1	0
86	1	4102	OHX	1	0
86	5	3982	OHX	1	0
86	5	3961	OHX	1	0
86	2	2092	OHX	2	0
86	1	3951	OHX	3	0
86	6	2089	OHX	2	0
86	5	3941	OHX	1	0
86	s1	301	OHX	2	0
86	6	2107	OHX	1	0
86	2	2119	OHX	1	0
86	1	3853	OHX	2	0
86	1	3833	OHX	1	0
86	6	2175	OHX	1	0
86	5	3879	OHX	2	0
86	1	3945	OHX	3	0
86	5	3895	OHX	1	0
86	C3	201	OHX	1	0
86	1	3838	OHX	1	0
86	1	3930	OHX	1	0
86	2	2038	OHX	2	0
86	1	4029	OHX	1	0
86	2	2151	OHX	1	0
86	5	3835	OHX	2	0
86	5	3849	OHX	1	0
86	2	2018	OHX	1	0
86	2	2080	OHX	3	0
86	5	4096	OHX	3	0
86	1	3935	OHX	1	0
86	m0	302	OHX	2	0
86	2	2035	OHX	1	0
86	5	3901	OHX	1	0
86	6	2023	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2055	OHX	1	0
86	2	2005	OHX	1	0
86	5	3875	OHX	1	0
86	5	3989	OHX	2	0
86	6	2027	OHX	2	0
86	2	2142	OHX	1	0
86	5	3833	OHX	1	0
86	1	3868	OHX	1	0
86	1	3943	OHX	1	0
86	5	4171	OHX	2	0
86	2	2128	OHX	1	0
86	1	3984	OHX	1	0
86	4	223	OHX	2	0
86	5	3949	OHX	1	0
86	5	3957	OHX	1	0
86	6	2138	OHX	1	0
86	2	2127	OHX	3	0
86	1	3884	OHX	3	0
86	1	3824	OHX	1	0
86	2	2003	OHX	1	0
86	S1	301	OHX	1	0
86	6	2074	OHX	2	0
86	1	3859	OHX	1	0
86	5	3877	OHX	1	0
86	5	3828	OHX	1	0
86	2	2019	OHX	1	0
86	5	4166	OHX	1	0
86	5	3918	OHX	4	0
86	6	2108	OHX	1	0
86	5	4056	OHX	1	0
86	2	2066	OHX	2	0
86	1	3777	OHX	2	0
86	5	4009	OHX	1	0
86	2	2012	OHX	1	0
86	6	2040	OHX	2	0
86	2	2150	OHX	2	0
86	1	3788	OHX	1	0
86	6	2181	OHX	3	0
86	5	3956	OHX	1	0
86	1	3830	OHX	2	0
86	o7	502	OHX	5	0
86	1	3840	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4003	OHX	1	0
86	6	2157	OHX	1	0
86	L3	403	OHX	1	0
86	5	3906	OHX	2	0
86	1	3809	OHX	3	0
86	1	3986	OHX	1	0
86	5	3850	OHX	1	0
86	5	3837	OHX	1	0
86	5	4014	OHX	3	0
86	1	3854	OHX	4	0
86	6	2129	OHX	1	0
86	5	3846	OHX	1	0
86	5	3963	OHX	1	0
86	1	3815	OHX	1	0
86	5	3826	OHX	2	0
86	5	3984	OHX	1	0
86	1	3897	OHX	3	0
86	5	4017	OHX	1	0
86	2	2051	OHX	1	0
86	2	2101	OHX	2	0
86	2	2059	OHX	1	0
86	5	3856	OHX	1	0
86	1	3781	OHX	1	0
86	6	2018	OHX	1	0
86	5	3878	OHX	3	0
86	6	2086	OHX	1	0
86	S9	201	OHX	2	0
86	2	2117	OHX	1	0
86	4	220	OHX	1	0
86	5	3899	OHX	1	0
86	5	3935	OHX	1	0
86	2	2130	OHX	1	0
86	5	3855	OHX	1	0
86	8	211	OHX	1	0
86	5	3936	OHX	2	0
86	1	3967	OHX	2	0
86	1	3849	OHX	1	0
86	S8	301	OHX	1	0
86	5	3817	OHX	1	0
86	1	3813	OHX	1	0
86	1	4001	OHX	1	0
86	6	2070	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4100	OHX	2	0
86	C5	201	OHX	4	0
86	6	2111	OHX	2	0
86	5	3960	OHX	1	0
86	4	230	OHX	1	0
86	2	2001	OHX	2	0
86	1	3942	OHX	2	0
86	6	2033	OHX	1	0
86	1	3796	OHX	1	0
86	5	3997	OHX	1	0
86	2	2079	OHX	1	0
86	5	3900	OHX	1	0
86	6	2085	OHX	1	0
86	2	2076	OHX	1	0
86	1	3939	OHX	1	0
86	c5	202	OHX	4	0
86	3	209	OHX	1	0
86	1	4067	OHX	1	0
86	2	2122	OHX	1	0
86	3	214	OHX	1	0
86	8	217	OHX	2	0
86	1	3810	OHX	1	0
86	5	4125	OHX	1	0
86	6	2087	OHX	1	0
86	1	4000	OHX	1	0
86	1	3800	OHX	1	0
86	4	228	OHX	1	0
86	l3	403	OHX	1	0
86	6	2037	OHX	1	0
86	6	2057	OHX	1	0
86	5	4002	OHX	5	0
86	1	3960	OHX	1	0
86	1	3794	OHX	1	0
86	1	3812	OHX	2	0
86	2	2057	OHX	1	0
86	1	3979	OHX	1	0
86	1	4030	OHX	2	0
86	5	3876	OHX	1	0
86	5	4102	OHX	1	0
86	1	4110	OHX	1	0
86	1	3956	OHX	1	0
86	1	4071	OHX	8	0

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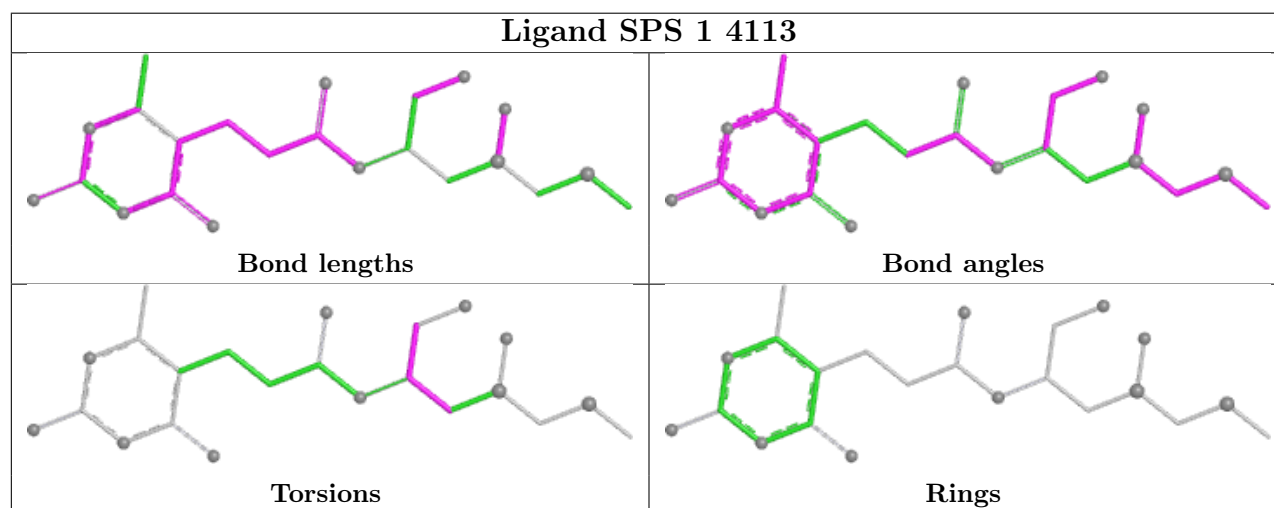
Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3978	OHX	1	0
86	5	4088	OHX	1	0
86	6	2083	OHX	2	0
86	5	3970	OHX	1	0
86	6	2024	OHX	1	0
86	m0	303	OHX	2	0
86	1	4107	OHX	1	0
86	1	4014	OHX	1	0
86	6	2092	OHX	2	0
86	1	3964	OHX	1	0
86	2	2136	OHX	1	0
86	5	3819	OHX	2	0
86	6	2096	OHX	3	0
86	8	229	OHX	2	0
86	1	3763	OHX	1	0
86	2	2124	OHX	1	0
86	2	2049	OHX	1	0
86	1	3915	OHX	1	0
86	1	4085	OHX	4	0
86	1	3834	OHX	1	0
86	L4	401	OHX	3	0
86	4	219	OHX	2	0
86	5	4157	OHX	1	0
86	1	3774	OHX	2	0
86	5	3902	OHX	2	0
86	6	2141	OHX	1	0
86	l4	402	OHX	3	0
86	5	3858	OHX	1	0
86	1	4019	OHX	1	0
86	n9	101	OHX	1	0
86	1	3937	OHX	2	0
86	2	2112	OHX	1	0
86	1	3825	OHX	1	0
86	6	2015	OHX	1	0
86	6	2069	OHX	2	0
86	7	222	OHX	2	0
86	6	2124	OHX	5	0
86	2	1993	OHX	1	0
86	1	3768	OHX	1	0
86	1	3823	OHX	1	0
86	5	4117	OHX	2	0
86	5	3948	OHX	1	0

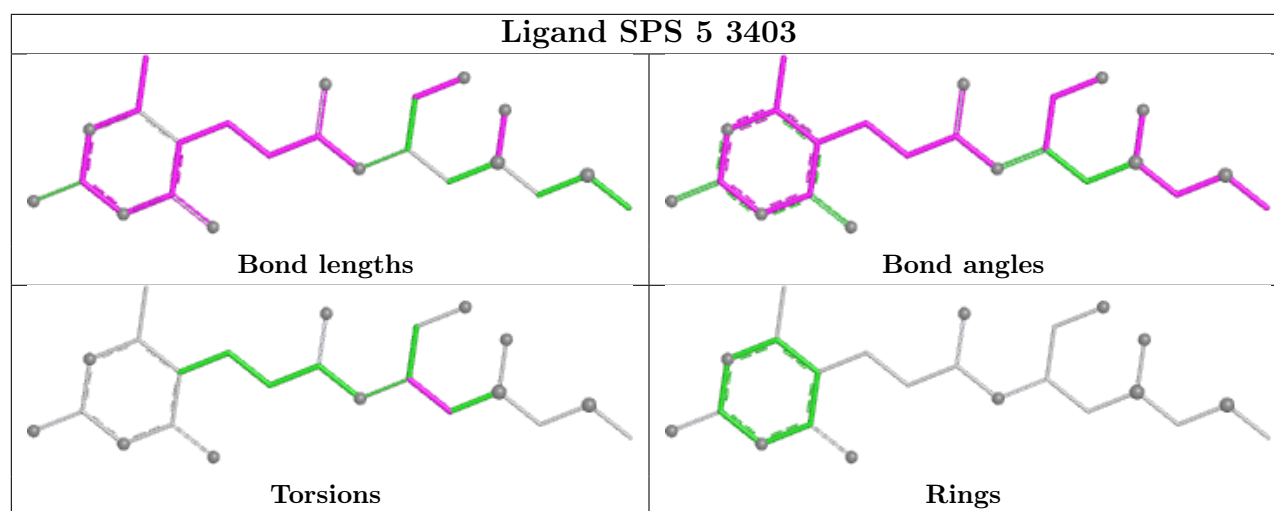
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4048	OHX	1	0
86	5	4112	OHX	1	0
86	2	2020	OHX	1	0
86	1	3893	OHX	2	0
86	5	3945	OHX	1	0
86	6	2145	OHX	1	0
86	6	2127	OHX	2	0

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.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	2	2
80	m2	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1716:C	O3'	1717:G	P	5.10
1	m2	23:LEU	C	28:ARG	N	3.71
1	m2	52:LYS	C	54:LYS	N	3.25
1	2	1685:G	O3'	1686:C	P	2.98

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	2	1781/1800 (98%)	0.08	29 (1%) 70 46	42, 100, 190, 245	1 (0%)
1	6	1795/1800 (99%)	-0.12	23 (1%) 75 51	33, 84, 172, 231	1 (0%)
2	S0	206/251 (82%)	0.73	9 (4%) 39 23	99, 112, 122, 125	0
2	s0	206/251 (82%)	0.50	7 (3%) 48 29	78, 93, 107, 115	0
3	S1	214/254 (84%)	0.92	22 (10%) 12 9	114, 152, 175, 179	0
3	s1	216/254 (85%)	0.26	4 (1%) 66 42	80, 93, 110, 126	0
4	S2	217/253 (85%)	0.55	9 (4%) 41 24	79, 95, 109, 118	0
4	s2	217/253 (85%)	0.38	10 (4%) 37 21	63, 79, 90, 99	0
5	S3	223/239 (93%)	0.45	7 (3%) 51 31	90, 103, 122, 135	0
5	s3	223/239 (93%)	0.36	6 (2%) 56 33	83, 108, 131, 139	0
6	S4	260/260 (100%)	0.51	8 (3%) 51 31	78, 101, 111, 133	0
6	s4	260/260 (100%)	0.23	3 (1%) 76 53	56, 79, 94, 113	0
7	S5	206/224 (91%)	0.61	13 (6%) 26 17	107, 122, 134, 144	0
7	s5	206/224 (91%)	0.51	6 (2%) 53 32	88, 106, 123, 134	0
8	S6	226/236 (95%)	0.79	22 (9%) 13 10	77, 113, 131, 142	0
8	s6	218/236 (92%)	0.35	10 (4%) 37 21	56, 85, 110, 123	0
9	S7	184/189 (97%)	0.68	6 (3%) 49 29	96, 127, 147, 152	0
9	s7	186/189 (98%)	0.30	3 (1%) 70 46	70, 103, 132, 139	0
10	S8	188/200 (94%)	0.49	2 (1%) 78 54	68, 88, 122, 139	0
10	s8	188/200 (94%)	0.35	8 (4%) 40 23	52, 69, 110, 129	0
11	S9	185/196 (94%)	0.61	7 (3%) 44 26	91, 107, 137, 157	0
11	s9	185/196 (94%)	0.65	11 (5%) 28 18	68, 87, 125, 146	0
12	C0	96/105 (91%)	0.64	5 (5%) 33 20	96, 121, 141, 151	0
12	c0	96/105 (91%)	0.91	14 (14%) 6 5	105, 136, 149, 150	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	C1	155/155 (100%)	0.58	9 (5%) 29 18	71, 84, 118, 130	0
13	c1	146/155 (94%)	0.50	8 (5%) 30 19	54, 66, 94, 115	0
14	C2	124/142 (87%)	0.95	14 (11%) 10 8	149, 161, 174, 180	0
14	c2	124/142 (87%)	0.97	16 (12%) 7 6	180, 196, 211, 215	0
15	C3	150/150 (100%)	0.38	4 (2%) 56 33	79, 94, 109, 115	0
15	c3	150/150 (100%)	0.14	2 (1%) 75 51	62, 76, 93, 96	0
16	C4	127/136 (93%)	1.15	15 (11%) 9 7	83, 146, 158, 162	0
16	c4	128/136 (94%)	0.34	0 100 100	64, 96, 104, 109	0
17	C5	124/141 (87%)	0.44	3 (2%) 59 37	87, 103, 120, 130	0
17	c5	135/141 (95%)	0.53	8 (5%) 28 18	72, 107, 122, 123	0
18	C6	141/142 (99%)	0.80	10 (7%) 22 15	92, 110, 116, 118	0
18	c6	142/142 (100%)	0.83	14 (9%) 13 9	82, 104, 118, 136	0
19	C7	120/136 (88%)	0.61	7 (5%) 29 18	95, 110, 129, 131	0
19	c7	117/136 (86%)	0.54	5 (4%) 40 23	85, 102, 114, 122	0
20	C8	145/145 (100%)	0.58	4 (2%) 55 33	85, 109, 135, 142	0
20	c8	145/145 (100%)	0.61	9 (6%) 26 17	83, 101, 117, 124	0
21	C9	143/143 (100%)	0.86	8 (5%) 30 19	95, 110, 125, 133	0
21	c9	143/143 (100%)	0.61	8 (5%) 30 19	82, 98, 115, 123	0
22	D0	107/120 (89%)	0.68	5 (4%) 36 21	86, 114, 136, 138	0
22	d0	110/120 (91%)	0.56	6 (5%) 30 19	85, 115, 144, 149	0
23	D1	87/87 (100%)	0.46	3 (3%) 48 29	96, 103, 117, 122	0
23	d1	87/87 (100%)	0.21	0 100 100	71, 82, 104, 111	0
24	D2	129/129 (100%)	0.65	2 (1%) 70 46	80, 92, 101, 111	0
24	d2	129/129 (100%)	0.05	0 100 100	59, 68, 75, 84	0
25	D3	144/144 (100%)	0.34	2 (1%) 73 49	70, 78, 90, 102	0
25	d3	144/144 (100%)	0.17	3 (2%) 63 39	52, 57, 70, 81	0
26	D4	134/134 (100%)	0.58	7 (5%) 33 20	89, 111, 123, 127	0
26	d4	134/134 (100%)	0.41	4 (2%) 52 31	65, 88, 100, 105	0
27	D5	70/107 (65%)	0.57	3 (4%) 40 23	118, 134, 141, 146	0
27	d5	69/107 (64%)	0.60	4 (5%) 29 18	98, 112, 124, 126	0
28	D6	97/97 (100%)	1.00	15 (15%) 5 5	86, 108, 160, 162	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	d6	97/97 (100%)	0.60	3 (3%) 51 31	67, 84, 111, 116	0
29	D7	81/81 (100%)	0.74	4 (4%) 35 21	95, 113, 139, 143	0
29	d7	81/81 (100%)	0.49	4 (4%) 35 21	72, 90, 127, 128	0
30	D8	63/66 (95%)	0.62	4 (6%) 26 17	114, 131, 139, 144	0
30	d8	63/66 (95%)	0.51	3 (4%) 35 21	105, 118, 125, 128	0
31	D9	53/55 (96%)	0.76	4 (7%) 20 14	85, 90, 108, 114	0
31	d9	53/55 (96%)	0.67	3 (5%) 29 18	82, 92, 128, 145	0
32	E0	60/63 (95%)	0.37	1 (1%) 69 44	80, 110, 134, 137	0
32	e0	62/63 (98%)	0.62	7 (11%) 10 8	60, 88, 117, 120	0
33	E1	71/76 (93%)	0.89	8 (11%) 10 8	115, 142, 155, 157	0
33	e1	76/76 (100%)	1.07	14 (18%) 3 4	117, 168, 186, 187	0
34	SR	318/318 (100%)	0.69	27 (8%) 16 12	109, 122, 138, 156	0
34	sR	318/318 (100%)	0.59	12 (3%) 44 26	112, 127, 141, 153	0
35	SM	159/273 (58%)	0.57	11 (6%) 23 15	58, 100, 159, 163	0
35	sM	104/273 (38%)	0.61	5 (4%) 35 21	51, 115, 188, 197	0
36	1	3149/3396 (92%)	-0.32	28 (0%) 81 58	33, 58, 136, 238	0
36	5	3150/3396 (92%)	-0.43	22 (0%) 84 64	28, 52, 127, 213	0
37	3	121/121 (100%)	-0.31	0 100 100	42, 77, 90, 98	0
37	7	121/121 (100%)	-0.48	1 (0%) 82 61	33, 55, 66, 75	0
38	4	158/158 (100%)	-0.46	1 (0%) 85 66	42, 63, 102, 146	0
38	8	158/158 (100%)	-0.50	1 (0%) 85 66	42, 63, 101, 131	0
39	L2	252/253 (99%)	0.22	3 (1%) 76 53	40, 60, 78, 84	0
39	l2	252/253 (99%)	0.16	2 (0%) 82 61	36, 55, 73, 80	0
40	L3	386/386 (100%)	0.06	4 (1%) 79 56	37, 62, 77, 88	0
40	l3	386/386 (100%)	-0.16	7 (1%) 67 43	28, 45, 60, 81	0
41	L4	361/361 (100%)	0.06	8 (2%) 62 39	38, 54, 69, 74	0
41	l4	361/361 (100%)	0.02	5 (1%) 73 49	37, 56, 74, 82	0
42	L5	296/296 (100%)	0.32	3 (1%) 79 56	58, 80, 98, 119	0
42	l5	294/296 (99%)	0.04	6 (2%) 65 41	42, 56, 82, 97	0
43	L6	156/175 (89%)	0.04	2 (1%) 75 51	46, 56, 72, 87	0
43	l6	157/175 (89%)	-0.00	1 (0%) 85 66	48, 57, 78, 93	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	L7	222/243 (91%)	-0.13	1 (0%) 87 70	38, 47, 77, 104	0
44	l7	223/243 (91%)	-0.22	1 (0%) 88 73	33, 45, 82, 112	0
45	L8	233/255 (91%)	0.43	8 (3%) 48 29	68, 84, 110, 120	0
45	l8	231/255 (90%)	0.41	6 (2%) 57 34	69, 82, 107, 117	0
46	L9	191/191 (100%)	0.15	2 (1%) 79 56	59, 71, 82, 94	0
46	l9	191/191 (100%)	-0.16	1 (0%) 87 70	41, 51, 68, 78	0
47	M0	211/220 (95%)	0.16	7 (3%) 49 29	44, 63, 94, 105	0
47	m0	213/220 (96%)	0.09	5 (2%) 61 38	39, 54, 78, 94	0
48	M1	169/173 (97%)	0.31	3 (1%) 67 43	68, 85, 97, 103	0
48	m1	169/173 (97%)	-0.04	1 (0%) 85 66	47, 66, 77, 81	0
49	M3	193/198 (97%)	-0.02	0 100 100	36, 63, 101, 122	0
49	m3	194/198 (97%)	0.08	4 (2%) 63 39	38, 67, 104, 119	0
50	M4	136/137 (99%)	-0.09	0 100 100	50, 59, 72, 83	0
50	m4	137/137 (100%)	-0.20	3 (2%) 62 39	43, 50, 66, 84	0
51	M5	203/203 (100%)	0.36	2 (0%) 79 56	39, 56, 67, 71	0
51	m5	203/203 (100%)	0.28	2 (0%) 79 56	40, 58, 68, 73	0
52	M6	197/198 (99%)	0.08	2 (1%) 79 56	25, 32, 46, 49	0
52	m6	197/198 (99%)	0.03	2 (1%) 79 56	18, 24, 45, 52	0
53	M7	183/183 (100%)	0.12	10 (5%) 30 19	44, 52, 105, 133	0
53	m7	155/183 (84%)	-0.17	0 100 100	36, 45, 55, 77	0
54	M8	185/185 (100%)	0.03	3 (1%) 70 46	42, 51, 68, 88	0
54	m8	185/185 (100%)	-0.04	0 100 100	39, 53, 64, 72	0
55	M9	188/188 (100%)	0.37	8 (4%) 40 23	64, 78, 147, 156	0
55	m9	188/188 (100%)	0.03	0 100 100	50, 62, 123, 138	0
56	N0	172/172 (100%)	-0.03	3 (1%) 69 44	37, 56, 70, 75	0
56	n0	172/172 (100%)	-0.29	2 (1%) 76 53	32, 45, 57, 67	0
57	N1	159/159 (100%)	0.03	1 (0%) 85 66	41, 56, 99, 105	0
57	n1	159/159 (100%)	-0.08	2 (1%) 75 51	37, 45, 82, 88	0
58	N2	100/120 (83%)	0.53	4 (4%) 42 25	94, 106, 112, 117	0
58	n2	98/120 (81%)	0.32	2 (2%) 65 41	74, 85, 93, 95	0
59	N3	136/136 (100%)	0.14	1 (0%) 84 64	49, 59, 73, 82	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
59	n3	136/136 (100%)	-0.27	0 100 100	31, 41, 52, 57	0
60	N4	98/155 (63%)	0.72	14 (14%) 6 6	59, 74, 147, 155	0
60	n4	135/155 (87%)	0.50	15 (11%) 10 8	41, 93, 124, 142	0
61	N5	121/141 (85%)	0.15	0 100 100	59, 71, 86, 103	0
61	n5	120/141 (85%)	-0.01	3 (2%) 58 35	55, 68, 82, 97	0
62	N6	126/126 (100%)	0.22	3 (2%) 59 37	48, 64, 77, 85	0
62	n6	126/126 (100%)	0.13	0 100 100	50, 66, 82, 85	0
63	N7	135/135 (100%)	0.50	2 (1%) 72 48	83, 96, 107, 111	0
63	n7	135/135 (100%)	0.35	1 (0%) 84 64	78, 89, 101, 109	0
64	N8	148/148 (100%)	-0.15	0 100 100	32, 54, 76, 82	0
64	n8	148/148 (100%)	0.03	3 (2%) 65 41	34, 55, 72, 75	0
65	N9	58/58 (100%)	0.05	1 (1%) 69 44	36, 59, 97, 113	0
65	n9	58/58 (100%)	0.19	1 (1%) 69 44	36, 55, 76, 82	0
66	O0	97/104 (93%)	0.13	2 (2%) 63 39	83, 90, 106, 111	0
66	o0	100/104 (96%)	0.09	1 (1%) 79 56	69, 79, 98, 105	0
67	O1	109/112 (97%)	0.25	0 100 100	60, 73, 94, 101	0
67	o1	109/112 (97%)	-0.02	0 100 100	44, 56, 89, 97	0
68	O2	127/129 (98%)	-0.04	2 (1%) 70 46	34, 48, 63, 79	0
68	o2	127/129 (98%)	-0.04	1 (0%) 82 61	32, 52, 67, 78	0
69	O3	106/106 (100%)	0.05	1 (0%) 81 58	39, 46, 70, 82	0
69	o3	106/106 (100%)	-0.10	0 100 100	36, 44, 71, 82	0
70	O4	112/121 (92%)	0.62	4 (3%) 46 27	57, 74, 110, 117	0
70	o4	112/121 (92%)	0.60	10 (8%) 15 11	50, 66, 101, 108	0
71	O5	119/119 (100%)	0.22	1 (0%) 82 61	56, 73, 80, 83	0
71	o5	119/119 (100%)	0.14	1 (0%) 82 61	58, 71, 86, 96	0
72	O6	99/99 (100%)	0.18	0 100 100	59, 70, 100, 111	0
72	o6	99/99 (100%)	0.19	1 (1%) 79 56	62, 72, 91, 110	0
73	O7	87/87 (100%)	0.22	1 (1%) 78 54	41, 49, 70, 80	0
73	o7	87/87 (100%)	-0.03	1 (1%) 78 54	37, 48, 79, 85	0
74	O8	77/77 (100%)	0.35	2 (2%) 57 34	85, 97, 107, 108	0
74	o8	77/77 (100%)	0.11	1 (1%) 75 51	75, 85, 94, 97	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	O9	50/50 (100%)	0.25	0 100 100	51, 57, 61, 62	0
75	o9	50/50 (100%)	0.02	1 (2%) 65 41	49, 54, 63, 64	0
76	Q0	52/52 (100%)	0.21	0 100 100	53, 59, 74, 82	0
76	q0	52/52 (100%)	-0.31	1 (1%) 66 42	38, 42, 52, 57	0
77	Q1	25/25 (100%)	0.53	1 (4%) 42 25	62, 66, 72, 74	0
77	q1	25/25 (100%)	0.01	0 100 100	49, 53, 54, 55	0
78	Q2	105/105 (100%)	-0.10	0 100 100	41, 55, 76, 97	0
78	q2	105/105 (100%)	-0.14	1 (0%) 79 56	40, 53, 69, 96	0
79	Q3	91/91 (100%)	0.16	1 (1%) 78 54	49, 65, 79, 85	0
79	q3	91/91 (100%)	0.03	2 (2%) 62 39	40, 55, 71, 81	0
80	m2	150/165 (90%)	1.13	20 (13%) 7 6	102, 138, 156, 161	0
81	p0	143/311 (45%)	0.81	13 (9%) 15 11	100, 125, 220, 229	0
82	p1	47/106 (44%)	1.32	7 (14%) 5 5	179, 224, 242, 245	0
82	p2	46/106 (43%)	1.55	12 (26%) 1 2	275, 283, 288, 289	0
83	f	147/157 (93%)	1.94	51 (34%) 1 1	23, 77, 157, 159	74 (50%)
84	B	2/3 (66%)	0.00	0 100 100	45, 45, 45, 48	0
84	C	2/3 (66%)	-0.11	0 100 100	40, 40, 40, 45	0
All	All	33488/35639 (93%)	0.14	914 (2%) 56 33	18, 74, 141, 289	76 (0%)

All (914) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
83	f	52	HIS	15.6
83	f	50	GLY	15.0
83	f	53	GLY	11.6
83	f	49	THR	10.0
13	c1	3	THR	8.3
8	S6	78	THR	7.0
1	2	1756[A]	A	6.0
60	N4	88	ASP	5.8
10	S8	152	ILE	5.7
1	2	913	G	5.7
73	O7	88	ALA	5.6
60	N4	86	SER	5.6
7	s5	37	GLN	5.5
8	S6	77	LEU	5.5

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Mol	Chain	Res	Type	RSRZ
22	d0	64	LYS	5.5
13	c1	4	GLU	5.3
56	N0	1	MET	5.2
36	1	3275	U	5.2
37	7	73	C	5.1
8	S6	80	ASN	5.1
83	f	54	HIS	5.1
80	m2	18	VAL	5.0
36	1	2205	U	5.0
1	6	794	U	4.9
60	N4	85	ALA	4.8
83	f	24	SER	4.8
12	c0	2	LEU	4.7
83	f	149	SER	4.7
60	N4	84	GLY	4.6
11	s9	148	VAL	4.5
16	C4	39	ILE	4.4
83	f	69	LYS	4.4
6	s4	39	ARG	4.4
16	C4	75	GLY	4.4
8	S6	79	LYS	4.4
21	c9	18	TYR	4.4
3	S1	91	VAL	4.3
22	D0	81	THR	4.3
82	p2	8	SER	4.3
20	c8	18	LEU	4.3
53	M7	161	ALA	4.3
82	p2	31	ASN	4.3
21	C9	36	ILE	4.2
34	SR	79	TYR	4.2
83	f	14	GLY	4.2
60	n4	95	SER	4.2
7	S5	152	GLY	4.2
11	S9	4	ALA	4.1
83	f	62	ILE	4.1
16	C4	15	GLY	4.1
18	c6	2	SER	4.1
83	f	157	ASP	4.1
13	c1	117	VAL	4.0
4	s2	181	SER	4.0
28	d6	16	GLY	4.0
21	c9	55	TYR	4.0

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Mol	Chain	Res	Type	RSRZ
22	D0	82	TYR	4.0
45	l8	124	ASP	4.0
8	S6	74	LYS	4.0
80	m2	19	LYS	4.0
60	n4	88	ASP	4.0
60	N4	76	VAL	3.9
7	S5	37	GLN	3.9
1	2	1702	A	3.9
12	c0	22	VAL	3.9
36	5	3275	U	3.9
18	C6	20	ALA	3.9
1	2	1694	A	3.9
7	S5	71	ALA	3.9
40	l3	363	SER	3.9
3	S1	47	LEU	3.9
59	N3	2	SER	3.9
18	c6	49	TYR	3.8
13	C1	68	GLY	3.8
30	d8	24	GLY	3.8
36	1	2401	A	3.8
1	2	1699	G	3.8
53	M7	165	VAL	3.8
41	L4	63	GLU	3.8
18	c6	46	PHE	3.8
2	s0	170	ILE	3.8
15	C3	11	ILE	3.8
41	L4	69	ARG	3.8
80	m2	121	GLU	3.8
8	s6	76	LEU	3.8
29	d7	24	LEU	3.8
80	m2	58	ASP	3.7
48	M1	127	PHE	3.7
17	c5	134	THR	3.7
33	e1	77	GLY	3.7
53	M7	160	ALA	3.7
20	C8	146	ALA	3.7
53	M7	162	GLU	3.7
14	c2	126	TRP	3.7
32	e0	53	LYS	3.7
60	n4	97	LYS	3.7
80	m2	91	SER	3.6
1	6	1695	G	3.6

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Mol	Chain	Res	Type	RSRZ
13	c1	5	LEU	3.6
5	S3	25	PHE	3.6
35	SM	89	ARG	3.6
60	N4	83	THR	3.6
13	C1	145	ALA	3.6
1	2	1698	G	3.6
58	N2	89	LEU	3.6
43	L6	130	ILE	3.6
14	C2	41	LEU	3.5
9	S7	98	ILE	3.5
83	f	47	SER	3.5
3	S1	55	LYS	3.5
33	e1	78	LYS	3.5
41	L4	65	TRP	3.5
19	c7	96	SER	3.5
4	s2	92	ALA	3.5
34	sR	32	LEU	3.5
33	E1	145	HIS	3.5
28	D6	83	ILE	3.5
14	c2	123	VAL	3.5
1	2	1692	G	3.5
1	2	1695	G	3.5
33	e1	79	LYS	3.4
3	S1	110	LEU	3.4
8	S6	75	LEU	3.4
35	sM	83	LYS	3.4
1	6	678	A	3.4
32	e0	51	ASN	3.4
60	n4	83	THR	3.4
82	p2	30	THR	3.4
70	O4	21	LYS	3.4
26	D4	70	VAL	3.4
18	C6	130	GLY	3.4
83	f	142	MET	3.4
34	SR	44	SER	3.4
19	C7	110	VAL	3.4
83	f	71	GLU	3.4
81	p0	107	ALA	3.4
27	D5	41	ILE	3.4
3	S1	92	GLN	3.4
1	2	1709	C	3.3
21	c9	40	SER	3.3

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Mol	Chain	Res	Type	RSRZ
36	1	3079	U	3.3
36	5	250	U	3.3
18	c6	124	PRO	3.3
26	D4	31	ASN	3.3
60	N4	87	LEU	3.3
2	S0	99	ALA	3.3
28	D6	16	GLY	3.3
41	L4	74	ILE	3.3
1	6	663	U	3.3
12	C0	4	PRO	3.3
28	D6	20	PRO	3.3
3	S1	95	ASN	3.3
14	C2	103	LEU	3.3
70	o4	57	LEU	3.3
82	p1	37	VAL	3.3
10	s8	61	GLU	3.3
10	s8	40	ALA	3.3
60	n4	85	ALA	3.3
80	m2	157	ASP	3.3
1	2	1693	A	3.3
13	c1	116	ARG	3.3
83	f	43	ASP	3.3
82	p1	12	LEU	3.3
4	S2	144	TRP	3.3
31	d9	7	TRP	3.3
36	1	1563	C	3.3
73	o7	88	ALA	3.3
18	c6	142	TYR	3.2
34	SR	33	LEU	3.2
19	c7	25	THR	3.2
27	d5	62	VAL	3.2
35	SM	87	THR	3.2
8	S6	91	GLU	3.2
60	n4	84	GLY	3.2
80	m2	57	GLU	3.2
83	f	87	ARG	3.2
36	5	2505	U	3.2
21	C9	85	SER	3.2
21	c9	41	SER	3.2
13	C1	147	ALA	3.2
35	sM	35	ALA	3.2
6	S4	44	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
16	C4	102	LEU	3.2
8	S6	179	VAL	3.2
43	L6	135	VAL	3.2
1	2	261	U	3.2
18	c6	139	GLN	3.2
34	SR	102	ARG	3.2
1	2	1337	A	3.2
34	SR	289	ALA	3.2
70	o4	38	LEU	3.2
4	S2	63	VAL	3.2
41	l4	26	PHE	3.2
8	S6	101	ILE	3.2
42	l5	235	SER	3.2
13	C1	146	ALA	3.2
17	c5	133	ALA	3.2
70	O4	2	ALA	3.2
79	Q3	92	ALA	3.2
60	N4	89	LEU	3.1
55	M9	181	ARG	3.1
7	s5	187	ILE	3.1
83	f	46	THR	3.1
53	M7	157	VAL	3.1
34	sR	244	ALA	3.1
12	c0	98	THR	3.1
20	C8	2	SER	3.1
1	2	1696	G	3.1
36	5	2503	G	3.1
11	S9	2	PRO	3.1
16	C4	83	ILE	3.1
18	c6	132	LYS	3.1
33	e1	82	LYS	3.1
16	C4	33	LEU	3.1
36	1	3170	A	3.1
1	6	659	C	3.1
8	S6	73	ILE	3.1
14	c2	71	ILE	3.1
36	1	2507	C	3.0
36	1	1349	G	3.0
11	s9	127	VAL	3.0
36	5	620	U	3.0
83	f	68	LYS	3.0
10	s8	58	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
14	c2	59	LEU	3.0
83	f	22	GLN	3.0
83	f	60	VAL	3.0
57	n1	79	MET	3.0
12	c0	64	TYR	3.0
60	n4	68	ALA	3.0
28	D6	14	GLY	3.0
83	f	85	VAL	3.0
49	m3	145	PHE	3.0
12	c0	23	ALA	3.0
15	c3	40	TYR	3.0
33	e1	80	ARG	3.0
60	n4	122	ALA	3.0
5	s3	151	LYS	3.0
83	f	35	LYS	3.0
47	m0	124	GLY	3.0
45	L8	58	VAL	3.0
34	SR	115	ILE	3.0
33	E1	150	VAL	3.0
36	1	2506	U	3.0
8	s6	88	ARG	2.9
21	C9	92	LYS	2.9
74	O8	2	ALA	2.9
10	s8	45	SER	2.9
1	2	1708	U	2.9
1	6	662	U	2.9
45	l8	25	PRO	2.9
28	d6	86	VAL	2.9
54	M8	167	SER	2.9
19	c7	95	ARG	2.9
45	l8	238	LEU	2.9
46	l9	191	LEU	2.9
80	m2	155	ARG	2.9
65	n9	25	LYS	2.9
43	l6	129	GLU	2.9
20	c8	22	VAL	2.9
32	e0	62	VAL	2.9
10	s8	176	SER	2.9
14	C2	117	GLY	2.9
30	D8	53	ILE	2.9
82	p1	16	ASP	2.9
22	d0	67	THR	2.9

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Mol	Chain	Res	Type	RSRZ
1	6	660	G	2.9
8	s6	80	ASN	2.9
35	SM	167	PRO	2.9
7	S5	70	VAL	2.9
1	6	679	U	2.9
8	S6	68	LEU	2.9
9	S7	91	ILE	2.9
16	C4	34	SER	2.9
20	c8	17	LEU	2.9
47	m0	112	GLN	2.9
16	C4	119	THR	2.9
11	S9	148	VAL	2.9
70	o4	16	ARG	2.9
27	d5	50	ILE	2.9
83	f	18	THR	2.8
12	c0	21	VAL	2.8
39	l2	164	GLY	2.8
12	c0	65	TYR	2.8
16	C4	40	ALA	2.8
4	s2	208	GLU	2.8
63	n7	96	VAL	2.8
26	d4	102	LYS	2.8
3	s1	110	LEU	2.8
23	D1	23	ILE	2.8
18	c6	141	SER	2.8
3	S1	66	VAL	2.8
5	S3	75	LYS	2.8
1	2	1710	U	2.8
15	C3	53	LEU	2.8
3	S1	53	GLY	2.8
15	c3	16	ILE	2.8
16	C4	76	ILE	2.8
60	N4	90	ILE	2.8
8	s6	169	TYR	2.8
29	D7	51	GLN	2.8
34	SR	83	ALA	2.8
35	SM	90	ALA	2.8
70	o4	58	ARG	2.8
14	C2	82	PRO	2.8
35	SM	106	VAL	2.8
7	S5	91	GLU	2.8
34	SR	141	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
60	N4	75	THR	2.8
36	1	2872	A	2.8
34	sR	24	ALA	2.8
28	D6	32	LYS	2.8
83	f	56	LYS	2.8
10	s8	46	VAL	2.8
21	c9	22	LEU	2.8
83	f	45	SER	2.8
11	s9	140	ILE	2.8
33	e1	85	TYR	2.7
79	q3	2	ALA	2.7
83	f	42	VAL	2.7
83	f	84	VAL	2.7
2	S0	98	ILE	2.7
9	S7	33	GLU	2.7
34	SR	186	PHE	2.7
48	M1	96	PHE	2.7
64	n8	16	SER	2.7
13	C1	3	THR	2.7
33	e1	87	THR	2.7
45	L8	158	ASP	2.7
19	C7	60	ARG	2.7
33	e1	83	LYS	2.7
41	l4	62	ALA	2.7
56	N0	2	ALA	2.7
82	p2	11	ALA	2.7
16	C4	28	VAL	2.7
3	S1	184	LEU	2.7
14	C2	59	LEU	2.7
28	D6	44	ILE	2.7
62	N6	127	GLU	2.7
35	sM	82	THR	2.7
83	f	15	SER	2.7
14	c2	101	ALA	2.7
19	c7	97	ASN	2.7
20	c8	146	ALA	2.7
24	D2	92	ASN	2.7
5	S3	24	PHE	2.7
11	s9	104	PHE	2.7
34	sR	136	ILE	2.7
3	S1	46	THR	2.7
33	e1	86	THR	2.7

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Mol	Chain	Res	Type	RSRZ
7	S5	96	SER	2.7
69	O3	56	SER	2.7
1	6	1491	U	2.7
36	1	1351	U	2.7
34	sR	303	ALA	2.7
64	n8	149	ALA	2.7
4	S2	121	VAL	2.7
42	L5	277	LEU	2.7
47	m0	103	LEU	2.7
13	C1	152	GLN	2.7
66	O0	12	GLN	2.7
51	m5	147	ARG	2.7
34	SR	137	LYS	2.7
45	l8	121	SER	2.7
71	o5	120	ALA	2.7
83	f	25	ALA	2.7
29	d7	33	LEU	2.7
61	n5	24	LEU	2.7
82	p2	29	LEU	2.7
83	f	33	VAL	2.7
45	L8	25	PRO	2.6
3	S1	176	VAL	2.6
5	s3	3	ALA	2.6
34	SR	27	ALA	2.6
60	n4	86	SER	2.6
25	D3	48	HIS	2.6
1	2	1697	G	2.6
34	SR	43	ILE	2.6
4	s2	84	LYS	2.6
34	SR	259	GLY	2.6
22	D0	27	THR	2.6
31	D9	6	VAL	2.6
33	e1	84	VAL	2.6
47	M0	221	ALA	2.6
82	p2	9	TYR	2.6
16	C4	14	PHE	2.6
48	M1	104	PHE	2.6
80	m2	110	ASN	2.6
12	c0	84	GLU	2.6
26	d4	18	LEU	2.6
81	p0	93	LEU	2.6
14	C2	104	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
68	o2	127	ALA	2.6
1	2	506	A	2.6
11	s9	152	SER	2.6
81	p0	211	SER	2.6
82	p1	23	SER	2.6
56	N0	4	PHE	2.6
35	sM	124	GLN	2.6
62	N6	120	GLN	2.6
3	S1	98	THR	2.6
58	n2	14	THR	2.6
70	o4	39	ALA	2.6
22	d0	77	LYS	2.6
80	m2	127	ARG	2.6
83	f	86	LYS	2.6
35	SM	85	SER	2.6
7	S5	75	GLY	2.6
17	c5	129	GLY	2.6
20	C8	124	GLY	2.6
32	e0	49	LEU	2.6
2	S0	189	VAL	2.6
26	D4	5	VAL	2.6
36	1	1802	C	2.6
41	l4	71	VAL	2.6
34	SR	46	LYS	2.6
83	f	61	ALA	2.6
17	C5	84	ILE	2.5
72	o6	93	ILE	2.5
5	s3	150	MET	2.5
52	M6	80	PHE	2.5
33	e1	145	HIS	2.5
54	M8	156	GLY	2.5
12	c0	25	LYS	2.5
1	6	754	A	2.5
1	6	1694	A	2.5
13	c1	144	ALA	2.5
36	5	1350	A	2.5
3	s1	84	ILE	2.5
4	s2	90	THR	2.5
9	s7	91	ILE	2.5
34	SR	136	ILE	2.5
83	f	148	ILE	2.5
1	6	658	C	2.5

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Mol	Chain	Res	Type	RSRZ
2	S0	7	PHE	2.5
28	D6	62	TYR	2.5
5	s3	176	LEU	2.5
18	c6	44	LEU	2.5
40	l3	178	LEU	2.5
83	f	76	SER	2.5
25	d3	60	GLU	2.5
52	M6	40	GLU	2.5
4	s2	85	PRO	2.5
32	e0	40	TYR	2.5
20	C8	142	GLY	2.5
70	o4	19	LYS	2.5
31	d9	20	GLN	2.5
14	C2	115	VAL	2.5
16	C4	16	VAL	2.5
47	M0	218	ALA	2.5
13	C1	4	GLU	2.5
53	M7	182	ILE	2.5
76	q0	77	ILE	2.5
2	S0	97	PRO	2.5
5	s3	148	LYS	2.5
14	c2	62	LEU	2.5
30	d8	9	LEU	2.5
42	L5	146	LEU	2.5
36	1	1103	A	2.5
14	c2	75	VAL	2.5
34	SR	78	ALA	2.5
39	l2	59	ALA	2.5
45	L8	66	SER	2.5
36	1	1216	C	2.5
33	E1	86	THR	2.5
36	1	3175	U	2.5
60	N4	64	THR	2.5
74	O8	6	THR	2.5
60	N4	77	LYS	2.5
11	s9	76	LEU	2.5
14	C2	52	LEU	2.5
18	C6	35	PRO	2.5
30	D8	16	LEU	2.5
33	E1	103	LEU	2.5
32	e0	52	GLY	2.5
70	o4	48	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
14	C2	37	VAL	2.5
34	SR	6	VAL	2.5
34	SR	58	VAL	2.5
35	sM	119	ALA	2.4
45	l8	196	ALA	2.4
83	f	41	ILE	2.4
3	S1	103	MET	2.4
2	S0	203	PHE	2.4
70	O4	7	PHE	2.4
4	s2	88	LYS	2.4
25	d3	110	LYS	2.4
35	SM	11	ASP	2.4
5	S3	21	LEU	2.4
42	l5	236	LEU	2.4
66	o0	104	LEU	2.4
80	m2	101	PRO	2.4
6	S4	167	GLY	2.4
6	s4	208	VAL	2.4
13	c1	145	ALA	2.4
40	l3	179	ALA	2.4
17	c5	136	SER	2.4
29	d7	57	GLU	2.4
58	N2	28	PHE	2.4
83	f	23	CYS	2.4
25	D3	3	LYS	2.4
11	s9	80	LEU	2.4
35	SM	117	LEU	2.4
19	C7	6	THR	2.4
34	SR	45	TRP	2.4
12	c0	97	PRO	2.4
6	s4	183	VAL	2.4
12	C0	66	TYR	2.4
15	C3	2	GLY	2.4
25	d3	2	GLY	2.4
30	D8	7	VAL	2.4
36	1	1581	C	2.4
74	o8	2	ALA	2.4
81	p0	106	ALA	2.4
12	C0	93	GLN	2.4
36	1	2954	U	2.4
51	M5	15	GLN	2.4
83	f	44	MET	2.4

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Mol	Chain	Res	Type	RSRZ
31	D9	11	PRO	2.4
33	E1	87	THR	2.4
3	S1	212	VAL	2.4
21	C9	37	VAL	2.4
83	f	72	ASP	2.4
20	c8	135	GLY	2.4
80	m2	149	ALA	2.4
83	f	11	ALA	2.4
1	2	1410	A	2.4
1	6	755	A	2.4
11	s9	48	GLN	2.4
18	C6	123	ARG	2.4
27	D5	97	LYS	2.4
27	d5	97	LYS	2.4
8	s6	166	GLU	2.4
14	c2	32	LEU	2.4
20	c8	3	LEU	2.4
40	L3	387	LEU	2.4
8	S6	67	VAL	2.4
20	c8	140	THR	2.4
30	d8	7	VAL	2.4
2	s0	164	ASN	2.4
52	m6	183	ALA	2.4
83	f	17	ALA	2.4
4	s2	87	GLN	2.4
8	s6	176	GLN	2.4
80	m2	74	GLN	2.4
3	S1	61	LEU	2.4
83	f	81	GLU	2.4
5	S3	181	VAL	2.4
8	S6	86	PRO	2.4
36	5	1567	U	2.4
1	2	1686	C	2.3
3	S1	60	ALA	2.3
28	D6	63	ALA	2.3
39	L2	189	TYR	2.3
40	l3	146	ARG	2.3
3	S1	54	LEU	2.3
4	S2	134	LEU	2.3
30	D8	9	LEU	2.3
47	M0	112	GLN	2.3
83	f	150	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
21	C9	41	SER	2.3
29	D7	58	SER	2.3
34	sR	313	TRP	2.3
48	m1	8	PRO	2.3
36	1	1217	A	2.3
36	5	1580	A	2.3
36	5	2404	A	2.3
81	p0	215	SER	2.3
8	S6	24	ILE	2.3
12	c0	67	THR	2.3
77	Q1	17	ARG	2.3
47	M0	219	ALA	2.3
81	p0	216	ALA	2.3
82	p1	15	ALA	2.3
1	6	1285	U	2.3
36	5	1351	U	2.3
62	N6	7	ASP	2.3
83	f	124	LEU	2.3
39	L2	253	GLN	2.3
70	O4	52	GLN	2.3
21	C9	104	VAL	2.3
24	D2	121	VAL	2.3
45	L8	116	VAL	2.3
52	m6	3	VAL	2.3
2	s0	173	ILE	2.3
47	m0	166	ILE	2.3
18	c6	79	TYR	2.3
6	S4	180	LEU	2.3
34	SR	42	LEU	2.3
60	n4	109	LEU	2.3
12	c0	27	PHE	2.3
36	5	3167	A	2.3
36	1	1570	U	2.3
36	1	2514	U	2.3
60	N4	66	GLU	2.3
1	2	1703	C	2.3
4	s2	64	LYS	2.3
18	C6	39	VAL	2.3
18	c6	90	VAL	2.3
36	5	1582	C	2.3
36	5	2098	C	2.3
55	M9	52	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
16	C4	18	ARG	2.3
21	c9	24	ARG	2.3
6	S4	29	PRO	2.3
7	S5	130	ILE	2.3
8	S6	226	ILE	2.3
34	sR	27	ALA	2.3
19	C7	125	SER	2.3
31	D9	9	SER	2.3
60	n4	72	SER	2.3
81	p0	219	THR	2.3
63	N7	42	LEU	2.3
2	S0	110	TYR	2.3
28	D6	12	LYS	2.3
23	D1	10	GLU	2.3
34	sR	167	VAL	2.3
36	5	2401	A	2.3
3	S1	84	ILE	2.3
14	c2	102	GLY	2.3
19	c7	90	ALA	2.3
29	D7	50	ALA	2.3
60	n4	121	ALA	2.3
68	O2	127	ALA	2.3
3	s1	217	LEU	2.3
7	s5	174	LEU	2.3
9	S7	41	LEU	2.3
34	sR	72	THR	2.3
41	L4	324	LEU	2.3
42	l5	18	THR	2.3
55	M9	184	LEU	2.3
82	p2	28	THR	2.3
55	M9	85	ARG	2.3
36	5	1576	G	2.2
36	5	3276	G	2.2
8	S6	99	GLY	2.2
27	d5	99	ALA	2.2
40	L3	245	GLY	2.2
80	m2	60	ALA	2.2
1	2	1704	U	2.2
1	6	261	U	2.2
1	6	1719	A	2.2
3	S1	181	LEU	2.2
14	C2	97	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
81	p0	70	LEU	2.2
34	SR	12	THR	2.2
34	SR	74	THR	2.2
81	p0	88	PHE	2.2
2	s0	2	SER	2.2
8	S6	96	SER	2.2
33	e1	105	TYR	2.2
58	N2	33	TYR	2.2
1	2	1711	C	2.2
12	C0	39	ASN	2.2
14	c2	116	VAL	2.2
17	C5	76	VAL	2.2
3	S1	89	ASP	2.2
42	l5	263	GLU	2.2
55	M9	116	ASP	2.2
55	M9	182	ASP	2.2
60	n4	66	GLU	2.2
81	p0	20	GLU	2.2
8	S6	100	ALA	2.2
18	c6	24	ALA	2.2
26	D4	125	LEU	2.2
41	l4	242	ALA	2.2
50	m4	88	ALA	2.2
54	M8	166	LEU	2.2
61	n5	23	ALA	2.2
80	m2	32	GLY	2.2
6	S4	22	LYS	2.2
10	s8	44	HIS	2.2
18	c6	115	THR	2.2
61	n5	28	THR	2.2
1	2	715	U	2.2
36	1	3156	U	2.2
36	5	1764	U	2.2
70	o4	41	ARG	2.2
13	C1	2	SER	2.2
33	E1	146	SER	2.2
36	1	2207	A	2.2
36	1	2404	A	2.2
80	m2	133	SER	2.2
28	D6	86	VAL	2.2
58	N2	27	VAL	2.2
21	C9	116	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
55	M9	72	GLU	2.2
36	1	131	C	2.2
14	C2	101	ALA	2.2
80	m2	23	LEU	2.2
17	c5	9	LYS	2.2
26	d4	99	LYS	2.2
60	n4	69	LYS	2.2
10	S8	21	PHE	2.2
41	l4	65	TRP	2.2
82	p2	45	PHE	2.2
53	M7	167	ARG	2.2
18	C6	21	HIS	2.2
14	C2	116	VAL	2.2
55	M9	51	VAL	2.2
11	S9	87	SER	2.2
1	2	1385	G	2.2
12	c0	94	GLU	2.2
14	c2	133	LEU	2.2
36	1	1605	A	2.2
36	1	1800	A	2.2
45	L8	202	GLU	2.2
5	S3	149	ALA	2.2
10	s8	177	GLY	2.2
11	S9	18	PRO	2.2
14	c2	127	GLY	2.2
16	C4	98	GLY	2.2
32	e0	32	GLY	2.2
81	p0	69	ASP	2.2
26	d4	72	PHE	2.2
31	D9	52	PHE	2.2
46	L9	31	ARG	2.2
22	d0	78	THR	2.2
17	C5	126	VAL	2.2
14	c2	119	SER	2.2
18	C6	36	ILE	2.2
39	L2	150	LEU	2.2
2	s0	136	ALA	2.2
64	n8	120	ASN	2.2
82	p2	4	GLU	2.2
2	s0	82	GLY	2.2
65	N9	59	LYS	2.2
38	4	82	U	2.2

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Mol	Chain	Res	Type	RSRZ
2	S0	107	PHE	2.2
81	p0	206	ASP	2.2
1	6	793	A	2.2
1	6	1199	G	2.2
82	p2	41	TRP	2.2
20	c8	20	THR	2.1
29	d7	67	THR	2.1
35	SM	166	VAL	2.1
47	M0	149	VAL	2.1
71	O5	46	THR	2.1
8	s6	208	TYR	2.1
18	C6	96	TYR	2.1
1	2	716	C	2.1
36	1	1556	C	2.1
9	s7	58	LEU	2.1
14	c2	97	LEU	2.1
34	SR	81	LEU	2.1
45	l8	65	LEU	2.1
35	SM	84	LYS	2.1
46	L9	14	GLU	2.1
47	m0	68	ALA	2.1
83	f	123	SER	2.1
26	D4	30	PRO	2.1
26	D4	67	GLY	2.1
83	f	67	GLY	2.1
1	6	1473	U	2.1
36	5	2504	U	2.1
36	5	2506	U	2.1
12	C0	22	VAL	2.1
40	l3	106	TRP	2.1
8	S6	170	THR	2.1
1	6	1469	A	2.1
11	s9	19	TYR	2.1
23	D1	34	ILE	2.1
4	S2	64	LYS	2.1
6	S4	23	LEU	2.1
13	C1	148	LYS	2.1
44	l7	202	LEU	2.1
47	M0	36	LEU	2.1
34	SR	121	MET	2.1
83	f	80	MET	2.1
5	S3	171	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
18	C6	66	ARG	2.1
45	L8	154	ALA	2.1
49	m3	195	ALA	2.1
51	m5	26	ARG	2.1
70	o4	2	ALA	2.1
79	q3	92	ALA	2.1
2	s0	97	PRO	2.1
11	s9	20	GLU	2.1
20	c8	124	GLY	2.1
57	n1	86	GLU	2.1
80	m2	46	PRO	2.1
82	p1	22	SER	2.1
44	L7	231	ASN	2.1
14	c2	63	VAL	2.1
6	S4	52	LEU	2.1
8	s6	78	THR	2.1
8	s6	163	THR	2.1
9	s7	153	LEU	2.1
11	S9	29	LYS	2.1
34	SR	161	LYS	2.1
34	sR	168	THR	2.1
40	l3	137	TYR	2.1
47	M0	152	LEU	2.1
82	p2	25	LYS	2.1
22	D0	84	MET	2.1
42	L5	273	ARG	2.1
56	n0	1	MET	2.1
70	o4	31	ARG	2.1
80	m2	28	ARG	2.1
75	o9	11	GLN	2.1
38	8	80	A	2.1
50	m4	92	GLU	2.1
60	N4	81	PRO	2.1
4	S2	66	PHE	2.1
28	D6	76	SER	2.1
83	f	74	SER	2.1
7	s5	44	ASN	2.1
5	s3	85	VAL	2.1
3	S1	32	ILE	2.1
7	S5	199	ILE	2.1
28	D6	72	HIS	2.1
50	m4	101	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
34	SR	34	LEU	2.1
42	l5	293	LEU	2.1
49	m3	147	ILE	2.1
78	q2	90	HIS	2.1
12	c0	95	ARG	2.1
22	d0	81	THR	2.1
11	s9	147	MET	2.1
7	S5	154	ALA	2.1
7	S5	155	ALA	2.1
28	D6	35	ALA	2.1
56	n0	2	ALA	2.1
58	n2	46	ALA	2.1
36	5	124	U	2.1
9	S7	66	SER	2.1
2	S0	50	VAL	2.1
22	d0	100	VAL	2.1
1	6	1756[A]	A	2.1
18	C6	132	LYS	2.1
26	D4	128	LYS	2.1
36	5	1797	A	2.1
18	c6	118	ILE	2.1
49	m3	54	LEU	2.1
53	M7	176	ILE	2.1
31	d9	27	HIS	2.1
33	E1	148	TYR	2.1
40	L3	49	TYR	2.1
41	L4	60	THR	2.1
1	2	658	C	2.1
1	6	1720	G	2.1
3	s1	141	ALA	2.1
9	S7	12	ALA	2.1
40	l3	362	ALA	2.1
82	p2	46	ALA	2.1
17	c5	55	GLY	2.1
19	C7	62	GLN	2.1
21	C9	87	GLY	2.1
42	l5	200	PHE	2.1
13	c1	32	LYS	2.0
14	c2	105	LYS	2.0
17	c5	126	VAL	2.0
28	D6	24	VAL	2.0
80	m2	156	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
83	f	40	LYS	2.0
7	s5	90	ILE	2.0
45	L8	67	ILE	2.0
66	O0	100	ILE	2.0
83	f	26	LEU	2.0
4	s2	96	THR	2.0
6	S4	110	ALA	2.0
27	D5	67	ASP	2.0
29	D7	13	ALA	2.0
32	E0	48	THR	2.0
36	1	621	A	2.0
40	L3	31	ALA	2.0
53	M7	156	ALA	2.0
53	M7	184	ALA	2.0
4	S2	57	PHE	2.0
8	S6	123	GLY	2.0
8	S6	176	GLN	2.0
34	sR	298	GLY	2.0
51	M5	2	GLY	2.0
83	f	75	PRO	2.0
7	s5	31	GLU	2.0
1	2	1705	C	2.0
33	e1	81	LYS	2.0
8	s6	162	VAL	2.0
63	N7	26	VAL	2.0
4	S2	207	LEU	2.0
8	S6	76	LEU	2.0
60	n4	87	LEU	2.0
82	p1	14	LEU	2.0
14	C2	136	ILE	2.0
21	c9	97	SER	2.0
35	SM	25	ILE	2.0
1	2	1362	U	2.0
19	C7	123	ASN	2.0
57	N1	77	ASN	2.0
3	S1	101	HIS	2.0
14	C2	42	ALA	2.0
41	L4	70	ALA	2.0
33	E1	85	TYR	2.0
34	sR	25	THR	2.0
4	S2	78	ASP	2.0
81	p0	192	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
7	S5	151	GLY	2.0
7	S5	212	LYS	2.0
19	C7	63	LYS	2.0
21	c9	25	GLN	2.0
28	d6	65	PRO	2.0
41	L4	4	PRO	2.0
83	f	48	LYS	2.0
1	2	1701	A	2.0
17	c5	137	ARG	2.0
28	D6	58	VAL	2.0
11	S9	28	LEU	2.0
15	C3	54	LEU	2.0
33	e1	117	LEU	2.0
34	SR	32	LEU	2.0
68	O2	128	LEU	2.0
22	D0	103	ILE	2.0
1	6	1709	C	2.0
36	5	1581	C	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
83	5CT	f	51	15/16	0.80	0.54	44,44,44,44	15
84	8AN	C	76	22/23	0.96	0.09	40,42,43,43	0
84	8AN	B	76	22/23	0.97	0.08	44,44,45,45	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1939	1/1	-0.07	0.35	130,130,130,130	0
85	MG	1	3405	1/1	-0.00	0.37	132,132,132,132	0
85	MG	2	1986	1/1	0.01	0.30	118,118,118,118	0
85	MG	2	1943	1/1	0.18	0.40	115,115,115,115	0
85	MG	5	3778	1/1	0.25	0.31	115,115,115,115	0
85	MG	2	1950	1/1	0.26	0.30	108,108,108,108	0
85	MG	6	1937	1/1	0.30	0.45	98,98,98,98	0
85	MG	5	3686	1/1	0.39	0.28	92,92,92,92	0
85	MG	1	3662	1/1	0.45	0.26	101,101,101,101	0
85	MG	1	3753	1/1	0.46	0.28	107,107,107,107	0
85	MG	2	1958	1/1	0.46	0.33	104,104,104,104	0
85	MG	6	1959	1/1	0.47	0.36	98,98,98,98	0
85	MG	5	3748	1/1	0.49	0.12	124,124,124,124	0
85	MG	2	1961	1/1	0.50	0.32	86,86,86,86	0
85	MG	5	3462	1/1	0.51	0.28	109,109,109,109	0
85	MG	2	1922	1/1	0.51	0.47	85,85,85,85	0
85	MG	2	1904	1/1	0.52	0.30	90,90,90,90	0
85	MG	2	1957	1/1	0.52	0.21	99,99,99,99	0
85	MG	O4	201	1/1	0.52	0.37	77,77,77,77	0
85	MG	6	1954	1/1	0.53	0.35	64,64,64,64	0
85	MG	2	1989	1/1	0.53	0.26	65,65,65,65	0
85	MG	6	1908	1/1	0.54	0.29	109,109,109,109	0
85	MG	2	1974	1/1	0.55	0.43	83,83,83,83	0
86	OHX	5	4123	7/7	0.56	0.28	76,76,76,76	5
85	MG	2	1912	1/1	0.57	0.43	88,88,88,88	0
86	OHX	6	2183	7/7	0.58	0.28	76,76,76,76	5
85	MG	5	3757	1/1	0.58	0.27	73,73,73,73	0
85	MG	2	1953	1/1	0.59	0.35	89,89,89,89	0
85	MG	1	3423	1/1	0.59	0.24	46,46,46,46	0
85	MG	2	1936	1/1	0.60	0.30	83,83,83,83	0
85	MG	5	3464	1/1	0.60	0.22	125,125,125,125	0
85	MG	6	1948	1/1	0.60	0.34	85,85,85,85	0
85	MG	6	1971	1/1	0.60	0.35	90,90,90,90	0
85	MG	6	1963	1/1	0.61	0.27	80,80,80,80	0
86	OHX	2	2145	7/7	0.61	0.19	103,103,103,103	4
85	MG	1	3635	1/1	0.62	0.45	88,88,88,88	0
85	MG	2	1955	1/1	0.62	0.36	62,62,62,62	0
85	MG	2	1924	1/1	0.62	0.30	100,100,100,100	0
85	MG	2	1945	1/1	0.62	0.24	107,107,107,107	0
85	MG	2	1969	1/1	0.63	0.36	108,108,108,108	0
85	MG	2	1941	1/1	0.63	0.32	100,100,100,100	0
85	MG	2	1967	1/1	0.63	0.15	93,93,93,93	0
85	MG	1	3560	1/1	0.63	0.48	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	1984	1/1	0.64	0.28	109,109,109,109	0
85	MG	5	3667	1/1	0.64	0.33	86,86,86,86	0
85	MG	M7	201	1/1	0.64	0.43	71,71,71,71	0
85	MG	5	3503	1/1	0.65	0.34	57,57,57,57	0
86	OHX	2	2149	7/7	0.65	0.13	137,137,137,137	6
86	OHX	6	2178	7/7	0.65	0.15	145,145,145,145	6
85	MG	2	1909	1/1	0.65	0.39	83,83,83,83	0
86	OHX	2	2104	7/7	0.65	0.22	119,119,119,119	5
85	MG	6	1974	1/1	0.66	0.42	94,94,94,94	0
85	MG	5	3474	1/1	0.66	0.29	63,63,63,63	0
85	MG	17	2200	1/1	0.67	0.18	50,50,50,50	0
85	MG	2	1927	1/1	0.67	0.33	85,85,85,85	0
85	MG	2	1964	1/1	0.67	0.39	92,92,92,92	0
86	OHX	2	2147	7/7	0.67	0.14	116,116,116,116	6
85	MG	1	3729	1/1	0.67	0.15	69,69,69,69	0
86	OHX	3	219	7/7	0.67	0.18	82,82,82,82	5
85	MG	2	1978	1/1	0.67	0.33	74,74,74,74	0
85	MG	1	3537	1/1	0.67	0.27	57,57,57,57	0
85	MG	2	1952	1/1	0.67	0.33	64,64,64,64	0
85	MG	2	1933	1/1	0.68	0.41	70,70,70,70	0
85	MG	2	1968	1/1	0.68	0.30	101,101,101,101	0
85	MG	6	1938	1/1	0.68	0.25	60,60,60,60	0
85	MG	2	1925	1/1	0.68	0.35	67,67,67,67	0
86	OHX	M0	304	7/7	0.68	0.20	101,101,101,101	6
85	MG	5	3628	1/1	0.68	0.40	92,92,92,92	0
85	MG	1	3424	1/1	0.68	0.22	59,59,59,59	0
86	OHX	2	2123	7/7	0.68	0.16	121,121,121,121	5
85	MG	3	205	1/1	0.69	0.37	68,68,68,68	0
85	MG	2	1913	1/1	0.69	0.40	79,79,79,79	0
85	MG	2	1919	1/1	0.69	0.39	62,62,62,62	0
85	MG	6	1972	1/1	0.69	0.26	81,81,81,81	0
85	MG	5	3540	1/1	0.69	0.39	62,62,62,62	0
85	MG	1	3434	1/1	0.69	0.29	62,62,62,62	0
85	MG	6	1957	1/1	0.69	0.34	94,94,94,94	0
86	OHX	2	2141	7/7	0.69	0.19	90,90,90,90	6
85	MG	2	1905	1/1	0.70	0.39	63,63,63,63	0
86	OHX	1	3871	7/7	0.70	0.34	61,61,61,61	2
86	OHX	2	2121	7/7	0.70	0.26	94,94,94,94	4
85	MG	1	3672	1/1	0.70	0.29	76,76,76,76	0
85	MG	s4	601	1/1	0.70	0.29	66,66,66,66	0
85	MG	6	1910	1/1	0.70	0.30	91,91,91,91	0
85	MG	1	3660	1/1	0.70	0.23	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	1931	1/1	0.71	0.25	92,92,92,92	0
85	MG	2	1954	1/1	0.71	0.20	105,105,105,105	0
85	MG	2	1951	1/1	0.71	0.43	71,71,71,71	0
85	MG	6	1980	1/1	0.71	0.11	76,76,76,76	0
86	OHX	1	4044	7/7	0.71	0.19	108,108,108,108	4
86	OHX	1	4106	7/7	0.71	0.13	72,72,72,72	4
85	MG	6	1960	1/1	0.71	0.23	65,65,65,65	0
86	OHX	2	2117	7/7	0.71	0.15	93,93,93,93	4
86	OHX	6	2175	7/7	0.71	0.23	100,100,100,100	6
85	MG	2	1988	1/1	0.71	0.28	88,88,88,88	0
85	MG	c9	201	1/1	0.71	0.17	83,83,83,83	0
85	MG	5	3446	1/1	0.71	0.22	64,64,64,64	0
86	OHX	5	4147	7/7	0.71	0.16	89,89,89,89	7
86	OHX	1	4013	7/7	0.72	0.35	54,54,54,54	3
85	MG	3	206	1/1	0.72	0.29	65,65,65,65	0
86	OHX	1	4093	7/7	0.72	0.17	64,64,64,64	4
85	MG	6	1986	1/1	0.72	0.40	93,93,93,93	0
85	MG	2	1973	1/1	0.72	0.33	80,80,80,80	0
85	MG	c8	202	1/1	0.72	0.39	84,84,84,84	0
86	OHX	6	2137	7/7	0.72	0.19	95,95,95,95	4
86	OHX	6	2149	7/7	0.72	0.19	95,95,95,95	6
85	MG	6	1967	1/1	0.72	0.27	76,76,76,76	0
85	MG	2	1911	1/1	0.72	0.55	77,77,77,77	0
85	MG	2	1962	1/1	0.72	0.25	88,88,88,88	0
85	MG	2	1929	1/1	0.72	0.33	83,83,83,83	0
85	MG	2	1987	1/1	0.72	0.31	104,104,104,104	0
86	OHX	5	4150	7/7	0.72	0.24	62,62,62,62	5
86	OHX	5	4165	7/7	0.72	0.32	51,51,51,51	3
85	MG	6	1987	1/1	0.73	0.34	77,77,77,77	0
85	MG	2	1901	1/1	0.73	0.30	87,87,87,87	0
86	OHX	5	4062	7/7	0.73	0.24	56,56,56,56	3
85	MG	1	3566	1/1	0.73	0.40	47,47,47,47	0
85	MG	2	1970	1/1	0.73	0.32	65,65,65,65	0
85	MG	5	3422	1/1	0.73	0.34	44,44,44,44	0
86	OHX	1	4104	7/7	0.73	0.12	73,73,73,73	6
85	MG	6	1929	1/1	0.74	0.25	49,49,49,49	0
85	MG	5	3690	1/1	0.74	0.20	75,75,75,75	0
86	OHX	5	4034	7/7	0.74	0.19	66,66,66,66	4
85	MG	5	3424	1/1	0.74	0.28	56,56,56,56	0
86	OHX	5	4086	7/7	0.74	0.20	70,70,70,70	4
85	MG	1	3472	1/1	0.74	0.27	42,42,42,42	0
85	MG	6	1916	1/1	0.74	0.24	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4067	7/7	0.74	0.16	107,107,107,107	7
85	MG	6	1962	1/1	0.74	0.15	93,93,93,93	0
86	OHX	8	228	7/7	0.74	0.19	73,73,73,73	5
85	MG	1	3700	1/1	0.75	0.23	51,51,51,51	0
85	MG	1	3607	1/1	0.75	0.33	85,85,85,85	0
86	OHX	L3	404	7/7	0.75	0.15	84,84,84,84	6
85	MG	1	3409	1/1	0.75	0.32	52,52,52,52	0
85	MG	6	1927	1/1	0.75	0.31	63,63,63,63	0
86	OHX	2	2151	7/7	0.75	0.16	112,112,112,112	7
86	OHX	2	2152	7/7	0.75	0.11	122,122,122,122	6
85	MG	3	201	1/1	0.75	0.20	80,80,80,80	0
86	OHX	1	3995	7/7	0.75	0.24	50,50,50,50	2
85	MG	2	1944	1/1	0.75	0.22	102,102,102,102	0
86	OHX	1	4021	7/7	0.75	0.22	58,58,58,58	3
86	OHX	1	4039	7/7	0.75	0.10	278,278,278,278	6
86	OHX	5	4119	7/7	0.75	0.29	52,52,52,52	3
85	MG	1	3661	1/1	0.75	0.27	51,51,51,51	0
85	MG	2	1946	1/1	0.75	0.20	108,108,108,108	0
86	OHX	1	4089	7/7	0.75	0.28	55,55,55,55	6
85	MG	2	1959	1/1	0.75	0.26	87,87,87,87	0
86	OHX	5	4172	7/7	0.75	0.26	45,45,45,45	3
85	MG	5	3680	1/1	0.75	0.24	70,70,70,70	0
86	OHX	8	229	7/7	0.75	0.14	101,101,101,101	6
86	OHX	m1	201	7/7	0.75	0.14	78,78,78,78	3
85	MG	1	3407	1/1	0.76	0.36	33,33,33,33	0
85	MG	6	1903	1/1	0.76	0.22	88,88,88,88	0
85	MG	2	1938	1/1	0.76	0.35	72,72,72,72	0
86	OHX	5	3948	7/7	0.76	0.28	49,49,49,49	2
85	MG	5	3739	1/1	0.76	0.13	109,109,109,109	0
85	MG	6	1979	1/1	0.76	0.23	101,101,101,101	0
85	MG	2	1949	1/1	0.76	0.41	86,86,86,86	0
85	MG	5	3547	1/1	0.76	0.39	53,53,53,53	0
85	MG	14	401	1/1	0.76	0.10	42,42,42,42	0
85	MG	5	3567	1/1	0.76	0.23	37,37,37,37	0
86	OHX	1	3965	7/7	0.76	0.27	56,56,56,56	3
86	OHX	1	3983	7/7	0.76	0.14	77,77,77,77	2
86	OHX	6	2131	7/7	0.76	0.18	89,89,89,89	6
85	MG	1	3714	1/1	0.76	0.12	46,46,46,46	0
85	MG	1	3576	1/1	0.76	0.36	46,46,46,46	0
86	OHX	8	230	7/7	0.76	0.20	68,68,68,68	3
86	OHX	19	201	7/7	0.76	0.17	61,61,61,61	2
86	OHX	6	2169	7/7	0.76	0.22	89,89,89,89	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3674	1/1	0.77	0.11	65,65,65,65	0
85	MG	5	3507	1/1	0.77	0.34	38,38,38,38	0
85	MG	5	3685	1/1	0.77	0.28	48,48,48,48	0
85	MG	1	3487	1/1	0.77	0.27	49,49,49,49	0
86	OHX	5	4083	7/7	0.77	0.31	53,53,53,53	3
86	OHX	1	4108	7/7	0.77	0.19	59,59,59,59	5
86	OHX	2	2120	7/7	0.77	0.18	87,87,87,87	3
85	MG	1	3517	1/1	0.77	0.36	46,46,46,46	0
85	MG	5	3712	1/1	0.77	0.21	67,67,67,67	0
86	OHX	6	2114	7/7	0.77	0.20	66,66,66,66	3
85	MG	1	3447	1/1	0.77	0.27	51,51,51,51	0
86	OHX	6	2133	7/7	0.77	0.15	125,125,125,125	6
86	OHX	1	4036	7/7	0.77	0.15	83,83,83,83	6
85	MG	5	3571	1/1	0.77	0.34	34,34,34,34	0
85	MG	6	1947	1/1	0.77	0.30	50,50,50,50	0
85	MG	6	2011	1/1	0.77	0.27	48,48,48,48	0
86	OHX	1	4070	7/7	0.77	0.12	111,111,111,111	6
85	MG	2	1932	1/1	0.78	0.41	64,64,64,64	0
86	OHX	1	3928	7/7	0.78	0.23	49,49,49,49	3
85	MG	5	3684	1/1	0.78	0.11	62,62,62,62	0
85	MG	2	1981	1/1	0.78	0.22	79,79,79,79	0
86	OHX	3	217	7/7	0.78	0.22	78,78,78,78	4
85	MG	5	3518	1/1	0.78	0.39	38,38,38,38	0
85	MG	1	3464	1/1	0.78	0.31	38,38,38,38	0
85	MG	2	1985	1/1	0.78	0.37	86,86,86,86	0
86	OHX	5	4139	7/7	0.78	0.12	108,108,108,108	5
86	OHX	N8	204	7/7	0.78	0.15	90,90,90,90	7
85	MG	5	3722	1/1	0.78	0.30	41,41,41,41	0
85	MG	2	1965	1/1	0.78	0.39	76,76,76,76	0
86	OHX	5	4169	7/7	0.78	0.16	81,81,81,81	7
85	MG	6	1961	1/1	0.78	0.32	95,95,95,95	0
85	MG	6	1909	1/1	0.78	0.26	53,53,53,53	0
85	MG	6	1943	1/1	0.78	0.41	70,70,70,70	0
86	OHX	1	4075	7/7	0.78	0.18	75,75,75,75	5
86	OHX	1	4079	7/7	0.78	0.13	108,108,108,108	6
85	MG	1	3586	1/1	0.78	0.39	45,45,45,45	0
86	OHX	2	2083	7/7	0.79	0.17	87,87,87,87	2
86	OHX	2	2103	7/7	0.79	0.19	118,118,118,118	4
85	MG	2	1937	1/1	0.79	0.22	80,80,80,80	0
85	MG	6	1913	1/1	0.79	0.30	79,79,79,79	0
85	MG	1	3417	1/1	0.79	0.40	78,78,78,78	0
85	MG	6	1919	1/1	0.79	0.35	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4073	7/7	0.79	0.14	71,71,71,71	5
85	MG	1	3739	1/1	0.79	0.25	72,72,72,72	0
85	MG	6	1928	1/1	0.79	0.15	57,57,57,57	0
86	OHX	5	4078	7/7	0.79	0.23	68,68,68,68	3
86	OHX	2	2142	7/7	0.79	0.14	132,132,132,132	7
85	MG	2	1907	1/1	0.79	0.40	62,62,62,62	0
86	OHX	1	4096	7/7	0.79	0.18	80,80,80,80	4
85	MG	6	1906	1/1	0.79	0.26	76,76,76,76	0
85	MG	6	1988	1/1	0.79	0.29	80,80,80,80	0
86	OHX	5	4143	7/7	0.79	0.23	50,50,50,50	4
86	OHX	2	2150	7/7	0.79	0.11	151,151,151,151	7
86	OHX	1	4111	7/7	0.79	0.11	104,104,104,104	7
86	OHX	5	4153	7/7	0.79	0.27	35,35,35,35	4
85	MG	5	3531	1/1	0.79	0.27	55,55,55,55	0
86	OHX	5	4166	7/7	0.79	0.25	49,49,49,49	4
85	MG	6	1996	1/1	0.79	0.23	70,70,70,70	0
85	MG	6	1932	1/1	0.79	0.12	72,72,72,72	0
85	MG	1	3538	1/1	0.79	0.40	39,39,39,39	0
85	MG	8	205	1/1	0.79	0.14	43,43,43,43	0
85	MG	8	210	1/1	0.79	0.09	48,48,48,48	0
85	MG	6	1964	1/1	0.79	0.20	82,82,82,82	0
85	MG	2	1966	1/1	0.79	0.26	74,74,74,74	0
87	ZN	d7	101	1/1	0.79	0.17	147,147,147,147	0
86	OHX	s1	302	7/7	0.80	0.17	99,99,99,99	6
85	MG	1	3401	1/1	0.80	0.32	43,43,43,43	0
85	MG	4	205	1/1	0.80	0.25	58,58,58,58	0
85	MG	1	3694	1/1	0.80	0.19	46,46,46,46	0
85	MG	1	3595	1/1	0.80	0.42	78,78,78,78	0
85	MG	5	3548	1/1	0.80	0.30	25,25,25,25	0
86	OHX	1	4107	7/7	0.80	0.14	91,91,91,91	6
85	MG	6	1901	1/1	0.80	0.41	52,52,52,52	0
85	MG	1	3701	1/1	0.80	0.17	52,52,52,52	0
85	MG	5	3591	1/1	0.80	0.31	42,42,42,42	0
85	MG	2	1928	1/1	0.80	0.41	71,71,71,71	0
85	MG	1	3551	1/1	0.80	0.22	38,38,38,38	0
85	MG	1	3507	1/1	0.80	0.38	30,30,30,30	0
85	MG	6	1946	1/1	0.80	0.31	53,53,53,53	0
86	OHX	5	4159	7/7	0.80	0.26	48,48,48,48	4
86	OHX	1	4032	7/7	0.80	0.20	52,52,52,52	3
85	MG	1	3415	1/1	0.80	0.28	43,43,43,43	0
85	MG	1	3533	1/1	0.80	0.25	49,49,49,49	0
85	MG	6	1981	1/1	0.80	0.35	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2135	7/7	0.80	0.10	188,188,188,188	6
85	MG	5	3481	1/1	0.80	0.37	76,76,76,76	0
85	MG	6	1915	1/1	0.80	0.34	75,75,75,75	0
86	OHX	6	2177	7/7	0.80	0.11	141,141,141,141	7
86	OHX	2	2143	7/7	0.80	0.22	84,84,84,84	5
85	MG	1	3669	1/1	0.80	0.23	59,59,59,59	0
85	MG	5	3715	1/1	0.81	0.33	62,62,62,62	0
85	MG	6	1990	1/1	0.81	0.30	79,79,79,79	0
85	MG	6	1992	1/1	0.81	0.26	61,61,61,61	0
85	MG	2	1916	1/1	0.81	0.33	63,63,63,63	0
86	OHX	5	4054	7/7	0.81	0.16	50,50,50,50	2
85	MG	2	1914	1/1	0.81	0.33	83,83,83,83	0
86	OHX	1	4094	7/7	0.81	0.16	77,77,77,77	4
85	MG	1	3473	1/1	0.81	0.26	56,56,56,56	0
85	MG	1	3760	1/1	0.81	0.15	62,62,62,62	0
86	OHX	5	4091	7/7	0.81	0.14	45,45,45,45	2
86	OHX	5	4108	7/7	0.81	0.24	66,66,66,66	3
85	MG	6	1940	1/1	0.81	0.42	36,36,36,36	0
86	OHX	S6	301	7/7	0.81	0.15	117,117,117,117	7
86	OHX	1	3867	7/7	0.81	0.24	51,51,51,51	4
85	MG	2	1920	1/1	0.81	0.34	76,76,76,76	0
85	MG	5	3600	1/1	0.81	0.12	37,37,37,37	0
86	OHX	5	4149	7/7	0.81	0.09	145,145,145,145	7
85	MG	1	3544	1/1	0.81	0.20	55,55,55,55	0
85	MG	1	3674	1/1	0.81	0.26	68,68,68,68	0
85	MG	2	1960	1/1	0.81	0.19	76,76,76,76	0
86	OHX	2	2112	7/7	0.81	0.16	121,121,121,121	6
85	MG	6	1918	1/1	0.81	0.35	41,41,41,41	0
85	MG	5	3469	1/1	0.81	0.14	38,38,38,38	1
85	MG	1	3609	1/1	0.81	0.22	44,44,44,44	0
85	MG	M9	201	1/1	0.81	0.20	75,75,75,75	0
85	MG	1	3557	1/1	0.81	0.39	55,55,55,55	0
86	OHX	1	4061	7/7	0.81	0.17	72,72,72,72	4
86	OHX	2	2137	7/7	0.81	0.10	219,219,219,219	7
86	OHX	1	4069	7/7	0.81	0.21	58,58,58,58	5
85	MG	1	3652	1/1	0.81	0.18	48,48,48,48	0
86	OHX	5	4061	7/7	0.82	0.21	55,55,55,55	4
85	MG	1	3570	1/1	0.82	0.26	46,46,46,46	0
85	MG	1	3597	1/1	0.82	0.28	47,47,47,47	0
85	MG	1	3602	1/1	0.82	0.32	58,58,58,58	0
85	MG	2	1940	1/1	0.82	0.47	80,80,80,80	0
85	MG	1	3460	1/1	0.82	0.36	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2110	7/7	0.82	0.19	112,112,112,112	6
86	OHX	5	4111	7/7	0.82	0.15	74,74,74,74	7
85	MG	1	3612	1/1	0.82	0.28	55,55,55,55	0
86	OHX	2	2109	7/7	0.82	0.14	105,105,105,105	6
85	MG	1	3751	1/1	0.82	0.28	67,67,67,67	0
86	OHX	5	4140	7/7	0.82	0.18	88,88,88,88	7
86	OHX	6	2135	7/7	0.82	0.28	94,94,94,94	7
85	MG	5	3629	1/1	0.82	0.12	35,35,35,35	0
85	MG	5	3640	1/1	0.82	0.20	50,50,50,50	0
86	OHX	6	2162	7/7	0.82	0.19	114,114,114,114	5
85	MG	1	3587	1/1	0.82	0.33	35,35,35,35	0
86	OHX	6	2174	7/7	0.82	0.11	92,92,92,92	6
86	OHX	5	4161	7/7	0.82	0.13	123,123,123,123	7
86	OHX	2	2122	7/7	0.82	0.20	91,91,91,91	7
85	MG	1	3692	1/1	0.82	0.31	61,61,61,61	0
86	OHX	2	2128	7/7	0.82	0.17	115,115,115,115	7
86	OHX	5	4171	7/7	0.82	0.18	90,90,90,90	5
86	OHX	2	2133	7/7	0.82	0.10	214,214,214,214	6
86	OHX	7	224	7/7	0.82	0.16	54,54,54,54	5
85	MG	5	3790	1/1	0.82	0.25	69,69,69,69	0
85	MG	5	3809	1/1	0.82	0.27	42,42,42,42	0
86	OHX	5	4008	7/7	0.82	0.20	66,66,66,66	3
86	OHX	1	4029	7/7	0.82	0.15	82,82,82,82	3
86	OHX	5	4048	7/7	0.82	0.19	69,69,69,69	3
86	OHX	m4	201	7/7	0.82	0.15	108,108,108,108	7
85	MG	6	1905	1/1	0.82	0.27	51,51,51,51	0
86	OHX	5	4082	7/7	0.83	0.13	92,92,92,92	3
85	MG	5	3514	1/1	0.83	0.28	35,35,35,35	0
86	OHX	6	2097	7/7	0.83	0.23	49,49,49,49	1
85	MG	6	1936	1/1	0.83	0.28	76,76,76,76	0
85	MG	5	3441	1/1	0.83	0.29	30,30,30,30	0
85	MG	2	1931	1/1	0.83	0.41	65,65,65,65	0
85	MG	5	3542	1/1	0.83	0.42	46,46,46,46	0
85	MG	5	3451	1/1	0.83	0.20	40,40,40,40	0
86	OHX	5	4125	7/7	0.83	0.27	48,48,48,48	5
86	OHX	5	4127	7/7	0.83	0.27	44,44,44,44	3
86	OHX	5	4128	7/7	0.83	0.18	47,47,47,47	4
86	OHX	5	4137	7/7	0.83	0.15	50,50,50,50	4
86	OHX	2	2105	7/7	0.83	0.15	87,87,87,87	3
85	MG	5	3695	1/1	0.83	0.23	54,54,54,54	0
86	OHX	6	2161	7/7	0.83	0.21	84,84,84,84	6
86	OHX	1	4078	7/7	0.83	0.10	167,167,167,167	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2165	7/7	0.83	0.18	74,74,74,74	6
86	OHX	6	2167	7/7	0.83	0.20	73,73,73,73	7
85	MG	6	2002	1/1	0.83	0.10	66,66,66,66	0
85	MG	6	2003	1/1	0.83	0.20	96,96,96,96	0
85	MG	1	3690	1/1	0.83	0.29	63,63,63,63	0
86	OHX	5	4164	7/7	0.83	0.19	61,61,61,61	7
86	OHX	1	3915	7/7	0.83	0.18	66,66,66,66	4
85	MG	5	3724	1/1	0.83	0.29	35,35,35,35	0
86	OHX	6	2182	7/7	0.83	0.20	113,113,113,113	7
85	MG	2	1923	1/1	0.83	0.32	45,45,45,45	0
85	MG	1	3433	1/1	0.83	0.30	34,34,34,34	0
86	OHX	2	2124	7/7	0.83	0.12	128,128,128,128	6
85	MG	5	3485	1/1	0.83	0.18	38,38,38,38	0
86	OHX	1	4110	7/7	0.83	0.30	55,55,55,55	5
86	OHX	1	4016	7/7	0.83	0.23	56,56,56,56	3
85	MG	2	1908	1/1	0.83	0.16	90,90,90,90	0
85	MG	1	3532	1/1	0.83	0.35	42,42,42,42	0
85	MG	5	3508	1/1	0.83	0.37	31,31,31,31	0
85	MG	5	3673	1/1	0.83	0.33	78,78,78,78	0
85	MG	6	1933	1/1	0.84	0.33	56,56,56,56	0
85	MG	6	1934	1/1	0.84	0.29	43,43,43,43	0
85	MG	5	3638	1/1	0.84	0.17	50,50,50,50	0
86	OHX	1	4042	7/7	0.84	0.09	70,70,70,70	5
86	OHX	2	2114	7/7	0.84	0.17	103,103,103,103	4
85	MG	1	3523	1/1	0.84	0.33	54,54,54,54	0
86	OHX	1	4065	7/7	0.84	0.19	59,59,59,59	5
85	MG	5	3663	1/1	0.84	0.24	48,48,48,48	0
85	MG	1	3426	1/1	0.84	0.28	52,52,52,52	0
85	MG	1	3465	1/1	0.84	0.29	28,28,28,28	0
85	MG	6	1982	1/1	0.84	0.28	53,53,53,53	0
85	MG	1	3741	1/1	0.84	0.29	46,46,46,46	0
85	MG	5	3479	1/1	0.84	0.28	70,70,70,70	0
85	MG	2	1935	1/1	0.84	0.24	70,70,70,70	0
86	OHX	1	4086	7/7	0.84	0.21	65,65,65,65	4
85	MG	5	3483	1/1	0.84	0.29	52,52,52,52	0
86	OHX	1	4092	7/7	0.84	0.22	47,47,47,47	3
85	MG	2	1942	1/1	0.84	0.22	69,69,69,69	0
85	MG	5	3502	1/1	0.84	0.40	31,31,31,31	0
86	OHX	5	4107	7/7	0.84	0.17	81,81,81,81	5
85	MG	5	3697	1/1	0.84	0.10	61,61,61,61	0
85	MG	1	3758	1/1	0.84	0.28	48,48,48,48	0
85	MG	1	3445	1/1	0.84	0.37	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4112	1/1	0.84	0.11	44,44,44,44	0
85	MG	5	3510	1/1	0.84	0.22	39,39,39,39	0
85	MG	1	3497	1/1	0.84	0.35	25,25,25,25	0
85	MG	1	3505	1/1	0.84	0.35	38,38,38,38	0
86	OHX	5	4132	7/7	0.84	0.21	45,45,45,45	4
85	MG	2	1948	1/1	0.84	0.30	72,72,72,72	0
85	MG	6	2004	1/1	0.84	0.28	74,74,74,74	0
85	MG	5	3782	1/1	0.84	0.18	48,48,48,48	0
85	MG	6	1921	1/1	0.84	0.33	66,66,66,66	0
85	MG	1	3414	1/1	0.84	0.40	43,43,43,43	0
86	OHX	6	2080	7/7	0.84	0.20	82,82,82,82	1
86	OHX	1	3924	7/7	0.84	0.20	71,71,71,71	4
85	MG	7	212	1/1	0.84	0.27	51,51,51,51	0
86	OHX	5	4158	7/7	0.84	0.18	35,35,35,35	3
86	OHX	1	3955	7/7	0.84	0.21	71,71,71,71	3
86	OHX	6	2118	7/7	0.84	0.22	89,89,89,89	5
86	OHX	1	3963	7/7	0.84	0.27	51,51,51,51	3
85	MG	M6	201	1/1	0.84	0.13	34,34,34,34	0
85	MG	5	3557	1/1	0.84	0.35	29,29,29,29	0
85	MG	1	3630	1/1	0.84	0.24	76,76,76,76	0
86	OHX	6	2148	7/7	0.84	0.21	54,54,54,54	3
85	MG	5	3420	1/1	0.84	0.33	26,26,26,26	0
86	OHX	6	2150	7/7	0.84	0.15	78,78,78,78	6
86	OHX	6	2152	7/7	0.84	0.17	107,107,107,107	5
85	MG	5	3590	1/1	0.84	0.28	35,35,35,35	0
86	OHX	1	4018	7/7	0.84	0.13	69,69,69,69	3
86	OHX	l5	302	7/7	0.84	0.14	105,105,105,105	4
85	MG	1	3567	1/1	0.84	0.20	48,48,48,48	0
86	OHX	m0	302	7/7	0.84	0.24	49,49,49,49	3
86	OHX	1	4028	7/7	0.84	0.15	58,58,58,58	3
85	MG	1	3710	1/1	0.84	0.09	46,46,46,46	0
86	OHX	6	2173	7/7	0.84	0.15	64,64,64,64	5
85	MG	5	3598	1/1	0.85	0.25	48,48,48,48	0
86	OHX	sR	401	7/7	0.85	0.13	129,129,129,129	6
86	OHX	5	3936	7/7	0.85	0.21	49,49,49,49	3
85	MG	5	3800	1/1	0.85	0.11	70,70,70,70	0
85	MG	6	1953	1/1	0.85	0.36	63,63,63,63	0
86	OHX	C3	201	7/7	0.85	0.14	100,100,100,100	5
86	OHX	5	4046	7/7	0.85	0.09	53,53,53,53	5
86	OHX	1	4095	7/7	0.85	0.23	55,55,55,55	5
85	MG	5	3602	1/1	0.85	0.24	30,30,30,30	0
86	OHX	1	4098	7/7	0.85	0.13	61,61,61,61	5

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4102	7/7	0.85	0.16	65,65,65,65	3
86	OHX	1	4103	7/7	0.85	0.21	53,53,53,53	5
85	MG	5	3619	1/1	0.85	0.25	47,47,47,47	0
85	MG	1	3712	1/1	0.85	0.34	44,44,44,44	0
85	MG	1	3571	1/1	0.85	0.35	53,53,53,53	0
86	OHX	5	4087	7/7	0.85	0.30	39,39,39,39	5
85	MG	5	3632	1/1	0.85	0.11	36,36,36,36	0
86	OHX	2	2065	7/7	0.85	0.19	106,106,106,106	5
85	MG	N3	201	1/1	0.85	0.31	36,36,36,36	0
86	OHX	2	2101	7/7	0.85	0.17	110,110,110,110	5
86	OHX	5	4117	7/7	0.85	0.23	40,40,40,40	5
85	MG	1	3488	1/1	0.85	0.35	37,37,37,37	0
85	MG	5	3659	1/1	0.85	0.28	39,39,39,39	0
86	OHX	1	4000	7/7	0.85	0.22	55,55,55,55	3
86	OHX	1	4009	7/7	0.85	0.09	131,131,131,131	7
85	MG	5	3501	1/1	0.85	0.25	42,42,42,42	0
85	MG	2	1906	1/1	0.85	0.27	68,68,68,68	0
86	OHX	5	4136	7/7	0.85	0.10	180,180,180,180	7
85	MG	1	3542	1/1	0.85	0.35	50,50,50,50	0
86	OHX	1	4019	7/7	0.85	0.20	47,47,47,47	2
85	MG	2	1917	1/1	0.85	0.35	54,54,54,54	0
86	OHX	5	4142	7/7	0.85	0.12	58,58,58,58	4
86	OHX	6	2120	7/7	0.85	0.11	70,70,70,70	3
86	OHX	1	4027	7/7	0.85	0.15	75,75,75,75	3
85	MG	2	1976	1/1	0.85	0.24	77,77,77,77	0
85	MG	1	3555	1/1	0.85	0.33	26,26,26,26	0
85	MG	1	3604	1/1	0.85	0.39	39,39,39,39	0
86	OHX	5	4154	7/7	0.85	0.10	111,111,111,111	6
85	MG	5	3401	1/1	0.85	0.20	53,53,53,53	0
85	MG	1	3512	1/1	0.85	0.31	31,31,31,31	0
85	MG	1	3693	1/1	0.85	0.28	49,49,49,49	0
85	MG	1	3430	1/1	0.85	0.27	57,57,57,57	0
86	OHX	6	2157	7/7	0.85	0.12	90,90,90,90	7
86	OHX	6	2158	7/7	0.85	0.10	131,131,131,131	7
85	MG	6	1945	1/1	0.85	0.33	51,51,51,51	0
86	OHX	1	4063	7/7	0.85	0.10	159,159,159,159	7
85	MG	2	1977	1/1	0.85	0.23	72,72,72,72	0
86	OHX	6	2166	7/7	0.85	0.14	66,66,66,66	4
85	MG	2	1956	1/1	0.85	0.42	70,70,70,70	0
85	MG	5	3564	1/1	0.85	0.40	27,27,27,27	0
85	MG	2	1934	1/1	0.85	0.28	80,80,80,80	0
85	MG	5	3747	1/1	0.85	0.25	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	1949	1/1	0.85	0.28	77,77,77,77	0
85	MG	5	3589	1/1	0.85	0.36	28,28,28,28	0
85	MG	6	1950	1/1	0.85	0.43	66,66,66,66	0
86	OHX	1	4085	7/7	0.85	0.10	61,61,61,61	6
87	ZN	D7	101	1/1	0.85	0.16	161,161,161,161	0
85	MG	5	3472	1/1	0.85	0.24	39,39,39,39	0
85	MG	3	208	1/1	0.86	0.19	42,42,42,42	0
86	OHX	1	4077	7/7	0.86	0.12	62,62,62,62	4
86	OHX	6	2181	7/7	0.86	0.15	117,117,117,117	7
85	MG	4	203	1/1	0.86	0.32	57,57,57,57	0
85	MG	1	3534	1/1	0.86	0.29	69,69,69,69	0
85	MG	4	214	1/1	0.86	0.26	41,41,41,41	0
86	OHX	c5	202	7/7	0.86	0.16	109,109,109,109	6
85	MG	4	215	1/1	0.86	0.36	55,55,55,55	0
85	MG	5	3592	1/1	0.86	0.39	35,35,35,35	0
85	MG	5	3596	1/1	0.86	0.18	47,47,47,47	0
86	OHX	5	3970	7/7	0.86	0.21	80,80,80,80	3
85	MG	1	3715	1/1	0.86	0.31	46,46,46,46	0
85	MG	6	1926	1/1	0.86	0.20	65,65,65,65	0
85	MG	1	3561	1/1	0.86	0.24	22,22,22,22	0
85	MG	1	3483	1/1	0.86	0.25	54,54,54,54	0
85	MG	1	3421	1/1	0.86	0.26	58,58,58,58	0
86	OHX	1	4101	7/7	0.86	0.14	66,66,66,66	4
85	MG	SM	301	1/1	0.86	0.28	58,58,58,58	0
86	OHX	1	3927	7/7	0.86	0.21	51,51,51,51	3
85	MG	1	3491	1/1	0.86	0.35	51,51,51,51	0
86	OHX	2	2049	7/7	0.86	0.15	100,100,100,100	4
85	MG	6	1902	1/1	0.86	0.35	40,40,40,40	0
86	OHX	2	2074	7/7	0.86	0.14	85,85,85,85	3
86	OHX	1	4109	7/7	0.86	0.19	48,48,48,48	4
86	OHX	1	3974	7/7	0.86	0.24	63,63,63,63	5
86	OHX	1	3975	7/7	0.86	0.12	88,88,88,88	3
86	OHX	2	2076	7/7	0.86	0.15	87,87,87,87	5
86	OHX	5	4115	7/7	0.86	0.18	63,63,63,63	6
86	OHX	1	3986	7/7	0.86	0.16	76,76,76,76	3
86	OHX	4	228	7/7	0.86	0.23	51,51,51,51	4
86	OHX	4	232	7/7	0.86	0.15	73,73,73,73	5
86	OHX	1	3989	7/7	0.86	0.18	94,94,94,94	5
86	OHX	2	2081	7/7	0.86	0.17	120,120,120,120	6
86	OHX	M9	202	7/7	0.86	0.12	77,77,77,77	3
85	MG	6	2006	1/1	0.86	0.32	67,67,67,67	0
86	OHX	2	2092	7/7	0.86	0.18	73,73,73,73	5

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2091	7/7	0.86	0.24	83,83,83,83	3
86	OHX	2	2093	7/7	0.86	0.21	110,110,110,110	5
85	MG	6	2009	1/1	0.86	0.22	64,64,64,64	0
85	MG	1	3546	1/1	0.86	0.34	36,36,36,36	0
85	MG	6	1935	1/1	0.86	0.36	44,44,44,44	0
85	MG	1	3529	1/1	0.86	0.30	34,34,34,34	0
85	MG	5	3513	1/1	0.86	0.23	37,37,37,37	0
85	MG	1	3432	1/1	0.86	0.16	49,49,49,49	0
86	OHX	5	4152	7/7	0.86	0.16	76,76,76,76	5
85	MG	5	3515	1/1	0.86	0.24	42,42,42,42	0
85	MG	d6	102	1/1	0.86	0.21	68,68,68,68	0
85	MG	5	3526	1/1	0.86	0.35	29,29,29,29	0
86	OHX	1	4038	7/7	0.86	0.28	56,56,56,56	4
85	MG	1	3659	1/1	0.86	0.12	78,78,78,78	0
86	OHX	5	4162	7/7	0.86	0.12	100,100,100,100	7
85	MG	5	3406	1/1	0.86	0.09	47,47,47,47	0
85	MG	5	3417	1/1	0.86	0.27	64,64,64,64	0
86	OHX	1	4045	7/7	0.86	0.17	54,54,54,54	1
86	OHX	5	4168	7/7	0.86	0.17	64,64,64,64	5
86	OHX	1	4046	7/7	0.86	0.12	50,50,50,50	2
86	OHX	1	4050	7/7	0.86	0.23	58,58,58,58	5
86	OHX	6	2163	7/7	0.86	0.18	61,61,61,61	4
86	OHX	6	2164	7/7	0.86	0.18	44,44,44,44	5
85	MG	1	3592	1/1	0.86	0.18	61,61,61,61	0
85	MG	5	3714	1/1	0.86	0.14	36,36,36,36	0
85	MG	6	1978	1/1	0.86	0.22	77,77,77,77	0
86	OHX	8	231	7/7	0.86	0.23	62,62,62,62	5
86	OHX	6	2168	7/7	0.86	0.16	76,76,76,76	3
85	MG	5	3719	1/1	0.86	0.27	63,63,63,63	1
86	OHX	6	2171	7/7	0.86	0.22	53,53,53,53	7
85	MG	2	1926	1/1	0.86	0.22	76,76,76,76	0
85	MG	5	3431	1/1	0.86	0.20	41,41,41,41	0
85	MG	5	3733	1/1	0.86	0.19	50,50,50,50	0
86	OHX	6	2176	7/7	0.86	0.16	62,62,62,62	7
86	OHX	2	2079	7/7	0.87	0.23	82,82,82,82	3
86	OHX	5	4026	7/7	0.87	0.21	54,54,54,54	4
86	OHX	5	4033	7/7	0.87	0.16	98,98,98,98	7
85	MG	1	3504	1/1	0.87	0.36	42,42,42,42	0
85	MG	1	3439	1/1	0.87	0.25	60,60,60,60	0
86	OHX	1	3990	7/7	0.87	0.14	92,92,92,92	6
85	MG	6	1917	1/1	0.87	0.33	64,64,64,64	0
86	OHX	5	4055	7/7	0.87	0.19	56,56,56,56	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4059	7/7	0.87	0.20	47,47,47,47	3
85	MG	1	3613	1/1	0.87	0.32	58,58,58,58	0
85	MG	6	2007	1/1	0.87	0.24	51,51,51,51	0
85	MG	1	3619	1/1	0.87	0.22	53,53,53,53	0
86	OHX	5	4081	7/7	0.87	0.19	35,35,35,35	3
85	MG	4	202	1/1	0.87	0.16	64,64,64,64	0
85	MG	6	1922	1/1	0.87	0.14	55,55,55,55	0
85	MG	2	1979	1/1	0.87	0.13	70,70,70,70	0
85	MG	1	3474	1/1	0.87	0.26	48,48,48,48	0
85	MG	5	3523	1/1	0.87	0.35	29,29,29,29	0
86	OHX	5	4105	7/7	0.87	0.12	84,84,84,84	4
86	OHX	6	2083	7/7	0.87	0.21	94,94,94,94	7
85	MG	4	211	1/1	0.87	0.10	54,54,54,54	0
85	MG	1	3641	1/1	0.87	0.24	49,49,49,49	0
85	MG	5	3703	1/1	0.87	0.29	58,58,58,58	0
85	MG	5	3705	1/1	0.87	0.21	66,66,66,66	0
85	MG	5	3535	1/1	0.87	0.31	36,36,36,36	0
85	MG	1	3642	1/1	0.87	0.31	32,32,32,32	0
86	OHX	5	4124	7/7	0.87	0.23	51,51,51,51	6
86	OHX	2	2126	7/7	0.87	0.11	64,64,64,64	4
85	MG	5	3407	1/1	0.87	0.31	35,35,35,35	0
85	MG	5	3413	1/1	0.87	0.31	36,36,36,36	0
85	MG	1	3419	1/1	0.87	0.12	36,36,36,36	0
85	MG	1	3519	1/1	0.87	0.33	49,49,49,49	0
86	OHX	1	4058	7/7	0.87	0.20	100,100,100,100	4
86	OHX	2	2140	7/7	0.87	0.17	85,85,85,85	5
86	OHX	1	4062	7/7	0.87	0.22	51,51,51,51	3
86	OHX	6	2154	7/7	0.87	0.22	49,49,49,49	3
86	OHX	6	2155	7/7	0.87	0.17	71,71,71,71	3
86	OHX	5	4144	7/7	0.87	0.20	65,65,65,65	5
85	MG	5	3421	1/1	0.87	0.28	38,38,38,38	0
85	MG	1	3717	1/1	0.87	0.34	59,59,59,59	0
86	OHX	1	4066	7/7	0.87	0.16	63,63,63,63	6
85	MG	1	3719	1/1	0.87	0.20	65,65,65,65	0
85	MG	5	3585	1/1	0.87	0.38	35,35,35,35	0
86	OHX	2	2146	7/7	0.87	0.17	87,87,87,87	7
86	OHX	5	4155	7/7	0.87	0.09	97,97,97,97	7
85	MG	1	3454	1/1	0.87	0.33	31,31,31,31	0
85	MG	5	3777	1/1	0.87	0.12	41,41,41,41	0
85	MG	1	3413	1/1	0.87	0.31	41,41,41,41	0
85	MG	D3	201	1/1	0.87	0.12	54,54,54,54	0
85	MG	1	3496	1/1	0.87	0.33	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4080	7/7	0.87	0.21	57,57,57,57	4
85	MG	5	3594	1/1	0.87	0.34	35,35,35,35	0
85	MG	6	1985	1/1	0.87	0.15	55,55,55,55	0
85	MG	7	201	1/1	0.87	0.34	41,41,41,41	0
85	MG	1	3752	1/1	0.87	0.22	64,64,64,64	0
85	MG	1	3564	1/1	0.87	0.24	30,30,30,30	0
86	OHX	7	220	7/7	0.87	0.17	73,73,73,73	1
85	MG	1	3755	1/1	0.87	0.13	45,45,45,45	0
86	OHX	8	218	7/7	0.87	0.20	63,63,63,63	4
85	MG	5	3614	1/1	0.87	0.38	41,41,41,41	0
85	MG	2	1963	1/1	0.87	0.18	83,83,83,83	0
85	MG	1	3676	1/1	0.87	0.21	52,52,52,52	0
85	MG	6	1993	1/1	0.87	0.11	66,66,66,66	0
86	OHX	s8	303	7/7	0.87	0.14	105,105,105,105	3
86	OHX	2	2069	7/7	0.87	0.16	115,115,115,115	4
85	MG	1	3684	1/1	0.87	0.43	52,52,52,52	0
85	MG	6	1997	1/1	0.87	0.24	53,53,53,53	0
86	OHX	1	3978	7/7	0.87	0.19	77,77,77,77	3
86	OHX	1	3980	7/7	0.87	0.16	51,51,51,51	1
86	OHX	5	3975	7/7	0.87	0.22	85,85,85,85	3
85	MG	5	3709	1/1	0.88	0.19	51,51,51,51	0
85	MG	1	3577	1/1	0.88	0.21	39,39,39,39	0
86	OHX	5	4043	7/7	0.88	0.29	38,38,38,38	4
85	MG	5	3494	1/1	0.88	0.30	45,45,45,45	0
85	MG	5	3498	1/1	0.88	0.24	32,32,32,32	0
85	MG	5	3718	1/1	0.88	0.26	26,26,26,26	1
85	MG	6	1912	1/1	0.88	0.30	39,39,39,39	0
85	MG	1	3451	1/1	0.88	0.22	53,53,53,53	0
86	OHX	1	4023	7/7	0.88	0.15	73,73,73,73	3
86	OHX	1	4026	7/7	0.88	0.13	52,52,52,52	5
86	OHX	5	4069	7/7	0.88	0.18	58,58,58,58	5
86	OHX	5	4070	7/7	0.88	0.14	73,73,73,73	3
85	MG	1	3485	1/1	0.88	0.21	58,58,58,58	0
86	OHX	5	4079	7/7	0.88	0.21	54,54,54,54	5
85	MG	6	1944	1/1	0.88	0.30	63,63,63,63	0
86	OHX	6	2088	7/7	0.88	0.16	99,99,99,99	3
85	MG	5	3734	1/1	0.88	0.21	45,45,45,45	0
85	MG	5	3735	1/1	0.88	0.26	37,37,37,37	0
86	OHX	6	2102	7/7	0.88	0.20	97,97,97,97	4
85	MG	1	3721	1/1	0.88	0.28	43,43,43,43	0
86	OHX	5	4095	7/7	0.88	0.10	41,41,41,41	2
86	OHX	5	4104	7/7	0.88	0.18	68,68,68,68	6

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2134	7/7	0.88	0.13	74,74,74,74	4
85	MG	1	3678	1/1	0.88	0.32	53,53,53,53	0
85	MG	5	3617	1/1	0.88	0.32	35,35,35,35	0
86	OHX	6	2121	7/7	0.88	0.20	86,86,86,86	5
86	OHX	6	2123	7/7	0.88	0.17	70,70,70,70	4
86	OHX	5	4116	7/7	0.88	0.16	52,52,52,52	4
86	OHX	6	2126	7/7	0.88	0.20	53,53,53,53	3
86	OHX	2	2139	7/7	0.88	0.11	114,114,114,114	6
85	MG	6	1983	1/1	0.88	0.38	57,57,57,57	0
85	MG	1	3631	1/1	0.88	0.18	42,42,42,42	0
86	OHX	1	4049	7/7	0.88	0.21	61,61,61,61	5
85	MG	1	3453	1/1	0.88	0.29	39,39,39,39	0
85	MG	5	3630	1/1	0.88	0.28	56,56,56,56	0
86	OHX	1	4059	7/7	0.88	0.17	72,72,72,72	4
86	OHX	5	4133	7/7	0.88	0.23	34,34,34,34	3
86	OHX	5	4134	7/7	0.88	0.09	157,157,157,157	7
85	MG	1	3748	1/1	0.88	0.32	67,67,67,67	0
85	MG	2	1910	1/1	0.88	0.39	69,69,69,69	0
85	MG	5	3802	1/1	0.88	0.19	44,44,44,44	0
86	OHX	6	2156	7/7	0.88	0.08	150,150,150,150	5
85	MG	6	1923	1/1	0.88	0.35	46,46,46,46	0
85	MG	5	3815	1/1	0.88	0.20	44,44,44,44	0
86	OHX	6	2159	7/7	0.88	0.13	93,93,93,93	5
85	MG	5	3643	1/1	0.88	0.20	64,64,64,64	0
86	OHX	5	4148	7/7	0.88	0.14	100,100,100,100	6
85	MG	5	3648	1/1	0.88	0.18	37,37,37,37	0
85	MG	5	3652	1/1	0.88	0.27	35,35,35,35	0
85	MG	1	3458	1/1	0.88	0.31	51,51,51,51	0
86	OHX	1	3856	7/7	0.88	0.19	76,76,76,76	3
85	MG	1	3539	1/1	0.88	0.38	44,44,44,44	0
85	MG	5	3664	1/1	0.88	0.21	62,62,62,62	0
86	OHX	1	3883	7/7	0.88	0.17	71,71,71,71	1
86	OHX	1	3899	7/7	0.88	0.27	52,52,52,52	4
86	OHX	1	4082	7/7	0.88	0.18	63,63,63,63	5
85	MG	o3	201	1/1	0.88	0.45	51,51,51,51	0
85	MG	C	102	1/1	0.88	0.31	39,39,39,39	0
86	OHX	1	4088	7/7	0.88	0.16	92,92,92,92	7
85	MG	1	3696	1/1	0.88	0.27	30,30,30,30	0
85	MG	5	3672	1/1	0.88	0.40	62,62,62,62	0
86	OHX	1	3949	7/7	0.88	0.14	111,111,111,111	7
85	MG	1	3603	1/1	0.88	0.18	63,63,63,63	0
85	MG	1	3492	1/1	0.88	0.28	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3709	1/1	0.88	0.15	48,48,48,48	0
86	OHX	1	3971	7/7	0.88	0.20	47,47,47,47	4
85	MG	1	3449	1/1	0.88	0.31	57,57,57,57	0
86	OHX	c3	201	7/7	0.88	0.12	84,84,84,84	4
85	MG	3	202	1/1	0.88	0.36	56,56,56,56	0
85	MG	5	3566	1/1	0.88	0.30	31,31,31,31	0
85	MG	1	3526	1/1	0.88	0.27	45,45,45,45	0
85	MG	5	3569	1/1	0.88	0.27	38,38,38,38	0
85	MG	6	1969	1/1	0.88	0.31	55,55,55,55	0
85	MG	5	3700	1/1	0.88	0.14	43,43,43,43	0
86	OHX	5	3986	7/7	0.88	0.31	58,58,58,58	5
86	OHX	5	4006	7/7	0.88	0.23	109,109,109,109	5
85	MG	6	1970	1/1	0.88	0.36	64,64,64,64	0
85	MG	1	3476	1/1	0.88	0.38	43,43,43,43	0
86	OHX	2	2107	7/7	0.89	0.15	66,66,66,66	4
86	OHX	5	4040	7/7	0.89	0.10	149,149,149,149	6
85	MG	5	3444	1/1	0.89	0.19	34,34,34,34	0
85	MG	1	3599	1/1	0.89	0.08	32,32,32,32	0
85	MG	5	3448	1/1	0.89	0.23	36,36,36,36	0
85	MG	1	3448	1/1	0.89	0.23	49,49,49,49	0
86	OHX	O9	101	7/7	0.89	0.18	51,51,51,51	6
86	OHX	6	2071	7/7	0.89	0.24	58,58,58,58	4
86	OHX	5	4060	7/7	0.89	0.18	45,45,45,45	5
86	OHX	2	2119	7/7	0.89	0.15	62,62,62,62	3
85	MG	5	3458	1/1	0.89	0.30	28,28,28,28	0
85	MG	5	3584	1/1	0.89	0.23	27,27,27,27	0
85	MG	5	3460	1/1	0.89	0.10	36,36,36,36	0
86	OHX	5	4072	7/7	0.89	0.22	40,40,40,40	4
85	MG	5	3586	1/1	0.89	0.30	29,29,29,29	0
85	MG	1	3531	1/1	0.89	0.28	40,40,40,40	0
86	OHX	2	2125	7/7	0.89	0.11	147,147,147,147	6
86	OHX	6	2111	7/7	0.89	0.12	73,73,73,73	5
85	MG	1	3502	1/1	0.89	0.29	30,30,30,30	0
85	MG	1	3680	1/1	0.89	0.29	45,45,45,45	0
86	OHX	2	2131	7/7	0.89	0.12	109,109,109,109	5
85	MG	1	3681	1/1	0.89	0.35	37,37,37,37	0
86	OHX	5	4092	7/7	0.89	0.19	33,33,33,33	2
85	MG	1	3466	1/1	0.89	0.22	37,37,37,37	0
85	MG	5	3476	1/1	0.89	0.22	42,42,42,42	0
85	MG	1	3689	1/1	0.89	0.08	44,44,44,44	0
85	MG	1	3608	1/1	0.89	0.30	46,46,46,46	0
85	MG	1	3486	1/1	0.89	0.22	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2136	7/7	0.89	0.29	62,62,62,62	4
86	OHX	1	4055	7/7	0.89	0.15	81,81,81,81	5
86	OHX	6	2138	7/7	0.89	0.11	120,120,120,120	7
86	OHX	6	2146	7/7	0.89	0.21	48,48,48,48	4
85	MG	5	3612	1/1	0.89	0.18	40,40,40,40	0
85	MG	1	3535	1/1	0.89	0.27	39,39,39,39	0
85	MG	5	3759	1/1	0.89	0.26	46,46,46,46	0
85	MG	1	3506	1/1	0.89	0.29	32,32,32,32	0
86	OHX	6	2153	7/7	0.89	0.14	67,67,67,67	3
85	MG	1	3618	1/1	0.89	0.20	39,39,39,39	0
86	OHX	5	4130	7/7	0.89	0.09	171,171,171,171	7
85	MG	1	3455	1/1	0.89	0.28	29,29,29,29	0
85	MG	5	3784	1/1	0.89	0.12	35,35,35,35	0
85	MG	5	3789	1/1	0.89	0.16	49,49,49,49	0
85	MG	1	3621	1/1	0.89	0.35	52,52,52,52	0
85	MG	4	208	1/1	0.89	0.29	37,37,37,37	0
85	MG	2	1915	1/1	0.89	0.28	57,57,57,57	0
85	MG	1	3572	1/1	0.89	0.36	57,57,57,57	0
85	MG	1	3575	1/1	0.89	0.31	32,32,32,32	0
85	MG	5	3405	1/1	0.89	0.26	49,49,49,49	0
85	MG	1	3540	1/1	0.89	0.30	41,41,41,41	0
85	MG	5	3649	1/1	0.89	0.22	47,47,47,47	0
85	MG	2	1980	1/1	0.89	0.20	104,104,104,104	0
86	OHX	1	3905	7/7	0.89	0.18	57,57,57,57	1
85	MG	5	3408	1/1	0.89	0.14	40,40,40,40	0
85	MG	15	301	1/1	0.89	0.20	63,63,63,63	0
85	MG	1	3647	1/1	0.89	0.29	64,64,64,64	0
85	MG	1	3580	1/1	0.89	0.32	35,35,35,35	0
85	MG	5	3666	1/1	0.89	0.27	54,54,54,54	0
86	OHX	5	4157	7/7	0.89	0.17	44,44,44,44	5
85	MG	1	3475	1/1	0.89	0.33	44,44,44,44	0
85	MG	1	3545	1/1	0.89	0.27	31,31,31,31	0
85	MG	1	3493	1/1	0.89	0.31	42,42,42,42	0
86	OHX	6	2179	7/7	0.89	0.17	61,61,61,61	7
86	OHX	1	3968	7/7	0.89	0.17	72,72,72,72	3
86	OHX	1	4099	7/7	0.89	0.10	53,53,53,53	3
85	MG	5	3423	1/1	0.89	0.17	43,43,43,43	0
85	MG	5	3543	1/1	0.89	0.31	41,41,41,41	0
85	MG	5	3681	1/1	0.89	0.09	43,43,43,43	0
85	MG	5	3682	1/1	0.89	0.14	45,45,45,45	0
86	OHX	1	4105	7/7	0.89	0.32	46,46,46,46	5
85	MG	5	3683	1/1	0.89	0.15	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3545	1/1	0.89	0.27	57,57,57,57	0
86	OHX	5	3941	7/7	0.89	0.22	34,34,34,34	4
85	MG	1	3549	1/1	0.89	0.23	59,59,59,59	0
86	OHX	1	3988	7/7	0.89	0.16	87,87,87,87	5
85	MG	1	3742	1/1	0.89	0.18	44,44,44,44	0
85	MG	5	3687	1/1	0.89	0.27	37,37,37,37	0
86	OHX	5	3995	7/7	0.89	0.15	88,88,88,88	5
85	MG	5	3555	1/1	0.89	0.22	54,54,54,54	0
85	MG	2	1930	1/1	0.89	0.39	72,72,72,72	0
86	OHX	5	4019	7/7	0.89	0.18	76,76,76,76	6
86	OHX	1	4002	7/7	0.89	0.17	65,65,65,65	7
86	OHX	m9	201	7/7	0.89	0.10	61,61,61,61	6
86	OHX	o6	201	7/7	0.89	0.22	68,68,68,68	4
86	OHX	5	4032	7/7	0.89	0.15	71,71,71,71	4
86	OHX	4	231	7/7	0.89	0.11	75,75,75,75	5
85	MG	5	3625	1/1	0.90	0.22	51,51,51,51	0
85	MG	5	3781	1/1	0.90	0.25	43,43,43,43	0
85	MG	1	3437	1/1	0.90	0.28	44,44,44,44	0
85	MG	2	1921	1/1	0.90	0.22	63,63,63,63	0
85	MG	1	3410	1/1	0.90	0.22	39,39,39,39	0
86	OHX	5	3988	7/7	0.90	0.16	64,64,64,64	5
85	MG	5	3631	1/1	0.90	0.25	52,52,52,52	0
86	OHX	S8	301	7/7	0.90	0.10	115,115,115,115	7
85	MG	5	3791	1/1	0.90	0.17	46,46,46,46	0
86	OHX	5	4011	7/7	0.90	0.13	120,120,120,120	3
85	MG	5	3792	1/1	0.90	0.27	55,55,55,55	0
85	MG	5	3509	1/1	0.90	0.34	25,25,25,25	0
85	MG	5	3633	1/1	0.90	0.22	34,34,34,34	0
85	MG	5	3803	1/1	0.90	0.17	35,35,35,35	0
86	OHX	1	3884	7/7	0.90	0.17	74,74,74,74	4
85	MG	1	3508	1/1	0.90	0.17	38,38,38,38	0
85	MG	1	3671	1/1	0.90	0.26	47,47,47,47	0
86	OHX	1	3908	7/7	0.90	0.16	91,91,91,91	3
85	MG	1	3723	1/1	0.90	0.18	67,67,67,67	0
86	OHX	5	4050	7/7	0.90	0.18	45,45,45,45	3
85	MG	7	210	1/1	0.90	0.26	43,43,43,43	0
86	OHX	3	214	7/7	0.90	0.19	83,83,83,83	4
85	MG	5	3646	1/1	0.90	0.28	56,56,56,56	0
85	MG	8	202	1/1	0.90	0.19	42,42,42,42	0
86	OHX	4	226	7/7	0.90	0.12	106,106,106,106	5
85	MG	1	3726	1/1	0.90	0.23	64,64,64,64	0
85	MG	M6	202	1/1	0.90	0.11	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3581	1/1	0.90	0.38	29,29,29,29	0
86	OHX	1	3964	7/7	0.90	0.16	71,71,71,71	4
86	OHX	5	4075	7/7	0.90	0.14	47,47,47,47	3
86	OHX	L5	301	7/7	0.90	0.17	88,88,88,88	6
85	MG	1	3735	1/1	0.90	0.10	49,49,49,49	0
86	OHX	5	4080	7/7	0.90	0.18	55,55,55,55	3
85	MG	5	3530	1/1	0.90	0.27	31,31,31,31	0
85	MG	l7	2201	1/1	0.90	0.16	46,46,46,46	0
86	OHX	O4	202	7/7	0.90	0.14	82,82,82,82	5
86	OHX	1	3973	7/7	0.90	0.15	63,63,63,63	5
85	MG	m5	302	1/1	0.90	0.15	46,46,46,46	0
85	MG	1	3614	1/1	0.90	0.25	54,54,54,54	0
85	MG	5	3426	1/1	0.90	0.23	45,45,45,45	0
86	OHX	6	2086	7/7	0.90	0.19	70,70,70,70	5
86	OHX	5	4098	7/7	0.90	0.11	106,106,106,106	5
86	OHX	5	4100	7/7	0.90	0.16	46,46,46,46	5
86	OHX	2	2011	7/7	0.90	0.15	83,83,83,83	3
85	MG	5	3539	1/1	0.90	0.30	33,33,33,33	0
86	OHX	6	2095	7/7	0.90	0.16	99,99,99,99	3
86	OHX	2	2064	7/7	0.90	0.15	135,135,135,135	5
85	MG	5	3670	1/1	0.90	0.17	35,35,35,35	0
85	MG	5	3429	1/1	0.90	0.21	31,31,31,31	0
85	MG	N6	201	1/1	0.90	0.29	70,70,70,70	0
85	MG	5	3432	1/1	0.90	0.12	32,32,32,32	0
85	MG	1	3616	1/1	0.90	0.18	58,58,58,58	0
86	OHX	5	4122	7/7	0.90	0.14	52,52,52,52	3
85	MG	5	3546	1/1	0.90	0.37	46,46,46,46	0
85	MG	6	1939	1/1	0.90	0.25	34,34,34,34	0
86	OHX	6	2122	7/7	0.90	0.14	77,77,77,77	4
86	OHX	2	2086	7/7	0.90	0.13	112,112,112,112	5
86	OHX	6	2125	7/7	0.90	0.13	52,52,52,52	5
86	OHX	2	2088	7/7	0.90	0.17	91,91,91,91	6
85	MG	Q2	502	1/1	0.90	0.28	63,63,63,63	0
85	MG	1	3583	1/1	0.90	0.31	31,31,31,31	0
86	OHX	2	2095	7/7	0.90	0.13	75,75,75,75	5
86	OHX	2	2098	7/7	0.90	0.15	111,111,111,111	6
85	MG	1	3743	1/1	0.90	0.15	50,50,50,50	0
85	MG	5	3454	1/1	0.90	0.12	59,59,59,59	0
85	MG	1	3744	1/1	0.90	0.19	44,44,44,44	0
86	OHX	5	4141	7/7	0.90	0.16	49,49,49,49	4
85	MG	6	1904	1/1	0.90	0.29	59,59,59,59	0
86	OHX	1	4030	7/7	0.90	0.10	130,130,130,130	6

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3481	1/1	0.90	0.21	40,40,40,40	0
86	OHX	1	4033	7/7	0.90	0.17	66,66,66,66	5
85	MG	1	3516	1/1	0.90	0.35	33,33,33,33	0
86	OHX	2	2111	7/7	0.90	0.13	112,112,112,112	5
85	MG	5	3577	1/1	0.90	0.30	31,31,31,31	0
85	MG	5	3466	1/1	0.90	0.20	37,37,37,37	0
86	OHX	2	2115	7/7	0.90	0.18	91,91,91,91	6
86	OHX	2	2116	7/7	0.90	0.10	127,127,127,127	7
85	MG	5	3467	1/1	0.90	0.20	47,47,47,47	0
86	OHX	1	4047	7/7	0.90	0.15	101,101,101,101	5
85	MG	1	3622	1/1	0.90	0.28	44,44,44,44	0
85	MG	5	3588	1/1	0.90	0.26	29,29,29,29	0
86	OHX	5	4160	7/7	0.90	0.21	37,37,37,37	5
86	OHX	1	4052	7/7	0.90	0.16	58,58,58,58	4
85	MG	5	3470	1/1	0.90	0.29	56,56,56,56	0
85	MG	1	3624	1/1	0.90	0.14	33,33,33,33	0
85	MG	1	3446	1/1	0.90	0.20	41,41,41,41	0
85	MG	1	3469	1/1	0.90	0.28	41,41,41,41	0
85	MG	1	3520	1/1	0.90	0.27	35,35,35,35	0
85	MG	1	3501	1/1	0.90	0.28	26,26,26,26	0
85	MG	1	3600	1/1	0.90	0.15	60,60,60,60	0
86	OHX	2	2129	7/7	0.90	0.18	87,87,87,87	5
86	OHX	2	2130	7/7	0.90	0.11	84,84,84,84	4
85	MG	1	3644	1/1	0.90	0.29	52,52,52,52	0
85	MG	1	3543	1/1	0.90	0.10	58,58,58,58	0
86	OHX	8	223	7/7	0.90	0.15	75,75,75,75	5
85	MG	5	3605	1/1	0.90	0.25	33,33,33,33	0
85	MG	5	3495	1/1	0.90	0.17	33,33,33,33	0
85	MG	1	3411	1/1	0.90	0.20	43,43,43,43	0
86	OHX	2	2138	7/7	0.90	0.18	67,67,67,67	5
85	MG	5	3750	1/1	0.90	0.22	37,37,37,37	0
85	MG	5	3753	1/1	0.90	0.23	30,30,30,30	0
85	MG	1	3657	1/1	0.90	0.26	49,49,49,49	0
85	MG	5	3618	1/1	0.90	0.25	34,34,34,34	0
85	MG	5	3769	1/1	0.90	0.16	50,50,50,50	0
86	OHX	m8	201	7/7	0.90	0.19	47,47,47,47	3
86	OHX	d4	201	7/7	0.90	0.11	90,90,90,90	6
85	MG	5	3770	1/1	0.90	0.23	47,47,47,47	0
86	OHX	5	3926	7/7	0.90	0.15	60,60,60,60	4
85	MG	1	3428	1/1	0.90	0.18	52,52,52,52	0
86	OHX	5	3971	7/7	0.91	0.15	41,41,41,41	7
85	MG	1	3598	1/1	0.91	0.25	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3639	1/1	0.91	0.18	36,36,36,36	0
85	MG	5	3807	1/1	0.91	0.18	54,54,54,54	0
85	MG	5	3808	1/1	0.91	0.13	36,36,36,36	0
86	OHX	5	4005	7/7	0.91	0.19	82,82,82,82	3
85	MG	5	3409	1/1	0.91	0.22	45,45,45,45	0
85	MG	1	3450	1/1	0.91	0.16	31,31,31,31	0
86	OHX	1	3891	7/7	0.91	0.10	103,103,103,103	5
86	OHX	5	4016	7/7	0.91	0.16	62,62,62,62	7
86	OHX	5	4017	7/7	0.91	0.18	36,36,36,36	2
85	MG	5	3644	1/1	0.91	0.19	34,34,34,34	0
86	OHX	5	4024	7/7	0.91	0.14	66,66,66,66	5
85	MG	2	1972	1/1	0.91	0.06	57,57,57,57	0
86	OHX	5	4030	7/7	0.91	0.15	70,70,70,70	5
85	MG	1	3452	1/1	0.91	0.30	55,55,55,55	0
86	OHX	1	3914	7/7	0.91	0.14	79,79,79,79	3
85	MG	5	3516	1/1	0.91	0.33	21,21,21,21	0
85	MG	4	204	1/1	0.91	0.32	64,64,64,64	0
85	MG	5	3657	1/1	0.91	0.21	33,33,33,33	0
86	OHX	5	4045	7/7	0.91	0.17	48,48,48,48	2
85	MG	1	3422	1/1	0.91	0.22	32,32,32,32	0
86	OHX	1	3930	7/7	0.91	0.14	118,118,118,118	2
86	OHX	3	215	7/7	0.91	0.13	90,90,90,90	3
86	OHX	1	3947	7/7	0.91	0.14	80,80,80,80	3
85	MG	6	1975	1/1	0.91	0.16	90,90,90,90	0
86	OHX	5	4057	7/7	0.91	0.17	50,50,50,50	2
86	OHX	1	3952	7/7	0.91	0.11	140,140,140,140	5
85	MG	1	3403	1/1	0.91	0.20	42,42,42,42	0
86	OHX	4	230	7/7	0.91	0.11	45,45,45,45	3
85	MG	1	3478	1/1	0.91	0.19	60,60,60,60	0
85	MG	2	1947	1/1	0.91	0.14	76,76,76,76	0
86	OHX	4	233	7/7	0.91	0.15	65,65,65,65	5
85	MG	n6	201	1/1	0.91	0.16	56,56,56,56	0
86	OHX	1	3966	7/7	0.91	0.22	35,35,35,35	3
85	MG	1	3444	1/1	0.91	0.25	35,35,35,35	0
85	MG	L6	201	1/1	0.91	0.18	57,57,57,57	0
85	MG	5	3541	1/1	0.91	0.25	41,41,41,41	0
86	OHX	2	2036	7/7	0.91	0.11	145,145,145,145	5
85	MG	5	3433	1/1	0.91	0.26	37,37,37,37	0
86	OHX	2	2058	7/7	0.91	0.18	67,67,67,67	4
86	OHX	5	4085	7/7	0.91	0.10	143,143,143,143	7
85	MG	5	3676	1/1	0.91	0.18	51,51,51,51	0
86	OHX	1	3981	7/7	0.91	0.21	53,53,53,53	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4090	7/7	0.91	0.16	51,51,51,51	4
85	MG	5	3434	1/1	0.91	0.25	33,33,33,33	0
86	OHX	6	2087	7/7	0.91	0.11	109,109,109,109	6
85	MG	5	3436	1/1	0.91	0.15	44,44,44,44	0
86	OHX	1	3987	7/7	0.91	0.14	73,73,73,73	5
86	OHX	5	4099	7/7	0.91	0.12	73,73,73,73	5
85	MG	M0	301	1/1	0.91	0.23	41,41,41,41	0
85	MG	5	3442	1/1	0.91	0.18	32,32,32,32	0
85	MG	2	1983	1/1	0.91	0.11	84,84,84,84	0
85	MG	5	3549	1/1	0.91	0.11	43,43,43,43	0
85	MG	5	3551	1/1	0.91	0.27	32,32,32,32	0
86	OHX	6	2112	7/7	0.91	0.21	66,66,66,66	4
85	MG	1	3728	1/1	0.91	0.18	47,47,47,47	0
86	OHX	2	2087	7/7	0.91	0.14	89,89,89,89	5
86	OHX	1	4010	7/7	0.91	0.21	44,44,44,44	5
85	MG	1	3462	1/1	0.91	0.22	44,44,44,44	0
85	MG	5	3693	1/1	0.91	0.25	38,38,38,38	0
85	MG	1	3673	1/1	0.91	0.20	39,39,39,39	0
85	MG	5	3565	1/1	0.91	0.25	32,32,32,32	0
86	OHX	1	4020	7/7	0.91	0.14	47,47,47,47	3
86	OHX	6	2127	7/7	0.91	0.17	58,58,58,58	5
85	MG	1	3736	1/1	0.91	0.09	50,50,50,50	0
86	OHX	6	2132	7/7	0.91	0.13	94,94,94,94	6
86	OHX	5	4131	7/7	0.91	0.10	64,64,64,64	5
85	MG	5	3455	1/1	0.91	0.23	31,31,31,31	0
85	MG	6	1989	1/1	0.91	0.20	57,57,57,57	0
85	MG	1	3513	1/1	0.91	0.28	34,34,34,34	0
85	MG	5	3710	1/1	0.91	0.18	55,55,55,55	0
85	MG	1	3578	1/1	0.91	0.31	60,60,60,60	0
86	OHX	6	2143	7/7	0.91	0.19	51,51,51,51	3
85	MG	5	3463	1/1	0.91	0.12	39,39,39,39	0
86	OHX	2	2110	7/7	0.91	0.15	112,112,112,112	5
85	MG	O7	103	1/1	0.91	0.22	49,49,49,49	0
86	OHX	1	4035	7/7	0.91	0.12	65,65,65,65	4
85	MG	5	3716	1/1	0.91	0.20	34,34,34,34	0
85	MG	1	3515	1/1	0.91	0.24	28,28,28,28	0
85	MG	2	1971	1/1	0.91	0.19	81,81,81,81	0
85	MG	5	3468	1/1	0.91	0.22	47,47,47,47	0
85	MG	1	3429	1/1	0.91	0.21	36,36,36,36	0
85	MG	5	3726	1/1	0.91	0.08	46,46,46,46	0
85	MG	1	3683	1/1	0.91	0.35	39,39,39,39	1
85	MG	1	3585	1/1	0.91	0.41	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3490	1/1	0.91	0.30	34,34,34,34	0
85	MG	1	3627	1/1	0.91	0.26	41,41,41,41	0
85	MG	5	3743	1/1	0.91	0.12	32,32,32,32	0
85	MG	5	3746	1/1	0.91	0.33	76,76,76,76	0
85	MG	6	2008	1/1	0.91	0.39	61,61,61,61	0
85	MG	2	1975	1/1	0.91	0.33	60,60,60,60	0
85	MG	5	3749	1/1	0.91	0.23	30,30,30,30	0
85	MG	1	3588	1/1	0.91	0.22	39,39,39,39	0
85	MG	6	1955	1/1	0.91	0.28	60,60,60,60	0
85	MG	5	3756	1/1	0.91	0.16	42,42,42,42	0
85	MG	5	3608	1/1	0.91	0.34	50,50,50,50	0
85	MG	5	3493	1/1	0.91	0.33	42,42,42,42	0
85	MG	c8	201	1/1	0.91	0.11	91,91,91,91	0
85	MG	1	3467	1/1	0.91	0.14	42,42,42,42	0
85	MG	5	3773	1/1	0.91	0.12	52,52,52,52	0
86	OHX	7	222	7/7	0.91	0.18	38,38,38,38	4
86	OHX	7	223	7/7	0.91	0.16	54,54,54,54	4
86	OHX	1	4074	7/7	0.91	0.20	38,38,38,38	3
85	MG	5	3496	1/1	0.91	0.18	35,35,35,35	0
85	MG	5	3497	1/1	0.91	0.21	36,36,36,36	0
86	OHX	8	226	7/7	0.91	0.13	47,47,47,47	3
85	MG	5	3623	1/1	0.91	0.06	42,42,42,42	0
85	MG	1	3639	1/1	0.91	0.25	56,56,56,56	0
85	MG	1	3524	1/1	0.91	0.28	44,44,44,44	0
85	MG	5	3788	1/1	0.91	0.24	68,68,68,68	0
86	OHX	l3	404	7/7	0.91	0.09	72,72,72,72	4
86	OHX	1	4083	7/7	0.91	0.09	45,45,45,45	4
86	OHX	1	4084	7/7	0.91	0.24	42,42,42,42	5
85	MG	6	1914	1/1	0.91	0.27	62,62,62,62	0
85	MG	1	3420	1/1	0.91	0.29	45,45,45,45	0
86	OHX	5	3917	7/7	0.91	0.23	49,49,49,49	3
85	MG	5	3506	1/1	0.91	0.36	27,27,27,27	0
85	MG	3	204	1/1	0.91	0.35	33,33,33,33	0
85	MG	5	3793	1/1	0.91	0.20	37,37,37,37	0
85	MG	5	3797	1/1	0.91	0.13	39,39,39,39	0
85	MG	1	3707	1/1	0.91	0.27	48,48,48,48	0
85	MG	1	3479	1/1	0.92	0.16	45,45,45,45	0
86	OHX	5	3991	7/7	0.92	0.11	37,37,37,37	3
86	OHX	5	3993	7/7	0.92	0.16	38,38,38,38	4
85	MG	6	1925	1/1	0.92	0.24	49,49,49,49	0
86	OHX	2	2053	7/7	0.92	0.15	107,107,107,107	4
86	OHX	1	3939	7/7	0.92	0.13	54,54,54,54	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3613	1/1	0.92	0.24	42,42,42,42	0
86	OHX	2	2061	7/7	0.92	0.24	88,88,88,88	5
86	OHX	1	3951	7/7	0.92	0.12	159,159,159,159	7
85	MG	5	3517	1/1	0.92	0.18	28,28,28,28	0
85	MG	1	3711	1/1	0.92	0.20	54,54,54,54	0
85	MG	5	3519	1/1	0.92	0.32	35,35,35,35	0
86	OHX	3	213	7/7	0.92	0.16	82,82,82,82	5
85	MG	M7	202	1/1	0.92	0.34	40,40,40,40	0
86	OHX	5	4031	7/7	0.92	0.12	85,85,85,85	4
85	MG	5	3620	1/1	0.92	0.33	39,39,39,39	0
86	OHX	2	2077	7/7	0.92	0.14	108,108,108,108	7
85	MG	5	3621	1/1	0.92	0.13	36,36,36,36	0
86	OHX	1	3970	7/7	0.92	0.11	68,68,68,68	1
85	MG	6	1966	1/1	0.92	0.22	56,56,56,56	0
85	MG	5	3725	1/1	0.92	0.15	51,51,51,51	0
85	MG	5	3624	1/1	0.92	0.11	31,31,31,31	0
85	MG	5	3527	1/1	0.92	0.21	32,32,32,32	0
85	MG	M7	203	1/1	0.92	0.17	46,46,46,46	0
85	MG	5	3461	1/1	0.92	0.33	57,57,57,57	0
85	MG	1	3675	1/1	0.92	0.20	49,49,49,49	0
86	OHX	M0	303	7/7	0.92	0.19	55,55,55,55	4
85	MG	1	3558	1/1	0.92	0.23	35,35,35,35	0
86	OHX	2	2097	7/7	0.92	0.12	73,73,73,73	5
85	MG	1	3480	1/1	0.92	0.39	46,46,46,46	0
86	OHX	O3	201	7/7	0.92	0.22	52,52,52,52	4
85	MG	1	3679	1/1	0.92	0.20	59,59,59,59	0
85	MG	5	3634	1/1	0.92	0.10	36,36,36,36	0
85	MG	1	3418	1/1	0.92	0.16	47,47,47,47	0
86	OHX	1	3993	7/7	0.92	0.15	94,94,94,94	7
85	MG	1	3720	1/1	0.92	0.20	48,48,48,48	0
86	OHX	1	3998	7/7	0.92	0.15	107,107,107,107	4
85	MG	1	3470	1/1	0.92	0.21	46,46,46,46	0
85	MG	5	3642	1/1	0.92	0.11	39,39,39,39	0
86	OHX	1	4004	7/7	0.92	0.17	75,75,75,75	5
85	MG	1	3655	1/1	0.92	0.22	44,44,44,44	0
85	MG	1	3724	1/1	0.92	0.19	55,55,55,55	0
86	OHX	1	4012	7/7	0.92	0.15	64,64,64,64	1
86	OHX	6	2103	7/7	0.92	0.15	67,67,67,67	4
86	OHX	5	4089	7/7	0.92	0.24	47,47,47,47	3
86	OHX	6	2107	7/7	0.92	0.12	81,81,81,81	5
85	MG	5	3763	1/1	0.92	0.12	38,38,38,38	0
85	MG	5	3473	1/1	0.92	0.22	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3412	1/1	0.92	0.20	47,47,47,47	0
86	OHX	5	4097	7/7	0.92	0.13	75,75,75,75	6
85	MG	5	3475	1/1	0.92	0.16	51,51,51,51	0
85	MG	5	3651	1/1	0.92	0.08	42,42,42,42	0
85	MG	5	3552	1/1	0.92	0.26	52,52,52,52	0
85	MG	5	3653	1/1	0.92	0.14	47,47,47,47	0
86	OHX	1	4025	7/7	0.92	0.13	56,56,56,56	3
85	MG	3	207	1/1	0.92	0.34	66,66,66,66	0
85	MG	1	3548	1/1	0.92	0.25	30,30,30,30	0
85	MG	5	3661	1/1	0.92	0.15	64,64,64,64	0
86	OHX	5	4112	7/7	0.92	0.19	51,51,51,51	6
85	MG	6	1941	1/1	0.92	0.29	57,57,57,57	0
86	OHX	6	2130	7/7	0.92	0.09	153,153,153,153	7
85	MG	1	3463	1/1	0.92	0.25	39,39,39,39	0
86	OHX	1	4031	7/7	0.92	0.12	65,65,65,65	6
85	MG	1	3584	1/1	0.92	0.30	33,33,33,33	0
85	MG	1	3477	1/1	0.92	0.28	41,41,41,41	0
85	MG	5	3669	1/1	0.92	0.22	36,36,36,36	1
85	MG	5	3794	1/1	0.92	0.10	45,45,45,45	0
86	OHX	5	4126	7/7	0.92	0.12	98,98,98,98	3
85	MG	1	3629	1/1	0.92	0.13	33,33,33,33	0
85	MG	4	206	1/1	0.92	0.23	44,44,44,44	0
86	OHX	6	2145	7/7	0.92	0.11	92,92,92,92	4
85	MG	5	3801	1/1	0.92	0.25	44,44,44,44	0
85	MG	5	3427	1/1	0.92	0.27	40,40,40,40	0
85	MG	5	3580	1/1	0.92	0.38	38,38,38,38	0
85	MG	5	3675	1/1	0.92	0.28	34,34,34,34	1
86	OHX	5	4135	7/7	0.92	0.16	54,54,54,54	4
85	MG	4	207	1/1	0.92	0.30	41,41,41,41	0
85	MG	1	3663	1/1	0.92	0.29	44,44,44,44	0
85	MG	5	3499	1/1	0.92	0.14	42,42,42,42	0
85	MG	4	210	1/1	0.92	0.24	63,63,63,63	0
85	MG	7	209	1/1	0.92	0.20	54,54,54,54	0
86	OHX	1	4056	7/7	0.92	0.15	85,85,85,85	5
86	OHX	1	4057	7/7	0.92	0.09	109,109,109,109	5
86	OHX	2	2144	7/7	0.92	0.16	103,103,103,103	6
86	OHX	6	2160	7/7	0.92	0.18	69,69,69,69	5
85	MG	1	3695	1/1	0.92	0.31	58,58,58,58	0
85	MG	1	3665	1/1	0.92	0.24	48,48,48,48	0
85	MG	7	213	1/1	0.92	0.13	49,49,49,49	0
86	OHX	2	2148	7/7	0.92	0.29	69,69,69,69	6
86	OHX	1	4064	7/7	0.92	0.23	39,39,39,39	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	S2	301	1/1	0.92	0.31	62,62,62,62	0
85	MG	5	3439	1/1	0.92	0.26	30,30,30,30	0
85	MG	8	206	1/1	0.92	0.15	47,47,47,47	0
85	MG	8	209	1/1	0.92	0.24	55,55,55,55	0
85	MG	6	1956	1/1	0.92	0.30	44,44,44,44	0
85	MG	5	3688	1/1	0.92	0.19	47,47,47,47	0
85	MG	5	3595	1/1	0.92	0.38	28,28,28,28	0
86	OHX	D9	102	7/7	0.92	0.14	97,97,97,97	6
86	OHX	1	3849	7/7	0.92	0.19	48,48,48,48	5
85	MG	1	3556	1/1	0.92	0.22	29,29,29,29	0
85	MG	5	3597	1/1	0.92	0.16	44,44,44,44	0
85	MG	m0	301	1/1	0.92	0.20	33,33,33,33	0
86	OHX	1	4081	7/7	0.92	0.34	43,43,43,43	5
86	OHX	1	3875	7/7	0.92	0.23	53,53,53,53	3
86	OHX	1	3877	7/7	0.92	0.13	95,95,95,95	2
85	MG	m5	301	1/1	0.92	0.11	56,56,56,56	0
85	MG	5	3443	1/1	0.92	0.23	44,44,44,44	0
85	MG	m7	201	1/1	0.92	0.10	36,36,36,36	0
85	MG	n3	201	1/1	0.92	0.25	25,25,25,25	0
86	OHX	1	3900	7/7	0.92	0.14	57,57,57,57	3
86	OHX	8	222	7/7	0.92	0.13	100,100,100,100	5
86	OHX	1	4091	7/7	0.92	0.11	42,42,42,42	4
86	OHX	5	3916	7/7	0.92	0.15	77,77,77,77	3
86	OHX	1	3904	7/7	0.92	0.20	59,59,59,59	3
85	MG	5	3512	1/1	0.92	0.35	28,28,28,28	0
85	MG	1	3573	1/1	0.92	0.35	40,40,40,40	0
86	OHX	5	3938	7/7	0.92	0.15	50,50,50,50	3
86	OHX	1	3912	7/7	0.92	0.13	126,126,126,126	4
85	MG	q1	101	1/1	0.92	0.29	50,50,50,50	0
86	OHX	5	3949	7/7	0.92	0.20	56,56,56,56	4
86	OHX	5	3950	7/7	0.92	0.17	95,95,95,95	4
86	OHX	5	3963	7/7	0.92	0.13	62,62,62,62	5
86	OHX	5	3967	7/7	0.92	0.21	49,49,49,49	5
85	MG	1	3590	1/1	0.92	0.20	43,43,43,43	0
86	OHX	1	3916	7/7	0.92	0.19	54,54,54,54	4
86	OHX	1	4100	7/7	0.92	0.17	38,38,38,38	3
86	OHX	5	3977	7/7	0.92	0.24	58,58,58,58	4
85	MG	5	3708	1/1	0.92	0.09	50,50,50,50	0
85	MG	5	3410	1/1	0.93	0.15	29,29,29,29	0
85	MG	5	3570	1/1	0.93	0.25	29,29,29,29	0
86	OHX	1	4087	7/7	0.93	0.18	44,44,44,44	6
85	MG	8	203	1/1	0.93	0.16	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3411	1/1	0.93	0.31	44,44,44,44	0
86	OHX	5	3957	7/7	0.93	0.20	46,46,46,46	3
85	MG	5	3575	1/1	0.93	0.32	36,36,36,36	0
85	MG	8	207	1/1	0.93	0.18	43,43,43,43	0
85	MG	5	3484	1/1	0.93	0.35	28,28,28,28	0
85	MG	5	3578	1/1	0.93	0.29	35,35,35,35	0
86	OHX	1	3886	7/7	0.93	0.19	56,56,56,56	4
85	MG	1	3482	1/1	0.93	0.30	33,33,33,33	0
86	OHX	5	3978	7/7	0.93	0.13	69,69,69,69	4
86	OHX	5	3979	7/7	0.93	0.18	67,67,67,67	3
86	OHX	5	3982	7/7	0.93	0.14	58,58,58,58	3
86	OHX	1	4097	7/7	0.93	0.13	42,42,42,42	6
85	MG	5	3488	1/1	0.93	0.29	44,44,44,44	0
85	MG	5	3490	1/1	0.93	0.17	40,40,40,40	0
85	MG	5	3491	1/1	0.93	0.13	41,41,41,41	0
85	MG	5	3587	1/1	0.93	0.26	30,30,30,30	0
86	OHX	1	3907	7/7	0.93	0.16	71,71,71,71	3
85	MG	5	3492	1/1	0.93	0.22	30,30,30,30	0
85	MG	L7	303	1/1	0.93	0.13	50,50,50,50	0
85	MG	5	3691	1/1	0.93	0.23	38,38,38,38	0
86	OHX	5	4013	7/7	0.93	0.11	119,119,119,119	4
85	MG	m7	202	1/1	0.93	0.34	33,33,33,33	0
85	MG	1	3740	1/1	0.93	0.15	62,62,62,62	0
85	MG	5	3694	1/1	0.93	0.17	55,55,55,55	0
86	OHX	1	3925	7/7	0.93	0.11	96,96,96,96	5
85	MG	6	1976	1/1	0.93	0.07	32,32,32,32	0
85	MG	o4	201	1/1	0.93	0.39	53,53,53,53	0
85	MG	6	1977	1/1	0.93	0.11	57,57,57,57	0
85	MG	1	3691	1/1	0.93	0.18	64,64,64,64	0
85	MG	1	3651	1/1	0.93	0.19	49,49,49,49	0
86	OHX	2	2022	7/7	0.93	0.18	78,78,78,78	4
86	OHX	3	218	7/7	0.93	0.16	54,54,54,54	5
86	OHX	5	4042	7/7	0.93	0.15	43,43,43,43	3
86	OHX	2	2035	7/7	0.93	0.11	116,116,116,116	5
85	MG	1	3442	1/1	0.93	0.25	52,52,52,52	0
86	OHX	1	3953	7/7	0.93	0.12	58,58,58,58	2
86	OHX	2	2043	7/7	0.93	0.14	100,100,100,100	4
86	OHX	1	3958	7/7	0.93	0.14	45,45,45,45	4
86	OHX	2	2047	7/7	0.93	0.15	80,80,80,80	4
85	MG	5	3706	1/1	0.93	0.24	32,32,32,32	0
85	MG	5	3425	1/1	0.93	0.15	41,41,41,41	0
86	OHX	2	2054	7/7	0.93	0.17	103,103,103,103	5

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3967	7/7	0.93	0.09	82,82,82,82	3
86	OHX	2	2057	7/7	0.93	0.10	79,79,79,79	1
86	OHX	M8	201	7/7	0.93	0.14	47,47,47,47	3
86	OHX	5	4063	7/7	0.93	0.15	39,39,39,39	3
85	MG	1	3654	1/1	0.93	0.21	39,39,39,39	0
85	MG	1	3745	1/1	0.93	0.13	53,53,53,53	0
85	MG	5	3711	1/1	0.93	0.20	32,32,32,32	0
86	OHX	5	4074	7/7	0.93	0.14	77,77,77,77	6
85	MG	1	3747	1/1	0.93	0.11	48,48,48,48	0
86	OHX	2	2068	7/7	0.93	0.16	103,103,103,103	7
86	OHX	6	2043	7/7	0.93	0.17	90,90,90,90	5
86	OHX	6	2051	7/7	0.93	0.12	131,131,131,131	5
85	MG	5	3604	1/1	0.93	0.21	33,33,33,33	0
86	OHX	6	2073	7/7	0.93	0.18	69,69,69,69	5
86	OHX	6	2077	7/7	0.93	0.17	98,98,98,98	5
86	OHX	6	2078	7/7	0.93	0.15	60,60,60,60	5
86	OHX	2	2072	7/7	0.93	0.08	187,187,187,187	7
85	MG	2	1903	1/1	0.93	0.22	43,43,43,43	0
85	MG	5	3607	1/1	0.93	0.15	36,36,36,36	0
85	MG	1	3591	1/1	0.93	0.39	53,53,53,53	0
85	MG	5	3610	1/1	0.93	0.16	49,49,49,49	0
85	MG	5	3720	1/1	0.93	0.23	34,34,34,34	0
86	OHX	6	2092	7/7	0.93	0.23	69,69,69,69	4
85	MG	5	3721	1/1	0.93	0.25	36,36,36,36	0
85	MG	1	3699	1/1	0.93	0.16	49,49,49,49	0
85	MG	1	3554	1/1	0.93	0.28	37,37,37,37	0
85	MG	1	3416	1/1	0.93	0.29	43,43,43,43	0
86	OHX	2	2089	7/7	0.93	0.11	116,116,116,116	7
86	OHX	1	3999	7/7	0.93	0.08	215,215,215,215	2
86	OHX	5	4106	7/7	0.93	0.14	32,32,32,32	4
86	OHX	2	2090	7/7	0.93	0.11	94,94,94,94	6
85	MG	1	3757	1/1	0.93	0.19	55,55,55,55	0
86	OHX	5	4110	7/7	0.93	0.11	133,133,133,133	5
86	OHX	1	4003	7/7	0.93	0.13	63,63,63,63	3
86	OHX	6	2117	7/7	0.93	0.10	65,65,65,65	3
86	OHX	5	4114	7/7	0.93	0.11	55,55,55,55	4
85	MG	5	3731	1/1	0.93	0.31	55,55,55,55	0
86	OHX	1	4005	7/7	0.93	0.18	40,40,40,40	4
85	MG	1	3596	1/1	0.93	0.28	46,46,46,46	0
85	MG	6	1991	1/1	0.93	0.11	77,77,77,77	0
86	OHX	1	4011	7/7	0.93	0.09	62,62,62,62	3
85	MG	1	3759	1/1	0.93	0.10	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3738	1/1	0.93	0.08	42,42,42,42	0
86	OHX	1	4014	7/7	0.93	0.09	60,60,60,60	3
85	MG	1	3431	1/1	0.93	0.09	47,47,47,47	0
86	OHX	1	4017	7/7	0.93	0.09	46,46,46,46	2
85	MG	1	3509	1/1	0.93	0.28	33,33,33,33	0
86	OHX	5	4129	7/7	0.93	0.19	37,37,37,37	3
85	MG	5	3744	1/1	0.93	0.25	57,57,57,57	0
85	MG	1	3626	1/1	0.93	0.22	46,46,46,46	0
85	MG	5	3520	1/1	0.93	0.26	30,30,30,30	0
85	MG	5	3627	1/1	0.93	0.24	47,47,47,47	0
85	MG	5	3449	1/1	0.93	0.11	32,32,32,32	0
86	OHX	6	2140	7/7	0.93	0.10	74,74,74,74	6
85	MG	5	3524	1/1	0.93	0.25	48,48,48,48	0
86	OHX	6	2144	7/7	0.93	0.13	85,85,85,85	7
86	OHX	5	4138	7/7	0.93	0.20	44,44,44,44	5
85	MG	1	3541	1/1	0.93	0.32	28,28,28,28	0
85	MG	5	3452	1/1	0.93	0.24	29,29,29,29	0
85	MG	5	3453	1/1	0.93	0.19	33,33,33,33	0
85	MG	6	1952	1/1	0.93	0.51	53,53,53,53	0
86	OHX	2	2118	7/7	0.93	0.09	143,143,143,143	7
85	MG	5	3760	1/1	0.93	0.07	53,53,53,53	0
85	MG	1	3628	1/1	0.93	0.21	41,41,41,41	0
85	MG	5	3635	1/1	0.93	0.07	50,50,50,50	0
85	MG	5	3537	1/1	0.93	0.25	26,26,26,26	0
85	MG	1	3579	1/1	0.93	0.10	35,35,35,35	0
85	MG	5	3459	1/1	0.93	0.20	34,34,34,34	0
85	MG	1	3716	1/1	0.93	0.07	65,65,65,65	0
85	MG	5	3780	1/1	0.93	0.16	30,30,30,30	0
86	OHX	2	2127	7/7	0.93	0.10	128,128,128,128	7
85	MG	1	3601	1/1	0.93	0.15	72,72,72,72	0
85	MG	1	3559	1/1	0.93	0.28	22,22,22,22	0
85	MG	6	2010	1/1	0.93	0.19	53,53,53,53	0
85	MG	5	3647	1/1	0.93	0.17	55,55,55,55	0
86	OHX	2	2132	7/7	0.93	0.13	87,87,87,87	3
85	MG	1	3634	1/1	0.93	0.28	41,41,41,41	0
85	MG	1	3498	1/1	0.93	0.32	45,45,45,45	0
85	MG	5	3650	1/1	0.93	0.34	29,29,29,29	0
85	MG	1	3636	1/1	0.93	0.35	53,53,53,53	0
85	MG	1	3637	1/1	0.93	0.36	46,46,46,46	0
86	OHX	6	2172	7/7	0.93	0.14	69,69,69,69	3
85	MG	1	3725	1/1	0.93	0.12	38,38,38,38	0
85	MG	5	3796	1/1	0.93	0.21	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3530	1/1	0.93	0.27	41,41,41,41	0
85	MG	5	3554	1/1	0.93	0.28	32,32,32,32	0
85	MG	6	1965	1/1	0.93	0.10	48,48,48,48	0
85	MG	5	3662	1/1	0.93	0.25	42,42,42,42	0
85	MG	5	3556	1/1	0.93	0.22	33,33,33,33	0
85	MG	5	3804	1/1	0.93	0.28	49,49,49,49	0
85	MG	1	3459	1/1	0.93	0.24	60,60,60,60	0
85	MG	5	3558	1/1	0.93	0.31	31,31,31,31	0
85	MG	5	3561	1/1	0.93	0.33	26,26,26,26	0
85	MG	1	3412	1/1	0.93	0.10	68,68,68,68	0
86	OHX	s9	201	7/7	0.93	0.15	71,71,71,71	5
85	MG	5	3816	1/1	0.93	0.20	39,39,39,39	0
86	OHX	c5	201	7/7	0.93	0.07	129,129,129,129	6
85	MG	1	3503	1/1	0.93	0.30	37,37,37,37	0
85	MG	7	205	1/1	0.93	0.34	26,26,26,26	0
86	OHX	d9	102	7/7	0.93	0.17	106,106,106,106	6
85	MG	5	3671	1/1	0.93	0.09	84,84,84,84	0
86	OHX	5	3876	7/7	0.93	0.20	43,43,43,43	3
86	OHX	5	3889	7/7	0.93	0.27	42,42,42,42	3
85	MG	1	3646	1/1	0.93	0.10	39,39,39,39	0
86	OHX	C5	201	7/7	0.93	0.08	122,122,122,122	7
85	MG	1	3737	1/1	0.93	0.26	63,63,63,63	0
86	OHX	SR	401	7/7	0.93	0.09	144,144,144,144	6
86	OHX	6	2113	7/7	0.94	0.11	67,67,67,67	3
85	MG	1	3562	1/1	0.94	0.34	33,33,33,33	0
86	OHX	2	2094	7/7	0.94	0.17	87,87,87,87	5
86	OHX	5	4036	7/7	0.94	0.17	38,38,38,38	5
86	OHX	5	4038	7/7	0.94	0.12	106,106,106,106	4
86	OHX	5	4039	7/7	0.94	0.17	72,72,72,72	4
85	MG	5	3660	1/1	0.94	0.17	46,46,46,46	0
85	MG	5	3456	1/1	0.94	0.18	31,31,31,31	0
85	MG	7	203	1/1	0.94	0.29	54,54,54,54	0
85	MG	5	3418	1/1	0.94	0.19	36,36,36,36	0
86	OHX	2	2102	7/7	0.94	0.10	118,118,118,118	5
85	MG	1	3563	1/1	0.94	0.14	41,41,41,41	0
86	OHX	1	3932	7/7	0.94	0.17	57,57,57,57	5
86	OHX	5	4053	7/7	0.94	0.08	65,65,65,65	5
86	OHX	1	3933	7/7	0.94	0.09	91,91,91,91	4
86	OHX	1	3938	7/7	0.94	0.16	53,53,53,53	3
86	OHX	1	4072	7/7	0.94	0.28	47,47,47,47	3
85	MG	L2	301	1/1	0.94	0.16	37,37,37,37	0
86	OHX	1	3945	7/7	0.94	0.18	57,57,57,57	5

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	7	211	1/1	0.94	0.07	57,57,57,57	0
85	MG	5	3606	1/1	0.94	0.07	39,39,39,39	1
86	OHX	2	2108	7/7	0.94	0.12	79,79,79,79	5
86	OHX	5	4067	7/7	0.94	0.16	34,34,34,34	4
85	MG	5	3550	1/1	0.94	0.37	44,44,44,44	0
86	OHX	6	2139	7/7	0.94	0.10	86,86,86,86	3
85	MG	5	3737	1/1	0.94	0.17	40,40,40,40	0
86	OHX	5	4073	7/7	0.94	0.15	44,44,44,44	4
86	OHX	6	2142	7/7	0.94	0.14	95,95,95,95	7
85	MG	5	3668	1/1	0.94	0.07	33,33,33,33	0
86	OHX	5	4077	7/7	0.94	0.18	32,32,32,32	3
86	OHX	1	3956	7/7	0.94	0.12	57,57,57,57	5
85	MG	8	204	1/1	0.94	0.31	44,44,44,44	0
86	OHX	2	2113	7/7	0.94	0.08	152,152,152,152	7
85	MG	1	3643	1/1	0.94	0.22	38,38,38,38	0
85	MG	5	3741	1/1	0.94	0.14	66,66,66,66	0
85	MG	5	3742	1/1	0.94	0.11	31,31,31,31	1
86	OHX	6	2151	7/7	0.94	0.12	65,65,65,65	4
85	MG	1	3499	1/1	0.94	0.21	37,37,37,37	0
85	MG	5	3611	1/1	0.94	0.12	38,38,38,38	0
85	MG	5	3505	1/1	0.94	0.41	25,25,25,25	0
85	MG	1	3605	1/1	0.94	0.18	44,44,44,44	0
85	MG	M5	301	1/1	0.94	0.17	42,42,42,42	0
85	MG	6	1973	1/1	0.94	0.42	51,51,51,51	0
86	OHX	5	4093	7/7	0.94	0.14	55,55,55,55	6
85	MG	1	3730	1/1	0.94	0.12	36,36,36,36	0
85	MG	5	3751	1/1	0.94	0.30	53,53,53,53	0
85	MG	5	3678	1/1	0.94	0.27	37,37,37,37	0
85	MG	m5	303	1/1	0.94	0.21	67,67,67,67	0
85	MG	5	3755	1/1	0.94	0.23	55,55,55,55	0
86	OHX	1	3984	7/7	0.94	0.08	127,127,127,127	7
86	OHX	1	3985	7/7	0.94	0.17	38,38,38,38	2
85	MG	1	3731	1/1	0.94	0.14	57,57,57,57	0
85	MG	5	3563	1/1	0.94	0.32	44,44,44,44	0
85	MG	1	3606	1/1	0.94	0.17	43,43,43,43	0
85	MG	n8	201	1/1	0.94	0.18	37,37,37,37	0
85	MG	n8	202	1/1	0.94	0.23	50,50,50,50	0
85	MG	5	3622	1/1	0.94	0.18	62,62,62,62	0
85	MG	1	3461	1/1	0.94	0.15	57,57,57,57	0
85	MG	5	3765	1/1	0.94	0.13	39,39,39,39	0
85	MG	5	3766	1/1	0.94	0.08	27,27,27,27	0
86	OHX	2	2010	7/7	0.94	0.15	101,101,101,101	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	3	211	7/7	0.94	0.15	64,64,64,64	3
85	MG	5	3767	1/1	0.94	0.13	43,43,43,43	0
85	MG	5	3471	1/1	0.94	0.16	51,51,51,51	0
86	OHX	2	2034	7/7	0.94	0.13	119,119,119,119	4
86	OHX	6	2180	7/7	0.94	0.12	97,97,97,97	6
85	MG	6	1920	1/1	0.94	0.31	46,46,46,46	0
85	MG	5	3568	1/1	0.94	0.26	22,22,22,22	0
85	MG	1	3708	1/1	0.94	0.11	42,42,42,42	0
86	OHX	2	2044	7/7	0.94	0.13	98,98,98,98	6
86	OHX	s4	602	7/7	0.94	0.11	76,76,76,76	3
85	MG	1	3404	1/1	0.94	0.23	57,57,57,57	0
85	MG	5	3438	1/1	0.94	0.29	39,39,39,39	0
86	OHX	2	2050	7/7	0.94	0.11	129,129,129,129	6
86	OHX	2	2051	7/7	0.94	0.15	101,101,101,101	5
86	OHX	2	2052	7/7	0.94	0.16	90,90,90,90	5
86	OHX	c8	203	7/7	0.94	0.14	99,99,99,99	5
85	MG	5	3572	1/1	0.94	0.22	21,21,21,21	0
86	OHX	L4	401	7/7	0.94	0.08	67,67,67,67	7
85	MG	1	3569	1/1	0.94	0.27	39,39,39,39	0
86	OHX	5	3871	7/7	0.94	0.17	72,72,72,72	2
86	OHX	2	2055	7/7	0.94	0.10	63,63,63,63	5
85	MG	5	3576	1/1	0.94	0.16	28,28,28,28	0
86	OHX	5	3909	7/7	0.94	0.12	77,77,77,77	4
86	OHX	5	3910	7/7	0.94	0.17	57,57,57,57	3
86	OHX	M7	205	7/7	0.94	0.13	57,57,57,57	5
85	MG	6	1924	1/1	0.94	0.34	48,48,48,48	0
86	OHX	5	3919	7/7	0.94	0.18	73,73,73,73	3
85	MG	5	3521	1/1	0.94	0.32	44,44,44,44	0
86	OHX	5	4151	7/7	0.94	0.12	53,53,53,53	4
85	MG	5	3579	1/1	0.94	0.15	17,17,17,17	0
85	MG	1	3611	1/1	0.94	0.10	41,41,41,41	0
86	OHX	1	3825	7/7	0.94	0.18	91,91,91,91	5
86	OHX	5	3942	7/7	0.94	0.16	50,50,50,50	5
86	OHX	5	4156	7/7	0.94	0.14	49,49,49,49	6
86	OHX	2	2067	7/7	0.94	0.08	132,132,132,132	4
86	OHX	6	2029	7/7	0.94	0.15	68,68,68,68	2
85	MG	1	3547	1/1	0.94	0.32	32,32,32,32	0
86	OHX	6	2050	7/7	0.94	0.12	87,87,87,87	5
85	MG	1	3440	1/1	0.94	0.40	49,49,49,49	0
86	OHX	6	2066	7/7	0.94	0.10	162,162,162,162	3
86	OHX	5	3969	7/7	0.94	0.14	105,105,105,105	5
85	MG	2	1982	1/1	0.94	0.24	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2072	7/7	0.94	0.19	76,76,76,76	3
86	OHX	5	4167	7/7	0.94	0.16	38,38,38,38	3
86	OHX	5	3972	7/7	0.94	0.13	89,89,89,89	1
85	MG	5	3795	1/1	0.94	0.10	41,41,41,41	0
86	OHX	5	3976	7/7	0.94	0.10	115,115,115,115	3
85	MG	5	3486	1/1	0.94	0.18	51,51,51,51	0
85	MG	5	3447	1/1	0.94	0.17	31,31,31,31	0
85	MG	5	3489	1/1	0.94	0.23	39,39,39,39	0
86	OHX	5	3981	7/7	0.94	0.11	69,69,69,69	3
85	MG	1	3686	1/1	0.94	0.16	35,35,35,35	0
86	OHX	1	4041	7/7	0.94	0.16	46,46,46,46	4
86	OHX	8	219	7/7	0.94	0.13	80,80,80,80	2
85	MG	1	3615	1/1	0.94	0.27	68,68,68,68	0
86	OHX	5	3989	7/7	0.94	0.12	158,158,158,158	5
86	OHX	8	224	7/7	0.94	0.14	95,95,95,95	7
86	OHX	1	3897	7/7	0.94	0.16	49,49,49,49	5
86	OHX	6	2090	7/7	0.94	0.12	91,91,91,91	7
86	OHX	5	3994	7/7	0.94	0.11	42,42,42,42	4
86	OHX	1	3898	7/7	0.94	0.17	89,89,89,89	5
86	OHX	2	2084	7/7	0.94	0.16	95,95,95,95	5
85	MG	1	3511	1/1	0.94	0.33	36,36,36,36	0
86	OHX	14	403	7/7	0.94	0.11	51,51,51,51	7
86	OHX	1	4048	7/7	0.94	0.11	116,116,116,116	5
86	OHX	15	303	7/7	0.94	0.12	90,90,90,90	6
86	OHX	6	2098	7/7	0.94	0.17	87,87,87,87	5
86	OHX	1	3903	7/7	0.94	0.16	53,53,53,53	3
86	OHX	m0	303	7/7	0.94	0.15	96,96,96,96	5
85	MG	1	3638	1/1	0.94	0.27	48,48,48,48	0
86	OHX	6	2104	7/7	0.94	0.12	91,91,91,91	5
86	OHX	m7	204	7/7	0.94	0.12	47,47,47,47	5
86	OHX	6	2106	7/7	0.94	0.12	85,85,85,85	4
85	MG	1	3553	1/1	0.94	0.23	24,24,24,24	0
86	OHX	o3	202	7/7	0.94	0.16	52,52,52,52	3
85	MG	1	3666	1/1	0.94	0.29	65,65,65,65	0
85	MG	5	3544	1/1	0.94	0.33	48,48,48,48	0
85	MG	5	3810	1/1	0.94	0.12	50,50,50,50	0
86	OHX	5	3985	7/7	0.95	0.11	55,55,55,55	2
85	MG	o2	201	1/1	0.95	0.15	35,35,35,35	1
86	OHX	6	2039	7/7	0.95	0.13	126,126,126,126	5
85	MG	1	3702	1/1	0.95	0.14	45,45,45,45	0
85	MG	1	3704	1/1	0.95	0.15	59,59,59,59	0
85	MG	5	3761	1/1	0.95	0.18	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2057	7/7	0.95	0.14	58,58,58,58	2
86	OHX	6	2060	7/7	0.95	0.09	96,96,96,96	1
86	OHX	5	3997	7/7	0.95	0.11	62,62,62,62	5
86	OHX	5	3999	7/7	0.95	0.21	38,38,38,38	5
86	OHX	5	4001	7/7	0.95	0.18	41,41,41,41	4
85	MG	q2	201	1/1	0.95	0.06	43,43,43,43	1
86	OHX	2	2136	7/7	0.95	0.17	74,74,74,74	6
85	MG	B	102	1/1	0.95	0.23	38,38,38,38	0
86	OHX	5	4009	7/7	0.95	0.23	41,41,41,41	3
85	MG	1	3738	1/1	0.95	0.13	41,41,41,41	0
86	OHX	6	2074	7/7	0.95	0.11	70,70,70,70	2
85	MG	5	3764	1/1	0.95	0.17	43,43,43,43	0
85	MG	5	3562	1/1	0.95	0.22	27,27,27,27	0
86	OHX	2	2019	7/7	0.95	0.13	81,81,81,81	3
86	OHX	5	4020	7/7	0.95	0.18	47,47,47,47	1
86	OHX	5	4022	7/7	0.95	0.16	37,37,37,37	1
86	OHX	6	2081	7/7	0.95	0.11	74,74,74,74	6
86	OHX	6	2082	7/7	0.95	0.12	99,99,99,99	5
86	OHX	5	4027	7/7	0.95	0.14	49,49,49,49	3
86	OHX	5	4028	7/7	0.95	0.15	72,72,72,72	4
85	MG	5	3404	1/1	0.95	0.24	33,33,33,33	0
86	OHX	2	2027	7/7	0.95	0.14	75,75,75,75	4
86	OHX	2	2030	7/7	0.95	0.10	98,98,98,98	5
86	OHX	2	2032	7/7	0.95	0.14	102,102,102,102	6
85	MG	4	201	1/1	0.95	0.17	36,36,36,36	0
85	MG	5	3768	1/1	0.95	0.18	34,34,34,34	0
86	OHX	5	4037	7/7	0.95	0.10	93,93,93,93	5
85	MG	1	3677	1/1	0.95	0.12	46,46,46,46	0
86	OHX	6	2094	7/7	0.95	0.15	109,109,109,109	6
86	OHX	1	4022	7/7	0.95	0.12	71,71,71,71	6
86	OHX	2	2037	7/7	0.95	0.17	73,73,73,73	4
86	OHX	1	4024	7/7	0.95	0.14	42,42,42,42	3
86	OHX	2	2040	7/7	0.95	0.15	89,89,89,89	3
85	MG	1	3550	1/1	0.95	0.24	33,33,33,33	0
86	OHX	5	4047	7/7	0.95	0.10	28,28,28,28	1
85	MG	5	3689	1/1	0.95	0.28	40,40,40,40	0
86	OHX	6	2105	7/7	0.95	0.10	81,81,81,81	4
86	OHX	5	4051	7/7	0.95	0.13	64,64,64,64	6
85	MG	5	3774	1/1	0.95	0.30	55,55,55,55	0
86	OHX	2	2048	7/7	0.95	0.08	141,141,141,141	5
86	OHX	S9	201	7/7	0.95	0.13	94,94,94,94	6
85	MG	1	3468	1/1	0.95	0.27	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3489	1/1	0.95	0.22	67,67,67,67	0
85	MG	1	3500	1/1	0.95	0.33	30,30,30,30	0
85	MG	1	3527	1/1	0.95	0.25	31,31,31,31	0
86	OHX	6	2115	7/7	0.95	0.11	58,58,58,58	2
86	OHX	6	2116	7/7	0.95	0.14	61,61,61,61	2
86	OHX	5	4064	7/7	0.95	0.11	52,52,52,52	3
86	OHX	1	3807	7/7	0.95	0.21	73,73,73,73	2
86	OHX	1	4037	7/7	0.95	0.15	84,84,84,84	7
86	OHX	6	2119	7/7	0.95	0.16	60,60,60,60	3
86	OHX	5	4071	7/7	0.95	0.10	45,45,45,45	3
85	MG	2	1990	1/1	0.95	0.17	49,49,49,49	0
86	OHX	1	3843	7/7	0.95	0.15	55,55,55,55	2
85	MG	4	209	1/1	0.95	0.22	51,51,51,51	0
85	MG	5	3786	1/1	0.95	0.12	35,35,35,35	0
86	OHX	5	4076	7/7	0.95	0.08	43,43,43,43	3
86	OHX	1	3859	7/7	0.95	0.17	53,53,53,53	2
86	OHX	1	3862	7/7	0.95	0.10	83,83,83,83	3
86	OHX	1	3866	7/7	0.95	0.14	69,69,69,69	3
86	OHX	6	2128	7/7	0.95	0.14	53,53,53,53	4
86	OHX	6	2129	7/7	0.95	0.11	58,58,58,58	5
86	OHX	2	2056	7/7	0.95	0.17	99,99,99,99	4
86	OHX	1	3870	7/7	0.95	0.17	67,67,67,67	3
86	OHX	5	4084	7/7	0.95	0.20	35,35,35,35	6
85	MG	5	3698	1/1	0.95	0.24	42,42,42,42	0
85	MG	5	3573	1/1	0.95	0.35	48,48,48,48	0
86	OHX	6	2134	7/7	0.95	0.07	163,163,163,163	7
86	OHX	1	4051	7/7	0.95	0.13	58,58,58,58	3
86	OHX	2	2060	7/7	0.95	0.14	89,89,89,89	6
86	OHX	1	4054	7/7	0.95	0.20	77,77,77,77	6
85	MG	5	3702	1/1	0.95	0.12	54,54,54,54	0
85	MG	5	3574	1/1	0.95	0.25	37,37,37,37	0
86	OHX	5	4094	7/7	0.95	0.16	36,36,36,36	3
85	MG	5	3704	1/1	0.95	0.25	2,2,2,2	0
86	OHX	5	4096	7/7	0.95	0.07	119,119,119,119	7
86	OHX	1	3887	7/7	0.95	0.10	131,131,131,131	5
86	OHX	1	3888	7/7	0.95	0.15	71,71,71,71	3
86	OHX	1	3890	7/7	0.95	0.12	48,48,48,48	3
85	MG	5	3415	1/1	0.95	0.28	44,44,44,44	0
86	OHX	5	4101	7/7	0.95	0.11	69,69,69,69	3
86	OHX	5	4103	7/7	0.95	0.15	40,40,40,40	5
86	OHX	1	3893	7/7	0.95	0.10	155,155,155,155	6
86	OHX	6	2147	7/7	0.95	0.13	64,64,64,64	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3416	1/1	0.95	0.26	31,31,31,31	0
85	MG	5	3637	1/1	0.95	0.09	36,36,36,36	0
86	OHX	2	2070	7/7	0.95	0.09	108,108,108,108	5
86	OHX	5	4109	7/7	0.95	0.15	53,53,53,53	5
86	OHX	2	2071	7/7	0.95	0.10	72,72,72,72	6
86	OHX	1	4068	7/7	0.95	0.11	39,39,39,39	3
86	OHX	1	3902	7/7	0.95	0.22	53,53,53,53	3
86	OHX	5	4113	7/7	0.95	0.15	52,52,52,52	6
85	MG	1	3617	1/1	0.95	0.18	41,41,41,41	0
86	OHX	1	4071	7/7	0.95	0.19	42,42,42,42	3
85	MG	1	3687	1/1	0.95	0.35	46,46,46,46	0
86	OHX	2	2075	7/7	0.95	0.11	80,80,80,80	6
86	OHX	5	4118	7/7	0.95	0.20	49,49,49,49	4
86	OHX	1	3906	7/7	0.95	0.15	65,65,65,65	4
85	MG	5	3419	1/1	0.95	0.12	36,36,36,36	0
86	OHX	1	4076	7/7	0.95	0.24	45,45,45,45	5
85	MG	4	213	1/1	0.95	0.23	64,64,64,64	0
85	MG	5	3581	1/1	0.95	0.29	24,24,24,24	0
85	MG	6	1951	1/1	0.95	0.43	43,43,43,43	0
85	MG	5	3645	1/1	0.95	0.24	31,31,31,31	0
85	MG	5	3717	1/1	0.95	0.31	16,16,16,16	0
86	OHX	1	3919	7/7	0.95	0.10	106,106,106,106	3
86	OHX	1	3920	7/7	0.95	0.14	43,43,43,43	3
85	MG	1	3749	1/1	0.95	0.20	17,17,17,17	0
85	MG	1	3750	1/1	0.95	0.27	48,48,48,48	0
86	OHX	6	2170	7/7	0.95	0.09	83,83,83,83	7
85	MG	1	3688	1/1	0.95	0.23	39,39,39,39	0
85	MG	5	3814	1/1	0.95	0.23	42,42,42,42	0
85	MG	L3	401	1/1	0.95	0.20	41,41,41,41	0
85	MG	1	3406	1/1	0.95	0.15	44,44,44,44	0
86	OHX	1	4090	7/7	0.95	0.15	47,47,47,47	4
85	MG	5	3723	1/1	0.95	0.28	52,52,52,52	0
86	OHX	1	3935	7/7	0.95	0.11	71,71,71,71	2
86	OHX	1	3937	7/7	0.95	0.12	110,110,110,110	6
85	MG	5	3532	1/1	0.95	0.22	35,35,35,35	0
85	MG	7	204	1/1	0.95	0.23	44,44,44,44	0
85	MG	1	3514	1/1	0.95	0.18	35,35,35,35	0
86	OHX	5	4145	7/7	0.95	0.14	70,70,70,70	7
85	MG	7	208	1/1	0.95	0.30	45,45,45,45	0
86	OHX	2	2099	7/7	0.95	0.08	185,185,185,185	7
86	OHX	2	2100	7/7	0.95	0.11	83,83,83,83	4
85	MG	6	1958	1/1	0.95	0.21	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3728	1/1	0.95	0.12	44,44,44,44	0
86	OHX	1	3954	7/7	0.95	0.10	122,122,122,122	3
85	MG	5	3730	1/1	0.95	0.07	41,41,41,41	0
85	MG	5	3654	1/1	0.95	0.30	31,31,31,31	0
85	MG	5	3430	1/1	0.95	0.21	36,36,36,36	0
86	OHX	1	3959	7/7	0.95	0.09	112,112,112,112	3
86	OHX	1	3961	7/7	0.95	0.17	45,45,45,45	5
86	OHX	2	2106	7/7	0.95	0.11	78,78,78,78	3
85	MG	1	3640	1/1	0.95	0.21	62,62,62,62	0
85	MG	1	3484	1/1	0.95	0.17	52,52,52,52	0
85	MG	M5	302	1/1	0.95	0.22	47,47,47,47	0
85	MG	5	3487	1/1	0.95	0.17	37,37,37,37	0
86	OHX	5	4163	7/7	0.95	0.14	36,36,36,36	4
86	OHX	3	212	7/7	0.95	0.14	86,86,86,86	3
85	MG	5	3599	1/1	0.95	0.23	39,39,39,39	0
86	OHX	5	3914	7/7	0.95	0.15	74,74,74,74	4
86	OHX	1	3969	7/7	0.95	0.13	65,65,65,65	4
85	MG	1	3438	1/1	0.95	0.09	33,33,33,33	0
86	OHX	3	216	7/7	0.95	0.14	49,49,49,49	5
86	OHX	5	4170	7/7	0.95	0.17	71,71,71,71	3
86	OHX	5	3922	7/7	0.95	0.09	119,119,119,119	6
85	MG	1	3494	1/1	0.95	0.17	42,42,42,42	0
86	OHX	5	3928	7/7	0.95	0.09	146,146,146,146	3
86	OHX	5	3932	7/7	0.95	0.10	139,139,139,139	5
85	MG	5	3603	1/1	0.95	0.21	50,50,50,50	0
85	MG	l3	402	1/1	0.95	0.16	39,39,39,39	1
86	OHX	8	215	7/7	0.95	0.14	60,60,60,60	3
86	OHX	5	3939	7/7	0.95	0.13	92,92,92,92	2
86	OHX	5	3940	7/7	0.95	0.13	62,62,62,62	2
86	OHX	8	221	7/7	0.95	0.13	62,62,62,62	3
85	MG	1	3625	1/1	0.95	0.12	41,41,41,41	0
86	OHX	4	227	7/7	0.95	0.12	103,103,103,103	6
86	OHX	5	3945	7/7	0.95	0.14	46,46,46,46	3
86	OHX	1	3977	7/7	0.95	0.09	72,72,72,72	7
85	MG	5	3745	1/1	0.95	0.27	34,34,34,34	0
85	MG	1	3456	1/1	0.95	0.18	32,32,32,32	0
86	OHX	5	3951	7/7	0.95	0.17	67,67,67,67	5
86	OHX	5	3952	7/7	0.95	0.10	100,100,100,100	2
85	MG	1	3697	1/1	0.95	0.10	42,42,42,42	0
85	MG	1	3457	1/1	0.95	0.17	32,32,32,32	0
85	MG	m3	201	1/1	0.95	0.17	40,40,40,40	0
85	MG	6	1968	1/1	0.95	0.18	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	3	203	1/1	0.95	0.26	42,42,42,42	0
85	MG	5	3445	1/1	0.95	0.19	38,38,38,38	0
85	MG	5	3752	1/1	0.95	0.25	40,40,40,40	0
86	OHX	5	3974	7/7	0.95	0.13	53,53,53,53	4
85	MG	s8	302	1/1	0.95	0.32	49,49,49,49	0
85	MG	1	3649	1/1	0.95	0.17	37,37,37,37	0
86	OHX	1	3992	7/7	0.95	0.10	52,52,52,52	3
85	MG	1	3610	1/1	0.95	0.09	45,45,45,45	0
85	MG	5	3615	1/1	0.95	0.29	35,35,35,35	0
86	OHX	1	3996	7/7	0.95	0.12	64,64,64,64	5
85	MG	5	3758	1/1	0.95	0.06	36,36,36,36	0
86	OHX	5	3983	7/7	0.95	0.16	46,46,46,46	3
89	PRO	1	4114	7/8	0.95	0.17	41,41,51,51	0
85	MG	6	1995	1/1	0.96	0.22	47,47,47,47	0
85	MG	1	3705	1/1	0.96	0.16	33,33,33,33	0
86	OHX	1	3829	7/7	0.96	0.16	59,59,59,59	2
86	OHX	1	3834	7/7	0.96	0.13	62,62,62,62	3
86	OHX	5	4056	7/7	0.96	0.14	40,40,40,40	6
86	OHX	1	3997	7/7	0.96	0.12	55,55,55,55	5
86	OHX	5	4058	7/7	0.96	0.32	36,36,36,36	6
86	OHX	3	210	7/7	0.96	0.16	51,51,51,51	5
86	OHX	1	3841	7/7	0.96	0.17	70,70,70,70	3
85	MG	12	301	1/1	0.96	0.24	37,37,37,37	0
86	OHX	1	3848	7/7	0.96	0.13	76,76,76,76	3
86	OHX	1	4001	7/7	0.96	0.11	61,61,61,61	4
85	MG	12	302	1/1	0.96	0.25	45,45,45,45	0
86	OHX	1	3853	7/7	0.96	0.13	54,54,54,54	3
85	MG	4	212	1/1	0.96	0.07	60,60,60,60	0
86	OHX	1	3858	7/7	0.96	0.10	98,98,98,98	4
85	MG	5	3553	1/1	0.96	0.18	26,26,26,26	0
86	OHX	4	222	7/7	0.96	0.09	61,61,61,61	3
86	OHX	2	2080	7/7	0.96	0.15	91,91,91,91	4
85	MG	6	1998	1/1	0.96	0.21	42,42,42,42	0
86	OHX	2	2082	7/7	0.96	0.10	90,90,90,90	5
86	OHX	4	229	7/7	0.96	0.10	60,60,60,60	3
85	MG	6	1999	1/1	0.96	0.29	36,36,36,36	0
85	MG	5	3655	1/1	0.96	0.23	42,42,42,42	0
86	OHX	1	4015	7/7	0.96	0.14	47,47,47,47	2
85	MG	5	3656	1/1	0.96	0.42	41,41,41,41	0
85	MG	1	3633	1/1	0.96	0.11	59,59,59,59	0
85	MG	5	3658	1/1	0.96	0.20	27,27,27,27	0
85	MG	1	3732	1/1	0.96	0.21	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3465	1/1	0.96	0.30	44,44,44,44	0
86	OHX	2	2091	7/7	0.96	0.15	89,89,89,89	5
86	OHX	M5	304	7/7	0.96	0.17	72,72,72,72	4
85	MG	1	3667	1/1	0.96	0.16	58,58,58,58	0
85	MG	5	3511	1/1	0.96	0.22	43,43,43,43	0
85	MG	m7	203	1/1	0.96	0.23	34,34,34,34	0
85	MG	6	1907	1/1	0.96	0.32	51,51,51,51	0
86	OHX	2	2096	7/7	0.96	0.10	108,108,108,108	6
85	MG	1	3648	1/1	0.96	0.11	42,42,42,42	0
85	MG	1	3565	1/1	0.96	0.38	40,40,40,40	0
86	OHX	6	2025	7/7	0.96	0.15	62,62,62,62	2
85	MG	1	3650	1/1	0.96	0.17	47,47,47,47	0
86	OHX	1	3901	7/7	0.96	0.14	62,62,62,62	4
85	MG	6	1911	1/1	0.96	0.35	49,49,49,49	0
86	OHX	5	3869	7/7	0.96	0.14	35,35,35,35	4
86	OHX	6	2044	7/7	0.96	0.10	46,46,46,46	2
86	OHX	5	3874	7/7	0.96	0.14	62,62,62,62	3
86	OHX	5	4102	7/7	0.96	0.09	45,45,45,45	5
86	OHX	6	2045	7/7	0.96	0.15	91,91,91,91	5
85	MG	1	3443	1/1	0.96	0.14	46,46,46,46	0
86	OHX	5	3895	7/7	0.96	0.15	63,63,63,63	3
86	OHX	5	3902	7/7	0.96	0.13	72,72,72,72	3
85	MG	1	3552	1/1	0.96	0.38	37,37,37,37	0
86	OHX	1	4034	7/7	0.96	0.15	75,75,75,75	3
85	MG	5	3727	1/1	0.96	0.19	44,44,44,44	0
86	OHX	6	2064	7/7	0.96	0.12	98,98,98,98	5
86	OHX	6	2065	7/7	0.96	0.10	138,138,138,138	5
85	MG	s8	301	1/1	0.96	0.12	52,52,52,52	0
86	OHX	6	2067	7/7	0.96	0.10	154,154,154,154	3
85	MG	q3	502	1/1	0.96	0.27	48,48,48,48	0
85	MG	5	3729	1/1	0.96	0.07	47,47,47,47	0
86	OHX	5	3929	7/7	0.96	0.20	41,41,41,41	4
85	MG	1	3623	1/1	0.96	0.17	57,57,57,57	0
86	OHX	1	3913	7/7	0.96	0.06	54,54,54,54	3
86	OHX	6	2076	7/7	0.96	0.10	52,52,52,52	5
86	OHX	5	4120	7/7	0.96	0.15	64,64,64,64	5
86	OHX	2	1999	7/7	0.96	0.11	113,113,113,113	2
86	OHX	1	4043	7/7	0.96	0.10	39,39,39,39	2
86	OHX	2	2004	7/7	0.96	0.11	135,135,135,135	5
86	OHX	2	2007	7/7	0.96	0.13	94,94,94,94	5
86	OHX	1	3918	7/7	0.96	0.10	91,91,91,91	5
85	MG	1	3568	1/1	0.96	0.24	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3522	1/1	0.96	0.31	36,36,36,36	0
86	OHX	1	3922	7/7	0.96	0.10	82,82,82,82	3
86	OHX	2	2016	7/7	0.96	0.12	96,96,96,96	4
86	OHX	2	2017	7/7	0.96	0.14	74,74,74,74	4
86	OHX	5	3955	7/7	0.96	0.09	149,149,149,149	4
85	MG	5	3437	1/1	0.96	0.34	34,34,34,34	0
86	OHX	5	3960	7/7	0.96	0.20	44,44,44,44	3
86	OHX	1	4053	7/7	0.96	0.09	43,43,43,43	3
86	OHX	5	3964	7/7	0.96	0.10	107,107,107,107	2
86	OHX	5	3966	7/7	0.96	0.14	50,50,50,50	4
86	OHX	6	2093	7/7	0.96	0.09	45,45,45,45	2
86	OHX	2	2020	7/7	0.96	0.10	117,117,117,117	3
86	OHX	2	2021	7/7	0.96	0.11	99,99,99,99	5
85	MG	5	3480	1/1	0.96	0.07	47,47,47,47	0
86	OHX	2	2023	7/7	0.96	0.09	106,106,106,106	4
86	OHX	6	2099	7/7	0.96	0.11	81,81,81,81	5
86	OHX	1	3934	7/7	0.96	0.12	54,54,54,54	3
85	MG	5	3736	1/1	0.96	0.17	35,35,35,35	1
86	OHX	1	3936	7/7	0.96	0.16	54,54,54,54	3
86	OHX	2	2029	7/7	0.96	0.14	98,98,98,98	5
85	MG	2	1902	1/1	0.96	0.27	49,49,49,49	0
85	MG	5	3806	1/1	0.96	0.18	37,37,37,37	0
86	OHX	6	2108	7/7	0.96	0.08	109,109,109,109	6
86	OHX	1	3941	7/7	0.96	0.10	51,51,51,51	3
86	OHX	1	3942	7/7	0.96	0.12	94,94,94,94	4
85	MG	1	3718	1/1	0.96	0.20	52,52,52,52	0
85	MG	5	3528	1/1	0.96	0.36	21,21,21,21	0
86	OHX	1	3948	7/7	0.96	0.10	37,37,37,37	2
85	MG	5	3440	1/1	0.96	0.15	36,36,36,36	0
85	MG	d3	201	1/1	0.96	0.17	50,50,50,50	0
86	OHX	2	2039	7/7	0.96	0.14	103,103,103,103	7
85	MG	5	3811	1/1	0.96	0.12	30,30,30,30	0
86	OHX	5	3996	7/7	0.96	0.14	52,52,52,52	3
86	OHX	2	2041	7/7	0.96	0.08	141,141,141,141	6
86	OHX	5	3998	7/7	0.96	0.17	43,43,43,43	5
86	OHX	2	2042	7/7	0.96	0.11	68,68,68,68	5
85	MG	5	3812	1/1	0.96	0.13	32,32,32,32	0
86	OHX	5	4003	7/7	0.96	0.13	54,54,54,54	3
85	MG	5	3813	1/1	0.96	0.19	31,31,31,31	0
86	OHX	2	2045	7/7	0.96	0.12	95,95,95,95	4
86	OHX	6	2124	7/7	0.96	0.09	103,103,103,103	6
86	OHX	2	2046	7/7	0.96	0.14	83,83,83,83	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3962	7/7	0.96	0.12	59,59,59,59	2
86	OHX	5	4012	7/7	0.96	0.15	41,41,41,41	4
86	OHX	7	216	7/7	0.96	0.14	62,62,62,62	3
85	MG	M6	204	1/1	0.96	0.10	37,37,37,37	0
86	OHX	5	4015	7/7	0.96	0.10	36,36,36,36	4
85	MG	5	3533	1/1	0.96	0.33	28,28,28,28	0
85	MG	1	3402	1/1	0.96	0.27	36,36,36,36	0
85	MG	2	1918	1/1	0.96	0.27	68,68,68,68	0
86	OHX	8	217	7/7	0.96	0.09	78,78,78,78	5
85	MG	5	3636	1/1	0.96	0.27	43,43,43,43	0
85	MG	1	3698	1/1	0.96	0.13	42,42,42,42	0
85	MG	M7	204	1/1	0.96	0.10	46,46,46,46	0
86	OHX	5	4025	7/7	0.96	0.14	50,50,50,50	2
85	MG	7	207	1/1	0.96	0.20	55,55,55,55	0
85	MG	1	3593	1/1	0.96	0.25	50,50,50,50	0
86	OHX	1	3972	7/7	0.96	0.10	55,55,55,55	4
86	OHX	5	4029	7/7	0.96	0.09	76,76,76,76	4
85	MG	5	3692	1/1	0.96	0.11	38,38,38,38	0
85	MG	1	3594	1/1	0.96	0.24	48,48,48,48	0
85	MG	1	3682	1/1	0.96	0.14	36,36,36,36	0
86	OHX	2	2059	7/7	0.96	0.13	101,101,101,101	4
86	OHX	6	2141	7/7	0.96	0.07	151,151,151,151	7
86	OHX	5	4035	7/7	0.96	0.13	40,40,40,40	3
85	MG	N8	201	1/1	0.96	0.11	33,33,33,33	0
86	OHX	1	3979	7/7	0.96	0.08	197,197,197,197	5
85	MG	5	3696	1/1	0.96	0.15	45,45,45,45	0
86	OHX	2	2062	7/7	0.96	0.14	109,109,109,109	6
86	OHX	2	2063	7/7	0.96	0.07	153,153,153,153	7
86	OHX	5	4041	7/7	0.96	0.10	73,73,73,73	4
85	MG	N8	202	1/1	0.96	0.32	47,47,47,47	0
85	MG	1	3522	1/1	0.96	0.24	31,31,31,31	0
85	MG	1	3703	1/1	0.96	0.08	40,40,40,40	0
85	MG	5	3701	1/1	0.96	0.15	38,38,38,38	0
85	MG	1	3754	1/1	0.96	0.34	71,71,71,71	0
86	OHX	o7	502	7/7	0.96	0.15	83,83,83,83	4
85	MG	1	3427	1/1	0.96	0.30	42,42,42,42	0
86	OHX	5	4049	7/7	0.96	0.19	37,37,37,37	3
85	MG	8	208	1/1	0.96	0.26	51,51,51,51	0
89	PRO	B	101	7/8	0.96	0.13	32,32,56,56	0
86	OHX	1	3864	7/7	0.97	0.12	104,104,104,104	3
86	OHX	2	2033	7/7	0.97	0.16	78,78,78,78	3
85	MG	5	3762	1/1	0.97	0.29	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3869	7/7	0.97	0.10	92,92,92,92	3
85	MG	1	3510	1/1	0.97	0.15	39,39,39,39	0
85	MG	L7	301	1/1	0.97	0.18	38,38,38,38	0
86	OHX	1	3872	7/7	0.97	0.12	44,44,44,44	4
86	OHX	1	3873	7/7	0.97	0.15	53,53,53,53	5
86	OHX	1	3874	7/7	0.97	0.10	50,50,50,50	3
86	OHX	1	3994	7/7	0.97	0.10	54,54,54,54	5
85	MG	L7	302	1/1	0.97	0.11	50,50,50,50	0
86	OHX	1	3876	7/7	0.97	0.14	41,41,41,41	2
85	MG	1	3408	1/1	0.97	0.19	25,25,25,25	0
86	OHX	5	4044	7/7	0.97	0.11	51,51,51,51	3
86	OHX	1	3879	7/7	0.97	0.15	44,44,44,44	2
86	OHX	1	3881	7/7	0.97	0.12	86,86,86,86	4
86	OHX	1	3882	7/7	0.97	0.12	64,64,64,64	3
85	MG	8	201	1/1	0.97	0.11	43,43,43,43	0
85	MG	1	3685	1/1	0.97	0.17	43,43,43,43	0
86	OHX	1	3885	7/7	0.97	0.13	53,53,53,53	3
85	MG	5	3665	1/1	0.97	0.18	43,43,43,43	0
86	OHX	5	4052	7/7	0.97	0.12	67,67,67,67	5
85	MG	M0	302	1/1	0.97	0.17	50,50,50,50	0
86	OHX	1	4006	7/7	0.97	0.14	48,48,48,48	5
86	OHX	1	4007	7/7	0.97	0.08	43,43,43,43	4
86	OHX	4	217	7/7	0.97	0.12	61,61,61,61	3
86	OHX	4	220	7/7	0.97	0.09	81,81,81,81	2
86	OHX	4	221	7/7	0.97	0.12	84,84,84,84	3
86	OHX	1	4008	7/7	0.97	0.13	47,47,47,47	5
86	OHX	4	223	7/7	0.97	0.09	61,61,61,61	3
86	OHX	4	224	7/7	0.97	0.09	86,86,86,86	3
86	OHX	4	225	7/7	0.97	0.12	44,44,44,44	3
85	MG	1	3722	1/1	0.97	0.05	43,43,43,43	0
86	OHX	1	3889	7/7	0.97	0.12	48,48,48,48	2
86	OHX	5	4066	7/7	0.97	0.12	38,38,38,38	4
85	MG	5	3529	1/1	0.97	0.23	45,45,45,45	0
86	OHX	5	4068	7/7	0.97	0.10	49,49,49,49	3
85	MG	5	3414	1/1	0.97	0.16	33,33,33,33	0
86	OHX	1	3892	7/7	0.97	0.11	65,65,65,65	3
85	MG	5	3775	1/1	0.97	0.09	40,40,40,40	0
86	OHX	1	3895	7/7	0.97	0.12	57,57,57,57	4
86	OHX	1	3896	7/7	0.97	0.18	49,49,49,49	2
86	OHX	L3	403	7/7	0.97	0.10	72,72,72,72	5
85	MG	5	3450	1/1	0.97	0.31	45,45,45,45	0
85	MG	2	1984	1/1	0.97	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
85	MG	5	3779	1/1	0.97	0.23	35,35,35,35	0
85	MG	5	3626	1/1	0.97	0.24	42,42,42,42	0
85	MG	13	401	1/1	0.97	0.31	27,27,27,27	0
85	MG	6	2001	1/1	0.97	0.10	48,48,48,48	0
86	OHX	M6	203	7/7	0.97	0.15	43,43,43,43	2
85	MG	1	3746	1/1	0.97	0.23	43,43,43,43	0
85	MG	5	3536	1/1	0.97	0.38	29,29,29,29	0
85	MG	5	3785	1/1	0.97	0.16	57,57,57,57	0
85	MG	6	1942	1/1	0.97	0.41	43,43,43,43	0
86	OHX	O1	201	7/7	0.97	0.14	93,93,93,93	3
85	MG	5	3787	1/1	0.97	0.06	33,33,33,33	0
86	OHX	5	4088	7/7	0.97	0.10	39,39,39,39	4
85	MG	5	3583	1/1	0.97	0.43	23,23,23,23	0
86	OHX	O7	104	7/7	0.97	0.12	78,78,78,78	4
86	OHX	1	3909	7/7	0.97	0.12	73,73,73,73	4
86	OHX	1	3910	7/7	0.97	0.10	81,81,81,81	4
86	OHX	1	3911	7/7	0.97	0.12	61,61,61,61	3
86	OHX	6	2037	7/7	0.97	0.10	101,101,101,101	3
85	MG	5	3538	1/1	0.97	0.29	32,32,32,32	0
86	OHX	6	2041	7/7	0.97	0.16	56,56,56,56	4
85	MG	1	3670	1/1	0.97	0.32	38,38,38,38	0
86	OHX	5	3845	7/7	0.97	0.13	48,48,48,48	2
86	OHX	5	3846	7/7	0.97	0.14	37,37,37,37	3
86	OHX	5	3856	7/7	0.97	0.15	65,65,65,65	3
86	OHX	5	3858	7/7	0.97	0.14	72,72,72,72	3
86	OHX	5	3866	7/7	0.97	0.14	60,60,60,60	3
85	MG	1	3653	1/1	0.97	0.11	55,55,55,55	0
85	MG	1	3521	1/1	0.97	0.35	43,43,43,43	0
86	OHX	5	3872	7/7	0.97	0.16	82,82,82,82	3
86	OHX	6	2046	7/7	0.97	0.11	60,60,60,60	2
86	OHX	5	3875	7/7	0.97	0.12	49,49,49,49	2
86	OHX	6	2049	7/7	0.97	0.10	97,97,97,97	3
85	MG	1	3727	1/1	0.97	0.18	48,48,48,48	0
86	OHX	1	3917	7/7	0.97	0.08	54,54,54,54	4
86	OHX	5	3900	7/7	0.97	0.15	52,52,52,52	3
86	OHX	6	2052	7/7	0.97	0.11	67,67,67,67	3
86	OHX	5	3905	7/7	0.97	0.11	51,51,51,51	4
86	OHX	6	2053	7/7	0.97	0.13	92,92,92,92	5
86	OHX	6	2054	7/7	0.97	0.09	87,87,87,87	3
86	OHX	6	2055	7/7	0.97	0.09	113,113,113,113	4
86	OHX	5	3915	7/7	0.97	0.16	39,39,39,39	4
86	OHX	6	2056	7/7	0.97	0.10	73,73,73,73	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3435	1/1	0.97	0.32	25,25,25,25	0
86	OHX	5	3918	7/7	0.97	0.10	36,36,36,36	2
86	OHX	5	4121	7/7	0.97	0.13	68,68,68,68	7
86	OHX	6	2059	7/7	0.97	0.10	61,61,61,61	3
86	OHX	2	2066	7/7	0.97	0.08	160,160,160,160	7
86	OHX	5	3924	7/7	0.97	0.15	43,43,43,43	5
86	OHX	6	2061	7/7	0.97	0.10	86,86,86,86	4
86	OHX	6	2062	7/7	0.97	0.09	117,117,117,117	4
86	OHX	6	2063	7/7	0.97	0.07	147,147,147,147	6
86	OHX	5	3930	7/7	0.97	0.10	55,55,55,55	2
86	OHX	1	4040	7/7	0.97	0.13	52,52,52,52	4
85	MG	n0	201	1/1	0.97	0.15	41,41,41,41	0
85	MG	5	3500	1/1	0.97	0.05	40,40,40,40	0
85	MG	1	3656	1/1	0.97	0.18	46,46,46,46	0
86	OHX	6	2068	7/7	0.97	0.11	103,103,103,103	4
86	OHX	6	2069	7/7	0.97	0.11	73,73,73,73	4
86	OHX	6	2070	7/7	0.97	0.12	87,87,87,87	3
86	OHX	5	3943	7/7	0.97	0.12	44,44,44,44	2
85	MG	1	3620	1/1	0.97	0.13	32,32,32,32	0
86	OHX	5	3946	7/7	0.97	0.10	109,109,109,109	4
86	OHX	1	3926	7/7	0.97	0.18	57,57,57,57	4
85	MG	5	3798	1/1	0.97	0.16	42,42,42,42	0
85	MG	5	3799	1/1	0.97	0.21	42,42,42,42	0
86	OHX	6	2075	7/7	0.97	0.09	76,76,76,76	3
85	MG	5	3641	1/1	0.97	0.31	55,55,55,55	0
85	MG	5	3740	1/1	0.97	0.18	45,45,45,45	0
86	OHX	5	3956	7/7	0.97	0.08	40,40,40,40	2
86	OHX	5	4146	7/7	0.97	0.09	71,71,71,71	5
85	MG	1	3658	1/1	0.97	0.11	42,42,42,42	0
85	MG	5	3504	1/1	0.97	0.25	28,28,28,28	0
86	OHX	5	3961	7/7	0.97	0.10	74,74,74,74	1
86	OHX	5	3962	7/7	0.97	0.09	47,47,47,47	4
86	OHX	2	2078	7/7	0.97	0.07	115,115,115,115	7
85	MG	1	3436	1/1	0.97	0.22	39,39,39,39	0
86	OHX	5	3965	7/7	0.97	0.11	49,49,49,49	4
85	MG	f	1001	1/1	0.97	0.13	53,53,53,53	0
86	OHX	6	2084	7/7	0.97	0.12	104,104,104,104	5
86	OHX	5	3968	7/7	0.97	0.11	47,47,47,47	4
85	MG	5	3428	1/1	0.97	0.35	45,45,45,45	0
85	MG	1	3756	1/1	0.97	0.22	53,53,53,53	0
86	OHX	1	3940	7/7	0.97	0.12	77,77,77,77	5
86	OHX	6	2089	7/7	0.97	0.10	56,56,56,56	4

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3733	1/1	0.97	0.12	40,40,40,40	0
86	OHX	2	2002	7/7	0.97	0.12	101,101,101,101	3
86	OHX	1	3944	7/7	0.97	0.11	48,48,48,48	4
86	OHX	2	2085	7/7	0.97	0.09	103,103,103,103	4
86	OHX	1	3946	7/7	0.97	0.07	69,69,69,69	3
85	MG	N8	203	1/1	0.97	0.15	30,30,30,30	0
86	OHX	5	3980	7/7	0.97	0.13	55,55,55,55	3
86	OHX	6	2096	7/7	0.97	0.13	94,94,94,94	5
85	MG	1	3713	1/1	0.97	0.22	40,40,40,40	0
85	MG	d2	201	1/1	0.97	0.20	59,59,59,59	0
86	OHX	5	3984	7/7	0.97	0.12	56,56,56,56	4
86	OHX	C8	201	7/7	0.97	0.10	111,111,111,111	4
86	OHX	6	2101	7/7	0.97	0.10	62,62,62,62	2
85	MG	5	3699	1/1	0.97	0.26	39,39,39,39	0
86	OHX	7	221	7/7	0.97	0.12	50,50,50,50	4
85	MG	O7	101	1/1	0.97	0.08	62,62,62,62	0
85	MG	5	3435	1/1	0.97	0.15	33,33,33,33	0
86	OHX	1	3808	7/7	0.97	0.12	74,74,74,74	3
86	OHX	1	3811	7/7	0.97	0.14	79,79,79,79	2
86	OHX	8	216	7/7	0.97	0.10	85,85,85,85	3
86	OHX	1	3957	7/7	0.97	0.09	49,49,49,49	5
86	OHX	1	3817	7/7	0.97	0.12	109,109,109,109	5
86	OHX	6	2109	7/7	0.97	0.10	99,99,99,99	6
86	OHX	1	3820	7/7	0.97	0.18	47,47,47,47	4
86	OHX	1	3960	7/7	0.97	0.11	42,42,42,42	4
86	OHX	1	3821	7/7	0.97	0.14	66,66,66,66	5
86	OHX	5	4002	7/7	0.97	0.12	70,70,70,70	4
86	OHX	2	2018	7/7	0.97	0.09	74,74,74,74	5
86	OHX	8	227	7/7	0.97	0.11	59,59,59,59	3
85	MG	1	3645	1/1	0.97	0.32	51,51,51,51	0
86	OHX	1	3831	7/7	0.97	0.15	48,48,48,48	3
86	OHX	1	3832	7/7	0.97	0.13	80,80,80,80	3
86	OHX	1	3833	7/7	0.97	0.11	71,71,71,71	4
86	OHX	5	4010	7/7	0.97	0.07	72,72,72,72	5
86	OHX	14	402	7/7	0.97	0.08	69,69,69,69	5
85	MG	1	3471	1/1	0.97	0.31	45,45,45,45	0
85	MG	5	3402	1/1	0.97	0.10	54,54,54,54	0
86	OHX	1	3842	7/7	0.97	0.10	80,80,80,80	3
86	OHX	5	4014	7/7	0.97	0.10	48,48,48,48	3
85	MG	7	202	1/1	0.97	0.36	19,19,19,19	0
86	OHX	1	3845	7/7	0.97	0.09	123,123,123,123	3
85	MG	1	3441	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
86	OHX	2	2024	7/7	0.97	0.10	100,100,100,100	6
86	OHX	m5	306	7/7	0.97	0.10	76,76,76,76	3
86	OHX	1	3852	7/7	0.97	0.12	70,70,70,70	3
86	OHX	2	2026	7/7	0.97	0.11	103,103,103,103	4
86	OHX	5	4023	7/7	0.97	0.11	39,39,39,39	2
86	OHX	1	3976	7/7	0.97	0.11	41,41,41,41	4
86	OHX	1	3855	7/7	0.97	0.11	87,87,87,87	3
85	MG	5	3477	1/1	0.97	0.25	27,27,27,27	0
86	OHX	q2	203	7/7	0.97	0.15	47,47,47,47	2
86	OHX	1	3857	7/7	0.97	0.14	54,54,54,54	4
87	ZN	E1	501	1/1	0.97	0.04	145,145,145,145	0
85	MG	5	3707	1/1	0.97	0.32	64,64,64,64	0
88	SPS	5	3403	23/23	0.97	0.10	35,38,52,54	23
85	MG	1	3582	1/1	0.97	0.42	27,27,27,27	0
89	PRO	5	4173	7/8	0.97	0.11	35,35,45,45	0
85	MG	1	3536	1/1	0.97	0.21	29,29,29,29	0
86	OHX	1	3931	7/7	0.98	0.12	43,43,43,43	4
86	OHX	5	3903	7/7	0.98	0.12	91,91,91,91	2
86	OHX	5	4065	7/7	0.98	0.13	39,39,39,39	3
86	OHX	5	3904	7/7	0.98	0.16	49,49,49,49	2
86	OHX	1	3836	7/7	0.98	0.12	98,98,98,98	3
86	OHX	5	3906	7/7	0.98	0.11	60,60,60,60	4
86	OHX	6	2100	7/7	0.98	0.10	71,71,71,71	3
86	OHX	1	3839	7/7	0.98	0.12	64,64,64,64	3
86	OHX	5	3912	7/7	0.98	0.10	107,107,107,107	2
86	OHX	5	3913	7/7	0.98	0.08	77,77,77,77	3
86	OHX	1	3840	7/7	0.98	0.11	85,85,85,85	3
86	OHX	2	2025	7/7	0.98	0.11	79,79,79,79	5
85	MG	5	3713	1/1	0.98	0.23	38,38,38,38	0
85	MG	1	3495	1/1	0.98	0.34	34,34,34,34	0
86	OHX	4	218	7/7	0.98	0.09	55,55,55,55	2
86	OHX	4	219	7/7	0.98	0.13	60,60,60,60	4
86	OHX	5	3920	7/7	0.98	0.08	36,36,36,36	2
86	OHX	5	3921	7/7	0.98	0.11	57,57,57,57	2
86	OHX	1	3844	7/7	0.98	0.10	98,98,98,98	5
85	MG	6	1930	1/1	0.98	0.36	45,45,45,45	0
86	OHX	5	3925	7/7	0.98	0.08	56,56,56,56	3
86	OHX	1	3846	7/7	0.98	0.08	119,119,119,119	3
86	OHX	5	3927	7/7	0.98	0.10	64,64,64,64	5
85	MG	6	2005	1/1	0.98	0.06	88,88,88,88	0
86	OHX	2	2031	7/7	0.98	0.10	81,81,81,81	4
86	OHX	1	3943	7/7	0.98	0.09	97,97,97,97	6

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3931	7/7	0.98	0.10	54,54,54,54	4
85	MG	5	3534	1/1	0.98	0.24	25,25,25,25	0
86	OHX	5	3933	7/7	0.98	0.09	94,94,94,94	4
86	OHX	5	3934	7/7	0.98	0.11	38,38,38,38	2
86	OHX	5	3935	7/7	0.98	0.11	45,45,45,45	1
85	MG	1	3664	1/1	0.98	0.22	39,39,39,39	0
86	OHX	5	3937	7/7	0.98	0.09	53,53,53,53	2
85	MG	5	3609	1/1	0.98	0.09	35,35,35,35	0
85	MG	5	3478	1/1	0.98	0.26	21,21,21,21	0
85	MG	5	3771	1/1	0.98	0.22	36,36,36,36	0
85	MG	5	3772	1/1	0.98	0.27	37,37,37,37	0
86	OHX	1	3950	7/7	0.98	0.09	41,41,41,41	4
86	OHX	2	2038	7/7	0.98	0.08	119,119,119,119	6
86	OHX	5	3944	7/7	0.98	0.13	42,42,42,42	3
86	OHX	L3	402	7/7	0.98	0.10	59,59,59,59	4
86	OHX	1	3861	7/7	0.98	0.10	60,60,60,60	3
86	OHX	5	3947	7/7	0.98	0.13	45,45,45,45	3
85	MG	1	3589	1/1	0.98	0.12	40,40,40,40	0
86	OHX	1	3863	7/7	0.98	0.11	42,42,42,42	3
85	MG	1	3528	1/1	0.98	0.28	47,47,47,47	0
85	MG	1	3425	1/1	0.98	0.41	27,27,27,27	0
85	MG	5	3805	1/1	0.98	0.10	37,37,37,37	0
86	OHX	5	3953	7/7	0.98	0.10	45,45,45,45	3
86	OHX	5	3954	7/7	0.98	0.09	49,49,49,49	2
86	OHX	1	3868	7/7	0.98	0.11	53,53,53,53	4
85	MG	5	3776	1/1	0.98	0.05	75,75,75,75	0
85	MG	5	3677	1/1	0.98	0.06	29,29,29,29	0
86	OHX	5	3958	7/7	0.98	0.12	42,42,42,42	2
86	OHX	5	3959	7/7	0.98	0.10	61,61,61,61	4
86	OHX	2	1991	7/7	0.98	0.11	88,88,88,88	0
86	OHX	2	1992	7/7	0.98	0.08	98,98,98,98	1
86	OHX	2	1993	7/7	0.98	0.12	96,96,96,96	2
86	OHX	2	1994	7/7	0.98	0.10	97,97,97,97	2
86	OHX	2	1996	7/7	0.98	0.13	101,101,101,101	5
86	OHX	2	1997	7/7	0.98	0.11	107,107,107,107	5
86	OHX	2	1998	7/7	0.98	0.12	116,116,116,116	2
86	OHX	1	4060	7/7	0.98	0.10	65,65,65,65	4
86	OHX	Q2	503	7/7	0.98	0.12	46,46,46,46	2
86	OHX	6	2016	7/7	0.98	0.11	83,83,83,83	4
86	OHX	6	2020	7/7	0.98	0.11	100,100,100,100	4
86	OHX	1	3878	7/7	0.98	0.10	58,58,58,58	3
85	MG	5	3482	1/1	0.98	0.32	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3973	7/7	0.98	0.13	39,39,39,39	4
86	OHX	6	2031	7/7	0.98	0.11	80,80,80,80	4
86	OHX	6	2032	7/7	0.98	0.11	117,117,117,117	2
86	OHX	6	2033	7/7	0.98	0.14	56,56,56,56	5
86	OHX	6	2035	7/7	0.98	0.11	82,82,82,82	3
86	OHX	6	2036	7/7	0.98	0.09	58,58,58,58	3
86	OHX	1	3880	7/7	0.98	0.11	47,47,47,47	5
85	MG	5	3679	1/1	0.98	0.17	31,31,31,31	1
86	OHX	6	2040	7/7	0.98	0.09	123,123,123,123	5
85	MG	5	3525	1/1	0.98	0.32	31,31,31,31	0
86	OHX	S1	301	7/7	0.98	0.10	121,121,121,121	2
86	OHX	2	2005	7/7	0.98	0.10	99,99,99,99	3
86	OHX	2	2006	7/7	0.98	0.10	93,93,93,93	3
85	MG	5	3616	1/1	0.98	0.05	42,42,42,42	0
86	OHX	5	3987	7/7	0.98	0.12	41,41,41,41	3
86	OHX	6	2047	7/7	0.98	0.10	67,67,67,67	5
86	OHX	6	2048	7/7	0.98	0.10	65,65,65,65	4
86	OHX	5	3990	7/7	0.98	0.10	44,44,44,44	4
86	OHX	2	2008	7/7	0.98	0.09	89,89,89,89	5
86	OHX	5	3992	7/7	0.98	0.13	80,80,80,80	5
85	MG	5	3754	1/1	0.98	0.23	51,51,51,51	0
85	MG	5	3783	1/1	0.98	0.03	38,38,38,38	0
86	OHX	2	2012	7/7	0.98	0.09	87,87,87,87	3
86	OHX	2	2013	7/7	0.98	0.11	94,94,94,94	4
86	OHX	1	3982	7/7	0.98	0.12	47,47,47,47	5
86	OHX	1	3776	7/7	0.98	0.12	55,55,55,55	1
86	OHX	1	3782	7/7	0.98	0.13	71,71,71,71	4
86	OHX	1	3894	7/7	0.98	0.06	132,132,132,132	7
86	OHX	6	2058	7/7	0.98	0.07	72,72,72,72	2
86	OHX	1	3787	7/7	0.98	0.14	72,72,72,72	3
86	OHX	5	4004	7/7	0.98	0.07	55,55,55,55	2
86	OHX	1	3792	7/7	0.98	0.11	74,74,74,74	3
86	OHX	1	3793	7/7	0.98	0.14	68,68,68,68	4
86	OHX	5	4007	7/7	0.98	0.09	40,40,40,40	3
86	OHX	1	3794	7/7	0.98	0.11	69,69,69,69	2
86	OHX	1	3795	7/7	0.98	0.12	85,85,85,85	2
86	OHX	1	3991	7/7	0.98	0.09	57,57,57,57	3
86	OHX	1	3796	7/7	0.98	0.11	57,57,57,57	4
86	OHX	1	3798	7/7	0.98	0.10	69,69,69,69	1
86	OHX	1	3799	7/7	0.98	0.12	78,78,78,78	3
86	OHX	1	3800	7/7	0.98	0.14	44,44,44,44	3
86	OHX	1	3801	7/7	0.98	0.12	71,71,71,71	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	7	214	7/7	0.98	0.10	70,70,70,70	1
86	OHX	7	215	7/7	0.98	0.11	60,60,60,60	5
86	OHX	1	3805	7/7	0.98	0.09	93,93,93,93	4
86	OHX	7	218	7/7	0.98	0.13	67,67,67,67	3
86	OHX	7	219	7/7	0.98	0.08	67,67,67,67	2
86	OHX	2	2014	7/7	0.98	0.06	130,130,130,130	7
86	OHX	2	2015	7/7	0.98	0.06	90,90,90,90	4
86	OHX	1	3810	7/7	0.98	0.12	62,62,62,62	3
86	OHX	5	4021	7/7	0.98	0.11	36,36,36,36	2
85	MG	5	3457	1/1	0.98	0.17	38,38,38,38	0
86	OHX	8	214	7/7	0.98	0.11	62,62,62,62	4
86	OHX	1	3812	7/7	0.98	0.11	88,88,88,88	3
86	OHX	1	3813	7/7	0.98	0.10	52,52,52,52	2
86	OHX	1	3814	7/7	0.98	0.14	76,76,76,76	3
86	OHX	1	3815	7/7	0.98	0.10	85,85,85,85	3
86	OHX	6	2079	7/7	0.98	0.09	51,51,51,51	3
86	OHX	8	220	7/7	0.98	0.09	44,44,44,44	3
86	OHX	1	3816	7/7	0.98	0.15	62,62,62,62	5
85	MG	5	3559	1/1	0.98	0.31	22,22,22,22	0
86	OHX	1	3819	7/7	0.98	0.09	81,81,81,81	3
85	MG	5	3560	1/1	0.98	0.38	27,27,27,27	0
86	OHX	8	225	7/7	0.98	0.08	40,40,40,40	3
86	OHX	5	3843	7/7	0.98	0.11	64,64,64,64	1
85	MG	1	3632	1/1	0.98	0.25	47,47,47,47	0
86	OHX	6	2085	7/7	0.98	0.12	76,76,76,76	2
86	OHX	5	3855	7/7	0.98	0.13	71,71,71,71	3
85	MG	6	2000	1/1	0.98	0.28	48,48,48,48	0
86	OHX	1	3826	7/7	0.98	0.11	84,84,84,84	4
86	OHX	13	403	7/7	0.98	0.10	50,50,50,50	3
86	OHX	5	3860	7/7	0.98	0.10	88,88,88,88	3
86	OHX	5	3862	7/7	0.98	0.10	47,47,47,47	2
86	OHX	5	3865	7/7	0.98	0.10	86,86,86,86	1
86	OHX	1	3921	7/7	0.98	0.08	82,82,82,82	3
86	OHX	5	3867	7/7	0.98	0.08	126,126,126,126	2
86	OHX	5	3868	7/7	0.98	0.13	74,74,74,74	2
85	MG	5	3601	1/1	0.98	0.23	26,26,26,26	0
86	OHX	1	3923	7/7	0.98	0.09	40,40,40,40	3
86	OHX	1	3830	7/7	0.98	0.12	99,99,99,99	3
85	MG	1	3734	1/1	0.98	0.34	35,35,35,35	1
86	OHX	m5	305	7/7	0.98	0.14	54,54,54,54	3
85	MG	1	3706	1/1	0.98	0.12	38,38,38,38	0
86	OHX	m6	201	7/7	0.98	0.13	36,36,36,36	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2073	7/7	0.98	0.09	63,63,63,63	6
86	OHX	5	3879	7/7	0.98	0.10	59,59,59,59	3
86	OHX	5	3881	7/7	0.98	0.08	96,96,96,96	2
86	OHX	n3	202	7/7	0.98	0.08	60,60,60,60	3
86	OHX	5	3882	7/7	0.98	0.10	89,89,89,89	3
86	OHX	5	3884	7/7	0.98	0.10	63,63,63,63	3
85	MG	7	206	1/1	0.98	0.14	34,34,34,34	0
86	OHX	o7	503	7/7	0.98	0.14	62,62,62,62	1
86	OHX	5	3890	7/7	0.98	0.11	69,69,69,69	3
86	OHX	5	3891	7/7	0.98	0.11	66,66,66,66	4
86	OHX	5	3892	7/7	0.98	0.14	63,63,63,63	3
87	ZN	Q0	500	1/1	0.98	0.03	54,54,54,54	0
86	OHX	5	3894	7/7	0.98	0.15	50,50,50,50	2
87	ZN	e1	501	1/1	0.98	0.05	173,173,173,173	0
87	ZN	q2	202	1/1	0.98	0.08	71,71,71,71	0
88	SPS	1	4113	23/23	0.98	0.07	39,42,55,58	0
86	OHX	1	3929	7/7	0.98	0.10	53,53,53,53	4
86	OHX	5	3896	7/7	0.98	0.10	42,42,42,42	4
86	OHX	5	3899	7/7	0.98	0.12	49,49,49,49	3
86	OHX	1	3835	7/7	0.98	0.14	62,62,62,62	1
89	PRO	C	101	7/8	0.98	0.09	29,29,51,51	0
86	OHX	1	3788	7/7	0.99	0.08	58,58,58,58	4
86	OHX	5	3861	7/7	0.99	0.09	46,46,46,46	3
86	OHX	1	3789	7/7	0.99	0.07	74,74,74,74	2
86	OHX	5	3863	7/7	0.99	0.10	85,85,85,85	3
86	OHX	5	3864	7/7	0.99	0.07	88,88,88,88	3
86	OHX	4	216	7/7	0.99	0.10	59,59,59,59	3
86	OHX	1	3790	7/7	0.99	0.09	48,48,48,48	3
86	OHX	1	3791	7/7	0.99	0.10	41,41,41,41	2
86	OHX	2	2001	7/7	0.99	0.07	120,120,120,120	2
85	MG	5	3582	1/1	0.99	0.35	31,31,31,31	0
86	OHX	5	3870	7/7	0.99	0.12	76,76,76,76	5
86	OHX	2	2003	7/7	0.99	0.11	76,76,76,76	5
85	MG	1	3574	1/1	0.99	0.33	30,30,30,30	0
86	OHX	5	3873	7/7	0.99	0.08	58,58,58,58	4
86	OHX	1	3847	7/7	0.99	0.10	56,56,56,56	3
85	MG	1	3668	1/1	0.99	0.04	38,38,38,38	1
86	OHX	5	4000	7/7	0.99	0.07	45,45,45,45	2
86	OHX	1	3797	7/7	0.99	0.07	54,54,54,54	2
86	OHX	5	3877	7/7	0.99	0.07	62,62,62,62	3
86	OHX	5	3878	7/7	0.99	0.11	73,73,73,73	3
86	OHX	1	3850	7/7	0.99	0.12	47,47,47,47	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3880	7/7	0.99	0.08	47,47,47,47	3
86	OHX	1	3851	7/7	0.99	0.08	46,46,46,46	3
85	MG	1	3518	1/1	0.99	0.33	31,31,31,31	0
86	OHX	5	3883	7/7	0.99	0.08	53,53,53,53	1
85	MG	5	3593	1/1	0.99	0.30	22,22,22,22	0
86	OHX	5	3885	7/7	0.99	0.07	78,78,78,78	3
86	OHX	5	3886	7/7	0.99	0.12	79,79,79,79	3
86	OHX	5	3887	7/7	0.99	0.08	44,44,44,44	2
86	OHX	5	3888	7/7	0.99	0.10	43,43,43,43	3
86	OHX	1	3854	7/7	0.99	0.09	43,43,43,43	4
86	OHX	2	1995	7/7	0.99	0.13	76,76,76,76	2
86	OHX	2	2009	7/7	0.99	0.10	89,89,89,89	4
86	OHX	1	3802	7/7	0.99	0.08	60,60,60,60	2
86	OHX	5	4018	7/7	0.99	0.09	48,48,48,48	4
86	OHX	5	3893	7/7	0.99	0.10	59,59,59,59	2
86	OHX	1	3803	7/7	0.99	0.09	73,73,73,73	3
86	OHX	1	3804	7/7	0.99	0.11	62,62,62,62	1
85	MG	6	1994	1/1	0.99	0.35	49,49,49,49	0
86	OHX	5	3897	7/7	0.99	0.09	46,46,46,46	5
86	OHX	5	3898	7/7	0.99	0.09	58,58,58,58	4
86	OHX	1	3806	7/7	0.99	0.12	52,52,52,52	2
85	MG	L2	302	1/1	0.99	0.19	41,41,41,41	0
86	OHX	5	3901	7/7	0.99	0.11	43,43,43,43	3
85	MG	5	3732	1/1	0.99	0.14	30,30,30,30	0
86	OHX	1	3865	7/7	0.99	0.08	75,75,75,75	2
86	OHX	1	3809	7/7	0.99	0.11	80,80,80,80	2
86	OHX	1	3763	7/7	0.99	0.10	58,58,58,58	2
86	OHX	1	3765	7/7	0.99	0.11	65,65,65,65	2
86	OHX	5	3907	7/7	0.99	0.09	63,63,63,63	3
86	OHX	5	3908	7/7	0.99	0.09	45,45,45,45	4
86	OHX	1	3766	7/7	0.99	0.09	61,61,61,61	2
86	OHX	1	3767	7/7	0.99	0.11	77,77,77,77	2
86	OHX	5	3911	7/7	0.99	0.10	44,44,44,44	4
86	OHX	1	3769	7/7	0.99	0.07	64,64,64,64	2
86	OHX	N9	101	7/7	0.99	0.08	64,64,64,64	1
86	OHX	1	3771	7/7	0.99	0.07	59,59,59,59	2
86	OHX	1	3772	7/7	0.99	0.08	67,67,67,67	2
86	OHX	1	3773	7/7	0.99	0.10	49,49,49,49	2
86	OHX	1	3818	7/7	0.99	0.09	62,62,62,62	2
86	OHX	1	3774	7/7	0.99	0.09	71,71,71,71	3
86	OHX	1	3775	7/7	0.99	0.12	66,66,66,66	2
86	OHX	6	2012	7/7	0.99	0.12	70,70,70,70	3

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2013	7/7	0.99	0.08	87,87,87,87	2
86	OHX	6	2014	7/7	0.99	0.09	76,76,76,76	3
86	OHX	5	3923	7/7	0.99	0.13	41,41,41,41	1
86	OHX	7	217	7/7	0.99	0.08	40,40,40,40	1
86	OHX	6	2015	7/7	0.99	0.07	78,78,78,78	3
85	MG	1	3525	1/1	0.99	0.41	35,35,35,35	0
86	OHX	6	2018	7/7	0.99	0.09	90,90,90,90	2
86	OHX	6	2019	7/7	0.99	0.12	79,79,79,79	2
86	OHX	1	3822	7/7	0.99	0.09	50,50,50,50	4
86	OHX	6	2021	7/7	0.99	0.08	69,69,69,69	3
86	OHX	6	2022	7/7	0.99	0.07	67,67,67,67	2
86	OHX	8	212	7/7	0.99	0.10	57,57,57,57	3
86	OHX	8	213	7/7	0.99	0.07	57,57,57,57	2
86	OHX	6	2023	7/7	0.99	0.10	80,80,80,80	3
86	OHX	6	2024	7/7	0.99	0.07	99,99,99,99	3
86	OHX	1	3823	7/7	0.99	0.09	111,111,111,111	4
86	OHX	6	2026	7/7	0.99	0.10	66,66,66,66	1
86	OHX	6	2027	7/7	0.99	0.10	76,76,76,76	2
86	OHX	6	2028	7/7	0.99	0.08	63,63,63,63	2
86	OHX	1	3824	7/7	0.99	0.09	68,68,68,68	3
86	OHX	6	2030	7/7	0.99	0.09	57,57,57,57	2
86	OHX	1	3777	7/7	0.99	0.10	61,61,61,61	3
86	OHX	s1	301	7/7	0.99	0.10	95,95,95,95	2
86	OHX	1	3778	7/7	0.99	0.09	64,64,64,64	1
86	OHX	1	3827	7/7	0.99	0.08	45,45,45,45	4
86	OHX	6	2034	7/7	0.99	0.09	66,66,66,66	5
86	OHX	1	3828	7/7	0.99	0.09	63,63,63,63	2
86	OHX	1	3780	7/7	0.99	0.08	75,75,75,75	1
86	OHX	1	3781	7/7	0.99	0.09	76,76,76,76	2
86	OHX	6	2038	7/7	0.99	0.09	61,61,61,61	5
86	OHX	3	209	7/7	0.99	0.08	76,76,76,76	4
86	OHX	2	2028	7/7	0.99	0.07	108,108,108,108	5
86	OHX	1	3783	7/7	0.99	0.08	83,83,83,83	2
86	OHX	6	2042	7/7	0.99	0.11	62,62,62,62	3
86	OHX	5	3819	7/7	0.99	0.14	51,51,51,51	3
86	OHX	5	3821	7/7	0.99	0.11	64,64,64,64	2
86	OHX	5	3823	7/7	0.99	0.14	53,53,53,53	2
86	OHX	5	3825	7/7	0.99	0.09	58,58,58,58	1
86	OHX	5	3827	7/7	0.99	0.09	80,80,80,80	1
86	OHX	5	3828	7/7	0.99	0.09	50,50,50,50	3
86	OHX	5	3830	7/7	0.99	0.09	67,67,67,67	0
86	OHX	5	3831	7/7	0.99	0.09	61,61,61,61	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3832	7/7	0.99	0.09	56,56,56,56	2
86	OHX	5	3833	7/7	0.99	0.08	59,59,59,59	2
86	OHX	5	3834	7/7	0.99	0.11	51,51,51,51	1
86	OHX	5	3835	7/7	0.99	0.07	54,54,54,54	1
86	OHX	5	3836	7/7	0.99	0.11	65,65,65,65	3
86	OHX	5	3839	7/7	0.99	0.08	64,64,64,64	2
86	OHX	5	3840	7/7	0.99	0.09	65,65,65,65	2
86	OHX	n9	101	7/7	0.99	0.08	62,62,62,62	2
86	OHX	1	3784	7/7	0.99	0.11	73,73,73,73	2
86	OHX	5	3844	7/7	0.99	0.10	62,62,62,62	2
86	OHX	1	3785	7/7	0.99	0.11	59,59,59,59	2
86	OHX	1	3786	7/7	0.99	0.10	94,94,94,94	3
86	OHX	5	3847	7/7	0.99	0.10	48,48,48,48	1
87	ZN	D6	500	1/1	0.99	0.04	103,103,103,103	0
86	OHX	5	3848	7/7	0.99	0.09	54,54,54,54	1
87	ZN	D9	101	1/1	0.99	0.03	89,89,89,89	0
86	OHX	5	3849	7/7	0.99	0.08	100,100,100,100	3
86	OHX	5	3850	7/7	0.99	0.10	51,51,51,51	2
87	ZN	Q2	501	1/1	0.99	0.08	77,77,77,77	0
87	ZN	d6	101	1/1	0.99	0.07	84,84,84,84	0
86	OHX	5	3851	7/7	0.99	0.11	55,55,55,55	4
87	ZN	d9	101	1/1	0.99	0.03	91,91,91,91	0
86	OHX	5	3852	7/7	0.99	0.12	55,55,55,55	2
86	OHX	5	3853	7/7	0.99	0.08	56,56,56,56	3
86	OHX	5	3854	7/7	0.99	0.07	78,78,78,78	2
86	OHX	2	2000	7/7	0.99	0.10	105,105,105,105	3
86	OHX	1	3837	7/7	0.99	0.09	60,60,60,60	2
86	OHX	5	3857	7/7	0.99	0.10	54,54,54,54	1
86	OHX	1	3838	7/7	0.99	0.10	52,52,52,52	3
86	OHX	5	3859	7/7	0.99	0.10	55,55,55,55	1
86	OHX	5	3842	7/7	1.00	0.07	38,38,38,38	3
86	OHX	1	3768	7/7	1.00	0.08	52,52,52,52	2
86	OHX	8	211	7/7	1.00	0.07	64,64,64,64	1
86	OHX	5	3824	7/7	1.00	0.08	62,62,62,62	2
86	OHX	1	3779	7/7	1.00	0.07	49,49,49,49	4
86	OHX	5	3826	7/7	1.00	0.08	46,46,46,46	1
86	OHX	1	3762	7/7	1.00	0.08	55,55,55,55	3
86	OHX	1	3770	7/7	1.00	0.09	61,61,61,61	2
86	OHX	5	3829	7/7	1.00	0.08	44,44,44,44	5
87	ZN	O7	102	1/1	1.00	0.01	47,47,47,47	0
86	OHX	1	3860	7/7	1.00	0.09	38,38,38,38	2
86	OHX	M5	303	7/7	1.00	0.09	61,61,61,61	2

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
87	ZN	Q3	501	1/1	1.00	0.02	78,78,78,78	0
86	OHX	1	3761	7/7	1.00	0.08	57,57,57,57	1
86	OHX	5	3817	7/7	1.00	0.10	53,53,53,53	4
86	OHX	m5	304	7/7	1.00	0.08	61,61,61,61	2
86	OHX	5	3818	7/7	1.00	0.06	57,57,57,57	0
87	ZN	o7	501	1/1	1.00	0.02	45,45,45,45	0
87	ZN	q0	500	1/1	1.00	0.02	42,42,42,42	0
86	OHX	1	3764	7/7	1.00	0.10	65,65,65,65	2
87	ZN	q3	501	1/1	1.00	0.02	62,62,62,62	0
86	OHX	5	3820	7/7	1.00	0.10	52,52,52,52	3
86	OHX	5	3837	7/7	1.00	0.07	71,71,71,71	0
86	OHX	5	3838	7/7	1.00	0.07	58,58,58,58	2
86	OHX	6	2017	7/7	1.00	0.09	59,59,59,59	2
86	OHX	5	3822	7/7	1.00	0.09	61,61,61,61	2
86	OHX	5	3841	7/7	1.00	0.06	51,51,51,51	1

6.5 Other polymers [i](#)

There are no such residues in this entry.