



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:46 PM UTC

PDB ID : 4U56 / pdb_00004u56
Title : Crystal structure of Blasticidin S bound to the yeast 80S ribosome
Authors : Garreau de Loubresse, N.; Prokhorova, I.; Yusupova, G.; Yusupov, M.
Deposited on : 2014-07-24
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

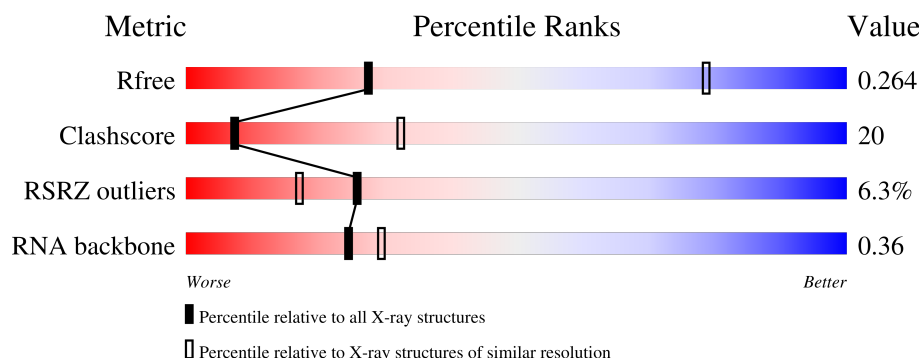
1 Overall quality at a glance

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))
R_{free}	180053	1070 (3.50-3.42)
Clashscore	190562	1128 (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	5% 29% 49% 20% .
1	6	1800	4% 33% 49% 18%
2	S0	251	4% 36% 45% 18%
2	s0	251	2% 33% 47% 18%
3	S1	254	8% 37% 47% 16%
3	s1	254	2% 46% 39% 15%

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Mol	Chain	Length	Quality of chain
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	
15	c3	150	
16	C4	136	

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Mol	Chain	Length	Quality of chain
16	c4	136	
17	C5	141	
17	c5	141	
18	C6	142	
18	c6	142	
19	C7	136	
19	c7	136	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	120	
22	d0	120	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	107	
27	d5	107	
28	D6	97	
28	d6	97	

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Mol	Chain	Length	Quality of chain
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	60	
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	
40	l3	386	
41	L4	361	
41	l4	361	

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Mol	Chain	Length	Quality of chain
42	L5	296	
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	243	
44	l7	243	
45	L8	255	
45	l8	255	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	173	
48	m1	173	
49	M3	198	
49	m3	198	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	198	
52	m6	198	
53	M7	183	
53	m7	183	
54	M8	185	

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Mol	Chain	Length	Quality of chain
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	120	
58	n2	120	
59	N3	136	
59	n3	136	
60	N4	155	
60	n4	155	
61	N5	141	
61	n5	141	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	104	
66	o0	104	

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Mol	Chain	Length	Quality of chain
67	O1	112	
67	o1	112	
68	O2	129	
68	o2	129	
69	O3	106	
69	o3	106	
70	O4	120	
70	o4	120	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	

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Mol	Chain	Length	Quality of chain
79	q3	91	
80	e0	62	
81	p0	311	
82	m2	160	
83	p1	47	
84	p2	46	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	1	3586	-	-	-	X
85	MG	1	3780	-	-	-	X
85	MG	1	3800	-	-	-	X
85	MG	1	4217	-	-	-	X
85	MG	2	1914	-	-	-	X
85	MG	2	1915	-	-	-	X
85	MG	2	1924	-	-	-	X
85	MG	2	1933	-	-	-	X
85	MG	2	1936	-	-	-	X
85	MG	2	1950	-	-	-	X
85	MG	2	1959	-	-	-	X
85	MG	2	1980	-	-	-	X
85	MG	2	1987	-	-	-	X
85	MG	3	214	-	-	-	X
85	MG	5	3438	-	-	-	X
85	MG	5	3525	-	-	-	X
85	MG	5	3751	-	-	-	X
85	MG	6	1924	-	-	-	X
85	MG	6	1939	-	-	-	X
85	MG	6	1945	-	-	-	X
85	MG	6	1950	-	-	-	X
85	MG	6	1960	-	-	-	X
85	MG	6	2028	-	-	-	X
85	MG	m1	201	-	-	-	X
86	OHX	1	3951	-	-	X	-
86	OHX	1	3965	-	-	X	-
86	OHX	1	3998	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	1	4023	-	-	X	-
86	OHX	1	4027	-	-	X	-
86	OHX	1	4040	-	-	X	-
86	OHX	1	4050	-	-	X	-
86	OHX	1	4143	-	-	X	-
86	OHX	1	4153	-	-	X	-
86	OHX	1	4160	-	-	X	-
86	OHX	1	4169	-	-	X	-
86	OHX	1	4178	-	-	X	-
86	OHX	1	4194	-	-	X	-
86	OHX	2	2031	-	-	X	-
86	OHX	2	2043	-	-	X	-
86	OHX	2	2074	-	-	X	-
86	OHX	2	2098	-	-	X	-
86	OHX	2	2131	-	-	X	-
86	OHX	2	2146	-	-	X	-
86	OHX	2	2162	-	-	X	-
86	OHX	5	3935	-	-	X	-
86	OHX	5	3966	-	-	X	-
86	OHX	5	3971	-	-	X	-
86	OHX	5	3994	-	-	X	-
86	OHX	5	3995	-	-	X	-
86	OHX	5	4004	-	-	X	-
86	OHX	5	4014	-	-	X	-
86	OHX	5	4029	-	-	X	-
86	OHX	5	4060	-	-	X	-
86	OHX	5	4085	-	-	X	-
86	OHX	5	4193	-	-	X	-
86	OHX	5	4195	-	-	X	-
86	OHX	5	4212	-	-	X	-
86	OHX	5	4228	-	-	X	-
86	OHX	5	4232	-	-	X	-
86	OHX	5	4238	-	-	X	-
86	OHX	6	2059	-	-	X	-
86	OHX	6	2120	-	-	X	-
86	OHX	6	2147	-	-	X	-
86	OHX	6	2171	-	-	X	-
86	OHX	7	220	-	-	X	-
86	OHX	7	228	-	-	X	-
86	OHX	8	216	-	-	X	-
86	OHX	8	223	-	-	X	-
86	OHX	O1	202	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	O7	104	-	-	X	-
87	ZN	Q2	501	-	-	X	-

2 Entry composition [i](#)

There are 88 unique types of molecules in this entry. The entry contains 411214 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	1750	Total	C	N	O	P	0	0	0
			37283	16668	6591	12274	1750			
1	6	1795	Total	C	N	O	P	0	0	0
			38238	17095	6758	12590	1795			

- 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			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C5	137	SER	ARG	conflict	UNP Q01855
c5	137	SER	ARG	conflict	UNP Q01855

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			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-B.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			

- 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
			2441	1544	419	470	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 35 is a protein called Suppressor protein STM1.

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
			679	402	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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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
			1763	1130	316	314	3			

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

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

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

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

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

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

- Molecule 49 is a protein called 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			
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				

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O4	121	LYS	-	expression tag	UNP P87262
o4	121	LYS	-	expression tag	UNP P87262

- 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 40S ribosomal protein S30-A.

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

- 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
			1076	686	192	195	3			

- Molecule 82 is a protein called unknown protein chain m2.

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

- Molecule 83 is a protein called unknown protein chain p1.

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

- Molecule 84 is a protein called unknown protein chain p2.

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

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	2	122	Total	Mg	0	0
			122	122		
85	S4	1	Total	Mg	0	0
			1	1		
85	S8	1	Total	Mg	0	0
			1	1		
85	C1	1	Total	Mg	0	0
			1	1		
85	D0	1	Total	Mg	0	0
			1	1		
85	D3	1	Total	Mg	0	0
			1	1		
85	D4	1	Total	Mg	0	0
			1	1		
85	SM	1	Total	Mg	0	0
			1	1		
85	1	462	Total	Mg	0	0
			462	462		
85	3	15	Total	Mg	0	0
			15	15		
85	4	23	Total	Mg	0	0
			23	23		
85	L2	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	L3	4	Total 4	Mg 4	0	0
85	L4	3	Total 3	Mg 3	0	0
85	L7	2	Total 2	Mg 2	0	0
85	L8	1	Total 1	Mg 1	0	0
85	M0	3	Total 3	Mg 3	0	0
85	M1	1	Total 1	Mg 1	0	0
85	M3	2	Total 2	Mg 2	0	0
85	M5	2	Total 2	Mg 2	0	0
85	M6	1	Total 1	Mg 1	0	0
85	M7	5	Total 5	Mg 5	0	0
85	M9	1	Total 1	Mg 1	0	0
85	N0	1	Total 1	Mg 1	0	0
85	N3	3	Total 3	Mg 3	0	0
85	N5	1	Total 1	Mg 1	0	0
85	N6	2	Total 2	Mg 2	0	0
85	N8	5	Total 5	Mg 5	0	0
85	O1	1	Total 1	Mg 1	0	0
85	O2	2	Total 2	Mg 2	0	0
85	O5	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

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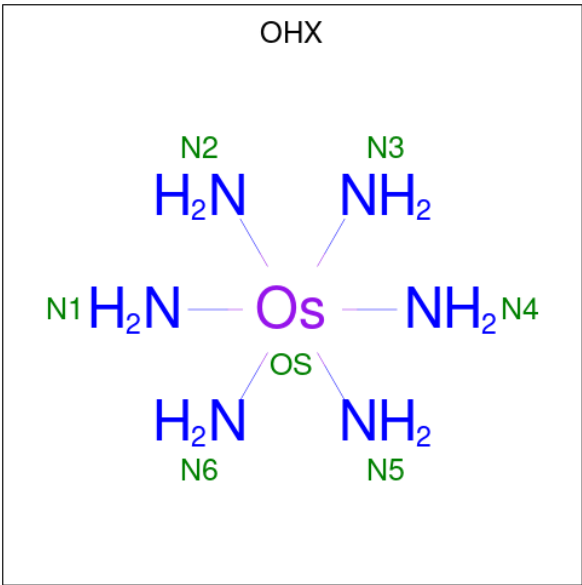
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	6	147	Total 147	Mg 147	0	0
85	s1	1	Total 1	Mg 1	0	0
85	s8	1	Total 1	Mg 1	0	0
85	c1	1	Total 1	Mg 1	0	0
85	c4	1	Total 1	Mg 1	0	0
85	c7	1	Total 1	Mg 1	0	0
85	c8	1	Total 1	Mg 1	0	0
85	c9	1	Total 1	Mg 1	0	0
85	d0	1	Total 1	Mg 1	0	0
85	d3	3	Total 3	Mg 3	0	0
85	d6	1	Total 1	Mg 1	0	0
85	sM	1	Total 1	Mg 1	0	0
85	5	495	Total 495	Mg 495	0	0
85	7	17	Total 17	Mg 17	0	0
85	8	14	Total 14	Mg 14	0	0
85	l2	3	Total 3	Mg 3	0	0
85	l3	3	Total 3	Mg 3	0	0
85	l4	1	Total 1	Mg 1	0	0
85	l5	3	Total 3	Mg 3	0	0
85	l7	1	Total 1	Mg 1	0	0
85	l9	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	m0	1	Total 1	Mg 1	0	0
85	m1	1	Total 1	Mg 1	0	0
85	m4	1	Total 1	Mg 1	0	0
85	m5	5	Total 5	Mg 5	0	0
85	m6	2	Total 2	Mg 2	0	0
85	m7	6	Total 6	Mg 6	0	0
85	n0	1	Total 1	Mg 1	0	0
85	n3	1	Total 1	Mg 1	0	0
85	n6	2	Total 2	Mg 2	0	0
85	n8	3	Total 3	Mg 3	0	0
85	n9	2	Total 2	Mg 2	0	0
85	o3	2	Total 2	Mg 2	0	0
85	o4	3	Total 3	Mg 3	0	0
85	o7	1	Total 1	Mg 1	0	0
85	q0	2	Total 2	Mg 2	0	0
85	q1	1	Total 1	Mg 1	0	0

- 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	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		

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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		
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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	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	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	C3	1	Total	N	Os	0	0
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86	C5	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	D9	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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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	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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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	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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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	4	1	Total	N	Os	0	0
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86	4	1	Total	N	Os	0	0
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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	M0	1	Total	N	Os	0	0
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86	M5	1	Total	N	Os	0	0
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86	M7	1	Total	N	Os	0	0
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86	M9	1	Total	N	Os	0	0
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86	N9	1	Total	N	Os	0	0
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86	O3	1	Total	N	Os	0	0
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86	O7	1	Total	N	Os	0	0
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86	O7	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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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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			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	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	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	7	1	Total	N	Os	0	0
			7	6	1		

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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	l3	1	Total	N	Os	0	0
			7	6	1		
86	l3	1	Total	N	Os	0	0
			7	6	1		
86	l4	1	Total	N	Os	0	0
			7	6	1		
86	l4	1	Total	N	Os	0	0
			7	6	1		
86	l5	1	Total	N	Os	0	0
			7	6	1		
86	l5	1	Total	N	Os	0	0
			7	6	1		
86	l5	1	Total	N	Os	0	0
			7	6	1		
86	l9	1	Total	N	Os	0	0
			7	6	1		
86	m0	1	Total	N	Os	0	0
			7	6	1		
86	m0	1	Total	N	Os	0	0
			7	6	1		
86	m1	1	Total	N	Os	0	0
			7	6	1		
86	m4	1	Total	N	Os	0	0
			7	6	1		
86	m5	1	Total	N	Os	0	0
			7	6	1		
86	m6	1	Total	N	Os	0	0
			7	6	1		
86	m7	1	Total	N	Os	0	0
			7	6	1		
86	n1	1	Total	N	Os	0	0
			7	6	1		

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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	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).

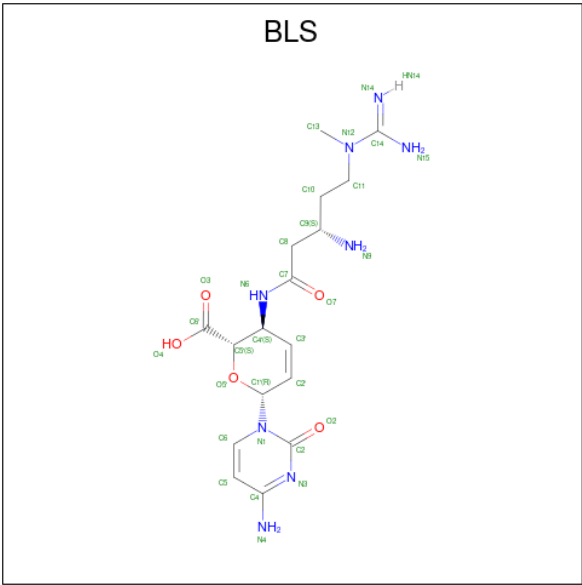
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	D6	1	Total	Zn	0	0
			1	1		
87	D7	1	Total	Zn	0	0
			1	1		
87	D9	1	Total	Zn	0	0
			1	1		
87	E1	1	Total	Zn	0	0
			1	1		
87	O7	1	Total	Zn	0	0
			1	1		
87	Q0	1	Total	Zn	0	0
			1	1		
87	Q2	1	Total	Zn	0	0
			1	1		
87	Q3	1	Total	Zn	0	0
			1	1		
87	d6	1	Total	Zn	0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

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

- Molecule 88 is BLASTICIDIN S (CCD ID: BLS) (formula: C₁₇H₂₆N₈O₅).

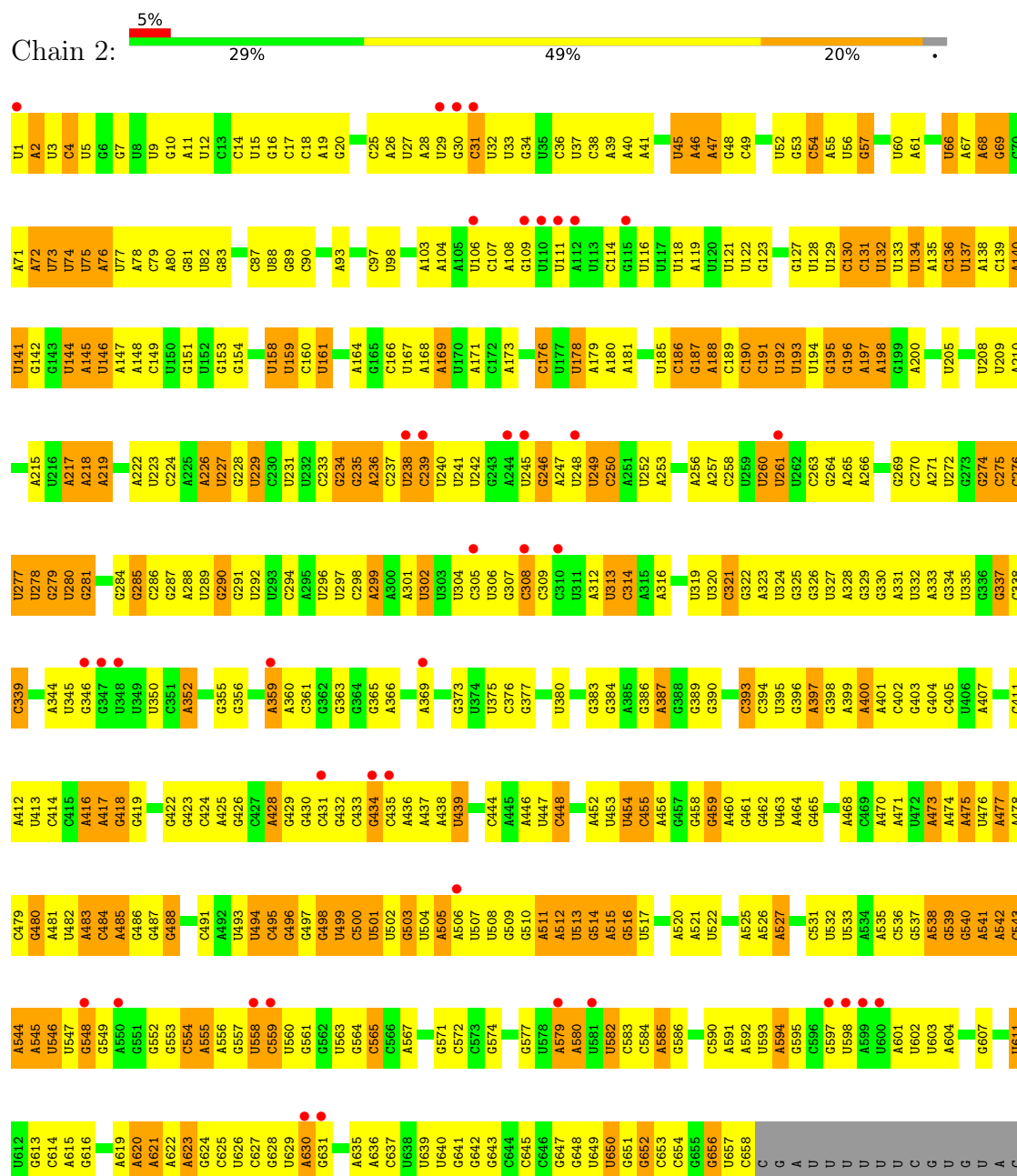


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
88	1	1	Total	C	N	O	0	0
			30	17	8	5		
88	5	1	Total	C	N	O	0	0
			30	17	8	5		

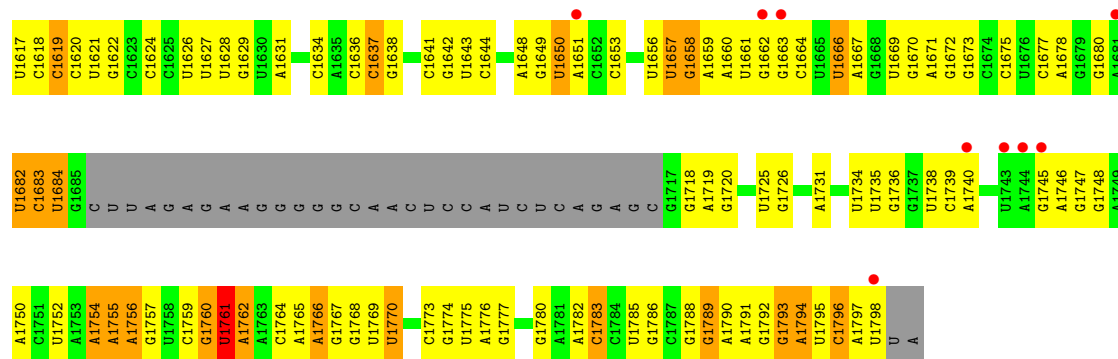
3 Residue-property plots

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.

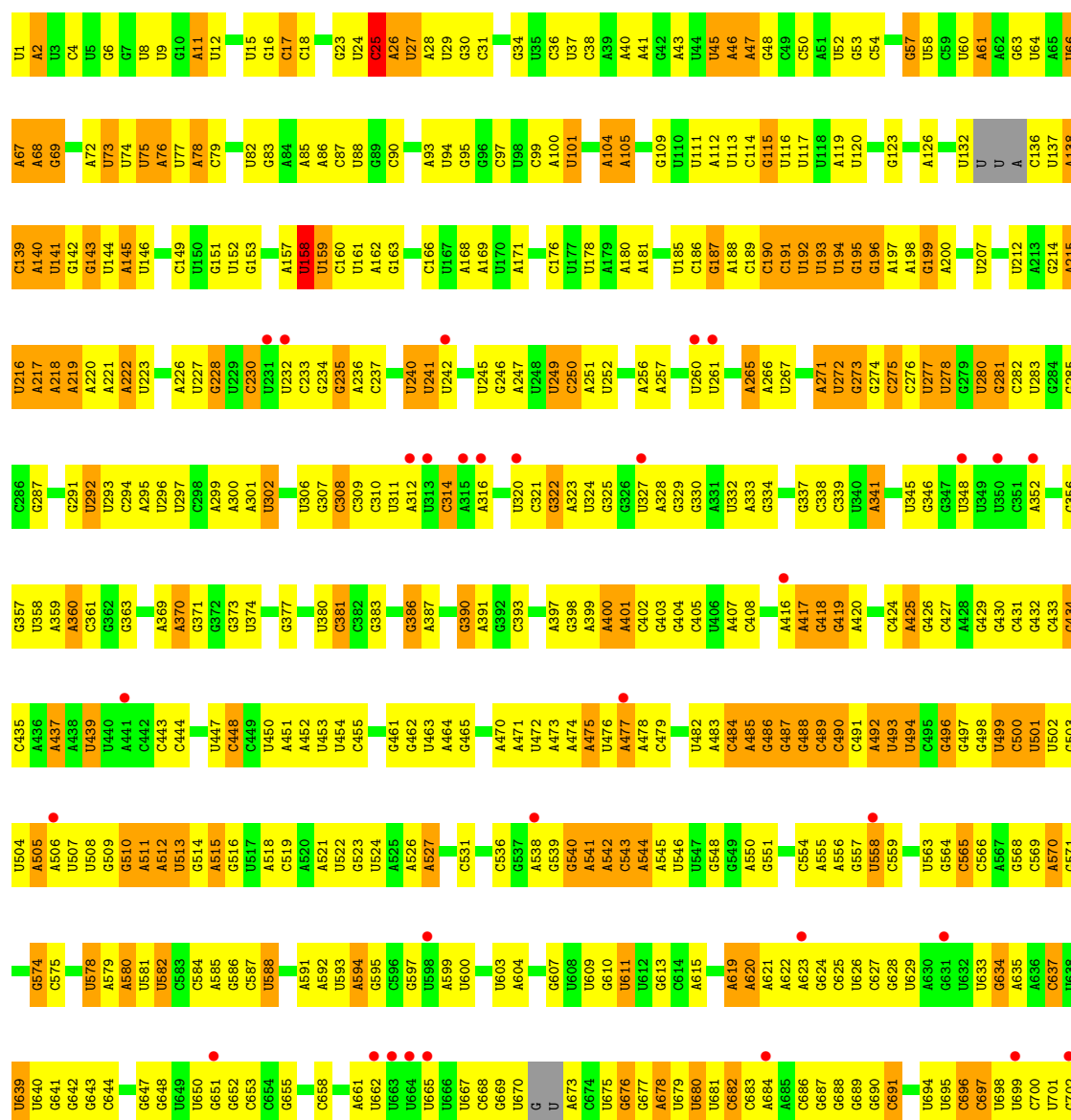
- Molecule 1: 18S ribosomal RNA

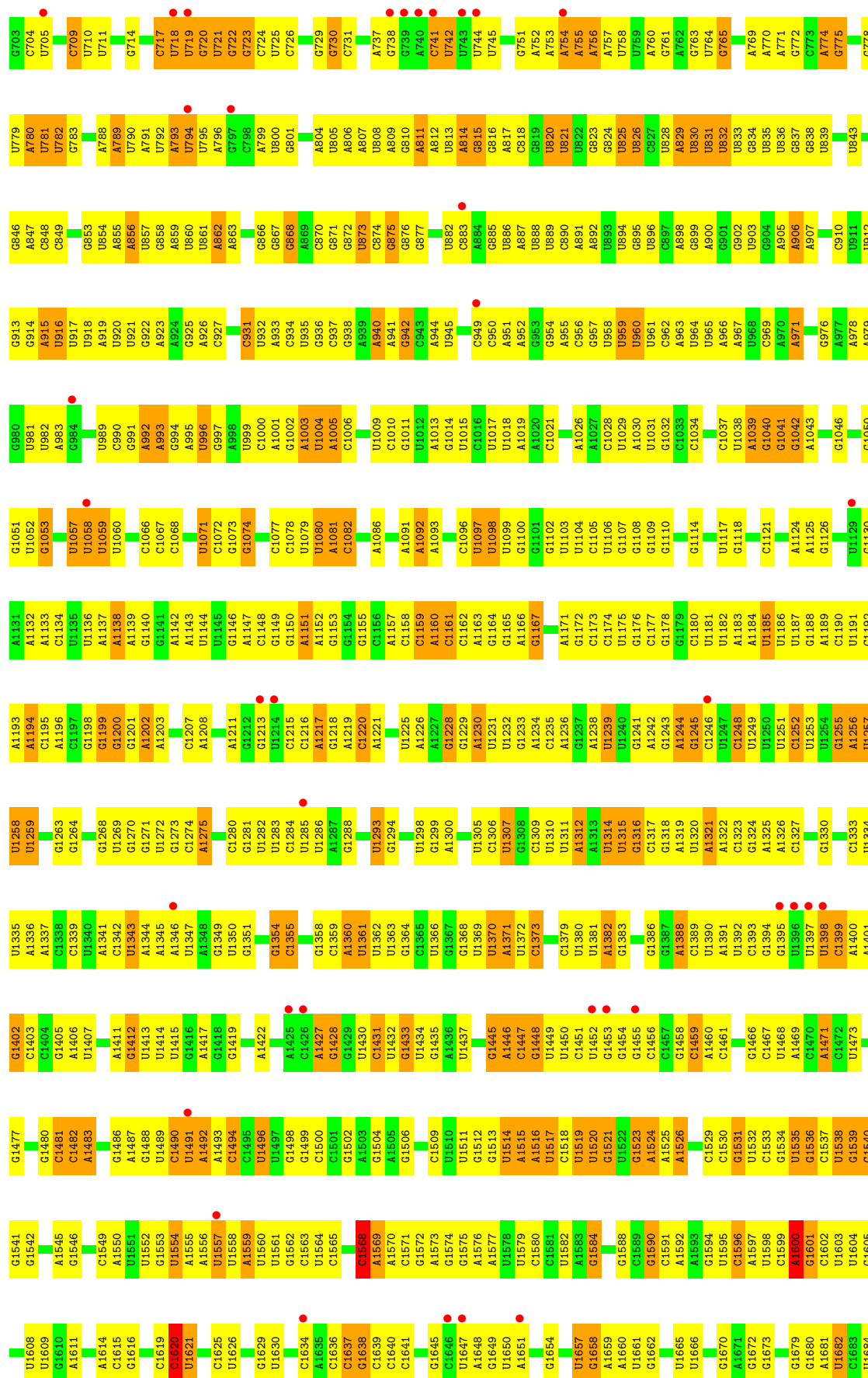


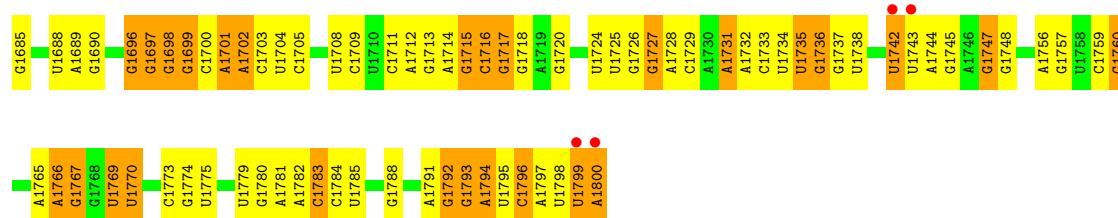
A1555	C1490	G1418	G1351	G1281	C1216	A1152	C1077	A1003	U932	A863	A799	C736	U
A1556	U1491	G1419	G1352	C1284	A1217	G1153	C1078	U1004	A933	U864	U800	A737	G676
U1557	U1492	G1420	U1353	C1285	A1218	G1154	U1080	A1005	C934	A865	G801	A738	G677
U1558	A1493	A1424	G1354	U1285	A1219	G1155	U1081	G1008	U935	G866	G802	G739	A678
U1559	U1497	C1425	C1355	U1286	C1222	A1156	C1082	U1009	G936	G867	A803	A740	U679
U1560	G1498	G1426	G1358	U1287	C1223	A1157	C1083	U1010	C937	G868	A804	C741	U680
U1561	G1498	A1427	C1359	G1288	A1223	C1158	G1086	G1011	G938	A869	U805	U742	U681
G1562	G1499	G1428	U1359	U1289	A1224	A1159	A1086	G1012	A941	C870	A806	U743	C682
C1563	C1500	G1429	U1360	U1290	A1225	G1160	A1087	A1013	G942	G871	A807	U744	C683
U1564	C1501	C1430	U1361	G1291	A1226	C1161	A1088	G1014	U947	G872	U808	U745	A694
C1565	C1431	C1431	U1362	C1292	A1227	C1162	A1089	U1015	C948	U873	A809	U746	A685
U1566	G1504	A1432	G1364	G1293	G1228	A1163	A1091	U1016	U949	G876	G810	C747	C686
U1567	A1505	G1433	C1365	G1294	G1229	G1164	A1092	U1017	C949	G877	A811	U748	G687
C1568	G1506	U1434	U1366	A1295	A1230	G1165	A1093	U1018	C950	U882	A812	U749	G688
A1569	G1507	U1435	G1367	A1296	U1231	A1166	G1094	A951	C951	U883	G815	U750	G689
U1570	U1508	A1436	G1368	U1297	U1232	A1167	U1095	A952	U950	G885	G816	A752	C692
C1569	C1509	U1437	U1369	G1299	G1233	U1168	U1096	C1021	A955	U886	A817	A753	U693
U1510	U1510	U1370	U1370	A1300	A1234	G1169	U1097	C1022	A956	U887	G818	A754	U694
U1511	U1511	U1371	U1371	U1303	C1235	G1172	U1098	A1026	U958	U888	C819	A755	U695
G1512	G1512	U1372	U1372	U1304	A1238	C1173	U1099	A1027	U959	U889	U820	A756	C696
U1513	U1441	U1442	U1373	U1305	U1239	C1174	G1100	C1028	U960	A891	U821	U759	C697
A1514	U1514	U1443	C1379	G1307	U1240	U1175	G1101	U1031	U964	A892	U822	A760	U698
U1515	A1515	A1444	U1380	G1308	G1241	C1176	G1102	G1032	U965	U893	G823	G761	U699
A1516	A1516	G1445	U1381	U1310	A1242	C1177	G1103	G1033	U966	U894	G824	A762	U701
U1517	U1517	A1446	U1382	A1312	G1243	G1178	U1104	C1034	U967	U895	G825	G763	G702
C1518	C1518	C1447	A1383	U1313	A1244	C1179	U1105	A1035	A967	U896	U826	U764	G703
U1519	U1519	U1448	A1384	A1314	G1245	C1180	U1106	A1036	U968	C927	U827	G765	G704
A1520	A1520	G1449	G1385	U1315	U1246	U1181	G1107	C1037	U969	U898	U828	U766	U705
G1521	G1521	C1450	G1386	U1316	U1247	C1182	G1108	U1038	A970	G899	A829	U767	A706
U1585	U1585	C1451	G1387	G1316	U1248	A1183	G1109	A1039	A973	A900	U830	C768	A707
A1586	A1586	U1452	C1388	C1317	U1249	A1184	G1114	G1040	A974	G901	U831	C769	C708
A1587	A1524	U1453	C1389	U1320	U1250	U1185	A1125	G1041	U975	G902	U832	A771	C709
U1588	U1525	C1456	U1390	A1321	U1251	U1186	C1126	G1042	C975	A905	G834	G772	U710
C1589	A1526	G1457	U1391	U1322	C1252	U1187	G1127	A1043	G976	A906	U835	C773	U711
U1590	C1527	G1458	U1392	A1323	U1253	G1188	C1128	U1052	A977	U907	U838	A774	G712
C1591	U1528	C1459	U1393	G1324	U1254	U1191	U1129	U1053	A978	U908	U839	G775	A713
A1592	C1529	A1460	C1394	G1325	G1255	C1192	G1130	U1054	A979	U909	U843	C776	U714
U1595	G1530	C1461	G1395	A1326	A1256	C1193	U1131	U1058	A980	U912	U844	G778	U715
C1596	U1532	A1469	G1396	U1327	U1257	A1192	G1132	U1059	U981	G914	A844	U779	C716
A1597	C1533	C1470	U1397	A1328	U1258	C1194	A1133	U1060	U982	A915	G845	U781	C717
U1598	G1534	A1471	U1398	G1329	U1259	C1195	C1134	A1061	A983	U916	G846	U782	U718
C1599	U1535	C1472	C1399	C1332	G1261	C1196	U1137	A1062	G986	U917	G847	U783	G720
A1600	G1536	U1473	A1400	U1335	U1262	C1197	U1138	A1063	G987	U918	C948	G722	U721
G1601	C1537	G1474	A1401	U1336	G1265	G1198	A1139	U1064	A988	U919	C949	U785	G723
C1602	U1538	A1475	G1402	A1337	U1266	C1199	U1140	G991	U989	U920	A850	C786	G724
U1603	G1539	C1476	C1403	A1338	G1267	G1200	G1141	U1065	C990	U921	U851	G787	U725
U1604	G1540	G1477	C1404	U1339	U1268	A1202	A1142	A1066	A992	G924	C852	A788	C726
G1605	G1541	A1478	U1407	C1340	U1269	A1203	A1143	C1067	A993	A925	U854	U789	U727
C1606	G1542	A1479	G1408	U1341	G1270	C1207	U1144	C1068	G984	G926	A855	U792	G728
G1607	A1545	C1481	C1409	A1342	G1273	A1208	U1145	A1069	U985	A927	A856	A793	G729
U1608	U1609	A1482	A1410	A1343	U1274	C1209	U1146	G1073	C997	C928	U857	U794	G730
G1610	G1610	A1483	A1411	A1344	A1275	G1210	A1147	C1074	C1000	A929	U858	U795	G731
A1611	C1549	G1484	G1412	A1345	U1276	A1211	C1148	C1075	A1001	G797	U859	A796	G732
G1612	U1550	C1485	U1413	A1346	U1277	G1212	G1149	A1076	C931	A733	U861	C798	A734
U1613	U1551	G1486	U1414	U1347	G1278	U1213	U1150						
A1614	U1552	A1487	U1415	G1348	G1279	G1214							
C1615	G1553	G1488	G1416	A1349	C1280	C1215							
G1616	U1554	U1489	A1417	U1350									



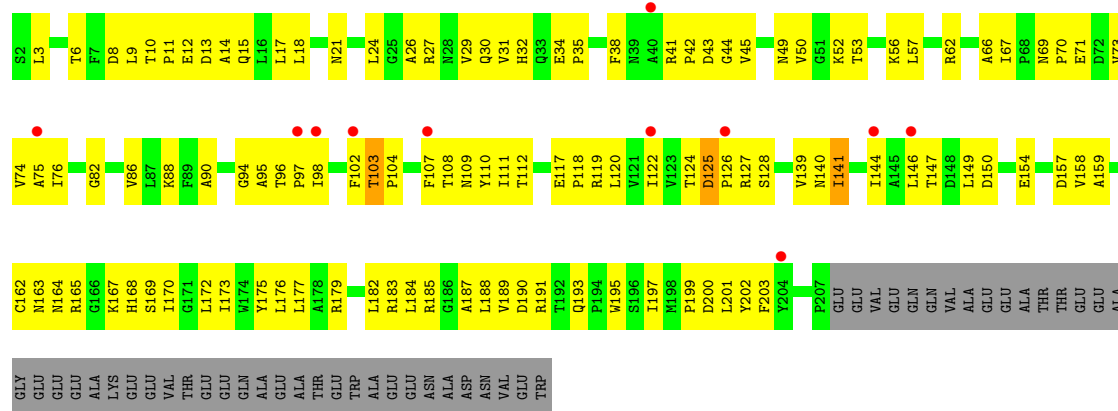
• Molecule 1: 18S ribosomal RNA



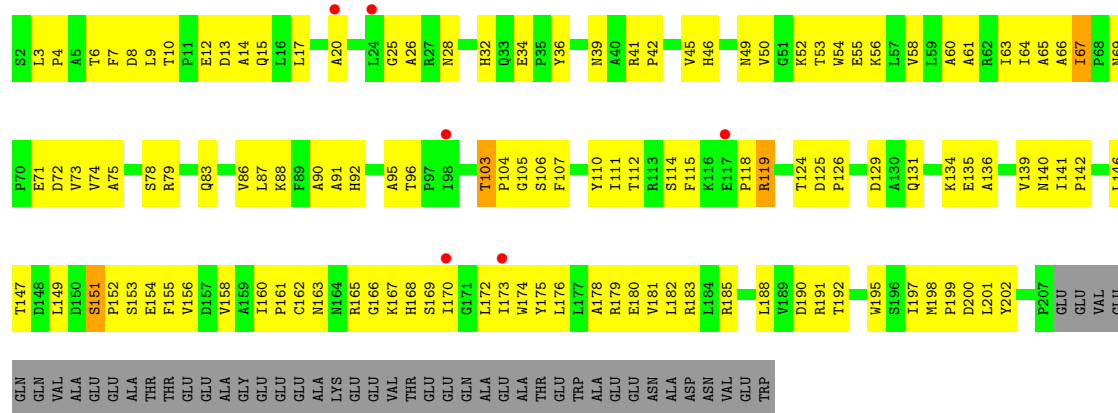
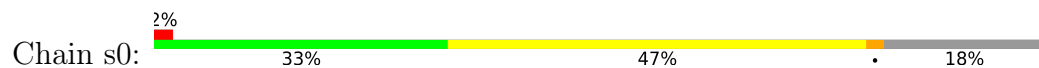




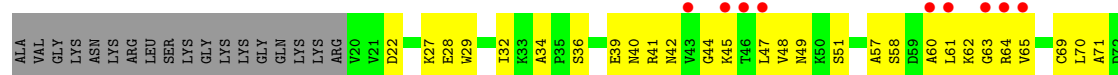
• Molecule 2: 40S ribosomal protein S0-A

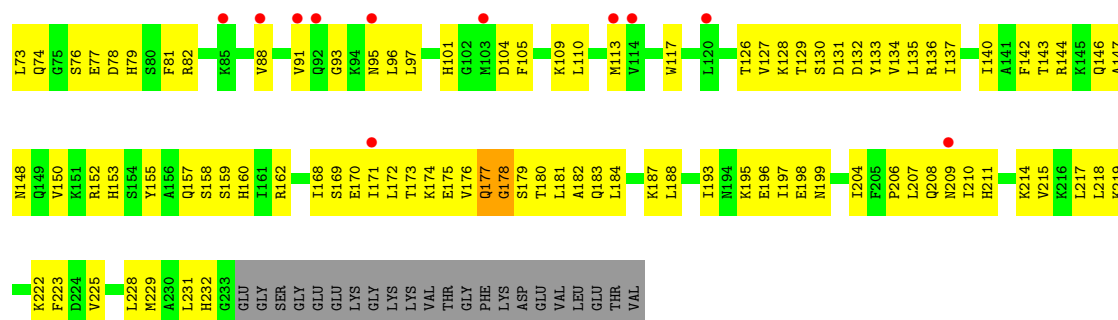


• Molecule 2: 40S ribosomal protein S0-A

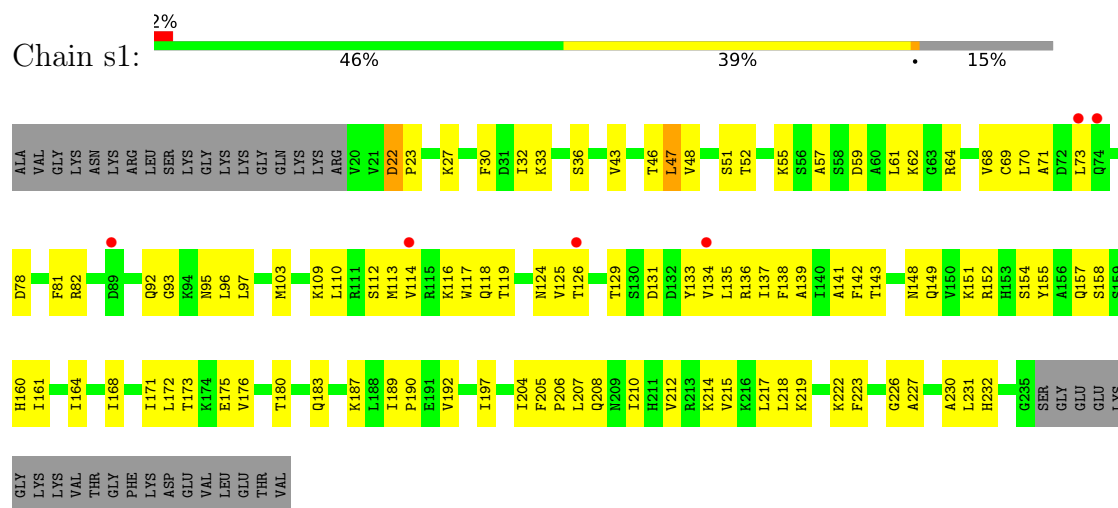


• Molecule 3: 40S ribosomal protein S1-A

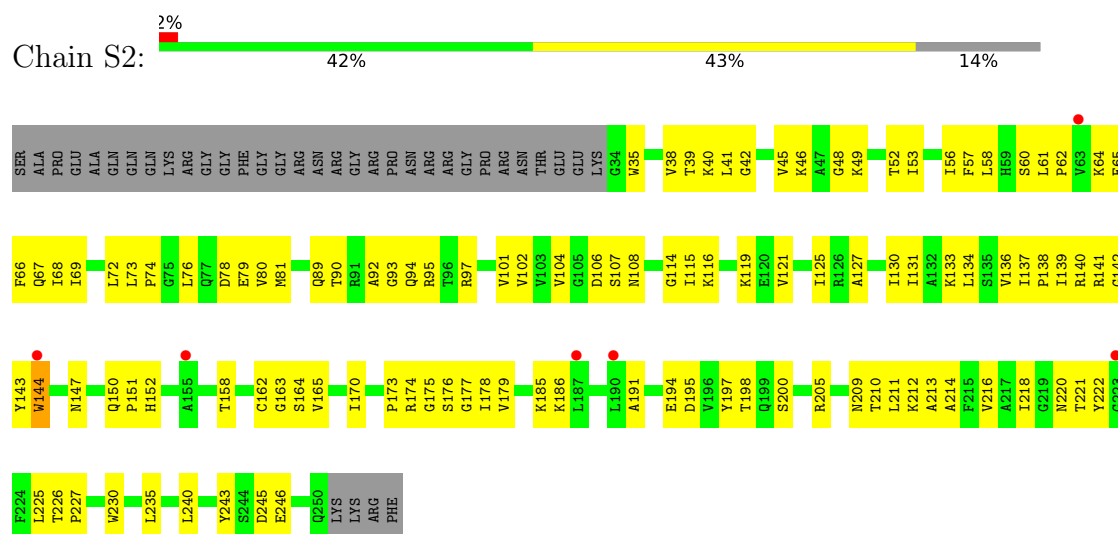




• Molecule 3: 40S ribosomal protein S1-A

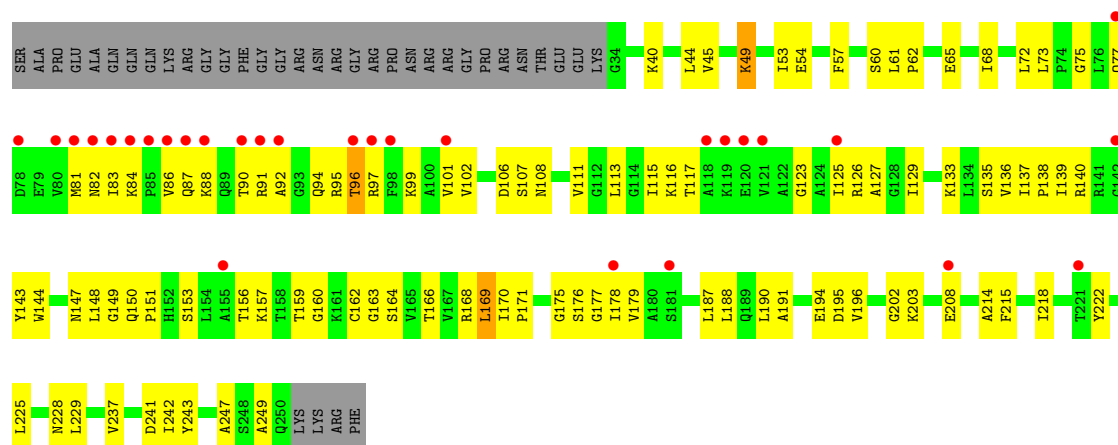


• Molecule 4: 40S ribosomal protein S2

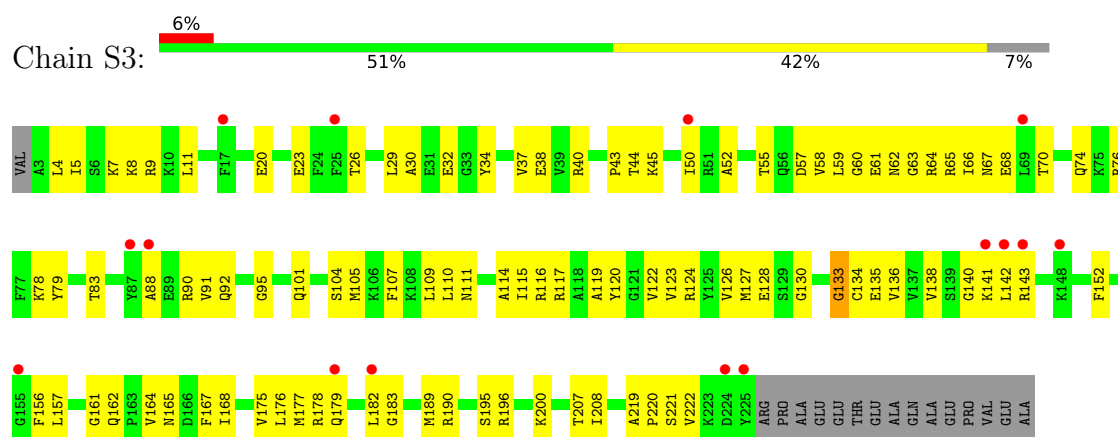


• Molecule 4: 40S ribosomal protein S2

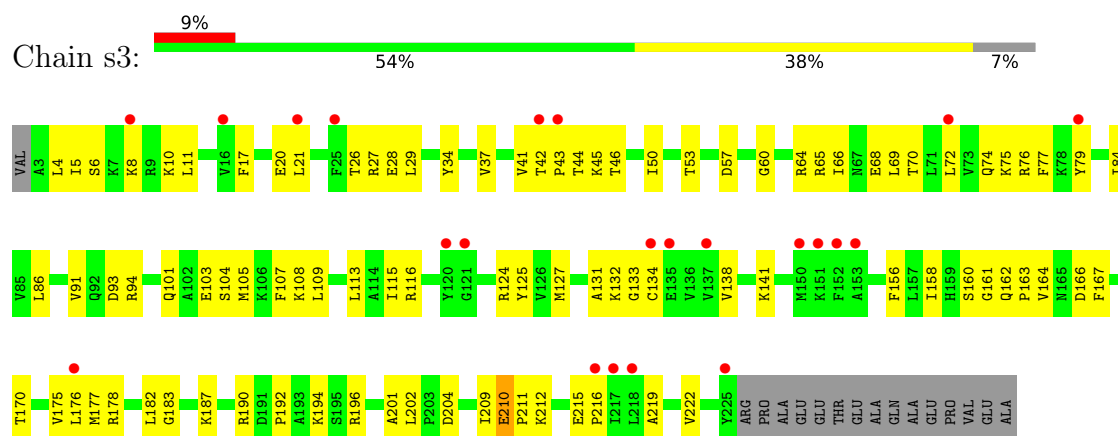




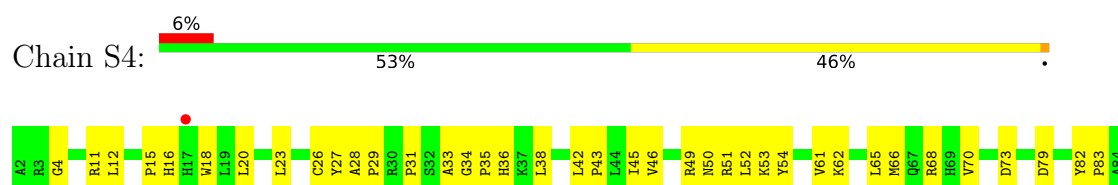
• Molecule 5: 40S ribosomal protein S3

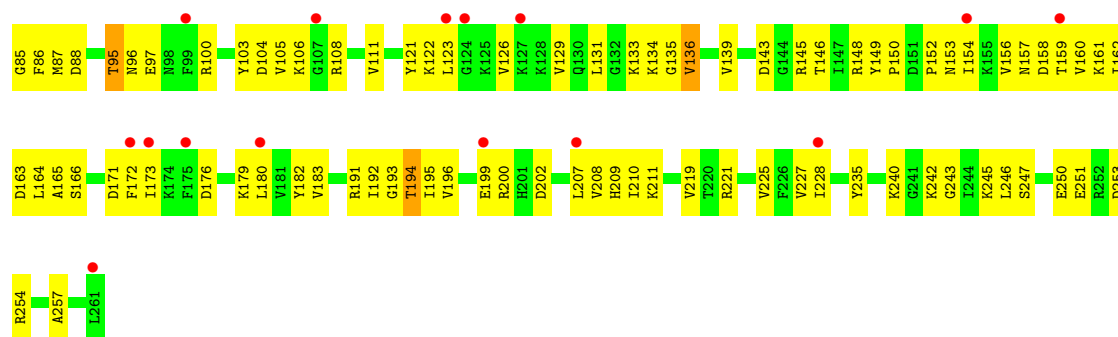


• Molecule 5: 40S ribosomal protein S3

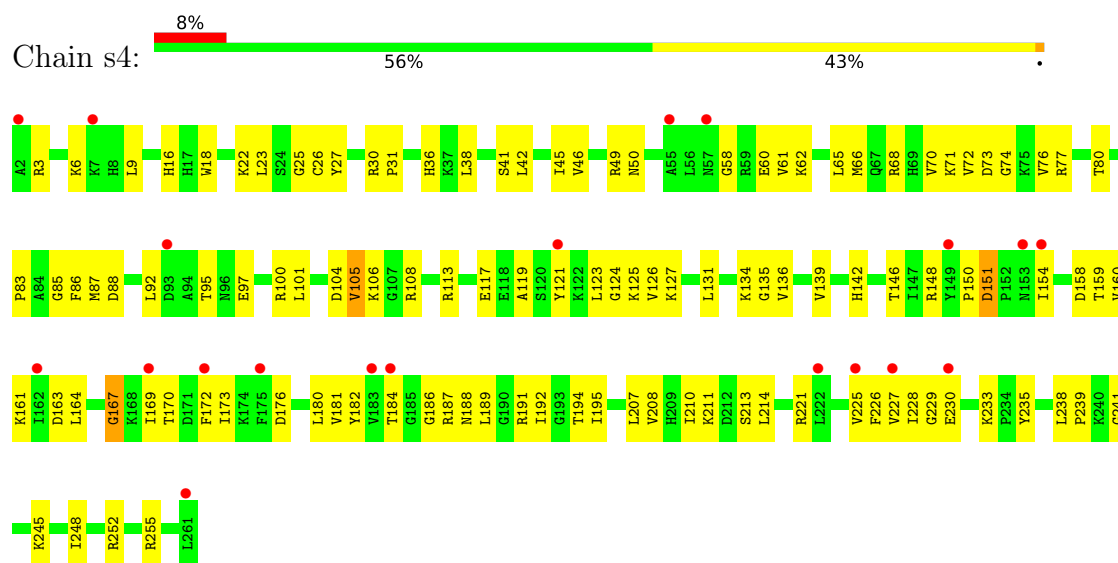


• Molecule 6: 40S ribosomal protein S4-A

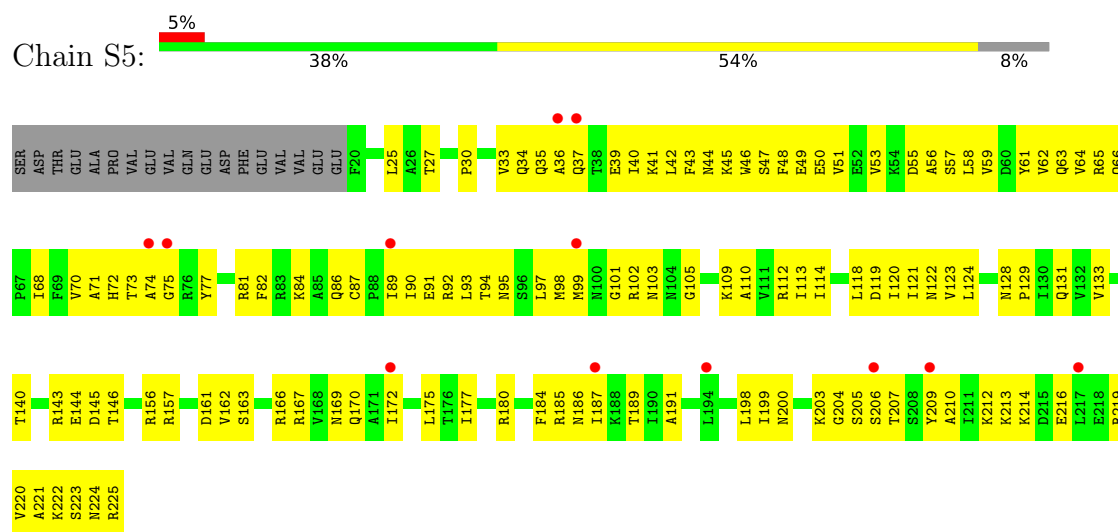




• Molecule 6: 40S ribosomal protein S4-A

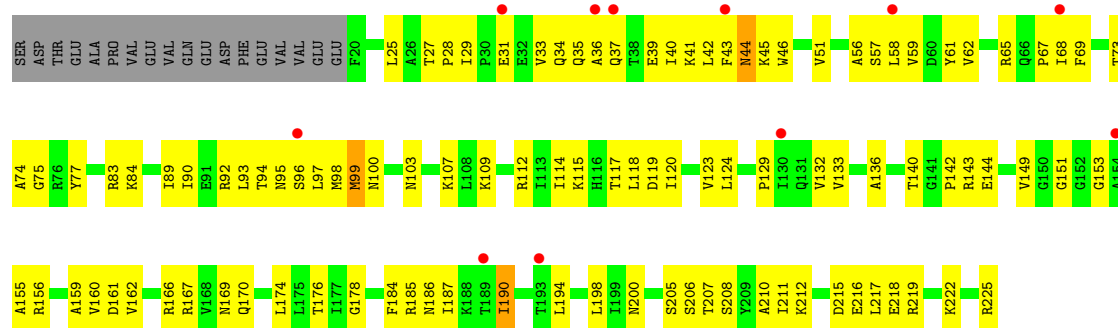


• Molecule 7: 40S ribosomal protein S5

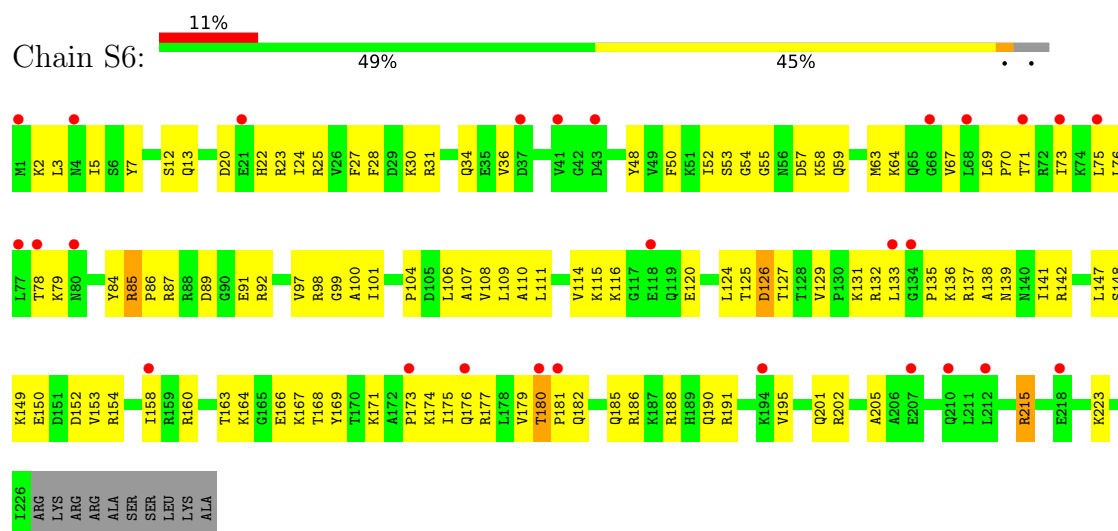


• Molecule 7: 40S ribosomal protein S5

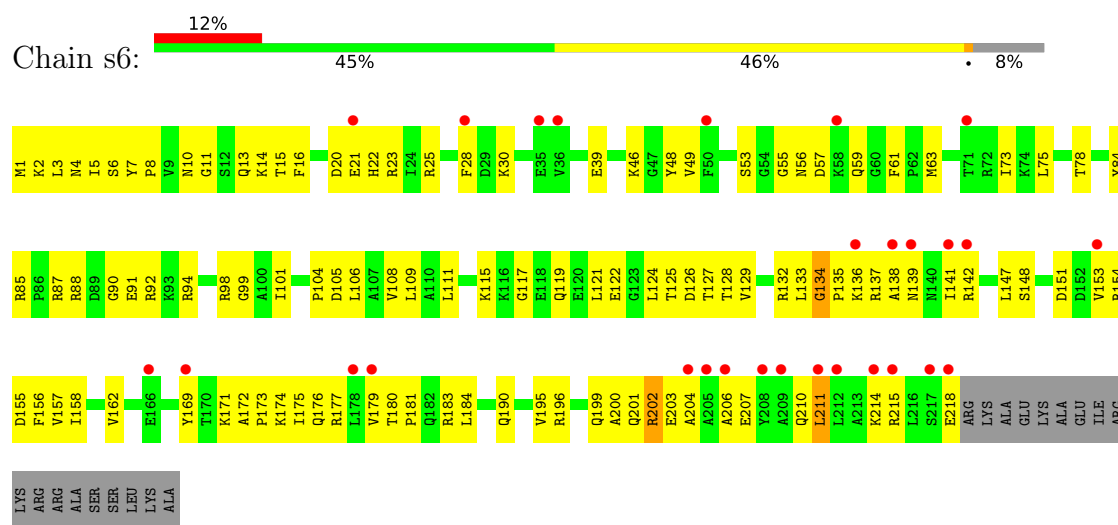




• Molecule 8: 40S ribosomal protein S6-A

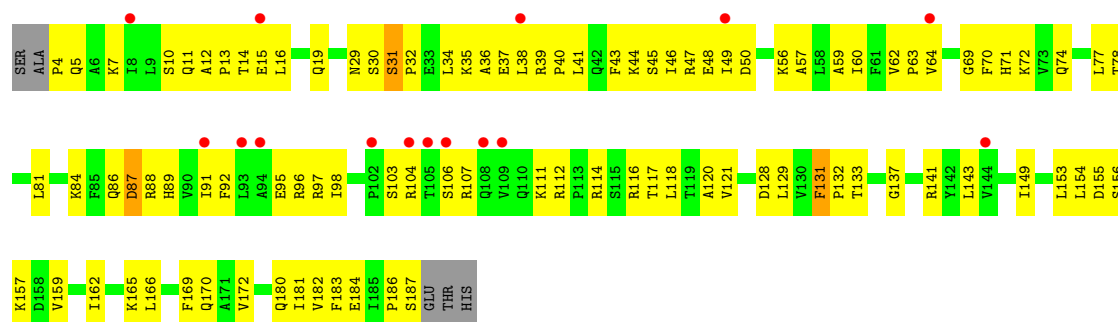


• Molecule 8: 40S ribosomal protein S6-A

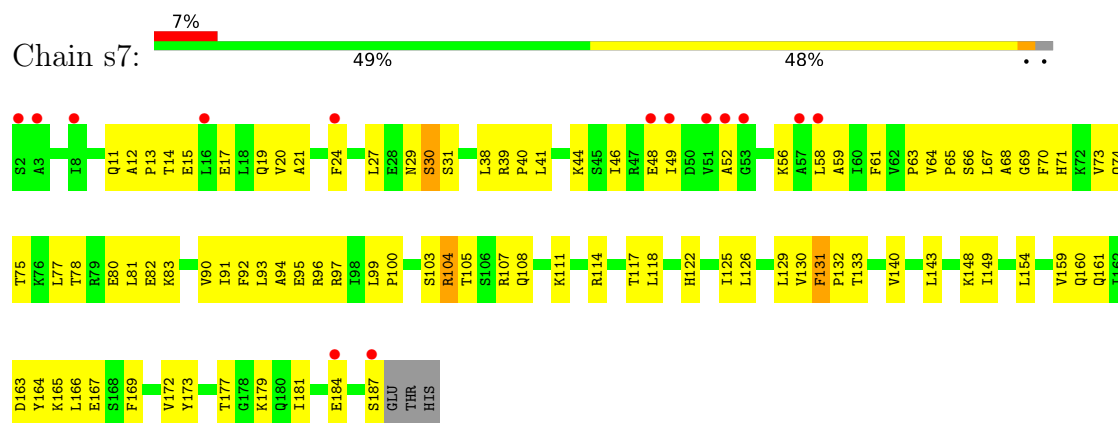


• Molecule 9: 40S ribosomal protein S7-A

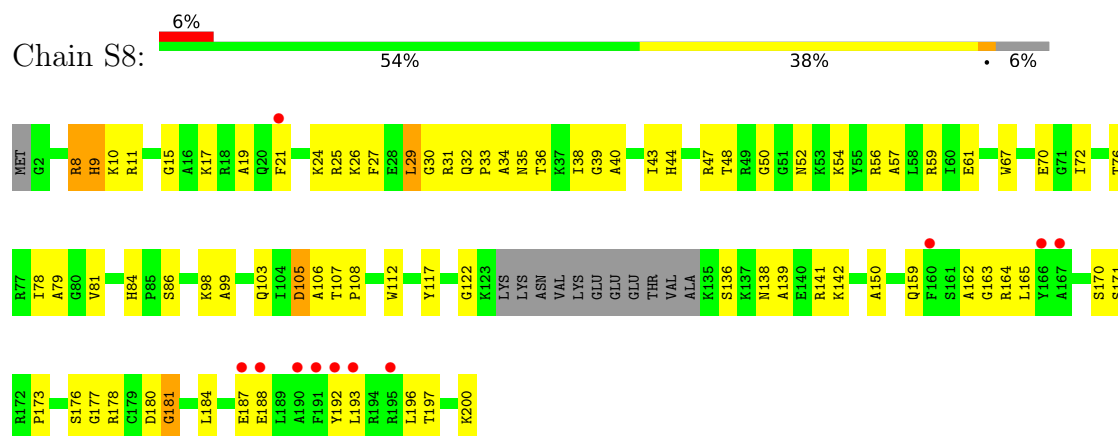




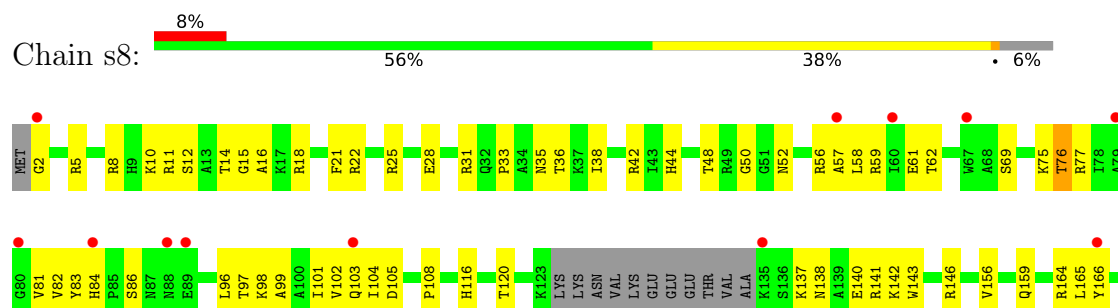
• Molecule 9: 40S ribosomal protein S7-A

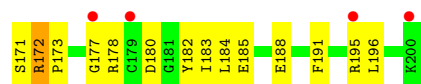


• Molecule 10: 40S ribosomal protein S8-A

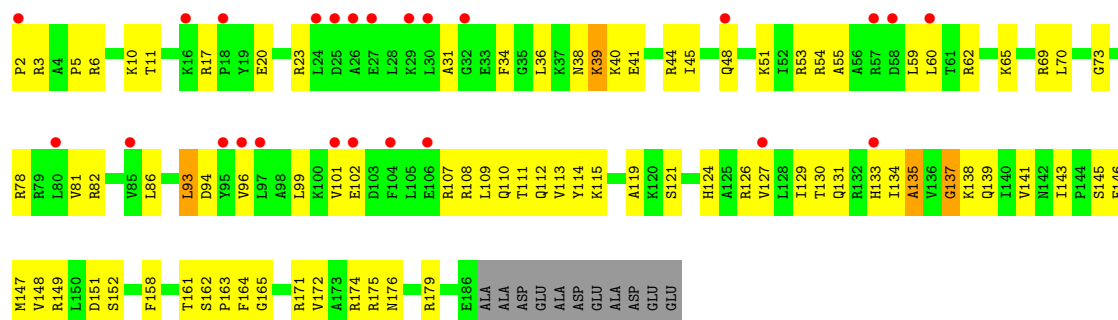


• Molecule 10: 40S ribosomal protein S8-A

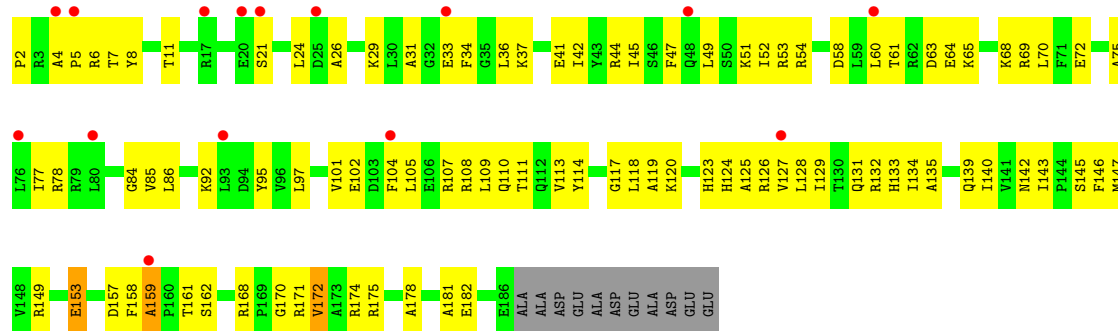




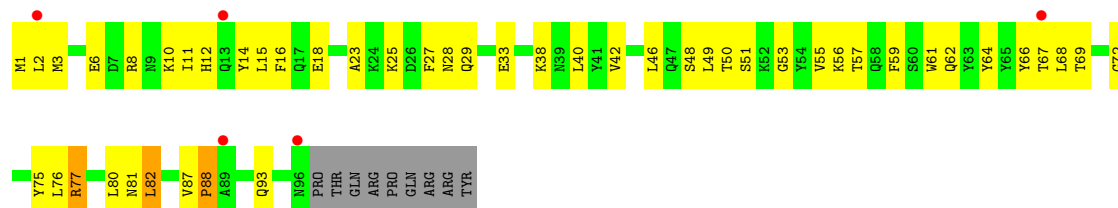
• Molecule 11: 40S ribosomal protein S9-A



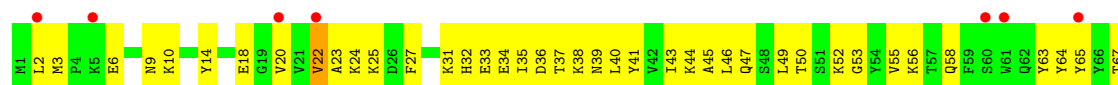
• Molecule 11: 40S ribosomal protein S9-A

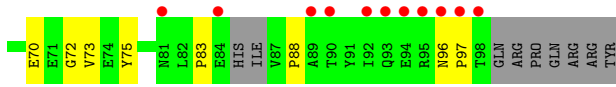


• Molecule 12: 40S ribosomal protein S10-A

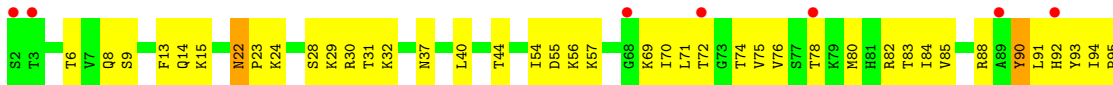


• Molecule 12: 40S ribosomal protein S10-A

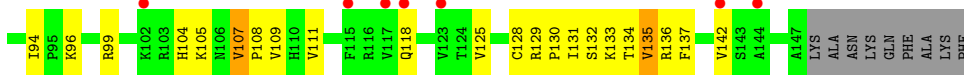
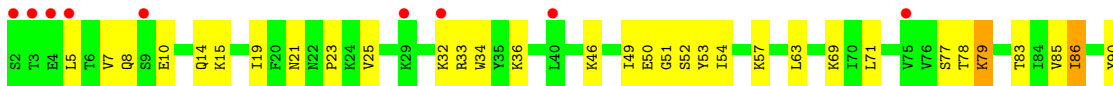




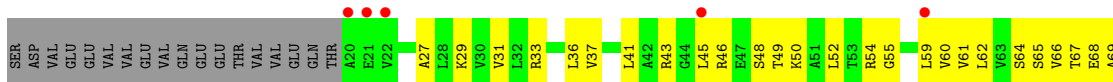
- Molecule 13: 40S ribosomal protein S11-A



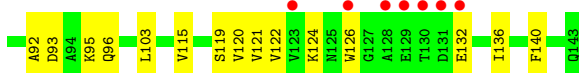
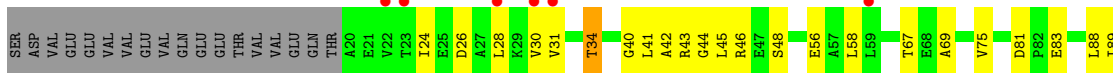
- Molecule 13: 40S ribosomal protein S11-A



- Molecule 14: 40S ribosomal protein S12

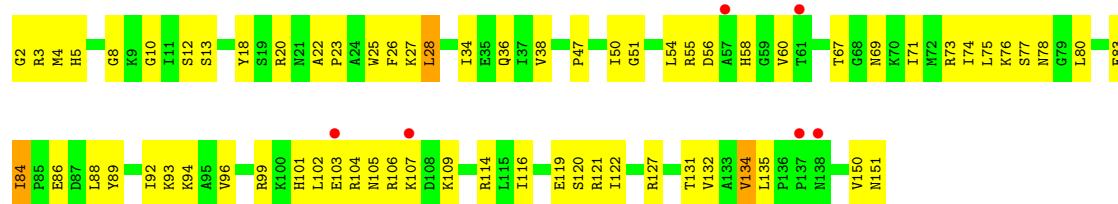


- Molecule 14: 40S ribosomal protein S12

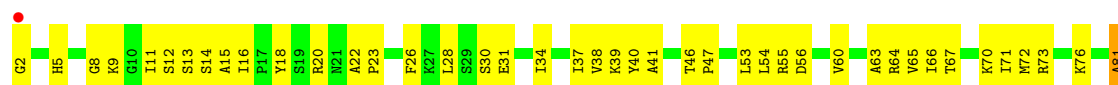


- Molecule 15: 40S ribosomal protein S13

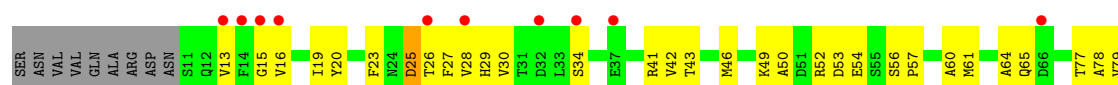




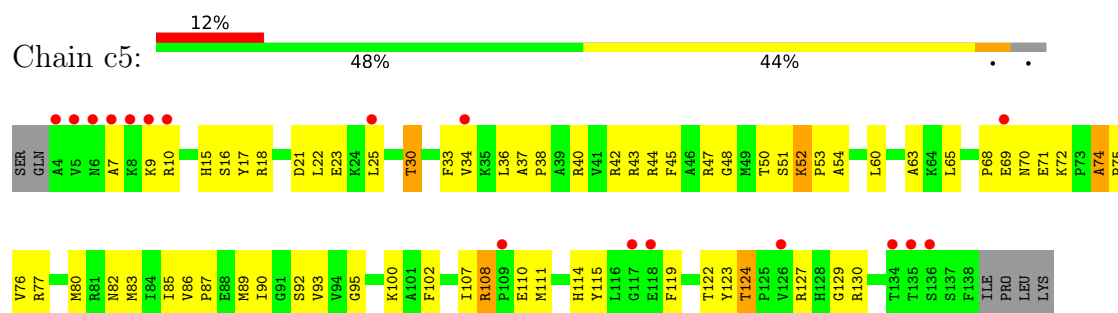
• Molecule 15: 40S ribosomal protein S13



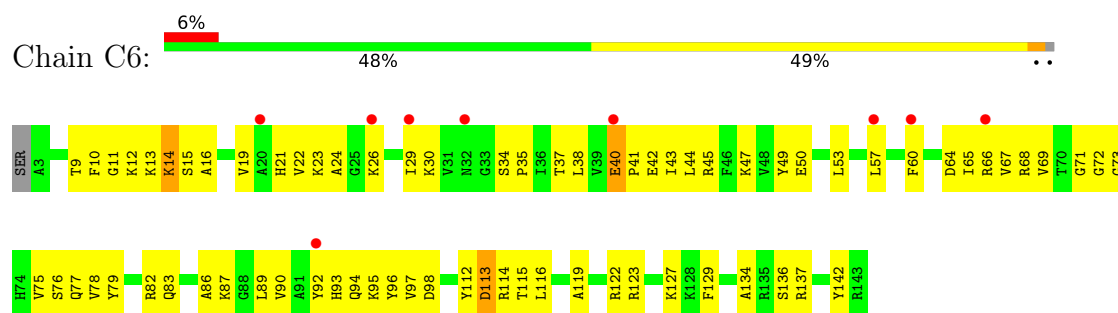
• Molecule 16: 40S ribosomal protein S14-A



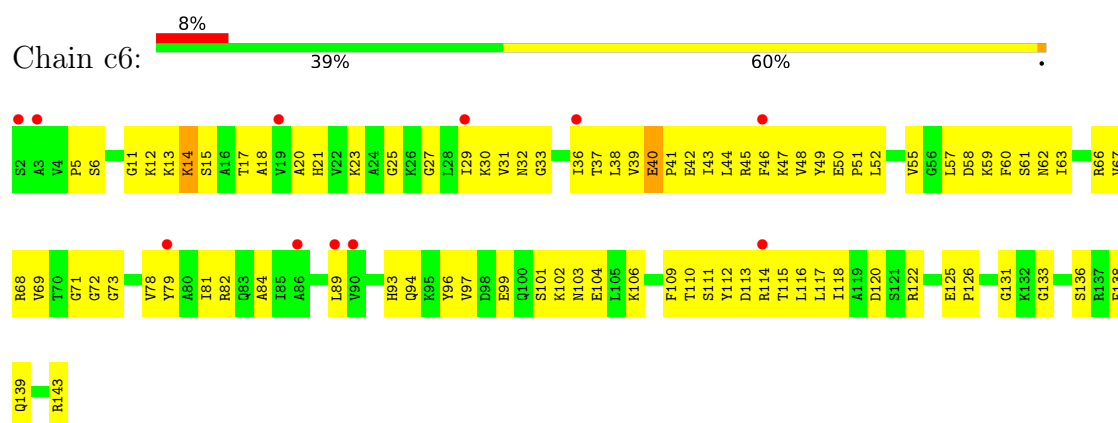
- Molecule 17: 40S ribosomal protein S15



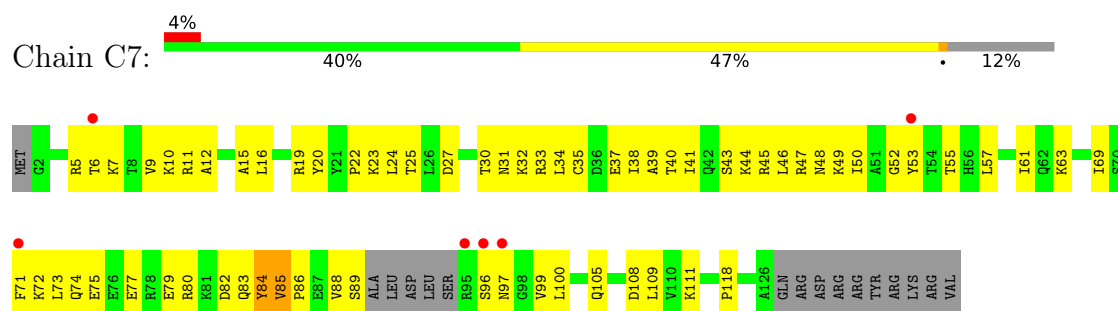
- Molecule 18: 40S ribosomal protein S16-A



- Molecule 18: 40S ribosomal protein S16-A

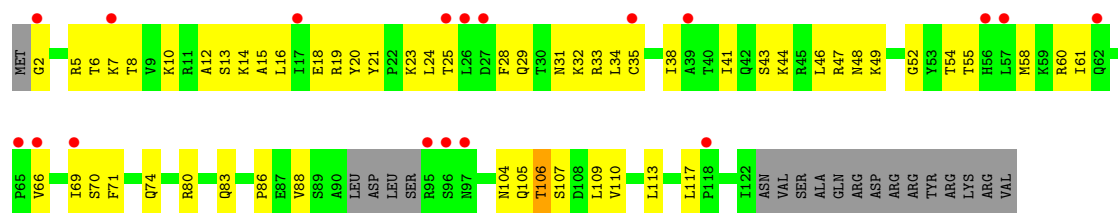


- Molecule 19: 40S ribosomal protein S17-A

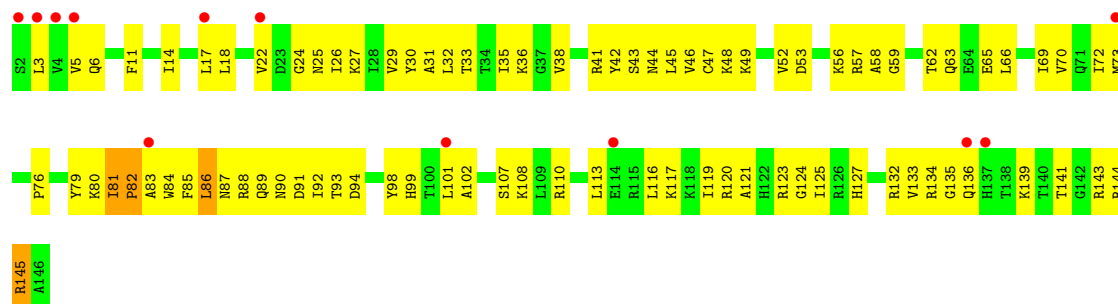


- Molecule 19: 40S ribosomal protein S17-A

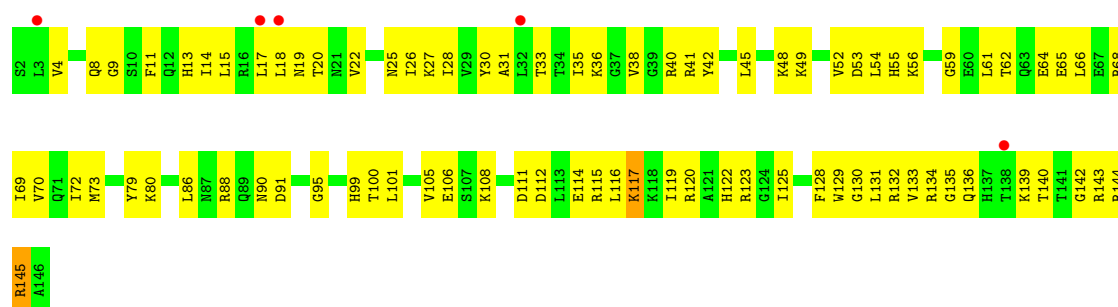




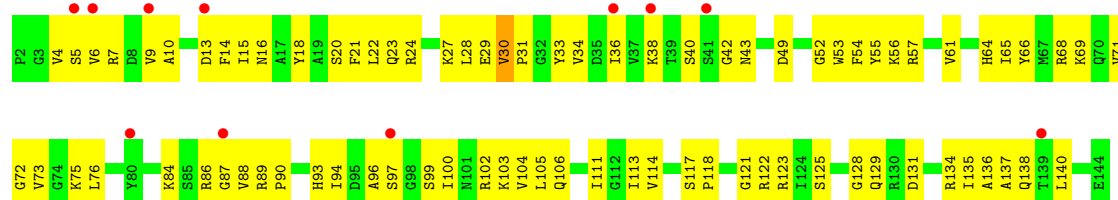
• Molecule 20: 40S ribosomal protein S18-A



• Molecule 20: 40S ribosomal protein S18-A

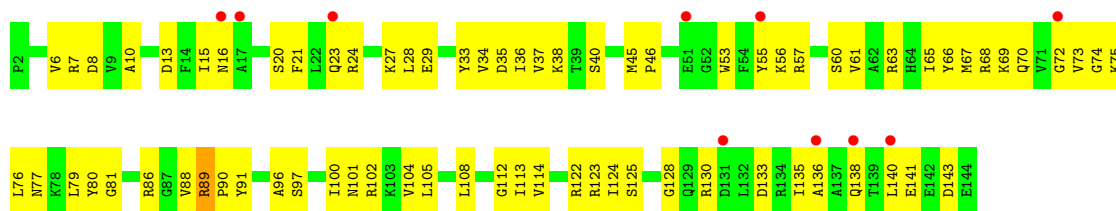


• Molecule 21: 40S ribosomal protein S19-A

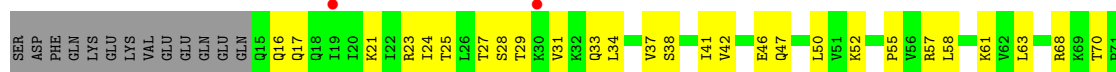
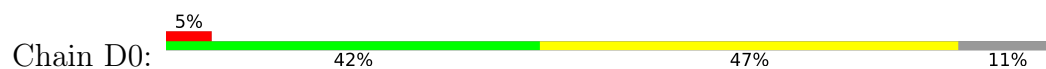


• Molecule 21: 40S ribosomal protein S19-A

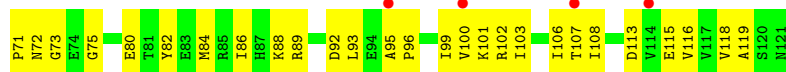
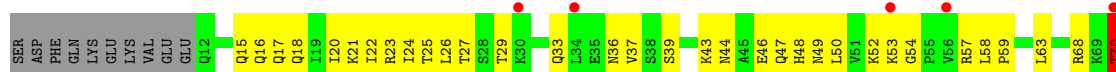
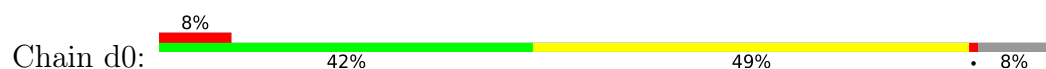




• Molecule 22: 40S ribosomal protein S20



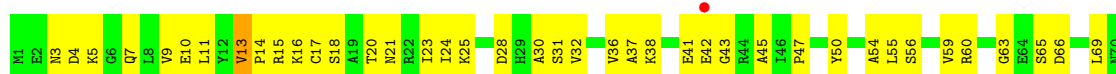
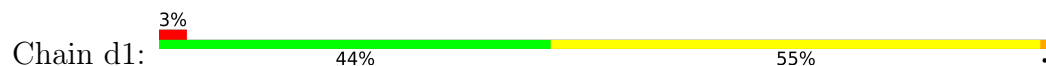
• Molecule 22: 40S ribosomal protein S20



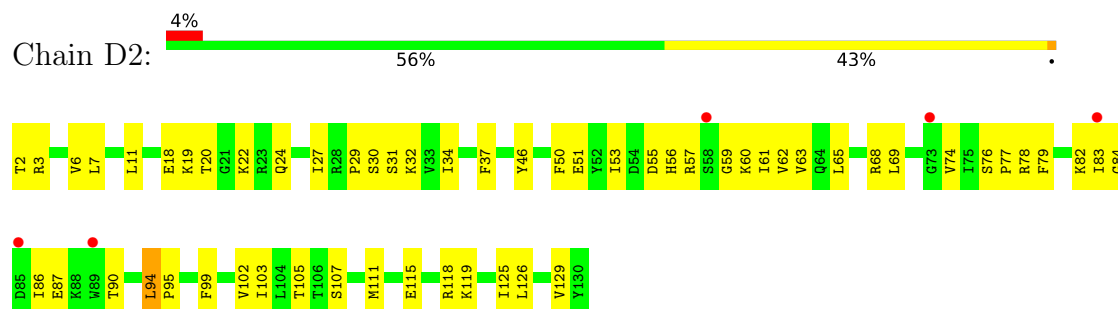
• Molecule 23: 40S ribosomal protein S21-A



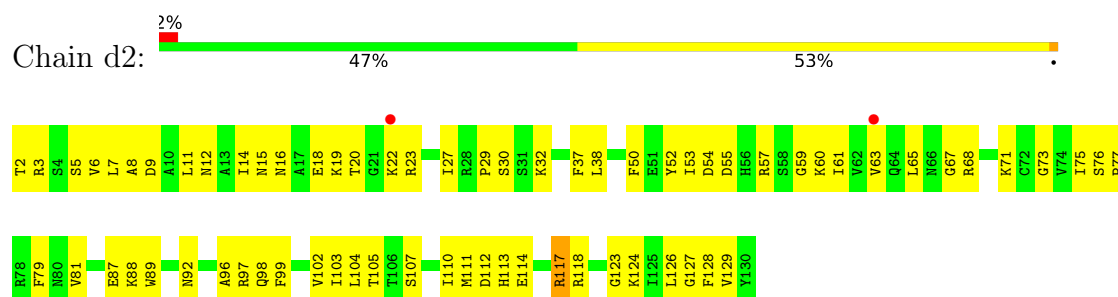
• Molecule 23: 40S ribosomal protein S21-A



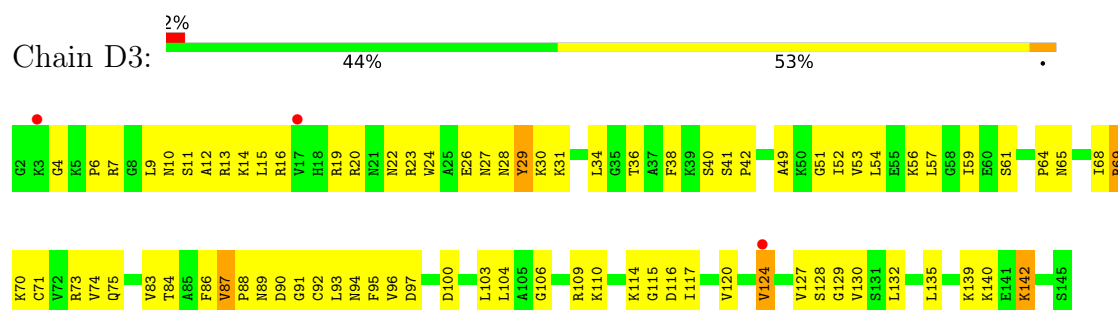
- Molecule 24: 40S ribosomal protein S22-A



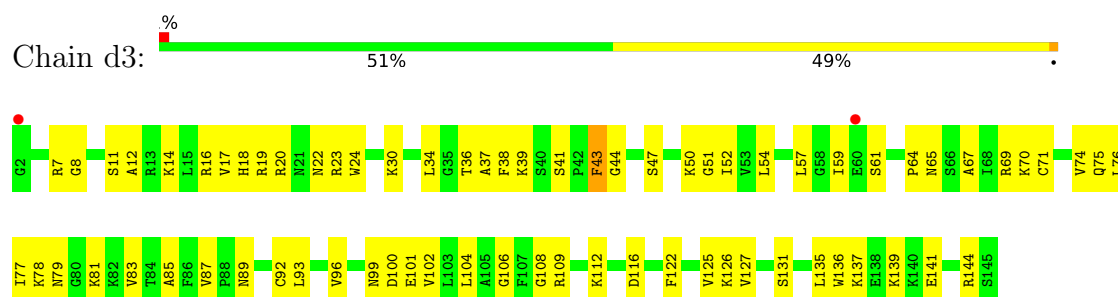
- Molecule 24: 40S ribosomal protein S22-A



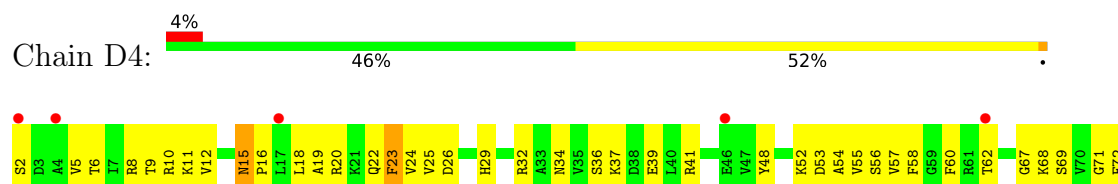
- Molecule 25: 40S ribosomal protein S23-A



- Molecule 25: 40S ribosomal protein S23-A



- Molecule 26: 40S ribosomal protein S24-A

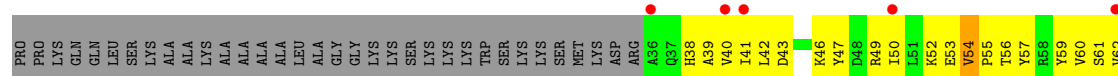
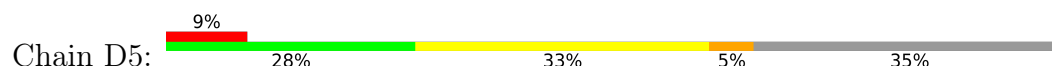




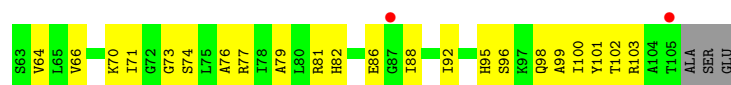
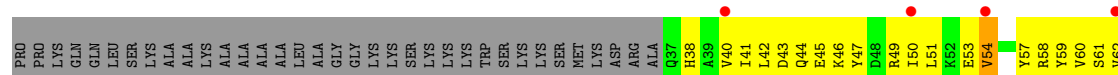
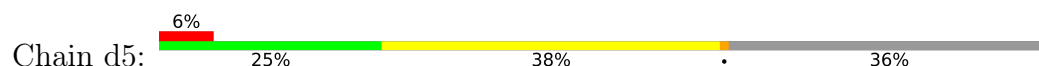
• Molecule 26: 40S ribosomal protein S24-A



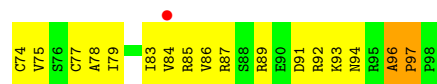
• Molecule 27: 40S ribosomal protein S25-A



• Molecule 27: 40S ribosomal protein S25-A

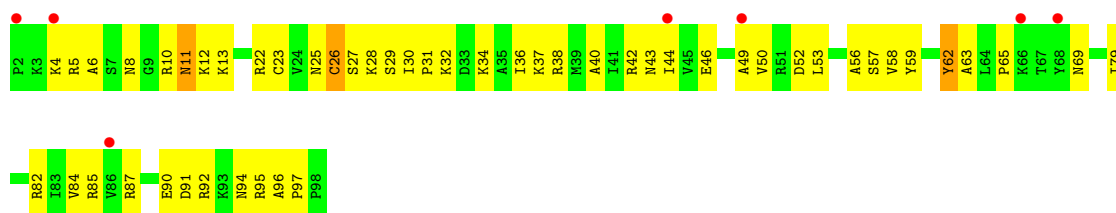


• Molecule 28: 40S ribosomal protein S26-B

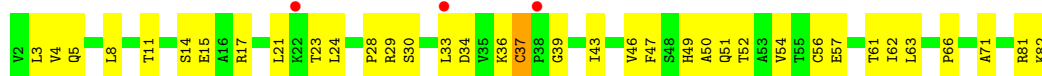


• Molecule 28: 40S ribosomal protein S26-B





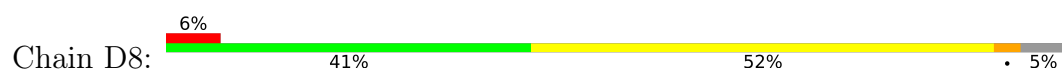
- Molecule 29: 40S ribosomal protein S27-A



- Molecule 29: 40S ribosomal protein S27-A



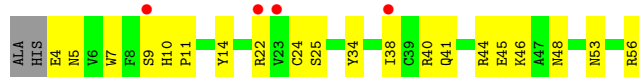
- Molecule 30: 40S ribosomal protein S28-A



- Molecule 30: 40S ribosomal protein S28-A



- Molecule 31: 40S ribosomal protein S29-A

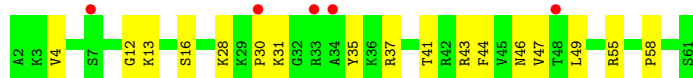
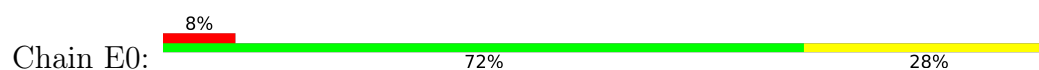


- Molecule 31: 40S ribosomal protein S29-A





- Molecule 32: 40S ribosomal protein S30-A



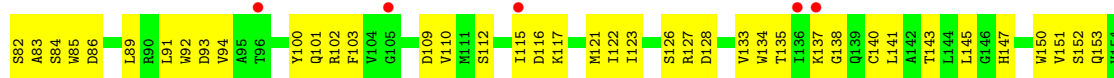
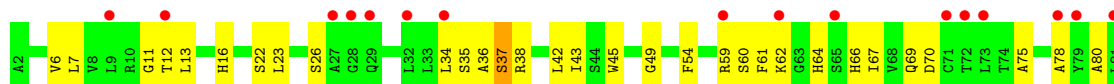
- Molecule 33: Ubiquitin-40S ribosomal protein S31



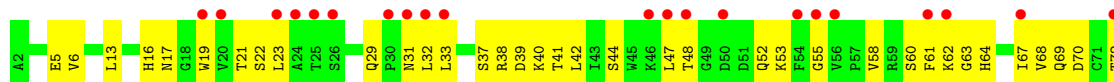
- Molecule 33: Ubiquitin-40S ribosomal protein S31

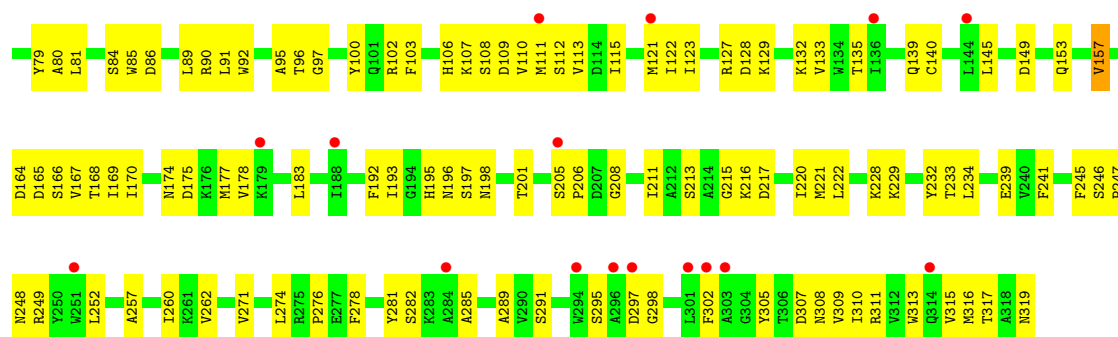


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

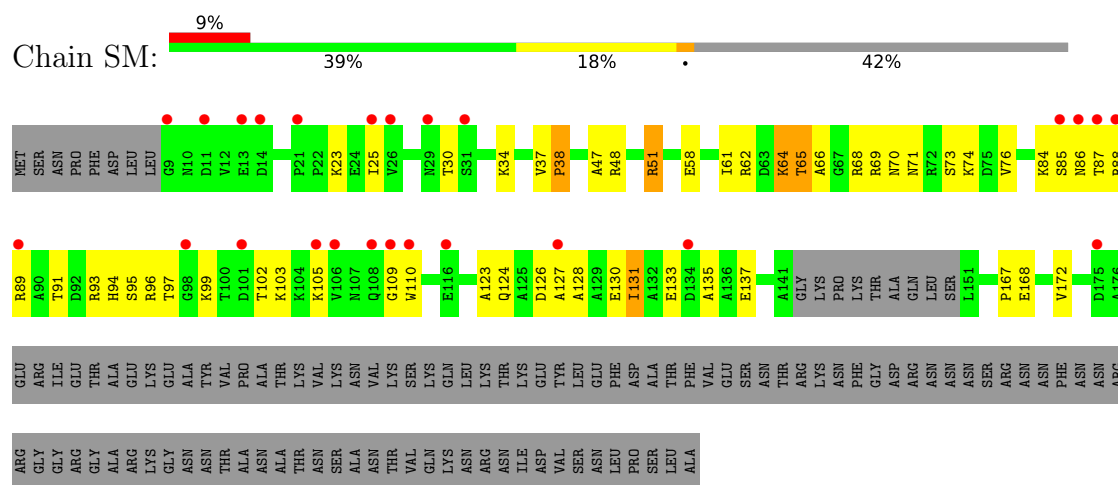


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

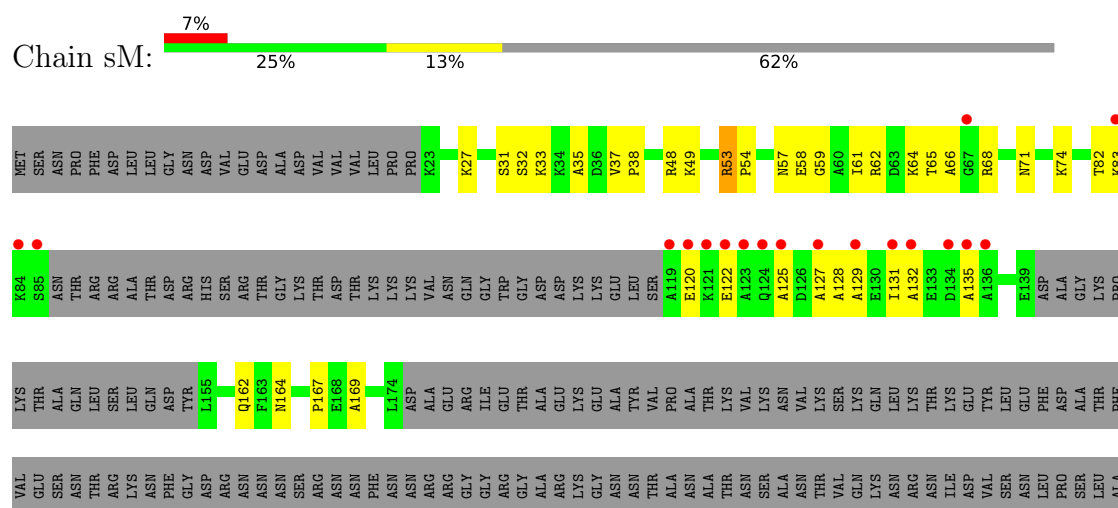




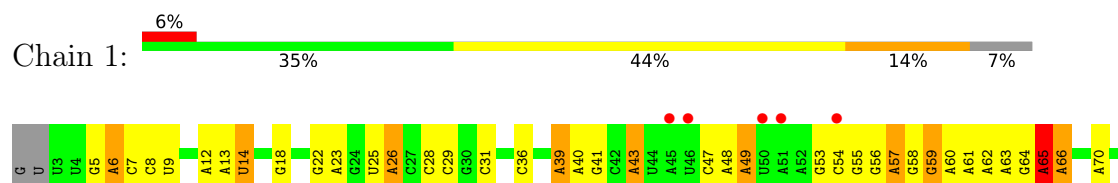
- Molecule 35: Suppressor protein STM1



- Molecule 35: Suppressor protein STM1



- Molecule 36: 25S ribosomal RNA

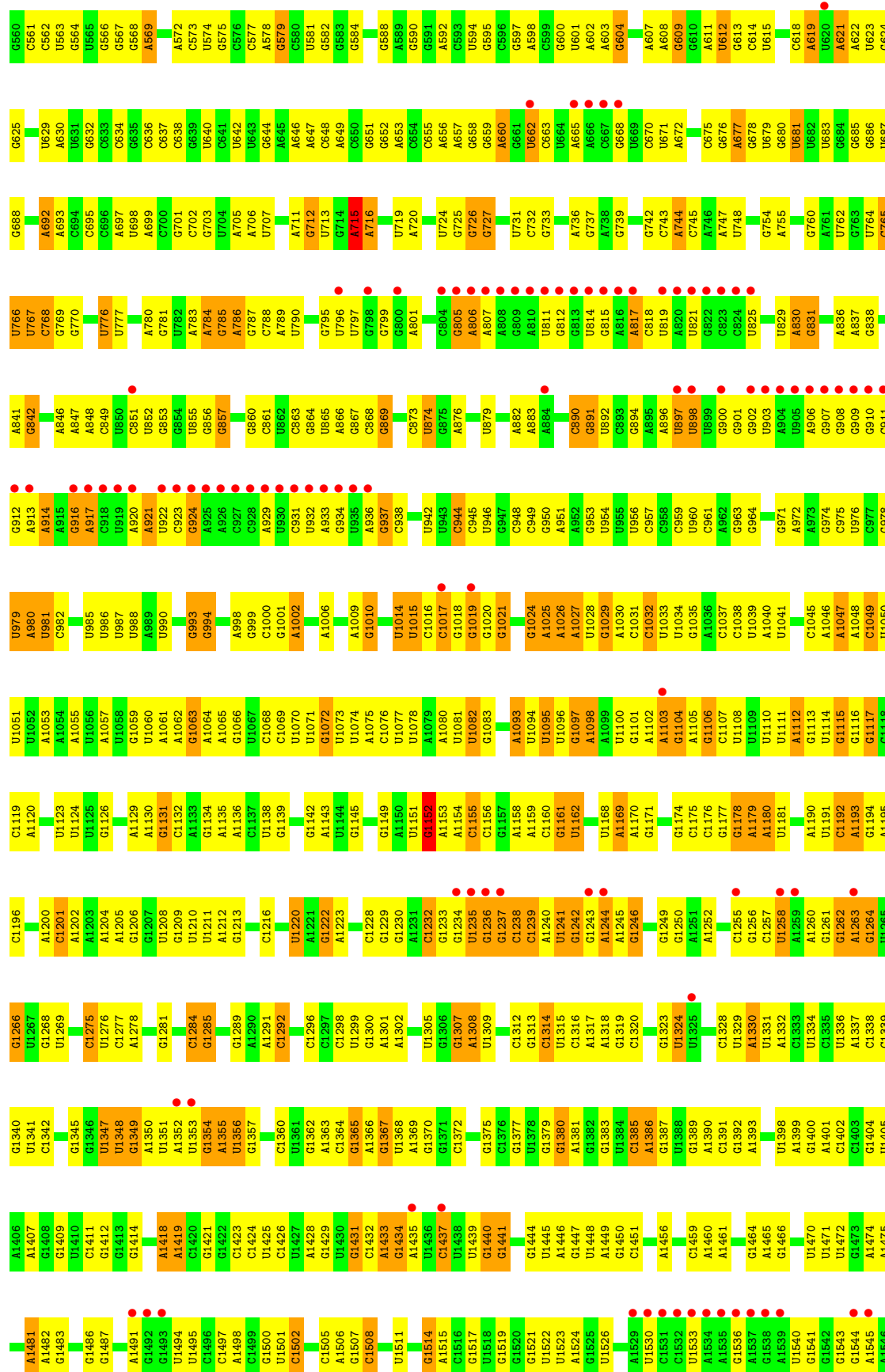




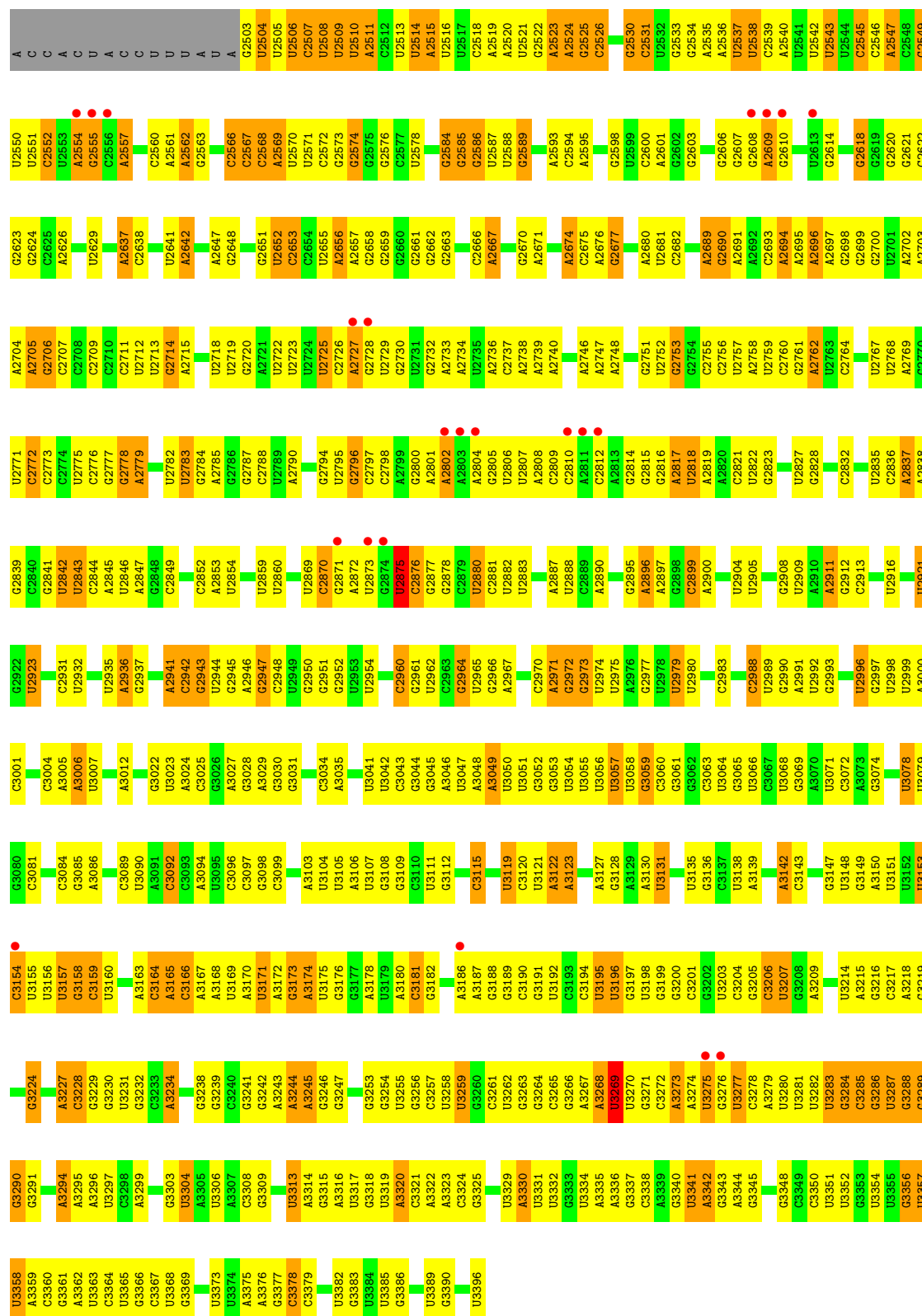
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G	U1180	G1249	G1321	A1393	U1463	G1529	A1590	G1658	U1729	U1801	A1874	A	G
U	G1250	G1250	G1322	A1394	G1464	U1528	G1591	U1659	G1730	C1802	G	G	U
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C	G1183	A1252	U1324	C1397	G1466	G1531	A1594	G1661	G1734	A1804	G1878	A	U
C	A1184	U1253	U1325	U1398	A1467	G1532	U1595	G1662	G1735	G1807	A1879	G	A
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A	A1203	A1270	G1343	U1418	A1481	A1546	C1609	G1678	A1757	C1822	A1900	C	A
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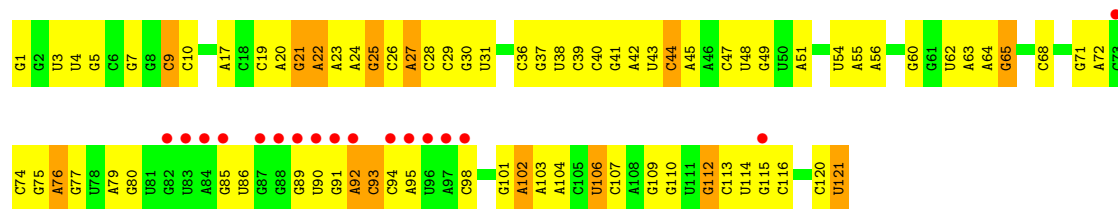
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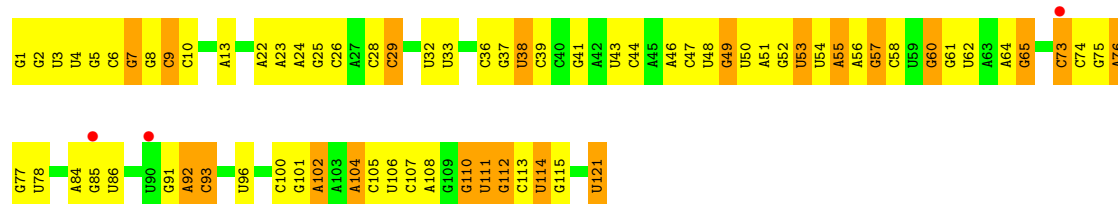


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A	U2399	U2400	U2401	U	C	U1998	U1924	U1847	U1706	U1646	U1647
A	U2402	U2403	U2404	U	C	U1999	U1925	U1848	U1707	U1647	U1648
A	U2405	U2406	U2407	U	C	U2000	U1926	U1849	U1708	U1648	U1649
A	U2408	U2409	U2410	U	C	U2001	U1927	U1850	U1709	U1649	U1650
A	U2411	U2412	U2413	U	C	U2002	U1928	U1851	U1710	U1650	U1651
A	U2414	U2415	U2416	U	C	U2003	U1929	U1852	U1711	U1651	U1652
A	U2417	U2418	U2419	U	C	U2004	U1930	U1853	U1712	U1652	U1653
A	U2420	U2421	U2422	U	C	U2005	U1931	U1854	U1713	U1653	U1654
A	U2423	U2424	U2425	U	C	U2006	U1932	U1855	U1714	U1654	U1655
A	U2426	U2427	U2428	U	C	U2007	U1933	U1856	U1715	U1655	U1656
A	U2429	U2430	U2431	U	C	U2008	U1934	U1857	U1716	U1656	U1657
A	U2432	U2433	U2434	U	C	U2009	U1935	U1858	U1717	U1657	U1658
A	U2435	U2436	U2437	U	C	U2010	U1936	U1859	U1718	U1658	U1659
A	U2438	U2439	U2440	U	C	U2011	U1937	U1860	U1719	U1659	U1660
A	U2441	U2442	U2443	U	C	U2012	U1938	U1861	U1720	U1660	U1661
A	U2444	U2445	U2446	U	C	U2013	U1939	U1862	U1721	U1661	U1662
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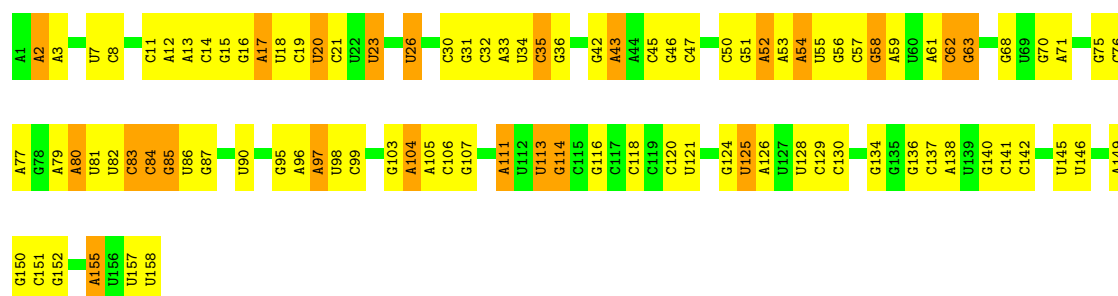




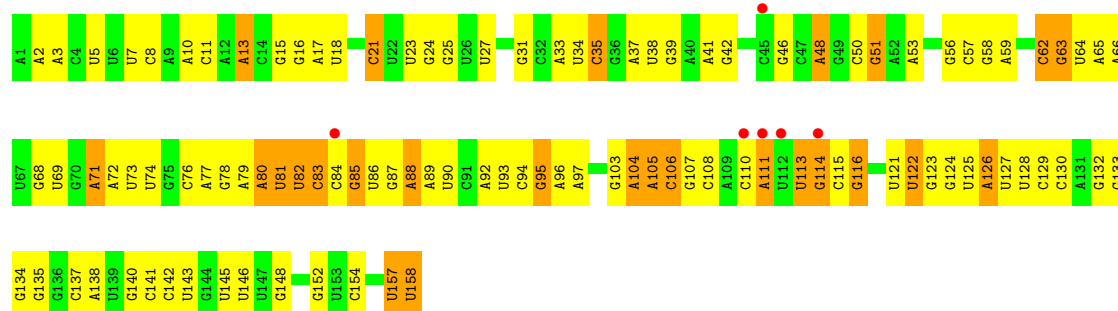
● Molecule 37: 5S ribosomal RNA



● Molecule 38: 5.8S ribosomal RNA

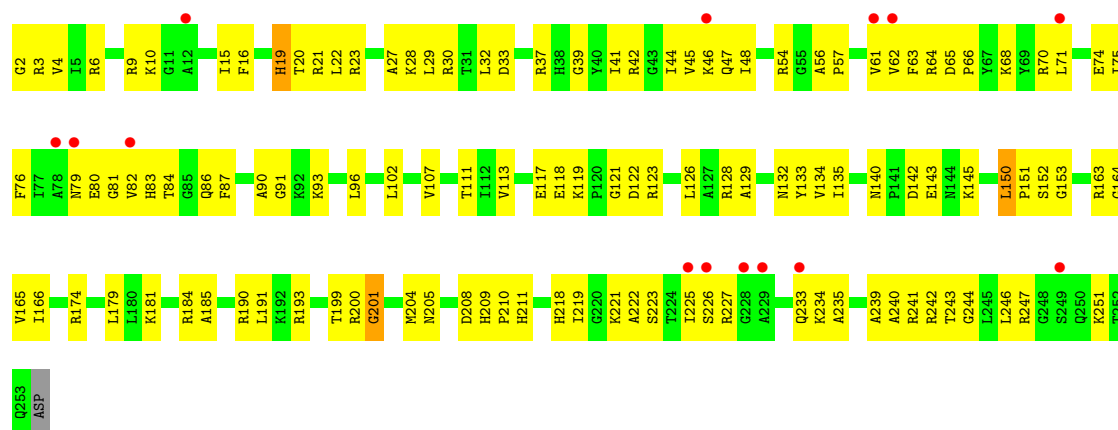


● Molecule 38: 5.8S ribosomal RNA

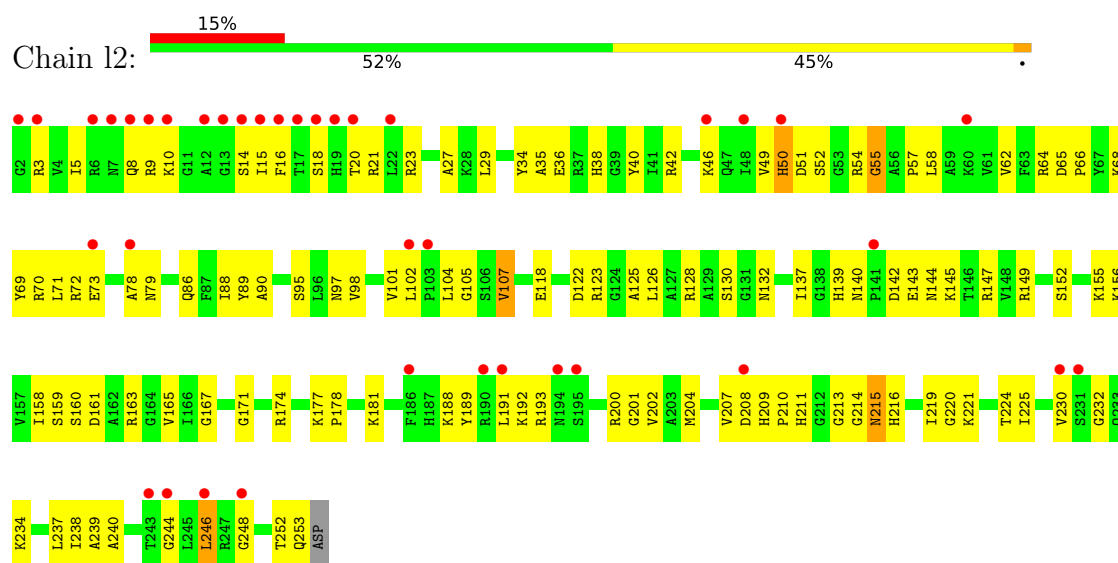


● Molecule 39: 60S ribosomal protein L2-A

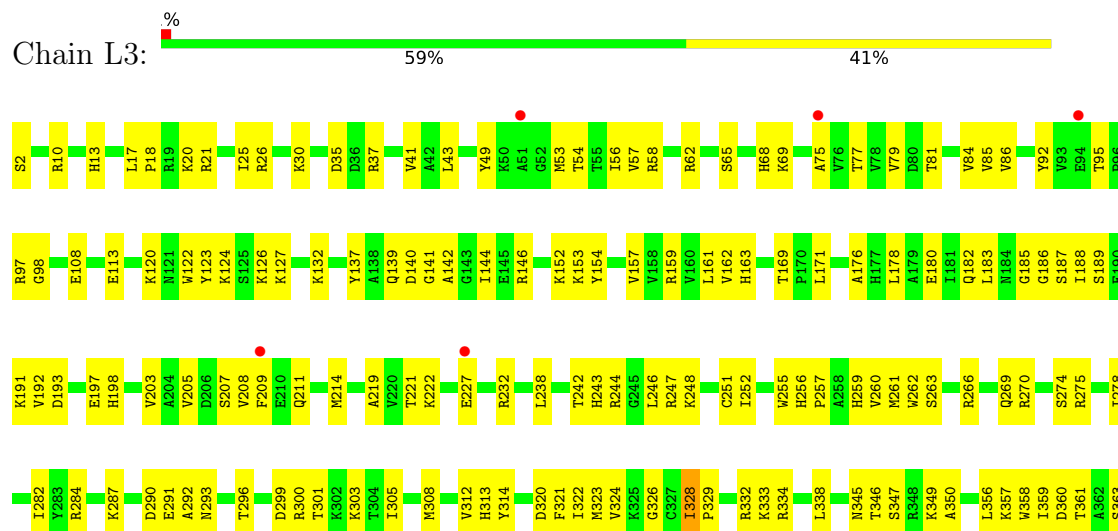




• Molecule 39: 60S ribosomal protein L2-A

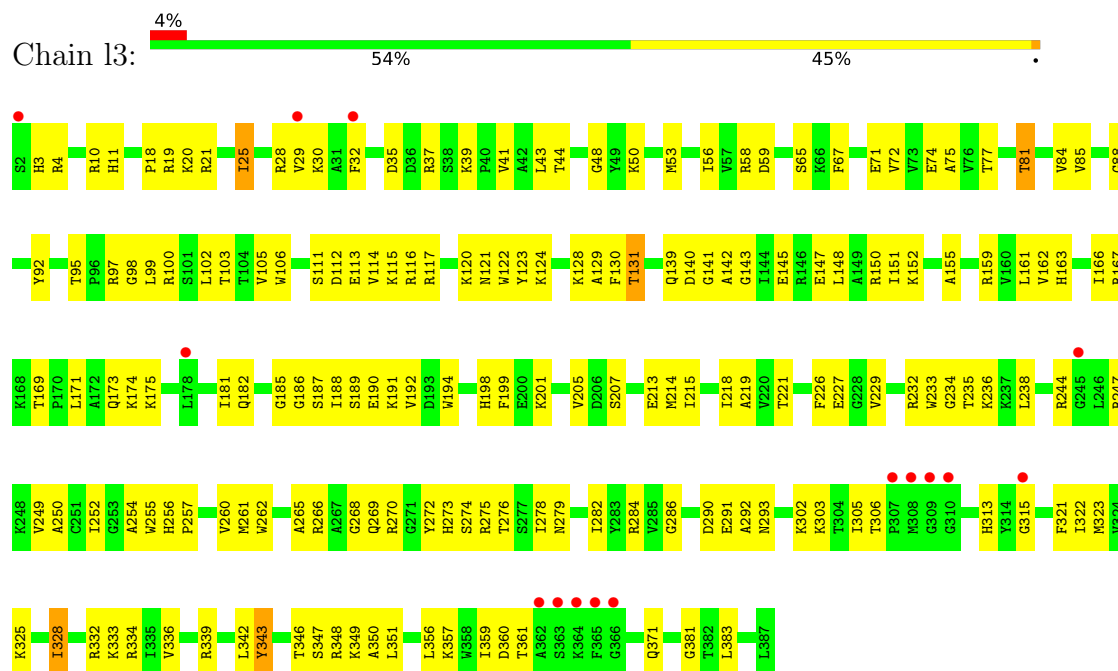


• Molecule 40: 60S ribosomal protein L3

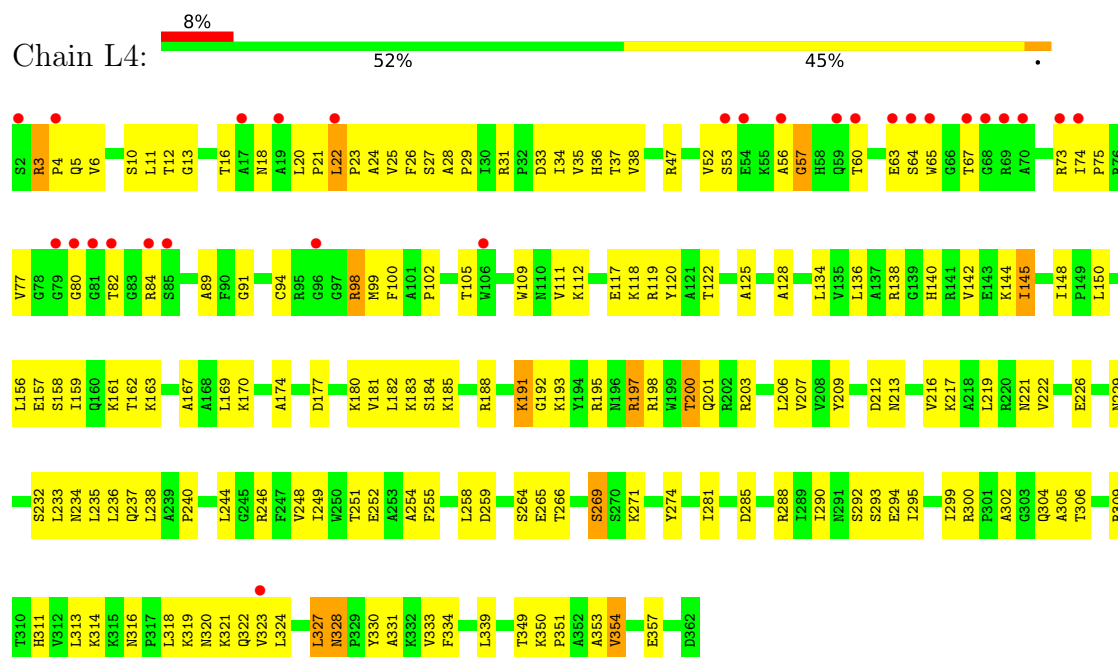




• Molecule 40: 60S ribosomal protein L3

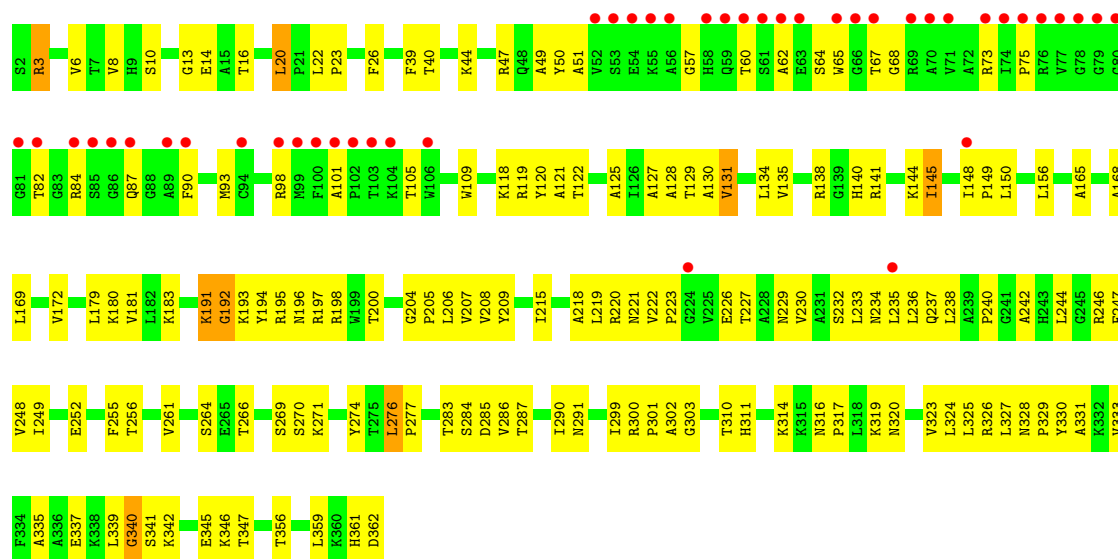


• Molecule 41: 60S ribosomal protein L4-A

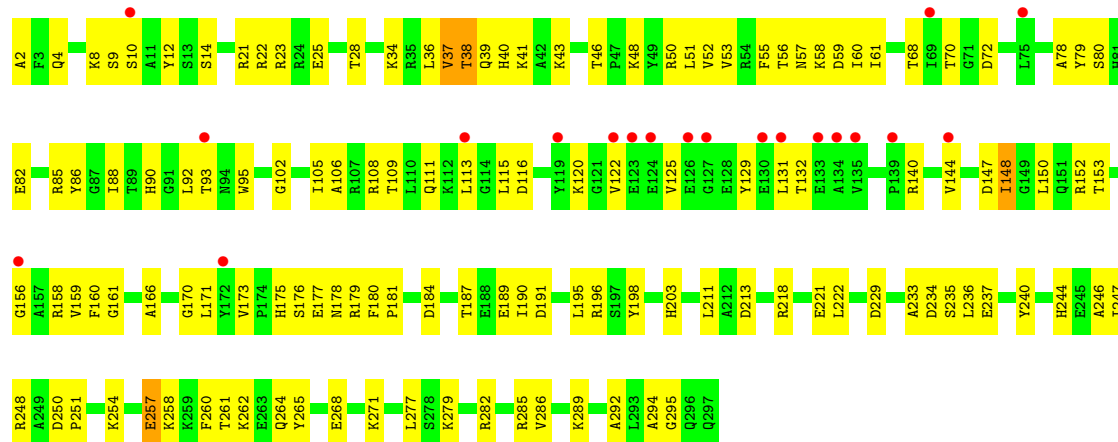


• Molecule 41: 60S ribosomal protein L4-A

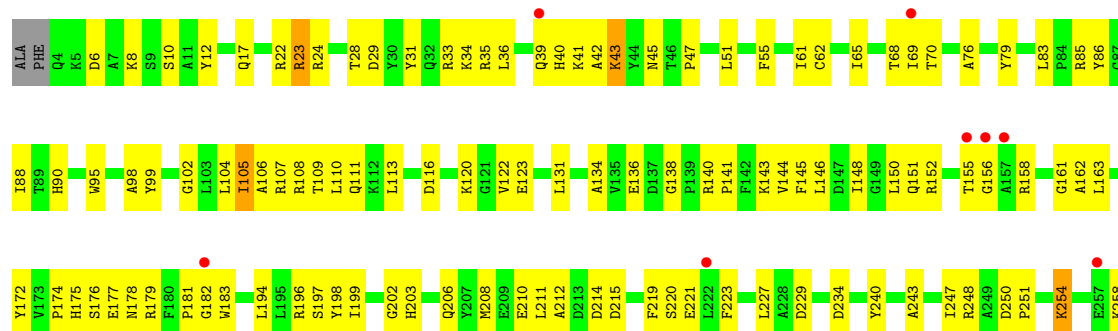




• Molecule 42: 60S ribosomal protein L5

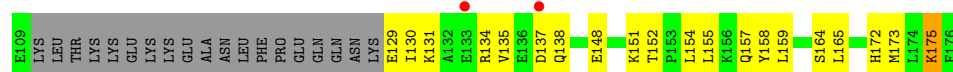


• Molecule 42: 60S ribosomal protein L5

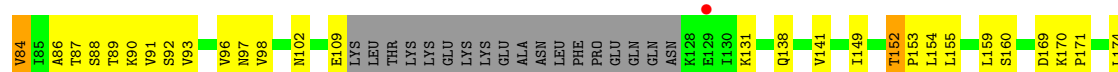
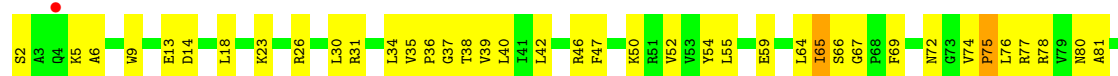




• Molecule 43: 60S ribosomal protein L6-A



• Molecule 43: 60S ribosomal protein L6-A

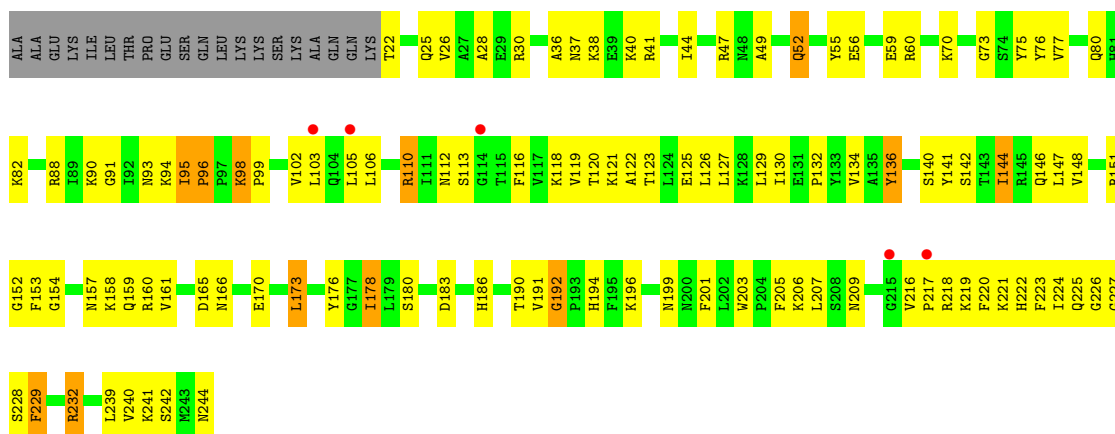


• Molecule 44: 60S ribosomal protein L7-A

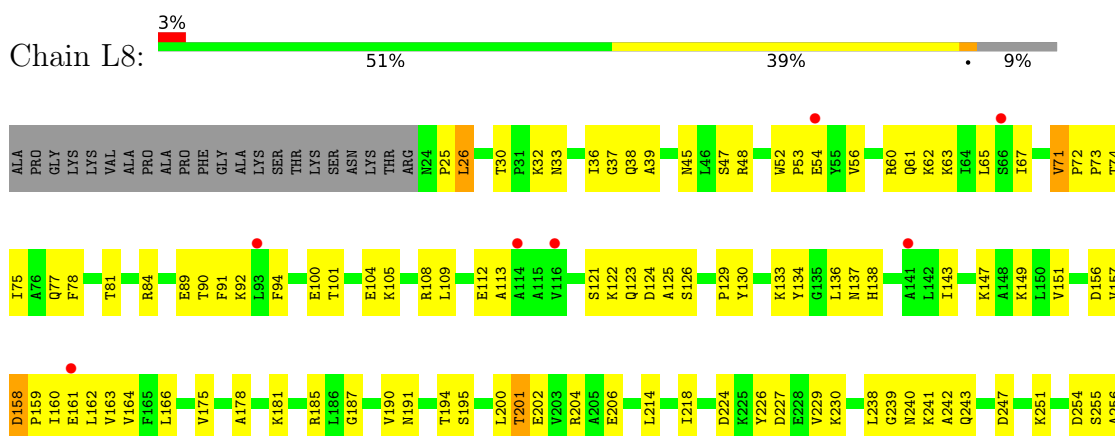


• Molecule 44: 60S ribosomal protein L7-A

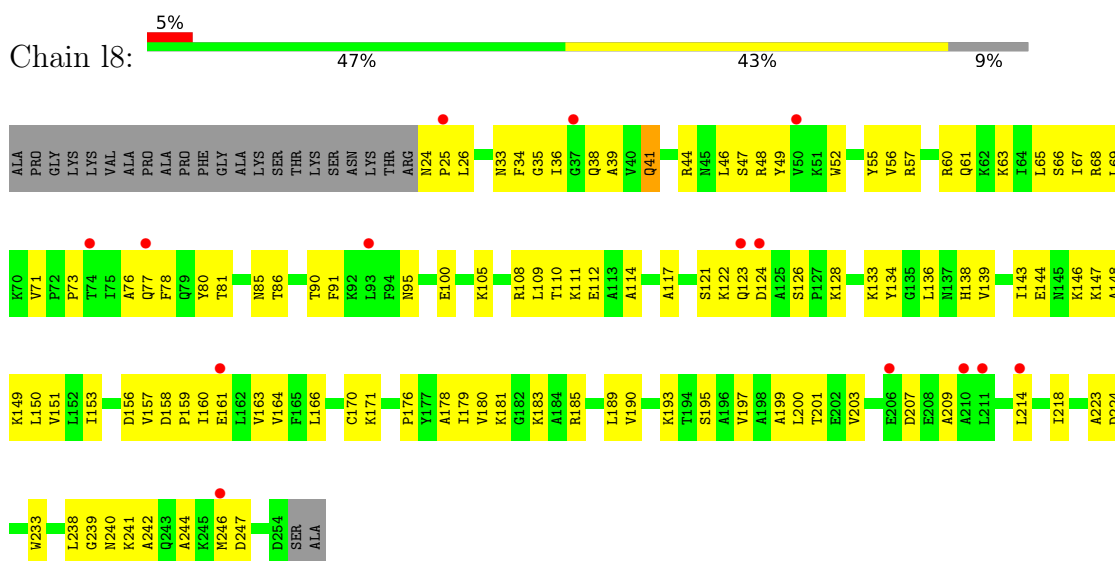




- Molecule 45: 60S ribosomal protein L8-A

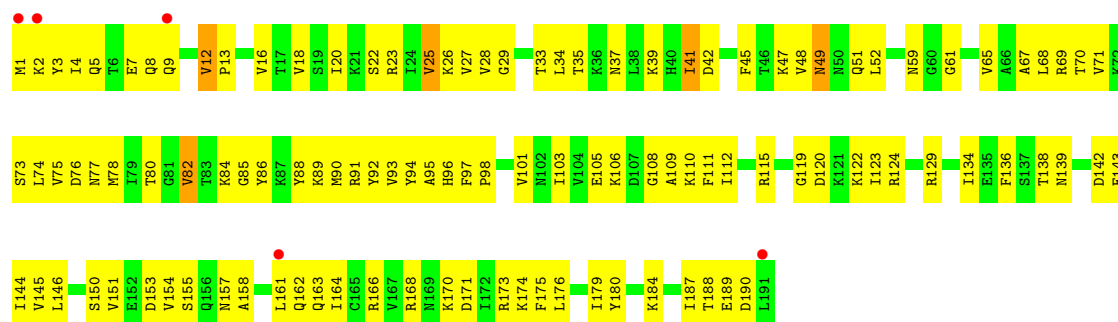


- Molecule 45: 60S ribosomal protein L8-A

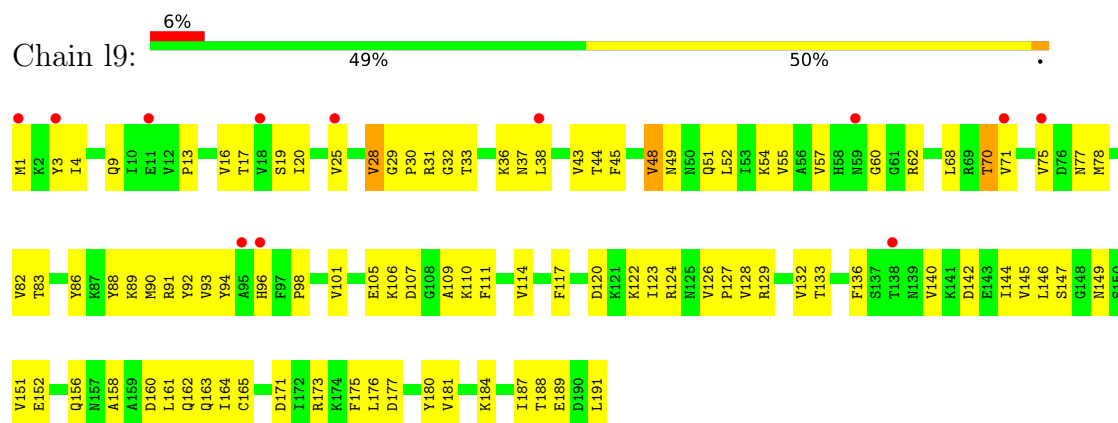


- Molecule 46: 60S ribosomal protein L9-A

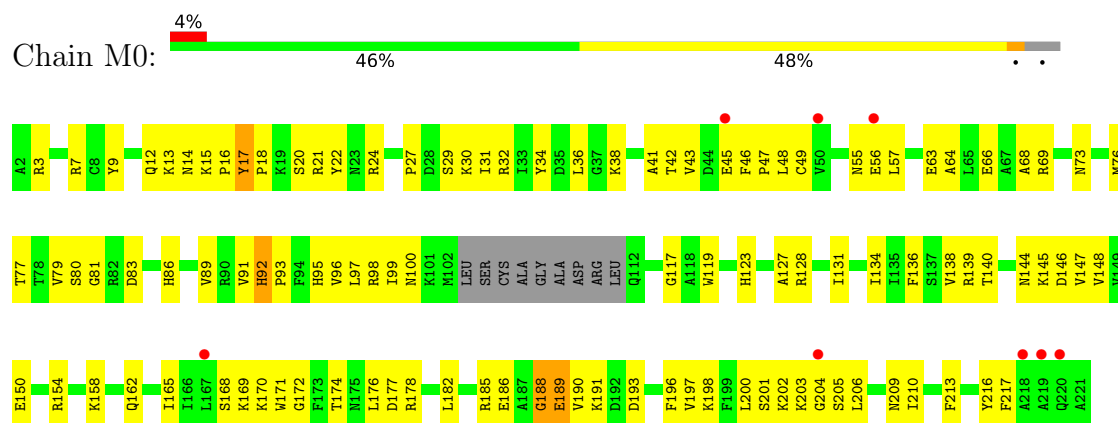




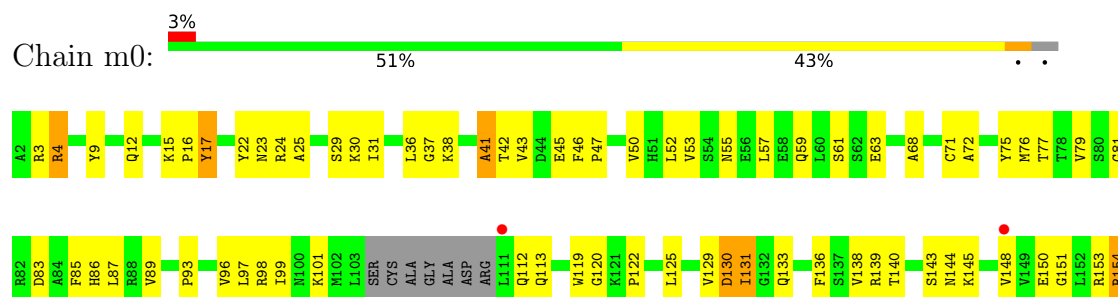
• Molecule 46: 60S ribosomal protein L9-A



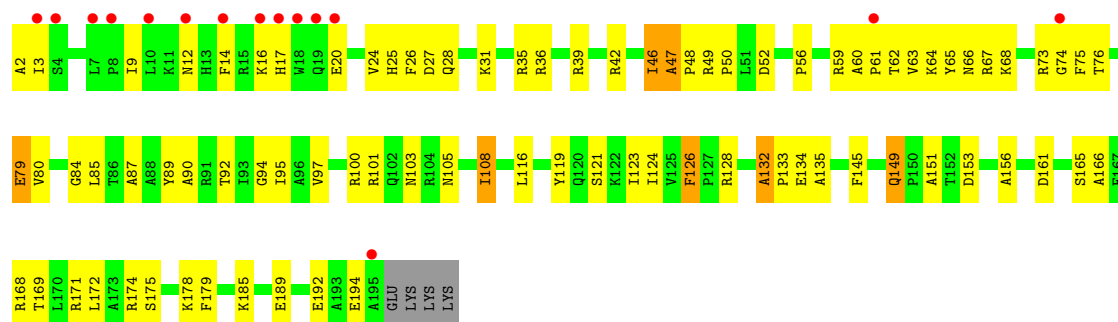
• Molecule 47: 60S ribosomal protein L10



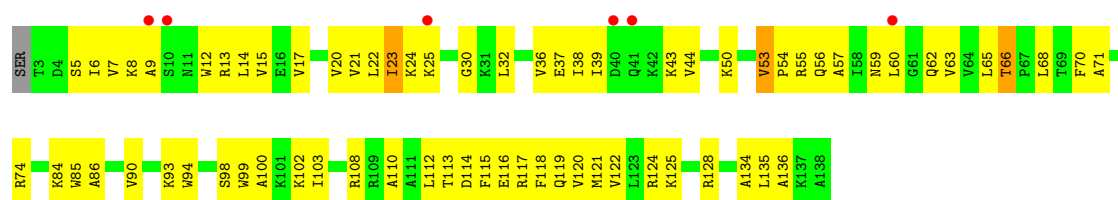
• Molecule 47: 60S ribosomal protein L10



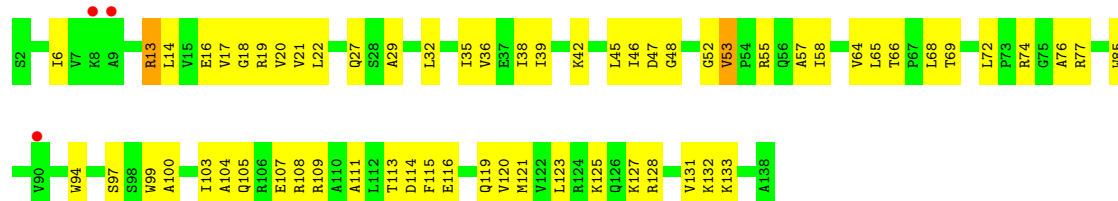




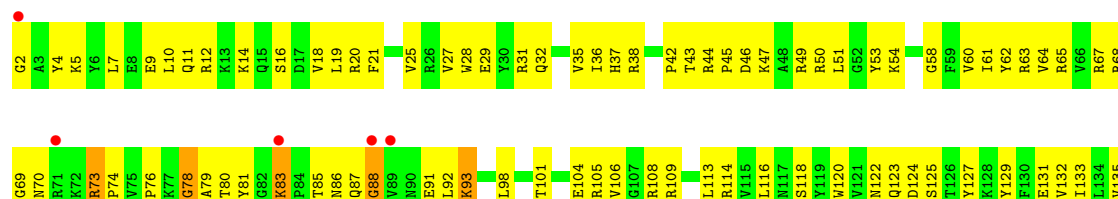
• Molecule 50: 60S ribosomal protein L14-A



• Molecule 50: 60S ribosomal protein L14-A

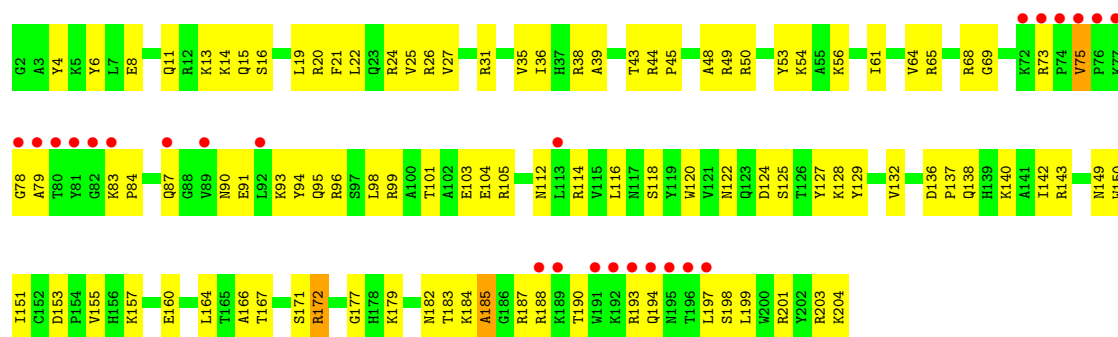


• Molecule 51: 60S ribosomal protein L15-A

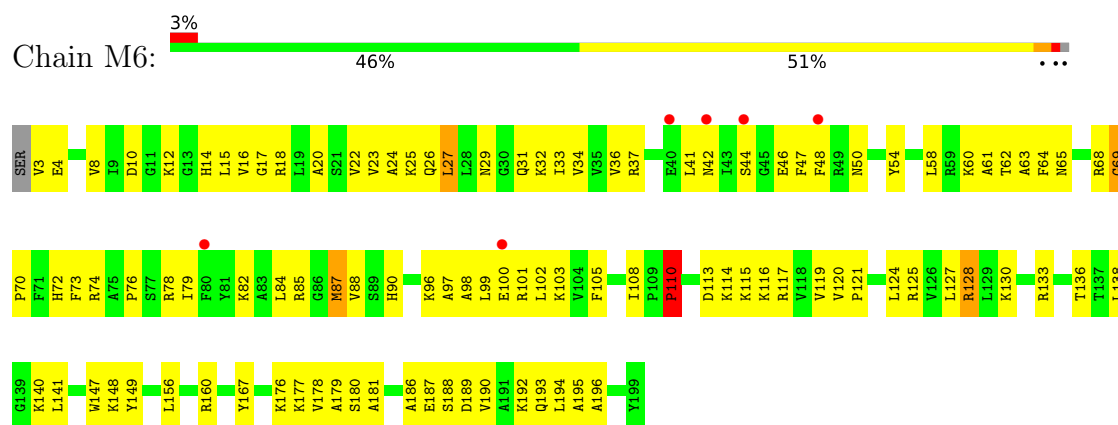


• Molecule 51: 60S ribosomal protein L15-A

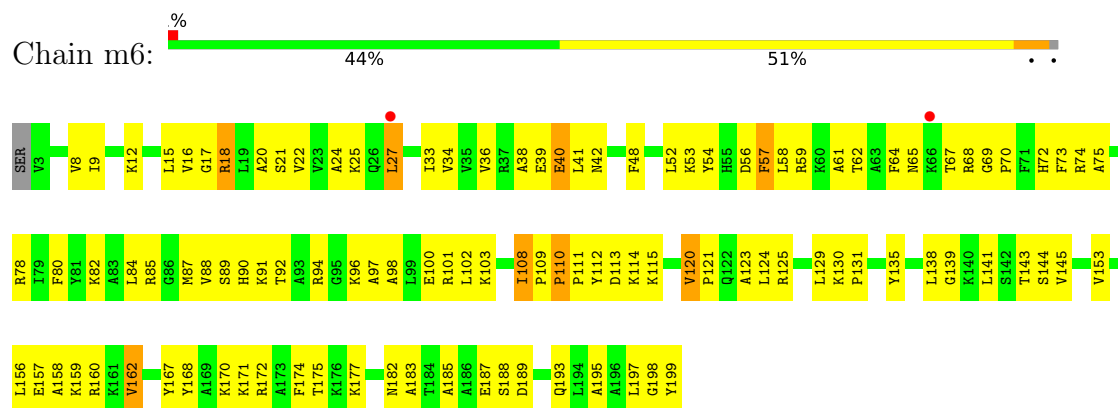




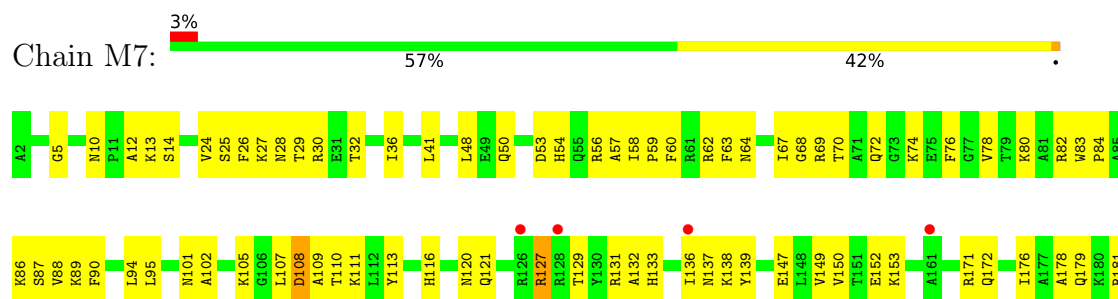
• Molecule 52: 60S ribosomal protein L16-A



• Molecule 52: 60S ribosomal protein L16-A

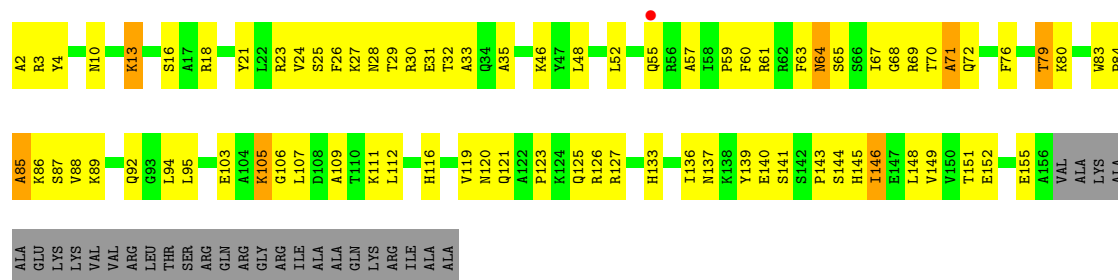
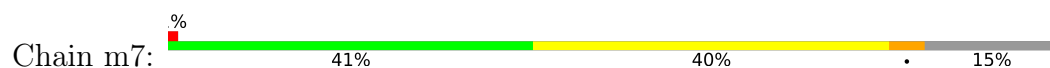


• Molecule 53: 60S ribosomal protein L17-A

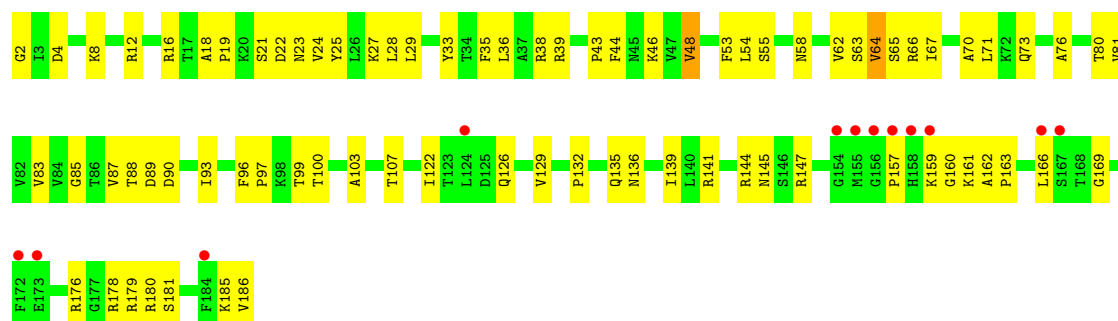




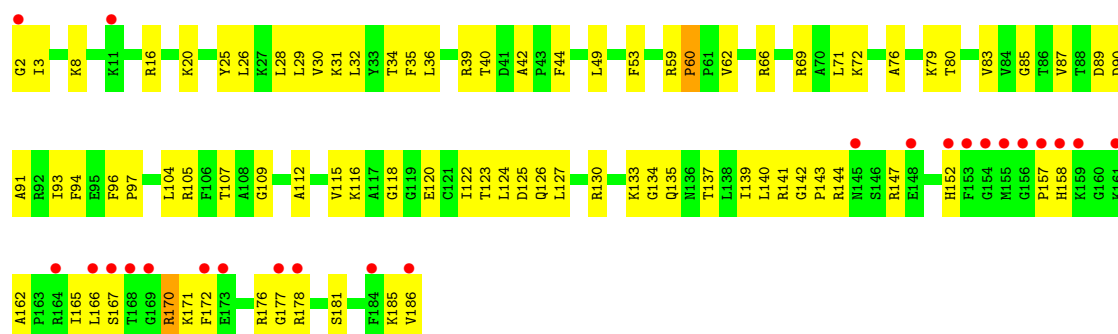
• Molecule 53: 60S ribosomal protein L17-A



• Molecule 54: 60S ribosomal protein L18-A

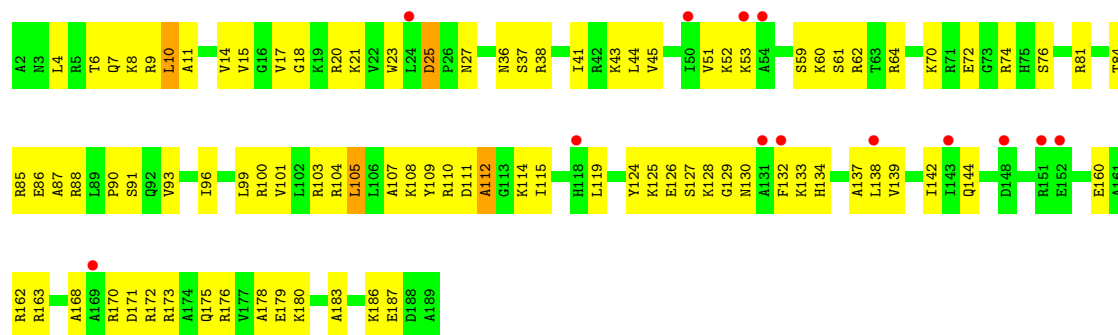


• Molecule 54: 60S ribosomal protein L18-A

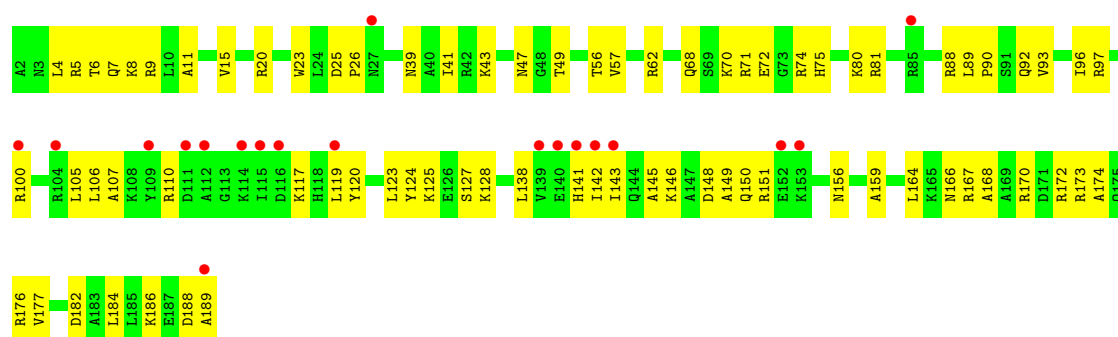


• Molecule 55: 60S ribosomal protein L19-A

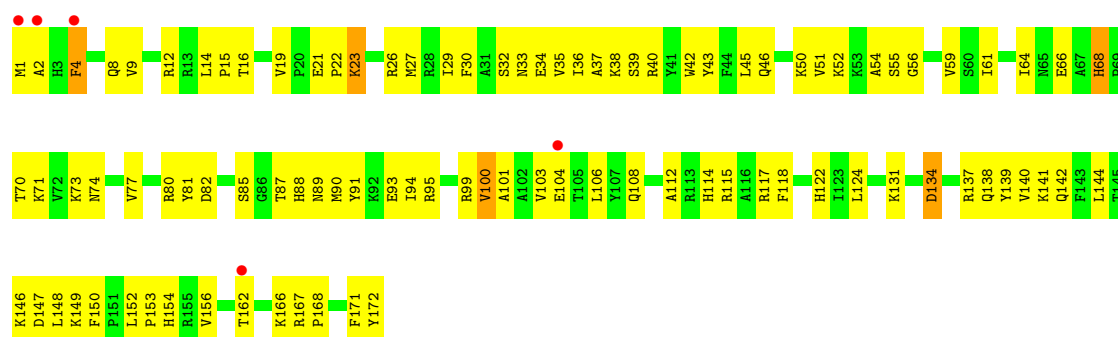
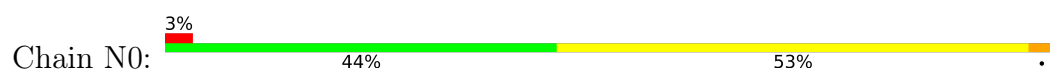




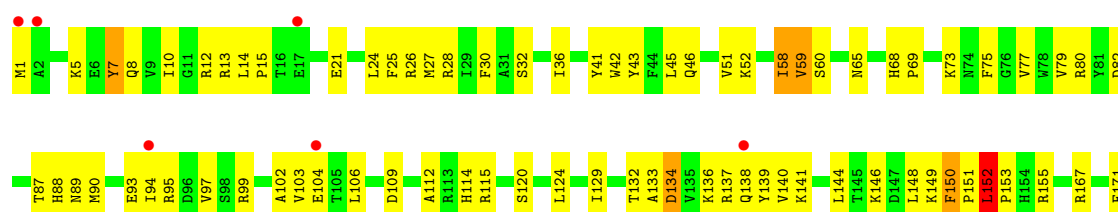
• Molecule 55: 60S ribosomal protein L19-A



• Molecule 56: 60S ribosomal protein L20-A



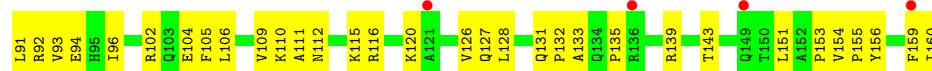
• Molecule 56: 60S ribosomal protein L20-A



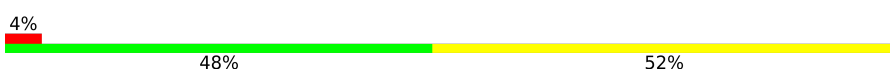
Y172

- Molecule 57: 60S ribosomal protein L21-A

Chain N1: 



- Molecule 57: 60S ribosomal protein L21-A

Chain n1: 



- Molecule 58: 60S ribosomal protein L22-A

Chain N2: 

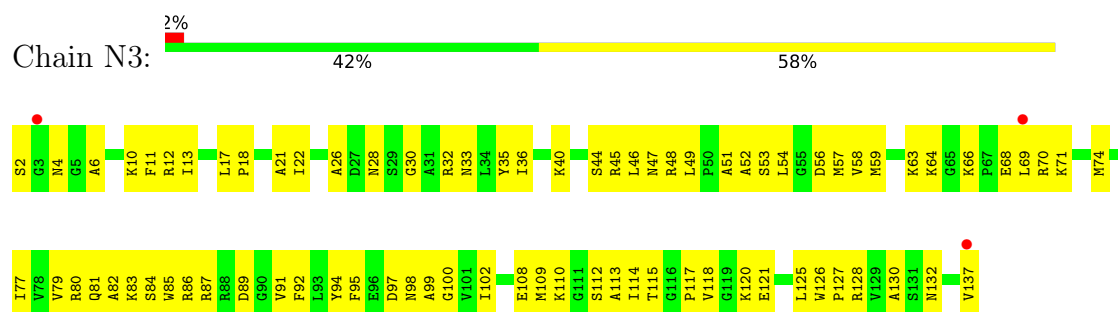


- Molecule 58: 60S ribosomal protein L22-A

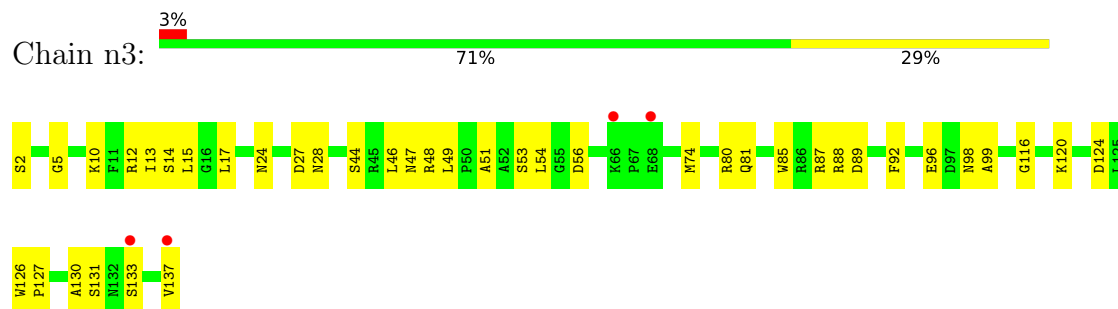
Chain n2: 



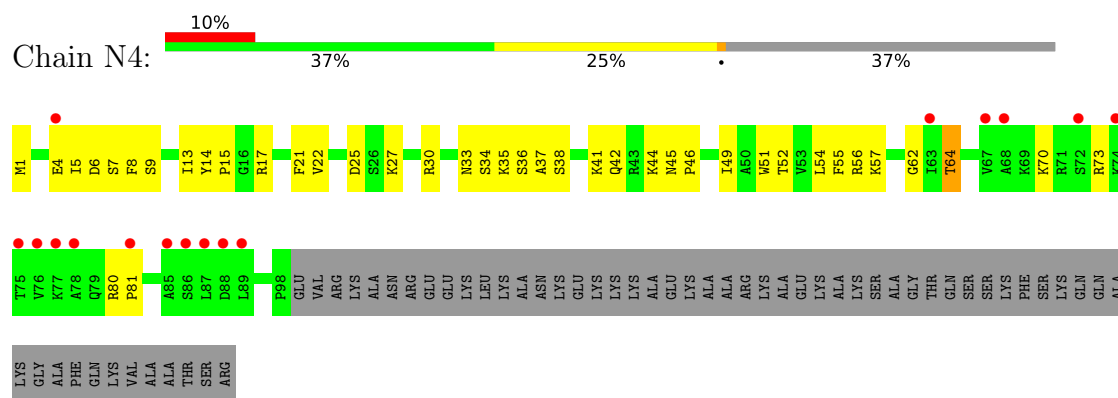
- Molecule 59: 60S ribosomal protein L23-A



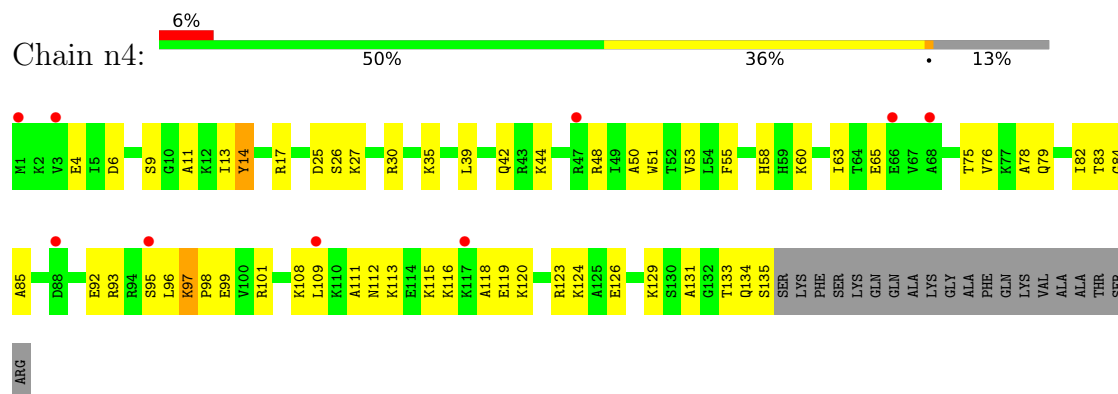
- Molecule 59: 60S ribosomal protein L23-A



- Molecule 60: 60S ribosomal protein L24-A

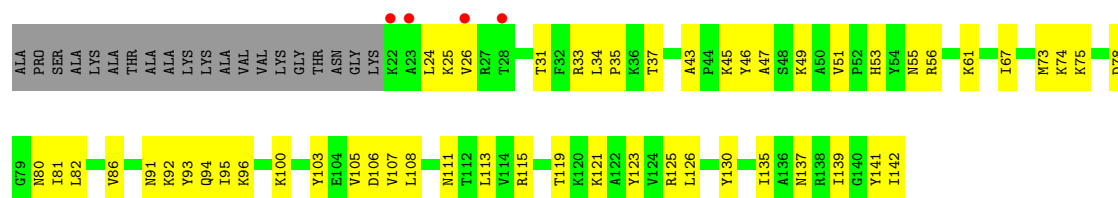


- Molecule 60: 60S ribosomal protein L24-A

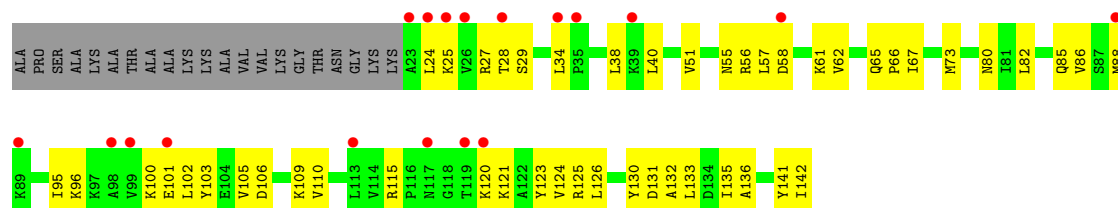


- Molecule 61: 60S ribosomal protein L25

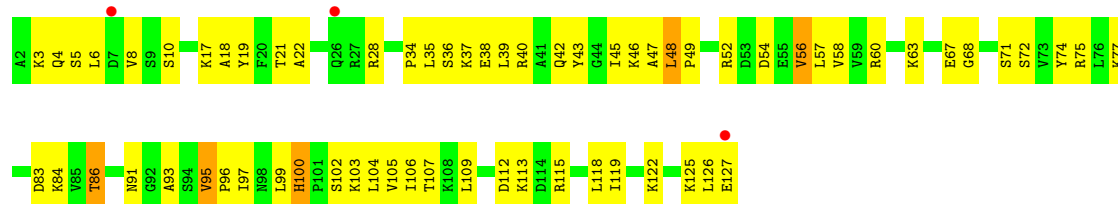




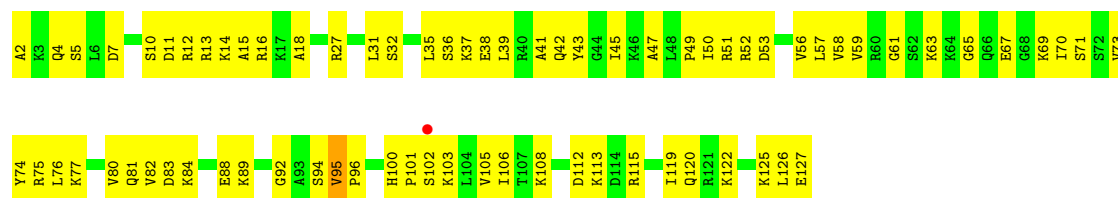
• Molecule 61: 60S ribosomal protein L25



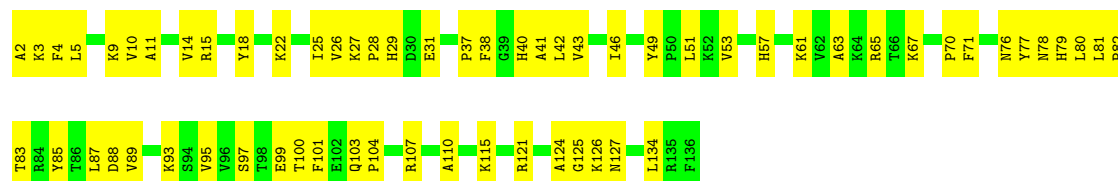
• Molecule 62: 60S ribosomal protein L26-A



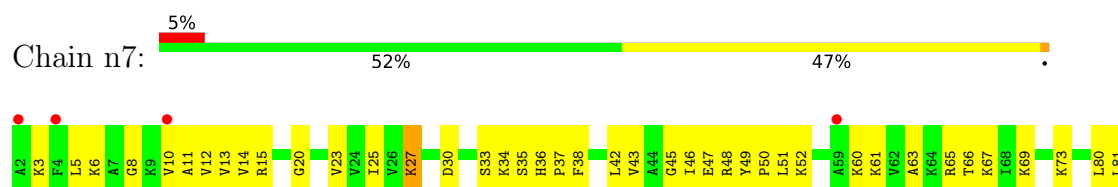
• Molecule 62: 60S ribosomal protein L26-A



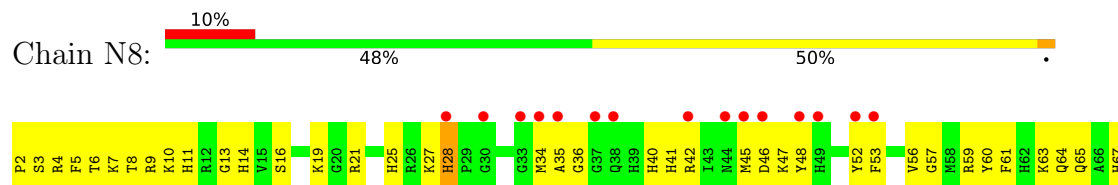
• Molecule 63: 60S ribosomal protein L27-A



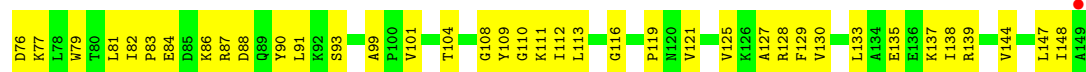
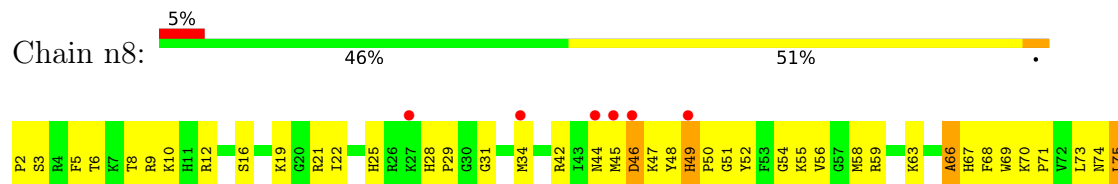
• Molecule 63: 60S ribosomal protein L27-A



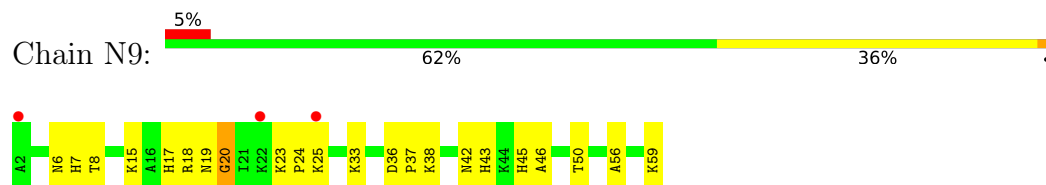
• Molecule 64: 60S ribosomal protein L28



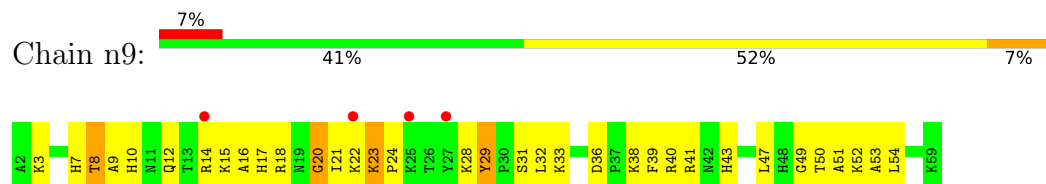
• Molecule 64: 60S ribosomal protein L28



• Molecule 65: 60S ribosomal protein L29

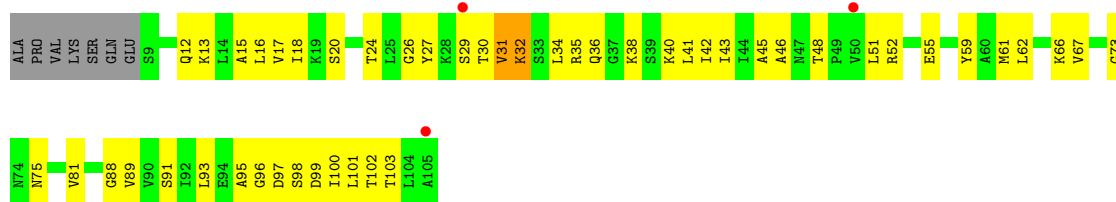


• Molecule 65: 60S ribosomal protein L29

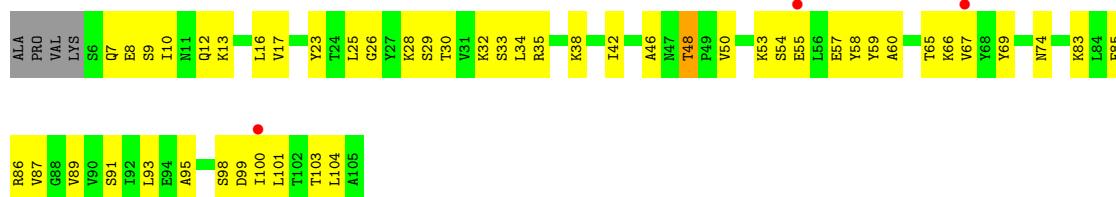


• Molecule 66: 60S ribosomal protein L30

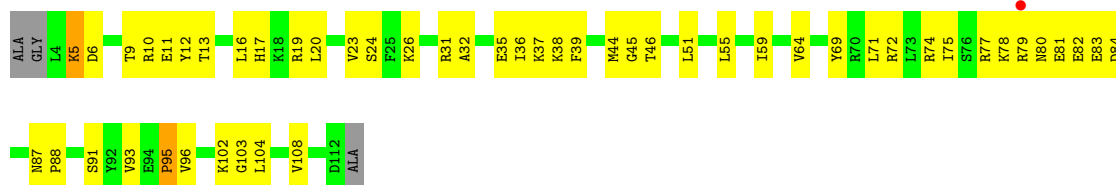




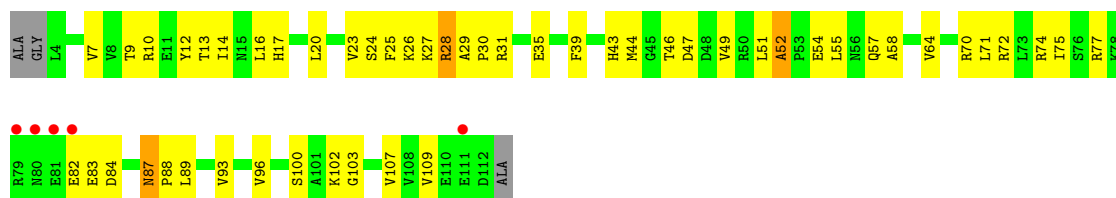
• Molecule 66: 60S ribosomal protein L30



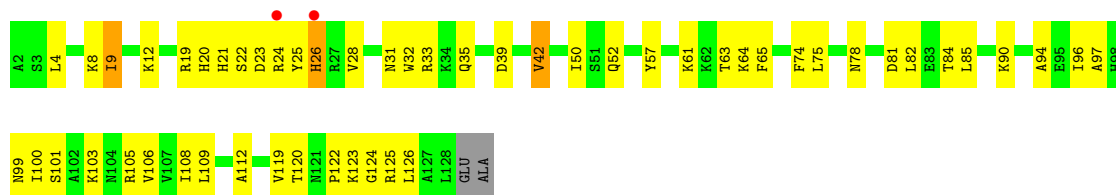
• Molecule 67: 60S ribosomal protein L31-A



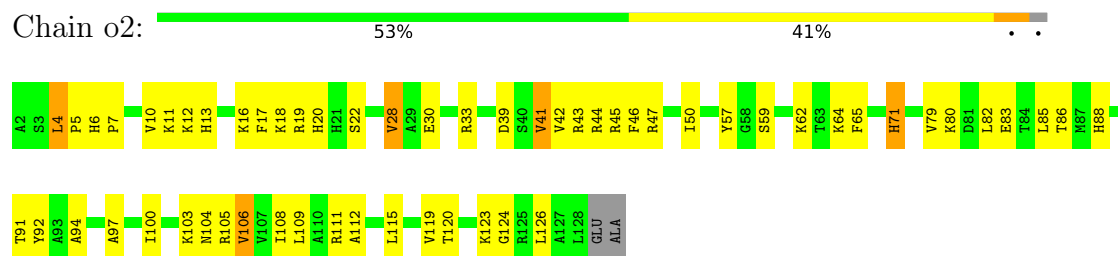
• Molecule 67: 60S ribosomal protein L31-A



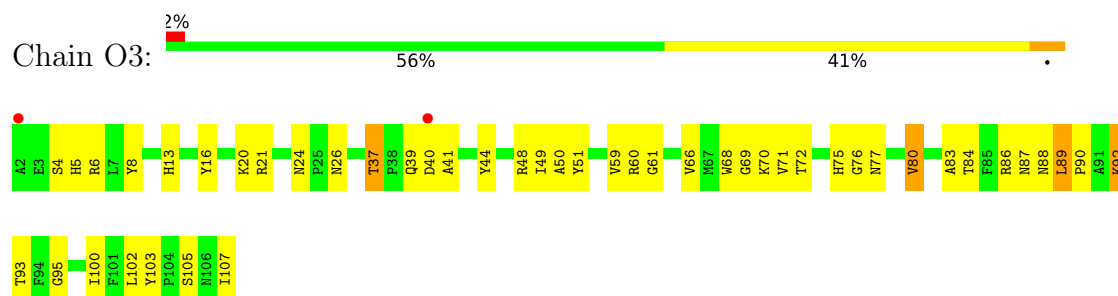
• Molecule 68: 60S ribosomal protein L32



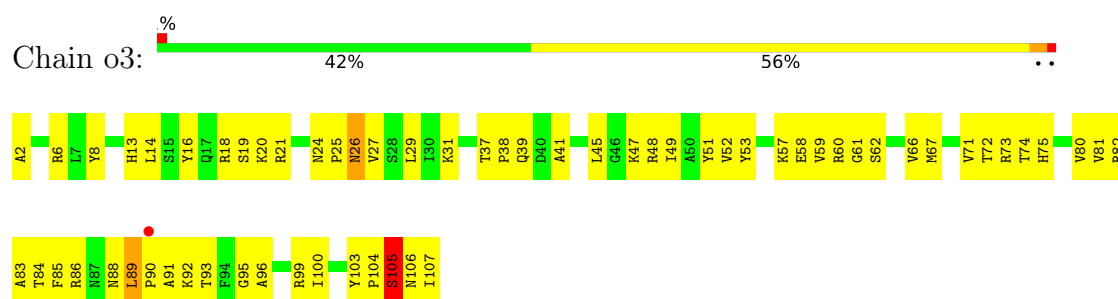
- Molecule 68: 60S ribosomal protein L32



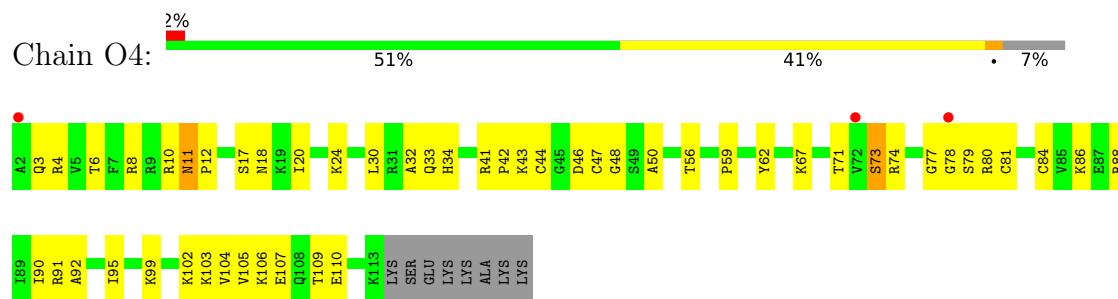
- Molecule 69: 60S ribosomal protein L33-A



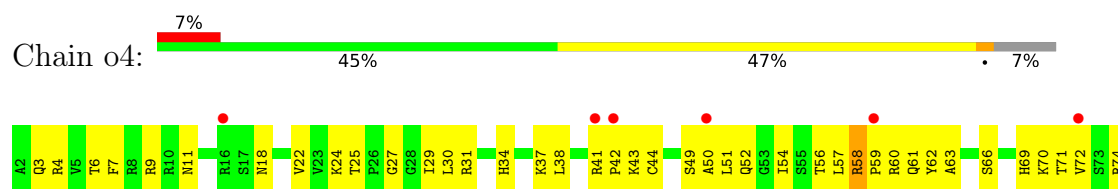
- Molecule 69: 60S ribosomal protein L33-A



- Molecule 70: 60S ribosomal protein L34-A

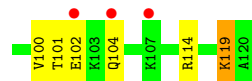


- Molecule 70: 60S ribosomal protein L34-A

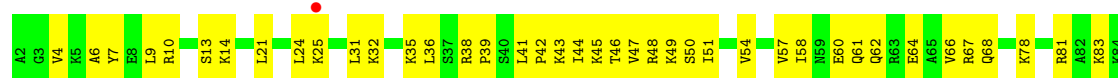




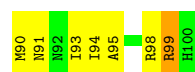
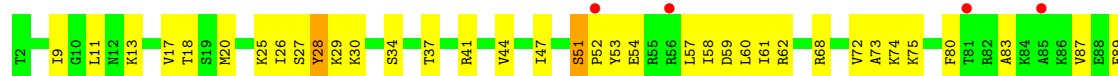
- Molecule 71: 60S ribosomal protein L35-A



- Molecule 71: 60S ribosomal protein L35-A



- Molecule 72: 60S ribosomal protein L36-A

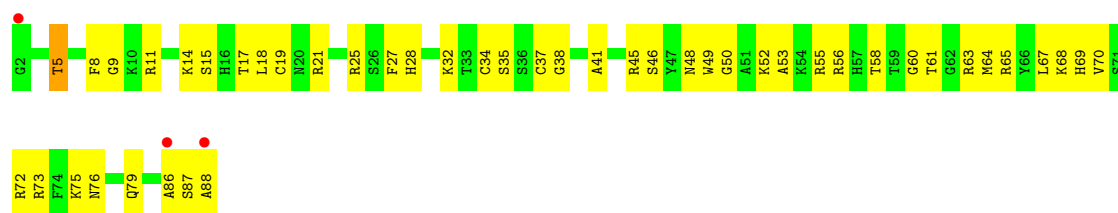


- Molecule 72: 60S ribosomal protein L36-A

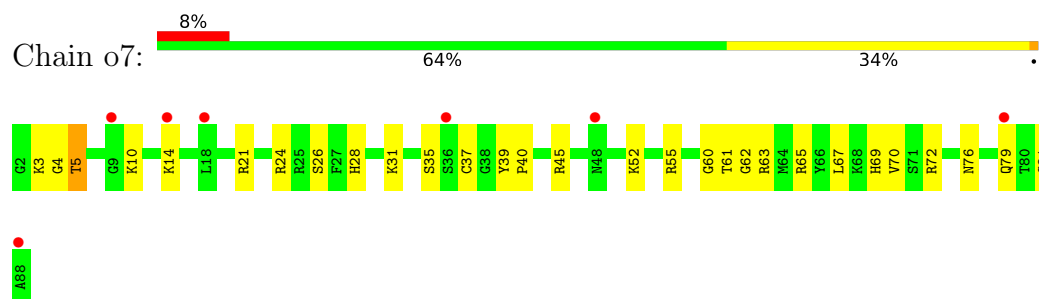


- Molecule 73: 60S ribosomal protein L37-A

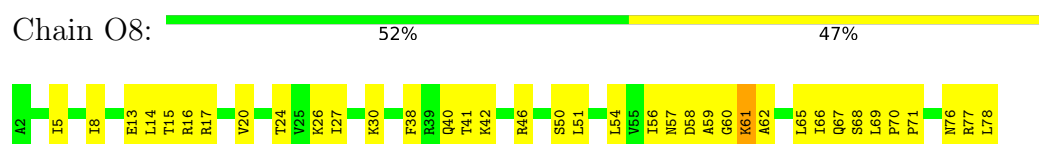




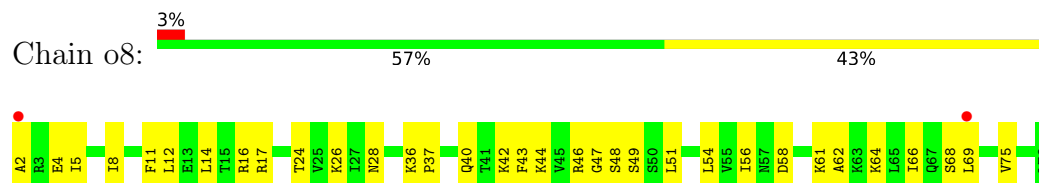
- Molecule 73: 60S ribosomal protein L37-A



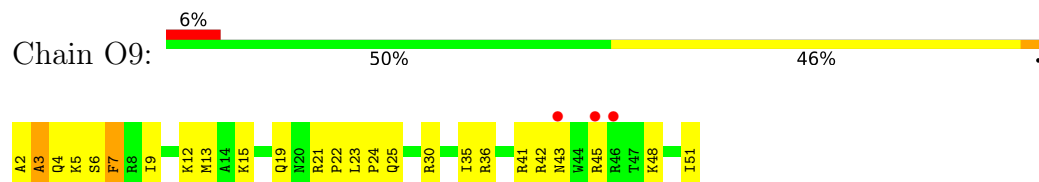
- Molecule 74: 60S ribosomal protein L38



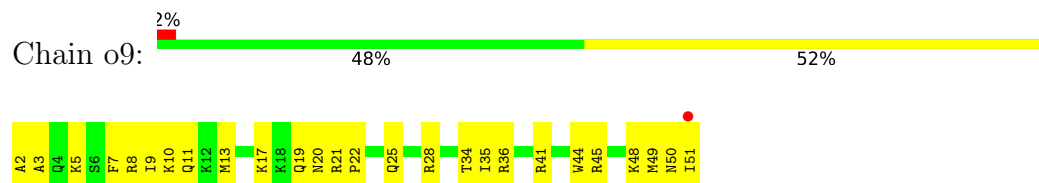
- Molecule 74: 60S ribosomal protein L38



- Molecule 75: 60S ribosomal protein L39

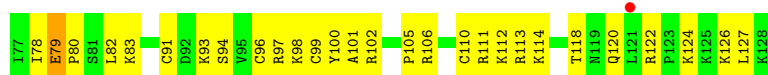


- Molecule 75: 60S ribosomal protein L39



- Molecule 76: Ubiquitin-60S ribosomal protein L40





- Molecule 76: Ubiquitin-60S ribosomal protein L40



- Molecule 77: 60S ribosomal protein L41-A



- Molecule 77: 60S ribosomal protein L41-A



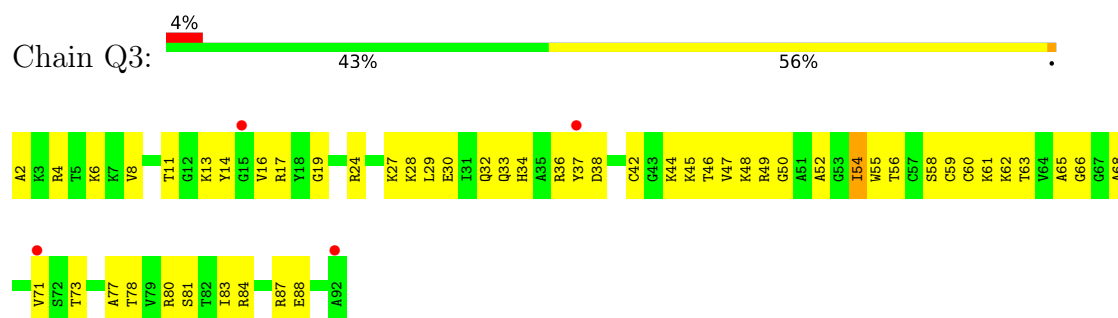
- Molecule 78: 60S ribosomal protein L42-A



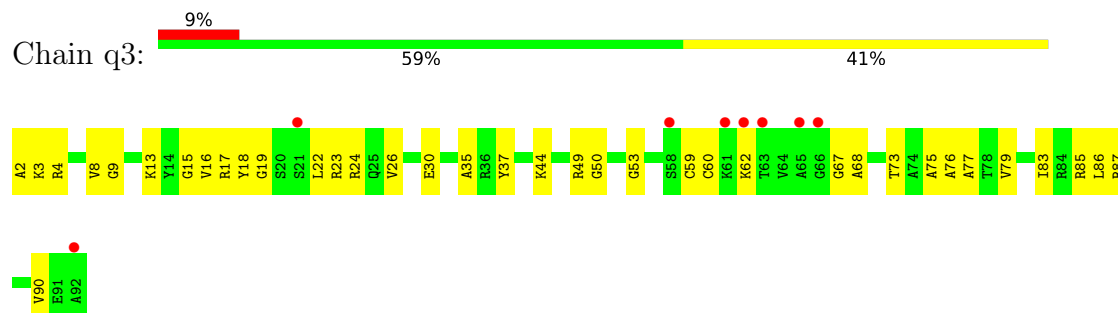
- Molecule 78: 60S ribosomal protein L42-A



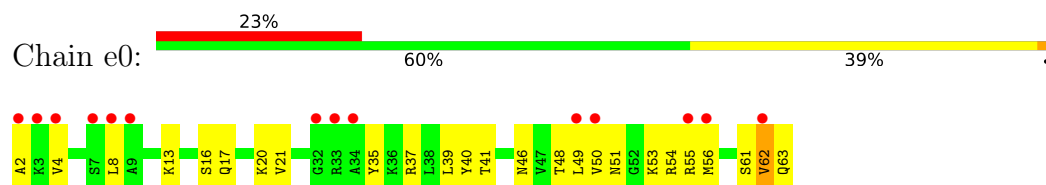
- Molecule 79: 60S ribosomal protein L43-A



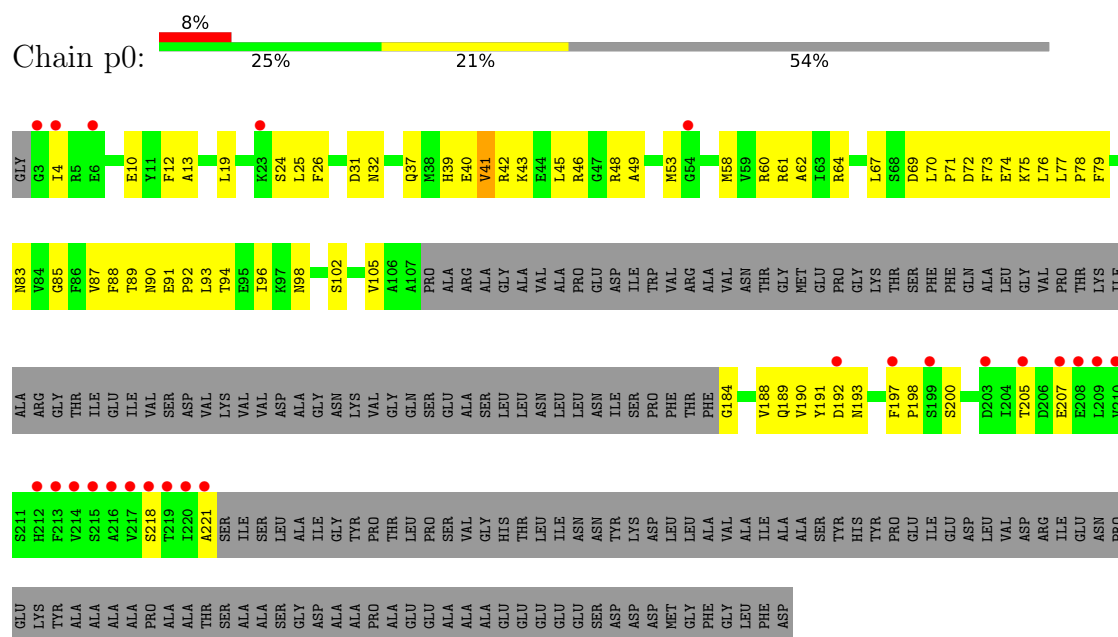
- Molecule 79: 60S ribosomal protein L43-A



- Molecule 80: 40S ribosomal protein S30-A



- Molecule 81: 60S acidic ribosomal protein P0



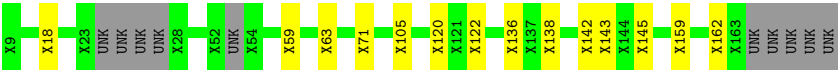
- Molecule 82: unknown protein chain m2

Chain m2:

85%

9%

6%

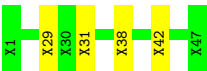


● Molecule 83: unknown protein chain p1

Chain p1:

91%

9%



● Molecule 84: unknown protein chain p2

Chain p2:

96%

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4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	435.64Å 286.76Å 303.26Å 90.00° 98.72° 90.00°	Depositor
Resolution (Å)	299.76 – 3.45 299.76 – 3.45	Depositor EDS
% Data completeness (in resolution range)	100.0 (299.76-3.45) 99.9 (299.76-3.45)	Depositor EDS
R_{merge}	0.45	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.38 (at 3.41Å)	Xtriage
Refinement program	PHENIX (phenix.refine: dev_1702)	Depositor
R, R_{free}	0.196 , 0.260 0.203 , 0.264	Depositor DCC
R_{free} test set	19267 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	93.1	Xtriage
Anisotropy	0.148	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 135.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	411214	wwPDB-VP
Average B, all atoms (Å ²)	81.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.55% 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, MG, OHX, BLS

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	0.41	0/41698	0.62	2/64972 (0.0%)
1	6	0.45	0/42765	0.64	6/66634 (0.0%)
2	S0	0.61	0/1617	1.12	10/2215 (0.5%)
2	s0	0.63	0/1623	1.16	13/2222 (0.6%)
3	S1	0.51	0/1735	0.97	4/2335 (0.2%)
3	s1	0.63	0/1748	1.04	6/2352 (0.3%)
4	S2	0.60	0/1665	1.11	8/2263 (0.4%)
4	s2	0.74	0/1665	1.20	13/2263 (0.6%)
5	S3	0.63	0/1759	1.02	3/2368 (0.1%)
5	s3	0.58	0/1759	1.01	8/2368 (0.3%)
6	S4	0.63	0/2109	1.03	6/2839 (0.2%)
6	s4	0.64	0/2109	1.05	6/2839 (0.2%)
7	S5	0.54	0/1629	0.97	7/2202 (0.3%)
7	s5	0.60	0/1629	1.04	6/2202 (0.3%)
8	S6	0.62	0/1823	1.03	8/2439 (0.3%)
8	s6	0.71	0/1779	1.12	13/2379 (0.5%)
9	S7	0.57	0/1506	1.03	3/2028 (0.1%)
9	s7	0.60	0/1516	1.08	7/2043 (0.3%)
10	S8	0.71	0/1514	1.07	6/2021 (0.3%)
10	s8	0.70	0/1514	1.05	6/2021 (0.3%)
11	S9	0.60	0/1519	1.03	6/2035 (0.3%)
11	s9	0.67	0/1519	1.15	10/2035 (0.5%)
12	C0	0.57	0/790	1.09	7/1069 (0.7%)
12	c0	0.52	0/777	1.08	6/1049 (0.6%)
13	C1	0.73	0/1240	1.10	4/1675 (0.2%)
13	c1	0.72	0/1194	1.14	6/1610 (0.4%)
14	C2	0.59	0/900	0.99	1/1224 (0.1%)
14	c2	0.45	0/900	0.96	2/1224 (0.2%)
15	C3	0.67	0/1215	1.05	7/1638 (0.4%)
15	c3	0.71	1/1215 (0.1%)	1.08	9/1638 (0.5%)
16	C4	0.56	0/901	1.08	8/1217 (0.7%)
16	c4	0.66	0/960	1.10	6/1290 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	C5	0.68	0/998	1.08	3/1341 (0.2%)
17	c5	0.63	0/1060	1.18	9/1426 (0.6%)
18	C6	0.61	0/1125	1.04	6/1510 (0.4%)
18	c6	0.62	0/1131	1.06	3/1518 (0.2%)
19	C7	0.65	0/935	1.02	1/1254 (0.1%)
19	c7	0.58	0/914	1.13	3/1224 (0.2%)
20	C8	0.58	0/1211	1.07	5/1628 (0.3%)
20	c8	0.60	0/1211	1.01	4/1628 (0.2%)
21	C9	0.54	0/1130	0.90	3/1517 (0.2%)
21	c9	0.65	0/1130	1.05	6/1517 (0.4%)
22	D0	0.60	0/865	1.05	1/1169 (0.1%)
22	d0	0.59	0/892	1.11	5/1205 (0.4%)
23	D1	0.57	0/693	0.98	2/935 (0.2%)
23	d1	0.66	0/693	1.02	3/935 (0.3%)
24	D2	0.62	0/1038	1.10	7/1395 (0.5%)
24	d2	0.73	0/1038	1.06	4/1395 (0.3%)
25	D3	0.76	0/1139	1.14	10/1518 (0.7%)
25	d3	0.90	0/1139	1.15	3/1518 (0.2%)
26	D4	0.57	0/1087	1.00	5/1449 (0.3%)
26	d4	0.67	0/1087	1.06	3/1449 (0.2%)
27	D5	0.57	0/571	1.10	3/768 (0.4%)
27	d5	0.56	0/566	1.08	3/761 (0.4%)
28	D6	0.64	0/782	1.07	5/1047 (0.5%)
28	d6	0.69	0/782	1.15	3/1047 (0.3%)
29	D7	0.54	0/620	0.99	2/838 (0.2%)
29	d7	0.62	0/620	1.28	7/838 (0.8%)
30	D8	0.51	0/499	1.01	4/670 (0.6%)
30	d8	0.54	0/499	0.93	0/670
31	D9	0.57	0/452	1.00	1/600 (0.2%)
31	d9	0.63	0/452	1.06	0/600
32	E0	0.64	0/483	0.96	0/643
33	E1	0.61	0/577	1.13	4/770 (0.5%)
33	e1	0.59	0/619	1.13	5/822 (0.6%)
34	SR	0.54	0/2494	0.97	5/3393 (0.1%)
34	sR	0.53	0/2495	0.88	1/3395 (0.0%)
35	SM	0.74	1/1113 (0.1%)	1.12	8/1502 (0.5%)
35	sM	0.66	0/682	1.28	6/921 (0.7%)
36	1	0.59	0/75394	0.76	17/117545 (0.0%)
36	5	0.59	0/75414	0.76	6/117575 (0.0%)
37	3	0.55	0/2883	0.69	0/4491
37	7	0.59	0/2883	0.78	0/4491
38	4	0.57	0/3746	0.73	0/5832
38	8	0.50	0/3746	0.66	0/5832

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	L2	0.88	0/1948	1.17	9/2617 (0.3%)
39	l2	0.80	0/1946	1.19	7/2614 (0.3%)
40	L3	0.90	0/3146	1.18	4/4228 (0.1%)
40	l3	0.99	3/3146 (0.1%)	1.20	16/4228 (0.4%)
41	L4	0.98	1/2800 (0.0%)	1.30	25/3790 (0.7%)
41	l4	0.93	0/2800	1.27	21/3790 (0.6%)
42	L5	0.72	0/2425	1.06	3/3271 (0.1%)
42	l5	0.85	0/2408	1.25	17/3248 (0.5%)
43	L6	0.94	0/1260	1.22	4/1694 (0.2%)
43	l6	0.97	0/1269	1.27	10/1705 (0.6%)
44	L7	1.03	0/1821	1.29	13/2451 (0.5%)
44	l7	1.04	1/1828 (0.1%)	1.39	26/2461 (1.1%)
45	L8	0.68	0/1836	1.16	12/2481 (0.5%)
45	l8	0.60	0/1795	1.02	2/2429 (0.1%)
46	L9	0.84	0/1539	1.11	5/2073 (0.2%)
46	l9	0.93	0/1539	1.18	6/2073 (0.3%)
47	M0	0.95	3/1741 (0.2%)	1.22	9/2335 (0.4%)
47	m0	0.93	1/1758 (0.1%)	1.21	8/2358 (0.3%)
48	M1	0.68	0/1374	1.03	3/1842 (0.2%)
48	m1	0.85	0/1374	1.15	8/1842 (0.4%)
49	M3	0.92	0/1568	1.21	7/2106 (0.3%)
49	m3	0.82	0/1573	1.28	12/2113 (0.6%)
50	M4	1.03	1/1068 (0.1%)	1.34	10/1438 (0.7%)
50	m4	1.03	1/1074 (0.1%)	1.26	10/1446 (0.7%)
51	M5	0.92	0/1757	1.30	14/2354 (0.6%)
51	m5	0.75	0/1757	1.13	10/2354 (0.4%)
52	M6	1.02	1/1585 (0.1%)	1.26	10/2128 (0.5%)
52	m6	1.19	4/1585 (0.3%)	1.39	16/2128 (0.8%)
53	M7	0.95	0/1443	1.19	4/1944 (0.2%)
53	m7	1.04	1/1250 (0.1%)	1.26	9/1683 (0.5%)
54	M8	1.00	2/1465 (0.1%)	1.24	4/1965 (0.2%)
54	m8	0.90	0/1465	1.24	9/1965 (0.5%)
55	M9	0.76	0/1538	1.11	7/2050 (0.3%)
55	m9	0.73	0/1538	1.04	4/2050 (0.2%)
56	N0	0.99	3/1481 (0.2%)	1.21	10/1990 (0.5%)
56	n0	1.07	1/1481 (0.1%)	1.28	10/1990 (0.5%)
57	N1	0.90	0/1300	1.17	4/1743 (0.2%)
57	n1	0.97	1/1300 (0.1%)	1.19	0/1743
58	N2	0.57	0/812	0.96	1/1099 (0.1%)
58	n2	0.57	0/794	0.99	3/1076 (0.3%)
59	N3	0.92	1/1018 (0.1%)	1.21	2/1369 (0.1%)
59	n3	1.02	0/1018	1.27	3/1369 (0.2%)
60	N4	0.81	0/712	1.35	8/958 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	n4	0.82	0/1052	1.22	10/1398 (0.7%)
61	N5	0.79	0/979	1.10	2/1321 (0.2%)
61	n5	0.72	0/974	1.07	3/1314 (0.2%)
62	N6	0.88	0/1004	1.30	12/1341 (0.9%)
62	n6	0.79	0/1004	1.14	2/1341 (0.1%)
63	N7	0.61	0/1118	1.03	2/1497 (0.1%)
63	n7	0.58	0/1118	1.01	4/1497 (0.3%)
64	N8	0.89	1/1204 (0.1%)	1.21	5/1612 (0.3%)
64	n8	0.89	2/1204 (0.2%)	1.26	13/1612 (0.8%)
65	N9	0.90	0/473	1.19	3/629 (0.5%)
65	n9	0.88	0/473	1.51	8/629 (1.3%)
66	O0	0.59	0/751	1.04	3/1008 (0.3%)
66	o0	0.63	0/775	1.04	3/1040 (0.3%)
67	O1	0.79	0/890	1.14	3/1196 (0.3%)
67	o1	0.85	0/897	1.18	6/1205 (0.5%)
68	O2	1.02	0/1041	1.25	6/1394 (0.4%)
68	o2	1.06	3/1041 (0.3%)	1.29	7/1394 (0.5%)
69	O3	1.07	0/868	1.37	12/1168 (1.0%)
69	o3	1.09	1/868 (0.1%)	1.24	7/1168 (0.6%)
70	O4	0.75	0/890	1.15	3/1189 (0.3%)
70	o4	0.69	0/890	1.14	4/1189 (0.3%)
71	O5	0.81	0/978	1.14	4/1301 (0.3%)
71	o5	0.72	0/974	1.05	2/1297 (0.2%)
72	O6	0.84	1/778 (0.1%)	1.08	3/1034 (0.3%)
72	o6	0.72	0/777	1.06	2/1033 (0.2%)
73	O7	0.92	0/696	1.24	3/923 (0.3%)
73	o7	0.78	0/696	1.19	3/923 (0.3%)
74	O8	0.60	0/618	1.03	2/826 (0.2%)
74	o8	0.60	0/614	1.04	1/822 (0.1%)
75	O9	0.84	0/443	1.13	2/588 (0.3%)
75	o9	0.81	0/443	1.05	0/588
76	Q0	0.90	1/423 (0.2%)	1.24	2/562 (0.4%)
76	q0	1.05	0/423	1.35	2/562 (0.4%)
77	Q1	0.79	0/234	1.09	0/300
77	q1	0.70	0/234	1.06	1/300 (0.3%)
78	Q2	0.92	1/860 (0.1%)	1.15	4/1136 (0.4%)
78	q2	0.83	0/860	1.08	0/1136
79	Q3	0.86	0/701	1.16	2/934 (0.2%)
79	q3	0.82	0/701	1.07	0/934
80	e0	0.64	0/499	1.10	1/665 (0.2%)
81	p0	0.59	0/1091	1.00	1/1472 (0.1%)
All	All	0.65	37/430072 (0.0%)	0.90	907/631360 (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
3	S1	0	1
7	s5	0	2
9	S7	0	1
9	s7	0	1
10	S8	0	1
11	S9	0	1
16	C4	0	1
18	C6	0	1
18	c6	0	1
19	C7	0	1
20	c8	0	1
22	d0	0	1
26	d4	0	1
27	D5	0	2
33	E1	0	1
39	L2	0	1
39	l2	0	1
40	L3	0	1
40	l3	0	1
42	L5	0	1
43	L6	0	1
44	l7	0	1
45	L8	0	1
47	M0	0	1
48	M1	0	1
48	m1	0	1
50	M4	0	1
52	M6	0	1
56	n0	0	2
64	n8	0	1
65	N9	0	1
67	O1	0	1
69	o3	0	1
80	e0	0	1
All	All	0	37

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	m7	146	ILE	CA-CB	-7.84	1.44	1.54
47	M0	165	ILE	CA-CB	7.43	1.63	1.54
52	m6	9	ILE	CA-CB	-7.00	1.46	1.54
56	n0	58	ILE	CA-CB	-6.96	1.46	1.53
78	Q2	17	CYS	CB-SG	6.60	2.03	1.81
72	O6	99	ARG	CA-C	6.51	1.55	1.52
15	c3	66	ILE	CA-CB	6.38	1.63	1.54
44	l7	148	VAL	CA-CB	-6.34	1.46	1.54
56	N0	100	VAL	CA-CB	-6.26	1.47	1.54
56	N0	59	VAL	CA-CB	-5.97	1.46	1.54
59	N3	114	ILE	CA-CB	-5.69	1.47	1.54
35	SM	65	THR	CA-CB	5.67	1.61	1.54
52	m6	162	VAL	CA-CB	-5.67	1.46	1.54
68	o2	28	VAL	CA-CB	-5.67	1.47	1.54
64	N8	112	ILE	CA-CB	-5.55	1.47	1.54
47	M0	127	ALA	CA-CB	-5.54	1.45	1.53
40	l3	343	TYR	CA-C	-5.51	1.45	1.52
47	M0	20	SER	CA-C	-5.49	1.46	1.52
40	l3	25	ILE	CA-CB	-5.48	1.48	1.54
69	o3	105	SER	CA-C	-5.45	1.46	1.52
50	M4	57	ALA	CA-CB	-5.42	1.45	1.53
47	m0	41	ALA	CA-CB	-5.40	1.44	1.53
52	M6	133	ARG	CA-C	-5.32	1.46	1.52
54	M8	48	VAL	CA-CB	-5.31	1.48	1.54
64	n8	144	VAL	CA-CB	-5.19	1.47	1.55
56	N0	64	ILE	CA-CB	-5.11	1.48	1.54
41	L4	56	ALA	CA-CB	-5.11	1.46	1.53
68	o2	41	VAL	CA-CB	-5.09	1.47	1.54
54	M8	129	VAL	CA-CB	-5.08	1.48	1.54
40	l3	106	TRP	CA-C	-5.07	1.46	1.52
68	o2	71	HIS	CA-C	-5.07	1.46	1.52
52	m6	75	ALA	CA-CB	-5.03	1.45	1.53
52	m6	110	PRO	CA-C	5.02	1.56	1.52
64	n8	44	ASN	CA-C	-5.02	1.46	1.52
50	m4	39	ILE	CA-CB	-5.02	1.49	1.55
76	Q0	101	ALA	CA-C	-5.01	1.46	1.52
57	n1	67	VAL	CA-CB	-5.00	1.48	1.54

All (907) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	M5	83	LYS	CA-C-N	-17.15	101.39	120.94
51	M5	83	LYS	C-N-CA	-17.15	101.39	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	N4	80	ARG	CA-C-N	14.68	138.19	119.84
60	N4	80	ARG	C-N-CA	14.68	138.19	119.84
50	M4	30	GLY	N-CA-C	-13.62	98.27	114.48
45	L8	158	ASP	CA-C-N	-13.30	103.22	119.84
45	L8	158	ASP	C-N-CA	-13.30	103.22	119.84
65	n9	23	LYS	CA-C-N	-13.05	103.53	119.84
65	n9	23	LYS	C-N-CA	-13.05	103.53	119.84
35	sM	38	PRO	CA-C-N	12.97	133.74	120.38
35	sM	38	PRO	C-N-CA	12.97	133.74	120.38
41	L4	3	ARG	CA-C-N	12.16	135.04	119.84
41	L4	3	ARG	C-N-CA	12.16	135.04	119.84
43	l6	35	VAL	CA-C-N	-11.85	105.58	120.51
43	l6	35	VAL	C-N-CA	-11.85	105.58	120.51
6	s4	105	VAL	N-CA-C	-11.34	102.31	113.20
4	S2	226	THR	CA-C-N	11.25	130.94	119.24
4	S2	226	THR	C-N-CA	11.25	130.94	119.24
11	s9	143	ILE	CA-C-N	11.21	130.99	119.56
11	s9	143	ILE	C-N-CA	11.21	130.99	119.56
49	m3	47	ALA	CA-C-N	-11.05	108.18	121.00
49	m3	47	ALA	C-N-CA	-11.05	108.18	121.00
22	d0	70	THR	CA-C-N	-10.87	108.81	120.66
22	d0	70	THR	C-N-CA	-10.87	108.81	120.66
29	d7	37	CYS	CA-C-N	10.67	133.18	119.84
29	d7	37	CYS	C-N-CA	10.67	133.18	119.84
8	s6	172	ALA	CA-C-N	10.46	132.91	119.84
8	s6	172	ALA	C-N-CA	10.46	132.91	119.84
9	s7	131	PHE	CA-C-N	-10.37	110.25	120.21
9	s7	131	PHE	C-N-CA	-10.37	110.25	120.21
17	c5	52	LYS	CA-C-N	-10.27	108.72	120.12
17	c5	52	LYS	C-N-CA	-10.27	108.72	120.12
42	l5	83	LEU	CA-C-N	-10.21	108.36	119.19
42	l5	83	LEU	C-N-CA	-10.21	108.36	119.19
73	o7	5	THR	CA-C-N	-9.96	107.39	119.84
73	o7	5	THR	C-N-CA	-9.96	107.39	119.84
45	L8	71	VAL	CA-C-N	9.94	130.62	120.38
45	L8	71	VAL	C-N-CA	9.94	130.62	120.38
42	l5	250	ASP	CA-C-N	9.68	129.45	119.19
42	l5	250	ASP	C-N-CA	9.68	129.45	119.19
4	s2	249	ALA	N-CA-C	9.65	118.01	108.75
20	C8	81	ILE	CA-C-N	9.51	131.72	119.84
20	C8	81	ILE	C-N-CA	9.51	131.72	119.84
68	o2	4	LEU	CA-C-N	-9.48	108.00	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	o2	4	LEU	C-N-CA	-9.48	108.00	119.84
44	l7	95	ILE	CA-C-N	9.44	130.10	120.38
44	l7	95	ILE	C-N-CA	9.44	130.10	120.38
52	m6	108	ILE	CA-C-N	9.18	129.84	120.38
52	m6	108	ILE	C-N-CA	9.18	129.84	120.38
51	M5	93	LYS	N-CA-C	9.17	124.77	112.30
13	c1	135	VAL	N-CA-C	9.13	121.31	107.99
2	s0	166	GLY	N-CA-C	9.12	122.06	110.38
2	s0	103	THR	CA-C-N	9.10	131.21	119.84
2	s0	103	THR	C-N-CA	9.10	131.21	119.84
39	l2	55	GLY	N-CA-C	-9.02	101.56	111.93
56	n0	134	ASP	N-CA-C	-8.97	102.06	113.72
44	L7	98	LYS	CA-C-N	-8.92	110.55	119.56
44	L7	98	LYS	C-N-CA	-8.92	110.55	119.56
55	M9	160	GLU	N-CA-C	-8.89	102.94	113.88
64	n8	67	HIS	N-CA-C	-8.88	101.68	111.36
44	L7	131	GLU	CA-C-N	-8.87	110.72	121.00
44	L7	131	GLU	C-N-CA	-8.87	110.72	121.00
29	D7	37	CYS	CA-C-N	8.79	130.82	119.84
29	D7	37	CYS	C-N-CA	8.79	130.82	119.84
52	m6	57	PHE	N-CA-C	-8.78	102.70	113.50
41	l4	284	SER	N-CA-C	-8.77	101.67	114.39
11	S9	138	LYS	N-CA-C	-8.75	103.13	112.93
76	q0	122	ARG	CA-C-N	-8.74	108.91	119.84
76	q0	122	ARG	C-N-CA	-8.74	108.91	119.84
60	n4	75	THR	N-CA-C	8.73	123.14	108.13
19	c7	117	LEU	CA-C-N	8.72	130.75	119.84
19	c7	117	LEU	C-N-CA	8.72	130.75	119.84
56	N0	134	ASP	N-CA-C	-8.66	102.46	113.72
80	e0	62	VAL	N-CA-C	-8.62	103.44	111.45
40	L3	328	ILE	CA-C-N	-8.61	111.51	120.03
40	L3	328	ILE	C-N-CA	-8.61	111.51	120.03
49	m3	126	PHE	CA-C-N	8.53	128.60	119.90
49	m3	126	PHE	C-N-CA	8.53	128.60	119.90
42	l5	65	ILE	N-CA-C	8.51	120.37	107.77
47	m0	4	ARG	CA-C-N	8.51	129.04	119.93
47	m0	4	ARG	C-N-CA	8.51	129.04	119.93
52	M6	69	GLY	CA-C-N	8.43	128.49	119.89
52	M6	69	GLY	C-N-CA	8.43	128.49	119.89
47	M0	189	GLU	N-CA-C	8.42	123.17	113.15
64	n8	46	ASP	N-CA-C	-8.41	98.65	110.50
54	M8	64	VAL	N-CA-C	-8.36	103.64	113.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	s5	27	THR	CA-C-N	8.22	130.11	119.84
7	s5	27	THR	C-N-CA	8.22	130.11	119.84
70	o4	58	ARG	CA-C-N	8.20	130.08	119.84
70	o4	58	ARG	C-N-CA	8.20	130.08	119.84
73	O7	5	THR	CA-C-N	-8.19	109.61	119.84
73	O7	5	THR	C-N-CA	-8.19	109.61	119.84
12	c0	97	PRO	N-CA-CB	8.17	111.83	103.25
67	o1	87	ASN	CA-C-N	8.15	128.25	119.28
67	o1	87	ASN	C-N-CA	8.15	128.25	119.28
44	L7	227	GLY	N-CA-C	-8.12	103.05	112.79
63	n7	27	LYS	CA-C-N	8.12	129.99	119.84
63	n7	27	LYS	C-N-CA	8.12	129.99	119.84
4	S2	150	GLN	CA-C-N	8.09	128.58	119.93
4	S2	150	GLN	C-N-CA	8.09	128.58	119.93
51	M5	87	GLN	N-CA-C	-8.04	101.96	112.41
64	n8	99	ALA	CA-C-N	8.02	127.95	119.85
64	n8	99	ALA	C-N-CA	8.02	127.95	119.85
42	l5	138	GLY	CA-C-N	8.00	129.83	119.84
42	l5	138	GLY	C-N-CA	8.00	129.83	119.84
15	c3	81	ALA	CA-C-N	7.99	128.04	119.89
15	c3	81	ALA	C-N-CA	7.99	128.04	119.89
78	Q2	65	THR	CB-CA-C	-7.96	104.45	114.40
11	s9	159	ALA	CA-C-N	7.96	127.52	118.85
11	s9	159	ALA	C-N-CA	7.96	127.52	118.85
41	l4	3	ARG	CA-C-N	7.95	129.78	119.84
41	l4	3	ARG	C-N-CA	7.95	129.78	119.84
34	SR	281	TYR	CB-CA-C	-7.94	107.42	116.63
21	c9	89	ARG	CA-C-N	7.92	127.96	119.89
21	c9	89	ARG	C-N-CA	7.92	127.96	119.89
29	d7	27	GLY	CA-C-N	7.89	127.85	120.03
29	d7	27	GLY	C-N-CA	7.89	127.85	120.03
59	n3	5	GLY	N-CA-C	-7.89	105.30	114.69
60	N4	70	LYS	N-CA-C	7.86	118.64	108.34
42	l5	271	LYS	N-CA-C	-7.84	103.78	112.72
69	O3	89	LEU	CA-C-N	-7.84	110.04	119.84
69	O3	89	LEU	C-N-CA	-7.84	110.04	119.84
49	m3	149	GLN	CA-C-N	7.81	129.61	119.84
49	m3	149	GLN	C-N-CA	7.81	129.61	119.84
54	m8	177	GLY	N-CA-C	-7.81	103.75	115.00
12	C0	88	PRO	N-CA-CB	7.75	111.38	103.25
51	m5	75	VAL	CA-C-N	7.71	129.48	119.84
51	m5	75	VAL	C-N-CA	7.71	129.48	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	s8	172	ARG	CA-C-N	7.70	128.10	119.32
10	s8	172	ARG	C-N-CA	7.70	128.10	119.32
66	o0	48	THR	CA-C-N	7.70	129.47	119.84
66	o0	48	THR	C-N-CA	7.70	129.47	119.84
18	C6	40	GLU	CA-C-N	7.70	145.48	127.00
18	C6	40	GLU	C-N-CA	7.70	145.48	127.00
56	n0	59	VAL	N-CA-C	7.66	118.43	110.62
7	S5	75	GLY	N-CA-C	7.65	120.31	111.36
65	n9	36	ASP	CA-C-N	7.65	129.41	119.84
65	n9	36	ASP	C-N-CA	7.65	129.41	119.84
51	M5	185	ALA	N-CA-C	-7.61	103.72	113.16
5	s3	210	GLU	CA-C-N	7.59	129.33	119.84
5	s3	210	GLU	C-N-CA	7.59	129.33	119.84
15	C3	22	ALA	CA-C-N	7.59	145.21	127.00
15	C3	22	ALA	C-N-CA	7.59	145.21	127.00
41	l4	191	LYS	N-CA-C	-7.54	103.19	114.64
41	l4	57	GLY	N-CA-C	-7.52	105.74	114.69
44	l7	192	GLY	CA-C-N	7.51	129.23	119.84
44	l7	192	GLY	C-N-CA	7.51	129.23	119.84
10	S8	29	LEU	N-CA-C	7.51	120.00	110.24
40	l3	48	GLY	N-CA-C	7.50	122.85	110.55
56	n0	150	PHE	CA-C-N	7.49	127.65	120.31
56	n0	150	PHE	C-N-CA	7.49	127.65	120.31
2	s0	151	SER	CA-C-N	7.48	129.19	119.84
2	s0	151	SER	C-N-CA	7.48	129.19	119.84
5	S3	133	GLY	N-CA-C	7.43	121.45	111.72
60	N4	64	THR	N-CA-C	7.42	119.37	111.28
44	l7	96	PRO	CA-C-N	7.42	126.96	119.24
44	l7	96	PRO	C-N-CA	7.42	126.96	119.24
52	m6	27	LEU	N-CA-C	7.42	120.08	111.02
49	M3	149	GLN	CA-C-N	7.39	129.08	119.84
49	M3	149	GLN	C-N-CA	7.39	129.08	119.84
24	D2	59	GLY	N-CA-C	7.39	119.68	111.85
33	E1	123	ASN	CA-C-N	7.39	129.07	119.84
33	E1	123	ASN	C-N-CA	7.39	129.07	119.84
35	sM	167	PRO	N-CA-CB	7.35	110.97	103.25
62	N6	100	HIS	CA-C-N	7.34	129.01	119.84
62	N6	100	HIS	C-N-CA	7.34	129.01	119.84
69	O3	80	VAL	N-CA-C	-7.33	99.25	109.45
33	e1	87	THR	CA-C-N	-7.30	112.11	119.99
33	e1	87	THR	C-N-CA	-7.30	112.11	119.99
42	l5	43	LYS	N-CA-C	-7.30	103.94	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	m9	151	ARG	N-CA-C	-7.29	104.33	112.57
35	SM	167	PRO	N-CA-CB	7.28	110.89	103.25
45	L8	77	GLN	N-CA-C	-7.27	103.67	112.54
51	M5	73	ARG	CA-C-N	7.27	128.93	119.84
51	M5	73	ARG	C-N-CA	7.27	128.93	119.84
64	N8	71	PRO	CA-C-N	-7.26	113.74	123.10
64	N8	71	PRO	C-N-CA	-7.26	113.74	123.10
7	S5	27	THR	CA-C-N	7.24	127.00	119.76
7	S5	27	THR	C-N-CA	7.24	127.00	119.76
44	l7	221	LYS	N-CA-C	-7.24	98.36	109.65
20	c8	145	ARG	CB-CA-C	-7.23	107.40	117.23
36	1	1307	G	P-O3'-C3'	7.22	131.03	120.20
65	N9	20	GLY	N-CA-C	7.22	126.75	113.76
41	l4	192	GLY	N-CA-C	-7.20	103.92	112.64
28	D6	96	ALA	CA-C-N	7.20	127.79	120.38
28	D6	96	ALA	C-N-CA	7.20	127.79	120.38
36	1	1329	U	C4'-C3'-O3'	7.19	120.19	109.40
41	L4	65	TRP	N-CA-C	-7.17	102.56	113.89
51	m5	142	ILE	N-CA-C	-7.17	106.09	111.90
60	n4	14	TYR	CA-C-N	-7.13	112.63	119.76
60	n4	14	TYR	C-N-CA	-7.13	112.63	119.76
24	D2	94	LEU	CA-C-N	7.12	127.11	119.28
24	D2	94	LEU	C-N-CA	7.12	127.11	119.28
61	N5	43	ALA	CA-C-N	7.11	128.73	119.84
61	N5	43	ALA	C-N-CA	7.11	128.73	119.84
50	m4	53	VAL	CA-C-N	7.11	127.10	119.78
50	m4	53	VAL	C-N-CA	7.11	127.10	119.78
13	c1	142	VAL	N-CA-C	7.10	118.35	108.12
73	o7	61	THR	N-CA-C	-7.07	104.27	113.17
64	n8	121	VAL	CA-C-N	7.06	127.49	119.93
64	n8	121	VAL	C-N-CA	7.06	127.49	119.93
66	O0	32	LYS	N-CA-C	-7.05	103.60	111.71
56	N0	68	HIS	CA-C-N	7.04	127.93	120.12
56	N0	68	HIS	C-N-CA	7.04	127.93	120.12
69	O3	77	ASN	N-CA-C	7.03	121.55	113.19
53	m7	64	ASN	N-CA-C	7.03	118.70	110.41
17	C5	124	THR	CA-C-N	7.02	128.62	119.84
17	C5	124	THR	C-N-CA	7.02	128.62	119.84
39	l2	216	HIS	N-CA-C	-7.02	98.73	109.41
6	s4	42	LEU	CA-C-N	7.02	127.06	119.90
6	s4	42	LEU	C-N-CA	7.02	127.06	119.90
55	m9	57	VAL	N-CA-C	7.02	118.68	107.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C3	22	ALA	C-N-CD	-7.01	105.17	120.60
62	N6	56	VAL	N-CA-C	7.00	117.69	107.75
28	D6	97	PRO	N-CA-C	7.00	119.24	110.70
18	C6	40	GLU	C-N-CD	-6.98	105.24	120.60
54	m8	60	PRO	CA-C-N	6.97	128.06	119.98
54	m8	60	PRO	C-N-CA	6.97	128.06	119.98
51	M5	88	GLY	CA-C-N	-6.96	115.91	122.66
51	M5	88	GLY	C-N-CA	-6.96	115.91	122.66
69	O3	92	LYS	N-CA-C	-6.93	104.30	112.89
26	D4	15	ASN	CA-C-N	6.93	126.53	119.19
26	D4	15	ASN	C-N-CA	6.93	126.53	119.19
45	l8	41	GLN	CA-C-N	6.93	126.69	119.76
45	l8	41	GLN	C-N-CA	6.93	126.69	119.76
43	l6	152	THR	CA-C-N	6.92	128.49	119.84
43	l6	152	THR	C-N-CA	6.92	128.49	119.84
9	S7	31	SER	CA-C-N	-6.91	111.20	119.84
9	S7	31	SER	C-N-CA	-6.91	111.20	119.84
31	D9	9	SER	N-CA-C	6.91	117.63	107.88
49	m3	132	ALA	CA-C-N	6.90	128.47	119.84
49	m3	132	ALA	C-N-CA	6.90	128.47	119.84
45	L8	201	THR	N-CA-C	-6.90	104.74	113.43
23	d1	13	VAL	CA-C-N	6.89	126.88	119.78
23	d1	13	VAL	C-N-CA	6.89	126.88	119.78
45	L8	74	THR	N-CA-C	-6.88	105.43	114.31
15	c3	136	PRO	CA-C-N	6.88	128.44	119.84
15	c3	136	PRO	C-N-CA	6.88	128.44	119.84
46	l9	29	GLY	CA-C-N	6.80	128.34	119.84
46	l9	29	GLY	C-N-CA	6.80	128.34	119.84
9	s7	104	ARG	N-CA-C	-6.79	105.62	114.04
2	S0	125	ASP	CA-C-N	6.79	128.33	119.84
2	S0	125	ASP	C-N-CA	6.79	128.33	119.84
41	L4	200	THR	N-CA-C	6.78	118.86	108.42
65	n9	20	GLY	N-CA-C	6.77	120.51	111.03
60	N4	45	ASN	CA-C-N	6.74	128.26	119.84
60	N4	45	ASN	C-N-CA	6.74	128.26	119.84
26	d4	60	PHE	N-CA-C	6.74	119.92	107.99
2	S0	103	THR	CA-C-N	6.70	127.22	119.99
2	S0	103	THR	C-N-CA	6.70	127.22	119.99
11	s9	101	VAL	N-CA-C	6.70	116.80	110.30
8	s6	211	LEU	N-CA-C	-6.69	106.06	114.56
40	L3	278	ILE	N-CA-C	6.69	118.69	109.46
58	n2	21	SER	CA-C-N	-6.68	112.83	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	n2	21	SER	C-N-CA	-6.68	112.83	120.04
47	m0	131	ILE	CB-CA-C	-6.67	102.40	111.33
55	m9	72	GLU	N-CA-C	-6.64	105.16	113.20
30	D8	21	SER	N-CA-C	-6.64	105.05	113.01
39	L2	150	LEU	CA-C-N	-6.59	112.92	120.89
39	L2	150	LEU	C-N-CA	-6.59	112.92	120.89
70	O4	73	SER	N-CA-C	6.59	118.54	111.36
12	c0	83	PRO	N-CA-CB	6.58	110.16	103.25
66	O0	31	VAL	N-CA-C	-6.58	106.38	112.96
65	N9	23	LYS	CA-C-N	-6.58	111.62	119.84
65	N9	23	LYS	C-N-CA	-6.58	111.62	119.84
49	m3	46	ILE	N-CA-C	-6.56	105.25	112.80
72	o6	23	ALA	CA-C-N	6.56	128.04	119.84
72	o6	23	ALA	C-N-CA	6.56	128.04	119.84
53	m7	79	THR	N-CA-C	-6.55	105.83	113.88
14	C2	130	THR	CB-CA-C	-6.54	108.00	115.79
25	D3	142	LYS	CA-C-N	6.54	126.50	119.76
25	D3	142	LYS	C-N-CA	6.54	126.50	119.76
7	s5	29	ILE	CA-C-N	6.54	126.51	120.03
7	s5	29	ILE	C-N-CA	6.54	126.51	120.03
18	c6	14	LYS	CB-CA-C	-6.54	109.02	116.54
6	S4	4	GLY	CA-C-N	6.52	127.99	119.84
6	S4	4	GLY	C-N-CA	6.52	127.99	119.84
25	D3	29	TYR	N-CA-C	-6.52	103.67	111.69
68	O2	9	ILE	CB-CA-C	-6.52	102.97	111.25
50	M4	66	THR	CA-C-N	-6.52	111.69	119.84
50	M4	66	THR	C-N-CA	-6.52	111.69	119.84
44	l7	136	TYR	N-CA-C	6.51	118.11	108.60
5	s3	219	ALA	CA-C-N	6.50	127.97	119.84
5	s3	219	ALA	C-N-CA	6.50	127.97	119.84
78	Q2	65	THR	N-CA-C	6.49	118.44	109.29
5	s3	215	GLU	CA-C-N	6.49	127.96	119.84
5	s3	215	GLU	C-N-CA	6.49	127.96	119.84
15	C3	28	LEU	CB-CA-C	-6.49	109.08	116.54
56	N0	21	GLU	CA-C-N	6.48	126.44	120.21
56	N0	21	GLU	C-N-CA	6.48	126.44	120.21
10	S8	9	HIS	N-CA-C	-6.48	99.68	109.79
45	L8	52	TRP	CA-C-N	6.48	126.85	119.92
45	L8	52	TRP	C-N-CA	6.48	126.85	119.92
51	M5	177	GLY	N-CA-C	6.48	119.99	111.70
13	C1	22	ASN	CA-C-N	6.47	126.09	119.56
13	C1	22	ASN	C-N-CA	6.47	126.09	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S3	219	ALA	CA-C-N	6.46	127.92	119.84
5	S3	219	ALA	C-N-CA	6.46	127.92	119.84
50	m4	13	ARG	N-CA-C	-6.46	100.71	110.28
68	O2	52	GLN	CA-C-N	-6.45	112.40	120.79
68	O2	52	GLN	C-N-CA	-6.45	112.40	120.79
12	c0	88	PRO	N-CA-CB	6.45	110.02	103.25
42	L5	37	VAL	N-CA-C	6.44	116.55	110.30
16	C4	56	SER	CA-C-N	6.43	127.88	119.84
16	C4	56	SER	C-N-CA	6.43	127.88	119.84
69	O3	16	TYR	N-CA-C	-6.43	101.87	110.55
11	S9	39	LYS	N-CA-C	-6.43	105.26	113.23
12	C0	82	LEU	CA-C-N	6.43	126.34	119.85
12	C0	82	LEU	C-N-CA	6.43	126.34	119.85
68	o2	106	VAL	N-CA-C	-6.42	104.00	111.00
40	l3	81	THR	CA-C-N	6.41	124.28	119.66
40	l3	81	THR	C-N-CA	6.41	124.28	119.66
51	m5	185	ALA	N-CA-C	-6.39	105.46	113.20
2	s0	119	ARG	N-CA-C	-6.39	106.07	114.31
16	c4	91	THR	N-CA-C	6.38	118.24	111.28
20	C8	145	ARG	CB-CA-C	-6.37	109.24	116.63
81	p0	41	VAL	N-CA-C	-6.36	105.98	113.42
16	C4	90	ARG	N-CA-C	6.35	114.84	108.75
36	1	1484	U	C2'-C3'-O3'	6.35	119.02	109.50
42	l5	105	ILE	N-CA-C	-6.33	104.47	110.42
51	m5	78	GLY	N-CA-C	-6.33	106.34	115.27
34	sR	157	VAL	N-CA-C	6.33	114.15	107.76
62	n6	95	VAL	CA-C-N	6.33	127.75	119.84
62	n6	95	VAL	C-N-CA	6.33	127.75	119.84
51	M5	85	THR	N-CA-C	-6.32	104.48	111.82
52	m6	110	PRO	CA-C-O	-6.32	111.39	120.56
41	l4	101	ALA	CA-C-N	6.32	126.33	119.89
41	l4	101	ALA	C-N-CA	6.32	126.33	119.89
70	O4	11	ASN	CA-C-N	6.31	127.73	119.84
70	O4	11	ASN	C-N-CA	6.31	127.73	119.84
17	c5	124	THR	CA-C-N	6.31	127.73	119.84
17	c5	124	THR	C-N-CA	6.31	127.73	119.84
52	M6	110	PRO	CA-C-N	6.31	127.73	119.84
52	M6	110	PRO	C-N-CA	6.31	127.73	119.84
47	M0	29	SER	N-CA-C	6.30	118.92	110.35
41	L4	111	VAL	N-CA-C	6.29	116.91	108.11
25	d3	87	VAL	N-CA-C	6.27	114.31	107.60
11	s9	85	VAL	N-CA-C	-6.27	105.72	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	L9	25	VAL	N-CA-C	6.26	116.64	107.37
59	N3	12	ARG	CA-C-N	-6.26	115.02	123.10
59	N3	12	ARG	C-N-CA	-6.26	115.02	123.10
41	L4	327	LEU	N-CA-C	-6.26	102.45	110.53
2	S0	67	ILE	CA-C-N	6.26	127.66	119.84
2	S0	67	ILE	C-N-CA	6.26	127.66	119.84
36	1	2513	U	C4'-C3'-O3'	6.25	118.78	109.40
8	s6	134	GLY	CA-C-N	6.25	126.20	119.76
8	s6	134	GLY	C-N-CA	6.25	126.20	119.76
33	e1	104	SER	N-CA-C	-6.25	105.52	113.01
25	d3	43	PHE	N-CA-C	-6.24	102.47	110.53
8	s6	61	PHE	N-CA-C	6.24	117.24	109.57
30	D8	17	GLY	N-CA-C	6.23	119.61	110.38
16	C4	25	ASP	N-CA-C	6.23	116.66	107.88
34	SR	275	ARG	CA-C-N	6.22	126.71	119.99
34	SR	275	ARG	C-N-CA	6.22	126.71	119.99
41	L4	221	ASN	CA-C-N	-6.22	118.11	122.59
41	L4	221	ASN	C-N-CA	-6.22	118.11	122.59
6	s4	151	ASP	CA-C-N	6.22	125.91	119.56
6	s4	151	ASP	C-N-CA	6.22	125.91	119.56
52	m6	109	PRO	CA-C-N	6.22	126.79	120.38
52	m6	109	PRO	C-N-CA	6.22	126.79	120.38
36	5	1607	U	P-O3'-C3'	6.22	129.53	120.20
16	c4	95	GLY	CA-C-N	6.21	127.61	119.84
16	c4	95	GLY	C-N-CA	6.21	127.61	119.84
48	m1	44	THR	CA-C-N	6.21	127.60	119.84
48	m1	44	THR	C-N-CA	6.21	127.60	119.84
50	m4	105	GLN	N-CA-C	-6.20	104.44	111.14
41	L4	98	ARG	N-CA-C	-6.20	101.28	110.46
39	L2	205	ASN	CA-C-N	6.20	127.58	119.84
39	L2	205	ASN	C-N-CA	6.20	127.58	119.84
44	l7	173	LEU	N-CA-C	-6.20	105.03	112.59
44	l7	242	SER	N-CA-C	-6.20	105.55	113.23
62	N6	95	VAL	CA-C-N	6.19	125.95	119.76
62	N6	95	VAL	C-N-CA	6.19	125.95	119.76
55	M9	114	LYS	N-CA-C	-6.19	104.54	111.28
17	C5	96	ILE	N-CA-C	6.17	116.38	108.12
28	D6	64	LEU	CA-C-N	6.17	127.55	119.84
28	D6	64	LEU	C-N-CA	6.17	127.55	119.84
25	D3	83	VAL	N-CA-C	6.17	116.74	108.11
23	d1	30	ALA	N-CA-C	-6.15	105.82	113.38
75	O9	7	PHE	N-CA-C	-6.14	104.70	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	o3	89	LEU	CA-C-N	6.13	127.50	119.84
69	o3	89	LEU	C-N-CA	6.13	127.50	119.84
44	l7	144	ILE	N-CA-C	-6.12	104.54	110.42
44	L7	192	GLY	CA-C-N	6.12	126.30	119.32
44	L7	192	GLY	C-N-CA	6.12	126.30	119.32
56	n0	7	TYR	N-CA-C	6.12	119.45	109.24
46	l9	48	VAL	N-CA-C	-6.11	105.77	111.45
41	l4	276	LEU	CA-C-N	6.11	127.47	119.84
41	l4	276	LEU	C-N-CA	6.11	127.47	119.84
35	SM	64	LYS	N-CA-C	-6.10	100.96	110.42
54	m8	59	ARG	CA-C-N	-6.10	115.27	119.66
54	m8	59	ARG	C-N-CA	-6.10	115.27	119.66
12	c0	96	ASN	CA-C-N	6.09	127.45	119.84
12	c0	96	ASN	C-N-CA	6.09	127.45	119.84
21	c9	81	GLY	CA-C-N	-6.08	117.48	122.16
21	c9	81	GLY	C-N-CA	-6.08	117.48	122.16
11	s9	4	ALA	CA-C-N	6.08	127.43	119.84
11	s9	4	ALA	C-N-CA	6.08	127.43	119.84
25	D3	124	VAL	N-CA-C	6.07	117.43	111.67
18	C6	14	LYS	CB-CA-C	-6.06	109.60	116.63
50	M4	53	VAL	CA-C-N	6.06	126.02	119.78
50	M4	53	VAL	C-N-CA	6.06	126.02	119.78
53	m7	10	ASN	CA-C-N	6.06	127.41	119.84
53	m7	10	ASN	C-N-CA	6.06	127.41	119.84
47	M0	92	HIS	CA-C-N	6.05	129.36	120.46
47	M0	92	HIS	C-N-CA	6.05	129.36	120.46
3	s1	22	ASP	CA-C-N	6.05	126.17	119.87
3	s1	22	ASP	C-N-CA	6.05	126.17	119.87
41	L4	222	VAL	CA-C-N	6.04	127.39	119.84
41	L4	222	VAL	C-N-CA	6.04	127.39	119.84
43	L6	35	VAL	CA-C-N	6.04	127.39	119.84
43	L6	35	VAL	C-N-CA	6.04	127.39	119.84
64	n8	51	GLY	N-CA-C	-6.03	107.30	114.48
8	s6	90	GLY	N-CA-C	-6.02	106.78	115.27
40	l3	278	ILE	N-CA-C	6.01	117.49	108.96
75	O9	3	ALA	N-CA-C	-6.01	103.11	111.52
25	D3	87	VAL	CA-C-N	6.00	126.34	119.92
25	D3	87	VAL	C-N-CA	6.00	126.34	119.92
34	SR	37	SER	N-CA-C	6.00	116.34	107.88
53	M7	36	ILE	N-CA-C	-6.00	108.01	113.71
41	l4	131	VAL	CB-CA-C	-6.00	103.63	111.25
39	l2	50	HIS	N-CA-C	6.00	118.52	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	m8	60	PRO	O-C-N	6.00	123.97	121.15
44	l7	76	TYR	CA-C-N	-6.00	115.37	123.10
44	l7	76	TYR	C-N-CA	-6.00	115.37	123.10
52	m6	110	PRO	N-CA-C	6.00	118.01	110.70
60	n4	84	GLY	N-CA-C	-5.99	106.99	115.43
15	c3	46	THR	CA-C-N	5.98	127.31	119.84
15	c3	46	THR	C-N-CA	5.98	127.31	119.84
44	l7	110	ARG	CA-C-N	-5.97	114.66	122.37
44	l7	110	ARG	C-N-CA	-5.97	114.66	122.37
27	D5	95	HIS	N-CA-C	5.97	123.52	110.80
14	c2	34	THR	N-CA-C	-5.97	106.03	113.55
15	c3	149	LEU	N-CA-C	-5.97	105.08	112.90
35	SM	51	ARG	CA-C-N	5.96	127.29	119.84
35	SM	51	ARG	C-N-CA	5.96	127.29	119.84
49	M3	55	ARG	CA-C-N	5.96	127.16	120.66
49	M3	55	ARG	C-N-CA	5.96	127.16	120.66
62	N6	19	TYR	N-CA-C	-5.95	104.42	111.03
69	O3	37	THR	CA-C-N	-5.95	113.63	119.64
69	O3	37	THR	C-N-CA	-5.95	113.63	119.64
53	m7	71	ALA	N-CA-C	-5.95	104.73	112.23
4	s2	111	VAL	N-CA-C	5.95	116.42	108.27
48	M1	67	VAL	N-CA-C	5.94	116.92	110.21
20	c8	145	ARG	N-CA-C	5.94	118.59	108.67
34	SR	161	LYS	N-CA-C	5.93	123.44	110.80
60	n4	76	VAL	N-CA-C	5.93	121.67	109.34
3	S1	178	GLY	N-CA-C	-5.92	101.26	112.51
35	SM	38	PRO	CA-C-N	5.92	126.48	120.38
35	SM	38	PRO	C-N-CA	5.92	126.48	120.38
59	n3	126	TRP	CA-C-N	5.92	125.62	119.05
59	n3	126	TRP	C-N-CA	5.92	125.62	119.05
67	o1	107	VAL	N-CA-C	5.92	118.71	108.95
27	D5	98	GLN	N-CA-C	5.92	118.59	109.07
11	s9	172	VAL	N-CA-C	-5.91	104.56	111.00
8	S6	180	THR	CA-C-N	5.91	127.22	119.84
8	S6	180	THR	C-N-CA	5.91	127.22	119.84
39	L2	140	ASN	CA-C-N	5.90	125.28	118.85
39	L2	140	ASN	C-N-CA	5.90	125.28	118.85
51	M5	78	GLY	N-CA-C	-5.90	106.38	114.64
51	M5	174	ILE	CB-CA-C	-5.90	104.27	111.88
47	m0	17	TYR	CA-C-N	-5.89	114.54	120.31
47	m0	17	TYR	C-N-CA	-5.89	114.54	120.31
64	n8	49	HIS	CA-C-N	-5.88	113.88	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	n8	49	HIS	C-N-CA	-5.88	113.88	119.76
50	M4	15	VAL	N-CA-C	-5.88	101.13	108.89
69	O3	24	ASN	CA-C-N	-5.87	113.60	120.12
69	O3	24	ASN	C-N-CA	-5.87	113.60	120.12
64	n8	55	LYS	N-CA-C	5.87	118.78	110.50
51	M5	174	ILE	N-CA-C	5.87	116.13	107.15
41	l4	200	THR	CB-CA-C	-5.87	104.01	111.70
48	m1	124	GLY	N-CA-C	-5.87	103.62	112.60
18	c6	133	GLY	N-CA-C	5.87	121.80	112.06
4	S2	235	LEU	CA-C-N	5.87	127.17	119.84
4	S2	235	LEU	C-N-CA	5.87	127.17	119.84
10	s8	76	THR	N-CA-C	5.86	117.70	108.96
69	O3	5	HIS	N-CA-C	-5.86	106.75	114.31
68	O2	26	HIS	N-CA-C	-5.85	104.81	111.07
15	C3	84	ILE	CA-C-N	5.85	127.15	119.84
15	C3	84	ILE	C-N-CA	5.85	127.15	119.84
49	m3	12	ASN	N-CA-C	5.85	118.98	108.17
12	C0	77	ARG	N-CA-C	-5.84	105.64	112.89
6	S4	194	THR	N-CA-C	5.84	123.24	110.80
24	D2	55	ASP	N-CA-C	-5.84	102.27	110.50
24	d2	55	ASP	N-CA-C	-5.84	102.67	110.55
39	l2	107	VAL	CA-C-N	5.84	126.03	120.31
39	l2	107	VAL	C-N-CA	5.84	126.03	120.31
28	d6	11	ASN	N-CA-C	5.83	118.65	109.96
2	s0	167	LYS	CB-CA-C	-5.83	109.83	116.54
6	S4	136	VAL	N-CA-C	5.83	112.86	107.56
41	L4	197	ARG	N-CA-C	-5.83	103.52	111.56
44	l7	98	LYS	CA-C-N	-5.82	113.68	119.56
44	l7	98	LYS	C-N-CA	-5.82	113.68	119.56
2	s0	6	THR	N-CA-C	-5.82	105.02	111.36
3	s1	205	PHE	CA-C-N	5.82	127.11	119.84
3	s1	205	PHE	C-N-CA	5.82	127.11	119.84
21	C9	30	VAL	CA-C-N	5.80	127.09	119.84
21	C9	30	VAL	C-N-CA	5.80	127.09	119.84
41	L4	63	GLU	N-CA-C	-5.79	101.88	110.46
20	c8	130	GLY	N-CA-C	-5.79	107.00	115.63
24	d2	129	VAL	N-CA-C	5.79	116.41	107.78
44	l7	52	GLN	N-CA-C	-5.79	104.66	110.97
20	C8	86	LEU	N-CA-C	5.78	118.38	109.07
41	L4	269	SER	N-CA-C	5.78	118.13	107.73
58	N2	93	ILE	N-CA-C	5.77	117.17	107.18
79	Q3	54	ILE	N-CA-C	5.77	115.65	106.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	m6	69	GLY	CA-C-N	5.77	126.11	119.93
52	m6	69	GLY	C-N-CA	5.77	126.11	119.93
47	M0	17	TYR	CA-C-N	5.77	126.23	120.52
47	M0	17	TYR	C-N-CA	5.77	126.23	120.52
60	n4	79	GLN	N-CA-C	5.77	118.88	109.59
9	s7	78	THR	N-CA-C	-5.77	104.90	111.07
36	1	1607	U	P-O3'-C3'	5.77	128.85	120.20
68	o2	124	GLY	CA-C-N	-5.76	114.29	122.41
68	o2	124	GLY	C-N-CA	-5.76	114.29	122.41
49	M3	32	LYS	N-CA-C	-5.76	104.64	111.03
50	m4	72	LEU	CA-C-N	-5.75	113.86	119.78
50	m4	72	LEU	C-N-CA	-5.75	113.86	119.78
22	d0	54	GLY	CA-C-N	-5.74	114.02	119.76
22	d0	54	GLY	C-N-CA	-5.74	114.02	119.76
35	sM	82	THR	N-CA-C	5.74	117.74	107.80
36	1	637	C	C4'-C3'-O3'	5.74	118.01	109.40
24	D2	129	VAL	N-CA-C	5.73	116.32	107.78
8	S6	129	VAL	CA-C-N	5.73	125.68	119.78
8	S6	129	VAL	C-N-CA	5.73	125.68	119.78
41	l4	172	VAL	N-CA-C	-5.73	104.97	113.39
27	D5	83	LEU	N-CA-C	-5.73	106.27	113.72
74	O8	50	SER	N-CA-C	5.72	117.10	108.46
40	l3	39	LYS	N-CA-C	-5.72	103.45	110.31
78	Q2	105	GLN	N-CA-C	5.72	118.00	109.25
68	o2	39	ASP	N-CA-C	-5.71	106.96	114.04
2	S0	3	LEU	CA-C-N	5.71	126.97	119.84
2	S0	3	LEU	C-N-CA	5.71	126.97	119.84
49	M3	129	ASN	N-CA-C	5.71	122.95	110.80
57	N1	85	LEU	N-CA-C	-5.70	101.30	110.14
27	d5	54	VAL	CA-C-N	-5.70	112.72	119.84
27	d5	54	VAL	C-N-CA	-5.70	112.72	119.84
48	M1	133	ARG	CA-C-N	5.69	125.70	119.89
48	M1	133	ARG	C-N-CA	5.69	125.70	119.89
44	L7	91	GLY	CA-C-N	-5.69	115.41	121.84
44	L7	91	GLY	C-N-CA	-5.69	115.41	121.84
7	s5	190	ILE	N-CA-C	-5.69	104.82	110.62
4	s2	169	LEU	CA-C-N	-5.68	118.39	123.33
4	s2	169	LEU	C-N-CA	-5.68	118.39	123.33
17	c5	74	ALA	CA-C-N	5.68	126.94	119.84
17	c5	74	ALA	C-N-CA	5.68	126.94	119.84
61	n5	66	PRO	CA-C-N	-5.68	115.73	123.12
61	n5	66	PRO	C-N-CA	-5.68	115.73	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	C3	134	VAL	N-CA-C	-5.68	106.95	112.29
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
42	L5	148	ILE	N-CA-C	-5.68	107.24	113.43
36	5	3269	U	C4'-C3'-O3'	5.68	117.91	109.40
46	L9	41	ILE	N-CA-C	5.67	121.14	109.34
47	M0	27	PRO	CA-C-N	5.67	128.77	120.71
47	M0	27	PRO	C-N-CA	5.67	128.77	120.71
41	l4	129	THR	N-CA-C	-5.67	105.18	111.71
54	m8	42	ALA	CA-C-N	5.67	126.93	119.84
54	m8	42	ALA	C-N-CA	5.67	126.93	119.84
44	l7	229	PHE	CA-CB-CG	5.66	119.46	113.80
50	M4	56	GLN	N-CA-C	5.66	116.87	108.60
44	L7	39	GLU	N-CA-C	-5.66	105.11	111.28
53	m7	13	LYS	N-CA-C	-5.66	106.17	112.57
51	m5	79	ALA	CA-C-N	-5.66	112.63	122.36
51	m5	79	ALA	C-N-CA	-5.66	112.63	122.36
39	L2	201	GLY	N-CA-C	-5.66	105.94	112.73
21	c9	46	PRO	CA-C-N	5.65	125.98	119.93
21	c9	46	PRO	C-N-CA	5.65	125.98	119.93
51	m5	182	ASN	N-CA-C	-5.65	103.07	110.53
52	m6	53	LYS	N-CA-C	-5.65	105.03	111.07
55	M9	105	LEU	N-CA-C	-5.65	105.04	111.14
56	N0	88	HIS	N-CA-C	5.65	117.98	109.23
40	l3	381	GLY	N-CA-C	-5.65	104.26	112.17
8	S6	85	ARG	CA-C-N	5.63	125.95	119.92
8	S6	85	ARG	C-N-CA	5.63	125.95	119.92
48	m1	115	LYS	CA-C-N	-5.63	115.73	122.44
48	m1	115	LYS	C-N-CA	-5.63	115.73	122.44
41	L4	198	ARG	N-CA-C	5.63	119.33	112.23
35	SM	131	ILE	N-CA-C	-5.61	105.15	113.39
69	o3	26	ASN	N-CA-C	5.61	119.86	113.19
36	1	1607	U	C4'-C3'-O3'	5.60	117.80	109.40
28	d6	62	TYR	CB-CA-C	-5.60	110.14	116.63
45	L8	149	LYS	N-CA-C	-5.59	107.70	114.75
36	1	1484	U	P-O3'-C3'	5.59	128.59	120.20
62	N6	86	THR	N-CA-C	5.59	117.29	108.96
52	M6	27	LEU	N-CA-C	5.59	117.82	111.11
56	N0	162	THR	N-CA-C	-5.58	105.20	112.23
40	l3	359	ILE	N-CA-C	5.58	115.92	108.11
29	d7	54	VAL	N-CA-C	5.57	116.89	109.37
52	M6	87	MET	N-CA-C	-5.57	105.17	112.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	m6	120	VAL	CA-C-N	5.57	125.67	119.32
52	m6	120	VAL	C-N-CA	5.57	125.67	119.32
9	s7	49	ILE	N-CA-C	5.57	117.93	108.86
10	S8	81	VAL	N-CA-C	5.56	120.91	109.34
27	d5	98	GLN	N-CA-C	5.56	117.28	107.61
70	o4	85	VAL	N-CA-C	-5.56	105.22	113.39
18	C6	75	VAL	N-CA-C	-5.55	107.40	111.90
41	L4	22	LEU	CA-C-N	5.55	126.42	119.98
41	L4	22	LEU	C-N-CA	5.55	126.42	119.98
54	M8	169	GLY	N-CA-C	-5.55	105.96	111.85
67	O1	95	PRO	CA-C-N	-5.55	115.21	122.37
67	O1	95	PRO	C-N-CA	-5.55	115.21	122.37
63	N7	61	LYS	N-CA-C	-5.55	104.74	112.45
40	l3	328	ILE	N-CA-CB	-5.55	108.00	111.83
55	M9	25	ASP	CA-C-N	5.55	125.25	119.82
55	M9	25	ASP	C-N-CA	5.55	125.25	119.82
26	d4	12	VAL	N-CA-C	5.55	115.31	106.88
69	o3	106	ASN	N-CA-C	-5.55	101.16	109.15
42	l5	62	CYS	N-CA-C	5.54	117.89	108.02
52	m6	18	ARG	N-CA-C	-5.54	106.66	113.41
36	1	1124	U	OP1-P-O3'	5.54	124.61	108.00
60	N4	41	LYS	N-CA-C	-5.53	105.35	111.71
39	l2	122	ASP	N-CA-C	-5.53	105.15	113.89
16	c4	125	SER	N-CA-C	5.53	115.54	108.24
53	m7	144	SER	N-CA-C	5.53	117.47	109.07
23	D1	13	VAL	CA-C-N	5.53	125.83	119.92
23	D1	13	VAL	C-N-CA	5.53	125.83	119.92
8	s6	202	ARG	N-CA-C	-5.53	106.89	113.97
64	n8	44	ASN	N-CA-C	-5.53	105.33	111.36
9	s7	131	PHE	N-CA-C	5.53	122.02	109.81
29	d7	65	THR	CA-C-N	5.53	125.53	119.89
29	d7	65	THR	C-N-CA	5.53	125.53	119.89
40	l3	95	THR	CA-C-N	-5.52	112.94	119.84
40	l3	95	THR	C-N-CA	-5.52	112.94	119.84
68	O2	39	ASP	N-CA-C	-5.52	106.54	113.72
44	l7	36	ALA	N-CA-C	-5.52	106.54	113.72
49	m3	79	GLU	N-CA-C	-5.52	105.81	112.54
67	o1	52	ALA	CA-C-N	-5.51	112.95	119.84
67	o1	52	ALA	C-N-CA	-5.51	112.95	119.84
53	m7	105	LYS	N-CA-C	-5.51	106.72	113.50
74	O8	61	LYS	N-CA-C	-5.50	105.28	111.28
69	o3	80	VAL	N-CA-C	-5.50	102.49	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	L8	26	LEU	N-CA-C	-5.49	105.89	112.59
8	s6	85	ARG	CA-C-N	5.49	125.80	119.93
8	s6	85	ARG	C-N-CA	5.49	125.80	119.93
2	s0	107	PHE	N-CA-C	-5.48	107.24	114.04
36	1	2875	U	P-O3'-C3'	-5.48	111.98	120.20
35	sM	53	ARG	CA-C-N	5.48	125.38	119.85
35	sM	53	ARG	C-N-CA	5.48	125.38	119.85
44	l7	59	GLU	N-CA-C	-5.47	106.96	113.97
64	N8	65	GLN	N-CA-C	-5.47	103.27	110.33
43	l6	59	GLU	N-CA-C	5.47	119.43	112.87
43	L6	60	ASP	N-CA-C	-5.47	103.48	111.30
4	s2	73	LEU	CA-C-N	5.47	126.67	119.84
4	s2	73	LEU	C-N-CA	5.47	126.67	119.84
41	l4	131	VAL	N-CA-C	5.47	116.26	107.73
36	1	637	C	P-O3'-C3'	5.46	128.40	120.20
67	O1	45	GLY	N-CA-C	-5.46	107.24	114.95
30	D8	46	GLY	CA-C-N	5.46	125.73	119.83
30	D8	46	GLY	C-N-CA	5.46	125.73	119.83
40	l3	39	LYS	CA-C-N	-5.46	114.97	120.21
40	l3	39	LYS	C-N-CA	-5.46	114.97	120.21
51	m5	172	ARG	N-CA-C	-5.46	106.62	113.28
44	L7	233	GLU	CB-CA-C	-5.46	110.26	116.54
68	o2	10	VAL	N-CA-C	5.45	116.24	107.73
10	S8	105	ASP	N-CA-C	5.45	118.14	111.82
36	1	282	G	C2'-C3'-O3'	5.45	121.87	113.70
28	d6	26	CYS	N-CA-C	-5.45	104.98	111.03
36	5	2875	U	C4'-C3'-O3'	5.45	121.17	113.00
40	l3	306	THR	CA-C-N	5.45	125.39	119.78
40	l3	306	THR	C-N-CA	5.45	125.39	119.78
12	C0	87	VAL	CA-C-N	5.44	126.64	119.84
12	C0	87	VAL	C-N-CA	5.44	126.64	119.84
46	l9	70	THR	N-CA-C	-5.44	105.51	111.82
11	S9	152	SER	N-CA-C	-5.44	106.50	114.39
41	L4	57	GLY	N-CA-C	-5.44	100.29	113.18
70	o4	71	THR	N-CA-C	5.44	116.25	108.74
13	c1	86	ILE	CB-CA-C	-5.44	105.61	111.59
40	l3	254	ALA	N-CA-C	-5.43	102.72	110.59
4	S2	144	TRP	N-CA-C	-5.42	106.50	113.23
55	M9	112	ALA	N-CA-C	-5.42	106.83	113.50
7	S5	105	GLY	N-CA-C	-5.42	100.94	111.02
12	c0	22	VAL	N-CA-C	5.42	115.51	110.42
52	m6	143	THR	N-CA-C	-5.41	105.54	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	328	ASN	CA-C-N	-5.41	115.31	120.83
41	L4	328	ASN	C-N-CA	-5.41	115.31	120.83
72	O6	28	TYR	N-CA-C	-5.41	99.29	110.80
50	m4	66	THR	CA-C-N	-5.41	113.08	119.84
50	m4	66	THR	C-N-CA	-5.41	113.08	119.84
46	L9	12	VAL	N-CA-C	5.40	113.78	107.89
45	L8	125	ALA	N-CA-C	-5.39	106.55	113.02
52	M6	128	ARG	N-CA-C	5.39	116.97	111.14
4	s2	96	THR	N-CA-C	5.39	117.61	109.41
39	L2	185	ALA	N-CA-C	-5.39	105.32	111.14
33	e1	123	ASN	CA-C-N	5.39	126.57	119.84
33	e1	123	ASN	C-N-CA	5.39	126.57	119.84
55	M9	10	LEU	N-CA-C	-5.38	105.33	111.14
57	N1	131	GLN	CA-C-N	5.38	126.57	119.84
57	N1	131	GLN	C-N-CA	5.38	126.57	119.84
44	l7	118	LYS	N-CA-C	-5.38	101.89	109.96
41	L4	191	LYS	N-CA-C	-5.38	106.59	114.39
5	s3	161	GLY	N-CA-C	5.38	125.93	113.18
44	l7	178	ILE	CB-CA-C	-5.38	102.47	111.29
62	N6	68	GLY	N-CA-C	5.37	117.83	110.69
64	N8	28	HIS	N-CA-C	5.36	117.29	109.30
2	s0	3	LEU	CA-C-N	5.36	126.55	119.84
2	s0	3	LEU	C-N-CA	5.36	126.55	119.84
54	m8	170	ARG	N-CA-C	-5.36	102.96	110.35
25	D3	106	GLY	N-CA-C	-5.35	105.69	112.54
33	E1	151	ASN	N-CA-C	5.35	117.62	108.90
50	M4	70	PHE	N-CA-C	5.35	116.41	108.60
51	m5	90	ASN	N-CA-C	5.35	120.08	113.50
57	N1	128	LEU	N-CA-C	5.35	117.29	110.61
50	M4	23	ILE	CA-C-N	-5.34	113.80	121.98
50	M4	23	ILE	C-N-CA	-5.34	113.80	121.98
53	M7	127	ARG	N-CA-C	-5.34	99.42	110.80
56	N0	4	PHE	N-CA-C	5.34	118.37	110.46
16	C4	90	ARG	CA-C-O	5.34	121.70	118.33
17	c5	108	ARG	CA-C-N	5.34	126.51	119.84
17	c5	108	ARG	C-N-CA	5.34	126.51	119.84
55	m9	8	LYS	N-CA-C	-5.33	106.83	113.55
43	l6	65	ILE	CA-C-N	-5.33	113.30	122.79
43	l6	65	ILE	C-N-CA	-5.33	113.30	122.79
76	Q0	79	GLU	CA-C-N	5.33	124.84	119.19
76	Q0	79	GLU	C-N-CA	5.33	124.84	119.19
1	6	1600	A	N9-C1'-C2'	5.33	121.99	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	c6	111	SER	N-CA-C	-5.32	105.56	111.36
42	l5	23	ARG	N-CA-C	-5.32	104.38	112.04
1	6	158	U	P-O3'-C3'	5.32	128.18	120.20
25	D3	69	ARG	N-CA-C	5.32	119.28	112.26
63	n7	35	SER	N-CA-C	-5.32	103.01	110.50
42	l5	295	GLY	N-CA-C	-5.31	106.34	112.29
16	c4	25	ASP	N-CA-C	5.31	116.07	108.74
48	m1	127	PHE	CA-C-N	-5.31	114.74	122.65
48	m1	127	PHE	C-N-CA	-5.31	114.74	122.65
56	N0	94	ILE	N-CA-C	5.31	115.76	108.12
19	C7	85	VAL	N-CA-C	5.30	120.34	108.88
47	m0	154	ARG	N-CA-C	-5.30	105.62	111.71
4	s2	249	ALA	CA-C-O	5.29	121.66	118.33
52	M6	130	LYS	CA-C-N	-5.29	114.33	119.78
52	M6	130	LYS	C-N-CA	-5.29	114.33	119.78
61	n5	109	LYS	N-CA-C	5.29	116.88	108.79
25	D3	71	CYS	N-CA-C	5.28	116.31	108.86
60	n4	13	ILE	N-CA-C	5.28	114.35	106.85
1	6	25	C	P-O3'-C3'	5.28	128.12	120.20
64	N8	75	LEU	N-CA-C	-5.28	105.64	111.71
73	O7	49	TRP	N-CA-C	-5.28	106.84	113.28
9	S7	87	ASP	N-CA-C	-5.28	106.80	113.23
71	O5	80	LEU	N-CA-C	-5.27	107.22	113.97
47	m0	130	ASP	N-CA-C	5.27	117.54	109.95
7	S5	66	GLN	CA-C-N	5.27	125.73	120.14
7	S5	66	GLN	C-N-CA	5.27	125.73	120.14
41	L4	354	VAL	CB-CA-C	-5.27	105.13	111.88
53	M7	108	ASP	N-CA-C	5.27	117.27	107.99
18	C6	22	VAL	N-CA-C	5.27	113.96	106.53
67	o1	28	ARG	N-CA-C	5.27	116.88	111.03
65	n9	29	TYR	CA-C-N	-5.26	115.31	120.52
65	n9	29	TYR	C-N-CA	-5.26	115.31	120.52
35	SM	65	THR	N-CA-C	-5.26	105.52	113.51
43	L6	175	LYS	N-CA-C	-5.26	103.09	110.50
24	d2	117	ARG	N-CA-C	-5.26	105.63	111.36
8	S6	126	ASP	N-CA-C	-5.26	107.42	113.88
11	s9	153	GLU	N-CA-C	-5.25	105.45	111.07
4	s2	214	ALA	N-CA-C	-5.25	105.45	111.07
8	S6	215	ARG	N-CA-C	-5.25	107.01	113.41
4	s2	150	GLN	CA-C-N	5.24	126.39	119.84
4	s2	150	GLN	C-N-CA	5.24	126.39	119.84
66	O0	97	ASP	N-CA-C	-5.24	106.73	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	s5	207	THR	N-CA-C	-5.24	106.86	113.20
36	1	1820	U	P-O3'-C3'	5.24	128.05	120.20
40	L3	373	PRO	N-CA-C	-5.24	106.71	113.57
1	2	1568	C	P-O3'-C3'	5.23	128.05	120.20
13	C1	131	ILE	N-CA-C	-5.23	107.06	111.56
13	c1	107	VAL	CA-C-N	5.23	126.38	119.84
13	c1	107	VAL	C-N-CA	5.23	126.38	119.84
7	S5	68	ILE	N-CA-C	5.23	114.91	108.53
3	s1	47	LEU	N-CA-C	5.23	117.12	108.13
42	l5	254	LYS	N-CA-C	-5.23	102.93	110.40
6	S4	95	THR	CB-CA-C	-5.22	103.29	111.39
43	l6	75	PRO	CA-C-O	-5.22	115.71	122.13
16	C4	121	VAL	CA-C-N	5.22	125.12	119.85
16	C4	121	VAL	C-N-CA	5.22	125.12	119.85
4	S2	176	SER	N-CA-C	-5.22	105.49	111.07
71	o5	48	ARG	N-CA-C	-5.21	105.49	111.07
46	L9	82	VAL	N-CA-C	-5.21	107.75	113.43
77	q1	24	SER	N-CA-C	-5.21	105.39	112.26
41	l4	181	VAL	CB-CA-C	-5.21	105.22	112.04
52	m6	40	GLU	N-CA-C	-5.20	106.24	112.59
64	n8	54	GLY	N-CA-C	5.20	119.24	112.68
10	s8	83	TYR	N-CA-C	5.19	116.30	108.46
4	s2	49	LYS	N-CA-C	-5.19	106.72	113.16
60	n4	97	LYS	CA-C-N	5.19	126.33	119.84
60	n4	97	LYS	C-N-CA	5.19	126.33	119.84
42	L5	38	THR	N-CA-C	5.19	117.75	110.23
39	l2	246	LEU	CA-CB-CG	5.19	134.46	116.30
5	s3	132	LYS	N-CA-C	-5.18	105.78	112.68
42	l5	10	SER	N-CA-C	-5.18	105.55	111.14
60	n4	78	ALA	N-CA-C	5.18	118.61	109.80
8	s6	180	THR	CA-C-N	5.18	125.22	119.32
8	s6	180	THR	C-N-CA	5.18	125.22	119.32
15	c3	84	ILE	CA-C-N	5.17	124.93	119.76
15	c3	84	ILE	C-N-CA	5.17	124.93	119.76
46	l9	60	GLY	N-CA-C	5.17	120.19	111.04
24	D2	125	ILE	N-CA-C	5.17	115.29	107.80
20	c8	117	LYS	N-CA-C	-5.17	106.82	113.23
78	Q2	93	LEU	N-CA-C	-5.17	105.86	113.61
71	O5	119	LYS	N-CA-C	-5.16	99.81	110.80
43	l6	37	GLY	N-CA-C	-5.16	107.87	114.37
62	N6	113	LYS	N-CA-C	-5.16	105.66	111.28
4	s2	249	ALA	CB-CA-C	-5.16	108.95	116.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	715	A	C4'-C3'-O3'	5.16	120.74	113.00
41	l4	145	ILE	CA-C-N	5.16	126.29	119.84
41	l4	145	ILE	C-N-CA	5.16	126.29	119.84
50	m4	52	GLY	CA-C-N	-5.16	119.09	122.60
50	m4	52	GLY	C-N-CA	-5.16	119.09	122.60
2	S0	141	ILE	N-CA-C	5.15	113.54	107.77
36	1	65	A	C4'-C3'-O3'	5.15	117.12	109.40
6	s4	167	GLY	N-CA-C	-5.15	101.44	111.02
10	S8	122	GLY	N-CA-C	5.15	118.91	111.24
79	Q3	61	LYS	N-CA-C	5.15	118.83	112.24
46	L9	49	ASN	N-CA-C	5.14	121.76	110.80
1	6	1620	C	C2'-C3'-O3'	5.14	121.41	113.70
16	c4	36	LYS	N-CA-C	-5.14	103.70	110.43
3	S1	22	ASP	CA-C-N	5.13	126.26	119.84
3	S1	22	ASP	C-N-CA	5.13	126.26	119.84
6	S4	183	VAL	N-CA-C	5.13	115.74	107.73
62	N6	4	GLN	N-CA-C	-5.13	106.70	113.17
13	c1	79	LYS	N-CA-C	5.13	117.27	111.11
19	c7	106	THR	N-CA-C	-5.13	105.81	111.71
13	C1	90	TYR	CA-CB-CG	5.13	123.14	113.90
54	M8	136	ASN	N-CA-C	5.13	118.83	112.47
41	l4	340	GLY	N-CA-C	-5.13	101.02	113.18
42	l5	6	ASP	N-CA-C	-5.13	102.51	109.54
56	n0	152	LEU	CA-C-N	5.13	126.25	119.84
56	n0	152	LEU	C-N-CA	5.13	126.25	119.84
48	m1	71	VAL	N-CA-C	5.13	115.87	108.48
65	n9	8	THR	N-CA-C	5.12	116.60	108.96
47	m0	37	GLY	N-CA-C	-5.12	104.51	112.45
22	D0	31	VAL	N-CA-C	5.12	116.45	110.62
26	D4	23	PHE	N-CA-C	5.12	116.30	108.42
3	s1	204	ILE	CB-CA-C	-5.12	106.56	111.06
10	s8	77	ARG	N-CA-C	5.12	117.76	111.82
24	d2	129	VAL	CB-CA-C	-5.12	103.16	110.12
41	L4	145	ILE	CA-C-N	5.11	126.23	119.84
41	L4	145	ILE	C-N-CA	5.11	126.23	119.84
56	n0	59	VAL	CB-CA-C	-5.11	105.24	112.14
63	N7	125	GLY	N-CA-C	5.11	125.30	113.18
47	M0	83	ASP	N-CA-C	-5.11	108.07	114.56
1	6	1481	C	C4'-C3'-O3'	5.11	120.67	113.00
2	S0	35	PRO	N-CA-C	-5.11	108.14	114.68
24	D2	111	MET	N-CA-C	5.11	116.83	108.55
44	L7	86	VAL	N-CA-C	5.11	115.33	107.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	n2	103	TYR	N-CA-C	5.11	117.11	108.02
49	M3	75	PHE	N-CA-C	5.10	119.60	113.17
1	6	1568	C	C4'-C3'-O3'	5.10	117.05	109.40
36	1	1307	G	C2'-C3'-O3'	5.10	117.15	109.50
36	5	2272	G	O4'-C1'-N9	5.10	115.85	108.20
26	d4	128	LYS	N-CA-C	-5.10	105.41	110.97
26	D4	56	SER	CA-C-N	-5.10	117.93	123.08
26	D4	56	SER	C-N-CA	-5.10	117.93	123.08
46	l9	28	VAL	N-CA-C	5.10	115.37	107.78
54	M8	169	GLY	CA-C-O	-5.09	118.20	122.33
49	m3	108	ILE	N-CA-C	-5.09	107.18	111.56
72	O6	51	SER	CA-C-N	5.09	126.20	119.84
72	O6	51	SER	C-N-CA	5.09	126.20	119.84
69	O3	20	LYS	N-CA-C	-5.09	105.82	111.36
22	d0	75	GLY	N-CA-C	-5.09	106.85	112.04
41	l4	20	LEU	CA-C-N	5.09	125.81	120.11
41	l4	20	LEU	C-N-CA	5.09	125.81	120.11
63	n7	119	GLU	N-CA-C	-5.08	105.74	111.28
64	n8	75	LEU	N-CA-C	-5.08	105.93	111.82
36	5	1152	G	C4'-C3'-O3'	-5.08	105.38	113.00
62	N6	48	LEU	CA-C-N	5.08	126.19	119.84
62	N6	48	LEU	C-N-CA	5.08	126.19	119.84
44	l7	220	PHE	N-CA-C	5.08	117.05	110.65
53	M7	120	ASN	N-CA-C	5.08	114.85	108.45
36	1	817	A	N9-C1'-C2'	5.07	121.61	114.00
10	s8	35	ASN	N-CA-C	-5.07	106.87	113.16
40	l3	131	THR	N-CA-C	5.07	117.54	111.71
36	1	343	U	O5'-P-OP2	-5.07	92.80	108.00
8	s6	5	ILE	N-CA-C	5.07	115.87	108.58
42	l5	70	THR	N-CA-C	-5.07	107.07	113.20
11	S9	93	LEU	N-CA-C	5.06	119.41	113.23
12	C0	93	GLN	CB-CA-C	-5.06	110.72	116.54
44	L7	183	ASP	N-CA-C	-5.06	105.85	111.36
39	L2	164	GLY	N-CA-C	-5.06	103.76	111.14
44	l7	37	ASN	N-CA-C	-5.05	106.28	112.90
20	C8	82	PRO	N-CA-C	5.05	122.88	112.47
71	O5	87	ALA	CA-C-N	5.05	127.30	120.38
71	O5	87	ALA	C-N-CA	5.05	127.30	120.38
69	o3	37	THR	CA-C-N	-5.05	113.84	119.19
69	o3	37	THR	C-N-CA	-5.05	113.84	119.19
52	M6	105	PHE	N-CA-C	5.05	116.26	107.93
68	O2	42	VAL	CB-CA-C	-5.05	105.75	111.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	N4	36	SER	N-CA-C	-5.04	105.06	111.11
3	S1	153	HIS	N-CA-C	5.04	119.04	112.13
14	c2	92	ALA	N-CA-C	5.04	112.91	108.78
17	c5	30	THR	N-CA-C	-5.04	105.06	111.11
43	l6	84	VAL	N-CA-C	5.04	115.91	108.45
56	n0	21	GLU	CA-C-N	-5.03	115.60	120.98
56	n0	21	GLU	C-N-CA	-5.03	115.60	120.98
9	s7	31	SER	N-CA-C	5.03	120.93	109.81
16	C4	90	ARG	CB-CA-C	-5.03	109.14	116.53
25	d3	36	THR	N-CA-C	-5.03	106.65	112.89
11	S9	135	ALA	CA-C-N	-5.03	118.05	122.97
11	S9	135	ALA	C-N-CA	-5.03	118.05	122.97
1	2	1761	U	C2'-C3'-O3'	5.02	117.04	109.50
66	o0	59	TYR	N-CA-C	-5.02	105.99	111.82
56	N0	23	LYS	N-CA-C	5.02	119.09	112.92
53	m7	85	ALA	N-CA-C	5.02	116.83	111.36
71	o5	35	LYS	N-CA-C	-5.02	105.81	111.28
74	o8	75	VAL	N-CA-C	5.01	115.53	106.61
10	S8	181	GLY	N-CA-C	5.01	118.46	111.19
44	l7	232	ARG	NE-CZ-NH1	-5.01	116.49	121.50
21	C9	113	ILE	N-CA-C	-5.01	108.39	113.20
33	E1	102	VAL	N-CA-C	5.00	119.75	109.34
41	L4	200	THR	CB-CA-C	-5.00	102.02	110.43

There are no chirality outliers.

All (37) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
18	C6	113	ASP	Peptide
19	C7	84	TYR	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
33	E1	146	SER	Peptide
39	L2	19	HIS	Peptide
40	L3	248	LYS	Peptide
42	L5	257	GLU	Peptide
43	L6	17	ALA	Peptide
45	L8	30	THR	Peptide
47	M0	188	GLY	Peptide
48	M1	8	PRO	Peptide
50	M4	112	LEU	Peptide

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Mol	Chain	Res	Type	Group
52	M6	110	PRO	Peptide
65	N9	19	ASN	Peptide
67	O1	5	LYS	Peptide
3	S1	177	GLN	Peptide
9	S7	131	PHE	Peptide
10	S8	8	ARG	Peptide
11	S9	137	GLY	Peptide
18	c6	40	GLU	Peptide
20	c8	144	ARG	Peptide
22	d0	70	THR	Peptide
26	d4	29	HIS	Peptide
80	e0	61	SER	Peptide
39	l2	215	ASN	Peptide
40	l3	234	GLY	Peptide
44	l7	226	GLY	Peptide
48	m1	8	PRO	Peptide
56	n0	133	ALA	Peptide
56	n0	152	LEU	Peptide
64	n8	66	ALA	Peptide
69	o3	105	SER	Peptide
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide
9	s7	30	SER	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37283	0	18758	1144	1
1	6	38238	0	19241	1149	0
2	S0	1577	0	1567	104	0
2	s0	1583	0	1578	101	0
3	S1	1709	0	1784	123	0
3	s1	1722	0	1793	81	0
4	S2	1635	0	1723	94	0
4	s2	1635	0	1723	84	0
5	S3	1734	0	1817	95	0
5	s3	1734	0	1817	79	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	S4	2068	0	2154	110	0
6	s4	2068	0	2154	107	0
7	S5	1609	0	1675	112	0
7	s5	1609	0	1675	102	0
8	S6	1799	0	1879	108	0
8	s6	1755	0	1846	97	0
9	S7	1481	0	1572	90	0
9	s7	1491	0	1578	72	0
10	S8	1489	0	1525	79	0
10	s8	1489	0	1525	68	0
11	S9	1494	0	1573	75	0
11	s9	1494	0	1573	96	0
12	C0	773	0	729	42	0
12	c0	762	0	699	41	0
13	C1	1214	0	1259	72	0
13	c1	1168	0	1231	48	0
14	C2	892	0	891	47	0
14	c2	892	0	891	33	0
15	C3	1192	0	1255	71	0
15	c3	1192	0	1255	71	0
16	C4	891	0	883	63	0
16	c4	949	0	985	55	0
17	C5	977	0	1002	54	0
17	c5	1039	0	1050	71	0
18	C6	1105	0	1166	72	0
18	c6	1111	0	1171	74	0
19	C7	926	0	930	62	0
19	c7	906	0	909	51	0
20	C8	1192	0	1222	79	0
20	c8	1192	0	1222	76	0
21	C9	1112	0	1124	79	0
21	c9	1112	0	1124	70	0
22	D0	855	0	917	57	0
22	d0	882	0	939	51	0
23	D1	684	0	672	39	0
23	d1	684	0	672	55	0
24	D2	1021	0	1060	56	0
24	d2	1021	0	1060	58	0
25	D3	1121	0	1196	66	0
25	d3	1121	0	1196	67	0
26	D4	1073	0	1132	59	0
26	d4	1073	0	1132	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
27	D5	563	0	603	40	0
27	d5	558	0	598	32	0
28	D6	769	0	814	78	0
28	d6	769	0	814	55	0
29	D7	610	0	631	34	0
29	d7	610	0	632	27	0
30	D8	497	0	535	30	0
30	d8	497	0	535	26	0
31	D9	442	0	428	20	0
31	d9	442	0	428	27	0
32	E0	475	0	525	16	0
33	E1	566	0	602	42	0
33	e1	608	0	656	33	0
34	SR	2441	0	2397	133	0
34	sR	2442	0	2392	116	0
35	SM	1104	0	996	59	0
35	sM	679	0	603	30	0
36	1	67355	0	33845	1716	0
36	5	67376	0	33855	1722	1
37	3	2579	0	1304	80	0
37	7	2579	0	1303	73	0
38	4	3353	0	1695	84	0
38	8	3353	0	1695	98	0
39	L2	1914	0	1981	105	0
39	l2	1912	0	1976	110	0
40	L3	3075	0	3142	143	0
40	l3	3075	0	3142	172	0
41	L4	2748	0	2859	164	0
41	l4	2748	0	2859	147	0
42	L5	2375	0	2325	129	0
42	l5	2359	0	2311	125	0
43	L6	1239	0	1326	50	0
43	l6	1248	0	1339	66	0
44	L7	1784	0	1862	111	0
44	l7	1791	0	1869	101	0
45	L8	1804	0	1877	92	0
45	l8	1763	0	1819	96	0
46	L9	1518	0	1587	105	0
46	l9	1518	0	1587	86	0
47	M0	1705	0	1736	95	0
47	m0	1722	0	1755	91	0
48	M1	1353	0	1383	73	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	m1	1353	0	1383	72	0
49	M3	1543	0	1608	86	0
49	m3	1548	0	1613	91	0
50	M4	1053	0	1149	63	0
50	m4	1059	0	1154	59	0
51	M5	1720	0	1779	111	0
51	m5	1720	0	1779	108	0
52	M6	1555	0	1659	107	0
52	m6	1555	0	1659	105	0
53	M7	1420	0	1437	77	0
53	m7	1227	0	1236	80	0
54	M8	1441	0	1543	80	0
54	m8	1441	0	1543	66	0
55	M9	1521	0	1616	95	0
55	m9	1521	0	1617	62	0
56	N0	1445	0	1487	86	0
56	n0	1445	0	1487	83	0
57	N1	1276	0	1323	66	0
57	n1	1276	0	1323	86	0
58	N2	796	0	812	39	0
58	n2	778	0	791	28	0
59	N3	1003	0	1048	76	0
59	n3	1003	0	1048	41	0
60	N4	699	0	640	29	0
60	n4	1038	0	1071	45	0
61	N5	964	0	1025	45	0
61	n5	959	0	1023	47	0
62	N6	993	0	1081	52	0
62	n6	993	0	1081	63	0
63	N7	1092	0	1155	50	0
63	n7	1092	0	1155	55	0
64	N8	1173	0	1215	72	0
64	n8	1173	0	1215	73	0
65	N9	462	0	491	18	0
65	n9	462	0	491	35	0
66	O0	743	0	797	41	0
66	o0	767	0	816	45	0
67	O1	876	0	912	43	0
67	o1	883	0	918	43	0
68	O2	1020	0	1090	59	0
68	o2	1020	0	1090	47	0
69	O3	850	0	880	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	o3	850	0	880	48	0
70	O4	880	0	945	56	0
70	o4	880	0	945	61	0
71	O5	969	0	1078	39	0
71	o5	965	0	1067	50	0
72	O6	771	0	849	44	0
72	o6	770	0	846	41	0
73	O7	681	0	683	51	0
73	o7	681	0	683	32	0
74	O8	612	0	682	36	0
74	o8	608	0	671	32	0
75	O9	436	0	475	25	0
75	o9	436	0	475	22	0
76	Q0	417	0	457	27	0
76	q0	417	0	456	23	0
77	Q1	233	0	284	21	0
77	q1	233	0	284	16	0
78	Q2	847	0	916	40	0
78	q2	847	0	914	49	0
79	Q3	694	0	734	48	0
79	q3	694	0	734	34	0
80	e0	491	0	542	22	0
81	p0	1076	0	1040	52	0
82	m2	750	0	179	7	0
83	p1	235	0	50	2	0
84	p2	230	0	51	2	0
85	1	462	0	0	0	0
85	2	122	0	0	0	0
85	3	15	0	0	0	0
85	4	23	0	0	0	0
85	5	495	0	0	0	0
85	6	147	0	0	0	0
85	7	17	0	0	0	0
85	8	14	0	0	0	0
85	C1	1	0	0	0	0
85	D0	1	0	0	0	0
85	D3	1	0	0	0	0
85	D4	1	0	0	0	0
85	L2	2	0	0	0	0
85	L3	4	0	0	0	0
85	L4	3	0	0	0	0
85	L7	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	L8	1	0	0	0	0
85	M0	3	0	0	0	0
85	M1	1	0	0	0	0
85	M3	2	0	0	0	0
85	M5	2	0	0	0	0
85	M6	1	0	0	0	0
85	M7	5	0	0	0	0
85	M9	1	0	0	0	0
85	N0	1	0	0	0	0
85	N3	3	0	0	0	0
85	N5	1	0	0	0	0
85	N6	2	0	0	0	0
85	N8	5	0	0	0	0
85	O1	1	0	0	0	0
85	O2	2	0	0	0	0
85	O5	1	0	0	0	0
85	O7	2	0	0	0	0
85	Q2	1	0	0	0	0
85	S4	1	0	0	0	0
85	S8	1	0	0	0	0
85	SM	1	0	0	0	0
85	c1	1	0	0	0	0
85	c4	1	0	0	0	0
85	c7	1	0	0	0	0
85	c8	1	0	0	0	0
85	c9	1	0	0	0	0
85	d0	1	0	0	0	0
85	d3	3	0	0	0	0
85	d6	1	0	0	0	0
85	l2	3	0	0	0	0
85	l3	3	0	0	0	0
85	l4	1	0	0	0	0
85	l5	3	0	0	0	0
85	l7	1	0	0	0	0
85	l9	1	0	0	0	0
85	m0	1	0	0	0	0
85	m1	1	0	0	0	0
85	m4	1	0	0	0	0
85	m5	5	0	0	0	0
85	m6	2	0	0	0	0
85	m7	6	0	0	0	0
85	n0	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	n3	1	0	0	0	0
85	n6	2	0	0	0	0
85	n8	3	0	0	0	0
85	n9	2	0	0	0	0
85	o3	2	0	0	0	0
85	o4	3	0	0	0	0
85	o7	1	0	0	0	0
85	q0	2	0	0	0	0
85	q1	1	0	0	0	0
85	s1	1	0	0	0	0
85	s8	1	0	0	0	0
85	sM	1	0	0	0	0
86	1	2478	0	0	204	0
86	2	1106	0	0	106	0
86	3	70	0	0	4	0
86	4	105	0	0	6	0
86	5	2492	0	0	217	0
86	6	1113	0	0	108	0
86	7	84	0	0	12	0
86	8	105	0	0	10	0
86	C3	7	0	0	0	0
86	C5	7	0	0	2	0
86	C8	7	0	0	0	0
86	D3	7	0	0	2	0
86	D9	7	0	0	0	0
86	L3	14	0	0	2	0
86	L4	7	0	0	2	0
86	M0	7	0	0	1	0
86	M5	7	0	0	1	0
86	M7	14	0	0	2	0
86	M9	7	0	0	1	0
86	N9	7	0	0	0	0
86	O1	7	0	0	7	0
86	O3	7	0	0	1	0
86	O7	14	0	0	8	0
86	Q2	7	0	0	2	0
86	S8	7	0	0	0	0
86	SR	7	0	0	0	0
86	c3	7	0	0	1	0
86	c5	7	0	0	1	0
86	c8	7	0	0	0	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	0	0
86	l5	21	0	0	1	0
86	l9	7	0	0	0	0
86	m0	14	0	0	2	0
86	m1	7	0	0	0	0
86	m4	7	0	0	0	0
86	m5	7	0	0	1	0
86	m6	7	0	0	0	0
86	m7	7	0	0	0	0
86	n1	7	0	0	1	0
86	n3	7	0	0	0	0
86	n9	7	0	0	1	0
86	o3	7	0	0	1	0
86	o7	7	0	0	1	0
86	q2	7	0	0	3	0
86	s1	14	0	0	2	0
86	s4	7	0	0	0	0
86	s8	7	0	0	1	0
86	s9	7	0	0	1	0
86	sR	7	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	2	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	30	0	24	2	0
88	5	30	0	25	2	0
All	All	411214	0	297334	14070	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including

hydrogen atoms). The all-atom clashscore for this structure is 20.

All (14070) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:17:CYS:CB	78:Q2:17:CYS:SG	2.03	1.47
78:Q2:17:CYS:CB	87:Q2:501:ZN:ZN	0.98	1.42
78:Q2:17:CYS:SG	87:Q2:501:ZN:ZN	1.30	1.18
36:5:2273:G:O6	86:5:4193:OHX:N5	1.90	1.05
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.37	1.04
8:s6:98:ARG:NH2	8:s6:101:ILE:O	1.95	0.99
2:S0:41:ARG:HE	2:S0:45:VAL:HB	1.26	0.98
1:6:1636:C:H4'	1:6:1637:C:H5'	1.45	0.98
50:m4:55:ARG:NH2	50:m4:76:ALA:O	1.97	0.98
70:O4:80:ARG:HH11	70:O4:88:ARG:HH22	1.04	0.97
67:O1:44:MET:HB2	67:O1:46:THR:HG22	1.46	0.97
36:1:2836:C:H5	36:1:2852:C:H42	1.13	0.97
18:C6:73:GLY:H	18:C6:76:SER:HB2	1.29	0.97
36:5:3182:G:OP1	52:m6:160:ARG:NH2	1.97	0.97
36:1:2206:G:H1	36:1:2237:C:H42	1.11	0.97
26:D4:112:LYS:HE2	26:D4:116:LYS:HD2	1.46	0.96
36:5:1639:C:OP2	70:o4:74:ARG:NH2	1.97	0.96
20:c8:145:ARG:HB3	35:sM:68:ARG:HH12	1.25	0.96
36:5:1178:G:H5''	69:o3:18:ARG:HD3	1.47	0.95
36:1:3166:C:H42	36:1:3284:G:H1	1.13	0.95
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.00	0.94
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.29	0.94
4:S2:170:ILE:HB	4:S2:197:TYR:HB2	1.48	0.94
36:1:439:C:H3'	36:1:440:A:H8	1.31	0.94
61:n5:115:ARG:HD3	61:n5:121:LYS:HE3	1.48	0.94
36:5:343:U:OP2	86:5:3917:OHX:N3	2.01	0.94
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.49	0.94
1:6:1370:U:H4'	1:6:1371:A:H4'	1.49	0.94
1:6:1595:U:H3	1:6:1600:A:H2	1.14	0.94
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.48	0.94
36:5:2181:C:OP1	39:l2:193:ARG:NH2	2.01	0.94
43:l6:31:ARG:HH11	69:o3:107:ILE:HG22	1.33	0.94
40:l3:227:GLU:HG3	40:l3:270:ARG:HE	1.30	0.94
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.08	0.93
36:5:3274:A:H3'	36:5:3275:U:H5''	1.45	0.93
13:c1:99:ARG:HB3	25:d3:12:ALA:HB2	1.48	0.93
47:m0:76:MET:HE3	47:m0:148:VAL:HA	1.49	0.93
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.01	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1280:C:H2'	1:6:1281:G:H8	1.33	0.93
1:6:1688:U:H3	1:6:1713:G:H1	1.05	0.93
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.50	0.93
36:5:2371:G:O6	86:5:3902:OHX:N6	2.02	0.93
1:2:140:A:N6	1:2:281:G:OP1	2.01	0.92
15:C3:101:HIS:O	15:C3:105:ASN:ND2	2.02	0.92
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.51	0.92
36:1:1240:A:H61	36:1:1244:A:H5''	1.35	0.92
1:2:991:G:OP2	86:2:2131:OHX:N1	2.02	0.92
1:2:158:U:O2'	1:2:160:C:OP2	1.89	0.91
62:N6:52:ARG:O	62:N6:54:ASP:N	2.02	0.91
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.52	0.91
41:l4:329:PRO:O	41:l4:331:ALA:N	2.03	0.91
1:2:1595:U:H3	1:2:1600:A:H2	1.17	0.90
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.53	0.90
36:1:439:C:H3'	36:1:440:A:C8	2.06	0.90
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.51	0.90
37:7:86:U:O2	86:7:221:OHX:N4	2.06	0.89
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.53	0.89
1:2:237:C:H5''	1:2:238:U:H5'	1.52	0.89
1:6:1086:A:H5'	4:s2:164:SER:HB3	1.54	0.89
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.06	0.89
1:6:57:G:O6	1:6:90:C:N4	2.05	0.89
51:M5:68:ARG:HG2	51:M5:68:ARG:HH11	1.38	0.89
42:L5:68:THR:HG22	42:L5:70:THR:H	1.36	0.89
78:q2:38:GLN:HE21	78:q2:38:GLN:HA	1.38	0.88
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.53	0.88
2:s0:39:ASN:HD22	19:c7:105:GLN:HG2	1.36	0.88
1:6:1011:G:OP2	86:6:2120:OHX:N3	2.06	0.88
36:1:73:C:N3	49:M3:59:ARG:NH1	2.21	0.88
21:C9:38:LYS:NZ	21:C9:43:ASN:O	2.07	0.88
86:1:3865:OHX:N5	38:4:2:A:OP2	2.05	0.88
43:L6:93:VAL:O	43:L6:95:GLY:N	2.07	0.88
1:6:230:C:N3	1:6:235:G:N2	2.21	0.88
36:1:1514:G:O2'	75:O9:45:ARG:NH2	2.06	0.88
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.53	0.88
36:1:655:C:H2'	36:1:656:A:H8	1.38	0.88
20:C8:49:LYS:NZ	20:C8:79:TYR:O	2.07	0.88
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.62	0.87
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.08	0.87
1:6:754:A:N6	1:6:793:A:N7	2.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:149:ASP:HB2	34:sR:175:ASP:HB3	1.55	0.87
16:c4:107:ARG:NH1	28:d6:52:ASP:OD1	2.08	0.87
1:2:823:G:H2'	1:2:824:G:H8	1.37	0.87
20:C8:145:ARG:HB2	35:SM:68:ARG:HH22	1.40	0.87
71:O5:64:GLU:HA	71:O5:67:ARG:HB3	1.54	0.87
36:1:1268:G:N2	36:1:1269:U:O4	2.08	0.87
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.39	0.87
1:2:1339:C:O2'	1:2:1341:A:N7	2.07	0.86
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.07	0.86
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.56	0.86
17:c5:130:ARG:NH2	35:sM:65:THR:O	2.08	0.86
36:5:503:C:OP1	43:l6:26:ARG:NH1	2.08	0.86
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.39	0.86
36:5:2311:G:OP2	86:5:4193:OHX:N1	2.09	0.86
1:6:448:C:OP2	6:s4:49:ARG:NH1	2.07	0.86
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.55	0.86
34:SR:153:GLN:NE2	34:SR:202:LEU:O	2.09	0.86
37:7:121:U:OP2	42:l5:265:TYR:OH	1.93	0.86
1:6:1562:G:OP1	21:c9:89:ARG:NH2	2.07	0.86
15:C3:103:GLU:HA	15:C3:106:ARG:HH22	1.41	0.85
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.58	0.85
29:d7:56:CYS:SG	29:d7:57:GLU:N	2.47	0.85
41:l4:150:LEU:HD13	41:l4:249:ILE:HG23	1.56	0.85
13:C1:92:HIS:CG	13:C1:93:TYR:H	1.94	0.85
36:1:3376:A:OP2	86:1:3899:OHX:N5	2.08	0.85
48:m1:94:ARG:O	48:m1:96:PHE:N	2.08	0.85
1:2:1228:G:H1	14:C2:67:THR:HB	1.40	0.85
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.39	0.85
28:d6:42:ARG:HH21	28:d6:42:ARG:HB2	1.40	0.85
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.09	0.85
1:6:452:A:OP2	86:6:2061:OHX:N1	2.08	0.85
1:6:895:G:H1	1:6:917:U:H3	1.24	0.85
36:1:1238:C:N4	36:1:1245:A:OP2	2.10	0.85
36:5:1077:U:N3	36:5:1082:U:O4	2.10	0.85
36:5:3165:A:H61	36:5:3285:C:H42	1.19	0.85
36:5:1009:A:N6	36:5:1041:U:O4	2.09	0.85
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.56	0.85
1:2:127:G:N7	8:S6:202:ARG:NH2	2.25	0.84
1:2:1014:G:OP1	86:2:2024:OHX:N3	2.11	0.84
37:7:61:G:H5''	42:l5:276:LYS:HB3	1.57	0.84
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.42	0.84
1:6:1251:U:H4'	33:e1:134:ASN:H	1.41	0.84
38:8:79:A:H3'	38:8:80:A:C8	2.12	0.84
47:m0:156:ARG:O	47:m0:158:LYS:N	2.11	0.84
40:l3:150:ARG:HH11	40:l3:150:ARG:HG2	1.42	0.84
36:1:1567:U:O2	36:1:1571:A:N6	2.09	0.84
1:6:991:G:OP2	86:6:2171:OHX:N2	2.11	0.84
6:s4:117:GLU:O	6:s4:119:ALA:N	2.09	0.84
54:m8:34:THR:HG22	54:m8:49:LEU:HD21	1.60	0.84
37:7:9:C:OP1	57:n1:28:SER:OG	1.94	0.83
1:2:1202:A:OP1	86:2:2110:OHX:N1	2.11	0.83
45:l8:108:ARG:HA	45:l8:111:LYS:HD2	1.60	0.83
1:2:823:G:H2'	1:2:824:G:C8	2.12	0.83
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.11	0.83
58:N2:99:LYS:HB2	58:N2:102:GLU:HB2	1.59	0.83
36:5:1613:A:OP2	74:o8:46:ARG:NH2	2.11	0.83
1:2:933:A:OP1	28:D6:70:LYS:NZ	2.11	0.83
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.58	0.83
27:D5:65:LEU:HB3	27:D5:71:ILE:HD12	1.60	0.83
36:1:964:G:O2'	64:N8:41:HIS:NE2	2.11	0.83
36:1:1824:U:H4'	74:O8:17:ARG:HH12	1.43	0.83
34:sR:169:ILE:HG12	34:sR:183:LEU:HD21	1.59	0.83
1:6:1553:G:N7	17:c5:43:ARG:NH1	2.26	0.83
80:e0:50:VAL:HA	80:e0:54:ARG:HA	1.58	0.83
72:o6:4:LYS:O	72:o6:16:LYS:NZ	2.12	0.83
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.12	0.83
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	1.61	0.83
14:c2:75:VAL:HG11	14:c2:120:VAL:HG11	1.59	0.83
36:1:2534:G:H1	36:1:2545:C:H42	1.27	0.82
37:7:77:G:N2	37:7:102:A:OP2	2.12	0.82
41:l4:226:GLU:OE1	41:l4:237:GLN:NE2	2.12	0.82
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.13	0.82
54:M8:180:ARG:HH11	54:M8:185:LYS:HB3	1.43	0.82
6:s4:45:ILE:HB	6:s4:80:THR:HG22	1.59	0.82
36:5:120:G:N2	45:l8:126:SER:O	2.12	0.82
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.43	0.82
41:l4:299:ILE:HG23	54:m8:39:ARG:HB3	1.59	0.82
36:1:2554:A:H62	79:Q3:62:LYS:HZ2	1.27	0.82
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.60	0.82
78:q2:71:ARG:HE	78:q2:80:ARG:HD3	1.44	0.82
1:6:1341:A:O2'	34:sR:102:ARG:NH2	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1591:G:O2'	36:1:1799:A:N1	2.12	0.82
38:4:70:G:O6	86:O7:104:OHX:N4	2.13	0.82
41:l4:60:THR:HG22	41:l4:62:ALA:H	1.43	0.82
45:l8:148:ALA:O	45:l8:149:LYS:NZ	2.11	0.82
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.60	0.82
44:L7:123:THR:HA	44:L7:126:LEU:HD12	1.59	0.82
1:6:1041:G:OP1	86:6:2175:OHX:N4	2.13	0.82
36:1:1095:U:H4'	36:1:1096:U:H5'	1.61	0.82
61:N5:47:ALA:HB3	71:O5:77:PRO:HG3	1.62	0.82
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.45	0.82
74:o8:58:ASP:HB3	74:o8:61:LYS:HG3	1.60	0.82
36:5:3227:A:H2'	36:5:3228:C:H5'	1.61	0.82
46:l9:28:VAL:HG13	46:l9:33:THR:HB	1.62	0.82
61:n5:115:ARG:HH11	61:n5:115:ARG:HG3	1.45	0.82
52:M6:33:ILE:HG22	52:M6:102:LEU:HD13	1.61	0.82
59:N3:30:GLY:HA3	59:N3:66:LYS:HD2	1.62	0.82
69:O3:21:ARG:HG3	69:O3:21:ARG:HH11	1.44	0.82
1:6:1307:U:O4	1:6:1318:G:N2	2.12	0.82
36:1:1024:G:N7	86:1:4162:OHX:N6	2.28	0.81
26:d4:29:HIS:HB3	26:d4:32:ARG:HB2	1.62	0.81
1:6:1010:C:OP2	86:6:2171:OHX:N3	2.13	0.81
12:c0:32:HIS:CD2	12:c0:33:GLU:H	1.98	0.81
36:1:971:G:OP1	54:M8:8:LYS:NZ	2.11	0.81
1:6:149:C:OP1	26:d4:121:THR:OG1	1.98	0.81
1:6:1597:A:OP1	31:d9:19:ARG:NH2	2.13	0.81
36:5:1555:U:O4	36:5:1557:A:N6	2.13	0.81
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.13	0.81
59:n3:87:ARG:HH12	59:n3:137:VAL:HG11	1.45	0.81
1:6:265:A:N7	8:s6:190:GLN:NE2	2.27	0.81
36:5:3227:A:O2'	50:m4:133:LYS:NZ	2.12	0.81
1:2:477:A:H2'	1:2:478:A:H8	1.45	0.81
1:2:657:U:O2	1:2:677:G:N2	2.13	0.81
1:2:885:G:H21	16:C4:123:SER:HB2	1.43	0.81
6:S4:52:LEU:HB3	6:S4:54:TYR:HD2	1.43	0.81
74:O8:24:THR:HG22	74:O8:76:ASN:HB3	1.63	0.81
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.14	0.81
36:1:1466:G:O6	86:1:3871:OHX:N4	2.13	0.81
36:1:1560:G:N2	36:1:1579:C:O2	2.12	0.81
36:1:3243:A:H4'	40:L3:95:THR:HG22	1.62	0.81
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.13	0.81
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3375:A:O2'	36:1:3378:C:OP2	1.99	0.81
1:6:1552:U:OP2	17:c5:43:ARG:NH2	2.13	0.81
55:M9:23:TRP:CH2	55:M9:25:ASP:HB3	2.15	0.81
39:l2:29:LEU:O	39:l2:123:ARG:NH2	2.14	0.81
1:2:9:U:O4	86:2:2155:OHX:N6	2.14	0.81
1:6:1151:A:O2'	1:6:1766:A:N7	2.12	0.81
4:s2:237:VAL:HB	4:s2:242:ILE:HD11	1.62	0.81
36:5:1212:A:O2'	56:n0:114:HIS:NE2	2.12	0.81
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.61	0.80
10:S8:103:GLN:HG2	10:S8:164:ARG:HG2	1.63	0.80
45:L8:109:LEU:O	45:L8:113:ALA:N	2.13	0.80
3:S1:29:TRP:HE1	3:S1:47:LEU:HG	1.44	0.80
36:1:329:U:OP2	86:1:4038:OHX:N4	2.14	0.80
56:N0:89:ASN:HD21	57:N1:156:TYR:HB3	1.47	0.80
1:2:1010:C:OP2	86:2:2131:OHX:N6	2.15	0.80
37:3:49:G:N7	42:L5:58:LYS:HG3	1.97	0.80
40:L3:252:ILE:HG13	40:L3:266:ARG:HH21	1.43	0.80
68:O2:105:ARG:HE	68:O2:124:GLY:HA3	1.45	0.80
21:c9:57:ARG:HH21	21:c9:101:ASN:HD21	1.30	0.80
17:c5:37:ALA:O	17:c5:42:ARG:NH1	2.14	0.80
2:s0:183:ARG:HG3	2:s0:188:LEU:HD12	1.63	0.80
64:n8:88:ASP:HA	64:n8:91:LEU:HB2	1.63	0.80
8:S6:135:PRO:HB2	8:S6:141:ILE:HG13	1.64	0.80
1:6:18:C:O3'	25:d3:112:LYS:NZ	2.14	0.80
1:6:1160:A:H2'	1:6:1161:C:C6	2.17	0.80
36:5:742:G:N7	86:5:3996:OHX:N4	2.30	0.80
36:5:2236:G:OP1	86:5:4244:OHX:N3	2.15	0.80
36:5:2836:C:H5	36:5:2852:C:H42	1.27	0.80
22:D0:58:LEU:HD12	22:D0:88:LYS:HD2	1.64	0.80
36:5:1750:A:OP2	74:o8:42:LYS:NZ	2.14	0.80
6:S4:191:ARG:HH11	6:S4:245:LYS:HD3	1.47	0.80
41:L4:82:THR:O	41:L4:84:ARG:N	2.14	0.80
53:M7:50:GLN:OE1	53:M7:56:ARG:NH2	2.11	0.80
24:d2:15:ASN:HD21	24:d2:71:LYS:HG3	1.45	0.80
36:5:332:C:O2	38:8:31:G:N2	2.14	0.80
1:2:1435:G:N7	12:C0:25:LYS:NZ	2.30	0.79
1:6:1294:G:O6	86:6:2068:OHX:N5	2.14	0.79
3:s1:92:GLN:HG2	3:s1:97:LEU:HD21	1.64	0.79
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.64	0.79
69:o3:20:LYS:HG2	69:o3:21:ARG:HG3	1.64	0.79
1:2:1280:C:H2'	1:2:1281:G:H8	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1498:G:H5''	21:C9:72:GLY:HA3	1.64	0.79
13:C1:72:THR:HG22	13:C1:124:THR:HG23	1.65	0.79
5:s3:70:THR:HG23	5:s3:86:LEU:HB2	1.63	0.79
61:n5:132:ALA:HA	61:n5:135:ILE:HG22	1.63	0.79
36:1:3166:C:N3	36:1:3284:G:N2	2.27	0.79
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	2.15	0.79
59:N3:74:MET:HG3	59:N3:102:ILE:HD13	1.64	0.79
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.15	0.79
36:5:272:G:OP2	86:5:4068:OHX:N6	2.15	0.79
33:E1:144:CYS:HB3	33:E1:147:VAL:HG13	1.64	0.79
34:SR:161:LYS:HG2	34:SR:161:LYS:O	1.82	0.79
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.65	0.79
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.15	0.79
1:6:826:U:O4	86:6:2065:OHX:N3	2.15	0.79
36:5:3024:A:H5''	46:l9:96:HIS:CD2	2.17	0.79
36:1:356:C:OP2	86:1:4138:OHX:N1	2.15	0.79
50:M4:113:THR:HG22	50:M4:116:GLU:H	1.46	0.79
60:N4:54:LEU:HD12	60:N4:54:LEU:H	1.46	0.79
7:s5:68:ILE:HD12	7:s5:69:PHE:H	1.46	0.79
36:1:998:A:N6	36:1:1050:U:O4	2.14	0.79
36:5:3043:C:OP2	59:n3:48:ARG:NH2	2.16	0.79
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.15	0.79
1:6:1783:C:H2'	1:6:1784:C:H6	1.46	0.79
36:5:2433:U:H1'	51:m5:125:SER:HB3	1.64	0.79
36:5:3035:A:OP2	86:5:4045:OHX:N5	2.16	0.79
1:6:982:U:OP1	86:6:2075:OHX:N2	2.15	0.79
36:5:501:A:H2'	36:5:502:U:H6	1.46	0.79
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	1.65	0.79
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.17	0.79
34:sR:197:SER:HB3	34:sR:217:ASP:HB3	1.64	0.79
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.16	0.79
39:l2:149:ARG:NH2	39:l2:252:THR:O	2.16	0.79
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.64	0.79
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.16	0.79
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.00	0.79
1:2:1794:A:OP1	86:2:2091:OHX:N4	2.16	0.78
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.65	0.78
20:C8:82:PRO:HB2	20:C8:85:PHE:HB2	1.65	0.78
36:1:1473:G:OP2	55:M9:8:LYS:NZ	2.16	0.78
47:M0:171:TRP:O	47:M0:174:THR:OG1	1.99	0.78
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:50:ALA:O	16:c4:52:ARG:N	2.15	0.78
60:n4:97:LYS:HG3	60:n4:98:PRO:HD2	1.65	0.78
1:2:4:C:OP1	4:S2:200:SER:OG	2.01	0.78
34:SR:70:ASP:OD2	34:SR:155:ARG:NH2	2.14	0.78
36:1:255:A:H2'	36:1:256:G:H8	1.49	0.78
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.16	0.78
46:L9:49:ASN:O	46:L9:51:GLN:N	2.16	0.78
10:s8:76:THR:HG23	10:s8:108:PRO:HG2	1.63	0.78
86:5:4238:OHX:N3	47:m0:112:GLN:O	2.16	0.78
42:L5:279:LYS:HE3	42:L5:282:ARG:HH11	1.46	0.78
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.16	0.78
1:6:813:U:OP2	15:c3:76:LYS:NZ	2.15	0.78
18:c6:112:TYR:O	18:c6:114:ARG:NH1	2.16	0.78
36:5:2211:U:O4	86:5:3955:OHX:N4	2.17	0.78
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.17	0.78
36:1:2732:G:OP2	86:1:4201:OHX:N2	2.17	0.78
42:L5:34:LYS:HA	57:N1:27:LEU:HD21	1.65	0.78
1:6:105:A:OP1	10:s8:18:ARG:NH1	2.16	0.78
36:5:1216:C:O2	36:5:1289:G:N2	2.16	0.78
1:2:1588:G:OP1	86:2:2116:OHX:N3	2.17	0.78
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.66	0.78
12:C0:77:ARG:HG3	12:C0:82:LEU:HD12	1.65	0.78
28:D6:79:ILE:HG12	28:D6:84:VAL:HG21	1.63	0.78
41:L4:145:ILE:HD11	41:L4:148:ILE:HD12	1.63	0.78
48:M1:62:ASN:ND2	78:Q2:101:GLY:O	2.16	0.78
40:I3:221:THR:HG22	40:I3:273:HIS:H	1.48	0.78
9:S7:149:ILE:HG23	9:S7:180:GLN:HB3	1.63	0.78
11:S9:65:LYS:HA	11:S9:70:LEU:HD21	1.66	0.78
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.17	0.78
1:2:697:C:O2'	1:2:699:U:OP2	2.00	0.78
36:5:980:A:H2'	36:5:981:U:C2	2.19	0.78
47:m0:36:LEU:HD11	47:m0:87:LEU:HD12	1.66	0.78
81:p0:26:PHE:HB2	81:p0:87:VAL:HB	1.66	0.78
1:6:1034:C:HO2'	24:d2:2:THR:N	1.82	0.78
7:s5:95:ASN:OD1	7:s5:107:LYS:NZ	2.15	0.78
35:SM:48:ARG:HD3	35:SM:51:ARG:HB2	1.66	0.78
36:1:347:G:N7	73:O7:55:ARG:NH2	2.32	0.78
34:sR:90:ARG:HH21	34:sR:102:ARG:HH21	1.29	0.78
20:C8:11:PHE:HD2	20:C8:59:GLY:HA3	1.49	0.77
59:N3:87:ARG:HH22	59:N3:137:VAL:HG21	1.47	0.77
30:d8:15:VAL:HA	30:d8:28:VAL:HG23	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.17	0.77
62:n6:61:GLY:O	62:n6:63:LYS:N	2.17	0.77
36:1:1243:G:N2	36:1:1244:A:N7	2.33	0.77
36:1:1565:G:N2	36:1:1574:C:O2	2.17	0.77
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.67	0.77
46:L9:9:GLN:HG2	46:L9:52:LEU:HD21	1.65	0.77
34:sR:249:ARG:NH1	34:sR:298:GLY:O	2.17	0.77
1:2:1297:G:N2	1:2:1300:A:OP2	2.16	0.77
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.67	0.77
36:1:964:G:HO2'	64:N8:41:HIS:HE2	1.25	0.77
54:M8:43:PRO:HA	54:M8:46:LYS:HD2	1.64	0.77
1:6:1734:U:H2'	1:6:1735:U:H6	1.49	0.77
7:s5:35:GLN:O	7:s5:37:GLN:N	2.17	0.77
40:l3:360:ASP:OD1	40:l3:371:GLN:NE2	2.18	0.77
57:n1:83:ARG:HD2	57:n1:85:LEU:HD21	1.65	0.77
36:1:2662:G:H2'	36:1:2663:G:C8	2.18	0.77
22:D0:24:ILE:HG12	22:D0:116:VAL:HG13	1.67	0.77
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.66	0.77
3:s1:157:GLN:OE1	86:s1:302:OHX:N3	2.17	0.77
36:5:2255:A:H5'	36:5:2261:G:H22	1.50	0.77
62:n6:57:LEU:HD23	62:n6:67:GLU:HG2	1.64	0.77
76:q0:106:ARG:HB2	76:q0:106:ARG:HH11	1.48	0.77
1:2:1203:A:OP2	86:2:2110:OHX:N5	2.17	0.77
1:2:1325:A:OP2	19:C7:11:ARG:NH1	2.18	0.77
50:M4:55:ARG:HD3	56:N0:70:THR:HB	1.67	0.77
79:Q3:49:ARG:HD3	79:Q3:50:GLY:H	1.49	0.77
18:c6:109:PHE:O	18:c6:113:ASP:N	2.18	0.77
1:2:197:A:H61	10:S8:138:ASN:HD22	1.31	0.77
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.16	0.77
36:1:1077:U:N3	36:1:1082:U:O4	2.15	0.77
36:1:1878:G:OP1	86:1:3920:OHX:N4	2.17	0.77
36:1:2120:A:OP2	86:1:4003:OHX:N2	2.18	0.77
36:1:2233:A:OP2	86:1:4039:OHX:N5	2.16	0.77
36:5:2223:A:N6	36:5:2783:U:O2'	2.16	0.77
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.17	0.77
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.58	0.77
4:S2:243:TYR:HB3	4:S2:246:GLU:HB2	1.65	0.77
15:C3:73:ARG:O	15:C3:77:SER:OG	2.02	0.77
36:1:269:G:OP2	51:M5:44:ARG:NH2	2.18	0.77
36:1:1015:U:O2'	36:1:1017:C:OP2	2.02	0.77
41:L4:64:SER:HA	41:L4:75:PRO:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:915:A:OP1	86:6:2070:OHX:N6	2.17	0.77
15:c3:47:PRO:HG3	15:c3:72:MET:HG3	1.67	0.77
44:l7:93:ASN:OD1	44:l7:93:ASN:N	2.18	0.77
7:S5:84:LYS:HG2	7:S5:92:ARG:HH12	1.48	0.77
66:O0:29:SER:HA	66:O0:32:LYS:HD3	1.65	0.77
36:5:651:G:O2'	36:5:1435:A:OP1	2.03	0.77
36:5:1497:C:H2'	36:5:1498:A:H8	1.47	0.77
9:S7:98:ILE:HG12	9:S7:121:VAL:HG21	1.66	0.77
20:C8:83:ALA:O	20:C8:89:GLN:NE2	2.18	0.77
36:1:2585:G:N7	45:L8:47:SER:OG	2.18	0.77
76:Q0:91:CYS:O	76:Q0:126:LYS:NZ	2.15	0.77
1:6:1796:C:O2'	28:d6:95:ARG:NH1	2.18	0.77
26:d4:64:PHE:O	26:d4:66:GLY:N	2.17	0.77
46:L9:163:GLN:O	46:L9:166:ARG:HD3	1.84	0.76
47:M0:36:LEU:HD11	47:M0:69:ARG:HD3	1.67	0.76
1:6:709:C:O2	1:6:730:G:N2	2.17	0.76
36:5:1540:U:OP1	86:5:4088:OHX:N2	2.17	0.76
24:D2:30:SER:HA	24:D2:34:ILE:HD12	1.65	0.76
3:s1:71:ALA:HB3	16:c4:114:ARG:HH12	1.50	0.76
50:m4:94:TRP:O	50:m4:97:SER:OG	2.02	0.76
9:S7:44:LYS:NZ	9:S7:95:GLU:OE2	2.17	0.76
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.67	0.76
49:M3:124:ILE:HD11	49:M3:126:PHE:HE1	1.50	0.76
73:O7:87:SER:O	86:O7:104:OHX:N3	2.18	0.76
6:s4:151:ASP:HB3	6:s4:154:ILE:HG13	1.66	0.76
41:l4:330:TYR:CZ	44:l7:49:ALA:HA	2.21	0.76
46:l9:124:ARG:HB3	46:l9:164:ILE:HD13	1.67	0.76
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.67	0.76
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.19	0.76
36:1:953:G:OP1	65:N9:15:LYS:NZ	2.15	0.76
1:6:471:A:OP2	86:6:2102:OHX:N5	2.17	0.76
11:s9:168:ARG:HH12	11:s9:171:ARG:HD3	1.51	0.76
36:5:2537:U:O2'	36:5:2538:U:O4'	2.03	0.76
47:m0:174:THR:OG1	47:m0:175:ASN:N	2.17	0.76
7:S5:57:SER:O	7:S5:59:VAL:N	2.18	0.76
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.18	0.76
37:3:17:A:OP1	42:L5:2:ALA:N	2.19	0.76
1:6:1252:C:H5'	33:e1:103:LEU:HD11	1.68	0.76
36:5:566:G:N7	86:5:4126:OHX:N5	2.34	0.76
36:5:1233:G:N2	36:5:1255:C:O2	2.17	0.76
37:7:13:A:N3	42:l5:24:ARG:NH2	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:d5:58:ARG:HB3	27:d5:103:ARG:HE	1.49	0.76
36:5:847:A:H2'	36:5:848:A:C8	2.21	0.76
1:2:732:G:O6	86:2:2129:OHX:N5	2.19	0.76
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.67	0.76
1:2:1508:U:O4	86:2:2031:OHX:N5	2.19	0.76
8:S6:115:LYS:NZ	60:N4:73:ARG:O	2.16	0.76
8:s6:153:VAL:O	8:s6:155:ASP:N	2.19	0.76
36:5:2996:U:OP1	36:5:2996:U:H4'	1.82	0.76
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.18	0.76
1:6:1568:C:OP1	20:c8:36:LYS:NZ	2.19	0.76
33:e1:121:CYS:HB3	33:e1:132:LEU:HD21	1.68	0.76
1:2:814:A:H5'	55:M9:170:ARG:HH22	1.51	0.76
36:1:269:G:H5''	51:M5:14:LYS:HE2	1.68	0.76
9:s7:66:SER:O	9:s7:68:ALA:N	2.18	0.76
51:m5:45:PRO:O	51:m5:49:ARG:HB2	1.86	0.76
53:m7:120:ASN:OD1	53:m7:120:ASN:N	2.17	0.76
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.68	0.76
34:SR:160:GLU:O	34:SR:162:ALA:N	2.18	0.76
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.67	0.76
8:s6:78:THR:HA	8:s6:92:ARG:HG2	1.68	0.76
9:s7:177:THR:HG23	9:s7:179:LYS:H	1.51	0.76
66:o0:30:THR:HG22	66:o0:91:SER:HB3	1.67	0.76
1:2:229:U:H3	1:2:236:A:H61	1.33	0.75
1:2:312:A:H4'	1:2:313:U:H5''	1.68	0.75
1:2:1500:C:N4	1:2:1507:G:O6	2.18	0.75
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	1.68	0.75
6:s4:123:LEU:HD23	6:s4:228:ILE:HG22	1.68	0.75
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.19	0.75
36:5:1696:A:OP2	86:5:4180:OHX:N6	2.19	0.75
1:2:693:U:H5'	1:2:694:U:H5'	1.67	0.75
37:3:49:G:O6	42:L5:58:LYS:NZ	2.16	0.75
1:6:1239:U:O2	1:6:1246:C:N4	2.19	0.75
7:s5:206:SER:O	7:s5:212:LYS:NZ	2.19	0.75
51:m5:96:ARG:HH11	51:m5:96:ARG:HG2	1.49	0.75
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.68	0.75
62:N6:83:ASP:O	62:N6:84:LYS:HB2	1.86	0.75
5:s3:94:ARG:NH2	5:s3:125:TYR:OH	2.18	0.75
23:d1:17:CYS:HB2	23:d1:56:SER:HB3	1.66	0.75
36:5:2697:A:H2'	36:5:2698:G:C8	2.21	0.75
1:2:134:U:OP1	1:2:136:C:N4	2.20	0.75
1:2:687:G:H5'	24:D2:119:LYS:HG2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:52:LYS:O	26:D4:54:ALA:N	2.14	0.75
41:L4:264:SER:O	41:L4:266:THR:N	2.19	0.75
70:O4:80:ARG:NH1	70:O4:88:ARG:HH22	1.81	0.75
3:s1:149:GLN:HE21	3:s1:151:LYS:HG2	1.50	0.75
17:c5:127:ARG:O	17:c5:129:GLY:N	2.19	0.75
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.66	0.75
9:S7:131:PHE:O	9:S7:133:THR:N	2.19	0.75
36:1:1382:G:O6	36:1:1424:C:N4	2.18	0.75
7:s5:92:ARG:HH11	7:s5:92:ARG:HG2	1.50	0.75
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.18	0.75
36:5:86:G:O2'	36:5:98:G:O6	2.03	0.75
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.69	0.75
13:C1:95:PRO:O	13:C1:98:ASN:N	2.16	0.75
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.66	0.75
45:L8:101:THR:H	45:L8:104:GLU:HB2	1.50	0.75
48:M1:34:SER:HB2	48:M1:67:VAL:HG11	1.67	0.75
49:M3:79:GLU:OE1	49:M3:112:ASN:ND2	2.18	0.75
72:O6:26:ILE:O	72:O6:28:TYR:N	2.17	0.75
4:s2:60:SER:OG	23:d1:15:ARG:NH2	2.20	0.75
36:5:1383:G:O6	86:5:3929:OHX:N2	2.20	0.75
36:1:266:A:OP1	51:M5:5:LYS:NZ	2.19	0.75
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.20	0.75
70:O4:11:ASN:OD1	70:O4:18:ASN:ND2	2.18	0.75
1:6:1556:A:OP1	17:c5:115:TYR:OH	2.04	0.75
1:6:1765:A:OP1	86:6:2126:OHX:N2	2.18	0.75
34:sR:52:GLN:HG2	34:sR:53:LYS:HG3	1.67	0.75
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.68	0.75
1:2:1542:G:N2	1:2:1569:A:OP2	2.18	0.75
22:D0:72:ASN:HD22	22:D0:74:GLU:H	1.34	0.75
36:1:2588:U:OP1	45:L8:48:ARG:NH2	2.19	0.75
1:6:833:U:O4	86:6:2100:OHX:N2	2.20	0.75
36:5:166:C:N4	36:5:256:G:O6	2.18	0.75
36:5:1598:G:OP2	70:o4:31:ARG:NH2	2.19	0.75
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.20	0.75
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.22	0.75
1:2:520:A:H2'	1:2:521:A:C8	2.22	0.74
1:2:1585:U:H3	1:2:1611:A:H2	1.35	0.74
2:S0:76:ILE:HG12	2:S0:98:ILE:HG13	1.69	0.74
36:1:655:C:H2'	36:1:656:A:C8	2.21	0.74
36:1:2532:U:H3	36:1:2547:A:H61	1.31	0.74
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:113:ALA:HA	59:N3:132:ASN:HB3	1.68	0.74
86:6:2159:OHX:N2	25:d3:64:PRO:O	2.20	0.74
36:5:95:A:H5'	64:n8:34:MET:HB2	1.68	0.74
36:5:2221:G:N2	36:5:2224:A:OP2	2.19	0.74
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.02	0.74
60:N4:9:SER:HA	60:N4:52:THR:HG22	1.68	0.74
7:s5:216:GLU:HG3	7:s5:219:ARG:HH21	1.51	0.74
36:5:2568:C:N4	36:5:2574:G:O6	2.19	0.74
1:6:990:C:OP2	86:6:2120:OHX:N2	2.20	0.74
36:5:2821:C:H42	36:5:2869:U:H3	1.35	0.74
3:S1:157:GLN:O	3:S1:159:SER:N	2.20	0.74
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.67	0.74
34:SR:292:LEU:HD12	34:SR:301:LEU:HD11	1.69	0.74
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.52	0.74
6:s4:151:ASP:OD1	8:s6:215:ARG:NH1	2.21	0.74
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.34	0.74
36:1:2121:G:O2'	36:1:2122:G:OP1	2.05	0.74
64:N8:95:SER:HA	64:N8:122:PRO:HG2	1.69	0.74
1:6:1066:C:O2'	3:s1:148:ASN:ND2	2.21	0.74
1:2:531:C:OP2	86:2:2069:OHX:N4	2.20	0.74
36:1:968:G:H2'	36:1:969:C:C6	2.22	0.74
36:1:2818:U:H5'	36:1:2818:U:H6	1.51	0.74
40:L3:183:LEU:O	40:L3:191:LYS:NZ	2.20	0.74
64:N8:14:HIS:O	64:N8:16:SER:N	2.21	0.74
1:2:176:C:OP1	86:2:2072:OHX:N3	2.20	0.74
36:1:269:G:P	51:M5:44:ARG:HH22	2.10	0.74
36:1:1898:G:OP2	86:1:3924:OHX:N4	2.20	0.74
2:S0:124:THR:HA	2:S0:146:LEU:HB2	1.70	0.74
67:O1:31:ARG:HH11	67:O1:31:ARG:HB3	1.53	0.74
1:6:484:C:H42	1:6:503:G:H22	1.33	0.74
45:l8:148:ALA:HA	45:l8:201:THR:HG22	1.69	0.74
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.52	0.74
40:L3:308:MET:HB2	40:L3:363:SER:HB2	1.69	0.74
36:5:1564:U:H2'	36:5:1565:G:C8	2.23	0.74
45:l8:65:LEU:HD12	51:m5:25:VAL:HG13	1.69	0.74
1:2:1473:U:O2'	7:S5:103:ASN:ND2	2.20	0.74
36:1:2848:G:OP1	76:Q0:100:TYR:OH	2.05	0.74
53:M7:25:SER:O	53:M7:29:THR:HG23	1.88	0.74
1:6:418:G:O2'	8:s6:59:GLN:NE2	2.21	0.74
37:7:62:U:O3'	42:l5:285:ARG:NH1	2.21	0.74
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:5:SER:OG	62:N6:6:LEU:N	2.18	0.73
1:6:1432:U:H4'	1:6:1433:G:H5'	1.69	0.73
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.21	0.73
36:5:501:A:H2'	36:5:502:U:C6	2.23	0.73
36:5:1487:G:H1	36:5:1855:U:H3	1.36	0.73
36:1:2208:A:N1	86:1:4039:OHX:N2	2.36	0.73
6:s4:176:ASP:N	6:s4:176:ASP:OD2	2.18	0.73
8:s6:2:LYS:HB3	8:s6:108:VAL:HG12	1.68	0.73
28:d6:10:ARG:HB2	28:d6:34:LYS:HA	1.70	0.73
28:d6:40:ALA:HB3	28:d6:69:ASN:HB3	1.70	0.73
36:5:1015:U:O2'	36:5:1017:C:OP1	2.06	0.73
1:2:474:A:OP2	11:S9:44:ARG:NH1	2.20	0.73
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.18	0.73
36:1:595:G:N1	36:1:609:G:H5''	2.02	0.73
69:O3:86:ARG:O	86:O3:201:OHX:N1	2.22	0.73
1:6:800:U:H2'	1:6:801:G:H8	1.53	0.73
36:5:2971:A:H3'	36:5:2971:A:N3	2.02	0.73
52:m6:15:LEU:HD11	52:m6:129:LEU:HD22	1.68	0.73
58:n2:35:LYS:NZ	58:n2:39:ASP:OD1	2.21	0.73
64:n8:73:LEU:HD11	64:n8:81:LEU:HD11	1.69	0.73
84:p2:16:UNK:O	84:p2:18:UNK:N	2.22	0.73
1:2:463:U:H2'	1:2:464:A:C8	2.23	0.73
39:L2:64:ARG:NH1	45:L8:37:GLY:O	2.21	0.73
1:6:69:G:N1	1:6:82:U:O2	2.16	0.73
36:5:3103:A:OP2	86:5:4154:OHX:N4	2.21	0.73
49:m3:3:ILE:HG12	64:n8:34:MET:HE2	1.69	0.73
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	1.71	0.73
56:N0:16:THR:OG1	56:N0:19:VAL:N	2.21	0.73
64:N8:47:LYS:HE3	64:N8:48:TYR:CZ	2.22	0.73
66:O0:36:GLN:HB3	66:O0:38:LYS:HG3	1.70	0.73
1:6:1057:U:O2'	1:6:1059:U:OP1	2.06	0.73
1:6:1211:A:H61	1:6:1452:U:H3	1.35	0.73
36:5:3139:A:OP1	40:l3:274:SER:OG	2.05	0.73
1:2:732:G:O2'	1:2:733:A:O4'	2.06	0.73
3:S1:171:ILE:HD13	3:S1:196:GLU:HG2	1.71	0.73
8:S6:12:SER:HB2	8:S6:124:LEU:HD12	1.71	0.73
36:1:2662:G:H2'	36:1:2663:G:H8	1.52	0.73
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.20	0.73
5:s3:57:ASP:N	5:s3:57:ASP:OD2	2.20	0.73
38:8:2:A:H3'	38:8:3:A:H8	1.53	0.73
41:l4:226:GLU:OE2	41:l4:246:ARG:NH2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:64:LEU:HD22	43:l6:65:ILE:H	1.53	0.73
46:l9:126:VAL:HG21	46:l9:161:LEU:HA	1.71	0.73
51:m5:65:ARG:HB3	51:m5:127:TYR:HD1	1.54	0.73
1:2:1147:A:H2'	1:2:1148:C:H6	1.53	0.73
17:C5:52:LYS:HB2	17:C5:53:PRO:HD3	1.70	0.73
36:1:529:A:H61	36:1:563:U:H3	1.36	0.73
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.70	0.73
62:N6:3:LYS:HG3	62:N6:8:VAL:HG13	1.70	0.73
1:6:871:G:O2'	29:d7:67:THR:O	2.04	0.73
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.23	0.73
6:S4:68:ARG:O	6:S4:70:VAL:N	2.20	0.73
36:1:1073:U:H1'	65:N9:50:THR:HG22	1.69	0.73
7:s5:92:ARG:NH2	7:s5:169:ASN:OD1	2.22	0.73
9:s7:122:HIS:HA	9:s7:125:ILE:HD12	1.71	0.73
36:5:1565:G:N1	36:5:1574:C:N3	2.36	0.73
68:o2:123:LYS:HA	68:o2:126:LEU:HB2	1.70	0.73
3:S1:222:LYS:HD3	3:S1:223:PHE:H	1.54	0.73
5:S3:92:GLN:NE2	5:S3:92:GLN:O	2.22	0.73
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.62	0.73
57:N1:84:TYR:HB2	65:N9:24:PRO:HB3	1.71	0.73
76:Q0:99:CYS:SG	87:Q0:500:ZN:ZN	1.76	0.73
1:6:1799:U:O2'	3:s1:152:ARG:NH1	2.22	0.73
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.70	0.73
36:5:953:G:H1'	36:5:1115:G:H5''	1.70	0.73
41:l4:3:ARG:HB3	41:l4:22:LEU:H	1.53	0.73
51:m5:114:ARG:HG2	51:m5:137:PRO:HG3	1.70	0.73
5:S3:175:VAL:HG13	5:S3:182:LEU:HB2	1.71	0.73
18:C6:41:PRO:HG2	18:C6:78:VAL:HG21	1.71	0.73
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.22	0.73
36:1:1454:A:OP2	86:1:4205:OHX:N6	2.22	0.73
40:L3:293:ASN:OD1	40:L3:293:ASN:N	2.21	0.73
1:6:435:C:H5''	25:d3:50:LYS:HE2	1.70	0.73
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.70	0.73
36:5:1605:A:O2'	36:5:1607:U:OP2	2.05	0.73
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.21	0.73
47:m0:46:PHE:CD1	47:m0:140:THR:HA	2.24	0.73
1:2:1542:G:N2	1:2:1568:C:H1'	2.04	0.72
13:C1:139:VAL:HG12	13:C1:140:VAL:H	1.54	0.72
41:L4:264:SER:C	41:L4:266:THR:H	1.96	0.72
42:L5:229:ASP:OD1	42:L5:229:ASP:N	2.21	0.72
1:6:1280:C:H2'	1:6:1281:G:C8	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1542:G:N2	1:6:1568:C:H1'	2.04	0.72
26:d4:55:VAL:HG12	26:d4:75:VAL:HG13	1.71	0.72
37:7:91:G:H2'	37:7:92:A:H8	1.53	0.72
1:2:1488:G:H3'	1:2:1515:A:H61	1.54	0.72
36:1:1674:G:OP2	86:1:3940:OHX:N2	2.21	0.72
40:L3:53:MET:HG2	40:L3:77:THR:HG22	1.70	0.72
4:s2:140:ARG:NH1	23:d1:10:GLU:OE1	2.21	0.72
41:l4:8:VAL:HB	41:l4:16:THR:HG21	1.70	0.72
46:l9:147:SER:HB2	46:l9:187:ILE:HD11	1.71	0.72
1:2:1774:G:OP1	77:Q1:7:LYS:NZ	2.23	0.72
17:C5:55:GLY:HA2	17:C5:58:LYS:HD3	1.70	0.72
36:1:314:U:O4	86:1:4147:OHX:N4	2.22	0.72
36:1:2310:U:OP1	86:1:4135:OHX:N2	2.22	0.72
36:1:3259:U:H5'	36:1:3259:U:H6	1.52	0.72
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.22	0.72
61:N5:74:LYS:NZ	61:N5:78:ASP:OD2	2.21	0.72
1:6:1698:G:O2'	1:6:1699:G:O5'	2.06	0.72
3:s1:93:GLY:O	3:s1:95:ASN:N	2.21	0.72
10:s8:38:ILE:HG12	10:s8:96:LEU:HD11	1.70	0.72
13:c1:77:SER:HB3	13:c1:85:VAL:HB	1.69	0.72
18:c6:37:THR:O	18:c6:45:ARG:NH1	2.22	0.72
36:5:937:G:H5''	64:n8:29:PRO:HG3	1.71	0.72
37:3:77:G:N2	37:3:102:A:OP2	2.23	0.72
49:M3:128:ARG:O	49:M3:130:GLY:N	2.18	0.72
1:6:57:G:OP1	26:d4:112:LYS:NZ	2.21	0.72
47:m0:76:MET:HE1	47:m0:138:VAL:HG11	1.71	0.72
71:o5:6:ALA:HA	71:o5:9:LEU:HD12	1.70	0.72
36:1:1231:A:OP2	86:1:4081:OHX:N6	2.23	0.72
36:1:2946:A:H5''	36:1:2947:G:H5'	1.72	0.72
65:N9:17:HIS:HA	65:N9:20:GLY:HA2	1.71	0.72
36:5:3107:U:H2'	36:5:3108:G:C8	2.24	0.72
1:2:1274:C:N4	35:SM:94:HIS:O	2.23	0.72
36:1:1569:U:H5''	36:1:1570:U:H6	1.55	0.72
36:1:2296:A:OP1	86:1:4144:OHX:N2	2.23	0.72
70:O4:80:ARG:HH11	70:O4:88:ARG:NH2	1.85	0.72
40:l3:233:TRP:CD1	40:l3:265:ALA:HB1	2.25	0.72
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.23	0.72
62:n6:100:HIS:ND1	62:n6:102:SER:OG	2.19	0.72
36:1:156:G:OP2	72:O6:27:SER:OG	2.05	0.72
44:L7:180:SER:HB2	44:L7:183:ASP:H	1.55	0.72
18:c6:82:ARG:HH22	18:c6:114:ARG:HG3	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:136:ASP:OD2	51:m5:138:GLN:HG2	1.90	0.72
1:2:258:C:O2	10:S8:178:ARG:NH2	2.22	0.72
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.23	0.72
16:C4:50:ALA:O	16:C4:52:ARG:N	2.22	0.72
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.19	0.72
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.22	0.72
79:Q3:59:CYS:O	79:Q3:60:CYS:HB3	1.89	0.72
2:s0:185:ARG:H	23:d1:45:ALA:H	1.37	0.72
70:o4:11:ASN:OD1	70:o4:18:ASN:ND2	2.23	0.72
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.23	0.72
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.22	0.72
20:C8:84:TRP:HA	20:C8:89:GLN:HE22	1.52	0.72
41:L4:145:ILE:HD13	41:L4:150:LEU:HG	1.71	0.72
45:L8:36:ILE:HG22	45:L8:37:GLY:H	1.53	0.72
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.54	0.72
1:6:755:A:H2'	1:6:756:A:H8	1.54	0.72
3:s1:141:ALA:HB1	3:s1:207:LEU:HD22	1.72	0.72
11:s9:157:ASP:OD1	11:s9:158:PHE:N	2.23	0.72
36:5:2620:G:O6	86:5:4238:OHX:N4	2.23	0.72
36:5:2689:A:H4'	36:5:2690:G:H5'	1.72	0.72
69:o3:85:PHE:O	86:o3:203:OHX:N2	2.23	0.72
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.71	0.72
47:M0:48:LEU:HA	47:M0:178:ARG:HH12	1.54	0.72
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.71	0.72
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.71	0.72
5:s3:170:THR:HG22	5:s3:187:LYS:HA	1.71	0.72
20:c8:73:MET:HG2	20:c8:101:LEU:HD11	1.72	0.72
53:m7:105:LYS:HB3	53:m7:107:LEU:HD13	1.72	0.72
1:2:452:A:OP2	86:2:2038:OHX:N5	2.22	0.71
7:S5:37:GLN:HB3	18:C6:53:LEU:HD22	1.72	0.71
21:C9:52:GLY:O	21:C9:54:PHE:N	2.20	0.71
36:1:745:C:H5''	54:M8:145:ASN:ND2	2.05	0.71
86:1:4080:OHX:N4	55:M9:14:VAL:O	2.23	0.71
26:d4:20:ARG:HD2	26:d4:74:LEU:HD22	1.72	0.71
36:5:495:G:O6	36:5:618:C:N4	2.20	0.71
36:5:3163:A:N6	36:5:3287:U:O4	2.20	0.71
86:5:4184:OHX:N2	72:o6:28:TYR:O	2.23	0.71
46:l9:91:ARG:NH2	46:l9:140:VAL:O	2.23	0.71
59:n3:15:LEU:HD13	59:n3:51:ALA:HB3	1.70	0.71
1:2:1280:C:H2'	1:2:1281:G:C8	2.25	0.71
34:SR:201:THR:HB	34:SR:242:SER:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:49:ASN:HD21	46:L9:52:LEU:HB2	1.55	0.71
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.72	0.71
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.08	0.71
63:N7:95:VAL:O	63:N7:100:THR:OG1	2.08	0.71
8:s6:206:ALA:O	8:s6:210:GLN:NE2	2.23	0.71
34:sR:177:MET:HE1	34:sR:193:ILE:HG13	1.72	0.71
37:7:112:G:OP2	86:7:223:OHX:N2	2.22	0.71
40:l3:166:ILE:O	40:l3:169:THR:HG22	1.89	0.71
1:2:275:C:O2	1:2:276:C:N4	2.24	0.71
1:2:320:U:H3'	1:2:321:C:H5''	1.72	0.71
71:O5:101:THR:HG22	71:O5:104:GLN:H	1.55	0.71
74:O8:13:GLU:HA	74:O8:16:ARG:HH21	1.55	0.71
1:6:1542:G:N2	1:6:1569:A:OP2	2.23	0.71
7:s5:200:ASN:HB3	7:s5:208:SER:HB2	1.70	0.71
25:d3:83:VAL:HG21	25:d3:122:PHE:HE2	1.54	0.71
4:S2:78:ASP:OD2	4:S2:79:GLU:N	2.18	0.71
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.72	0.71
73:O7:18:LEU:HA	73:O7:25:ARG:H	1.55	0.71
1:6:781:U:H6	1:6:782:U:H3	1.36	0.71
1:6:1799:U:H4'	1:6:1800:A:H2'	1.71	0.71
10:s8:8:ARG:NH2	10:s8:28:GLU:OE1	2.21	0.71
36:5:1502:C:OP1	86:5:3905:OHX:N4	2.23	0.71
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.73	0.71
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.22	0.71
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	1.73	0.71
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.73	0.71
36:1:1750:A:H4'	36:1:1751:G:H5'	1.71	0.71
1:6:1795:U:H5'	28:d6:79:ILE:HD11	1.72	0.71
40:l3:105:VAL:HG21	40:l3:148:LEU:HD13	1.73	0.71
5:S3:76:ARG:O	5:S3:76:ARG:NH1	2.24	0.71
25:D3:61:SER:HB2	25:D3:116:ASP:HB2	1.72	0.71
36:1:3329:U:H5''	40:L3:308:MET:HE3	1.72	0.71
41:L4:157:GLU:HG3	41:L4:251:THR:HG21	1.73	0.71
41:L4:200:THR:OG1	41:L4:201:GLN:N	2.22	0.71
1:6:301:A:OP2	86:6:2092:OHX:N1	2.23	0.71
36:5:3147:G:H4'	40:l3:102:LEU:O	1.91	0.71
47:m0:208:ASN:HA	47:m0:211:ARG:HD2	1.73	0.71
65:n9:23:LYS:HD2	65:n9:24:PRO:HD3	1.71	0.71
1:2:499:U:O2'	1:2:500:C:O5'	2.09	0.71
1:2:895:G:H1	1:2:917:U:H3	1.37	0.71
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:917:A:OP2	86:1:4140:OHX:N2	2.24	0.71
36:1:1064:A:N6	36:1:1096:U:H3	1.88	0.71
52:M6:27:LEU:HD22	52:M6:101:ARG:HG3	1.72	0.71
1:6:1015:U:OP1	86:6:2055:OHX:N3	2.24	0.71
1:6:1742:U:OP1	25:d3:39:LYS:NZ	2.23	0.71
36:5:2382:G:OP1	52:m6:85:ARG:NH1	2.23	0.71
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.72	0.71
36:1:1495:U:H5	36:1:1835:A:N1	1.89	0.71
42:L5:85:ARG:HH21	42:L5:254:LYS:H	1.37	0.71
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.25	0.71
36:5:23:A:OP1	86:5:3900:OHX:N4	2.23	0.71
86:5:3995:OHX:N6	44:l7:217:PRO:O	2.23	0.71
41:l4:44:LYS:HB3	41:l4:47:ARG:HH11	1.54	0.71
45:l8:100:GLU:OE2	45:l8:108:ARG:NH1	2.23	0.71
60:n4:35:LYS:HE2	60:n4:51:TRP:CZ2	2.26	0.71
78:q2:71:ARG:HH21	78:q2:80:ARG:HH11	1.39	0.71
82:m2:120:UNK:O	82:m2:122:UNK:N	2.23	0.71
17:C5:130:ARG:NH1	35:SM:71:ASN:OD1	2.24	0.71
22:D0:57:ARG:HD2	22:D0:89:ARG:HD3	1.73	0.71
36:1:2554:A:H5'	36:1:2554:A:C8	2.26	0.71
58:N2:59:ASP:O	58:N2:61:THR:N	2.20	0.71
61:N5:56:ARG:O	61:N5:61:LYS:HD2	1.91	0.71
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.73	0.71
36:5:685:G:P	49:m3:35:ARG:HH12	2.13	0.71
36:5:1152:G:H22	36:5:1200:A:H61	1.38	0.71
36:5:1213:G:OP1	56:n0:137:ARG:NH1	2.23	0.71
36:5:3097:C:OP1	40:l3:325:LYS:NZ	2.18	0.71
5:S3:66:ILE:HD11	5:S3:88:ALA:HB2	1.71	0.71
15:C3:47:PRO:HA	15:C3:50:ILE:HD12	1.73	0.71
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.23	0.71
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.72	0.71
36:5:1017:C:N4	36:5:2671:A:OP2	2.23	0.71
41:l4:192:GLY:O	41:l4:195:ARG:N	2.23	0.71
12:C0:16:PHE:HD2	12:C0:76:LEU:HD23	1.55	0.70
26:D4:113:ASN:HA	26:D4:116:LYS:HD3	1.73	0.70
34:SR:80:ALA:HB3	34:SR:92:TRP:HB2	1.71	0.70
34:SR:258:THR:O	34:SR:275:ARG:NH1	2.23	0.70
36:1:567:G:O6	86:1:3997:OHX:N1	2.24	0.70
69:O3:48:ARG:HG2	69:O3:48:ARG:HH11	1.54	0.70
8:s6:84:TYR:OH	8:s6:91:GLU:O	2.07	0.70
11:s9:42:ILE:O	11:s9:45:ILE:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:82:LYS:O	33:e1:84:VAL:N	2.22	0.70
59:n3:2:SER:HA	59:n3:56:ASP:HA	1.71	0.70
1:2:542:A:H2'	1:2:543:C:H5'	1.72	0.70
36:1:3294:A:H2'	36:1:3295:A:O4'	1.90	0.70
42:L5:279:LYS:HD3	42:L5:282:ARG:HB2	1.72	0.70
48:M1:12:LEU:HD12	48:M1:131:MET:HE3	1.73	0.70
1:6:1600:A:H4'	1:6:1601:G:OP1	1.91	0.70
29:d7:67:THR:OG1	29:d7:70:LYS:O	2.09	0.70
36:5:3334:U:OP2	86:5:4228:OHX:N6	2.25	0.70
49:m3:46:ILE:HG23	49:m3:49:ARG:HB2	1.72	0.70
53:m7:21:TYR:H	53:m7:145:HIS:CE1	2.08	0.70
60:n4:63:ILE:O	60:n4:65:GLU:N	2.23	0.70
67:o1:44:MET:O	67:o1:46:THR:N	2.23	0.70
76:q0:118:THR:HG23	76:q0:120:GLN:H	1.56	0.70
2:S0:13:ASP:OD1	2:S0:179:ARG:NH2	2.19	0.70
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.72	0.70
34:SR:161:LYS:HE3	34:SR:164:ASP:HB2	1.73	0.70
36:1:1740:U:H1'	36:1:1741:A:H2	1.56	0.70
49:M3:187:ALA:HA	49:M3:190:LYS:HB3	1.72	0.70
29:d7:6:ASP:OD1	29:d7:9:HIS:ND1	2.23	0.70
44:l7:228:SER:HA	44:l7:232:ARG:HH21	1.57	0.70
63:n7:124:ALA:O	63:n7:126:LYS:N	2.24	0.70
12:C0:16:PHE:HZ	12:C0:77:ARG:HH21	1.39	0.70
36:1:1064:A:H4'	36:1:1065:A:O5'	1.91	0.70
45:L8:36:ILE:O	45:L8:38:GLN:N	2.23	0.70
1:6:815:G:H5'	1:6:815:G:H8	1.55	0.70
31:d9:19:ARG:HD3	31:d9:32:ARG:HD2	1.74	0.70
36:5:442:G:N2	36:5:491:C:O2'	2.24	0.70
42:l5:270:LYS:HE2	42:l5:273:ARG:HA	1.73	0.70
45:l8:41:GLN:HG3	45:l8:44:ARG:HH12	1.57	0.70
1:2:565:C:O2	86:D3:202:OHX:N5	2.24	0.70
8:S6:52:ILE:HA	8:S6:111:LEU:HD23	1.73	0.70
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.74	0.70
36:1:3047:U:O2'	40:L3:53:MET:HE1	1.92	0.70
24:d2:30:SER:HB3	24:d2:59:GLY:HA3	1.73	0.70
24:d2:60:LYS:NZ	29:d7:24:LEU:O	2.23	0.70
36:5:314:U:H2'	36:5:315:C:C6	2.27	0.70
36:5:990:U:O4	86:5:4179:OHX:N6	2.25	0.70
41:l4:64:SER:OG	41:l4:65:TRP:N	2.23	0.70
1:2:741:C:O2	9:S7:107:ARG:NH2	2.21	0.70
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	1.73	0.70
26:D4:112:LYS:HZ3	26:D4:112:LYS:HB3	1.56	0.70
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.25	0.70
36:1:1211:U:H2'	36:1:1212:A:C8	2.26	0.70
36:1:1596:C:H2'	36:1:1597:C:C6	2.26	0.70
1:6:1182:U:H2'	1:6:1184:A:OP2	1.91	0.70
12:c0:56:LYS:HB3	12:c0:67:THR:HG23	1.74	0.70
18:c6:6:SER:HB2	18:c6:23:LYS:HB3	1.73	0.70
36:5:510:G:O6	86:5:4017:OHX:N2	2.24	0.70
36:5:2838:A:OP1	47:m0:154:ARG:NH1	2.19	0.70
41:l4:287:THR:O	41:l4:291:ASN:ND2	2.22	0.70
1:2:480:G:H22	1:2:509:G:H1'	1.57	0.70
36:1:1772:U:H5''	36:1:1773:C:H5'	1.74	0.70
54:M8:65:SER:HA	54:M8:93:ILE:HD13	1.74	0.70
10:s8:21:PHE:HD1	10:s8:22:ARG:HG2	1.56	0.70
40:l3:347:SER:O	40:l3:349:LYS:N	2.25	0.70
49:m3:3:ILE:HD13	64:n8:45:MET:HE3	1.74	0.70
54:m8:122:ILE:HG23	54:m8:126:GLN:HB2	1.72	0.70
1:2:645:C:H42	1:2:689:G:H1	1.38	0.70
13:C1:69:LYS:H	13:C1:127:GLN:HB3	1.55	0.70
36:1:831:G:O6	86:1:3881:OHX:N4	2.24	0.70
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.25	0.70
36:1:3060:C:OP1	86:1:4034:OHX:N4	2.24	0.70
1:6:218:A:H2'	1:6:219:A:H5''	1.72	0.70
19:c7:33:ARG:NH2	34:sR:109:ASP:OD1	2.25	0.70
36:5:912:G:OP2	39:l2:9:ARG:NH1	2.25	0.70
39:l2:143:GLU:O	39:l2:145:LYS:N	2.24	0.70
49:m3:46:ILE:HG12	49:m3:49:ARG:NH1	2.07	0.70
78:q2:48:SER:O	86:q2:502:OHX:N3	2.25	0.70
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.25	0.70
34:SR:299:GLN:NE2	34:SR:315:VAL:O	2.25	0.70
36:1:1646:G:O2'	36:1:1808:G:N2	2.22	0.70
49:M3:79:GLU:OE1	49:M3:101:ARG:NH2	2.25	0.70
49:M3:165:SER:O	49:M3:167:PHE:N	2.24	0.70
1:6:753:A:H62	6:s4:187:ARG:HH22	1.38	0.70
36:5:2975:U:OP1	86:5:4083:OHX:N3	2.25	0.70
41:l4:207:VAL:HB	41:l4:227:THR:HG22	1.73	0.70
74:o8:46:ARG:NH1	74:o8:47:GLY:O	2.24	0.70
35:SM:97:THR:HG22	35:SM:99:LYS:HG3	1.72	0.70
36:1:1569:U:H5'	36:1:1570:U:H5''	1.72	0.70
55:m9:166:ASN:HD22	55:m9:167:ARG:HG2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:56:LYS:NZ	2:S0:159:ALA:O	2.24	0.69
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.22	0.69
36:1:2768:U:H2'	36:1:2769:A:H8	1.57	0.69
48:M1:16:LYS:HB2	48:M1:72:ARG:HG2	1.73	0.69
73:O7:88:ALA:O	86:O7:104:OHX:N1	2.24	0.69
1:6:949:C:OP1	66:o0:7:GLN:NE2	2.25	0.69
26:d4:122:GLY:O	26:d4:125:LEU:N	2.25	0.69
80:e0:48:THR:OG1	80:e0:49:LEU:N	2.24	0.69
66:o0:10:ILE:HD11	66:o0:104:LEU:HD11	1.74	0.69
72:o6:45:ARG:NH2	72:o6:54:GLU:OE1	2.24	0.69
13:C1:71:LEU:HB3	13:C1:88:ARG:HD3	1.74	0.69
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	1.74	0.69
36:1:368:G:OP1	86:1:3876:OHX:N1	2.25	0.69
36:1:3200:G:O6	86:1:4124:OHX:N4	2.25	0.69
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.22	0.69
60:N4:6:ASP:OD2	60:N4:8:PHE:N	2.20	0.69
1:6:886:U:OP1	3:s1:214:LYS:NZ	2.25	0.69
1:6:888:U:H1'	16:c4:126:THR:HG21	1.72	0.69
1:6:1370:U:O4	86:6:2143:OHX:N6	2.25	0.69
9:s7:126:LEU:HB2	9:s7:173:TYR:HE2	1.57	0.69
12:c0:10:LYS:HZ1	12:c0:36:ASP:HB3	1.57	0.69
17:c5:65:LEU:O	86:c5:201:OHX:N2	2.25	0.69
36:5:3023:U:OP2	36:5:3031:G:N1	2.23	0.69
40:l3:139:GLN:O	40:l3:141:GLY:N	2.25	0.69
6:S4:122:LYS:HD2	6:S4:164:LEU:HD21	1.75	0.69
36:1:1390:A:N6	36:1:1418:A:O2'	2.26	0.69
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.25	0.69
1:6:687:G:H2'	1:6:688:G:H8	1.57	0.69
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.74	0.69
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.26	0.69
79:q3:15:GLY:O	79:q3:23:ARG:NH1	2.26	0.69
1:2:1386:G:OP2	19:C7:44:LYS:NZ	2.25	0.69
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.75	0.69
36:1:600:G:N7	86:1:4092:OHX:N1	2.39	0.69
36:1:975:C:H2'	36:1:976:U:H6	1.57	0.69
36:1:3035:A:OP2	86:1:4070:OHX:N4	2.25	0.69
51:M5:16:SER:O	51:M5:20:ARG:HG2	1.93	0.69
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.40	0.69
36:5:1597:C:H2'	36:5:1598:G:H8	1.58	0.69
36:5:1877:U:H5''	36:5:1878:G:H5'	1.72	0.69
44:l7:219:LYS:O	44:l7:228:SER:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:74:ARG:HD3	70:o4:85:VAL:HG21	1.73	0.69
70:o4:84:CYS:O	70:o4:88:ARG:HB2	1.92	0.69
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.74	0.69
28:D6:89:ARG:HH11	28:D6:92:ARG:HH21	1.40	0.69
33:E1:126:CYS:O	33:E1:128:ALA:N	2.25	0.69
36:1:230:U:H2'	36:1:231:G:O4'	1.92	0.69
36:1:612:U:H2'	36:1:613:G:H8	1.56	0.69
36:1:2924:U:O4	86:1:4012:OHX:N1	2.25	0.69
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.75	0.69
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.74	0.69
11:s9:102:GLU:CD	11:s9:102:GLU:H	2.00	0.69
36:5:561:C:H2'	36:5:562:C:H6	1.57	0.69
49:m3:48:PRO:HD2	71:o5:115:LYS:HD2	1.75	0.69
72:o6:10:GLY:H	72:o6:13:LYS:HG2	1.58	0.69
15:C3:84:ILE:HG22	15:C3:135:LEU:HD21	1.74	0.69
1:6:151:G:H21	8:s6:13:GLN:NE2	1.91	0.69
1:6:1173:C:OP1	20:c8:132:ARG:NH2	2.20	0.69
1:6:1588:G:H1	1:6:1608:U:H3	1.40	0.69
22:d0:26:LEU:HB2	22:d0:89:ARG:HB2	1.73	0.69
61:n5:103:TYR:HB3	61:n5:135:ILE:HD11	1.73	0.69
68:o2:22:SER:HA	68:o2:28:VAL:HB	1.75	0.69
1:2:81:G:OP2	86:2:2140:OHX:N5	2.26	0.69
41:L4:3:ARG:HH11	41:L4:22:LEU:HD22	1.57	0.69
18:c6:93:HIS:HA	18:c6:97:VAL:HG23	1.75	0.69
34:sR:17:ASN:O	34:sR:308:ASN:ND2	2.26	0.69
34:sR:48:THR:HG22	34:sR:55:GLY:HA2	1.75	0.69
36:5:2762:A:OP2	86:5:3982:OHX:N5	2.25	0.69
36:5:2802:A:C8	78:q2:56:PRO:HB3	2.27	0.69
44:l7:154:GLY:N	44:l7:161:VAL:O	2.23	0.69
1:2:641:G:H1	1:2:693:U:H3	1.39	0.69
1:2:1277:G:H2'	1:2:1278:G:O4'	1.92	0.69
1:2:1533:C:H4'	1:2:1539:G:N1	2.06	0.69
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.25	0.69
7:S5:123:VAL:HG12	7:S5:124:LEU:HD12	1.73	0.69
36:1:367:A:OP1	86:1:3876:OHX:N2	2.26	0.69
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.24	0.69
36:1:1941:C:O2'	36:1:3344:A:N6	2.26	0.69
37:3:19:C:H2'	37:3:20:A:H8	1.57	0.69
61:N5:49:LYS:O	61:N5:51:VAL:N	2.25	0.69
62:N6:57:LEU:HD23	62:N6:67:GLU:HB3	1.75	0.69
1:6:1435:G:O6	12:c0:64:TYR:OH	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:73:THR:C	7:s5:75:GLY:H	2.01	0.69
21:c9:53:TRP:HH2	21:c9:100:ILE:HD12	1.58	0.69
36:5:1170:A:OP2	86:5:3995:OHX:N4	2.26	0.69
40:l3:10:ARG:NH1	40:l3:11:HIS:O	2.24	0.69
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.25	0.69
43:l6:31:ARG:NH2	43:l6:81:ALA:O	2.25	0.69
52:m6:22:VAL:HG11	52:m6:120:VAL:HG11	1.75	0.69
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.74	0.69
21:C9:73:VAL:HG11	21:C9:102:ARG:HB2	1.73	0.69
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.26	0.69
36:1:3358:U:H2'	36:1:3359:A:O4'	1.93	0.69
5:s3:53:THR:HG22	5:s3:91:VAL:HG11	1.74	0.69
16:c4:111:ARG:NH1	28:d6:57:SER:O	2.26	0.69
26:d4:87:PRO:HG2	26:d4:90:ARG:HG3	1.74	0.69
36:5:438:A:N1	36:5:621:A:N6	2.38	0.69
36:5:2818:U:H5'	36:5:2818:U:H6	1.56	0.69
71:o5:64:GLU:OE1	71:o5:68:GLN:NE2	2.23	0.69
1:2:734:A:H5''	1:2:735:C:OP1	1.93	0.69
7:S5:71:ALA:HB1	7:S5:91:GLU:HG3	1.76	0.69
45:L8:89:GLU:HA	45:L8:92:LYS:HE2	1.74	0.69
59:N3:83:LYS:HE2	59:N3:84:SER:N	2.08	0.69
1:6:1114:G:O2'	1:6:1130:G:O6	2.10	0.69
1:6:1564:U:H2'	1:6:1565:C:C6	2.28	0.69
1:6:1783:C:H2'	1:6:1784:C:C6	2.27	0.69
2:s0:183:ARG:NH2	2:s0:191:ARG:O	2.26	0.69
12:c0:50:THR:HG22	12:c0:55:VAL:HG22	1.75	0.69
36:5:1615:C:H2'	36:5:1616:U:H6	1.56	0.69
40:l3:187:SER:HB2	40:l3:188:ILE:HD12	1.75	0.69
1:2:463:U:H2'	1:2:464:A:H8	1.56	0.68
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.26	0.68
10:S8:138:ASN:OD1	10:S8:138:ASN:N	2.23	0.68
12:C0:53:GLY:O	12:C0:55:VAL:N	2.26	0.68
24:D2:7:LEU:HD22	24:D2:11:LEU:HG	1.74	0.68
1:6:123:G:H21	6:s4:146:THR:HG21	1.56	0.68
15:c3:54:LEU:HB3	15:c3:60:VAL:HG11	1.75	0.68
36:5:2234:G:O6	86:5:3955:OHX:N1	2.26	0.68
52:m6:54:TYR:CD2	52:m6:145:VAL:HG11	2.28	0.68
66:o0:42:ILE:HG12	66:o0:67:VAL:HG22	1.74	0.68
1:2:705:U:H2'	1:2:706:A:C8	2.27	0.68
36:1:1752:A:OP2	86:1:4042:OHX:N5	2.26	0.68
41:L4:294:GLU:OE1	41:L4:294:GLU:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:67:ILE:HG22	53:M7:80:LYS:HD2	1.74	0.68
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.08	0.68
1:6:976:G:O6	86:6:2079:OHX:N6	2.26	0.68
36:5:288:C:O2'	51:m5:95:GLN:OE1	2.08	0.68
36:5:1103:A:H3'	36:5:1104:G:H5'	1.75	0.68
36:5:1632:A:OP1	63:n7:69:LYS:NZ	2.24	0.68
36:5:3275:U:C2	69:o3:60:ARG:HD2	2.28	0.68
62:n6:35:LEU:HD11	62:n6:45:ILE:HG22	1.74	0.68
76:q0:99:CYS:SG	87:q0:3602:ZN:ZN	1.79	0.68
1:2:526:A:OP2	26:D4:93:ARG:NH2	2.26	0.68
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.26	0.68
40:L3:92:TYR:HB2	40:L3:157:VAL:HG13	1.73	0.68
47:M0:146:ASP:N	47:M0:146:ASP:OD1	2.27	0.68
34:sR:42:LEU:HB2	34:sR:61:PHE:HB2	1.76	0.68
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.19	0.68
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.26	0.68
70:o4:82:ALA:O	70:o4:85:VAL:N	2.21	0.68
86:2:2031:OHX:N4	86:2:2146:OHX:N2	2.41	0.68
18:C6:97:VAL:HG12	18:C6:98:ASP:H	1.58	0.68
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.26	0.68
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.27	0.68
42:L5:4:GLN:N	42:L5:4:GLN:OE1	2.26	0.68
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	1.94	0.68
78:Q2:46:LYS:O	86:Q2:503:OHX:N6	2.26	0.68
1:6:151:G:H21	8:s6:13:GLN:HE22	1.40	0.68
36:5:2746:A:H2	42:l5:146:LEU:HB3	1.58	0.68
36:5:3122:A:N1	46:l9:70:THR:HG21	2.08	0.68
36:5:3194:C:N3	36:5:3197:G:N2	2.41	0.68
38:8:13:A:H1'	53:m7:120:ASN:HD22	1.59	0.68
60:n4:39:LEU:HD12	60:n4:44:LYS:HG3	1.76	0.68
81:p0:91:GLU:HG2	81:p0:92:PRO:HD2	1.76	0.68
81:p0:190:VAL:HB	81:p0:197:PHE:HB2	1.75	0.68
1:2:356:G:OP2	86:2:2036:OHX:N6	2.27	0.68
1:2:1082:C:H6	23:D1:62:ARG:HH21	1.42	0.68
14:C2:55:GLY:N	35:SM:172:VAL:O	2.26	0.68
36:1:3074:G:OP1	86:1:4034:OHX:N1	2.26	0.68
45:L8:130:TYR:HD1	45:L8:202:GLU:HB3	1.56	0.68
52:M6:88:VAL:HG11	52:M6:99:LEU:HD21	1.76	0.68
59:N3:81:GLN:O	59:N3:98:ASN:ND2	2.26	0.68
1:6:27:U:H2'	1:6:28:A:C8	2.29	0.68
1:6:1186:U:O2	33:e1:78:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:95:GLU:OE1	9:s7:97:ARG:NH1	2.27	0.68
19:c7:105:GLN:O	19:c7:109:LEU:N	2.26	0.68
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	1.74	0.68
36:5:2340:U:OP1	40:l3:236:LYS:HD2	1.93	0.68
39:l2:14:SER:OG	39:l2:15:ILE:N	2.20	0.68
9:S7:96:ARG:NH1	9:S7:128:ASP:OD2	2.26	0.68
25:D3:64:PRO:O	86:D3:202:OHX:N1	2.26	0.68
36:1:266:A:H2'	72:O6:30:LYS:HE3	1.75	0.68
36:1:595:G:H1	36:1:609:G:H5''	1.58	0.68
36:1:612:U:H2'	36:1:613:G:C8	2.29	0.68
1:6:905:A:H4'	16:c4:52:ARG:HH21	1.58	0.68
36:5:58:G:OP1	51:m5:157:LYS:NZ	2.26	0.68
36:5:1662:G:H1	36:5:1787:A:H61	1.40	0.68
42:l5:270:LYS:HG3	42:l5:273:ARG:HB2	1.75	0.68
65:n9:18:ARG:O	86:n9:103:OHX:N4	2.26	0.68
67:o1:43:HIS:O	67:o1:44:MET:HE2	1.94	0.68
1:2:142:G:H22	1:2:173:A:H2	1.39	0.68
1:2:702:G:O6	1:2:737:A:N6	2.26	0.68
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.75	0.68
36:1:2898:G:H5''	36:1:2899:C:H5'	1.76	0.68
41:L4:89:ALA:O	41:L4:91:GLY:N	2.27	0.68
45:L8:101:THR:HG23	45:L8:104:GLU:H	1.57	0.68
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.26	0.68
1:6:8:U:O2'	86:6:2071:OHX:N2	2.27	0.68
1:6:453:U:O4	86:6:2061:OHX:N4	2.27	0.68
1:6:1535:U:H1'	1:6:1536:G:C2	2.29	0.68
36:5:171:G:N2	36:5:248:U:O2	2.26	0.68
36:5:681:U:O4	41:l4:118:LYS:NZ	2.27	0.68
36:5:1541:G:OP2	86:5:4088:OHX:N4	2.26	0.68
36:5:1578:C:H3'	36:5:1579:C:H6	1.59	0.68
36:5:2718:U:H2'	36:5:2719:U:C6	2.29	0.68
62:n6:27:ARG:HH12	62:n6:76:LEU:HA	1.59	0.68
1:2:1795:U:O2	28:D6:10:ARG:HD2	1.93	0.68
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.25	0.68
49:M3:175:SER:O	49:M3:178:LYS:N	2.26	0.68
1:6:1767:G:OP1	1:6:1770:U:H4'	1.93	0.68
8:s6:57:ASP:HA	8:s6:106:LEU:HA	1.76	0.68
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.27	0.68
36:5:155:G:H5''	36:5:156:G:C8	2.28	0.68
36:5:655:C:H2'	36:5:656:A:H8	1.59	0.68
36:5:1362:G:H21	44:l7:158:LYS:HE2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:124:G:OP2	86:8:222:OHX:N2	2.27	0.68
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.75	0.68
34:SR:169:ILE:HG13	34:SR:181:TRP:HB2	1.76	0.68
36:1:1819:U:O4	86:1:4036:OHX:N4	2.26	0.68
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.75	0.68
68:O2:103:LYS:O	68:O2:106:VAL:HG12	1.93	0.68
1:6:1688:U:O2	1:6:1713:G:N2	2.24	0.68
7:s5:166:ARG:NH1	7:s5:170:GLN:OE1	2.27	0.68
12:c0:31:LYS:H	12:c0:38:LYS:HA	1.58	0.68
16:c4:31:THR:OG1	16:c4:32:ASP:N	2.23	0.68
18:c6:31:VAL:HG13	18:c6:67:VAL:HB	1.76	0.68
36:5:783:A:OP2	86:5:4188:OHX:N6	2.27	0.68
71:o5:64:GLU:HA	71:o5:67:ARG:HB2	1.76	0.68
78:q2:12:CYS:SG	78:q2:74:CYS:CB	2.82	0.68
1:2:68:A:OP1	8:S6:160:ARG:NH1	2.27	0.68
1:2:702:G:N7	86:2:2129:OHX:N2	2.42	0.68
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.76	0.68
25:D3:91:GLY:O	25:D3:93:LEU:N	2.27	0.68
37:3:71:G:H2'	37:3:72:A:C8	2.29	0.68
1:6:1565:C:OP1	20:c8:41:ARG:HD3	1.94	0.68
16:c4:131:GLY:O	16:c4:133:ARG:N	2.27	0.68
36:5:347:G:N7	73:o7:55:ARG:NH2	2.42	0.68
36:5:1375:G:O6	64:n8:10:LYS:HE3	1.94	0.68
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	1.76	0.68
45:l8:239:GLY:O	45:l8:241:LYS:N	2.26	0.68
1:2:973:A:H2'	1:2:974:A:H8	1.58	0.67
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.76	0.67
36:1:272:G:OP2	86:1:4025:OHX:N3	2.28	0.67
36:1:3057:U:H5'	36:1:3086:A:H61	1.57	0.67
46:L9:85:GLY:HA3	46:L9:187:ILE:HD12	1.75	0.67
47:M0:189:GLU:HB3	47:M0:200:LEU:HB3	1.75	0.67
36:5:1661:G:H2'	36:5:1662:G:C8	2.29	0.67
63:n7:128:GLN:O	63:n7:130:PHE:N	2.27	0.67
2:S0:147:THR:HG21	2:S0:159:ALA:HB1	1.75	0.67
31:D9:5:ASN:OD1	31:D9:7:TRP:NE1	2.28	0.67
36:1:541:U:O4	86:1:4189:OHX:N2	2.26	0.67
55:M9:15:VAL:HG11	55:M9:52:LYS:HG3	1.75	0.67
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.30	0.67
1:6:1017:U:H2'	1:6:1018:U:C6	2.29	0.67
36:5:685:G:N2	36:5:695:C:O2	2.18	0.67
36:5:3255:U:H2'	36:5:3256:G:C8	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:94:ALA:O	68:o2:120:THR:HG23	1.93	0.67
1:2:1230:A:H2'	1:2:1258:U:C5	2.29	0.67
8:S6:57:ASP:HA	8:S6:107:ALA:H	1.59	0.67
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.76	0.67
36:1:561:C:H2'	36:1:562:C:C6	2.29	0.67
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.27	0.67
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.57	0.67
1:6:1699:G:N1	1:6:1701:A:H5''	2.09	0.67
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.60	0.67
11:s9:41:GLU:OE1	11:s9:126:ARG:NH2	2.28	0.67
36:5:1192:C:N4	36:5:1301:A:O3'	2.27	0.67
36:5:1464:G:O2'	86:5:3905:OHX:N5	2.27	0.67
47:m0:87:LEU:HD23	47:m0:138:VAL:HG22	1.76	0.67
56:n0:1:MET:N	56:n0:32:SER:OG	2.23	0.67
63:n7:14:VAL:HG13	70:o4:86:LYS:HG2	1.76	0.67
2:S0:32:HIS:O	2:S0:34:GLU:N	2.26	0.67
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.76	0.67
36:1:544:C:H1'	36:1:548:G:H22	1.58	0.67
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.28	0.67
36:1:1155:C:OP1	44:L7:94:LYS:NZ	2.27	0.67
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.27	0.67
47:M0:43:VAL:HG21	47:M0:197:VAL:HB	1.77	0.67
71:O5:85:THR:HB	71:O5:88:LEU:HD12	1.77	0.67
1:6:327:U:H1'	13:c1:10:GLU:HG2	1.74	0.67
38:8:92:A:H2'	38:8:93:U:O4'	1.94	0.67
1:2:656:G:O2'	1:2:657:U:O4'	2.12	0.67
36:1:1724:U:H4'	36:1:1725:C:OP1	1.93	0.67
42:L5:129:TYR:OH	42:L5:175:HIS:O	2.11	0.67
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.76	0.67
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.28	0.67
59:N3:120:LYS:H	59:N3:137:VAL:HG23	1.60	0.67
1:6:765:G:N7	11:s9:149:ARG:NE	2.42	0.67
1:6:1305:U:OP2	1:6:1306:C:N4	2.26	0.67
1:6:1579:U:OP1	86:6:2182:OHX:N4	2.27	0.67
36:5:283:G:OP2	36:5:285:A:O2'	2.12	0.67
62:n6:112:ASP:H	62:n6:115:ARG:HB2	1.59	0.67
1:2:560:U:H2'	1:2:561:G:H8	1.59	0.67
36:1:651:G:O2'	36:1:1435:A:OP1	2.11	0.67
36:1:1230:G:H1	36:1:1279:C:H42	1.42	0.67
37:3:27:A:P	42:L5:57:ASN:HD22	2.18	0.67
39:L2:6:ARG:NH2	39:L2:199:THR:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.75	0.67
46:L9:49:ASN:ND2	46:L9:52:LEU:HB2	2.08	0.67
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.29	0.67
68:O2:22:SER:HA	68:O2:28:VAL:HG12	1.76	0.67
1:6:196:G:N7	10:s8:141:ARG:NH2	2.43	0.67
1:6:1003:A:O2'	1:6:1005:A:N6	2.18	0.67
1:6:1672:G:H2'	1:6:1673:G:C8	2.29	0.67
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.75	0.67
36:5:1158:A:OP2	44:l7:90:LYS:NZ	2.28	0.67
51:m5:8:GLU:HG3	51:m5:50:ARG:HH12	1.59	0.67
70:o4:74:ARG:HG2	70:o4:75:ALA:N	2.10	0.67
36:1:75:G:H5''	49:M3:58:VAL:HG22	1.76	0.67
36:1:371:G:O6	86:1:4177:OHX:N4	2.28	0.67
36:1:1642:A:N3	36:1:1822:C:O2'	2.24	0.67
36:1:2623:G:H2'	36:1:2624:G:H8	1.60	0.67
42:L5:43:LYS:O	42:L5:46:THR:OG1	2.11	0.67
58:N2:94:ARG:HH21	58:N2:96:VAL:HG22	1.60	0.67
1:6:151:G:H1	1:6:163:G:H1	1.43	0.67
4:s2:116:LYS:NZ	4:s2:117:THR:O	2.26	0.67
18:c6:66:ARG:HH21	18:c6:68:ARG:HG2	1.59	0.67
1:2:57:G:OP1	26:D4:112:LYS:HE3	1.94	0.67
1:2:930:A:OP1	28:D6:32:LYS:NZ	2.25	0.67
6:S4:247:SER:N	6:S4:250:GLU:OE1	2.21	0.67
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	1.76	0.67
86:1:3951:OHX:N6	44:L7:217:PRO:O	2.28	0.67
37:3:75:G:O2'	37:3:104:A:N6	2.26	0.67
50:M4:39:ILE:HB	50:M4:43:LYS:HB2	1.76	0.67
36:5:784:A:O2'	36:5:785:G:OP2	2.12	0.67
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.28	0.67
6:S4:95:THR:O	6:S4:97:GLU:N	2.27	0.67
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	1.76	0.67
36:1:3373:U:OP2	67:O1:102:LYS:HE2	1.95	0.67
39:L2:29:LEU:HB2	39:L2:123:ARG:HA	1.77	0.67
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.76	0.67
52:M6:8:VAL:HG12	52:M6:117:ARG:HA	1.77	0.67
59:N3:108:GLU:HA	59:N3:128:ARG:HG3	1.75	0.67
1:6:755:A:H2'	1:6:756:A:C8	2.29	0.67
1:6:830:U:H2'	1:6:831:U:H5'	1.76	0.67
1:6:833:U:OP2	86:6:2202:OHX:N5	2.28	0.67
1:6:1316:G:OP1	19:c7:7:LYS:N	2.28	0.67
14:c2:81:ASP:O	14:c2:83:GLU:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:53:ILE:HD13	29:d7:24:LEU:HD11	1.77	0.67
36:5:394:G:O2'	36:5:396:A:N7	2.26	0.67
53:m7:155:GLU:N	53:m7:155:GLU:OE2	2.28	0.67
64:n8:6:THR:HB	64:n8:8:THR:HG23	1.77	0.67
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.60	0.67
78:q2:12:CYS:SG	78:q2:17:CYS:HB3	2.33	0.67
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.75	0.67
29:D7:62:ILE:HG13	29:D7:63:LEU:H	1.60	0.67
36:1:656:A:H2'	36:1:657:A:C8	2.30	0.67
36:1:729:C:H2'	36:1:730:C:H6	1.60	0.67
37:3:43:U:H4'	48:M1:140:ARG:O	1.94	0.67
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.30	0.67
1:6:158:U:O2'	1:6:160:C:OP2	2.13	0.67
36:5:595:G:OP2	44:l7:30:ARG:NH1	2.28	0.67
47:m0:68:ALA:HB2	47:m0:158:LYS:HG3	1.76	0.67
15:C3:27:LYS:HE3	15:C3:27:LYS:H	1.59	0.66
20:C8:136:GLN:N	20:C8:136:GLN:OE1	2.27	0.66
35:SM:34:LYS:HA	48:M1:61:ARG:HH12	1.60	0.66
36:1:2683:U:H2'	36:1:2684:C:C6	2.30	0.66
36:1:3310:A:OP1	53:M7:74:LYS:NZ	2.27	0.66
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.60	0.66
64:N8:131:SER:HB3	64:N8:134:ALA:HB2	1.77	0.66
67:O1:55:LEU:HB2	67:O1:95:PRO:HD3	1.76	0.66
1:6:1738:U:O4	86:6:2062:OHX:N5	2.28	0.66
36:5:3194:C:H2'	36:5:3195:U:H3'	1.75	0.66
1:2:1160:A:H2'	1:2:1161:C:C6	2.30	0.66
7:S5:74:ALA:O	18:C6:122:ARG:NH2	2.28	0.66
13:C1:75:VAL:HG12	13:C1:120:GLY:H	1.60	0.66
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.60	0.66
36:1:561:C:H2'	36:1:562:C:H6	1.60	0.66
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.26	0.66
36:1:1523:U:HO2'	36:1:1607:U:HO2'	1.37	0.66
36:1:2768:U:H2'	36:1:2769:A:C8	2.31	0.66
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.27	0.66
37:3:26:C:H5'	42:L5:56:THR:HB	1.76	0.66
39:L2:28:LYS:HD3	39:L2:123:ARG:HD3	1.75	0.66
51:M5:70:ASN:HB3	51:M5:92:LEU:O	1.95	0.66
57:N1:78:LYS:HE3	57:N1:87:LYS:HD2	1.76	0.66
1:6:1316:G:HO2'	1:6:1401:A:HO2'	1.43	0.66
19:c7:5:ARG:HB2	19:c7:10:LYS:HE2	1.76	0.66
27:d5:60:VAL:HG13	27:d5:101:TYR:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1365:G:OP2	86:5:4023:OHX:N3	2.28	0.66
36:5:2101:C:O2'	36:5:2102:U:OP1	2.12	0.66
37:7:91:G:H2'	37:7:92:A:C8	2.29	0.66
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.19	0.66
49:m3:46:ILE:HA	49:m3:49:ARG:HH11	1.61	0.66
1:2:591:A:H2'	1:2:592:A:C8	2.30	0.66
15:C3:5:HIS:CE1	15:C3:121:ARG:HG3	2.30	0.66
26:D4:2:SER:N	26:D4:32:ARG:HG3	2.10	0.66
36:1:2273:G:H22	36:1:2311:G:H2'	1.59	0.66
46:L9:163:GLN:HB3	46:L9:166:ARG:HH11	1.60	0.66
78:Q2:77:CYS:SG	78:Q2:79:THR:HG22	2.36	0.66
6:s4:230:GLU:HB2	6:s4:233:LYS:HE3	1.76	0.66
40:l3:229:VAL:HG11	40:l3:249:VAL:HG12	1.75	0.66
61:n5:105:VAL:HG11	61:n5:126:LEU:HD22	1.76	0.66
4:S2:80:VAL:HG13	4:S2:81:MET:H	1.60	0.66
15:C3:93:LYS:HG3	15:C3:150:VAL:HG11	1.78	0.66
26:D4:36:SER:HB3	26:D4:39:GLU:HB2	1.76	0.66
41:L4:269:SER:O	41:L4:271:LYS:N	2.29	0.66
51:M5:65:ARG:HD2	51:M5:129:TYR:CE1	2.31	0.66
58:N2:50:LEU:O	58:N2:52:ASN:N	2.29	0.66
71:O5:66:VAL:HA	71:O5:69:LEU:HD12	1.75	0.66
72:O6:58:ILE:HG22	72:O6:90:MET:HG3	1.75	0.66
1:6:1734:U:H2'	1:6:1735:U:C6	2.30	0.66
5:s3:72:LEU:HG	12:c0:20:VAL:HG21	1.78	0.66
36:5:622:A:H2'	36:5:623:U:O4'	1.93	0.66
36:5:1070:U:O4	86:5:4106:OHX:N6	2.29	0.66
52:m6:27:LEU:HD11	52:m6:102:LEU:HB2	1.76	0.66
60:n4:119:GLU:O	60:n4:123:ARG:N	2.29	0.66
64:n8:3:SER:O	64:n8:6:THR:OG1	2.12	0.66
66:o0:13:LYS:HB3	66:o0:100:ILE:HG22	1.76	0.66
36:1:900:G:H1'	36:1:1589:A:N6	2.11	0.66
36:1:3085:G:OP2	86:1:3879:OHX:N2	2.28	0.66
25:d3:8:GLY:O	25:d3:11:SER:OG	2.14	0.66
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.59	0.66
13:C1:90:TYR:HD1	13:C1:91:LEU:N	1.93	0.66
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.77	0.66
36:1:13:A:H5''	36:1:13:A:H8	1.60	0.66
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.78	0.66
1:6:658:C:N4	1:6:673:A:N1	2.44	0.66
1:6:1132:A:OP1	25:d3:30:LYS:NZ	2.20	0.66
1:6:1133:A:H2'	1:6:1134:C:O4'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:346:THR:HA	40:l3:351:LEU:HD21	1.77	0.66
42:l5:111:GLN:HA	42:l5:116:ASP:HB3	1.77	0.66
1:2:1370:U:O4	86:2:2120:OHX:N1	2.28	0.66
36:1:789:A:H2'	36:1:790:U:C6	2.30	0.66
36:1:2252:A:H61	36:1:2264:U:H3	1.42	0.66
36:1:2683:U:H2'	36:1:2684:C:H6	1.61	0.66
36:1:2960:C:OP1	86:1:3996:OHX:N4	2.28	0.66
63:N7:3:LYS:HE3	66:O0:36:GLN:HG3	1.78	0.66
67:O1:44:MET:HB2	67:O1:46:THR:CG2	2.25	0.66
1:6:1395:G:O6	86:6:2088:OHX:N3	2.28	0.66
5:s3:29:LEU:HD21	5:s3:69:LEU:HD21	1.78	0.66
36:5:658:G:OP1	86:5:4087:OHX:N5	2.29	0.66
36:5:3244:A:OP2	40:l3:100:ARG:NH2	2.28	0.66
36:5:3259:U:H5''	36:5:3261:C:H5	1.59	0.66
47:m0:81:GLY:O	47:m0:83:ASP:N	2.24	0.66
48:m1:133:ARG:HB3	48:m1:134:PRO:HD2	1.78	0.66
1:2:386:G:P	10:S8:25:ARG:HH22	2.19	0.66
1:2:794:U:O2'	1:2:795:U:O2	2.13	0.66
86:2:2031:OHX:N6	86:2:2146:OHX:N5	2.43	0.66
20:C8:76:PRO:HG2	20:C8:86:LEU:HD21	1.77	0.66
34:SR:38:ARG:HA	34:SR:67:ILE:HA	1.77	0.66
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.78	0.66
36:1:679:U:O4	86:1:3966:OHX:N1	2.29	0.66
44:L7:127:LEU:O	44:L7:129:LEU:N	2.26	0.66
46:L9:4:ILE:HG23	46:L9:5:GLN:HB3	1.78	0.66
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.77	0.66
54:M8:63:SER:OG	54:M8:64:VAL:N	2.25	0.66
59:N3:10:LYS:HB2	59:N3:125:LEU:HD21	1.78	0.66
70:O4:46:ASP:OD2	70:O4:88:ARG:NH2	2.29	0.66
78:Q2:50:PHE:O	86:Q2:503:OHX:N2	2.29	0.66
5:s3:41:VAL:HA	5:s3:46:THR:HG23	1.77	0.66
13:c1:108:PRO:HG3	13:c1:134:THR:HB	1.77	0.66
36:5:410:U:O4	86:5:4097:OHX:N1	2.28	0.66
36:5:1155:C:H2'	36:5:1156:C:H6	1.59	0.66
36:5:1232:C:O2	81:p0:39:HIS:NE2	2.21	0.66
39:l2:20:THR:O	39:l2:23:ARG:HG2	1.96	0.66
1:2:1173:C:OP1	20:C8:132:ARG:NH1	2.29	0.66
86:2:2031:OHX:N3	86:2:2146:OHX:N5	2.44	0.66
2:S0:73:VAL:O	2:S0:95:ALA:HA	1.95	0.66
2:S0:154:GLU:HA	23:D1:63:GLY:HA2	1.76	0.66
8:S6:132:ARG:HG2	8:S6:133:LEU:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.28	0.66
25:D3:127:VAL:O	25:D3:129:GLY:N	2.29	0.66
36:1:1281:G:H2'	36:1:1282:G:H8	1.60	0.66
36:1:1786:G:H2'	36:1:1787:A:C8	2.30	0.66
1:6:882:U:H2'	1:6:883:C:C6	2.31	0.66
27:d5:71:ILE:HG23	27:d5:73:GLY:H	1.61	0.66
36:5:1412:G:OP1	68:o2:105:ARG:NH2	2.28	0.66
52:m6:65:ASN:HB3	52:m6:68:ARG:HD3	1.76	0.66
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.77	0.66
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.78	0.66
27:D5:55:PRO:O	27:D5:57:TYR:N	2.24	0.66
36:1:976:U:OP1	54:M8:144:ARG:NH2	2.29	0.66
36:1:1278:A:O2'	36:1:1279:C:O5'	2.13	0.66
36:1:1347:U:H4'	41:L4:305:ALA:HB2	1.78	0.66
59:N3:2:SER:N	59:N3:57:MET:H	1.93	0.66
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.27	0.66
1:6:961:U:H2'	1:6:962:C:C6	2.30	0.66
5:s3:222:VAL:HG23	34:sR:192:PHE:HA	1.77	0.66
7:s5:41:LYS:HZ3	7:s5:67:PRO:HG2	1.60	0.66
22:d0:46:GLU:O	22:d0:49:ASN:ND2	2.28	0.66
23:d1:73:ALA:HB3	23:d1:79:LEU:HD12	1.77	0.66
30:d8:11:LYS:HA	30:d8:53:ILE:HG12	1.76	0.66
36:5:2402:A:OP2	86:5:4105:OHX:N3	2.29	0.66
36:5:3115:C:OP1	46:l9:62:ARG:NH2	2.29	0.66
60:n4:82:ILE:HB	60:n4:85:ALA:HB3	1.77	0.66
1:2:651:G:N7	86:2:2103:OHX:N6	2.44	0.65
1:2:866:G:OP1	15:C3:2:GLY:HA2	1.97	0.65
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.60	0.65
22:D0:63:LEU:HB3	31:D9:34:TYR:CE2	2.31	0.65
36:1:1758:G:H1	36:1:1767:C:H42	1.42	0.65
36:1:2320:A:H2	79:Q3:16:VAL:HG12	1.59	0.65
1:6:116:U:H2'	1:6:117:U:H6	1.59	0.65
1:6:1330:G:H21	19:c7:8:THR:HG21	1.61	0.65
36:5:604:G:N7	86:5:4163:OHX:N2	2.43	0.65
36:5:825:U:OP1	39:l2:21:ARG:NH1	2.28	0.65
36:5:911:C:H42	39:l2:3:ARG:HD3	1.61	0.65
71:o5:89:ARG:HH11	71:o5:89:ARG:HG2	1.61	0.65
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.27	0.65
1:2:959:U:OP1	29:D7:30:SER:OG	2.12	0.65
1:2:1015:U:OP1	86:2:2044:OHX:N3	2.28	0.65
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:161:LYS:HB3	34:SR:164:ASP:HB3	1.78	0.65
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.28	0.65
40:L3:292:ALA:HA	40:L3:303:LYS:O	1.95	0.65
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.28	0.65
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.76	0.65
1:6:1255:G:O2'	1:6:1256:A:O5'	2.13	0.65
38:8:107:G:OP2	86:8:228:OHX:N1	2.29	0.65
47:m0:130:ASP:OD1	47:m0:131:ILE:N	2.30	0.65
19:C7:23:LYS:H	34:SR:216:LYS:HE2	1.61	0.65
36:1:1554:U:HO2'	36:1:1582:C:H5	1.44	0.65
36:1:2177:G:O6	86:1:3917:OHX:N2	2.30	0.65
36:1:2356:A:H61	36:1:2983:C:H5	1.43	0.65
36:1:2393:G:H4'	40:L3:252:ILE:HG12	1.77	0.65
36:1:3224:G:O6	86:1:3886:OHX:N4	2.28	0.65
51:M5:58:GLY:HA3	51:M5:142:ILE:HD11	1.78	0.65
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.11	0.65
1:6:828:U:H2'	1:6:829:A:H5''	1.77	0.65
1:6:932:U:O2	28:d6:32:LYS:NZ	2.30	0.65
3:s1:135:LEU:HB3	3:s1:217:LEU:HD12	1.78	0.65
8:s6:28:PHE:CZ	8:s6:104:PRO:HB3	2.32	0.65
22:d0:24:ILE:HG12	22:d0:116:VAL:HG12	1.78	0.65
36:5:679:U:O4	86:5:4008:OHX:N2	2.29	0.65
36:5:1174:G:N2	52:m6:87:MET:HE2	2.12	0.65
36:5:1938:U:O4	86:5:3943:OHX:N1	2.29	0.65
37:7:121:U:H5''	42:l5:265:TYR:HE1	1.61	0.65
40:l3:332:ARG:NH1	40:l3:333:LYS:HD2	2.10	0.65
45:l8:24:ASN:HB3	45:l8:25:PRO:HD2	1.79	0.65
47:m0:89:VAL:HG22	47:m0:136:PHE:CE1	2.31	0.65
54:m8:83:VAL:O	54:m8:85:GLY:N	2.28	0.65
62:n6:73:VAL:HA	62:n6:80:VAL:HG23	1.77	0.65
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.77	0.65
21:C9:105:LEU:HD22	21:C9:122:ARG:HG2	1.78	0.65
36:1:1817:G:OP1	86:1:4086:OHX:N1	2.29	0.65
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	1.96	0.65
44:L7:152:GLY:O	44:L7:163:LEU:HG	1.96	0.65
49:M3:48:PRO:HA	49:M3:137:GLN:HB3	1.79	0.65
52:M6:27:LEU:HD13	52:M6:98:ALA:O	1.97	0.65
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.11	0.65
1:6:1745:G:O6	86:6:2077:OHX:N4	2.28	0.65
51:m5:13:LYS:O	51:m5:16:SER:OG	2.14	0.65
52:m6:110:PRO:O	52:m6:111:PRO:C	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:30:VAL:O	54:m8:34:THR:HG23	1.96	0.65
1:2:768:C:H1'	11:S9:143:ILE:HG21	1.77	0.65
1:2:1600:A:H4'	1:2:1601:G:OP1	1.96	0.65
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.28	0.65
6:S4:180:LEU:O	6:S4:228:ILE:N	2.28	0.65
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.78	0.65
13:C1:95:PRO:O	13:C1:97:TYR:N	2.29	0.65
18:C6:50:GLU:OE1	18:C6:112:TYR:OH	2.11	0.65
36:1:743:C:O2	54:M8:141:ARG:HD3	1.97	0.65
40:L3:139:GLN:O	40:L3:141:GLY:N	2.30	0.65
49:M3:87:ALA:O	49:M3:90:ALA:N	2.29	0.65
52:M6:18:ARG:O	52:M6:22:VAL:HG12	1.97	0.65
66:O0:20:SER:OG	66:O0:96:GLY:HA3	1.95	0.65
1:6:1681:A:H2'	1:6:1682:U:H5'	1.78	0.65
10:s8:159:GLN:HE22	10:s8:166:TYR:HB2	1.60	0.65
22:d0:36:ASN:HA	22:d0:39:SER:HB2	1.77	0.65
36:5:419:G:N7	86:5:3898:OHX:N3	2.45	0.65
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.30	0.65
36:5:1334:U:H5''	44:l7:206:LYS:HB3	1.76	0.65
36:5:1508:C:OP1	53:m7:127:ARG:NH2	2.29	0.65
36:5:2245:C:H4'	39:l2:221:LYS:O	1.97	0.65
36:5:2444:C:H42	36:5:2503:G:H1	1.45	0.65
42:l5:211:LEU:HB3	42:l5:219:PHE:HB2	1.79	0.65
1:2:187:G:OP2	10:S8:142:LYS:NZ	2.27	0.65
3:S1:61:LEU:HB2	3:S1:64:ARG:HE	1.60	0.65
6:S4:100:ARG:NH2	6:S4:121:TYR:O	2.29	0.65
21:C9:27:LYS:HB3	21:C9:111:ILE:HD11	1.78	0.65
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.62	0.65
36:1:118:U:O2	36:1:121:A:H5'	1.96	0.65
36:1:372:A:H2'	36:1:373:A:C8	2.31	0.65
36:1:1493:G:O6	75:O9:2:ALA:HB2	1.96	0.65
36:1:1780:G:OP1	86:1:4048:OHX:N1	2.29	0.65
37:3:112:G:OP2	86:3:221:OHX:N1	2.30	0.65
56:N0:9:VAL:HG22	56:N0:61:ILE:HG12	1.78	0.65
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	1.78	0.65
15:c3:114:ARG:HD3	15:c3:117:LEU:HD12	1.78	0.65
20:c8:28:ILE:HG12	20:c8:61:LEU:HD11	1.79	0.65
36:5:1387:G:OP1	86:5:4195:OHX:N3	2.29	0.65
36:5:2666:C:H2'	36:5:2667:A:H5''	1.77	0.65
36:5:3159:C:H2'	36:5:3160:U:C6	2.31	0.65
46:l9:111:PHE:HD1	46:l9:127:PRO:HA	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:628:G:N2	1:2:970:A:OP2	2.26	0.65
1:2:1796:C:H5	28:D6:6:ALA:H	1.41	0.65
2:S0:120:LEU:HD21	2:S0:144:ILE:HD11	1.78	0.65
9:S7:38:LEU:HD23	9:S7:41:LEU:HD12	1.79	0.65
36:1:148:G:OP2	51:M5:4:TYR:OH	2.11	0.65
36:1:1295:G:O2'	56:N0:115:ARG:HD3	1.97	0.65
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.29	0.65
36:1:2660:G:OP1	36:1:2750:U:O2'	2.15	0.65
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.78	0.65
59:N3:28:ASN:HD21	59:N3:112:SER:HB2	1.62	0.65
1:6:523:G:OP2	26:d4:37:LYS:NZ	2.28	0.65
34:sR:29:GLN:HB2	34:sR:32:LEU:HB3	1.79	0.65
36:5:1409:G:O6	86:5:4157:OHX:N6	2.30	0.65
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.32	0.65
1:2:397:A:O3'	10:S8:50:GLY:HA2	1.96	0.65
1:2:1535:U:O2'	1:2:1536:G:N3	2.28	0.65
2:S0:183:ARG:NH2	2:S0:191:ARG:O	2.27	0.65
8:S6:2:LYS:HB2	8:S6:108:VAL:HG22	1.78	0.65
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.77	0.65
34:SR:200:ASN:H	34:SR:215:GLY:HA2	1.62	0.65
36:1:54:C:O2'	36:1:1547:G:H1'	1.97	0.65
36:1:1276:U:OP1	86:1:4081:OHX:N4	2.30	0.65
36:1:2538:U:O2'	36:1:2541:U:O4	2.10	0.65
36:1:3070:A:OP1	55:M9:62:ARG:NH2	2.29	0.65
36:1:3326:G:H2'	36:1:3327:G:H8	1.62	0.65
39:L2:201:GLY:O	39:L2:204:MET:HG2	1.96	0.65
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.12	0.65
46:L9:90:MET:HE2	46:L9:179:ILE:HG22	1.79	0.65
55:M9:21:LYS:O	55:M9:53:LYS:HB2	1.97	0.65
55:M9:101:VAL:HA	55:M9:104:ARG:CZ	2.27	0.65
63:N7:26:VAL:O	63:N7:93:LYS:NZ	2.30	0.65
1:6:496:G:O6	1:6:497:G:N2	2.25	0.65
1:6:1228:G:OP1	14:c2:119:SER:OG	2.13	0.65
1:6:1665:U:O4	86:6:2123:OHX:N6	2.29	0.65
2:s0:119:ARG:NH1	4:s2:241:ASP:OD1	2.25	0.65
3:s1:154:SER:O	3:s1:154:SER:OG	2.05	0.65
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.32	0.65
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.30	0.65
24:d2:67:GLY:O	24:d2:68:ARG:HG2	1.97	0.65
51:m5:96:ARG:NH2	51:m5:104:GLU:OE1	2.30	0.65
1:2:66:U:H5'	8:S6:173:PRO:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1796:C:H42	28:D6:93:LYS:HE2	1.61	0.65
4:S2:106:ASP:OD1	4:S2:108:ASN:N	2.28	0.65
36:1:789:A:H2'	36:1:790:U:H6	1.62	0.65
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.29	0.65
86:1:3951:OHX:N3	44:L7:217:PRO:O	2.30	0.65
63:N7:124:ALA:O	63:N7:126:LYS:N	2.25	0.65
1:6:207:U:O2	10:s8:178:ARG:NH1	2.26	0.65
1:6:899:G:N2	1:6:910:C:O2	2.18	0.65
16:c4:32:ASP:OD2	16:c4:33:LEU:N	2.30	0.65
18:c6:55:VAL:HG11	18:c6:89:LEU:HD21	1.79	0.65
25:d3:59:ILE:HG12	80:e0:4:VAL:HG22	1.78	0.65
34:sR:13:LEU:HB2	34:sR:310:ILE:HB	1.79	0.65
36:5:900:G:H1'	36:5:1589:A:N6	2.11	0.65
40:l3:187:SER:O	40:l3:190:GLU:N	2.30	0.65
1:2:649:U:O2'	1:2:650:U:O5'	2.15	0.65
3:S1:61:LEU:HG	3:S1:64:ARG:NH2	2.12	0.65
3:S1:126:THR:HG22	3:S1:136:ARG:HE	1.61	0.65
36:1:624:G:OP2	86:1:4128:OHX:N3	2.30	0.65
36:1:979:U:H1'	36:1:980:A:C8	2.32	0.65
1:6:800:U:H2'	1:6:801:G:C8	2.32	0.65
22:d0:71:PRO:O	22:d0:72:ASN:ND2	2.29	0.65
27:d5:66:VAL:HG22	27:d5:71:ILE:HG22	1.77	0.65
36:5:796:U:H2'	36:5:797:U:H6	1.61	0.65
36:5:1578:C:H3'	36:5:1579:C:C6	2.32	0.65
36:5:2761:G:O6	36:5:2796:G:H5''	1.97	0.65
39:l2:144:ASN:ND2	39:l2:161:ASP:OD1	2.30	0.65
42:l5:68:THR:HG22	42:l5:69:ILE:H	1.62	0.65
73:o7:62:GLY:O	86:o7:103:OHX:N3	2.30	0.65
3:S1:77:GLU:HG3	16:C4:114:ARG:HH22	1.62	0.64
34:SR:140:CYS:SG	34:SR:141:LEU:N	2.70	0.64
36:1:1597:C:H42	36:1:1610:G:H1	1.43	0.64
36:1:2278:C:OP1	86:1:3950:OHX:N3	2.30	0.64
36:1:2897:A:H2'	36:1:2899:C:H5''	1.79	0.64
36:1:3246:G:O6	86:1:4103:OHX:N4	2.30	0.64
41:L4:57:GLY:HA3	41:L4:98:ARG:HB2	1.79	0.64
1:6:1019:A:OP2	15:c3:107:LYS:NZ	2.30	0.64
3:s1:113:MET:HE3	3:s1:142:PHE:HE2	1.61	0.64
17:c5:48:GLY:O	17:c5:50:THR:N	2.30	0.64
25:d3:57:LEU:HD22	80:e0:4:VAL:HG13	1.80	0.64
36:5:1385:C:OP1	41:l4:141:ARG:NH2	2.24	0.64
36:5:3153:U:H4'	36:5:3154:C:H5'	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:26:PHE:HA	41:l4:127:ALA:HA	1.79	0.64
50:m4:47:ASP:OD2	50:m4:48:GLY:N	2.29	0.64
70:o4:105:VAL:HA	70:o4:108:GLN:HB2	1.79	0.64
1:2:1230:A:H2'	1:2:1258:U:H5	1.62	0.64
1:2:1290:U:OP1	4:S2:95:ARG:NH1	2.30	0.64
86:2:2031:OHX:N4	86:2:2146:OHX:N1	2.45	0.64
36:1:1688:U:H2'	36:1:1689:U:C6	2.32	0.64
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.30	0.64
41:L4:292:SER:OG	41:L4:293:SER:N	2.30	0.64
49:M3:126:PHE:O	71:O5:114:ARG:NH2	2.30	0.64
2:s0:74:VAL:HA	2:s0:96:THR:O	1.97	0.64
3:s1:81:PHE:HD2	3:s1:82:ARG:H	1.45	0.64
6:s4:100:ARG:NH2	6:s4:121:TYR:O	2.29	0.64
17:c5:7:ALA:O	17:c5:9:LYS:N	2.30	0.64
36:5:655:C:H2'	36:5:656:A:C8	2.32	0.64
36:5:1025:A:H3'	36:5:1026:A:H4'	1.78	0.64
1:2:123:G:H21	6:S4:146:THR:HG21	1.62	0.64
1:2:329:G:H5''	10:S8:98:LYS:HB3	1.79	0.64
1:2:1290:U:H2'	1:2:1291:G:C8	2.33	0.64
6:S4:163:ASP:O	6:S4:165:ALA:N	2.29	0.64
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.63	0.64
36:1:85:A:O2'	86:1:4137:OHX:N6	2.30	0.64
36:1:249:U:H1'	36:1:250:U:O2	1.97	0.64
36:1:1667:A:H2'	36:1:1668:G:C8	2.32	0.64
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.33	0.64
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.28	0.64
45:L8:143:ILE:HD11	45:L8:151:VAL:HG21	1.79	0.64
48:M1:96:PHE:HB2	48:M1:156:LYS:HE3	1.78	0.64
56:N0:89:ASN:ND2	57:N1:156:TYR:HB3	2.12	0.64
59:N3:33:ASN:HD21	59:N3:63:LYS:H	1.46	0.64
61:N5:73:MET:HE1	61:N5:141:TYR:HD1	1.61	0.64
61:N5:82:LEU:HD11	61:N5:135:ILE:HG21	1.79	0.64
1:6:1757:G:O6	86:6:2046:OHX:N4	2.31	0.64
36:5:1024:G:N7	36:5:1027:A:N6	2.46	0.64
1:2:775:G:N7	26:D4:11:LYS:NZ	2.45	0.64
1:2:1550:A:P	17:C5:42:ARG:HH22	2.21	0.64
1:2:1720:G:O6	86:2:2081:OHX:N5	2.31	0.64
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.79	0.64
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.61	0.64
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.62	0.64
36:1:1487:G:H1	36:1:1855:U:H3	1.42	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:91:G:H2'	37:3:92:A:C8	2.33	0.64
39:L2:117:GLU:HG2	39:L2:122:ASP:H	1.62	0.64
1:6:143:G:N7	8:s6:177:ARG:NH2	2.45	0.64
1:6:805:U:H2'	1:6:806:A:H5'	1.80	0.64
1:6:886:U:O2'	16:c4:121:VAL:O	2.16	0.64
11:s9:108:ARG:HB3	11:s9:110:GLN:HB3	1.79	0.64
22:d0:33:GLN:N	22:d0:33:GLN:OE1	2.30	0.64
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.31	0.64
48:m1:28:ASP:OD2	48:m1:32:ARG:NH2	2.25	0.64
76:q0:106:ARG:HB2	76:q0:106:ARG:NH1	2.12	0.64
1:2:1114:G:O6	86:2:2073:OHX:N5	2.30	0.64
8:S6:20:ASP:HB3	8:S6:23:ARG:HB2	1.79	0.64
36:1:409:A:OP2	86:1:4051:OHX:N5	2.31	0.64
36:1:855:U:H2'	36:1:856:G:O4'	1.98	0.64
36:1:1472:U:H2'	36:1:1473:G:C8	2.32	0.64
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.31	0.64
45:L8:81:THR:HG21	45:L8:181:LYS:HD3	1.79	0.64
1:6:86:A:OP2	86:6:2188:OHX:N1	2.31	0.64
1:6:280:U:OP2	60:n4:113:LYS:NZ	2.26	0.64
8:s6:48:TYR:CZ	8:s6:121:LEU:HD22	2.33	0.64
36:5:3065:G:O6	86:5:4100:OHX:N6	2.30	0.64
46:l9:88:TYR:CZ	46:l9:184:LYS:HD3	2.32	0.64
57:n1:122:GLN:HB3	57:n1:124:VAL:HG23	1.80	0.64
4:S2:69:ILE:HG12	4:S2:133:LYS:HB3	1.80	0.64
17:C5:119:PHE:HE1	20:C8:119:ILE:HG23	1.63	0.64
40:L3:171:LEU:O	86:L3:405:OHX:N6	2.31	0.64
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.80	0.64
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.29	0.64
47:M0:16:PRO:C	47:M0:18:PRO:HD3	2.22	0.64
1:6:1253:U:O4	33:e1:97:LYS:NZ	2.30	0.64
2:s0:66:ALA:HB1	23:d1:50:TYR:HD1	1.61	0.64
22:d0:44:ASN:HA	22:d0:47:GLN:HB3	1.80	0.64
36:5:3085:G:OP2	86:5:3899:OHX:N1	2.31	0.64
1:2:7:G:O6	4:S2:205:ARG:NH2	2.31	0.64
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	1.80	0.64
36:1:1221:A:H3'	36:1:1222:G:H5'	1.80	0.64
36:1:1783:U:H2'	36:1:1784:G:C8	2.33	0.64
54:M8:54:LEU:HD13	54:M8:58:ASN:HB3	1.80	0.64
55:M9:11:ALA:O	55:M9:15:VAL:HG23	1.97	0.64
1:6:1258:U:H4'	12:c0:2:LEU:HD22	1.80	0.64
17:c5:123:TYR:HD1	17:c5:123:TYR:H	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c7:34:LEU:HD13	19:c7:38:ILE:HD12	1.80	0.64
34:sR:220:ILE:HB	34:sR:234:LEU:HB2	1.80	0.64
36:5:1101:G:H1'	44:l7:105:LEU:HD22	1.79	0.64
36:5:1808:G:O6	86:5:4018:OHX:N3	2.31	0.64
36:5:2526:C:H1'	36:5:2588:U:H5''	1.79	0.64
36:5:2822:U:OP2	86:5:3946:OHX:N1	2.30	0.64
36:5:3190:C:OP1	52:m6:168:TYR:OH	2.15	0.64
39:l2:118:GLU:HG3	39:l2:126:LEU:HD21	1.80	0.64
63:n7:33:SER:OG	63:n7:34:LYS:N	2.27	0.64
1:2:480:G:N2	1:2:509:G:H1'	2.13	0.64
4:S2:142:GLY:HA2	4:S2:151:PRO:HB3	1.80	0.64
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.80	0.64
10:S8:9:HIS:HD2	10:S8:10:LYS:HB2	1.62	0.64
36:1:70:A:N1	36:1:313:A:O2'	2.24	0.64
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.33	0.64
36:1:2630:C:C5	57:N1:4:SER:HB2	2.33	0.64
37:3:5:G:OP1	48:M1:143:ARG:NH2	2.27	0.64
47:M0:99:ILE:HG13	47:M0:100:ASN:N	2.13	0.64
67:O1:17:HIS:CG	67:O1:69:TYR:HD1	2.16	0.64
1:6:637:C:OP1	24:d2:32:LYS:HG3	1.98	0.64
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.80	0.64
36:5:519:A:OP2	44:l7:70:LYS:NZ	2.20	0.64
36:5:789:A:H2'	36:5:790:U:H6	1.63	0.64
39:l2:49:VAL:HG22	39:l2:50:HIS:H	1.62	0.64
52:m6:42:ASN:OD1	52:m6:125:ARG:HD3	1.98	0.64
57:n1:45:ASN:OD1	57:n1:47:SER:OG	2.15	0.64
76:q0:99:CYS:HB3	76:q0:114:LYS:HD3	1.79	0.64
1:2:246:G:H1'	13:C1:40:LEU:HD13	1.80	0.64
1:2:1241:G:H1'	17:C5:79:HIS:CG	2.32	0.64
1:2:1274:C:H5	35:SM:96:ARG:H	1.45	0.64
1:2:1795:U:H4'	28:D6:84:VAL:HG23	1.79	0.64
2:S0:21:ASN:O	2:S0:163:ASN:ND2	2.30	0.64
2:S0:69:ASN:HB3	2:S0:71:GLU:HG2	1.80	0.64
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.62	0.64
36:1:2202:C:O2'	39:L2:240:ALA:O	2.13	0.64
36:1:2898:G:H5''	36:1:2899:C:C5'	2.28	0.64
39:L2:54:ARG:HG2	39:L2:56:ALA:H	1.62	0.64
52:M6:102:LEU:HD12	52:M6:103:LYS:N	2.12	0.64
1:6:218:A:H61	1:6:829:A:H2	1.45	0.64
36:5:916:G:C6	39:l2:207:VAL:HG11	2.33	0.64
36:5:1073:U:H1'	65:n9:50:THR:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2179:C:O2'	39:l2:174:ARG:NH2	2.31	0.64
67:o1:13:THR:HG22	67:o1:72:ARG:HH21	1.63	0.64
11:S9:62:ARG:O	11:S9:69:ARG:NH1	2.31	0.64
36:1:12:A:OP1	86:1:4200:OHX:N6	2.31	0.64
41:L4:185:LYS:HZ1	41:L4:201:GLN:HG2	1.61	0.64
52:M6:76:PRO:HB3	52:M6:138:LEU:HD23	1.80	0.64
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.98	0.64
78:Q2:10:THR:OG1	78:Q2:11:TYR:N	2.30	0.64
1:6:246:G:H2'	1:6:247:A:C8	2.33	0.64
1:6:1696:G:N2	1:6:1704:U:H3	1.96	0.64
9:s7:73:VAL:O	9:s7:75:THR:N	2.29	0.64
44:l7:123:THR:HA	44:l7:126:LEU:HD12	1.80	0.64
49:m3:132:ALA:O	49:m3:134:GLU:N	2.24	0.64
74:o8:8:ILE:H	74:o8:8:ILE:HD12	1.63	0.64
1:2:301:A:OP2	86:2:2063:OHX:N2	2.31	0.63
1:2:1672:G:H2'	1:2:1673:G:C8	2.33	0.63
6:S4:103:TYR:O	6:S4:182:TYR:OH	2.16	0.63
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.31	0.63
36:1:915:A:O2'	36:1:917:A:OP1	2.15	0.63
36:1:1033:U:H2'	36:1:1034:U:C6	2.34	0.63
36:1:2416:U:H2'	36:1:2417:U:C6	2.33	0.63
36:1:2687:G:OP1	42:L5:8:LYS:NZ	2.25	0.63
36:1:2734:A:OP1	86:1:4001:OHX:N3	2.30	0.63
36:1:3189:G:H2'	36:1:3190:C:O4'	1.98	0.63
41:L4:300:ARG:HH11	41:L4:300:ARG:HB2	1.63	0.63
42:L5:55:PHE:CZ	42:L5:158:ARG:HG3	2.33	0.63
47:M0:95:HIS:CD2	47:M0:128:ARG:HE	2.16	0.63
52:M6:85:ARG:HD3	52:M6:90:HIS:CG	2.32	0.63
11:s9:92:LYS:HB2	11:s9:95:TYR:HD2	1.63	0.63
36:5:956:U:H2'	36:5:957:C:H6	1.62	0.63
36:5:1501:U:H3	36:5:1515:A:H61	1.43	0.63
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.78	0.63
39:l2:79:ASN:ND2	39:l2:165:VAL:HG22	2.13	0.63
43:l6:31:ARG:NH1	69:o3:107:ILE:HG22	2.11	0.63
3:S1:130:SER:OG	3:S1:131:ASP:N	2.24	0.63
4:S2:39:THR:OG1	4:S2:65:GLU:OE2	2.16	0.63
6:S4:200:ARG:NH2	6:S4:202:ASP:OD1	2.31	0.63
9:S7:35:LYS:O	9:S7:37:GLU:N	2.31	0.63
13:C1:99:ARG:HB3	25:D3:9:LEU:O	1.97	0.63
16:C4:111:ARG:NH2	28:D6:57:SER:O	2.31	0.63
18:C6:50:GLU:OE1	18:C6:114:ARG:NH1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.11	0.63
36:1:1196:C:O2	86:1:3988:OHX:N2	2.31	0.63
36:1:1563:C:O2	36:1:1577:G:N2	2.20	0.63
36:1:2534:G:O6	86:1:3991:OHX:N6	2.31	0.63
61:N5:103:TYR:HE1	61:N5:139:ILE:HD12	1.63	0.63
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.63	0.63
74:O8:46:ARG:HH21	74:O8:51:LEU:HB2	1.62	0.63
1:6:180:A:H2'	1:6:181:A:O4'	1.98	0.63
1:6:191:C:O2'	1:6:192:U:O5'	2.14	0.63
1:6:866:G:OP1	15:c3:2:GLY:N	2.32	0.63
1:6:1108:G:N1	25:d3:22:ASN:OD1	2.31	0.63
1:6:1126:G:OP1	77:q1:15:ARG:NH1	2.32	0.63
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.31	0.63
18:c6:39:VAL:HG12	18:c6:41:PRO:HD2	1.80	0.63
26:d4:29:HIS:O	26:d4:31:ASN:N	2.31	0.63
36:5:507:U:H2'	36:5:508:U:C6	2.33	0.63
36:5:841:A:H2'	36:5:842:G:C8	2.32	0.63
36:5:975:C:H2'	36:5:976:U:H6	1.64	0.63
38:8:38:U:H5	71:o5:83:LYS:HA	1.64	0.63
71:o5:38:ARG:HG3	71:o5:39:PRO:HD2	1.80	0.63
11:S9:163:PRO:O	11:S9:165:GLY:N	2.31	0.63
36:1:1014:U:H2'	36:1:1015:U:H5''	1.79	0.63
52:M6:14:HIS:HE1	52:M6:119:VAL:HG12	1.64	0.63
1:6:463:U:H2'	1:6:464:A:H8	1.64	0.63
1:6:886:U:H2'	1:6:887:A:H8	1.63	0.63
1:6:1270:G:O2'	33:e1:79:LYS:HB2	1.98	0.63
11:s9:21:SER:HA	11:s9:24:LEU:HD12	1.80	0.63
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.33	0.63
16:c4:71:CYS:HB3	16:c4:76:ILE:HB	1.80	0.63
27:d5:54:VAL:HA	27:d5:57:TYR:CE1	2.33	0.63
43:l6:153:PRO:O	43:l6:154:LEU:HB2	1.97	0.63
44:l7:142:SER:O	44:l7:146:GLN:HG3	1.98	0.63
56:n0:73:LYS:NZ	56:n0:97:VAL:O	2.32	0.63
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.81	0.63
3:S1:181:LEU:O	3:S1:184:LEU:N	2.30	0.63
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.31	0.63
53:M7:29:THR:O	53:M7:32:THR:N	2.32	0.63
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.34	0.63
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.24	0.63
1:6:887:A:H2'	1:6:888:U:C6	2.34	0.63
1:6:1230:A:H2'	1:6:1258:U:H5	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:157:GLN:HB2	3:s1:160:HIS:CE1	2.34	0.63
16:c4:32:ASP:OD2	16:c4:34:SER:N	2.31	0.63
36:5:246:U:H2'	36:5:247:C:H5''	1.80	0.63
36:5:2507:C:O2'	36:5:2508:U:OP1	2.13	0.63
36:5:3074:G:OP1	86:5:4114:OHX:N4	2.31	0.63
36:5:3165:A:H61	36:5:3285:C:N4	1.95	0.63
36:5:3348:G:H1	36:5:3357:U:H3	1.46	0.63
38:8:95:G:H1'	73:o7:81:GLY:O	1.99	0.63
40:l3:25:ILE:HD11	40:l3:334:ARG:HE	1.63	0.63
45:l8:171:LYS:NZ	45:l8:223:ALA:O	2.32	0.63
62:n6:83:ASP:O	62:n6:84:LYS:HB2	1.98	0.63
1:2:280:U:O2'	1:2:281:G:OP2	2.16	0.63
1:2:577:G:OP2	35:SM:105:LYS:NZ	2.31	0.63
5:S3:7:LYS:HE3	22:D0:27:THR:HG21	1.79	0.63
7:S5:51:VAL:O	7:S5:65:ARG:NH2	2.30	0.63
13:C1:139:VAL:O	13:C1:140:VAL:HB	1.97	0.63
17:C5:48:GLY:O	17:C5:52:LYS:HD3	1.98	0.63
36:1:656:A:H2'	36:1:657:A:H8	1.64	0.63
36:1:2737:C:OP1	57:N1:69:LYS:HB3	1.99	0.63
36:1:2970:C:H4'	36:1:2971:A:C6	2.33	0.63
40:L3:146:ARG:HA	40:L3:146:ARG:NE	2.13	0.63
40:L3:152:LYS:HE3	40:L3:192:VAL:HG22	1.80	0.63
74:O8:14:LEU:HA	74:O8:17:ARG:HG3	1.79	0.63
1:6:890:C:H2'	1:6:891:A:C8	2.33	0.63
10:s8:98:LYS:HB2	10:s8:172:ARG:HG3	1.79	0.63
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	1.79	0.63
21:c9:33:TYR:CD1	21:c9:37:VAL:HG21	2.34	0.63
36:5:979:U:H1'	36:5:980:A:C4	2.33	0.63
36:5:1318:A:OP1	52:m6:18:ARG:NH2	2.30	0.63
36:5:1627:U:O2'	36:5:1630:U:O2	2.11	0.63
43:l6:5:LYS:HG3	43:l6:6:ALA:H	1.64	0.63
43:l6:30:LEU:HD22	43:l6:34:LEU:HD12	1.80	0.63
52:m6:39:GLU:OE1	52:m6:39:GLU:N	2.23	0.63
79:q3:59:CYS:SG	79:q3:60:CYS:N	2.72	0.63
2:S0:110:TYR:HE2	4:S2:64:LYS:HB3	1.63	0.63
3:S1:137:ILE:HG13	3:S1:172:LEU:HD13	1.81	0.63
5:S3:43:PRO:O	5:S3:44:THR:HB	1.98	0.63
7:S5:57:SER:HA	30:D8:53:ILE:HD13	1.81	0.63
17:C5:20:VAL:HG12	17:C5:24:LYS:HD2	1.80	0.63
21:C9:4:VAL:HG11	21:C9:137:ALA:HB2	1.79	0.63
28:D6:38:ARG:NH2	28:D6:83:ILE:HG21	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:239:G:O6	86:1:4029:OHX:N3	2.32	0.63
36:1:970:A:OP1	65:N9:18:ARG:NH1	2.30	0.63
52:M6:127:LEU:HD23	56:N0:156:VAL:HG12	1.79	0.63
1:6:168:A:H2'	1:6:169:A:C8	2.34	0.63
1:6:1558:U:H3	17:c5:122:THR:HB	1.63	0.63
1:6:1696:G:H2'	1:6:1698:G:O6	1.99	0.63
2:s0:13:ASP:OD1	2:s0:179:ARG:NH2	2.24	0.63
36:5:637:C:H1'	36:5:638:C:C6	2.32	0.63
36:5:2344:U:H2'	36:5:2345:A:C8	2.34	0.63
39:l2:70:ARG:CZ	39:l2:72:ARG:HE	2.11	0.63
39:l2:79:ASN:HD22	39:l2:165:VAL:HG22	1.63	0.63
42:l5:270:LYS:O	42:l5:273:ARG:HB3	1.99	0.63
53:m7:24:VAL:HG12	53:m7:86:LYS:HD3	1.79	0.63
65:n9:51:ALA:O	65:n9:54:LEU:N	2.30	0.63
1:2:205:U:O4	86:2:2066:OHX:N3	2.31	0.63
1:2:252:U:H2'	1:2:253:A:H8	1.64	0.63
1:2:1591:C:H2'	1:2:1592:A:H8	1.64	0.63
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.32	0.63
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.33	0.63
52:M6:8:VAL:HG23	52:M6:34:VAL:HG13	1.79	0.63
1:6:126:A:OP1	8:s6:201:GLN:HG2	1.98	0.63
1:6:964:U:OP1	15:c3:128:TYR:OH	2.16	0.63
1:6:1161:C:H2'	1:6:1162:C:H6	1.64	0.63
5:s3:37:VAL:HG12	5:s3:50:ILE:HA	1.80	0.63
26:d4:120:GLY:O	26:d4:122:GLY:N	2.30	0.63
36:5:1706:C:H2'	36:5:1707:A:O4'	1.99	0.63
36:5:2404:A:H2'	36:5:2405:C:H5'	1.79	0.63
39:l2:225:ILE:HG21	39:l2:234:LYS:HA	1.80	0.63
40:l3:53:MET:HG2	40:l3:77:THR:HG22	1.80	0.63
41:l4:341:SER:O	41:l4:342:LYS:HB3	1.98	0.63
45:l8:224:ASP:N	45:l8:224:ASP:OD1	2.29	0.63
50:m4:38:ILE:HD13	56:n0:148:LEU:HD13	1.81	0.63
1:2:53:G:H2'	1:2:54:C:C6	2.33	0.63
8:S6:70:PRO:HD2	8:S6:71:THR:HG23	1.80	0.63
16:C4:81:VAL:HG13	16:C4:115:ILE:HG21	1.79	0.63
64:N8:71:PRO:HB2	64:N8:109:TYR:HA	1.80	0.63
1:6:447:U:O2'	6:s4:25:GLY:HA3	1.98	0.63
1:6:463:U:H2'	1:6:464:A:C8	2.33	0.63
12:c0:56:LYS:N	12:c0:67:THR:O	2.24	0.63
36:5:2510:U:O2'	36:5:2511:A:H5''	1.98	0.63
39:l2:98:VAL:HG13	39:l2:167:GLY:HA3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:3:HIS:ND1	40:l3:3:HIS:O	2.30	0.63
40:l3:56:ILE:HG12	40:l3:356:LEU:HD22	1.80	0.63
42:l5:177:GLU:O	42:l5:179:ARG:N	2.32	0.63
46:l9:93:VAL:O	46:l9:177:ASP:HA	1.98	0.63
53:m7:103:GLU:O	53:m7:106:GLY:N	2.30	0.63
67:o1:70:ARG:HE	67:o1:102:LYS:HZ1	1.45	0.63
69:o3:16:TYR:CD2	69:o3:25:PRO:HA	2.33	0.63
1:2:52:U:H2'	1:2:53:G:H8	1.64	0.63
1:2:651:G:O6	86:2:2103:OHX:N4	2.32	0.63
1:2:742:U:O2	9:S7:107:ARG:NH1	2.31	0.63
1:2:839:U:H5''	13:C1:28:SER:HB3	1.81	0.63
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.81	0.63
31:D9:46:LYS:O	31:D9:48:ASN:N	2.31	0.63
36:1:49:A:OP1	49:M3:16:LYS:NZ	2.26	0.63
36:1:156:G:OP2	72:O6:25:LYS:HB3	1.99	0.63
36:1:2553:U:O2'	70:O4:91:ARG:NE	2.29	0.63
36:1:3042:U:OP2	36:1:3092:C:N4	2.21	0.63
42:L5:289:LYS:HD3	47:M0:206:LEU:HD23	1.81	0.63
52:M6:25:LYS:HD2	52:M6:29:ASN:HD21	1.64	0.63
2:S0:62:ARG:HD3	23:D1:37:ALA:HB3	1.81	0.62
27:D5:50:ILE:HD12	27:D5:83:LEU:HD21	1.80	0.62
36:1:964:G:OP1	86:1:3957:OHX:N2	2.32	0.62
36:1:1220:U:OP1	36:1:1221:A:O2'	2.16	0.62
37:3:64:A:H3'	47:M0:204:GLY:O	1.99	0.62
46:L9:2:LYS:NZ	46:L9:59:ASN:HD21	1.96	0.62
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.81	0.62
51:M5:42:PRO:HG3	51:M5:61:ILE:HG13	1.80	0.62
52:M6:44:SER:O	52:M6:50:ASN:ND2	2.31	0.62
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.81	0.62
1:6:1542:G:H22	1:6:1568:C:H1'	1.64	0.62
1:6:1680:G:O6	86:6:2189:OHX:N1	2.32	0.62
3:s1:114:VAL:HG22	3:s1:142:PHE:HZ	1.64	0.62
6:s4:207:LEU:HD23	6:s4:221:ARG:HA	1.79	0.62
7:s5:97:LEU:O	7:s5:99:MET:N	2.29	0.62
34:sR:89:LEU:HB2	34:sR:103:PHE:HB2	1.80	0.62
1:2:1726:G:N7	86:2:2098:OHX:N4	2.47	0.62
5:S3:116:ARG:O	5:S3:120:TYR:HB2	1.99	0.62
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.79	0.62
36:1:299:G:N7	86:1:4076:OHX:N2	2.46	0.62
36:1:539:C:H2'	36:1:540:U:H6	1.64	0.62
42:L5:40:HIS:CE1	57:N1:69:LYS:HA	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.81	0.62
51:M5:114:ARG:HG2	51:M5:137:PRO:HG3	1.80	0.62
62:N6:28:ARG:HB2	62:N6:75:ARG:NH2	2.14	0.62
63:N7:29:HIS:O	63:N7:31:GLU:N	2.32	0.62
74:O8:40:GLN:NE2	74:O8:57:ASN:OD1	2.30	0.62
79:Q3:13:LYS:HE3	79:Q3:14:TYR:CZ	2.34	0.62
1:6:12:U:OP1	4:s2:84:LYS:NZ	2.28	0.62
1:6:140:A:N6	1:6:281:G:OP1	2.32	0.62
7:s5:174:LEU:O	7:s5:178:GLY:N	2.31	0.62
18:c6:50:GLU:OE2	18:c6:82:ARG:NH2	2.31	0.62
19:c7:41:ILE:HD13	19:c7:47:ARG:HA	1.81	0.62
34:sR:90:ARG:HH21	34:sR:102:ARG:NH2	1.95	0.62
36:5:1474:A:O2'	67:o1:57:GLN:NE2	2.31	0.62
36:5:3295:A:H2'	36:5:3296:A:C8	2.34	0.62
41:l4:286:VAL:O	41:l4:290:ILE:HG12	1.98	0.62
43:l6:171:PRO:HA	43:l6:174:LEU:HD12	1.80	0.62
75:o9:34:THR:O	75:o9:36:ARG:N	2.32	0.62
81:p0:4:ILE:H	81:p0:4:ILE:HD13	1.64	0.62
1:2:482:U:H2'	1:2:483:A:H8	1.64	0.62
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.81	0.62
31:D9:24:CYS:O	31:D9:25:SER:OG	2.13	0.62
33:E1:135:HIS:HB2	33:E1:138:ARG:HB3	1.80	0.62
36:1:847:A:H2'	36:1:848:A:C8	2.34	0.62
36:1:3152:U:O2'	36:1:3153:U:H5'	2.00	0.62
48:M1:52:TYR:HA	48:M1:61:ARG:HB2	1.80	0.62
79:Q3:49:ARG:HD3	79:Q3:50:GLY:N	2.14	0.62
1:6:307:G:OP1	13:c1:90:TYR:OH	2.13	0.62
7:s5:143:ARG:HG3	7:s5:167:ARG:NH1	2.14	0.62
23:d1:55:LEU:HD11	23:d1:69:LEU:HG	1.81	0.62
36:5:1659:U:H3	36:5:1790:G:H1	1.46	0.62
36:5:2338:C:H1'	59:n3:49:LEU:HD12	1.81	0.62
36:5:2339:C:P	59:n3:48:ARG:HG2	2.39	0.62
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.31	0.62
39:l2:35:ALA:HA	45:l8:36:ILE:HD13	1.81	0.62
39:l2:201:GLY:HA2	39:l2:204:MET:SD	2.39	0.62
52:m6:110:PRO:O	52:m6:113:ASP:N	2.32	0.62
72:o6:81:THR:HA	72:o6:84:LYS:HE3	1.81	0.62
1:2:1619:C:H2'	1:2:1620:C:H6	1.64	0.62
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.15	0.62
41:L4:311:HIS:NE2	41:L4:314:LYS:HA	2.14	0.62
46:L9:163:GLN:OE1	46:L9:166:ARG:NH1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:22:VAL:HG21	52:M6:120:VAL:HG11	1.79	0.62
77:Q1:6:ARG:O	77:Q1:10:THR:OG1	2.16	0.62
3:s1:51:SER:HB3	3:s1:57:ALA:H	1.63	0.62
3:s1:134:VAL:N	3:s1:219:LYS:O	2.32	0.62
36:5:77:A:N7	49:m3:73:ARG:NH2	2.47	0.62
36:5:2233:A:OP2	86:5:3955:OHX:N5	2.31	0.62
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.80	0.62
60:n4:108:LYS:O	60:n4:111:ALA:N	2.31	0.62
77:q1:2:ARG:HG2	77:q1:5:TRP:CD1	2.35	0.62
1:2:580:A:H5''	5:S3:143:ARG:HH12	1.64	0.62
19:C7:88:VAL:HG22	19:C7:89:SER:H	1.64	0.62
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.17	0.62
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.29	0.62
36:1:1599:G:H1	36:1:1608:C:H42	1.48	0.62
36:1:2185:G:O2'	36:1:2314:U:OP2	2.17	0.62
86:1:4194:OHX:N6	86:O1:202:OHX:N5	2.48	0.62
49:M3:18:TRP:C	49:M3:20:GLU:H	2.08	0.62
53:M7:102:ALA:HA	53:M7:107:LEU:HD23	1.81	0.62
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	1.82	0.62
1:6:151:G:H2'	1:6:152:U:H6	1.64	0.62
1:6:1455:G:OP1	17:c5:122:THR:HG21	2.00	0.62
15:c3:64:ARG:HD2	15:c3:70:LYS:HD2	1.80	0.62
43:l6:91:VAL:HG23	43:l6:92:SER:O	1.99	0.62
69:o3:59:VAL:O	69:o3:61:GLY:N	2.32	0.62
1:2:71:A:H1'	1:2:81:G:N2	2.14	0.62
1:2:264:G:N7	86:2:2034:OHX:N1	2.48	0.62
1:2:471:A:OP2	86:2:2075:OHX:N4	2.32	0.62
1:2:800:U:O4	86:2:2053:OHX:N5	2.32	0.62
2:S0:14:ALA:HA	2:S0:17:LEU:HD12	1.80	0.62
3:S1:51:SER:HA	3:S1:57:ALA:H	1.64	0.62
5:S3:115:ILE:HD11	5:S3:138:VAL:HG21	1.80	0.62
8:S6:114:VAL:O	8:S6:115:LYS:HD3	1.99	0.62
16:C4:91:THR:O	16:C4:93:THR:N	2.30	0.62
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.62	0.62
34:SR:91:LEU:O	34:SR:100:TYR:N	2.26	0.62
36:1:2228:A:H2'	36:1:2229:A:C8	2.35	0.62
57:N1:38:ASP:OD1	57:N1:38:ASP:N	2.26	0.62
1:6:1081:A:H1'	1:6:1082:C:H5	1.63	0.62
36:5:269:G:H5''	51:m5:14:LYS:HE2	1.80	0.62
36:5:1051:U:H4'	57:n1:19:PHE:CD2	2.33	0.62
36:5:1135:A:C2	36:5:1136:A:C8	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1222:G:O6	86:5:4124:OHX:N1	2.32	0.62
36:5:2970:C:H4'	36:5:2971:A:N1	2.14	0.62
36:5:3362:A:C2	36:5:3363:U:C2	2.88	0.62
42:15:39:GLN:HG3	42:15:40:HIS:O	1.99	0.62
53:m7:27:LYS:HD3	53:m7:63:PHE:HB3	1.81	0.62
54:m8:165:ILE:HD12	54:m8:167:SER:O	2.00	0.62
1:2:824:G:O6	1:2:848:C:N4	2.31	0.62
1:2:1650:U:H2'	1:2:1651:A:C8	2.34	0.62
18:C6:11:GLY:HA2	18:C6:83:GLN:HE21	1.65	0.62
36:1:2623:G:H2'	36:1:2624:G:C8	2.34	0.62
10:s8:12:SER:O	10:s8:15:GLY:N	2.20	0.62
36:5:686:G:OP2	49:m3:39:ARG:NH2	2.33	0.62
36:5:1564:U:H2'	36:5:1565:G:H8	1.63	0.62
36:5:2584:G:N3	45:l8:240:ASN:ND2	2.47	0.62
37:7:101:G:OP2	56:n0:52:LYS:NZ	2.33	0.62
60:n4:109:LEU:O	60:n4:113:LYS:HB2	2.00	0.62
62:n6:45:ILE:HD11	62:n6:122:LYS:HD3	1.80	0.62
70:o4:58:ARG:HG3	70:o4:58:ARG:HH11	1.63	0.62
72:o6:54:GLU:HG2	72:o6:90:MET:HE1	1.82	0.62
1:2:57:G:O6	86:2:2045:OHX:N3	2.31	0.62
1:2:856:A:H1'	9:S7:64:VAL:HG11	1.81	0.62
1:2:1642:G:O6	86:2:2023:OHX:N6	2.32	0.62
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.82	0.62
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.33	0.62
11:S9:129:ILE:HA	11:S9:134:ILE:HD12	1.82	0.62
12:C0:6:GLU:O	12:C0:10:LYS:HG3	2.00	0.62
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.63	0.62
36:1:176:G:O6	36:1:242:C:N4	2.32	0.62
36:1:764:U:O4	86:1:3955:OHX:N5	2.31	0.62
36:1:2442:G:N2	36:1:2505:U:H3	1.98	0.62
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.47	0.62
41:L4:60:THR:HG21	41:L4:77:VAL:HG22	1.82	0.62
1:6:1105:C:OP2	25:d3:14:LYS:NZ	2.31	0.62
1:6:1699:G:H22	1:6:1702:A:H5''	1.65	0.62
28:d6:10:ARG:HD3	28:d6:34:LYS:HA	1.80	0.62
34:sR:216:LYS:HA	34:sR:239:GLU:HG3	1.82	0.62
36:5:210:U:C2	36:5:230:U:H4'	2.34	0.62
36:5:1497:C:H2'	36:5:1498:A:C8	2.31	0.62
38:8:126:A:O2'	38:8:128:U:OP2	2.16	0.62
78:q2:12:CYS:SG	78:q2:17:CYS:CB	2.86	0.62
78:q2:73:GLU:OE1	78:q2:80:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:60:SER:OG	23:D1:15:ARG:NH2	2.33	0.62
35:SM:47:ALA:HB2	36:1:2678:A:C8	2.35	0.62
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	1.82	0.62
42:L5:115:LEU:HD22	42:L5:115:LEU:H	1.64	0.62
46:L9:22:SER:OG	46:L9:23:ARG:N	2.32	0.62
56:N0:66:GLU:OE1	56:N0:99:ARG:N	2.26	0.62
68:O2:96:ILE:HG21	68:O2:105:ARG:HG2	1.81	0.62
1:6:27:U:H2'	1:6:28:A:H8	1.63	0.62
1:6:580:A:O2'	1:6:582:U:OP1	2.18	0.62
36:5:299:G:N7	86:5:4184:OHX:N1	2.48	0.62
36:5:1266:G:O6	36:5:1275:C:N4	2.27	0.62
36:5:1307:G:O2'	36:5:1308:A:N7	2.31	0.62
36:5:2696:A:H2'	36:5:2697:A:C8	2.35	0.62
36:5:3089:C:H2'	36:5:3090:U:O4'	2.00	0.62
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.82	0.62
52:m6:185:ALA:O	52:m6:188:SER:N	2.33	0.62
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.81	0.62
1:2:635:A:H2'	1:2:636:A:C8	2.35	0.62
1:2:635:A:H2'	1:2:636:A:H8	1.65	0.62
9:S7:74:GLN:O	9:S7:78:THR:OG1	2.16	0.62
26:D4:5:VAL:O	26:D4:6:THR:OG1	2.11	0.62
33:E1:97:LYS:HE2	33:E1:98:VAL:HG12	1.81	0.62
36:1:2396:G:OP1	36:1:2397:A:H4'	2.00	0.62
36:1:2902:A:OP1	46:L9:170:LYS:NZ	2.33	0.62
42:L5:105:ILE:O	42:L5:109:THR:HG23	1.99	0.62
56:N0:12:ARG:HH12	56:N0:15:PRO:HG3	1.64	0.62
1:6:538:A:H2	1:6:540:G:H22	1.48	0.62
36:5:135:C:O2'	71:o5:95:PHE:N	2.30	0.62
36:5:953:G:OP1	65:n9:12:GLN:NE2	2.33	0.62
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.32	0.62
37:7:114:U:H2'	37:7:115:G:H8	1.65	0.62
44:l7:88:ARG:NH1	44:l7:91:GLY:O	2.33	0.62
46:l9:136:PHE:CE2	46:l9:144:ILE:HG12	2.35	0.62
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.81	0.61
14:C2:131:ASP:HB2	14:C2:132:GLU:CD	2.25	0.61
17:C5:75:PRO:HA	17:C5:93:VAL:HG12	1.81	0.61
20:C8:33:THR:HA	20:C8:38:VAL:HG23	1.82	0.61
36:1:2123:G:N7	86:1:4195:OHX:N2	2.48	0.61
36:1:2261:G:O2'	36:1:2263:C:N4	2.33	0.61
36:1:3155:U:H3'	36:1:3156:U:H4'	1.82	0.61
1:6:1471:A:H62	1:6:1538:U:H3	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:4:PRO:HG3	23:d1:42:GLU:H	1.65	0.61
12:c0:27:PHE:HB3	12:c0:40:LEU:HD23	1.82	0.61
36:5:22:G:H1'	38:8:104:A:N3	2.14	0.61
36:5:145:G:OP2	45:l8:193:LYS:NZ	2.31	0.61
36:5:994:G:O2'	36:5:1053:A:N6	2.24	0.61
36:5:1062:A:H5''	36:5:1063:G:H5'	1.80	0.61
36:5:1530:U:OP1	86:5:3984:OHX:N1	2.33	0.61
36:5:2896:A:OP1	76:q0:102:ARG:NE	2.31	0.61
36:5:2993:G:H2'	36:5:3142:A:N6	2.14	0.61
43:l6:175:LYS:HE3	50:m4:111:ALA:HA	1.82	0.61
53:m7:70:THR:OG1	53:m7:72:GLN:N	2.28	0.61
1:2:1212:G:O6	86:2:2029:OHX:N3	2.33	0.61
1:2:1773:C:OP1	77:Q1:3:ALA:HB3	2.00	0.61
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.65	0.61
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.64	0.61
36:1:121:A:C6	45:L8:129:PRO:HG3	2.36	0.61
36:1:1115:G:O6	86:1:3957:OHX:N6	2.33	0.61
36:1:1383:G:O6	86:1:3873:OHX:N3	2.33	0.61
36:1:1789:G:O6	86:1:4165:OHX:N4	2.33	0.61
37:3:28:C:OP2	42:L5:57:ASN:ND2	2.33	0.61
50:M4:23:ILE:HD13	50:M4:63:VAL:HG23	1.82	0.61
56:N0:30:PHE:CE2	56:N0:103:VAL:HG21	2.35	0.61
1:6:138:A:N6	1:6:266:A:H61	1.98	0.61
1:6:217:A:C8	1:6:218:A:C8	2.88	0.61
1:6:383:G:N7	86:6:2149:OHX:N5	2.47	0.61
1:6:486:G:O6	1:6:488:G:N2	2.31	0.61
1:6:895:G:H2'	1:6:896:U:C6	2.35	0.61
1:6:1480:G:OP1	21:c9:60:SER:OG	2.18	0.61
8:s6:1:MET:HE1	8:s6:106:LEU:HB2	1.81	0.61
33:e1:80:ARG:NH1	33:e1:80:ARG:HB2	2.15	0.61
36:5:945:C:OP1	68:o2:33:ARG:HG3	2.01	0.61
36:5:2697:A:H2'	36:5:2698:G:H8	1.63	0.61
43:l6:55:LEU:HD11	43:l6:66:SER:HB2	1.81	0.61
44:l7:186:HIS:O	44:l7:190:THR:HG23	2.00	0.61
52:m6:27:LEU:HD22	52:m6:101:ARG:HB2	1.82	0.61
55:m9:89:LEU:HD12	55:m9:90:PRO:HD2	1.83	0.61
69:o3:26:ASN:HA	69:o3:88:ASN:OD1	2.01	0.61
1:2:607:G:H5'	1:2:613:G:N2	2.16	0.61
9:S7:141:ARG:HH21	9:S7:143:LEU:HD11	1.64	0.61
39:L2:29:LEU:O	39:L2:123:ARG:NE	2.29	0.61
64:N8:76:ASP:HB2	64:N8:115:LYS:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:18:LEU:HD21	75:O9:51:ILE:HB	1.80	0.61
1:6:346:G:H5'	13:c1:79:LYS:HB3	1.82	0.61
5:s3:64:ARG:O	5:s3:66:ILE:N	2.33	0.61
7:s5:25:LEU:HB2	18:c6:27:GLY:O	2.01	0.61
8:s6:181:PRO:HA	8:s6:184:LEU:HD12	1.81	0.61
20:c8:120:ARG:HG2	35:sM:61:ILE:HG21	1.82	0.61
36:5:209:A:H4'	36:5:211:A:N7	2.15	0.61
36:5:499:G:H2'	36:5:500:C:H6	1.65	0.61
36:5:2310:U:OP1	86:5:4193:OHX:N2	2.34	0.61
45:l8:108:ARG:O	45:l8:112:GLU:N	2.24	0.61
5:S3:58:VAL:O	5:S3:65:ARG:HB3	2.00	0.61
7:S5:84:LYS:HD3	7:S5:92:ARG:HH22	1.65	0.61
16:C4:29:HIS:ND1	16:C4:29:HIS:O	2.32	0.61
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.35	0.61
36:1:662:U:OP1	64:N8:8:THR:HG21	1.99	0.61
36:1:3165:A:H61	36:1:3285:C:H42	1.46	0.61
40:L3:56:ILE:HG12	40:L3:356:LEU:HD22	1.81	0.61
41:L4:140:HIS:H	41:L4:180:LYS:HE3	1.65	0.61
51:M5:116:LEU:HD23	51:M5:133:ILE:HD11	1.82	0.61
1:6:282:C:H2'	1:6:283:U:O4'	2.00	0.61
16:c4:28:VAL:HB	16:c4:67:VAL:HG21	1.80	0.61
36:5:211:A:OP1	41:l4:220:ARG:NH1	2.32	0.61
37:7:104:A:H5''	37:7:105:C:OP2	1.99	0.61
40:l3:81:THR:HG23	40:l3:205:VAL:HG21	1.81	0.61
47:m0:72:ALA:HB2	47:m0:155:ALA:HB2	1.82	0.61
50:m4:128:ARG:HH11	50:m4:128:ARG:HB3	1.65	0.61
54:m8:44:PHE:CD2	54:m8:134:GLY:HA3	2.35	0.61
78:q2:77:CYS:O	78:q2:79:THR:N	2.33	0.61
1:2:905:A:H5''	16:C4:52:ARG:HD3	1.82	0.61
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.82	0.61
7:S5:128:ASN:HB2	7:S5:131:GLN:HB3	1.81	0.61
18:C6:21:HIS:HB2	18:C6:66:ARG:HB3	1.82	0.61
19:C7:108:ASP:HA	19:C7:111:LYS:HD3	1.83	0.61
36:1:119:U:C2	45:L8:138:HIS:CE1	2.89	0.61
36:1:1413:G:N7	86:1:4118:OHX:N4	2.48	0.61
36:1:1727:G:OP1	79:Q3:44:LYS:NZ	2.31	0.61
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.00	0.61
59:N3:120:LYS:HD3	59:N3:121:GLU:HG3	1.81	0.61
67:O1:12:TYR:O	67:O1:72:ARG:HD2	2.00	0.61
6:s4:233:LYS:O	6:s4:233:LYS:NZ	2.26	0.61
34:sR:38:ARG:HG2	34:sR:67:ILE:HG23	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:72:THR:HG23	34:sR:81:LEU:HB2	1.81	0.61
34:sR:123:ILE:HG21	34:sR:169:ILE:HG21	1.82	0.61
36:5:2588:U:OP1	45:l8:48:ARG:NH2	2.33	0.61
36:5:3165:A:N6	36:5:3285:C:H42	1.95	0.61
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.08	0.61
51:m5:21:PHE:O	51:m5:25:VAL:HG23	2.01	0.61
64:n8:116:GLY:O	64:n8:137:LYS:NZ	2.32	0.61
5:S3:64:ARG:O	5:S3:66:ILE:N	2.34	0.61
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.29	0.61
36:1:7:C:H2'	36:1:8:C:C6	2.36	0.61
36:1:1103:A:N3	36:1:1103:A:H2'	2.16	0.61
36:1:1235:U:H4'	36:1:1236:G:H5'	1.82	0.61
36:1:1581:C:O2	36:1:1582:C:H5'	2.00	0.61
36:1:1780:G:H2'	36:1:1781:C:H6	1.65	0.61
36:1:2528:G:N7	86:1:4180:OHX:N3	2.48	0.61
36:1:2899:C:C5	46:L9:171:ASP:HA	2.35	0.61
45:L8:194:THR:OG1	45:L8:195:SER:N	2.32	0.61
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.82	0.61
56:N0:90:MET:HE1	56:N0:114:HIS:CE1	2.36	0.61
1:6:386:G:H2'	1:6:387:A:C8	2.34	0.61
1:6:587:C:H2'	1:6:588:U:O4'	2.00	0.61
1:6:967:A:OP2	15:c3:124:ARG:NH2	2.34	0.61
2:s0:36:TYR:OH	23:d1:66:ASP:OD2	2.13	0.61
22:d0:103:ILE:HA	22:d0:106:ILE:HG22	1.83	0.61
30:d8:44:VAL:HG21	30:d8:48:VAL:HG21	1.81	0.61
36:5:223:U:O4	86:5:4239:OHX:N4	2.34	0.61
36:5:3204:C:H2'	36:5:3205:G:C8	2.35	0.61
86:5:3966:OHX:N3	86:5:4238:OHX:N5	2.49	0.61
38:8:113:U:O2'	38:8:114:G:OP2	2.14	0.61
42:l5:22:ARG:NH1	42:l5:28:THR:OG1	2.34	0.61
45:l8:150:LEU:HD23	45:l8:176:PRO:HB2	1.82	0.61
53:m7:127:ARG:HB3	53:m7:139:TYR:O	2.00	0.61
56:n0:139:TYR:HD2	56:n0:140:VAL:HG23	1.66	0.61
78:q2:71:ARG:HH21	78:q2:80:ARG:NH1	1.96	0.61
81:p0:48:ARG:HG2	81:p0:91:GLU:HB2	1.82	0.61
1:2:161:U:OP2	8:S6:87:ARG:NH2	2.33	0.61
1:2:1358:G:H2'	1:2:1359:C:C6	2.36	0.61
1:2:1479:A:H2'	1:2:1480:G:H8	1.65	0.61
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.65	0.61
6:S4:242:LYS:HE3	6:S4:242:LYS:N	2.16	0.61
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1060:U:H2'	36:1:1061:A:H8	1.65	0.61
36:1:3349:C:H42	36:1:3356:G:H1	1.49	0.61
37:3:49:G:C5	42:L5:58:LYS:HG3	2.35	0.61
40:L3:122:TRP:CE2	40:L3:127:LYS:HE3	2.36	0.61
51:M5:140:LYS:NZ	71:O5:96:GLU:OE2	2.33	0.61
1:6:151:G:H21	8:s6:13:GLN:CD	2.07	0.61
1:6:782:U:H5''	1:6:782:U:O2	2.00	0.61
1:6:1504:G:OP1	21:c9:97:SER:OG	2.16	0.61
2:s0:118:PRO:HG2	2:s0:141:ILE:HD13	1.81	0.61
6:s4:95:THR:HG23	6:s4:97:GLU:HG3	1.83	0.61
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.81	0.61
36:5:291:C:OP1	51:m5:68:ARG:HG3	1.99	0.61
36:5:1024:G:N2	36:5:1026:A:OP2	2.34	0.61
36:5:1355:A:H4'	36:5:1356:U:O5'	2.00	0.61
36:5:1487:G:H1'	70:o4:6:THR:HG21	1.82	0.61
36:5:1783:U:H2'	36:5:1784:G:C8	2.36	0.61
36:5:2239:G:N7	86:5:4187:OHX:N5	2.49	0.61
48:m1:10:ARG:HA	48:m1:134:PRO:HD2	1.81	0.61
1:2:778:G:H3'	1:2:780:A:H2	1.64	0.61
1:2:1482:C:OP2	1:2:1521:G:N2	2.31	0.61
1:2:1660:A:H2'	1:2:1661:U:H6	1.65	0.61
13:C1:90:TYR:CE1	13:C1:103:ARG:HB2	2.36	0.61
15:C3:127:ARG:O	15:C3:131:THR:OG1	2.18	0.61
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.82	0.61
36:1:2192:C:O2'	36:1:2312:A:N1	2.29	0.61
36:1:2960:C:H2'	36:1:2961:G:C8	2.35	0.61
36:1:2970:C:H4'	36:1:2971:A:N6	2.15	0.61
36:1:3181:C:H2'	36:1:3182:G:C8	2.36	0.61
51:M5:38:ARG:NH2	51:M5:60:VAL:HG22	2.15	0.61
56:N0:29:ILE:HD12	56:N0:40:ARG:HB3	1.82	0.61
62:N6:56:VAL:HG21	62:N6:104:LEU:HD13	1.83	0.61
66:O0:99:ASP:HB2	66:O0:103:THR:HG23	1.83	0.61
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.81	0.61
2:s0:72:ASP:OD1	4:s2:40:LYS:NZ	2.34	0.61
11:s9:47:PHE:CZ	11:s9:51:LYS:HD3	2.35	0.61
36:5:136:G:H2'	36:5:137:G:H8	1.65	0.61
36:5:2217:U:H2'	36:5:2218:G:C8	2.36	0.61
36:5:2722:U:H2'	36:5:2723:U:H6	1.64	0.61
36:5:3066:U:O4	86:5:4100:OHX:N4	2.34	0.61
86:5:3935:OHX:N2	86:5:4228:OHX:N4	2.48	0.61
86:5:3935:OHX:N2	86:5:4228:OHX:N6	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:5:3935:OHX:N5	86:5:4228:OHX:N3	2.49	0.61
47:m0:143:SER:O	47:m0:143:SER:OG	2.18	0.61
48:m1:52:TYR:HA	48:m1:61:ARG:HG3	1.83	0.61
59:n3:127:PRO:O	59:n3:131:SER:N	2.33	0.61
63:n7:136:PHE:HB2	70:o4:88:ARG:HG3	1.82	0.61
81:p0:205:THR:O	81:p0:207:GLU:N	2.30	0.61
1:2:585:A:N6	1:2:586:G:O6	2.33	0.61
1:2:1323:C:H2'	1:2:1324:G:O4'	2.00	0.61
1:2:1606:C:H2'	1:2:1607:G:C8	2.36	0.61
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	1.81	0.61
25:D3:19:ARG:O	25:D3:22:ASN:N	2.34	0.61
25:D3:56:LYS:HD2	25:D3:97:ASP:HA	1.81	0.61
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.83	0.61
36:1:884:A:OP1	73:O7:5:THR:OG1	2.13	0.61
36:1:3330:A:H2'	36:1:3331:U:H6	1.65	0.61
51:M5:184:LYS:H	51:M5:186:GLY:H	1.49	0.61
73:O7:58:THR:O	73:O7:61:THR:HG23	1.99	0.61
79:Q3:30:GLU:HA	79:Q3:33:GLN:OE1	2.00	0.61
1:6:488:G:H1'	1:6:500:C:H42	1.66	0.61
1:6:1166:A:H2'	1:6:1167:G:O4'	2.01	0.61
2:s0:190:ASP:O	2:s0:192:THR:N	2.33	0.61
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.83	0.61
14:c2:75:VAL:HG21	14:c2:120:VAL:HG21	1.83	0.61
52:m6:138:LEU:O	52:m6:141:LEU:N	2.33	0.61
57:n1:82:ASN:HB3	65:n9:16:ALA:HB1	1.81	0.61
1:2:1147:A:H2'	1:2:1148:C:C6	2.34	0.61
1:2:1335:U:OP1	22:D0:85:ARG:NH1	2.34	0.61
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.83	0.61
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.14	0.61
11:S9:149:ARG:O	11:S9:151:ASP:N	2.31	0.61
12:C0:23:ALA:HB3	12:C0:64:TYR:HB2	1.81	0.61
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.34	0.61
26:D4:52:LYS:O	26:D4:55:VAL:N	2.34	0.61
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.66	0.61
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.33	0.61
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.33	0.61
40:L3:296:THR:H	40:L3:299:ASP:HB3	1.66	0.61
45:L8:90:THR:HA	45:L8:214:LEU:HD21	1.82	0.61
33:e1:144:CYS:O	33:e1:146:SER:N	2.34	0.61
36:5:2217:U:H2'	36:5:2218:G:H8	1.65	0.61
64:n8:112:ILE:HB	64:n8:130:VAL:HG12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:o1:88:PRO:HG2	67:o1:89:LEU:HD12	1.83	0.61
1:2:1680:G:O6	86:2:2109:OHX:N5	2.34	0.60
5:S3:105:MET:HG3	5:S3:122:VAL:HG21	1.82	0.60
7:S5:112:ARG:NH1	18:C6:43:ILE:HD11	2.16	0.60
36:1:138:U:H2'	36:1:139:G:C8	2.36	0.60
36:1:518:G:N7	36:1:572:A:N6	2.45	0.60
36:1:3353:G:O2'	36:1:3356:G:OP2	2.19	0.60
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.01	0.60
50:M4:65:LEU:HB2	56:N0:172:TYR:CE1	2.36	0.60
63:N7:95:VAL:HG13	63:N7:110:ALA:HB1	1.83	0.60
70:O4:44:CYS:SG	70:O4:81:CYS:HB3	2.41	0.60
72:O6:95:ALA:HA	72:O6:99:ARG:HB2	1.83	0.60
1:6:1004:U:H3'	1:6:1005:A:H5''	1.83	0.60
1:6:1471:A:OP1	7:s5:185:ARG:NH1	2.33	0.60
15:c3:5:HIS:CE1	15:c3:121:ARG:HG3	2.35	0.60
17:c5:87:PRO:HA	17:c5:90:ILE:HG13	1.82	0.60
26:d4:62:THR:HA	26:d4:69:SER:HA	1.82	0.60
34:sR:289:ALA:HA	34:sR:305:TYR:HA	1.83	0.60
36:5:1096:U:H4'	36:5:1097:G:O5'	2.01	0.60
36:5:2436:U:H2'	36:5:2437:G:H5'	1.83	0.60
36:5:2908:G:N7	86:5:3895:OHX:N2	2.49	0.60
38:8:24:G:OP2	62:n6:13:ARG:HD3	2.00	0.60
41:l4:193:LYS:O	41:l4:198:ARG:HG2	2.01	0.60
79:q3:73:THR:HG22	79:q3:75:ALA:H	1.66	0.60
1:2:1132:A:OP1	25:D3:30:LYS:HE2	2.01	0.60
7:S5:121:ILE:HD11	7:S5:198:LEU:HD13	1.83	0.60
14:C2:76:GLU:OE2	14:C2:90:LYS:NZ	2.34	0.60
33:E1:109:ASP:O	33:E1:111:GLU:N	2.34	0.60
37:3:101:G:OP2	56:N0:52:LYS:NZ	2.34	0.60
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.01	0.60
43:L6:164:SER:OG	69:O3:4:SER:HB2	2.00	0.60
48:M1:9:MET:O	48:M1:9:MET:HG3	2.00	0.60
57:N1:45:ASN:OD1	57:N1:47:SER:OG	2.12	0.60
1:6:1650:U:H2'	1:6:1651:A:C8	2.36	0.60
36:5:1744:G:O6	86:5:4095:OHX:N1	2.34	0.60
36:5:2722:U:H2'	36:5:2723:U:C6	2.36	0.60
41:l4:346:LYS:HD2	41:l4:347:THR:H	1.65	0.60
42:l5:211:LEU:O	42:l5:215:ASP:N	2.33	0.60
42:l5:270:LYS:HG3	42:l5:273:ARG:CB	2.31	0.60
44:l7:229:PHE:C	44:l7:229:PHE:CD1	2.79	0.60
51:m5:143:ARG:NH2	71:o5:92:LEU:HD23	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:o0:25:LEU:HD22	66:o0:87:VAL:HG21	1.84	0.60
69:o3:72:THR:HG23	69:o3:83:ALA:HA	1.82	0.60
1:2:792:U:C2'	1:2:793:A:H5'	2.30	0.60
86:2:2031:OHX:N3	86:2:2146:OHX:N1	2.48	0.60
15:C3:88:LEU:O	15:C3:92:ILE:HG13	2.00	0.60
21:C9:42:GLY:HA2	21:C9:84:LYS:HG3	1.82	0.60
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.17	0.60
36:1:1743:G:H2'	36:1:1744:G:H8	1.66	0.60
36:1:2921:U:H2'	36:1:2923:U:OP2	2.01	0.60
36:1:3164:C:H1'	36:1:3165:A:H5'	1.83	0.60
38:4:124:G:H1	38:4:129:C:H42	1.47	0.60
48:M1:38:GLU:C	48:M1:40:LEU:H	2.09	0.60
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.83	0.60
58:N2:17:VAL:HG22	58:N2:103:TYR:HB2	1.83	0.60
1:6:151:G:N2	8:s6:13:GLN:HE22	1.99	0.60
1:6:1533:C:H4'	1:6:1539:G:N1	2.16	0.60
8:s6:98:ARG:NE	8:s6:105:ASP:OD1	2.31	0.60
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.36	0.60
31:d9:33:LYS:HD3	31:d9:34:TYR:CZ	2.36	0.60
36:5:3181:C:H2'	36:5:3182:G:C8	2.35	0.60
44:l7:165:ASP:OD2	44:l7:166:ASN:N	2.33	0.60
48:m1:100:GLY:HA3	48:m1:154:THR:HB	1.82	0.60
49:m3:92:THR:O	49:m3:92:THR:OG1	2.18	0.60
1:2:574:G:O6	25:D3:65:ASN:ND2	2.33	0.60
1:2:912:U:H5'	1:2:913:G:H2'	1.83	0.60
13:C1:92:HIS:CD2	13:C1:93:TYR:H	2.19	0.60
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.82	0.60
36:1:1554:U:H4'	36:1:1555:U:H5'	1.82	0.60
44:L7:42:ALA:O	44:L7:45:LEU:N	2.34	0.60
49:M3:165:SER:OG	49:M3:167:PHE:HB3	2.01	0.60
54:M8:180:ARG:NH1	54:M8:185:LYS:HB3	2.14	0.60
59:N3:18:PRO:HA	59:N3:51:ALA:HA	1.81	0.60
1:6:151:G:N2	1:6:163:G:N2	2.49	0.60
1:6:339:C:OP2	10:s8:10:LYS:HE2	2.02	0.60
1:6:737:A:H2'	1:6:738:G:C8	2.37	0.60
8:s6:4:ASN:HA	8:s6:15:THR:HG22	1.82	0.60
9:s7:70:PHE:O	9:s7:74:GLN:HB2	2.02	0.60
12:c0:32:HIS:CG	12:c0:33:GLU:H	2.19	0.60
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.81	0.60
26:d4:81:GLU:O	26:d4:85:PHE:N	2.32	0.60
36:5:296:A:OP1	72:o6:86:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:796:U:H2'	36:5:797:U:C6	2.36	0.60
36:5:1778:G:O2'	36:5:1780:G:OP2	2.17	0.60
36:5:1863:G:N1	36:5:1866:C:OP2	2.34	0.60
36:5:1874:A:N7	55:m9:20:ARG:NH2	2.48	0.60
36:5:2249:G:OP1	86:5:4193:OHX:N6	2.34	0.60
39:l2:105:GLY:HA2	39:l2:139:HIS:CE1	2.36	0.60
53:m7:88:VAL:HG12	53:m7:92:GLN:HG3	1.82	0.60
61:n5:132:ALA:O	61:n5:136:ALA:N	2.33	0.60
3:S1:142:PHE:O	3:S1:208:GLN:N	2.33	0.60
6:S4:129:VAL:HB	6:S4:139:VAL:HG12	1.83	0.60
6:S4:191:ARG:NH1	6:S4:245:LYS:HD3	2.16	0.60
36:1:595:G:C8	36:1:609:G:C6	2.89	0.60
37:3:71:G:H2'	37:3:72:A:H8	1.64	0.60
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.19	0.60
64:N8:74:ASN:CG	64:N8:115:LYS:HB2	2.26	0.60
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.82	0.60
68:O2:21:HIS:ND1	68:O2:24:ARG:HD2	2.15	0.60
1:6:874:C:OP1	86:s1:302:OHX:N1	2.34	0.60
1:6:1316:G:O2'	1:6:1401:A:O2'	2.19	0.60
2:s0:41:ARG:HH11	2:s0:45:VAL:HG21	1.66	0.60
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	1.84	0.60
36:5:1858:A:O2'	36:5:1859:A:OP2	2.19	0.60
36:5:1934:G:O6	86:5:3908:OHX:N2	2.34	0.60
36:5:2680:A:C4	48:m1:57:PHE:HD2	2.18	0.60
36:5:3194:C:C2	36:5:3197:G:N2	2.69	0.60
41:l4:362:ASP:H	56:n0:26:ARG:HH12	1.48	0.60
44:l7:116:PHE:HB2	44:l7:199:ASN:OD1	2.02	0.60
65:n9:20:GLY:O	65:n9:21:ILE:HB	2.02	0.60
69:o3:72:THR:HG21	69:o3:84:THR:HG23	1.83	0.60
1:2:190:C:O2'	1:2:191:C:OP2	2.13	0.60
1:2:590:C:H5''	32:E0:43:ARG:HH12	1.66	0.60
1:2:1239:U:O2	1:2:1246:C:N4	2.35	0.60
1:2:1350:U:H2'	1:2:1351:G:C8	2.35	0.60
5:S3:107:PHE:O	5:S3:111:ASN:ND2	2.35	0.60
6:S4:51:ARG:HB3	6:S4:111:VAL:HG22	1.83	0.60
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.82	0.60
36:1:2413:A:H2'	36:1:2414:G:C8	2.36	0.60
42:L5:52:VAL:HG22	42:L5:147:ASP:HB3	1.83	0.60
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.82	0.60
52:M6:27:LEU:HD11	52:M6:102:LEU:HB2	1.84	0.60
52:M6:113:ASP:OD1	52:M6:114:LYS:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:197:A:N1	10:s8:138:ASN:ND2	2.49	0.60
1:6:1555:A:P	17:c5:47:ARG:HH21	2.25	0.60
2:s0:14:ALA:HA	2:s0:17:LEU:HD12	1.83	0.60
18:c6:82:ARG:HH12	18:c6:114:ARG:HB2	1.65	0.60
36:5:581:U:O4	86:5:4017:OHX:N6	2.35	0.60
36:5:720:A:C2	36:5:784:A:H5'	2.36	0.60
36:5:999:G:C6	36:5:1000:C:N4	2.69	0.60
36:5:1494:U:OP1	75:o9:44:TRP:HB3	2.02	0.60
36:5:1591:G:OP1	70:o4:37:LYS:NZ	2.28	0.60
36:5:3112:G:O2'	46:l9:70:THR:HB	2.00	0.60
36:5:3337:G:H2'	36:5:3338:C:C6	2.37	0.60
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	1.84	0.60
43:l6:89:THR:HG21	50:m4:115:PHE:HB2	1.82	0.60
47:m0:4:ARG:NH2	47:m0:99:ILE:HG22	2.17	0.60
58:n2:49:ASN:O	58:n2:51:GLY:N	2.34	0.60
1:2:1104:U:OP1	25:D3:14:LYS:NZ	2.35	0.60
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.34	0.60
36:1:1334:U:OP1	44:L7:206:LYS:HE3	2.02	0.60
47:M0:174:THR:HG22	47:M0:176:LEU:H	1.66	0.60
51:M5:44:ARG:HB3	51:M5:47:LYS:HB3	1.83	0.60
53:M7:48:LEU:HD13	53:M7:88:VAL:HG13	1.83	0.60
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.32	0.60
75:O9:23:LEU:O	75:O9:25:GLN:NE2	2.34	0.60
1:6:53:G:H1	1:6:427:C:H42	1.49	0.60
1:6:615:A:O2'	1:6:621:A:N1	2.29	0.60
9:s7:103:SER:OG	9:s7:104:ARG:N	2.31	0.60
11:s9:131:GLN:O	11:s9:132:ARG:HG2	2.01	0.60
31:d9:6:VAL:O	31:d9:8:PHE:N	2.34	0.60
36:5:2387:A:C2	36:5:2388:U:H1'	2.37	0.60
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.67	0.60
51:m5:11:GLN:O	51:m5:14:LYS:NZ	2.35	0.60
51:m5:24:ARG:HH11	51:m5:24:ARG:HG2	1.67	0.60
51:m5:65:ARG:HB3	51:m5:127:TYR:CD1	2.34	0.60
51:m5:98:LEU:HD22	51:m5:128:LYS:HZ3	1.67	0.60
52:m6:157:GLU:OE1	52:m6:160:ARG:NH1	2.34	0.60
53:m7:48:LEU:HD22	53:m7:88:VAL:HG13	1.84	0.60
1:2:1022:C:O2'	1:2:1125:A:N1	2.34	0.60
1:2:1498:G:OP1	21:C9:75:LYS:HD3	2.02	0.60
30:D8:52:ASP:OD1	30:D8:52:ASP:N	2.34	0.60
36:1:873:C:H5''	36:1:874:U:O5'	2.02	0.60
36:1:1134:G:O2'	36:1:2642:A:N3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1456:A:N7	67:O1:26:LYS:NZ	2.49	0.60
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.34	0.60
46:L9:129:ARG:HD2	46:L9:157:ASN:HB2	1.83	0.60
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.36	0.60
53:M7:116:HIS:NE2	53:M7:147:GLU:OE2	2.31	0.60
54:M8:80:THR:HG22	54:M8:100:THR:HB	1.82	0.60
57:N1:14:MET:HE1	57:N1:55:LYS:HB2	1.82	0.60
67:O1:44:MET:HB3	67:O1:77:ARG:HD3	1.84	0.60
1:6:491:C:N4	1:6:496:G:O6	2.35	0.60
1:6:511:A:H5''	11:s9:172:VAL:HG22	1.84	0.60
24:d2:96:ALA:HB3	24:d2:99:PHE:CE1	2.37	0.60
80:e0:16:SER:OG	80:e0:17:GLN:N	2.34	0.60
36:5:29:C:O3'	51:m5:172:ARG:NH1	2.35	0.60
36:5:1110:U:H2'	36:5:1111:U:C6	2.36	0.60
36:5:2807:U:O2'	36:5:2809:C:OP1	2.15	0.60
36:5:2964:G:N7	86:5:3975:OHX:N6	2.50	0.60
45:l8:86:THR:O	45:l8:90:THR:HG23	2.01	0.60
46:l9:176:LEU:O	46:l9:180:TYR:OH	2.20	0.60
70:o4:109:THR:HA	70:o4:112:ALA:HB3	1.84	0.60
1:2:73:U:H1'	1:2:74:U:H5'	1.84	0.60
3:S1:61:LEU:O	3:S1:62:LYS:NZ	2.27	0.60
14:C2:61:VAL:HG22	14:C2:97:LEU:HD11	1.81	0.60
19:C7:32:LYS:HG3	19:C7:47:ARG:HD3	1.84	0.60
20:C8:14:ILE:H	20:C8:24:GLY:H	1.48	0.60
21:C9:65:ILE:HD13	21:C9:71:VAL:HG23	1.84	0.60
36:1:13:A:H5'	36:1:14:U:OP2	2.02	0.60
36:1:2225:U:H2'	36:1:2226:U:C6	2.36	0.60
86:1:4194:OHX:N2	86:O1:202:OHX:N5	2.49	0.60
42:L5:56:THR:O	42:L5:58:LYS:N	2.35	0.60
43:L6:52:VAL:HG11	43:L6:65:ILE:HD12	1.84	0.60
44:L7:27:ALA:O	44:L7:31:ALA:N	2.34	0.60
66:O0:99:ASP:O	66:O0:102:THR:N	2.33	0.60
67:O1:82:GLU:O	67:O1:84:ASP:N	2.34	0.60
78:Q2:104:LEU:HD22	78:Q2:104:LEU:H	1.67	0.60
1:6:1658:G:H5'	1:6:1659:A:OP2	2.01	0.60
4:s2:82:ASN:OD1	4:s2:83:ILE:N	2.35	0.60
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.84	0.60
20:c8:66:LEU:O	20:c8:70:VAL:HG23	2.02	0.60
22:d0:15:GLN:O	22:d0:16:GLN:NE2	2.34	0.60
25:d3:16:ARG:HE	25:d3:20:ARG:HH12	1.47	0.60
28:d6:87:ARG:NH2	28:d6:94:ASN:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:656:A:H2'	36:5:657:A:C8	2.37	0.60
45:l8:156:ASP:OD2	45:l8:156:ASP:N	2.20	0.60
52:m6:130:LYS:HG3	52:m6:131:PRO:HD2	1.83	0.60
68:o2:104:ASN:O	68:o2:108:ILE:HG13	2.01	0.60
1:2:130:C:O2'	1:2:131:C:OP1	2.17	0.60
1:2:209:U:H2'	1:2:210:A:C8	2.37	0.60
1:2:885:G:N2	16:C4:123:SER:HB2	2.14	0.60
1:2:1561:U:H2'	1:2:1562:G:H8	1.67	0.60
4:S2:165:VAL:HG11	4:S2:210:THR:HG23	1.82	0.60
34:SR:37:SER:OG	34:SR:38:ARG:N	2.33	0.60
34:SR:121:MET:SD	34:SR:183:LEU:HD13	2.42	0.60
36:1:918:C:C2'	36:1:919:U:H5'	2.32	0.60
44:L7:180:SER:H	44:L7:183:ASP:HB2	1.66	0.60
47:M0:24:ARG:HH11	47:M0:24:ARG:HG3	1.67	0.60
51:M5:193:ARG:C	51:M5:195:ASN:H	2.10	0.60
72:O6:26:ILE:HG22	72:O6:29:LYS:HD3	1.83	0.60
1:6:374:U:OP1	13:c1:96:LYS:NZ	2.34	0.60
8:s6:14:LYS:HB3	8:s6:124:LEU:HD22	1.84	0.60
10:s8:84:HIS:CE1	10:s8:86:SER:HB2	2.37	0.60
36:5:1232:C:C5	36:5:1261:G:H2'	2.36	0.60
36:5:1952:G:N1	36:5:1953:G:N7	2.50	0.60
86:5:3935:OHX:N5	86:5:4228:OHX:N6	2.50	0.60
38:8:21:C:OP1	41:l4:193:LYS:NZ	2.33	0.60
48:m1:60:ARG:HH11	78:q2:105:GLN:HA	1.66	0.60
49:m3:75:PHE:H	49:m3:97:VAL:HA	1.67	0.60
50:m4:121:MET:O	50:m4:125:LYS:HG2	2.02	0.60
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.36	0.60
68:o2:41:VAL:HG12	68:o2:46:PHE:HB2	1.83	0.60
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.35	0.59
29:D7:37:CYS:O	29:D7:39:GLY:N	2.35	0.59
36:1:677:A:H4'	36:1:678:G:O5'	2.02	0.59
39:L2:152:SER:OG	39:L2:153:GLY:N	2.27	0.59
73:O7:60:GLY:O	86:O7:105:OHX:N6	2.35	0.59
79:Q3:8:VAL:O	79:Q3:11:THR:HB	2.02	0.59
1:6:196:G:N3	1:6:197:A:H1'	2.17	0.59
1:6:477:A:H2'	1:6:478:A:H8	1.66	0.59
1:6:753:A:H62	6:s4:187:ARG:NH2	2.00	0.59
1:6:894:U:H2'	1:6:895:G:C8	2.37	0.59
18:c6:42:GLU:HG3	18:c6:43:ILE:HD13	1.83	0.59
36:5:76:G:N7	49:m3:101:ARG:HB2	2.17	0.59
36:5:1103:A:H3'	36:5:1104:G:C5'	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1284:C:O2'	36:5:1285:G:H5'	2.01	0.59
36:5:3107:U:H2'	36:5:3108:G:H8	1.67	0.59
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.84	0.59
69:o3:58:GLU:HG2	69:o3:62:SER:O	2.01	0.59
78:q2:12:CYS:SG	78:q2:74:CYS:HB2	2.41	0.59
1:2:1153:G:H5'	28:D6:85:ARG:HD2	1.82	0.59
1:2:1535:U:H5''	7:S5:187:ILE:HD11	1.83	0.59
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.84	0.59
20:C8:135:GLY:N	20:C8:136:GLN:OE1	2.35	0.59
36:1:255:A:H2'	36:1:256:G:C8	2.35	0.59
36:1:1352:A:H4'	36:1:1353:U:OP1	2.01	0.59
36:1:2909:U:O2'	36:1:3105:U:O2	2.16	0.59
47:M0:12:GLN:HE21	47:M0:128:ARG:NH1	2.00	0.59
62:N6:57:LEU:HB3	62:N6:105:VAL:HG12	1.84	0.59
73:O7:60:GLY:HA2	73:O7:64:MET:HE2	1.82	0.59
75:O9:3:ALA:O	75:O9:4:GLN:HB2	2.02	0.59
1:6:1535:U:O2'	1:6:1536:G:O5'	2.20	0.59
5:s3:66:ILE:O	5:s3:70:THR:OG1	2.19	0.59
10:s8:171:SER:HB3	10:s8:180:ASP:H	1.67	0.59
18:c6:12:LYS:HG2	18:c6:17:THR:HA	1.83	0.59
18:c6:125:GLU:HG2	18:c6:126:PRO:HD2	1.83	0.59
36:5:600:G:N2	36:5:603:A:OP2	2.34	0.59
36:5:1033:U:H2'	36:5:1034:U:H5'	1.84	0.59
36:5:2557:A:H5''	39:l2:69:TYR:CE1	2.37	0.59
36:5:2785:A:O2'	78:q2:41:ARG:NH2	2.35	0.59
86:5:3935:OHX:N1	86:5:4228:OHX:N4	2.50	0.59
41:l4:269:SER:O	41:l4:269:SER:OG	2.19	0.59
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.84	0.59
51:m5:68:ARG:NH1	51:m5:128:LYS:HE3	2.17	0.59
55:m9:81:ARG:HD3	55:m9:88:ARG:NH1	2.17	0.59
56:n0:138:GLN:O	56:n0:140:VAL:N	2.35	0.59
59:n3:10:LYS:NZ	59:n3:56:ASP:OD1	2.35	0.59
61:n5:86:VAL:HG11	61:n5:95:ILE:HD11	1.84	0.59
67:o1:47:ASP:O	67:o1:49:VAL:HG23	2.02	0.59
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.85	0.59
5:S3:38:GLU:OE1	5:S3:40:ARG:NE	2.35	0.59
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.02	0.59
8:S6:98:ARG:HD3	8:S6:99:GLY:H	1.67	0.59
17:C5:19:GLY:N	20:C8:93:THR:O	2.36	0.59
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.35	0.59
86:1:4194:OHX:N4	86:O1:202:OHX:N1	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.02	0.59
1:6:223:U:H3	1:6:838:G:H1	1.50	0.59
1:6:1555:A:OP2	17:c5:47:ARG:NH2	2.34	0.59
14:c2:31:VAL:HG21	14:c2:136:ILE:HD11	1.83	0.59
36:5:549:U:O4	86:5:4006:OHX:N4	2.34	0.59
36:5:1944:U:H2'	36:5:1945:A:H8	1.68	0.59
36:5:3197:G:H2'	36:5:3198:U:H5''	1.83	0.59
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.02	0.59
57:n1:71:SER:HB2	57:n1:91:LEU:O	2.02	0.59
64:n8:66:ALA:HB1	64:n8:69:TRP:HB2	1.84	0.59
7:S5:40:ILE:HD13	7:S5:42:LEU:HB3	1.83	0.59
7:S5:121:ILE:HA	7:S5:199:ILE:HD11	1.85	0.59
13:C1:99:ARG:HB2	25:D3:12:ALA:HB2	1.84	0.59
14:C2:97:LEU:O	14:C2:101:ALA:N	2.35	0.59
16:C4:125:SER:OG	16:C4:126:THR:N	2.26	0.59
36:1:900:G:H2'	36:1:901:G:C8	2.38	0.59
36:1:1831:U:O2'	38:4:114:G:OP1	2.16	0.59
36:1:2359:C:H2'	36:1:2360:C:C6	2.37	0.59
36:1:3316:A:O2'	36:1:3317:U:OP2	2.18	0.59
41:L4:181:VAL:O	41:L4:183:LYS:N	2.35	0.59
46:L9:47:LYS:HZ2	50:M4:5:SER:HB2	1.65	0.59
50:M4:37:GLU:HG2	50:M4:38:ILE:H	1.67	0.59
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.16	0.59
1:6:169:A:H5'	8:s6:176:GLN:HG2	1.84	0.59
1:6:245:U:O4	86:6:2122:OHX:N4	2.35	0.59
2:s0:41:ARG:HE	2:s0:45:VAL:HG21	1.67	0.59
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.37	0.59
7:s5:41:LYS:HG2	7:s5:69:PHE:CZ	2.38	0.59
9:s7:58:LEU:HB2	9:s7:90:VAL:HG22	1.84	0.59
10:s8:36:THR:HA	10:s8:58:LEU:HA	1.85	0.59
17:c5:92:SER:HB2	17:c5:107:ILE:HD11	1.83	0.59
20:c8:145:ARG:HB3	35:sM:68:ARG:NH1	2.07	0.59
36:5:283:G:O6	36:5:304:G:H1'	2.03	0.59
36:5:1644:C:H5'	36:5:1645:U:H5''	1.83	0.59
36:5:2442:G:H22	36:5:2506:U:H3	1.48	0.59
36:5:2837:A:H8	36:5:2837:A:OP2	1.84	0.59
36:5:2854:U:OP1	47:m0:61:SER:OG	2.19	0.59
36:5:3174:A:H2'	36:5:3175:U:H5'	1.83	0.59
36:5:3224:G:N7	86:5:3991:OHX:N6	2.49	0.59
40:l3:114:VAL:HG22	40:l3:163:HIS:CE1	2.37	0.59
54:m8:165:ILE:HD13	54:m8:166:LEU:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:n2:16:THR:HG23	58:n2:102:GLU:HA	1.85	0.59
1:2:350:U:O2	1:2:352:A:C6	2.56	0.59
1:2:1481:C:O2'	1:2:1482:C:O5'	2.19	0.59
1:2:1765:A:H5'	1:2:1767:G:N7	2.18	0.59
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.85	0.59
5:S3:59:LEU:HA	5:S3:66:ILE:HG13	1.83	0.59
16:C4:19:ILE:HG23	16:C4:28:VAL:HG22	1.83	0.59
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.84	0.59
24:D2:86:ILE:HD12	24:D2:87:GLU:H	1.67	0.59
25:D3:57:LEU:HD11	25:D3:73:ARG:HG3	1.85	0.59
36:1:29:C:H4'	36:1:62:A:H4'	1.85	0.59
36:1:979:U:H1'	36:1:980:A:N9	2.17	0.59
36:1:1234:G:H1	36:1:1254:C:H42	1.48	0.59
36:1:1464:G:OP2	86:1:4194:OHX:N5	2.35	0.59
36:1:2383:C:H2'	36:1:2384:A:H5'	1.83	0.59
36:1:2643:A:H5'	65:N9:6:ASN:ND2	2.17	0.59
41:L4:316:ASN:ND2	44:L7:150:LYS:HG3	2.17	0.59
42:L5:196:ARG:NH2	42:L5:237:GLU:OE2	2.28	0.59
50:M4:134:ALA:O	50:M4:136:ALA:N	2.36	0.59
63:N7:41:ALA:HB2	63:N7:77:TYR:HE1	1.67	0.59
72:O6:9:ILE:HA	72:O6:13:LYS:HG2	1.83	0.59
72:O6:94:ILE:HG22	72:O6:99:ARG:HE	1.68	0.59
76:Q0:97:ARG:HG3	76:Q0:120:GLN:O	2.02	0.59
1:6:95:G:OP1	6:s4:6:LYS:HD3	2.01	0.59
1:6:789:A:OP1	6:s4:108:ARG:NH2	2.36	0.59
11:s9:75:ALA:O	11:s9:78:ARG:HB3	2.01	0.59
15:c3:65:VAL:C	15:c3:67:THR:H	2.10	0.59
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.38	0.59
20:c8:117:LYS:HE2	20:c8:128:PHE:HB2	1.85	0.59
21:c9:65:ILE:HD13	21:c9:114:VAL:HG11	1.84	0.59
36:5:436:A:H8	36:5:436:A:OP2	1.86	0.59
36:5:1080:A:OP2	42:l5:140:ARG:NH2	2.36	0.59
36:5:1345:G:N7	86:5:4060:OHX:N5	2.51	0.59
48:m1:60:ARG:NH1	78:q2:104:LEU:O	2.35	0.59
53:m7:126:ARG:HA	53:m7:140:GLU:HG2	1.85	0.59
57:n1:13:TYR:O	86:n1:201:OHX:N4	2.35	0.59
1:2:260:U:H3'	1:2:261:U:C5'	2.33	0.59
1:2:1031:U:H4'	1:2:1032:G:OP2	2.01	0.59
1:2:1275:A:N3	5:S3:141:LYS:NZ	2.50	0.59
1:2:1483:A:H2'	1:2:1484:G:C8	2.38	0.59
3:S1:128:LYS:NZ	3:S1:132:ASP:HB3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:126:ASP:OD2	8:S6:127:THR:N	2.35	0.59
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.68	0.59
17:C5:110:GLU:HG3	20:C8:119:ILE:HD11	1.84	0.59
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.83	0.59
19:C7:105:GLN:CD	19:C7:105:GLN:H	2.11	0.59
30:D8:25:VAL:HG11	30:D8:66:LEU:HD12	1.85	0.59
36:1:2108:C:H1'	36:1:3344:A:C8	2.38	0.59
42:L5:233:ALA:O	42:L5:235:SER:N	2.35	0.59
1:6:556:A:H4'	80:e0:56:MET:HG2	1.83	0.59
1:6:729:G:O2'	1:6:730:G:O5'	2.20	0.59
1:6:753:A:OP1	6:s4:186:GLY:HA3	2.01	0.59
1:6:1150:G:O6	86:6:2114:OHX:N5	2.35	0.59
1:6:1673:G:OP1	8:s6:94:ARG:NH1	2.26	0.59
4:s2:90:THR:OG1	4:s2:91:ARG:N	2.33	0.59
9:s7:14:THR:HG22	9:s7:17:GLU:OE1	2.03	0.59
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.84	0.59
21:c9:113:ILE:HA	21:c9:128:GLY:HA3	1.83	0.59
23:d1:28:ASP:O	23:d1:31:SER:HB3	2.02	0.59
36:5:567:G:O6	86:5:4126:OHX:N2	2.35	0.59
36:5:2227:C:H2'	36:5:2228:A:C8	2.37	0.59
41:l4:229:ASN:OD1	41:l4:230:VAL:N	2.35	0.59
61:n5:51:VAL:HG22	71:o5:66:VAL:HG21	1.83	0.59
73:o7:21:ARG:HG3	73:o7:39:TYR:CD2	2.37	0.59
1:2:28:A:H2'	1:2:29:U:C6	2.37	0.59
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.83	0.59
4:S2:140:ARG:HB2	4:S2:222:TYR:CE1	2.37	0.59
5:S3:67:ASN:O	5:S3:70:THR:OG1	2.18	0.59
22:D0:52:LYS:HB2	22:D0:92:ASP:O	2.02	0.59
26:D4:25:VAL:N	26:D4:71:GLY:O	2.30	0.59
36:1:735:A:H2'	36:1:736:A:H8	1.66	0.59
36:1:1204:A:H2	36:1:2834:G:N3	2.00	0.59
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.35	0.59
36:1:2960:C:H2'	36:1:2961:G:H8	1.67	0.59
37:3:106:U:H2'	37:3:107:C:C6	2.38	0.59
38:4:137:C:OP2	86:4:234:OHX:N5	2.36	0.59
52:M6:54:TYR:HE2	52:M6:58:LEU:HD13	1.67	0.59
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.85	0.59
1:6:311:U:OP2	25:d3:20:ARG:HD2	2.02	0.59
1:6:761:G:O2'	11:s9:72:GLU:OE2	2.17	0.59
1:6:1335:U:H2'	1:6:1336:A:C8	2.37	0.59
36:5:743:C:O2	54:m8:141:ARG:HD3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1751:G:C8	74:o8:26:LYS:HE3	2.36	0.59
36:5:3242:G:H5''	36:5:3245:A:C8	2.37	0.59
51:m5:190:THR:O	51:m5:194:GLN:HG2	2.03	0.59
1:2:66:U:O2	8:S6:160:ARG:NE	2.35	0.59
1:2:703:G:H2'	1:2:704:C:H5'	1.83	0.59
1:2:1175:U:H2'	1:2:1176:G:C8	2.38	0.59
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.68	0.59
19:C7:33:ARG:HD2	34:SR:109:ASP:OD2	2.03	0.59
21:C9:105:LEU:HB3	21:C9:122:ARG:HH21	1.68	0.59
26:D4:8:ARG:NH1	26:D4:26:ASP:OD1	2.35	0.59
34:SR:179:LYS:HG2	34:SR:191:ASP:OD1	2.03	0.59
36:1:670:C:P	54:M8:147:ARG:NH2	2.75	0.59
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.36	0.59
36:1:3238:G:N7	86:1:3961:OHX:N4	2.51	0.59
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.38	0.59
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.70	0.59
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.85	0.59
51:M5:150:TRP:HZ3	51:M5:156:HIS:CD2	2.20	0.59
54:M8:157:PRO:HG3	64:N8:47:LYS:HB2	1.83	0.59
62:N6:71:SER:OG	62:N6:72:SER:N	2.33	0.59
63:N7:14:VAL:HG13	70:O4:86:LYS:HG2	1.84	0.59
1:6:558:U:OP2	80:e0:55:ARG:NH2	2.36	0.59
1:6:890:C:H2'	1:6:891:A:H8	1.68	0.59
8:s6:156:PHE:O	60:n4:93:ARG:NH1	2.35	0.59
33:e1:86:THR:HG23	33:e1:87:THR:H	1.66	0.59
34:sR:123:ILE:HG22	34:sR:133:VAL:HG22	1.83	0.59
36:5:618:C:H2'	36:5:619:A:C8	2.37	0.59
36:5:1785:U:H2'	36:5:1786:G:C8	2.37	0.59
36:5:2250:G:O6	86:5:3940:OHX:N6	2.36	0.59
37:7:78:U:OP1	86:7:220:OHX:N5	2.35	0.59
44:l7:26:VAL:C	44:l7:28:ALA:H	2.10	0.59
62:n6:32:SER:HA	62:n6:49:PRO:HA	1.85	0.59
67:o1:26:LYS:HE2	67:o1:64:VAL:HG11	1.85	0.59
1:2:1591:C:H2'	1:2:1592:A:C8	2.37	0.59
8:S6:63:MET:HE2	8:S6:106:LEU:HD22	1.85	0.59
9:S7:10:SER:HB3	9:S7:43:PHE:O	2.03	0.59
21:C9:105:LEU:HD13	21:C9:122:ARG:NE	2.18	0.59
36:1:290:G:H2'	36:1:291:C:C6	2.37	0.59
36:1:425:G:O6	86:1:3867:OHX:N6	2.36	0.59
36:1:1593:A:N3	36:1:1615:C:O2'	2.35	0.59
36:1:1942:U:O2'	36:1:3345:G:O2'	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2443:A:O2'	36:1:2444:C:OP2	2.17	0.59
49:M3:170:LEU:HD11	64:N8:147:LEU:HD21	1.85	0.59
13:c1:21:ASN:HB3	13:c1:32:LYS:HD3	1.85	0.59
18:c6:46:PHE:HA	18:c6:49:TYR:HB2	1.85	0.59
20:c8:72:ILE:HA	20:c8:79:TYR:CE2	2.38	0.59
20:c8:116:LEU:HD23	20:c8:116:LEU:H	1.68	0.59
42:l5:134:ALA:HB2	42:l5:141:PRO:HD3	1.84	0.59
60:n4:120:LYS:HA	60:n4:123:ARG:HD2	1.83	0.59
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.85	0.59
1:2:545:A:H4'	1:2:546:U:OP1	2.03	0.59
1:2:647:G:N2	1:2:687:G:H22	2.01	0.59
1:2:740:A:H2'	1:2:741:C:H5''	1.85	0.59
1:2:1537:C:N4	1:2:1572:G:H1	2.01	0.59
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.85	0.59
19:C7:7:LYS:O	19:C7:11:ARG:HB2	2.03	0.59
24:D2:29:PRO:O	24:D2:30:SER:HB3	2.02	0.59
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.85	0.59
36:1:3384:U:H2'	36:1:3385:U:C6	2.38	0.59
37:3:28:C:C4	37:3:29:C:C2	2.91	0.59
43:L6:97:ASN:OD1	43:L6:99:GLU:HG2	2.02	0.59
44:L7:109:THR:HG22	54:M8:4:ASP:HB3	1.85	0.59
70:O4:43:LYS:HD3	70:O4:50:ALA:HB2	1.85	0.59
1:6:138:A:H2'	1:6:139:C:H5'	1.85	0.59
1:6:1773:C:OP1	77:q1:3:ALA:HB3	2.03	0.59
6:s4:252:ARG:NH2	6:s4:252:ARG:HB3	2.17	0.59
10:s8:82:VAL:HG12	10:s8:101:ILE:HG22	1.83	0.59
16:c4:85:ALA:HB2	16:c4:94:PRO:HA	1.84	0.59
22:d0:80:GLU:OE1	31:d9:44:ARG:HD2	2.03	0.59
36:5:653:A:H1'	36:5:2360:C:C2	2.38	0.59
36:5:1174:G:H21	52:m6:87:MET:HE2	1.67	0.59
36:5:2211:U:OP2	86:5:4218:OHX:N1	2.36	0.59
36:5:2322:C:OP1	86:5:4155:OHX:N6	2.36	0.59
86:5:4014:OHX:N5	86:5:4212:OHX:N1	2.50	0.59
37:7:9:C:H5''	37:7:10:C:OP2	2.03	0.59
44:l7:222:HIS:ND1	44:l7:224:ILE:HG13	2.18	0.59
46:l9:90:MET:O	46:l9:91:ARG:HG2	2.02	0.59
48:m1:149:GLY:O	48:m1:153:LYS:HD2	2.03	0.59
50:m4:22:LEU:HD13	50:m4:32:LEU:HD23	1.84	0.59
65:n9:16:ALA:O	65:n9:20:GLY:HA3	2.02	0.59
1:2:278:U:H4'	1:2:279:G:O5'	2.01	0.58
4:S2:108:ASN:O	4:S2:108:ASN:ND2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:69:GLY:HA2	9:S7:72:LYS:HD2	1.85	0.58
36:1:860:G:C5	39:L2:181:LYS:HB2	2.38	0.58
36:1:975:C:H2'	36:1:976:U:C6	2.37	0.58
36:1:1783:U:H2'	36:1:1784:G:H8	1.68	0.58
36:1:2875:U:H2'	36:1:2875:U:O2	2.03	0.58
36:1:3215:A:O5'	50:M4:121:MET:HE1	2.03	0.58
36:1:3242:G:N2	36:1:3245:A:OP2	2.35	0.58
37:3:98:C:OP1	56:N0:39:SER:OG	2.20	0.58
51:M5:65:ARG:HD2	51:M5:129:TYR:HE1	1.67	0.58
1:6:322:G:OP1	86:6:2106:OHX:N5	2.36	0.58
1:6:1324:G:N7	86:6:2103:OHX:N2	2.51	0.58
1:6:1498:G:H1	1:6:1509:C:H42	1.51	0.58
20:c8:42:TYR:HE2	20:c8:73:MET:HG3	1.66	0.58
27:d5:54:VAL:HA	27:d5:57:TYR:CZ	2.38	0.58
36:5:1010:G:N3	47:m0:194:GLY:HA3	2.18	0.58
36:5:2177:G:O6	86:5:3968:OHX:N1	2.35	0.58
36:5:2303:A:OP1	77:q1:23:ARG:NH2	2.35	0.58
42:l5:289:LYS:HD3	47:m0:206:LEU:HD23	1.85	0.58
62:n6:47:ALA:O	62:n6:122:LYS:NZ	2.35	0.58
1:2:187:G:H4'	1:2:188:A:OP1	2.02	0.58
1:2:623:A:OP1	86:2:2157:OHX:N2	2.36	0.58
1:2:1169:G:O2'	1:2:1576:A:N6	2.35	0.58
1:2:1537:C:H42	1:2:1572:G:H22	1.51	0.58
6:S4:50:ASN:O	6:S4:53:LYS:NZ	2.35	0.58
6:S4:52:LEU:HB3	6:S4:54:TYR:CD2	2.33	0.58
13:C1:97:TYR:O	13:C1:99:ARG:HG2	2.03	0.58
29:D7:36:LYS:HB3	29:D7:43:ILE:HG22	1.85	0.58
36:1:132:C:H2'	36:1:133:U:H5''	1.86	0.58
36:1:1569:U:H5''	36:1:1570:U:C6	2.37	0.58
41:L4:5:GLN:NE2	41:L4:21:PRO:HB3	2.18	0.58
1:6:872:G:H2'	1:6:873:U:O4'	2.04	0.58
1:6:1159:C:H5''	1:6:1160:A:H5'	1.83	0.58
10:s8:97:THR:OG1	10:s8:98:LYS:O	2.20	0.58
34:sR:22:SER:OG	34:sR:70:ASP:HA	2.01	0.58
36:5:1100:U:OP2	44:l7:196:LYS:HE3	2.04	0.58
36:5:1170:A:OP2	86:5:3995:OHX:N6	2.36	0.58
36:5:3050:U:H5''	60:n4:17:ARG:HE	1.67	0.58
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.28	0.58
42:l5:182:GLY:HA2	42:l5:194:LEU:HD13	1.83	0.58
61:n5:57:LEU:HA	61:n5:61:LYS:HG2	1.85	0.58
70:o4:44:CYS:HA	70:o4:51:LEU:HD21	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:o5:47:VAL:O	71:o5:51:ILE:HG13	2.03	0.58
1:2:56:U:H4'	1:2:57:G:H5'	1.85	0.58
1:2:103:A:O3'	1:2:308:C:N4	2.36	0.58
1:2:248:U:OP1	86:2:2092:OHX:N6	2.36	0.58
1:2:375:U:OP1	25:D3:23:ARG:NH2	2.36	0.58
1:2:383:G:N7	86:2:2130:OHX:N4	2.51	0.58
1:2:759:U:OP1	86:2:2160:OHX:N1	2.36	0.58
1:2:1241:G:OP1	17:C5:77:ARG:NH2	2.35	0.58
1:2:1754:A:H4'	1:2:1755:A:O4'	2.03	0.58
3:S1:183:GLN:O	3:S1:187:LYS:N	2.36	0.58
6:S4:240:LYS:HE2	6:S4:240:LYS:H	1.68	0.58
11:S9:109:LEU:CB	11:S9:146:PHE:HB3	2.33	0.58
19:C7:72:LYS:O	19:C7:75:GLU:N	2.35	0.58
36:1:2274:U:OP2	86:1:3958:OHX:N4	2.36	0.58
64:N8:116:GLY:HA2	64:N8:137:LYS:NZ	2.18	0.58
64:N8:126:LYS:HA	64:N8:146:GLU:O	2.04	0.58
79:Q3:36:ARG:NH2	79:Q3:46:THR:HG22	2.18	0.58
1:6:67:A:N6	1:6:83:G:O2'	2.36	0.58
6:s4:9:LEU:HB3	6:s4:30:ARG:HB2	1.85	0.58
7:s5:36:ALA:HB1	7:s5:42:LEU:HD12	1.83	0.58
9:s7:46:ILE:HA	9:s7:59:ALA:O	2.03	0.58
28:d6:43:ASN:HB3	28:d6:46:GLU:H	1.68	0.58
36:5:108:A:O2'	36:5:323:A:N1	2.37	0.58
36:5:864:G:OP2	86:5:3909:OHX:N4	2.36	0.58
36:5:1348:U:H5''	36:5:1355:A:N6	2.18	0.58
36:5:1500:G:H2'	36:5:1501:U:O4'	2.03	0.58
36:5:2705:A:OP2	86:5:3892:OHX:N2	2.36	0.58
36:5:3043:C:P	59:n3:48:ARG:HH22	2.26	0.58
39:l2:90:ALA:HB2	39:l2:101:VAL:HG13	1.83	0.58
43:l6:40:LEU:HB3	43:l6:84:VAL:HG11	1.84	0.58
49:m3:3:ILE:HG12	64:n8:34:MET:CE	2.32	0.58
49:m3:75:PHE:O	49:m3:79:GLU:HB2	2.03	0.58
66:o0:13:LYS:O	66:o0:17:VAL:HG23	2.03	0.58
74:o8:48:SER:OG	74:o8:49:SER:N	2.34	0.58
1:2:66:U:H1'	8:S6:160:ARG:HH21	1.69	0.58
1:2:1041:G:OP1	86:2:2149:OHX:N5	2.36	0.58
1:2:1469:A:H2'	1:2:1470:C:C6	2.39	0.58
3:S1:128:LYS:HE3	3:S1:132:ASP:OD1	2.03	0.58
21:C9:57:ARG:HG2	21:C9:104:VAL:HG21	1.85	0.58
36:1:1317:A:OP1	86:1:4059:OHX:N2	2.37	0.58
36:1:1840:U:OP2	86:1:3971:OHX:N5	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1874:A:H5''	55:M9:18:GLY:HA3	1.85	0.58
36:1:1913:A:N3	36:1:2120:A:H2'	2.19	0.58
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.38	0.58
49:M3:52:ASP:OD1	49:M3:52:ASP:N	2.35	0.58
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.84	0.58
1:6:1524:A:H2'	1:6:1525:A:C8	2.38	0.58
2:s0:103:THR:O	2:s0:106:SER:OG	2.19	0.58
23:d1:3:ASN:OD1	23:d1:7:GLN:HB3	2.03	0.58
36:5:712:G:H2'	36:5:713:U:C6	2.38	0.58
36:5:2158:A:OP2	39:l2:156:LYS:NZ	2.29	0.58
36:5:2661:G:H1	36:5:2709:C:H42	1.52	0.58
48:m1:92:ARG:HG3	48:m1:172:LEU:HB2	1.84	0.58
57:n1:69:LYS:HE2	57:n1:70:SER:HB3	1.85	0.58
63:n7:89:VAL:O	63:n7:91:ALA:N	2.35	0.58
1:2:778:G:H22	26:D4:10:ARG:NH1	2.02	0.58
1:2:802:G:H21	24:D2:107:SER:HB3	1.67	0.58
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.84	0.58
36:1:799:G:O6	86:1:3974:OHX:N5	2.36	0.58
36:1:1595:U:OP1	36:1:1595:U:H4'	2.02	0.58
36:1:1942:U:HO2'	36:1:3345:G:HO2'	1.50	0.58
36:1:2679:A:O2'	48:M1:52:TYR:OH	2.19	0.58
37:3:62:U:OP1	42:L5:277:LEU:HB2	2.04	0.58
38:4:103:G:O6	86:4:226:OHX:N4	2.36	0.58
39:L2:32:LEU:HD13	39:L2:37:ARG:HD3	1.84	0.58
42:L5:86:TYR:HB3	42:L5:246:ALA:HB3	1.85	0.58
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	1.85	0.58
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.85	0.58
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.85	0.58
74:O8:58:ASP:OD2	74:O8:60:GLY:N	2.36	0.58
1:6:1017:U:H2'	1:6:1018:U:H6	1.69	0.58
11:s9:49:LEU:HA	11:s9:52:ILE:HD12	1.85	0.58
21:c9:33:TYR:HD1	21:c9:37:VAL:HG21	1.69	0.58
27:d5:92:ILE:HD11	27:d5:102:THR:OG1	2.04	0.58
36:5:1241:U:O2'	36:5:1242:G:O5'	2.19	0.58
36:5:2439:A:N6	36:5:2508:U:H3	2.01	0.58
36:5:2698:G:H2'	36:5:2699:G:H8	1.67	0.58
36:5:2794:G:H1'	36:5:2795:U:C6	2.39	0.58
36:5:2895:G:H2'	36:5:2896:A:H5''	1.86	0.58
40:l3:43:LEU:HG	40:l3:181:ILE:HG21	1.86	0.58
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.37	0.58
69:o3:75:HIS:HB2	69:o3:82:ARG:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:p0:12:PHE:CE2	81:p0:62:ALA:HB2	2.38	0.58
1:2:190:C:N4	1:2:196:G:C6	2.72	0.58
1:2:959:U:H5'	29:D7:28:PRO:HB3	1.84	0.58
1:2:1157:A:O2'	1:2:1158:C:OP1	2.16	0.58
1:2:1231:U:H4'	1:2:1258:U:H6	1.68	0.58
7:S5:59:VAL:C	7:S5:61:TYR:H	2.11	0.58
10:S8:8:ARG:NH2	10:S8:19:ALA:O	2.37	0.58
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.84	0.58
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	1.85	0.58
36:1:73:C:O2	49:M3:59:ARG:HD3	2.04	0.58
36:1:263:C:H2'	36:1:264:G:O4'	2.03	0.58
36:1:2121:G:H2'	36:1:2122:G:H4'	1.84	0.58
40:L3:171:LEU:HD21	40:L3:333:LYS:HG2	1.86	0.58
44:L7:34:LYS:HA	44:L7:37:ASN:HB2	1.85	0.58
1:6:116:U:H2'	1:6:117:U:C6	2.37	0.58
1:6:513:U:H2'	1:6:514:G:C8	2.37	0.58
4:s2:187:LEU:HD23	4:s2:188:LEU:HD23	1.84	0.58
11:s9:8:TYR:O	86:s9:201:OHX:N4	2.36	0.58
19:c7:14:LYS:HG3	19:c7:69:ILE:HG22	1.85	0.58
29:d7:59:CYS:O	29:d7:61:THR:N	2.37	0.58
36:5:1593:A:N3	36:5:1615:C:O2'	2.34	0.58
36:5:1701:C:H2'	36:5:1702:U:O4'	2.03	0.58
36:5:2136:C:O2'	36:5:2137:U:H5'	2.02	0.58
36:5:2626:A:O5'	57:n1:2:GLY:N	2.37	0.58
36:5:2748:A:N3	42:l5:36:LEU:HD23	2.19	0.58
36:5:3216:G:OP2	69:o3:2:ALA:HB2	2.04	0.58
41:l4:82:THR:HG23	41:l4:84:ARG:N	2.19	0.58
41:l4:361:HIS:CG	41:l4:362:ASP:N	2.67	0.58
49:m3:133:PRO:O	49:m3:135:ALA:N	2.37	0.58
55:m9:70:LYS:HG3	55:m9:75:HIS:HB2	1.86	0.58
57:n1:88:ARG:HD3	65:n9:33:LYS:NZ	2.19	0.58
64:n8:147:LEU:HD12	72:o6:7:ILE:HD11	1.86	0.58
1:2:2:A:H5'	1:2:2:A:H8	1.69	0.58
4:S2:140:ARG:HH12	23:D1:1:MET:HB3	1.67	0.58
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.85	0.58
6:S4:195:ILE:HA	6:S4:210:ILE:HD13	1.85	0.58
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.86	0.58
22:D0:95:ALA:HB1	22:D0:99:ILE:HG21	1.84	0.58
36:1:619:A:H5''	36:1:620:U:OP1	2.04	0.58
36:1:1129:A:OP1	47:M0:13:LYS:NZ	2.25	0.58
39:L2:48:ILE:HD11	79:Q3:54:ILE:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:35:VAL:HG13	51:M5:65:ARG:HB3	1.86	0.58
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.38	0.58
58:N2:56:VAL:HG22	58:N2:65:VAL:HG22	1.85	0.58
60:N4:46:PRO:HB2	60:N4:54:LEU:HD22	1.84	0.58
61:N5:75:LYS:HD3	61:N5:123:TYR:HE1	1.69	0.58
1:6:67:A:O2'	1:6:69:G:OP1	2.10	0.58
1:6:333:A:C6	1:6:334:G:C6	2.91	0.58
4:s2:156:THR:HA	24:d2:96:ALA:HB2	1.84	0.58
15:c3:63:ALA:HB3	15:c3:71:ILE:HG12	1.86	0.58
18:c6:50:GLU:OE1	18:c6:112:TYR:OH	2.18	0.58
20:c8:112:ASP:O	20:c8:115:ARG:HB3	2.04	0.58
36:5:1401:A:H2'	36:5:1402:C:H6	1.68	0.58
36:5:1711:C:H2'	36:5:1712:G:O4'	2.03	0.58
36:5:2271:A:H2'	36:5:2272:G:O4'	2.04	0.58
36:5:2818:U:H5'	36:5:2818:U:C6	2.38	0.58
36:5:3299:A:H61	36:5:3315:G:H1	1.50	0.58
52:m6:89:SER:O	52:m6:91:LYS:N	2.36	0.58
60:n4:9:SER:O	60:n4:9:SER:OG	2.22	0.58
1:2:306:U:H2'	1:2:307:G:H8	1.69	0.58
1:2:990:C:O2'	16:C4:127:ARG:HG2	2.03	0.58
1:2:1367:G:O5'	21:C9:7:ARG:NH1	2.36	0.58
1:2:1504:G:H2'	1:2:1505:A:C8	2.38	0.58
1:2:1657:U:H5	36:1:2125:A:O3'	1.87	0.58
86:2:2031:OHX:N6	86:2:2146:OHX:N2	2.51	0.58
18:C6:82:ARG:NH2	18:C6:114:ARG:HB3	2.18	0.58
36:1:300:G:O6	86:1:4147:OHX:N1	2.36	0.58
36:1:1174:G:N2	52:M6:87:MET:HE2	2.19	0.58
36:1:1544:G:H5'	51:M5:67:ARG:HE	1.69	0.58
36:1:1722:U:OP1	55:M9:100:ARG:HD3	2.03	0.58
36:1:3243:A:C8	52:M6:156:LEU:HD22	2.38	0.58
39:L2:3:ARG:HG2	39:L2:4:VAL:H	1.69	0.58
39:L2:80:GLU:OE1	79:Q3:73:THR:HG22	2.03	0.58
49:M3:83:ALA:HB2	49:M3:113:VAL:HG12	1.85	0.58
52:M6:186:ALA:O	52:M6:187:GLU:HB2	2.01	0.58
53:M7:127:ARG:O	53:M7:139:TYR:N	2.36	0.58
56:N0:33:ASN:C	56:N0:35:VAL:H	2.10	0.58
1:6:1273:G:O5'	1:6:1274:C:H3'	2.04	0.58
17:c5:51:SER:C	17:c5:53:PRO:HD2	2.28	0.58
24:d2:5:SER:O	24:d2:7:LEU:N	2.37	0.58
36:5:499:G:H2'	36:5:500:C:C6	2.39	0.58
36:5:1213:G:H4'	56:n0:90:MET:CG	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1222:G:H8	36:5:1222:G:OP2	1.87	0.58
36:5:2991:A:O2'	36:5:3309:G:N7	2.36	0.58
36:5:3094:A:OP1	59:n3:14:SER:OG	2.20	0.58
36:5:3214:U:OP2	50:m4:128:ARG:NH2	2.37	0.58
47:m0:86:HIS:HB3	47:m0:139:ARG:CG	2.33	0.58
67:o1:16:LEU:O	67:o1:20:LEU:N	2.36	0.58
67:o1:26:LYS:HA	67:o1:64:VAL:HG21	1.86	0.58
1:2:577:G:C6	35:SM:99:LYS:HD3	2.39	0.58
1:2:1002:G:N2	1:2:1760:G:O3'	2.35	0.58
1:2:1795:U:O4	28:D6:9:GLY:HA2	2.04	0.58
2:S0:32:HIS:C	2:S0:34:GLU:H	2.10	0.58
9:S7:98:ILE:HD13	9:S7:118:LEU:HD22	1.85	0.58
13:C1:6:THR:O	13:C1:8:GLN:N	2.37	0.58
14:C2:33:ARG:HA	14:C2:36:LEU:HD12	1.84	0.58
34:SR:214:ALA:HB2	34:SR:220:ILE:HA	1.85	0.58
36:1:709:A:H8	36:1:709:A:O5'	1.87	0.58
36:1:1108:U:H2'	36:1:1109:U:C6	2.38	0.58
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.30	0.58
36:1:2366:C:H42	36:1:2381:G:H1	1.51	0.58
36:1:3181:C:H2'	36:1:3182:G:H8	1.69	0.58
36:1:3268:A:OP2	53:M7:181:ARG:NH1	2.37	0.58
37:3:112:G:H2'	37:3:113:C:C6	2.38	0.58
42:L5:166:ALA:HB1	42:L5:171:LEU:HD12	1.85	0.58
51:M5:9:GLU:HG3	72:O6:44:VAL:HG11	1.85	0.58
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.69	0.58
5:s3:75:LYS:HB3	12:c0:22:VAL:HG22	1.86	0.58
11:s9:159:ALA:HB3	11:s9:162:SER:HB3	1.85	0.58
36:5:268:A:O2'	36:5:269:G:OP2	2.20	0.58
36:5:2207:A:H2'	36:5:2208:A:O4'	2.04	0.58
36:5:2921:U:H2'	36:5:2923:U:OP2	2.04	0.58
41:l4:302:ALA:HB2	54:m8:39:ARG:NH1	2.17	0.58
70:o4:99:LYS:O	70:o4:103:LYS:HG2	2.02	0.58
71:o5:21:LEU:HD11	71:o5:25:LYS:HE3	1.86	0.58
1:2:66:U:H5	8:S6:173:PRO:HG3	1.69	0.58
1:2:1146:G:C6	1:2:1147:A:C6	2.92	0.58
1:2:1427:A:OP2	35:SM:93:ARG:NH1	2.36	0.58
7:S5:64:VAL:HG23	7:S5:89:ILE:HD11	1.86	0.58
14:C2:50:LYS:O	14:C2:54:ARG:HG2	2.04	0.58
14:C2:54:ARG:O	14:C2:85:LYS:NZ	2.35	0.58
15:C3:116:ILE:O	15:C3:120:SER:OG	2.22	0.58
36:1:1144:U:OP1	36:1:1367:G:O2'	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1901:A:H5''	36:1:1902:G:OP2	2.04	0.58
37:3:80:G:OP2	86:3:224:OHX:N6	2.37	0.58
38:4:62:C:O2	86:4:229:OHX:N5	2.37	0.58
54:M8:33:TYR:HA	54:M8:36:LEU:HB2	1.86	0.58
67:O1:78:LYS:HG2	67:O1:79:ARG:HH21	1.69	0.58
1:6:500:C:O2'	1:6:501:U:O4'	2.22	0.58
1:6:1238:A:H2'	1:6:1239:U:H5'	1.84	0.58
4:s2:101:VAL:HG23	4:s2:115:ILE:HG23	1.86	0.58
8:s6:135:PRO:HB2	8:s6:141:ILE:HG13	1.86	0.58
19:c7:52:GLY:O	19:c7:55:THR:OG1	2.20	0.58
21:c9:86:ARG:NH1	21:c9:90:PRO:O	2.37	0.58
36:5:1758:G:H5'	58:n2:104:ARG:NH2	2.19	0.58
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.37	0.58
47:m0:42:THR:HG23	47:m0:45:GLU:HB2	1.85	0.58
47:m0:43:VAL:HG21	47:m0:197:VAL:HB	1.86	0.58
49:m3:56:PRO:HG3	49:m3:74:GLY:O	2.04	0.58
51:m5:150:TRP:CH2	51:m5:151:ILE:HD12	2.38	0.58
54:m8:62:VAL:HB	54:m8:83:VAL:HG11	1.86	0.58
75:o9:3:ALA:O	75:o9:5:LYS:N	2.35	0.58
1:2:190:C:N4	1:2:196:G:O6	2.37	0.57
1:2:992:A:H2	1:2:1012:U:H3	1.48	0.57
1:2:1370:U:H4'	1:2:1371:A:O5'	2.03	0.57
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.84	0.57
14:C2:75:VAL:HG21	14:C2:120:VAL:HG21	1.86	0.57
36:1:53:G:OP1	73:O7:48:ASN:HB2	2.04	0.57
36:1:120:G:N2	45:L8:126:SER:HB2	2.19	0.57
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.37	0.57
36:1:1355:A:H4'	36:1:1356:U:O5'	2.03	0.57
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.23	0.57
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.84	0.57
44:L7:214:TRP:CE2	44:L7:219:LYS:HD2	2.39	0.57
69:O3:71:VAL:HA	69:O3:83:ALA:HB2	1.85	0.57
1:6:250:C:H2'	1:6:251:A:C8	2.39	0.57
1:6:607:G:H5'	1:6:613:G:N2	2.17	0.57
1:6:959:U:H4'	15:c3:16:ILE:HD12	1.85	0.57
4:s2:106:ASP:OD1	4:s2:107:SER:N	2.38	0.57
8:s6:155:ASP:OD1	60:n4:108:LYS:NZ	2.31	0.57
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.21	0.57
11:s9:113:VAL:HG21	11:s9:134:ILE:HG21	1.86	0.57
36:5:350:C:N3	36:5:368:G:H5'	2.18	0.57
38:8:95:G:OP2	73:o7:72:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:137:ILE:HG12	39:l2:147:ARG:HG3	1.85	0.57
42:l5:279:LYS:HD3	42:l5:282:ARG:HH22	1.68	0.57
43:l6:13:GLU:OE2	68:o2:91:THR:HB	2.03	0.57
44:l7:132:PRO:HA	44:l7:229:PHE:CD2	2.39	0.57
51:m5:140:LYS:NZ	71:o5:96:GLU:OE2	2.29	0.57
66:o0:30:THR:HG21	66:o0:89:VAL:HG22	1.86	0.57
81:p0:94:THR:O	81:p0:98:ASN:ND2	2.36	0.57
1:2:1208:A:H5'	1:2:1209:C:OP2	2.04	0.57
1:2:1489:U:OP2	5:S3:9:ARG:NH2	2.38	0.57
1:2:1761:U:O2'	1:2:1762:A:OP2	2.20	0.57
8:S6:164:LYS:N	8:S6:167:LYS:O	2.31	0.57
8:S6:185:GLN:HA	8:S6:188:ARG:NH1	2.19	0.57
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.69	0.57
36:1:3269:U:O2	36:1:3269:U:H5'	2.05	0.57
86:1:4194:OHX:N4	86:O1:202:OHX:N3	2.52	0.57
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.04	0.57
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.87	0.57
1:6:478:A:OP1	80:e0:37:ARG:NH1	2.37	0.57
1:6:489:C:O2'	1:6:490:C:O5'	2.22	0.57
1:6:959:U:H5''	15:c3:15:ALA:O	2.04	0.57
5:s3:8:LYS:HG2	22:d0:63:LEU:HD21	1.86	0.57
5:s3:166:ASP:O	5:s3:190:ARG:NH2	2.36	0.57
11:s9:114:TYR:HA	11:s9:119:ALA:HB3	1.85	0.57
11:s9:123:HIS:CE1	80:e0:37:ARG:HD2	2.39	0.57
36:5:784:A:C6	54:m8:93:ILE:HG23	2.38	0.57
36:5:1228:C:H2'	36:5:1229:G:C8	2.38	0.57
36:5:2093:A:P	55:m9:143:ILE:HG12	2.44	0.57
36:5:2115:G:H22	36:5:2120:A:H1'	1.69	0.57
40:l3:88:GLY:O	40:l3:161:LEU:N	2.22	0.57
41:l4:271:LYS:HB2	41:l4:274:TYR:HB2	1.85	0.57
54:m8:96:PHE:CG	54:m8:97:PRO:HD2	2.39	0.57
1:2:647:G:H2'	1:2:648:G:H8	1.69	0.57
11:S9:17:ARG:O	11:S9:23:ARG:NH2	2.37	0.57
11:S9:163:PRO:HG2	11:S9:164:PHE:HD2	1.70	0.57
28:D6:46:GLU:HG2	28:D6:49:ALA:HB2	1.85	0.57
36:1:582:G:O6	86:1:4169:OHX:N2	2.37	0.57
36:1:646:A:H2'	36:1:647:A:O4'	2.04	0.57
36:1:824:C:H2'	36:1:825:U:C6	2.39	0.57
36:1:1844:C:O2	73:O7:9:GLY:HA2	2.03	0.57
41:L4:5:GLN:HE22	41:L4:21:PRO:HB3	1.69	0.57
42:L5:9:SER:OG	42:L5:10:SER:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.39	0.57
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.87	0.57
66:O0:31:VAL:HA	66:O0:34:LEU:HB2	1.86	0.57
72:O6:54:GLU:O	72:O6:58:ILE:HG23	2.05	0.57
78:Q2:99:GLN:HG2	78:Q2:100:LYS:H	1.70	0.57
1:6:484:C:N4	1:6:503:G:H22	2.02	0.57
10:s8:140:GLU:HA	10:s8:143:TRP:HB2	1.86	0.57
36:5:438:A:H2'	36:5:494:G:N2	2.19	0.57
36:5:3191:G:O6	86:5:4139:OHX:N6	2.37	0.57
45:l8:52:TRP:NE1	45:l8:60:ARG:HH12	2.02	0.57
67:o1:44:MET:O	67:o1:46:THR:HG22	2.04	0.57
83:p1:29:UNK:O	83:p1:31:UNK:N	2.37	0.57
1:2:186:C:H3'	1:2:187:G:H8	1.70	0.57
1:2:321:C:N4	1:2:1667:A:OP1	2.37	0.57
1:2:1383:G:H1'	22:D0:57:ARG:NH1	2.20	0.57
5:S3:179:GLN:O	5:S3:179:GLN:NE2	2.36	0.57
14:C2:50:LYS:NZ	33:E1:129:GLY:O	2.25	0.57
36:1:1362:G:H4'	44:L7:159:GLN:O	2.05	0.57
36:1:1874:A:OP2	55:M9:20:ARG:NH1	2.35	0.57
38:4:58:G:N7	73:O7:63:ARG:NH1	2.50	0.57
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	1.86	0.57
47:M0:117:GLY:O	86:M0:304:OHX:N3	2.37	0.57
49:M3:135:ALA:O	49:M3:136:GLU:HB3	2.04	0.57
51:M5:65:ARG:HG2	51:M5:127:TYR:CD1	2.39	0.57
70:O4:56:THR:O	70:O4:56:THR:OG1	2.17	0.57
75:O9:6:SER:OG	75:O9:9:ILE:HG12	2.05	0.57
1:6:922:G:H2'	1:6:923:A:H8	1.70	0.57
1:6:1191:U:H5'	18:c6:143:ARG:NH1	2.19	0.57
1:6:1584:G:N7	18:c6:14:LYS:HE2	2.18	0.57
8:s6:122:GLU:O	8:s6:124:LEU:N	2.37	0.57
8:s6:137:ARG:O	8:s6:141:ILE:HD12	2.05	0.57
8:s6:158:ILE:HG23	60:n4:85:ALA:HB2	1.86	0.57
12:c0:41:TYR:O	12:c0:45:ALA:N	2.28	0.57
15:c3:88:LEU:HG	15:c3:125:LEU:HD13	1.87	0.57
36:5:148:G:OP2	51:m5:4:TYR:OH	2.14	0.57
36:5:731:U:H2'	36:5:732:C:C6	2.40	0.57
36:5:1098:A:O5'	57:n1:129:LYS:HB2	2.04	0.57
36:5:2362:C:H42	36:5:2376:G:H1	1.50	0.57
36:5:2424:A:N1	39:l2:230:VAL:HG21	2.19	0.57
51:m5:21:PHE:HD2	51:m5:22:LEU:HD13	1.69	0.57
76:q0:110:CYS:SG	76:q0:111:ARG:N	2.76	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:47:GLN:NE2	78:q2:53:GLN:OE1	2.34	0.57
1:2:1788:G:P	16:C4:127:ARG:HH12	2.27	0.57
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.69	0.57
18:C6:24:ALA:HB2	18:C6:92:TYR:OH	2.05	0.57
36:1:911:C:H42	39:L2:3:ARG:HD3	1.70	0.57
36:1:2725:U:H5''	36:1:2726:C:OP2	2.04	0.57
36:1:3316:A:OP1	36:1:3318:G:N2	2.38	0.57
44:L7:24:GLU:O	44:L7:26:VAL:N	2.33	0.57
48:M1:93:ASP:O	48:M1:156:LYS:NZ	2.26	0.57
59:N3:33:ASN:HD21	59:N3:63:LYS:N	2.02	0.57
1:6:45:U:H5''	1:6:46:A:OP2	2.05	0.57
1:6:846:G:H2'	1:6:847:A:O4'	2.05	0.57
1:6:1175:U:H2'	1:6:1176:G:C8	2.40	0.57
5:s3:103:GLU:HG3	5:s3:107:PHE:CE2	2.40	0.57
9:s7:114:ARG:O	9:s7:117:THR:HB	2.05	0.57
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.10	0.57
11:s9:126:ARG:HA	11:s9:129:ILE:HD12	1.85	0.57
22:d0:96:PRO:O	22:d0:100:VAL:HG23	2.04	0.57
25:d3:14:LYS:HE3	25:d3:18:HIS:CE1	2.39	0.57
34:sR:13:LEU:HD12	34:sR:310:ILE:HG21	1.86	0.57
34:sR:22:SER:OG	34:sR:69:GLN:O	2.17	0.57
36:5:869:G:N2	36:5:890:C:O2	2.37	0.57
36:5:1152:G:N2	36:5:1200:A:H61	2.02	0.57
36:5:1720:U:O4	55:m9:125:LYS:NZ	2.37	0.57
39:l2:104:LEU:O	39:l2:107:VAL:HG22	2.03	0.57
42:l5:88:ILE:HD12	42:l5:240:TYR:CE1	2.40	0.57
47:m0:98:ARG:HB3	47:m0:120:GLY:HA3	1.85	0.57
1:2:333:A:H5'	10:S8:48:THR:HB	1.87	0.57
1:2:560:U:H2'	1:2:561:G:C8	2.39	0.57
1:2:761:G:OP1	11:S9:54:ARG:NH1	2.38	0.57
1:2:1165:G:C6	1:2:1166:A:C6	2.93	0.57
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.85	0.57
4:S2:127:ALA:O	4:S2:131:ILE:HG13	2.04	0.57
5:S3:104:SER:OG	5:S3:105:MET:N	2.37	0.57
8:S6:54:GLY:C	8:S6:63:MET:HE3	2.30	0.57
9:S7:153:LEU:HD22	9:S7:184:GLU:HB3	1.86	0.57
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.85	0.57
24:D2:82:LYS:O	24:D2:84:GLY:N	2.30	0.57
36:1:1716:U:O2'	36:1:1717:U:H4'	2.04	0.57
36:1:2303:A:P	77:Q1:23:ARG:HH22	2.27	0.57
70:O4:91:ARG:HG3	70:O4:95:ILE:HD13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:484:C:H42	1:6:503:G:N2	2.01	0.57
1:6:831:U:O2'	1:6:832:U:H5'	2.05	0.57
1:6:1473:U:O2'	7:s5:103:ASN:OD1	2.23	0.57
18:c6:115:THR:O	18:c6:117:LEU:N	2.37	0.57
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.86	0.57
21:c9:86:ARG:HB2	21:c9:89:ARG:HG3	1.86	0.57
36:5:211:A:H5''	41:l4:221:ASN:ND2	2.19	0.57
36:5:422:A:C2	36:5:2363:A:H4'	2.40	0.57
36:5:2254:U:H2'	36:5:2261:G:N2	2.18	0.57
36:5:2586:G:C8	45:l8:241:LYS:HD3	2.39	0.57
36:5:2897:A:H2'	36:5:2899:C:H5''	1.87	0.57
39:l2:159:SER:O	39:l2:161:ASP:N	2.37	0.57
40:l3:290:ASP:C	40:l3:292:ALA:H	2.12	0.57
48:m1:150:ASN:C	48:m1:151:SER:O	2.45	0.57
63:n7:42:LEU:HD23	63:n7:96:VAL:HG12	1.87	0.57
78:q2:38:GLN:HA	78:q2:38:GLN:NE2	2.12	0.57
1:2:52:U:H2'	1:2:53:G:C8	2.40	0.57
1:2:782:U:H5''	1:2:783:G:H5''	1.86	0.57
1:2:806:A:N6	9:S7:104:ARG:HH22	2.03	0.57
1:2:1677:C:H2'	1:2:1678:A:O4'	2.05	0.57
2:S0:41:ARG:NE	2:S0:45:VAL:HB	2.09	0.57
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.86	0.57
15:C3:67:THR:O	15:C3:69:ASN:N	2.32	0.57
19:C7:35:CYS:O	19:C7:39:ALA:N	2.34	0.57
33:E1:109:ASP:HB2	33:E1:113:LYS:HG2	1.87	0.57
36:1:213:A:H2'	62:N6:10:SER:HB3	1.86	0.57
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.19	0.57
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.40	0.57
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.69	0.57
45:L8:226:TYR:O	45:L8:229:VAL:N	2.37	0.57
56:N0:81:TYR:CE1	56:N0:90:MET:HE3	2.40	0.57
71:O5:49:LYS:HA	71:O5:49:LYS:HE3	1.87	0.57
1:6:492:A:H2'	1:6:493:U:H5''	1.85	0.57
6:s4:252:ARG:HA	6:s4:255:ARG:HG3	1.86	0.57
22:d0:25:THR:HB	22:d0:115:GLU:HG2	1.87	0.57
34:sR:5:GLU:HA	34:sR:317:THR:HA	1.85	0.57
36:5:240:U:HO2'	36:5:241:G:H8	1.52	0.57
39:l2:65:ASP:OD2	39:l2:68:LYS:N	2.36	0.57
54:m8:26:LEU:HD23	54:m8:29:LEU:HD12	1.86	0.57
1:2:1773:C:H2'	1:2:1774:G:C8	2.39	0.57
8:S6:180:THR:HG22	8:S6:181:PRO:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:114:TYR:HA	11:S9:119:ALA:HB3	1.86	0.57
13:C1:37:ASN:HA	13:C1:44:THR:HG21	1.85	0.57
36:1:610:G:O6	41:L4:309:ARG:NH2	2.38	0.57
36:1:1103:A:OP2	36:1:1103:A:H4'	2.03	0.57
36:1:2532:U:H3	36:1:2547:A:N6	2.02	0.57
36:1:2824:G:O6	86:1:3897:OHX:N4	2.37	0.57
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.39	0.57
51:M5:45:PRO:O	51:M5:49:ARG:HB3	2.05	0.57
55:M9:186:LYS:HG2	55:M9:187:GLU:HG3	1.87	0.57
60:N4:6:ASP:OD2	60:N4:7:SER:N	2.38	0.57
1:6:1213:G:O2'	1:6:1244:A:N6	2.23	0.57
1:6:1282:U:OP1	86:6:2137:OHX:N4	2.38	0.57
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.87	0.57
20:c8:30:TYR:CE2	20:c8:40:ARG:HD2	2.39	0.57
20:c8:53:ASP:OD2	20:c8:55:HIS:HB2	2.05	0.57
22:d0:44:ASN:OD1	22:d0:102:ARG:NH2	2.37	0.57
22:d0:82:TYR:HB3	31:d9:52:PHE:HB3	1.87	0.57
28:d6:87:ARG:CZ	28:d6:92:ARG:HA	2.35	0.57
29:d7:49:HIS:CE1	29:d7:70:LYS:HG2	2.40	0.57
36:5:1155:C:OP1	44:l7:94:LYS:NZ	2.37	0.57
36:5:1200:A:H5'	36:5:1201:C:O5'	2.05	0.57
36:5:3001:C:OP1	40:l3:120:LYS:NZ	2.26	0.57
40:l3:81:THR:HG22	40:l3:321:PHE:HA	1.86	0.57
41:l4:269:SER:C	41:l4:271:LYS:H	2.13	0.57
45:l8:121:SER:O	45:l8:123:GLN:N	2.38	0.57
51:m5:98:LEU:HD22	51:m5:128:LYS:NZ	2.20	0.57
52:m6:15:LEU:HD12	52:m6:125:ARG:HA	1.87	0.57
58:n2:94:ARG:HG2	58:n2:96:VAL:HG22	1.87	0.57
62:n6:115:ARG:O	62:n6:119:ILE:HG13	2.05	0.57
1:2:55:A:H4'	1:2:459:G:OP1	2.05	0.57
1:2:826:U:H2'	1:2:827:C:C6	2.40	0.57
1:2:1366:U:OP1	18:C6:30:LYS:HD2	2.05	0.57
2:S0:164:ASN:HA	2:S0:170:ILE:HD11	1.87	0.57
3:S1:128:LYS:HG3	3:S1:134:VAL:HG22	1.86	0.57
34:SR:115:ILE:HD12	34:SR:122:ILE:HG12	1.85	0.57
36:1:56:G:H2'	36:1:57:A:H5''	1.87	0.57
36:1:1016:C:H1'	36:1:1028:U:C2	2.40	0.57
36:1:1363:A:OP2	86:1:4040:OHX:N6	2.38	0.57
36:1:2157:G:O6	39:L2:152:SER:N	2.38	0.57
36:1:2656:A:C8	36:1:2658:G:C8	2.93	0.57
36:1:3028:G:H2'	36:1:3029:A:O4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3200:G:C6	36:1:3201:C:C4	2.92	0.57
38:4:57:C:N4	73:O7:63:ARG:HH11	2.03	0.57
67:O1:10:ARG:HG2	67:O1:108:VAL:HA	1.86	0.57
67:O1:83:GLU:OE2	86:O1:202:OHX:N4	2.37	0.57
1:6:78:A:C8	8:s6:154:ARG:HD3	2.40	0.57
1:6:926:A:H2'	1:6:927:C:C6	2.40	0.57
21:c9:141:GLU:C	21:c9:143:ASP:H	2.13	0.57
24:d2:3:ARG:NH1	24:d2:9:ASP:OD2	2.38	0.57
36:5:252:U:H4'	36:5:253:A:H5''	1.87	0.57
36:5:1581:C:OP2	36:5:1581:C:H4'	2.04	0.57
36:5:1637:A:OP1	63:n7:73:LYS:HE3	2.04	0.57
36:5:1952:G:H1	36:5:2094:C:H42	1.51	0.57
36:5:2618:G:O4'	65:n9:3:LYS:HE3	2.04	0.57
36:5:3279:A:H2'	36:5:3280:U:H5'	1.86	0.57
39:l2:105:GLY:HA3	39:l2:160:SER:HB3	1.86	0.57
1:2:491:C:N3	1:2:496:G:N2	2.50	0.57
1:2:717:C:H2'	1:2:718:U:H5''	1.85	0.57
1:2:1475:A:H2'	1:2:1476:C:O4'	2.04	0.57
21:C9:61:VAL:HG21	21:C9:104:VAL:HG11	1.86	0.57
25:D3:6:PRO:HD2	25:D3:15:LEU:HD21	1.87	0.57
29:D7:47:PHE:HE1	29:D7:49:HIS:HB2	1.70	0.57
33:E1:108:VAL:HB	33:E1:114:VAL:HG22	1.86	0.57
36:1:1240:A:H3'	36:1:1241:U:C5'	2.35	0.57
36:1:1506:A:H1'	36:1:1848:G:O6	2.05	0.57
40:L3:79:VAL:HG22	40:L3:81:THR:OG1	2.05	0.57
40:L3:159:ARG:HD3	40:L3:180:GLU:HB3	1.84	0.57
41:L4:142:VAL:O	41:L4:144:LYS:N	2.37	0.57
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.05	0.57
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.38	0.57
47:M0:12:GLN:NE2	47:M0:128:ARG:HG2	2.20	0.57
49:M3:76:THR:HG22	49:M3:101:ARG:HB3	1.87	0.57
49:M3:159:VAL:HB	64:N8:96:LYS:HG2	1.86	0.57
58:N2:23:THR:HA	58:N2:28:PHE:HB3	1.86	0.57
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	1.86	0.57
70:O4:105:VAL:HG12	70:O4:106:LYS:HG2	1.86	0.57
76:Q0:93:LYS:HD2	76:Q0:102:ARG:HG2	1.87	0.57
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.04	0.57
2:s0:163:ASN:HB3	2:s0:169:SER:OG	2.04	0.57
6:s4:68:ARG:HD3	6:s4:76:VAL:HG11	1.85	0.57
7:s5:95:ASN:HA	7:s5:98:MET:HE2	1.87	0.57
11:s9:125:ALA:HA	11:s9:128:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:48:VAL:HG22	16:c4:49:LYS:H	1.70	0.57
26:d4:88:THR:O	26:d4:92:VAL:HG22	2.05	0.57
34:sR:80:ALA:HB3	34:sR:92:TRP:HB2	1.85	0.57
36:5:789:A:H2'	36:5:790:U:C6	2.40	0.57
36:5:2689:A:C8	36:5:2702:A:C6	2.92	0.57
45:l8:195:SER:O	45:l8:197:VAL:N	2.37	0.57
63:n7:12:VAL:HB	63:n7:81:LEU:HB3	1.85	0.57
1:2:416:A:H4'	1:2:417:A:OP2	2.04	0.56
1:2:1002:G:H22	1:2:1761:U:P	2.27	0.56
11:S9:60:LEU:HD21	11:S9:93:LEU:HG	1.85	0.56
18:C6:113:ASP:O	18:C6:114:ARG:HB2	2.03	0.56
21:C9:31:PRO:HG3	21:C9:103:LYS:HD3	1.87	0.56
36:1:716:A:N6	64:N8:117:ARG:HG3	2.19	0.56
36:1:2107:A:C2	36:1:3344:A:H8	2.23	0.56
36:1:2800:G:O6	64:N8:42:ARG:NH2	2.37	0.56
36:1:3085:G:H5''	36:1:3086:A:OP1	2.05	0.56
38:4:52:A:H4'	75:O9:19:GLN:HA	1.87	0.56
39:L2:204:MET:HB2	39:L2:208:ASP:HB2	1.86	0.56
43:L6:154:LEU:HD23	43:L6:157:GLN:HB2	1.85	0.56
45:L8:108:ARG:O	45:L8:112:GLU:HG2	2.05	0.56
49:M3:167:PHE:CE1	64:N8:132:LYS:HB2	2.40	0.56
1:6:43:A:O2'	1:6:99:C:OP1	2.20	0.56
1:6:328:A:H2'	1:6:329:G:C8	2.40	0.56
1:6:952:A:O2'	15:c3:114:ARG:HG3	2.05	0.56
1:6:1614:A:OP2	7:s5:84:LYS:NZ	2.38	0.56
5:s3:91:VAL:O	5:s3:93:ASP:N	2.36	0.56
7:s5:90:ILE:O	7:s5:94:THR:HG23	2.05	0.56
17:c5:129:GLY:HA3	35:sM:74:LYS:HG2	1.87	0.56
34:sR:81:LEU:HD23	34:sR:91:LEU:HA	1.86	0.56
36:5:1060:U:H2'	36:5:1061:A:C8	2.40	0.56
36:5:2775:U:H2'	36:5:2776:C:H6	1.69	0.56
42:l5:106:ALA:O	42:l5:110:LEU:HD22	2.05	0.56
43:l6:46:ARG:CG	43:l6:46:ARG:HH11	2.18	0.56
43:l6:46:ARG:HH11	43:l6:46:ARG:HG3	1.70	0.56
44:l7:127:LEU:HD13	44:l7:136:TYR:CE2	2.40	0.56
81:p0:19:LEU:HD22	81:p0:73:PHE:CE1	2.39	0.56
1:2:306:U:H2'	1:2:307:G:C8	2.40	0.56
1:2:485:A:H2'	1:2:486:G:O4'	2.05	0.56
10:S8:171:SER:OG	10:S8:180:ASP:N	2.28	0.56
34:SR:35:SER:OG	34:SR:45:TRP:NE1	2.31	0.56
38:4:52:A:H61	75:O9:35:ILE:HD12	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.40	0.56
41:L4:10:SER:OG	41:L4:13:GLY:O	2.16	0.56
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.87	0.56
53:M7:32:THR:HG21	53:M7:87:SER:HB3	1.86	0.56
64:N8:94:ALA:CB	64:N8:121:VAL:HG13	2.35	0.56
79:Q3:49:ARG:CD	79:Q3:50:GLY:H	2.18	0.56
1:6:696:C:H4'	1:6:697:C:C6	2.40	0.56
1:6:1042:G:N2	1:6:1077:C:O2	2.38	0.56
1:6:1473:U:H4'	7:s5:109:LYS:HE2	1.87	0.56
1:6:1557:U:OP2	1:6:1559:A:O2'	2.21	0.56
1:6:1724:U:O4	86:6:2091:OHX:N5	2.38	0.56
2:s0:60:ALA:O	2:s0:64:ILE:HG13	2.05	0.56
8:s6:200:ALA:O	8:s6:203:GLU:N	2.36	0.56
20:c8:26:ILE:HG12	20:c8:31:ALA:HB2	1.86	0.56
25:d3:83:VAL:HG21	25:d3:122:PHE:CE2	2.36	0.56
28:d6:44:ILE:HD13	28:d6:65:PRO:HG2	1.86	0.56
36:5:228:U:OP2	86:5:4128:OHX:N2	2.38	0.56
36:5:252:U:H4'	36:5:253:A:C5'	2.35	0.56
36:5:562:C:OP2	50:m4:77:ARG:NH1	2.38	0.56
36:5:917:A:OP2	86:5:4209:OHX:N1	2.38	0.56
36:5:1668:G:C6	36:5:1669:C:C4	2.93	0.56
36:5:2882:U:H2'	36:5:2883:U:C6	2.40	0.56
36:5:2916:U:H1'	59:n3:44:SER:HB3	1.86	0.56
36:5:3264:G:N2	36:5:3265:C:H1'	2.20	0.56
37:7:121:U:H5''	42:l5:265:TYR:CE1	2.38	0.56
39:l2:211:HIS:CD2	39:l2:219:ILE:HG23	2.40	0.56
41:l4:206:LEU:HD12	41:l4:248:VAL:HG22	1.86	0.56
41:l4:234:ASN:OD1	41:l4:236:LEU:N	2.34	0.56
43:l6:169:ASP:HB3	43:l6:174:LEU:HD11	1.86	0.56
48:m1:11:ASP:O	48:m1:12:LEU:HB3	2.04	0.56
54:m8:123:THR:OG1	54:m8:125:ASP:OD2	2.23	0.56
1:2:1:U:O2	1:2:369:A:H2'	2.04	0.56
1:2:218:A:O2'	1:2:219:A:OP1	2.20	0.56
1:2:260:U:H3'	1:2:261:U:H5''	1.87	0.56
1:2:514:G:O2'	1:2:515:A:H5'	2.06	0.56
1:2:572:C:H5''	25:D3:109:ARG:NH2	2.20	0.56
1:2:1327:C:C2	1:2:1328:G:C8	2.93	0.56
6:S4:18:TRP:HE3	6:S4:20:LEU:HD11	1.70	0.56
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.88	0.56
8:S6:78:THR:HG22	8:S6:79:LYS:H	1.69	0.56
13:C1:29:LYS:O	13:C1:31:THR:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C1:90:TYR:HD1	13:C1:90:TYR:C	2.14	0.56
16:C4:15:GLY:N	16:C4:78:ALA:O	2.39	0.56
33:E1:127:GLY:O	33:E1:129:GLY:N	2.37	0.56
36:1:578:A:H2'	41:L4:334:PHE:HD2	1.70	0.56
36:1:924:G:OP1	86:1:4140:OHX:N5	2.38	0.56
36:1:2163:C:O2	36:1:2171:G:N2	2.30	0.56
36:1:2244:A:H5''	39:L2:243:THR:OG1	2.05	0.56
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.86	0.56
36:1:3050:U:OP2	86:1:4178:OHX:N2	2.39	0.56
36:1:3309:G:O6	40:L3:21:ARG:NH2	2.38	0.56
36:1:3327:G:C2	36:1:3328:G:C8	2.94	0.56
37:3:62:U:H5''	42:L5:277:LEU:HD22	1.87	0.56
39:L2:242:ARG:NH1	39:L2:244:GLY:O	2.33	0.56
41:L4:89:ALA:C	41:L4:91:GLY:H	2.13	0.56
44:L7:166:ASN:OD1	44:L7:181:ILE:N	2.39	0.56
48:M1:26:SER:HB3	48:M1:64:LYS:O	2.05	0.56
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.05	0.56
53:M7:110:THR:OG1	53:M7:111:LYS:N	2.37	0.56
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.86	0.56
59:N3:80:ARG:HE	59:N3:97:ASP:CG	2.13	0.56
60:N4:4:GLU:HG2	60:N4:30:ARG:HD2	1.87	0.56
63:N7:88:ASP:OD1	63:N7:89:VAL:N	2.39	0.56
79:Q3:56:THR:HA	79:Q3:63:THR:HA	1.87	0.56
1:6:151:G:H22	1:6:163:G:N2	2.03	0.56
1:6:699:U:O4	86:6:2073:OHX:N1	2.37	0.56
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.71	0.56
2:s0:198:MET:HE2	2:s0:199:PRO:HD2	1.87	0.56
4:s2:157:LYS:HG2	4:s2:170:ILE:HG23	1.86	0.56
7:s5:33:VAL:HG13	7:s5:37:GLN:OE1	2.05	0.56
7:s5:208:SER:O	7:s5:210:ALA:N	2.39	0.56
10:s8:188:GLU:OE2	13:c1:15:LYS:NZ	2.35	0.56
12:c0:32:HIS:HA	12:c0:39:ASN:HD22	1.70	0.56
14:c2:48:SER:OG	14:c2:120:VAL:O	2.23	0.56
19:c7:104:ASN:O	19:c7:106:THR:N	2.36	0.56
20:c8:88:ARG:NH1	20:c8:112:ASP:OD2	2.38	0.56
36:5:252:U:H5'	45:l8:117:ALA:HB1	1.85	0.56
36:5:434:U:H6	36:5:434:U:O5'	1.88	0.56
36:5:760:G:H1'	36:5:770:G:N2	2.21	0.56
36:5:956:U:H2'	36:5:957:C:C6	2.40	0.56
36:5:2138:A:O2'	73:o7:3:LYS:HG2	2.05	0.56
36:5:2192:C:O2'	36:5:2312:A:N1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3309:G:O6	40:l3:21:ARG:NH2	2.37	0.56
86:5:4014:OHX:N5	86:5:4212:OHX:N2	2.53	0.56
37:7:1:G:O2'	42:l5:270:LYS:HB3	2.05	0.56
37:7:64:A:O5'	47:m0:206:LEU:HD22	2.05	0.56
38:8:95:G:OP1	73:o7:76:ASN:ND2	2.37	0.56
40:l3:215:ILE:HD13	40:l3:282:ILE:HD11	1.88	0.56
46:l9:92:TYR:CG	46:l9:142:ASP:HB3	2.40	0.56
51:m5:96:ARG:HG2	51:m5:96:ARG:NH1	2.20	0.56
52:m6:12:LYS:HG2	52:m6:40:GLU:HB3	1.86	0.56
52:m6:61:ALA:HA	52:m6:70:PRO:HD2	1.88	0.56
73:o7:76:ASN:O	73:o7:79:GLN:HG3	2.06	0.56
1:2:17:C:H2'	1:2:18:C:C6	2.39	0.56
1:2:1337:A:H5'	1:2:1338:C:OP2	2.06	0.56
3:S1:169:SER:O	3:S1:173:THR:OG1	2.24	0.56
9:S7:137:GLY:HA2	15:C3:18:TYR:CZ	2.40	0.56
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	1.88	0.56
26:D4:5:VAL:HG12	26:D4:6:THR:H	1.70	0.56
36:1:1306:G:C6	52:M6:62:THR:HA	2.40	0.56
36:1:1729:A:OP1	66:O0:88:GLY:N	2.38	0.56
36:1:2107:A:H2	36:1:3344:A:H8	1.54	0.56
36:1:2167:A:H8	36:1:2167:A:O5'	1.89	0.56
53:M7:67:ILE:CG2	53:M7:80:LYS:HB3	2.35	0.56
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.87	0.56
69:O3:49:ILE:O	69:O3:69:GLY:N	2.38	0.56
78:Q2:55:LYS:HD2	78:Q2:56:PRO:HD3	1.87	0.56
1:6:484:C:H42	1:6:503:G:H1	1.54	0.56
1:6:1657:U:H4'	1:6:1658:G:OP2	2.06	0.56
1:6:1725:U:H2'	1:6:1726:G:O4'	2.06	0.56
8:s6:139:ASN:HA	8:s6:142:ARG:HB2	1.88	0.56
35:sM:49:LYS:HZ3	35:sM:53:ARG:HH12	1.53	0.56
36:5:1506:A:H1'	36:5:1848:G:O6	2.05	0.56
50:m4:119:GLN:O	50:m4:123:LEU:HG	2.05	0.56
52:m6:56:ASP:HA	52:m6:59:ARG:HD2	1.86	0.56
58:n2:21:SER:HB3	58:n2:107:PHE:HB2	1.86	0.56
68:o2:79:VAL:HG13	68:o2:111:ARG:HG2	1.88	0.56
70:o4:42:PRO:HD3	70:o4:56:THR:HG22	1.86	0.56
1:2:1228:G:P	14:C2:119:SER:HB3	2.45	0.56
1:2:1660:A:H2'	1:2:1661:U:C6	2.41	0.56
6:S4:143:ASP:OD1	6:S4:145:ARG:NE	2.33	0.56
15:C3:55:ARG:HD3	29:D7:47:PHE:CG	2.41	0.56
18:C6:113:ASP:OD2	18:C6:116:LEU:N	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:41:ILE:HG12	19:C7:50:ILE:HD12	1.87	0.56
24:D2:22:LYS:HA	29:D7:3:LEU:HD22	1.87	0.56
26:D4:29:HIS:CE1	26:D4:34:ASN:H	2.23	0.56
35:SM:37:VAL:HG12	35:SM:38:PRO:O	2.06	0.56
36:1:321:C:H2'	36:1:322:U:H6	1.70	0.56
36:1:1095:U:C2	57:N1:127:GLN:HG2	2.41	0.56
36:1:2339:C:P	59:N3:48:ARG:HG3	2.46	0.56
42:L5:21:ARG:O	42:L5:25:GLU:HG3	2.06	0.56
44:L7:127:LEU:C	44:L7:129:LEU:H	2.13	0.56
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.87	0.56
48:M1:92:ARG:HB2	48:M1:94:ARG:HG2	1.88	0.56
52:M6:115:LYS:O	52:M6:117:ARG:NH1	2.39	0.56
54:M8:67:ILE:HG12	54:M8:81:VAL:HG21	1.86	0.56
69:O3:8:TYR:HB2	69:O3:100:ILE:O	2.05	0.56
69:O3:88:ASN:OD1	69:O3:88:ASN:N	2.37	0.56
70:O4:84:CYS:O	70:O4:88:ARG:HB3	2.06	0.56
1:6:158:U:O4	1:6:420:A:H4'	2.06	0.56
1:6:637:C:O2	9:s7:114:ARG:NH2	2.35	0.56
2:s0:139:VAL:HG23	4:s2:62:PRO:HG3	1.88	0.56
11:s9:107:ARG:HH22	11:s9:153:GLU:HG3	1.70	0.56
19:c7:31:ASN:HD21	19:c7:55:THR:HG22	1.70	0.56
24:d2:103:ILE:HA	24:d2:112:ASP:HA	1.88	0.56
28:d6:82:ARG:HB2	28:d6:85:ARG:NE	2.21	0.56
34:sR:70:ASP:HB3	34:sR:113:VAL:HG12	1.86	0.56
36:5:563:U:H2'	36:5:564:G:H8	1.70	0.56
36:5:852:U:O2'	36:5:853:G:H5'	2.05	0.56
36:5:1021:G:O6	36:5:1030:A:N6	2.39	0.56
36:5:1249:G:H2'	36:5:1250:G:H8	1.70	0.56
40:l3:65:SER:O	40:l3:67:PHE:N	2.39	0.56
46:l9:43:VAL:HG23	46:l9:57:VAL:HG23	1.87	0.56
63:n7:11:ALA:HB1	63:n7:80:LEU:HD22	1.87	0.56
64:n8:125:VAL:HG21	64:n8:138:ILE:HD13	1.88	0.56
69:o3:38:PRO:HG2	69:o3:39:GLN:OE1	2.05	0.56
1:2:1341:A:O2'	34:SR:102:ARG:NH2	2.39	0.56
3:S1:157:GLN:HB2	3:S1:160:HIS:ND1	2.20	0.56
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	1.86	0.56
20:C8:94:ASP:OD1	20:C8:98:TYR:OH	2.12	0.56
21:C9:86:ARG:HH11	21:C9:86:ARG:HG3	1.71	0.56
23:D1:5:LYS:O	23:D1:7:GLN:N	2.39	0.56
23:D1:71:ARG:HG2	23:D1:75:ASN:ND2	2.21	0.56
25:D3:28:ASN:OD1	25:D3:28:ASN:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.71	0.56
30:D8:36:THR:OG1	30:D8:37:SER:N	2.36	0.56
34:SR:214:ALA:HB2	34:SR:220:ILE:HG23	1.88	0.56
36:1:2107:A:H2	36:1:3344:A:C8	2.23	0.56
36:1:2320:A:C2	79:Q3:16:VAL:HG12	2.40	0.56
47:M0:185:ARG:HH21	47:M0:186:GLU:HG3	1.69	0.56
62:N6:18:ALA:O	62:N6:22:ALA:HB2	2.06	0.56
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.21	0.56
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.70	0.56
6:s4:127:LYS:HE2	6:s4:127:LYS:HA	1.87	0.56
17:c5:127:ARG:H	35:sM:71:ASN:HD21	1.53	0.56
28:d6:90:GLU:CD	28:d6:90:GLU:H	2.14	0.56
36:5:434:U:H2'	36:5:435:C:C6	2.39	0.56
36:5:883:A:H2'	36:5:921:A:C2	2.41	0.56
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.31	0.56
46:l9:94:TYR:CE2	46:l9:98:PRO:HA	2.39	0.56
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.40	0.56
52:m6:195:ALA:O	52:m6:198:GLY:N	2.36	0.56
1:2:189:C:H2'	1:2:190:C:H5'	1.87	0.56
1:2:1067:C:H2'	1:2:1068:C:C6	2.41	0.56
1:2:1240:U:H2'	1:2:1241:G:H5''	1.86	0.56
6:S4:16:HIS:C	6:S4:18:TRP:H	2.14	0.56
27:D5:93:SER:OG	27:D5:94:LYS:N	2.38	0.56
28:D6:84:VAL:HG13	28:D6:85:ARG:N	2.20	0.56
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.87	0.56
35:SM:73:SER:OG	35:SM:74:LYS:N	2.37	0.56
36:1:1612:A:H5''	74:O8:51:LEU:HD23	1.87	0.56
36:1:3254:G:O6	86:1:4050:OHX:N5	2.39	0.56
36:1:3278:C:H2'	36:1:3278:C:O2	2.04	0.56
40:L3:284:ARG:HB3	40:L3:323:MET:HE2	1.87	0.56
40:L3:387:LEU:O	86:L3:406:OHX:N4	2.39	0.56
42:L5:61:ILE:HG12	42:L5:79:TYR:CD1	2.41	0.56
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.40	0.56
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	1.87	0.56
1:6:1402:G:OP2	19:c7:5:ARG:NH1	2.38	0.56
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	1.88	0.56
28:d6:42:ARG:HH21	28:d6:42:ARG:CB	2.14	0.56
36:5:894:G:N2	36:5:1660:C:OP1	2.38	0.56
36:5:1063:G:OP2	36:5:1097:G:H5''	2.06	0.56
36:5:1919:G:N7	86:5:4066:OHX:N4	2.54	0.56
41:l4:261:VAL:O	41:l4:271:LYS:HE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:188:THR:HG22	46:l9:189:GLU:H	1.70	0.56
81:p0:25:LEU:HD13	81:p0:88:PHE:CE2	2.39	0.56
1:2:365:G:N7	86:2:2105:OHX:N5	2.53	0.56
1:2:396:G:H22	1:2:399:A:H5'	1.71	0.56
1:2:1490:C:H4'	1:2:1491:U:OP1	2.06	0.56
1:2:1649:G:N7	86:2:2050:OHX:N1	2.54	0.56
4:S2:95:ARG:HB3	4:S2:97:ARG:HD3	1.88	0.56
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.71	0.56
7:S5:40:ILE:HG12	7:S5:41:LYS:N	2.19	0.56
9:S7:13:PRO:HB2	9:S7:14:THR:HB	1.87	0.56
10:S8:84:HIS:HE1	10:S8:86:SER:HB2	1.71	0.56
18:C6:83:GLN:HE22	18:C6:119:ALA:HB2	1.70	0.56
20:C8:63:GLN:HA	20:C8:66:LEU:HD12	1.87	0.56
25:D3:23:ARG:O	25:D3:26:GLU:HB2	2.06	0.56
36:1:999:G:O2'	36:1:1000:C:H5'	2.06	0.56
36:1:1599:G:OP1	86:1:4080:OHX:N5	2.39	0.56
36:1:1721:U:O4	55:M9:128:LYS:NZ	2.38	0.56
36:1:2503:G:H1'	36:1:2504:U:H5	1.70	0.56
36:1:2548:C:OP2	39:L2:93:LYS:NZ	2.38	0.56
36:1:3192:U:O4	86:1:4124:OHX:N1	2.39	0.56
36:1:3276:G:N7	53:M7:171:ARG:NH1	2.54	0.56
42:L5:279:LYS:HG2	42:L5:282:ARG:NH1	2.21	0.56
44:L7:89:ILE:HG22	44:L7:219:LYS:HE3	1.87	0.56
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	1.87	0.56
1:6:345:U:H1'	1:6:346:G:C8	2.41	0.56
1:6:1232:U:H2'	1:6:1233:G:O4'	2.06	0.56
4:s2:175:GLY:O	11:s9:53:ARG:NH2	2.38	0.56
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.86	0.56
5:s3:101:GLN:HA	5:s3:104:SER:HB3	1.88	0.56
8:s6:7:TYR:CE1	8:s6:125:THR:HA	2.41	0.56
36:5:345:G:OP1	36:5:1429:G:N1	2.35	0.56
36:5:1727:G:P	79:q3:44:LYS:HE2	2.46	0.56
36:5:2147:A:H2'	36:5:2148:U:O4'	2.06	0.56
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.38	0.56
86:5:3935:OHX:N1	86:5:4228:OHX:N3	2.54	0.56
37:7:28:C:H1'	37:7:55:A:H61	1.71	0.56
38:8:27:U:H4'	41:l4:51:ALA:HB3	1.86	0.56
52:m6:171:LYS:O	52:m6:174:PHE:HB3	2.04	0.56
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	1.87	0.56
65:n9:49:GLY:HA2	65:n9:52:LYS:HB3	1.87	0.56
74:o8:46:ARG:HG3	74:o8:47:GLY:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:q3:86:LEU:O	79:q3:90:VAL:HG13	2.06	0.56
1:2:141:U:H5	8:S6:179:VAL:HG23	1.71	0.56
1:2:1059:U:O2'	1:2:1060:U:N3	2.39	0.56
1:2:1599:C:O2	86:2:2110:OHX:N1	2.39	0.56
7:S5:222:LYS:HG2	7:S5:225:ARG:NH2	2.21	0.56
36:1:534:U:O2	56:N0:146:LYS:HA	2.06	0.56
36:1:1456:A:N1	36:1:1476:G:O2'	2.33	0.56
36:1:2841:G:OP2	86:1:4139:OHX:N2	2.39	0.56
43:L6:130:ILE:HG21	43:L6:135:VAL:HG23	1.87	0.56
50:M4:59:ASN:OD1	50:M4:60:LEU:N	2.39	0.56
53:M7:116:HIS:O	53:M7:149:VAL:N	2.39	0.56
55:M9:84:THR:O	55:M9:87:ALA:N	2.33	0.56
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.21	0.56
62:N6:28:ARG:HB2	62:N6:75:ARG:HH21	1.71	0.56
69:O3:21:ARG:HG3	69:O3:21:ARG:NH1	2.15	0.56
71:O5:21:LEU:HD11	71:O5:55:LEU:HD21	1.88	0.56
1:6:578:U:O2	86:6:2154:OHX:N5	2.39	0.56
1:6:755:A:O2'	1:6:756:A:OP1	2.17	0.56
1:6:1225:U:O2	1:6:1230:A:O2'	2.24	0.56
22:d0:118:VAL:HG13	22:d0:119:ALA:H	1.70	0.56
36:5:1066:G:OP1	86:5:4222:OHX:N2	2.37	0.56
48:m1:47:GLN:OE1	48:m1:64:LYS:HD2	2.06	0.56
48:m1:143:ARG:O	48:m1:144:CYS:HB2	2.06	0.56
66:o0:101:LEU:H	66:o0:101:LEU:HD22	1.71	0.56
1:2:453:U:O4	86:2:2038:OHX:N5	2.39	0.56
1:2:512:A:OP2	11:S9:172:VAL:HG13	2.06	0.56
1:2:611:U:OP1	25:D3:19:ARG:NH2	2.38	0.56
1:2:992:A:H2'	1:2:993:A:H5'	1.87	0.56
1:2:1476:C:H2'	1:2:1477:G:C8	2.39	0.56
3:S1:62:LYS:O	3:S1:64:ARG:N	2.39	0.56
6:S4:171:ASP:OD1	6:S4:172:PHE:N	2.39	0.56
13:C1:109:VAL:HG21	13:C1:139:VAL:H	1.70	0.56
20:C8:27:LYS:H	20:C8:57:ARG:NH2	2.04	0.56
36:1:796:U:H2'	36:1:797:U:C6	2.41	0.56
36:1:944:C:H4'	68:O2:33:ARG:CZ	2.35	0.56
36:1:1171:G:N7	86:1:3951:OHX:N5	2.53	0.56
36:1:2533:G:H2'	36:1:2534:G:O4'	2.06	0.56
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.88	0.56
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	1.88	0.56
55:M9:109:TYR:C	55:M9:115:ILE:HG22	2.31	0.56
73:O7:72:ARG:O	73:O7:75:LYS:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:2:A:C8	1:6:370:A:H1'	2.40	0.56
1:6:250:C:H5'	1:6:250:C:H6	1.71	0.56
1:6:809:A:C6	1:6:810:G:C6	2.94	0.56
1:6:1380:U:H2'	1:6:1381:U:C6	2.41	0.56
1:6:1579:U:H2'	1:6:1580:C:C6	2.40	0.56
86:6:2120:OHX:N2	86:6:2171:OHX:N1	2.53	0.56
3:s1:149:GLN:NE2	3:s1:151:LYS:HG2	2.21	0.56
5:s3:167:PHE:O	5:s3:190:ARG:HG2	2.06	0.56
80:e0:20:LYS:HD2	80:e0:21:VAL:H	1.70	0.56
36:5:31:C:OP2	51:m5:188:ARG:NH2	2.39	0.56
36:5:1941:C:O2'	36:5:3344:A:N1	2.36	0.56
40:l3:44:THR:OG1	40:l3:182:GLN:O	2.23	0.56
41:l4:122:THR:HG22	41:l4:235:LEU:HB2	1.87	0.56
46:l9:106:LYS:O	46:l9:109:ALA:HB2	2.05	0.56
48:m1:114:ILE:HG22	48:m1:115:LYS:O	2.06	0.56
51:m5:116:LEU:HD12	51:m5:151:ILE:HD13	1.88	0.56
1:2:567:A:O2'	25:D3:90:ASP:OD2	2.19	0.55
1:2:604:A:OP2	86:2:2168:OHX:N5	2.39	0.55
1:2:770:A:OP2	86:2:2138:OHX:N6	2.40	0.55
1:2:808:U:H2'	1:2:809:A:C8	2.40	0.55
1:2:1745:G:O6	86:2:2085:OHX:N6	2.39	0.55
5:S3:101:GLN:O	5:S3:104:SER:OG	2.15	0.55
18:C6:66:ARG:HD2	18:C6:68:ARG:HG3	1.87	0.55
20:C8:81:ILE:HG23	20:C8:82:PRO:HD2	1.87	0.55
23:D1:27:ASP:HA	23:D1:29:HIS:NE2	2.21	0.55
35:SM:102:THR:HG23	35:SM:105:LYS:HB2	1.88	0.55
36:1:197:G:H2'	36:1:198:A:C8	2.41	0.55
36:1:1609:C:H5''	61:N5:125:ARG:NH1	2.21	0.55
37:3:47:C:H2'	37:3:48:U:H6	1.72	0.55
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.05	0.55
44:L7:40:LYS:HD3	44:L7:170:GLU:OE1	2.06	0.55
51:M5:88:GLY:HA2	78:Q2:50:PHE:CE1	2.41	0.55
5:s3:11:LEU:HD12	22:d0:86:ILE:HG12	1.88	0.55
5:s3:162:GLN:N	5:s3:163:PRO:HD2	2.21	0.55
36:5:1307:G:C2	36:5:1308:A:C2	2.94	0.55
36:5:2726:C:O2'	36:5:2727:A:H2'	2.05	0.55
37:7:107:C:H2'	37:7:108:A:C8	2.41	0.55
41:l4:327:LEU:HD11	44:l7:165:ASP:HA	1.87	0.55
42:l5:278:SER:O	42:l5:280:GLU:N	2.39	0.55
47:m0:38:LYS:HG3	47:m0:41:ALA:HB2	1.88	0.55
53:m7:116:HIS:HB3	53:m7:149:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:82:ASN:HA	65:n9:21:ILE:HD12	1.88	0.55
63:n7:25:ILE:HG13	63:n7:43:VAL:HG12	1.88	0.55
64:n8:25:HIS:C	64:n8:25:HIS:CD2	2.83	0.55
67:o1:74:ARG:HH12	67:o1:109:VAL:HG11	1.69	0.55
67:o1:84:ASP:OD1	67:o1:84:ASP:N	2.37	0.55
71:o5:86:ARG:HG3	71:o5:90:ARG:CZ	2.36	0.55
1:2:40:A:H2'	1:2:41:A:O4'	2.07	0.55
1:2:615:A:H2'	1:2:616:G:H8	1.71	0.55
1:2:951:A:H1'	15:C3:101:HIS:CD2	2.41	0.55
1:2:1338:C:OP1	18:C6:12:LYS:NZ	2.37	0.55
1:2:1756:A:H8	1:2:1756:A:O5'	1.89	0.55
1:2:1795:U:H5'	28:D6:79:ILE:HD11	1.88	0.55
4:S2:174:ARG:HH12	11:S9:94:ASP:HB3	1.71	0.55
21:C9:14:PHE:HD2	21:C9:15:ILE:HD12	1.71	0.55
25:D3:84:THR:O	25:D3:120:VAL:HG13	2.07	0.55
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.41	0.55
36:1:407:A:C2	38:4:17:A:H1'	2.40	0.55
36:1:1362:G:O2'	44:L7:159:GLN:O	2.16	0.55
36:1:1927:G:P	79:Q3:6:LYS:H	2.29	0.55
36:1:2503:G:HO2'	36:1:2504:U:H5	1.53	0.55
36:1:2986:U:H2'	36:1:2987:A:H8	1.71	0.55
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.88	0.55
46:L9:174:LYS:HG3	46:L9:175:PHE:CD2	2.41	0.55
47:M0:169:LYS:HD3	57:N1:159:PHE:HA	1.88	0.55
62:N6:34:PRO:HA	62:N6:47:ALA:HA	1.89	0.55
66:O0:27:TYR:OH	66:O0:55:GLU:OE1	2.19	0.55
73:O7:18:LEU:HA	73:O7:25:ARG:N	2.22	0.55
74:O8:65:LEU:HD23	74:O8:68:SER:HB2	1.88	0.55
1:6:1:U:C4	1:6:369:A:C6	2.94	0.55
1:6:921:U:O4	86:6:2179:OHX:N3	2.39	0.55
1:6:1309:C:H2'	1:6:1310:U:O4'	2.05	0.55
1:6:1489:U:H5'	1:6:1494:C:H1'	1.87	0.55
13:c1:94:ILE:HD11	25:d3:16:ARG:HH21	1.70	0.55
17:c5:127:ARG:HE	17:c5:130:ARG:HE	1.54	0.55
20:c8:13:HIS:O	20:c8:14:ILE:HG22	2.06	0.55
30:d8:32:PHE:O	30:d8:34:GLU:N	2.38	0.55
36:5:421:G:O6	36:5:2383:C:O2'	2.15	0.55
36:5:528:U:H2'	36:5:529:A:C8	2.41	0.55
36:5:1662:G:O6	86:5:3912:OHX:N1	2.38	0.55
36:5:3274:A:H3'	36:5:3275:U:C5'	2.27	0.55
86:5:3995:OHX:N3	44:l7:217:PRO:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:191:LYS:O	47:m0:197:VAL:HG22	2.05	0.55
64:n8:104:THR:HG21	64:n8:112:ILE:HD11	1.87	0.55
1:2:107:C:H42	1:2:307:G:H1	1.54	0.55
1:2:1239:U:O4	86:2:2046:OHX:N2	2.39	0.55
1:2:1619:C:H2'	1:2:1620:C:C6	2.41	0.55
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	1.87	0.55
8:S6:76:LEU:HD22	8:S6:92:ARG:HB3	1.89	0.55
16:C4:61:MET:O	16:C4:65:GLN:N	2.39	0.55
23:D1:31:SER:HB2	23:D1:55:LEU:O	2.06	0.55
36:1:1227:C:H42	36:1:1282:G:H1	1.53	0.55
40:L3:161:LEU:HD22	40:L3:178:LEU:HD11	1.88	0.55
42:L5:144:VAL:O	42:L5:173:VAL:HG13	2.06	0.55
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.71	0.55
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.39	0.55
1:6:235:G:H2'	1:6:236:A:H8	1.70	0.55
1:6:419:G:N7	86:6:2117:OHX:N1	2.54	0.55
1:6:542:A:C8	1:6:543:C:H2'	2.42	0.55
2:s0:126:PRO:HB2	2:s0:152:PRO:HG2	1.89	0.55
8:s6:121:LEU:H	8:s6:125:THR:HG1	1.54	0.55
11:s9:123:HIS:ND1	80:e0:37:ARG:HD2	2.20	0.55
18:c6:110:THR:HA	18:c6:113:ASP:HB2	1.88	0.55
22:d0:53:LYS:HB2	22:d0:92:ASP:HB2	1.87	0.55
36:5:325:A:H5''	36:5:326:U:OP2	2.06	0.55
36:5:1901:A:H5''	36:5:1902:G:OP2	2.07	0.55
36:5:2768:U:H2'	36:5:2769:A:C8	2.42	0.55
36:5:3044:G:H2'	36:5:3045:G:C8	2.41	0.55
36:5:3244:A:N1	40:l3:97:ARG:NH1	2.54	0.55
41:l4:82:THR:HG23	41:l4:84:ARG:H	1.72	0.55
42:l5:156:GLY:HA2	42:l5:181:PRO:HD3	1.89	0.55
62:n6:58:VAL:HB	62:n6:63:LYS:O	2.06	0.55
1:2:145:A:O2'	1:2:146:U:O5'	2.23	0.55
2:S0:125:ASP:O	2:S0:128:SER:N	2.39	0.55
3:S1:181:LEU:O	3:S1:183:GLN:N	2.39	0.55
4:S2:177:GLY:HA2	4:S2:194:GLU:O	2.06	0.55
19:C7:41:ILE:HG22	19:C7:43:SER:H	1.72	0.55
34:SR:289:ALA:HA	34:SR:305:TYR:HA	1.88	0.55
35:SM:85:SER:O	35:SM:87:THR:N	2.39	0.55
36:1:579:G:OP2	36:1:579:G:H4'	2.06	0.55
36:1:1276:U:OP1	86:1:4081:OHX:N1	2.40	0.55
36:1:3254:G:H2'	36:1:3255:U:O4'	2.07	0.55
37:3:24:A:C2'	37:3:25:G:H5'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:200:LEU:HD23	47:M0:202:LYS:HE3	1.87	0.55
48:M1:47:GLN:HG2	48:M1:67:VAL:HG12	1.88	0.55
51:M5:106:VAL:HG11	51:M5:132:VAL:HG21	1.89	0.55
54:M8:157:PRO:HA	54:M8:186:VAL:HG12	1.88	0.55
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.06	0.55
56:N0:131:LYS:HG3	56:N0:134:ASP:OD2	2.05	0.55
57:N1:7:TYR:OH	57:N1:54:HIS:HB2	2.07	0.55
58:N2:27:VAL:HG21	58:N2:107:PHE:HE1	1.72	0.55
59:N3:33:ASN:HD21	59:N3:64:LYS:H	1.54	0.55
64:N8:60:TYR:CG	64:N8:63:LYS:HE3	2.40	0.55
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.06	0.55
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.88	0.55
1:6:301:A:H2'	1:6:302:U:O4'	2.05	0.55
1:6:403:G:H8	1:6:403:G:P	2.29	0.55
1:6:700:C:H2'	1:6:701:U:C6	2.41	0.55
1:6:1273:G:H4'	1:6:1274:C:H5''	1.89	0.55
24:d2:27:ILE:HB	24:d2:61:ILE:HB	1.88	0.55
26:d4:49:LYS:HD3	26:d4:49:LYS:N	2.22	0.55
36:5:123:A:OP1	45:l8:105:LYS:NZ	2.26	0.55
36:5:665:A:H1'	49:m3:14:PHE:CE1	2.41	0.55
36:5:1765:U:OP1	36:5:1765:U:H4'	2.06	0.55
36:5:2303:A:P	77:q1:23:ARG:HH22	2.29	0.55
47:m0:93:PRO:HB2	47:m0:125:LEU:HB2	1.88	0.55
1:2:505:A:H2'	1:2:505:A:N3	2.21	0.55
1:2:625:C:H2'	1:2:626:U:C6	2.41	0.55
1:2:929:A:H1'	16:C4:124:ASP:H	1.71	0.55
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.42	0.55
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.88	0.55
6:S4:49:ARG:HH11	6:S4:50:ASN:HD21	1.53	0.55
7:S5:72:HIS:O	18:C6:79:TYR:OH	2.24	0.55
13:C1:92:HIS:CG	13:C1:93:TYR:N	2.66	0.55
36:1:317:A:C2	36:1:318:A:C4	2.94	0.55
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.88	0.55
36:1:2585:G:N3	38:4:151:C:H5	2.05	0.55
36:1:3078:U:H2'	36:1:3078:U:O2	2.06	0.55
86:1:3998:OHX:N3	86:1:4169:OHX:N5	2.55	0.55
38:4:104:A:C8	38:4:105:A:C8	2.95	0.55
62:N6:109:LEU:HD22	62:N6:115:ARG:NH1	2.20	0.55
72:O6:26:ILE:C	72:O6:28:TYR:N	2.63	0.55
76:Q0:98:LYS:HD2	76:Q0:118:THR:HG21	1.88	0.55
2:s0:79:ARG:O	2:s0:83:GLN:NE2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:33:ARG:HG3	13:c1:33:ARG:HH21	1.71	0.55
36:5:836:A:O2'	79:q3:9:GLY:O	2.19	0.55
36:5:914:A:C2	39:l2:204:MET:HG2	2.42	0.55
48:m1:107:ASP:HA	48:m1:124:GLY:HA2	1.89	0.55
58:n2:87:ASN:HB2	58:n2:89:LEU:HD11	1.89	0.55
71:o5:57:VAL:HA	71:o5:60:GLU:HG3	1.89	0.55
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.39	0.55
1:2:82:U:H2'	1:2:83:G:O4'	2.05	0.55
1:2:1041:G:H2'	1:2:1042:G:C8	2.41	0.55
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.71	0.55
7:S5:156:ARG:HB2	7:S5:156:ARG:HH11	1.72	0.55
9:S7:141:ARG:NH2	9:S7:143:LEU:HD11	2.22	0.55
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	1.88	0.55
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.05	0.55
35:SM:102:THR:OG1	35:SM:103:LYS:N	2.40	0.55
36:1:402:A:OP1	75:O9:36:ARG:NH2	2.40	0.55
36:1:1729:A:N1	79:Q3:42:CYS:HB3	2.22	0.55
36:1:2376:G:H2'	36:1:2377:G:C8	2.42	0.55
36:1:2415:C:OP1	39:L2:2:GLY:HA2	2.06	0.55
36:1:2514:U:H6	36:1:2514:U:OP1	1.90	0.55
36:1:3165:A:H2'	36:1:3166:C:C6	2.42	0.55
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.41	0.55
37:3:3:U:H2'	37:3:4:U:C6	2.42	0.55
39:L2:233:GLN:O	39:L2:235:ALA:N	2.39	0.55
1:6:463:U:OP1	86:6:2204:OHX:N1	2.40	0.55
1:6:675:U:H2'	1:6:676:G:C8	2.41	0.55
1:6:1339:C:O2'	1:6:1341:A:N7	2.40	0.55
1:6:1460:A:P	35:sM:68:ARG:HD3	2.47	0.55
1:6:1511:U:H2'	1:6:1512:G:C8	2.42	0.55
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.40	0.55
36:5:59:G:H4'	36:5:60:A:H4'	1.89	0.55
36:5:304:G:H5'	36:5:304:G:N3	2.20	0.55
36:5:1192:C:H41	36:5:1302:A:P	2.30	0.55
36:5:1560:G:H2'	36:5:1561:G:C8	2.42	0.55
36:5:1700:G:H1	36:5:1745:C:H42	1.55	0.55
36:5:1819:U:H2'	36:5:1820:U:H5'	1.88	0.55
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.39	0.55
38:8:122:U:H2'	38:8:123:G:H8	1.71	0.55
40:l3:59:ASP:OD1	40:l3:357:LYS:NZ	2.32	0.55
42:l5:69:ILE:H	42:l5:69:ILE:HD12	1.70	0.55
46:l9:86:TYR:CZ	46:l9:151:VAL:HG22	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:101:VAL:HG22	46:l9:114:VAL:HG22	1.88	0.55
61:n5:51:VAL:HG11	71:o5:62:GLN:HB3	1.89	0.55
1:2:763:G:C6	1:2:764:U:C4	2.95	0.55
1:2:1145:U:O2'	4:S2:89:GLN:O	2.17	0.55
1:2:1234:A:O2'	33:E1:146:SER:HB3	2.06	0.55
1:2:1588:G:H1	1:2:1608:U:H3	1.54	0.55
2:S0:75:ALA:HB1	2:S0:86:VAL:HG12	1.88	0.55
6:S4:105:VAL:HG22	6:S4:243:GLY:HA2	1.87	0.55
6:S4:194:THR:O	6:S4:195:ILE:HB	2.07	0.55
14:C2:36:LEU:HD11	14:C2:101:ALA:O	2.07	0.55
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.42	0.55
29:D7:54:VAL:O	29:D7:63:LEU:HB2	2.07	0.55
36:1:1434:G:O2'	36:1:1435:A:H5'	2.07	0.55
36:1:1657:C:C5	36:1:1797:A:H5''	2.42	0.55
36:1:2224:A:N1	36:1:2783:U:O2'	2.35	0.55
37:3:89:G:N2	37:3:92:A:OP2	2.40	0.55
43:L6:51:ARG:HD3	43:L6:158:TYR:CZ	2.42	0.55
56:N0:1:MET:HE1	56:N0:32:SER:N	2.21	0.55
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.72	0.55
65:N9:46:ALA:O	65:N9:50:THR:HG23	2.06	0.55
73:O7:14:LYS:HD2	75:O9:51:ILE:HD11	1.89	0.55
1:6:745:U:O4	9:s7:104:ARG:NH1	2.39	0.55
1:6:1178:G:H4'	35:sM:83:LYS:NZ	2.21	0.55
1:6:1335:U:H2'	1:6:1336:A:H8	1.72	0.55
1:6:1454:G:O3'	17:c5:122:THR:OG1	2.23	0.55
1:6:1595:U:N3	1:6:1600:A:H2	1.93	0.55
6:s4:163:ASP:OD1	6:s4:164:LEU:N	2.37	0.55
12:c0:53:GLY:O	12:c0:55:VAL:N	2.40	0.55
16:c4:29:HIS:CG	16:c4:41:ARG:HG3	2.42	0.55
22:d0:27:THR:HG23	22:d0:113:ASP:HB3	1.87	0.55
36:5:247:C:C4	36:5:248:U:H1'	2.42	0.55
36:5:1114:U:H5''	64:n8:22:ILE:HG13	1.87	0.55
36:5:1549:U:H2'	36:5:1550:C:C6	2.42	0.55
36:5:1597:C:H2'	36:5:1598:G:C8	2.38	0.55
36:5:2586:G:N7	45:l8:241:LYS:HB2	2.22	0.55
36:5:3178:A:N3	52:m6:115:LYS:HG2	2.21	0.55
43:l6:131:LYS:HE2	43:l6:131:LYS:HA	1.89	0.55
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.42	0.55
49:m3:68:LYS:HE3	49:m3:149:GLN:NE2	2.22	0.55
61:n5:86:VAL:HG21	61:n5:95:ILE:HG12	1.89	0.55
78:q2:28:TYR:CE1	78:q2:30:ALA:HA	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:234:G:C6	1:2:235:G:H1'	2.42	0.55
3:S1:147:ALA:O	3:S1:148:ASN:HB3	2.06	0.55
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.87	0.55
7:S5:53:VAL:HB	7:S5:59:VAL:HG22	1.88	0.55
7:S5:163:SER:O	7:S5:167:ARG:HB2	2.07	0.55
13:C1:90:TYR:C	13:C1:90:TYR:CD1	2.84	0.55
19:C7:32:LYS:HD2	19:C7:47:ARG:HH11	1.71	0.55
19:C7:82:ASP:O	19:C7:83:GLN:HB2	2.07	0.55
25:D3:13:ARG:HA	25:D3:16:ARG:HD3	1.88	0.55
36:1:291:C:OP1	51:M5:68:ARG:NH1	2.40	0.55
36:1:361:A:H5'	73:O7:35:SER:OG	2.06	0.55
36:1:603:A:H2'	36:1:604:G:O4'	2.06	0.55
36:1:735:A:H2'	36:1:736:A:C8	2.40	0.55
36:1:1780:G:H2'	36:1:1781:C:C6	2.40	0.55
36:1:2723:U:H2'	36:1:2724:U:C6	2.41	0.55
36:1:2942:C:O2	86:1:4130:OHX:N3	2.40	0.55
40:L3:287:LYS:HA	40:L3:320:ASP:HB3	1.89	0.55
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.36	0.55
44:L7:83:LEU:HD21	44:L7:116:PHE:HD1	1.71	0.55
44:L7:182:ASP:HA	44:L7:185:ILE:HD12	1.88	0.55
45:L8:147:LYS:O	45:L8:201:THR:HB	2.06	0.55
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.25	0.55
51:M5:124:ASP:OD2	51:M5:125:SER:N	2.39	0.55
60:N4:1:MET:HE3	60:N4:15:PRO:HG3	1.89	0.55
64:N8:64:GLN:HG3	64:N8:67:HIS:CD2	2.42	0.55
69:O3:37:THR:HG23	69:O3:40:ASP:HB2	1.88	0.55
76:Q0:96:CYS:C	76:Q0:98:LYS:H	2.15	0.55
1:6:1553:G:H4'	31:d9:14:TYR:HE1	1.71	0.55
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.88	0.55
4:s2:144:TRP:CZ2	24:d2:97:ARG:HD2	2.41	0.55
4:s2:170:ILE:O	4:s2:196:VAL:HG23	2.05	0.55
6:s4:161:LYS:HB3	6:s4:170:THR:O	2.06	0.55
8:s6:132:ARG:HB3	8:s6:133:LEU:HD12	1.88	0.55
8:s6:148:SER:O	8:s6:151:ASP:HB2	2.07	0.55
12:c0:34:GLU:O	12:c0:35:ILE:HB	2.07	0.55
15:c3:13:SER:O	29:d7:20:LYS:NZ	2.39	0.55
15:c3:128:TYR:O	15:c3:132:VAL:HG22	2.06	0.55
35:sM:54:PRO:HB2	35:sM:59:GLY:HA2	1.88	0.55
36:5:1447:G:H3'	53:m7:67:ILE:HD11	1.88	0.55
36:5:2796:G:H4'	36:5:2798:C:C6	2.42	0.55
48:m1:75:LYS:O	48:m1:79:ILE:HG13	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.36	0.55
82:m2:18:UNK:HA	82:m2:59:UNK:H	1.70	0.55
1:2:138:A:N6	1:2:266:A:H61	2.05	0.55
1:2:306:U:H5''	13:C1:90:TYR:CE2	2.42	0.55
1:2:979:A:N3	1:2:1775:U:O2'	2.39	0.55
1:2:996:U:H3	1:2:1008:G:H1	1.54	0.55
1:2:1222:C:H2'	1:2:1223:A:H8	1.71	0.55
26:D4:129:VAL:O	26:D4:132:ARG:HB3	2.06	0.55
36:1:437:G:H2'	36:1:438:A:O4'	2.07	0.55
36:1:507:U:H2'	36:1:508:U:C6	2.42	0.55
36:1:769:G:N1	36:1:770:G:C6	2.75	0.55
36:1:1039:U:H2'	36:1:1040:A:C8	2.42	0.55
36:1:1660:C:H2'	36:1:1661:G:H8	1.71	0.55
36:1:3115:C:H6	36:1:3115:C:OP1	1.90	0.55
36:1:3318:G:H2'	36:1:3318:G:OP2	2.06	0.55
43:L6:54:TYR:CE2	43:L6:63:LEU:HD22	2.42	0.55
45:L8:62:LYS:NZ	51:M5:29:GLU:OE1	2.34	0.55
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	2.42	0.55
45:L8:243:GLN:O	45:L8:247:ASP:N	2.33	0.55
1:6:431:C:H2'	1:6:432:G:H8	1.71	0.55
1:6:815:G:H5'	1:6:815:G:C8	2.40	0.55
1:6:1018:U:H2'	1:6:1019:A:C8	2.41	0.55
1:6:1321:A:H4'	1:6:1322:A:O5'	2.06	0.55
5:s3:34:TYR:CE2	5:s3:37:VAL:HG13	2.41	0.55
25:d3:70:LYS:HB3	25:d3:93:LEU:HD22	1.87	0.55
36:5:1213:G:P	56:n0:137:ARG:HH12	2.30	0.55
36:5:1262:G:H5''	36:5:1263:A:OP2	2.07	0.55
36:5:1555:U:H5'	36:5:1556:C:OP2	2.07	0.55
36:5:1723:A:OP1	55:m9:128:LYS:HE2	2.06	0.55
36:5:1802:C:H4'	70:o4:60:ARG:HG3	1.89	0.55
36:5:2263:C:OP1	86:5:3949:OHX:N2	2.40	0.55
40:l3:262:TRP:HB3	52:m6:65:ASN:HA	1.89	0.55
40:l3:313:HIS:O	40:l3:333:LYS:HE3	2.07	0.55
41:l4:156:LEU:HD13	41:l4:215:ILE:HG12	1.88	0.55
76:q0:99:CYS:SG	76:q0:115:CYS:SG	3.04	0.55
78:q2:28:TYR:HE1	78:q2:30:ALA:HA	1.71	0.55
81:p0:75:LYS:O	81:p0:78:PRO:HD2	2.06	0.55
1:2:918:U:H2'	1:2:919:A:H8	1.71	0.55
1:2:1369:U:OP2	21:C9:69:LYS:NZ	2.39	0.55
5:S3:30:ALA:C	5:S3:32:GLU:H	2.14	0.55
5:S3:136:VAL:HB	5:S3:152:PHE:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:47:LYS:HZ3	18:C6:114:ARG:NE	2.04	0.55
18:C6:49:TYR:O	18:C6:53:LEU:HG	2.06	0.55
24:D2:86:ILE:HD12	24:D2:87:GLU:N	2.22	0.55
36:1:619:A:H4'	36:1:620:U:O4'	2.07	0.55
36:1:1696:A:OP2	86:1:4155:OHX:N3	2.40	0.55
36:1:2404:A:H2'	36:1:2404:A:N3	2.22	0.55
36:1:3344:A:H2	36:1:3361:G:H21	1.55	0.55
38:4:53:A:H2'	38:4:54:A:H8	1.72	0.55
38:4:79:A:C3'	38:4:80:A:H4'	2.37	0.55
46:L9:161:LEU:HD22	46:L9:179:ILE:HD12	1.88	0.55
50:M4:50:LYS:HD3	50:M4:85:TRP:CD1	2.42	0.55
51:M5:116:LEU:HB3	51:M5:133:ILE:HG12	1.89	0.55
54:M8:71:LEU:HD13	54:M8:99:THR:HG21	1.88	0.55
61:N5:108:LEU:HD12	61:N5:125:ARG:HD2	1.89	0.55
78:Q2:83:LEU:HD22	78:Q2:84:THR:H	1.72	0.55
1:6:820:U:O2'	1:6:821:U:H5''	2.07	0.55
1:6:1608:U:O3'	18:c6:73:GLY:HA3	2.06	0.55
2:s0:13:ASP:CG	2:s0:179:ARG:HH22	2.15	0.55
3:s1:126:THR:HA	3:s1:136:ARG:HA	1.87	0.55
4:s2:125:ILE:O	4:s2:129:ILE:HG13	2.07	0.55
6:s4:45:ILE:HA	6:s4:61:VAL:HG11	1.87	0.55
13:c1:83:THR:HA	13:c1:111:VAL:HG12	1.88	0.55
17:c5:110:GLU:CD	17:c5:110:GLU:H	2.15	0.55
23:d1:24:ILE:HD11	23:d1:56:SER:HA	1.89	0.55
29:d7:37:CYS:O	29:d7:39:GLY:N	2.39	0.55
36:5:72:C:H5'	49:m3:63:VAL:HG22	1.88	0.55
36:5:407:A:C2	38:8:17:A:H1'	2.42	0.55
36:5:508:U:H2'	36:5:509:U:H6	1.72	0.55
36:5:1556:C:H5''	36:5:2169:G:N2	2.21	0.55
36:5:1616:U:H2'	36:5:1617:G:C8	2.41	0.55
36:5:1715:A:H4'	36:5:1716:U:OP1	2.07	0.55
36:5:2623:G:C4	36:5:2624:G:C8	2.95	0.55
36:5:2651:G:H4'	36:5:2652:U:OP2	2.07	0.55
36:5:2947:G:C2	40:l3:250:ALA:HB1	2.41	0.55
37:7:106:U:H2'	37:7:107:C:O4'	2.07	0.55
43:l6:72:ASN:ND2	43:l6:159:LEU:O	2.37	0.55
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.87	0.55
45:l8:90:THR:HA	45:l8:214:LEU:HD21	1.89	0.55
52:m6:18:ARG:O	52:m6:22:VAL:HG12	2.05	0.55
57:n1:12:ARG:HD3	57:n1:13:TYR:CZ	2.42	0.55
62:n6:27:ARG:NH1	62:n6:76:LEU:HA	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1370:U:H4'	1:2:1371:A:C5'	2.37	0.54
1:2:1648:A:H2'	1:2:1649:G:C8	2.41	0.54
4:S2:80:VAL:O	4:S2:102:VAL:HA	2.07	0.54
11:S9:38:ASN:HB3	11:S9:40:LYS:N	2.21	0.54
26:D4:123:LYS:H	26:D4:123:LYS:HZ2	1.54	0.54
27:D5:83:LEU:HB2	27:D5:89:ILE:HD13	1.90	0.54
28:D6:26:CYS:HB3	28:D6:77:CYS:SG	2.46	0.54
28:D6:75:VAL:HA	28:D6:78:ALA:HB3	1.89	0.54
36:1:1489:A:OP1	70:O4:10:ARG:NH1	2.41	0.54
36:1:2916:U:C2'	36:1:2917:G:H5'	2.37	0.54
86:1:4194:OHX:N2	86:O1:202:OHX:N1	2.55	0.54
39:L2:79:ASN:O	39:L2:82:VAL:HG13	2.07	0.54
41:L4:37:THR:OG1	41:L4:38:VAL:N	2.40	0.54
43:L6:96:VAL:HG12	43:L6:98:VAL:HG23	1.89	0.54
44:L7:232:ARG:O	44:L7:235:PHE:HB2	2.07	0.54
47:M0:63:GLU:CD	47:M0:63:GLU:H	2.15	0.54
56:N0:33:ASN:O	56:N0:35:VAL:N	2.40	0.54
56:N0:124:LEU:HD23	57:N1:153:PRO:HG2	1.87	0.54
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.89	0.54
1:6:472:U:H5''	11:s9:11:THR:HG23	1.89	0.54
1:6:1174:C:C4	1:6:1175:U:C4	2.95	0.54
1:6:1251:U:O2'	1:6:1252:C:H5''	2.07	0.54
1:6:1337:A:OP1	86:6:2178:OHX:N5	2.38	0.54
1:6:1591:C:H2'	1:6:1592:A:C8	2.42	0.54
86:6:2120:OHX:N6	86:6:2171:OHX:N3	2.55	0.54
7:s5:28:PRO:HB2	18:c6:37:THR:HG21	1.89	0.54
10:s8:76:THR:HG21	10:s8:105:ASP:O	2.07	0.54
11:s9:64:GLU:HG3	11:s9:69:ARG:CZ	2.38	0.54
20:c8:4:VAL:HG21	27:d5:82:HIS:CD2	2.41	0.54
23:d1:87:ARG:O	29:d7:11:THR:HG23	2.07	0.54
25:d3:125:VAL:HG12	25:d3:126:LYS:HG3	1.89	0.54
29:d7:46:VAL:HG13	29:d7:54:VAL:HG21	1.88	0.54
36:5:1031:C:H2'	36:5:1032:C:H5''	1.89	0.54
36:5:1613:A:H2'	36:5:1614:C:C6	2.42	0.54
36:5:2440:G:H2'	36:5:2441:A:C8	2.41	0.54
36:5:2881:C:H2'	36:5:2882:U:H6	1.71	0.54
37:7:7:G:OP1	42:l5:33:ARG:NH1	2.39	0.54
38:8:140:G:N2	51:m5:112:ASN:OD1	2.40	0.54
45:l8:161:GLU:HA	45:l8:164:VAL:HG22	1.89	0.54
45:l8:163:VAL:O	45:l8:166:LEU:HB2	2.07	0.54
47:m0:46:PHE:HD1	47:m0:140:THR:HA	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.89	0.54
51:m5:187:ARG:O	51:m5:190:THR:HG23	2.07	0.54
61:n5:82:LEU:O	61:n5:124:VAL:HG23	2.07	0.54
61:n5:121:LYS:HD3	61:n5:123:TYR:CZ	2.42	0.54
69:o3:13:HIS:O	69:o3:95:GLY:N	2.38	0.54
76:q0:81:SER:O	76:q0:84:ALA:HB3	2.08	0.54
77:q1:9:ARG:HG3	77:q1:9:ARG:HH11	1.70	0.54
1:2:97:C:H2'	1:2:98:U:C6	2.42	0.54
1:2:413:U:H2'	1:2:414:C:C6	2.43	0.54
1:2:936:G:O6	28:D6:15:ARG:NH1	2.41	0.54
1:2:1595:U:N3	1:2:1600:A:H2	1.98	0.54
3:S1:129:THR:HG22	3:S1:176:VAL:HG13	1.89	0.54
4:S2:90:THR:O	4:S2:93:GLY:N	2.24	0.54
6:S4:152:PRO:O	6:S4:154:ILE:N	2.40	0.54
10:S8:187:GLU:HG3	13:C1:30:ARG:HH12	1.72	0.54
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.37	0.54
36:1:209:A:H4'	36:1:211:A:C8	2.42	0.54
36:1:247:C:H2'	36:1:248:U:C6	2.42	0.54
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.43	0.54
36:1:1766:G:H8	36:1:1766:G:OP2	1.91	0.54
43:L6:130:ILE:CG2	43:L6:135:VAL:HG23	2.37	0.54
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.42	0.54
52:M6:14:HIS:CE1	52:M6:119:VAL:HG12	2.40	0.54
56:N0:52:LYS:HE3	56:N0:54:ALA:HB3	1.89	0.54
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	1.89	0.54
64:N8:75:LEU:HD12	64:N8:137:LYS:HD3	1.88	0.54
73:O7:52:LYS:HG2	73:O7:56:ARG:NH2	2.23	0.54
1:6:978:A:H2'	1:6:979:A:O4'	2.07	0.54
10:s8:120:THR:O	86:s8:302:OHX:N4	2.40	0.54
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.40	0.54
36:5:1860:G:O6	86:5:4047:OHX:N2	2.41	0.54
36:5:1878:G:OP1	86:5:3950:OHX:N5	2.40	0.54
36:5:3279:A:C2'	36:5:3280:U:H5'	2.38	0.54
36:5:3304:U:O2'	40:l3:334:ARG:NH2	2.30	0.54
45:l8:161:GLU:CD	51:m5:26:ARG:HH22	2.14	0.54
46:l9:45:PHE:CE1	46:l9:55:VAL:HG13	2.42	0.54
64:n8:74:ASN:HB2	64:n8:76:ASP:HB3	1.89	0.54
70:o4:38:LEU:H	70:o4:38:LEU:HD12	1.72	0.54
72:o6:10:GLY:N	72:o6:13:LYS:HG2	2.22	0.54
75:o9:5:LYS:HD3	75:o9:13:MET:HE1	1.88	0.54
1:2:332:U:OP2	10:S8:56:ARG:NH2	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:891:A:H2'	1:2:892:A:C8	2.42	0.54
1:2:1281:G:O3'	22:D0:76:SER:OG	2.24	0.54
1:2:1486:G:C8	1:2:1487:A:C8	2.96	0.54
1:2:1535:U:OP1	1:2:1535:U:H4'	2.07	0.54
19:C7:71:PHE:O	19:C7:73:LEU:N	2.36	0.54
26:D4:104:SER:O	26:D4:107:GLN:N	2.41	0.54
28:D6:12:LYS:HB2	28:D6:33:ASP:OD2	2.07	0.54
28:D6:23:CYS:HB2	28:D6:74:CYS:HB3	1.89	0.54
36:1:23:A:OP1	86:1:3862:OHX:N5	2.40	0.54
36:1:3022:G:O2'	36:1:3031:G:O6	2.21	0.54
36:1:3248:C:H6	36:1:3248:C:O5'	1.91	0.54
86:1:3998:OHX:N6	86:1:4169:OHX:N1	2.56	0.54
39:L2:6:ARG:HH12	39:L2:199:THR:H	1.54	0.54
45:L8:134:TYR:CD2	45:L8:190:VAL:HG21	2.42	0.54
48:M1:54:VAL:HG12	48:M1:57:PHE:H	1.72	0.54
48:M1:117:ASP:O	48:M1:120:ILE:HG22	2.07	0.54
50:M4:24:LYS:HG2	50:M4:62:GLN:O	2.07	0.54
79:Q3:37:TYR:HB2	79:Q3:47:VAL:HB	1.89	0.54
1:6:25:C:H4'	1:6:25:C:OP2	2.07	0.54
1:6:780:A:C2	26:d4:10:ARG:HD3	2.42	0.54
1:6:846:G:N2	13:c1:46:LYS:HE2	2.23	0.54
1:6:992:A:OP1	86:6:2053:OHX:N1	2.40	0.54
4:s2:53:ILE:H	4:s2:53:ILE:HD12	1.71	0.54
4:s2:90:THR:C	4:s2:92:ALA:H	2.14	0.54
7:s5:153:GLY:O	7:s5:155:ALA:N	2.40	0.54
8:s6:134:GLY:HA3	8:s6:158:ILE:HG13	1.89	0.54
22:d0:57:ARG:HG3	22:d0:89:ARG:NE	2.21	0.54
28:d6:26:CYS:O	28:d6:27:SER:HB2	2.06	0.54
36:5:400:G:H4'	36:5:401:U:O5'	2.07	0.54
36:5:568:G:N7	86:5:3932:OHX:N6	2.55	0.54
36:5:801:A:O2'	86:5:4022:OHX:N1	2.40	0.54
36:5:867:G:C6	36:5:868:C:C4	2.95	0.54
36:5:1049:C:H2'	36:5:1050:U:H6	1.71	0.54
36:5:1627:U:H2'	36:5:1814:A:N6	2.23	0.54
36:5:1840:U:OP2	86:5:4033:OHX:N4	2.40	0.54
36:5:2112:U:O2	86:5:3969:OHX:N1	2.40	0.54
36:5:2757:U:H4'	57:n1:8:ARG:HG3	1.90	0.54
41:l4:362:ASP:H	56:n0:26:ARG:NH1	2.04	0.54
44:l7:147:LEU:HD22	44:l7:205:PHE:CD1	2.42	0.54
47:m0:86:HIS:O	47:m0:138:VAL:HA	2.08	0.54
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:4:PRO:HD2	9:S7:5:GLN:HG2	1.89	0.54
34:SR:223:TRP:HE3	34:SR:230:ALA:HA	1.73	0.54
36:1:578:A:H5''	36:1:579:G:O5'	2.06	0.54
36:1:2674:A:C2	48:M1:124:GLY:HA3	2.42	0.54
36:1:2836:C:H5	36:1:2852:C:N4	1.94	0.54
36:1:2881:C:H2'	36:1:2882:U:H6	1.72	0.54
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	2.08	0.54
42:L5:233:ALA:HA	42:L5:236:LEU:HD13	1.88	0.54
46:L9:49:ASN:C	46:L9:51:GLN:H	2.13	0.54
46:L9:61:GLY:O	46:L9:65:VAL:HG23	2.08	0.54
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.43	0.54
50:M4:24:LYS:N	50:M4:62:GLN:O	2.40	0.54
51:M5:53:TYR:O	51:M5:54:LYS:HD2	2.07	0.54
76:Q0:110:CYS:SG	76:Q0:112:LYS:HB2	2.48	0.54
1:6:417:A:H5'	1:6:418:G:C5	2.42	0.54
1:6:609:U:H4'	1:6:610:G:O5'	2.07	0.54
1:6:1394:G:OP1	34:sR:282:SER:N	2.40	0.54
1:6:1594:G:OP2	1:6:1596:C:N4	2.40	0.54
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.90	0.54
3:s1:113:MET:HE3	3:s1:142:PHE:CE2	2.43	0.54
15:c3:56:ASP:N	15:c3:56:ASP:OD1	2.40	0.54
31:d9:20:GLN:HB2	31:d9:25:SER:HA	1.90	0.54
34:sR:79:TYR:HE1	34:sR:100:TYR:CE1	2.25	0.54
36:5:632:G:OP1	52:m6:94:ARG:N	2.40	0.54
36:5:1686:U:H1'	36:5:3069:G:N2	2.22	0.54
36:5:1768:U:H2'	36:5:1769:G:O4'	2.07	0.54
36:5:1873:U:OP2	55:m9:20:ARG:NH1	2.40	0.54
36:5:2425:G:H2'	36:5:2426:U:O4'	2.07	0.54
36:5:3241:G:H2'	36:5:3245:A:C8	2.42	0.54
45:l8:78:PHE:C	45:l8:80:TYR:H	2.15	0.54
50:m4:120:VAL:HG22	52:m6:197:LEU:HD13	1.90	0.54
54:m8:62:VAL:O	54:m8:87:VAL:HA	2.08	0.54
1:2:195:G:H2'	1:2:196:G:H5'	1.90	0.54
1:2:1102:G:OP2	25:D3:7:ARG:NH1	2.40	0.54
1:2:1675:C:H1'	10:S8:32:GLN:OE1	2.07	0.54
5:S3:119:ALA:O	5:S3:123:VAL:HG23	2.07	0.54
20:C8:26:ILE:HG23	20:C8:31:ALA:HB2	1.89	0.54
25:D3:24:TRP:HE3	25:D3:30:LYS:HD2	1.73	0.54
36:1:39:A:H5''	64:N8:35:ALA:HB2	1.88	0.54
36:1:1060:U:H2'	36:1:1061:A:C8	2.43	0.54
36:1:2663:G:H5'	42:L5:152:ARG:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3242:G:N2	36:1:3245:A:H5'	2.22	0.54
38:4:155:A:H5'	45:L8:185:ARG:CZ	2.37	0.54
41:L4:22:LEU:HD21	41:L4:26:PHE:HB2	1.89	0.54
41:L4:350:LYS:HG3	41:L4:351:PRO:HD2	1.89	0.54
52:M6:36:VAL:HB	52:M6:108:ILE:HG12	1.89	0.54
53:M7:59:PRO:HB3	53:M7:78:VAL:HG21	1.88	0.54
56:N0:12:ARG:NH1	56:N0:15:PRO:HG3	2.23	0.54
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.40	0.54
16:c4:111:ARG:HH11	16:c4:111:ARG:HB3	1.71	0.54
24:d2:118:ARG:HH11	24:d2:118:ARG:HB2	1.72	0.54
28:d6:23:CYS:O	28:d6:25:ASN:N	2.40	0.54
36:5:653:A:H1'	36:5:2360:C:O2	2.07	0.54
36:5:1639:C:OP1	70:o4:52:GLN:HB3	2.07	0.54
36:5:1791:C:H2'	36:5:1792:C:C6	2.42	0.54
41:l4:44:LYS:HB3	41:l4:47:ARG:NH1	2.20	0.54
41:l4:311:HIS:CE1	41:l4:314:LYS:HA	2.42	0.54
43:l6:152:THR:O	43:l6:152:THR:OG1	2.25	0.54
68:o2:88:HIS:HB3	68:o2:91:THR:HG22	1.89	0.54
73:o7:14:LYS:HE2	75:o9:51:ILE:HG12	1.90	0.54
1:2:75:U:N3	1:2:76:A:N3	2.56	0.54
1:2:1068:C:H2'	1:2:1069:A:C8	2.43	0.54
1:2:1165:G:N2	1:2:1581:C:O2	2.41	0.54
1:2:1358:G:H2'	1:2:1359:C:H6	1.71	0.54
1:2:1648:A:H2'	1:2:1649:G:H8	1.73	0.54
3:S1:175:GLU:HG3	3:S1:193:ILE:HD12	1.89	0.54
6:S4:16:HIS:O	6:S4:18:TRP:N	2.40	0.54
7:S5:189:THR:OG1	27:D5:98:GLN:OE1	2.24	0.54
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.88	0.54
36:1:1478:C:H2'	36:1:1479:U:C6	2.42	0.54
36:1:3375:A:O2'	36:1:3378:C:H5'	2.08	0.54
39:L2:41:ILE:HG22	39:L2:90:ALA:HB3	1.90	0.54
42:L5:39:GLN:OE1	42:L5:40:HIS:N	2.34	0.54
48:M1:161:SER:OG	48:M1:162:TRP:N	2.39	0.54
52:M6:102:LEU:HD12	52:M6:103:LYS:H	1.71	0.54
62:N6:17:LYS:HD3	62:N6:21:THR:HG21	1.89	0.54
71:O5:101:THR:HG22	71:O5:104:GLN:N	2.23	0.54
78:Q2:35:LEU:HD13	78:Q2:36:PHE:CE1	2.43	0.54
1:6:73:U:H2'	1:6:74:U:C6	2.43	0.54
1:6:694:U:H3'	1:6:695:U:O2	2.07	0.54
35:sM:131:ILE:O	35:sM:135:ALA:N	2.39	0.54
36:5:860:G:O5'	39:l2:181:LYS:NZ	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:985:U:H2'	36:5:986:U:H6	1.72	0.54
36:5:1315:U:OP1	52:m6:18:ARG:NH1	2.39	0.54
36:5:1930:A:O2'	86:5:3920:OHX:N3	2.39	0.54
36:5:2249:G:C8	36:5:2249:G:H3'	2.43	0.54
36:5:2256:A:H8	36:5:2256:A:OP2	1.91	0.54
37:7:47:C:OP1	42:l5:203:HIS:NE2	2.26	0.54
38:8:142:C:OP1	51:m5:38:ARG:HD3	2.08	0.54
41:l4:362:ASP:C	56:n0:26:ARG:HH12	2.15	0.54
43:l6:86:ALA:H	69:o3:107:ILE:HG21	1.73	0.54
45:l8:144:GLU:OE1	72:o6:36:ARG:NH2	2.40	0.54
59:n3:96:GLU:HG2	59:n3:96:GLU:O	2.07	0.54
1:2:542:A:C8	1:2:543:C:H3'	2.43	0.54
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.90	0.54
2:S0:200:ASP:HB2	19:C7:85:VAL:HG13	1.89	0.54
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.43	0.54
27:D5:61:SER:H	27:D5:64:VAL:HB	1.72	0.54
36:1:41:G:N2	36:1:2803:A:N7	2.56	0.54
36:1:138:U:H2'	36:1:139:G:H8	1.71	0.54
36:1:1382:G:P	41:L4:188:ARG:HH12	2.31	0.54
36:1:1687:U:H2'	58:N2:70:LYS:NZ	2.23	0.54
36:1:3094:A:H2'	36:1:3095:U:C6	2.43	0.54
42:L5:257:GLU:O	42:L5:258:LYS:HB2	2.08	0.54
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.07	0.54
48:M1:8:PRO:HG2	48:M1:9:MET:HB3	1.89	0.54
60:N4:4:GLU:O	60:N4:13:ILE:N	2.35	0.54
1:6:58:U:O2'	1:6:451:A:N3	2.33	0.54
1:6:1690:G:H1	1:6:1711:C:H42	1.55	0.54
7:s5:133:VAL:HA	7:s5:198:LEU:HD22	1.90	0.54
18:c6:17:THR:O	18:c6:68:ARG:NH2	2.41	0.54
36:5:117:U:O4	45:l8:147:LYS:HD3	2.08	0.54
36:5:119:U:H4'	36:5:120:G:H3'	1.89	0.54
36:5:739:G:O6	86:5:3959:OHX:N6	2.41	0.54
36:5:1072:G:H2'	36:5:1073:U:C6	2.42	0.54
36:5:1695:U:H5''	70:o4:24:LYS:HB3	1.90	0.54
38:8:37:A:OP2	71:o5:86:ARG:NE	2.39	0.54
40:l3:123:TYR:CZ	40:l3:124:LYS:HD3	2.43	0.54
40:l3:339:ARG:CZ	40:l3:342:LEU:HD21	2.37	0.54
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.41	0.54
51:m5:149:ASN:OD1	86:m5:306:OHX:N1	2.40	0.54
51:m5:183:THR:O	51:m5:184:LYS:HB3	2.07	0.54
56:n0:93:GLU:OE1	56:n0:137:ARG:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:66:ALA:HA	64:n8:69:TRP:N	2.23	0.54
67:o1:7:VAL:HG13	67:o1:77:ARG:O	2.07	0.54
1:2:432:G:C6	1:2:433:C:C4	2.96	0.54
1:2:434:G:N2	1:2:436:A:H3'	2.22	0.54
1:2:814:A:O2'	1:2:816:G:OP2	2.26	0.54
1:2:959:U:H2'	1:2:959:U:O2	2.08	0.54
1:2:1498:G:C2'	1:2:1499:G:H5'	2.38	0.54
3:S1:131:ASP:O	3:S1:133:TYR:N	2.32	0.54
8:S6:153:VAL:HG11	8:S6:175:ILE:HG21	1.88	0.54
9:S7:131:PHE:C	9:S7:133:THR:H	2.16	0.54
11:S9:81:VAL:HG22	11:S9:86:LEU:HB3	1.90	0.54
16:C4:26:THR:HG21	16:C4:97:GLY:HA3	1.88	0.54
21:C9:23:GLN:HG2	21:C9:55:TYR:CG	2.43	0.54
23:D1:35:ASN:HB3	23:D1:50:TYR:CD1	2.42	0.54
24:D2:83:ILE:O	24:D2:86:ILE:HD11	2.08	0.54
36:1:345:G:OP1	36:1:1429:G:N1	2.39	0.54
36:1:498:A:P	69:O3:86:ARG:HH21	2.30	0.54
37:3:106:U:H2'	37:3:107:C:H6	1.73	0.54
40:L3:84:VAL:HG22	40:L3:162:VAL:HB	1.88	0.54
44:L7:169:ILE:HD12	44:L7:181:ILE:HA	1.89	0.54
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.48	0.54
1:6:151:G:H2'	1:6:152:U:C6	2.42	0.54
1:6:443:C:OP2	26:d4:105:ARG:HB2	2.07	0.54
1:6:885:G:OP1	3:s1:136:ARG:NH1	2.41	0.54
1:6:1203:A:C4	1:6:1556:A:C2	2.96	0.54
6:s4:87:MET:HE3	6:s4:226:PHE:CZ	2.43	0.54
12:c0:23:ALA:O	12:c0:24:LYS:HB3	2.06	0.54
21:c9:108:LEU:HB3	21:c9:114:VAL:HG22	1.89	0.54
25:d3:100:ASP:O	25:d3:101:GLU:HB3	2.08	0.54
34:sR:198:ASN:O	34:sR:215:GLY:HA3	2.08	0.54
36:5:2523:A:O2'	36:5:2587:U:H1'	2.08	0.54
38:8:122:U:H2'	38:8:123:G:C8	2.43	0.54
43:l6:54:TYR:HA	43:l6:65:ILE:CD1	2.38	0.54
61:n5:141:TYR:O	61:n5:142:ILE:HG13	2.08	0.54
73:o7:67:LEU:O	73:o7:69:HIS:N	2.40	0.54
1:2:118:U:OP1	86:2:2134:OHX:N3	2.41	0.54
1:2:601:A:OP1	25:D3:110:LYS:HD3	2.08	0.54
1:2:843:U:H2'	1:2:844:A:C8	2.43	0.54
1:2:1350:U:H2'	1:2:1351:G:H8	1.73	0.54
6:S4:182:TYR:HA	6:S4:192:ILE:HG23	1.90	0.54
8:S6:64:LYS:HB2	8:S6:97:VAL:HG21	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:207:U:H2'	36:1:208:C:H6	1.72	0.54
36:1:563:U:H2'	36:1:564:G:H8	1.72	0.54
36:1:1047:A:C6	36:1:1048:A:C6	2.96	0.54
36:1:1667:A:H2'	36:1:1668:G:H8	1.72	0.54
36:1:1919:G:N7	86:1:4008:OHX:N5	2.56	0.54
36:1:2712:U:H2'	36:1:2713:U:C6	2.43	0.54
38:4:19:C:H2'	38:4:20:U:O4'	2.07	0.54
38:4:83:C:H1'	38:4:85:G:N2	2.23	0.54
40:L3:58:ARG:HA	40:L3:357:LYS:HG3	1.90	0.54
67:O1:75:ILE:HG12	67:O1:93:VAL:HG22	1.90	0.54
70:O4:47:CYS:SG	70:O4:48:GLY:N	2.80	0.54
1:6:1645:G:OP2	86:6:2183:OHX:N3	2.40	0.54
7:s5:57:SER:OG	7:s5:58:LEU:N	2.40	0.54
11:s9:26:ALA:HA	11:s9:29:LYS:HD3	1.89	0.54
15:c3:138:ASN:O	15:c3:140:LYS:N	2.41	0.54
17:c5:15:HIS:H	17:c5:22:LEU:HD22	1.73	0.54
19:c7:12:ALA:O	19:c7:15:ALA:HB3	2.08	0.54
23:d1:71:ARG:HG3	23:d1:83:TRP:CZ2	2.43	0.54
24:d2:57:ARG:NH2	29:d7:26:GLN:OE1	2.41	0.54
36:5:644:G:H2'	36:5:2372:A:N7	2.23	0.54
36:5:842:G:H1	36:5:851:C:H42	1.56	0.54
36:5:1236:G:N2	36:5:1244:A:OP1	2.39	0.54
36:5:1659:U:H2'	36:5:1660:C:C6	2.42	0.54
36:5:2561:A:O2'	36:5:2562:A:H5''	2.08	0.54
36:5:2732:G:OP2	86:5:4214:OHX:N1	2.41	0.54
36:5:3243:A:C8	52:m6:156:LEU:HD13	2.41	0.54
86:5:4014:OHX:N6	86:5:4212:OHX:N2	2.55	0.54
43:l6:52:VAL:HG22	43:l6:67:GLY:HA2	1.90	0.54
47:m0:156:ARG:NH1	47:m0:163:GLN:O	2.41	0.54
56:n0:151:PRO:C	56:n0:153:PRO:HD3	2.33	0.54
65:n9:14:ARG:HH21	65:n9:18:ARG:HD3	1.72	0.54
1:2:11:A:C2'	1:2:12:U:H5'	2.38	0.54
1:2:67:A:O2'	1:2:69:G:OP1	2.19	0.54
1:2:1068:C:H2'	1:2:1069:A:H8	1.72	0.54
3:S1:41:ARG:HH22	3:S1:97:LEU:HD21	1.73	0.54
3:S1:104:ASP:HA	3:S1:214:LYS:HG3	1.89	0.54
6:S4:159:THR:HG23	6:S4:173:ILE:HD13	1.88	0.54
11:S9:109:LEU:HD22	11:S9:113:VAL:HG23	1.90	0.54
15:C3:12:SER:O	15:C3:13:SER:HB3	2.08	0.54
16:C4:80:HIS:ND1	16:C4:113:GLY:O	2.40	0.54
22:D0:16:GLN:HB2	22:D0:17:GLN:HE21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1076:C:O3'	65:N9:38:LYS:NZ	2.40	0.54
36:1:1101:G:OP2	44:L7:196:LYS:HE3	2.08	0.54
36:1:1190:A:H4'	36:1:1191:U:OP1	2.06	0.54
36:1:2718:U:H2'	36:1:2719:U:C6	2.43	0.54
37:3:22:A:H2'	37:3:23:A:C8	2.43	0.54
39:L2:102:LEU:HD22	39:L2:166:ILE:HD11	1.90	0.54
43:L6:40:LEU:HB3	43:L6:84:VAL:HG13	1.90	0.54
51:M5:139:HIS:HB3	51:M5:142:ILE:HD13	1.90	0.54
55:M9:84:THR:O	55:M9:86:GLU:N	2.41	0.54
58:N2:41:ILE:HG12	58:N2:79:LEU:HD13	1.90	0.54
59:N3:80:ARG:NH1	59:N3:117:PRO:O	2.36	0.54
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.43	0.54
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.07	0.54
1:6:186:C:OP2	10:s8:142:LYS:NZ	2.28	0.54
1:6:482:U:H3	1:6:505:A:H61	1.55	0.54
1:6:569:C:H2'	1:6:570:A:O4'	2.07	0.54
1:6:788:A:H3'	6:s4:108:ARG:HH22	1.72	0.54
1:6:1037:C:H2'	1:6:1038:U:C6	2.43	0.54
1:6:1263:G:C2	1:6:1264:G:H1'	2.43	0.54
1:6:1579:U:H2'	1:6:1580:C:H6	1.73	0.54
2:s0:49:ASN:HD22	2:s0:52:LYS:HE3	1.73	0.54
14:c2:103:LEU:HD23	14:c2:115:VAL:HA	1.88	0.54
18:c6:68:ARG:NE	18:c6:68:ARG:O	2.41	0.54
24:d2:53:ILE:HB	24:d2:60:LYS:HB2	1.88	0.54
36:5:90:C:OP1	64:n8:59:ARG:NH1	2.41	0.54
36:5:736:A:C5	36:5:737:G:H1'	2.42	0.54
36:5:2756:C:O2'	57:n1:8:ARG:HD2	2.08	0.54
67:o1:25:PHE:O	67:o1:27:LYS:N	2.41	0.54
1:2:615:A:H2'	1:2:616:G:C8	2.43	0.53
1:2:947:U:H2'	1:2:948:G:C8	2.43	0.53
1:2:978:A:H2'	1:2:979:A:O4'	2.07	0.53
2:S0:66:ALA:O	23:D1:50:TYR:HE1	1.90	0.53
4:S2:212:LYS:O	4:S2:216:VAL:HG23	2.07	0.53
8:S6:139:ASN:OD1	8:S6:142:ARG:NH1	2.38	0.53
27:D5:41:ILE:O	27:D5:75:LEU:HD13	2.07	0.53
27:D5:82:HIS:ND1	27:D5:82:HIS:O	2.41	0.53
28:D6:45:VAL:HB	28:D6:49:ALA:HB3	1.90	0.53
36:1:608:A:C6	43:L6:22:ARG:HD3	2.43	0.53
36:1:945:C:H2'	36:1:946:U:H6	1.73	0.53
36:1:985:U:H2'	36:1:986:U:H6	1.73	0.53
36:1:1170:A:OP2	86:1:3951:OHX:N3	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1609:C:H5''	61:N5:125:ARG:HH11	1.73	0.53
36:1:2273:G:N2	36:1:2311:G:H2'	2.23	0.53
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.23	0.53
36:1:3393:U:H2'	36:1:3394:U:C6	2.43	0.53
40:L3:282:ILE:HG23	40:L3:322:ILE:HG23	1.90	0.53
42:L5:279:LYS:HA	42:L5:282:ARG:HB2	1.90	0.53
46:L9:75:VAL:HA	46:L9:78:MET:HG3	1.88	0.53
52:M6:32:LYS:HA	52:M6:101:ARG:HB2	1.88	0.53
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	1.90	0.53
1:6:75:U:O2'	1:6:76:A:O4'	2.26	0.53
1:6:138:A:H62	1:6:266:A:H61	1.55	0.53
1:6:489:C:O2'	1:6:490:C:O4'	2.25	0.53
1:6:769:A:OP2	86:6:2138:OHX:N4	2.41	0.53
1:6:1553:G:H4'	31:d9:14:TYR:CE1	2.42	0.53
1:6:1638:G:C2	1:6:1639:C:H1'	2.43	0.53
5:s3:202:LEU:C	5:s3:204:ASP:H	2.16	0.53
22:d0:48:HIS:HE1	22:d0:102:ARG:NH2	2.06	0.53
36:5:290:G:H2'	36:5:291:C:C6	2.43	0.53
38:8:81:U:H1'	38:8:82:U:H5'	1.90	0.53
40:l3:219:ALA:HB2	40:l3:336:VAL:HG13	1.89	0.53
41:l4:50:TYR:CD2	41:l4:109:TRP:HH2	2.26	0.53
60:n4:25:ASP:N	60:n4:25:ASP:OD2	2.39	0.53
60:n4:39:LEU:O	60:n4:42:GLN:N	2.41	0.53
63:n7:136:PHE:CE1	70:o4:89:ILE:HG12	2.43	0.53
64:n8:88:ASP:OD2	64:n8:88:ASP:N	2.41	0.53
72:o6:35:ASN:N	72:o6:35:ASN:OD1	2.40	0.53
81:p0:31:ASP:OD1	81:p0:83:ASN:HB3	2.07	0.53
1:2:511:A:P	11:S9:176:ASN:HD22	2.32	0.53
1:2:539:G:H8	1:2:539:G:OP2	1.91	0.53
1:2:826:U:H2'	1:2:827:C:H6	1.74	0.53
1:2:867:G:H5'	15:C3:4:MET:HE3	1.90	0.53
1:2:1157:A:HO2'	1:2:1158:C:P	2.31	0.53
1:2:1261:G:H2'	1:2:1262:U:C6	2.42	0.53
1:2:1308:G:C6	1:2:1309:C:C4	2.96	0.53
3:S1:105:PHE:HB3	3:S1:110:LEU:HD11	1.89	0.53
10:S8:192:TYR:O	10:S8:196:LEU:HB2	2.07	0.53
17:C5:28:MET:O	17:C5:29:SER:HB3	2.08	0.53
19:C7:6:THR:OG1	19:C7:7:LYS:N	2.39	0.53
21:C9:28:LEU:HD22	21:C9:30:VAL:HG22	1.90	0.53
36:1:148:G:N7	45:L8:137:ASN:ND2	2.56	0.53
36:1:3049:A:OP2	86:1:4178:OHX:N1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3138:U:OP2	40:L3:30:LYS:HD3	2.08	0.53
39:L2:96:LEU:HD23	79:Q3:83:ILE:HG23	1.90	0.53
55:M9:81:ARG:HD2	55:M9:88:ARG:CZ	2.38	0.53
62:N6:56:VAL:CG2	62:N6:104:LEU:HB3	2.37	0.53
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	1.91	0.53
1:6:163:G:H8	1:6:163:G:O5'	1.91	0.53
1:6:274:G:N2	1:6:282:C:O2	2.29	0.53
1:6:568:G:N7	25:d3:69:ARG:NH2	2.56	0.53
1:6:891:A:H2'	1:6:892:A:H8	1.72	0.53
1:6:1000:C:H5	1:6:1002:G:H3'	1.73	0.53
6:s4:239:PRO:O	6:s4:241:GLY:N	2.42	0.53
24:d2:96:ALA:HB3	24:d2:99:PHE:HE1	1.72	0.53
26:d4:29:HIS:CD2	26:d4:29:HIS:N	2.76	0.53
34:sR:19:TRP:HB2	34:sR:38:ARG:HG3	1.90	0.53
36:5:392:G:O6	86:5:4061:OHX:N3	2.41	0.53
36:5:863:C:OP1	86:5:3909:OHX:N3	2.42	0.53
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.73	0.53
36:5:1093:A:OP1	36:5:1093:A:H4'	2.07	0.53
36:5:2144:A:C4	36:5:2281:A:C6	2.96	0.53
36:5:2396:G:OP1	36:5:2397:A:H4'	2.07	0.53
36:5:2967:A:H5''	39:l2:213:GLY:HA2	1.90	0.53
37:7:28:C:H5''	48:m1:137:ARG:HG2	1.89	0.53
43:l6:176:PHE:HA	50:m4:114:ASP:HB2	1.89	0.53
50:m4:13:ARG:NH1	50:m4:65:LEU:O	2.33	0.53
54:m8:69:ARG:O	54:m8:72:LYS:HG3	2.08	0.53
54:m8:96:PHE:CD2	54:m8:97:PRO:HD2	2.43	0.53
62:n6:32:SER:HB2	62:n6:49:PRO:HA	1.90	0.53
63:n7:34:LYS:O	63:n7:37:PRO:HG3	2.07	0.53
1:2:54:C:O5'	26:D4:113:ASN:ND2	2.42	0.53
1:2:846:G:H2'	1:2:847:A:O4'	2.09	0.53
1:2:1067:C:OP1	3:S1:150:VAL:HB	2.08	0.53
1:2:1578:U:O2'	1:2:1579:U:H5'	2.09	0.53
1:2:1586:A:OP1	18:C6:136:SER:N	2.30	0.53
5:S3:64:ARG:HA	5:S3:67:ASN:HB2	1.90	0.53
5:S3:143:ARG:HB3	35:SM:109:GLY:HA3	1.90	0.53
19:C7:24:LEU:HD23	19:C7:34:LEU:HD13	1.89	0.53
24:D2:103:ILE:HG12	24:D2:126:LEU:HB2	1.90	0.53
27:D5:61:SER:HB2	27:D5:99:ALA:HB3	1.90	0.53
28:D6:53:LEU:O	28:D6:57:SER:OG	2.21	0.53
35:SM:130:GLU:HA	35:SM:133:GLU:OE1	2.07	0.53
36:1:829:U:H3	36:1:895:A:N6	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1916:U:O3'	55:M9:85:ARG:NH2	2.41	0.53
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.20	0.53
36:1:2762:A:OP2	86:1:3927:OHX:N4	2.41	0.53
36:1:2770:G:O2'	36:1:2771:U:H5'	2.09	0.53
41:L4:188:ARG:O	41:L4:193:LYS:HE3	2.09	0.53
45:L8:84:ARG:HH12	45:L8:181:LYS:HZ1	1.55	0.53
55:M9:17:VAL:HG21	55:M9:52:LYS:HD3	1.89	0.53
56:N0:80:ARG:HB3	56:N0:122:HIS:HB2	1.90	0.53
1:6:922:G:H2'	1:6:923:A:C8	2.43	0.53
1:6:1175:U:O4	20:c8:140:THR:OG1	2.20	0.53
86:6:2120:OHX:N2	86:6:2171:OHX:N5	2.56	0.53
5:s3:64:ARG:HG2	5:s3:65:ARG:H	1.72	0.53
15:c3:30:SER:O	15:c3:34:ILE:HG13	2.08	0.53
19:c7:25:THR:O	19:c7:31:ASN:ND2	2.41	0.53
36:5:27:C:O2'	36:5:327:A:N3	2.38	0.53
36:5:110:G:OP2	49:m3:73:ARG:NH1	2.41	0.53
36:5:1049:C:H2'	36:5:1050:U:C6	2.43	0.53
36:5:1070:U:C4	36:5:1071:U:C4	2.96	0.53
36:5:1595:U:C2	36:5:1596:C:C5	2.96	0.53
36:5:2518:C:H2'	36:5:2519:A:C8	2.42	0.53
36:5:2557:A:H5''	39:l2:69:TYR:HE1	1.73	0.53
36:5:2875:U:H3	36:5:2952:G:H22	1.56	0.53
40:l3:205:VAL:HG11	40:l3:322:ILE:HD13	1.90	0.53
51:m5:99:ARG:HD3	51:m5:167:THR:HB	1.90	0.53
54:m8:89:ASP:OD1	54:m8:90:ASP:N	2.42	0.53
65:n9:47:LEU:HA	65:n9:50:THR:HG22	1.89	0.53
66:o0:32:LYS:HG3	66:o0:35:ARG:HH21	1.73	0.53
69:o3:6:ARG:HG3	69:o3:8:TYR:CD1	2.43	0.53
1:2:17:C:H4'	1:2:1109:G:C8	2.44	0.53
1:2:577:G:H1	35:SM:99:LYS:HA	1.73	0.53
1:2:844:A:H2'	1:2:845:G:C8	2.44	0.53
1:2:1100:G:O2'	24:D2:76:SER:N	2.41	0.53
19:C7:22:PRO:HA	34:SR:216:LYS:NZ	2.24	0.53
22:D0:28:SER:OG	22:D0:111:GLY:O	2.17	0.53
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.91	0.53
25:D3:130:VAL:HG21	25:D3:135:LEU:HD21	1.89	0.53
36:1:915:A:N3	36:1:915:A:H2'	2.23	0.53
36:1:1063:G:N7	36:1:1097:G:H2'	2.24	0.53
36:1:1780:G:C4	36:1:1781:C:C5	2.97	0.53
36:1:2317:A:OP2	86:1:4065:OHX:N6	2.41	0.53
36:1:2822:U:OP2	86:1:3897:OHX:N5	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.73	0.53
44:L7:25:GLN:H	44:L7:28:ALA:HB3	1.72	0.53
44:L7:136:TYR:O	44:L7:231:ASN:HA	2.08	0.53
44:L7:240:VAL:O	44:L7:242:SER:N	2.42	0.53
46:L9:162:GLN:HB2	46:L9:179:ILE:O	2.09	0.53
48:M1:43:GLN:NE2	48:M1:70:THR:O	2.33	0.53
53:M7:29:THR:HG22	53:M7:87:SER:OG	2.08	0.53
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.44	0.53
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.44	0.53
60:N4:33:ASN:OD1	60:N4:35:LYS:HB3	2.08	0.53
61:N5:141:TYR:O	61:N5:142:ILE:HB	2.09	0.53
74:O8:56:ILE:HG22	74:O8:58:ASP:HB3	1.91	0.53
79:Q3:84:ARG:O	79:Q3:88:GLU:HG2	2.09	0.53
1:6:52:U:H2'	1:6:53:G:C8	2.43	0.53
1:6:1013:A:H2'	1:6:1014:G:O4'	2.09	0.53
1:6:1449:U:H2'	1:6:1450:U:C6	2.43	0.53
1:6:1518:C:OP2	86:6:2143:OHX:N1	2.41	0.53
17:c5:21:ASP:O	17:c5:25:LEU:N	2.40	0.53
20:c8:17:LEU:O	20:c8:19:ASN:N	2.41	0.53
26:d4:83:LYS:HE3	26:d4:96:LEU:HB3	1.91	0.53
35:sM:27:LYS:HD2	48:m1:68:HIS:CE1	2.43	0.53
36:5:114:A:H2'	36:5:115:A:O4'	2.08	0.53
36:5:209:A:H4'	36:5:211:A:C8	2.43	0.53
36:5:519:A:N1	56:n0:65:ASN:N	2.53	0.53
36:5:595:G:C8	36:5:609:G:C6	2.96	0.53
36:5:642:U:OP1	64:n8:22:ILE:HG22	2.07	0.53
36:5:1107:C:H2'	36:5:1108:U:H6	1.73	0.53
36:5:2552:C:H5	66:o0:53:LYS:HE2	1.72	0.53
40:l3:19:ARG:HB3	40:l3:232:ARG:NH1	2.23	0.53
43:l6:14:ASP:N	43:l6:14:ASP:OD2	2.41	0.53
48:m1:117:ASP:OD2	48:m1:119:SER:HB3	2.08	0.53
52:m6:159:LYS:O	52:m6:162:VAL:HB	2.08	0.53
53:m7:112:LEU:HA	53:m7:151:THR:O	2.09	0.53
53:m7:136:ILE:O	53:m7:137:ASN:ND2	2.40	0.53
59:n3:12:ARG:HG2	59:n3:13:ILE:H	1.74	0.53
65:n9:39:PHE:O	65:n9:43:HIS:N	2.42	0.53
1:2:1265:G:C2	1:2:1266:U:H1'	2.44	0.53
2:S0:30:GLN:NE2	2:S0:149:LEU:HD13	2.24	0.53
4:S2:95:ARG:N	4:S2:95:ARG:HD2	2.24	0.53
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.35	0.53
20:C8:25:ASN:HB2	27:D5:40:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:E1:98:VAL:HG22	33:E1:99:LYS:H	1.74	0.53
35:SM:124:GLN:O	35:SM:127:ALA:N	2.41	0.53
36:1:5:G:H2'	36:1:6:A:O4'	2.08	0.53
36:1:511:G:H2'	36:1:512:U:O4'	2.09	0.53
36:1:852:U:C5	79:Q3:2:ALA:HA	2.43	0.53
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.24	0.53
36:1:3088:G:H2'	36:1:3089:C:C6	2.43	0.53
37:3:94:C:H2'	37:3:95:A:H8	1.72	0.53
46:L9:92:TYR:HB2	46:L9:142:ASP:HB3	1.88	0.53
50:M4:20:VAL:HG13	50:M4:68:LEU:O	2.07	0.53
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.22	0.53
64:N8:90:TYR:O	64:N8:94:ALA:HB2	2.09	0.53
69:O3:13:HIS:O	69:O3:95:GLY:N	2.41	0.53
72:O6:58:ILE:HG12	72:O6:59:ASP:N	2.23	0.53
1:6:241:U:H2'	1:6:242:U:C6	2.43	0.53
1:6:271:A:H1'	1:6:285:G:N2	2.24	0.53
1:6:765:G:O6	11:s9:149:ARG:HD2	2.08	0.53
1:6:902:G:N1	16:c4:51:ASP:OD1	2.23	0.53
1:6:1414:U:O2'	86:6:2047:OHX:N5	2.41	0.53
2:s0:175:TYR:HE1	2:s0:197:ILE:HG22	1.74	0.53
7:s5:225:ARG:HH22	30:d8:57:MET:HB2	1.74	0.53
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.41	0.53
36:5:168:U:O2'	49:m3:128:ARG:NH2	2.42	0.53
36:5:398:A:H5''	53:m7:3:ARG:HD2	1.89	0.53
36:5:805:G:H1'	41:l4:73:ARG:HH11	1.72	0.53
36:5:1317:A:O2'	36:5:1318:A:H3'	2.07	0.53
36:5:1348:U:H5	36:5:1355:A:C8	2.26	0.53
36:5:1505:C:OP1	53:m7:23:ARG:NH2	2.39	0.53
36:5:3306:U:O2'	36:5:3308:C:OP2	2.23	0.53
86:5:4014:OHX:N3	86:5:4212:OHX:N1	2.55	0.53
38:8:142:C:H2'	38:8:143:U:C6	2.43	0.53
41:l4:320:ASN:OD1	41:l4:323:VAL:HG12	2.09	0.53
47:m0:85:PHE:CB	47:m0:140:THR:HG22	2.37	0.53
54:m8:25:TYR:HA	54:m8:28:LEU:HD12	1.91	0.53
58:n2:90:ARG:HB3	58:n2:90:ARG:NH1	2.23	0.53
69:o3:8:TYR:CZ	69:o3:99:ARG:HD3	2.43	0.53
1:2:164:A:H1'	8:S6:13:GLN:HE22	1.74	0.53
1:2:1793:G:O2'	28:D6:5:ARG:NH2	2.42	0.53
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.09	0.53
3:S1:218:LEU:HD23	3:S1:219:LYS:N	2.24	0.53
4:S2:114:GLY:C	4:S2:115:ILE:HG13	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:5:HIS:HE1	15:C3:121:ARG:HG3	1.74	0.53
19:C7:5:ARG:O	19:C7:10:LYS:HE3	2.08	0.53
34:SR:176:LYS:HG2	34:SR:197:SER:O	2.08	0.53
36:1:1055:A:N6	36:1:2637:A:OP2	2.41	0.53
36:1:1933:A:OP2	86:1:3877:OHX:N6	2.41	0.53
36:1:2101:C:O2'	36:1:2102:U:O5'	2.22	0.53
36:1:2356:A:H5'	53:M7:138:LYS:HZ1	1.73	0.53
36:1:2359:C:H2'	36:1:2360:C:H6	1.73	0.53
40:L3:227:GLU:HG2	40:L3:270:ARG:HD3	1.89	0.53
45:L8:254:ASP:O	45:L8:256:ALA:N	2.42	0.53
52:M6:54:TYR:CE2	52:M6:58:LEU:HD13	2.44	0.53
60:N4:25:ASP:OD2	60:N4:27:LYS:HB2	2.09	0.53
61:N5:130:TYR:N	61:N5:130:TYR:CD1	2.77	0.53
71:O5:95:PHE:O	71:O5:97:ALA:N	2.39	0.53
1:6:66:U:H5'	8:s6:173:PRO:HA	1.91	0.53
1:6:189:C:N4	10:s8:138:ASN:OD1	2.42	0.53
1:6:407:A:H2'	1:6:408:C:C6	2.44	0.53
1:6:417:A:H8	1:6:417:A:O5'	1.92	0.53
1:6:1417:A:OP1	86:6:2086:OHX:N4	2.42	0.53
6:s4:252:ARG:HB3	6:s4:252:ARG:HH21	1.73	0.53
11:s9:171:ARG:HH11	11:s9:174:ARG:HB3	1.74	0.53
22:d0:46:GLU:HA	22:d0:49:ASN:HA	1.91	0.53
22:d0:58:LEU:HD13	22:d0:88:LYS:HB3	1.91	0.53
36:5:119:U:H4'	36:5:120:G:H5''	1.89	0.53
36:5:332:C:N3	38:8:31:G:N1	2.42	0.53
36:5:553:U:H2'	36:5:554:A:O4'	2.09	0.53
36:5:1782:U:H2'	36:5:1783:U:C6	2.43	0.53
36:5:1785:U:H2'	36:5:1786:G:H8	1.72	0.53
36:5:2623:G:H2'	36:5:2624:G:H8	1.73	0.53
36:5:3199:G:C2	36:5:3200:G:C8	2.97	0.53
39:l2:5:ILE:HG12	39:l2:8:GLN:HG3	1.90	0.53
43:l6:39:VAL:O	43:l6:40:LEU:HD23	2.09	0.53
45:l8:63:LYS:O	45:l8:66:SER:N	2.42	0.53
51:m5:48:ALA:C	51:m5:53:TYR:HB3	2.32	0.53
57:n1:102:ARG:O	57:n1:106:LEU:HG	2.08	0.53
62:n6:100:HIS:CD2	62:n6:101:PRO:HD2	2.43	0.53
1:2:61:A:C8	1:2:269:G:O2'	2.61	0.53
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.42	0.53
1:2:458:G:OP2	26:D4:105:ARG:NH2	2.41	0.53
1:2:1228:G:N1	14:C2:67:THR:HB	2.18	0.53
1:2:1600:A:O2'	1:2:1602:C:N4	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:117:GLU:O	4:S2:40:LYS:NZ	2.42	0.53
3:S1:81:PHE:CE1	3:S1:109:LYS:HE2	2.44	0.53
5:S3:91:VAL:HG23	5:S3:92:GLN:OE1	2.08	0.53
6:S4:23:LEU:HD22	6:S4:23:LEU:H	1.71	0.53
20:C8:91:ASP:O	20:C8:92:ILE:HB	2.07	0.53
20:C8:113:LEU:HD21	20:C8:127:HIS:CE1	2.43	0.53
34:SR:22:SER:HB2	34:SR:70:ASP:HA	1.90	0.53
36:1:675:C:O2'	36:1:679:U:OP1	2.25	0.53
39:L2:133:TYR:HE1	39:L2:135:ILE:HD11	1.73	0.53
50:M4:24:LYS:HE2	50:M4:25:LYS:NZ	2.24	0.53
50:M4:115:PHE:O	50:M4:119:GLN:HG3	2.08	0.53
53:M7:172:GLN:NE2	69:O3:61:GLY:HA3	2.23	0.53
55:M9:108:LYS:O	55:M9:112:ALA:N	2.37	0.53
60:N4:34:SER:HA	60:N4:37:ALA:HB3	1.89	0.53
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.39	0.53
1:6:330:G:O2'	10:s8:33:PRO:HB3	2.09	0.53
1:6:363:G:OP1	86:6:2111:OHX:N1	2.41	0.53
1:6:570:A:H5''	1:6:571:G:OP2	2.09	0.53
1:6:1483:A:H4'	18:c6:71:GLY:HA2	1.91	0.53
6:s4:208:VAL:HG21	6:s4:225:VAL:HG21	1.90	0.53
11:s9:146:PHE:O	11:s9:147:MET:HB2	2.08	0.53
23:d1:56:SER:OG	23:d1:59:VAL:HG23	2.08	0.53
36:5:76:G:H3'	49:m3:73:ARG:HD2	1.90	0.53
36:5:292:U:OP2	51:m5:68:ARG:NH2	2.41	0.53
36:5:561:C:H2'	36:5:562:C:C6	2.41	0.53
36:5:2112:U:OP2	60:n4:48:ARG:NH1	2.42	0.53
36:5:2319:U:O4	86:5:3989:OHX:N2	2.42	0.53
39:l2:238:ILE:C	39:l2:240:ALA:H	2.17	0.53
47:m0:38:LYS:HB2	47:m0:83:ASP:HA	1.90	0.53
50:m4:125:LYS:HA	50:m4:128:ARG:NH1	2.24	0.53
56:n0:139:TYR:CD2	56:n0:140:VAL:HG23	2.44	0.53
61:n5:105:VAL:HG21	61:n5:135:ILE:HG13	1.90	0.53
68:o2:4:LEU:HD12	68:o2:5:PRO:HD3	1.91	0.53
69:o3:8:TYR:CE1	69:o3:99:ARG:HD3	2.44	0.53
70:o4:58:ARG:O	70:o4:61:GLN:HB2	2.08	0.53
82:m2:136:UNK:O	82:m2:138:UNK:N	2.42	0.53
6:S4:163:ASP:HB3	6:S4:166:SER:O	2.09	0.53
7:S5:44:ASN:OD1	7:S5:70:VAL:HG12	2.09	0.53
8:S6:53:SER:OG	8:S6:110:ALA:O	2.22	0.53
18:C6:71:GLY:O	18:C6:77:GLN:NE2	2.42	0.53
25:D3:87:VAL:HG12	25:D3:92:CYS:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.34	0.53
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.09	0.53
36:1:708:G:H5''	36:1:708:G:H8	1.74	0.53
36:1:829:U:H3	36:1:895:A:H62	1.57	0.53
36:1:830:A:OP1	86:1:4005:OHX:N4	2.42	0.53
36:1:1327:C:O3'	69:O3:76:GLY:HA2	2.09	0.53
36:1:1724:U:H1'	36:1:1725:C:C6	2.44	0.53
36:1:1807:G:C6	36:1:1808:G:N1	2.77	0.53
36:1:2355:G:H4'	53:M7:139:TYR:CZ	2.43	0.53
36:1:2703:A:N6	42:L5:23:ARG:HG2	2.24	0.53
36:1:3039:C:H2'	36:1:3040:A:H8	1.74	0.53
36:1:3039:C:H2'	36:1:3040:A:C8	2.44	0.53
36:1:3317:U:H4'	36:1:3318:G:O5'	2.09	0.53
40:L3:108:GLU:HB2	40:L3:137:TYR:CD1	2.44	0.53
41:L4:11:LEU:HD13	41:L4:159:ILE:HD11	1.90	0.53
45:L8:56:VAL:O	45:L8:60:ARG:HG3	2.08	0.53
45:L8:100:GLU:OE2	45:L8:105:LYS:HD2	2.08	0.53
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	1.91	0.53
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.90	0.53
1:6:333:A:N6	1:6:334:G:O6	2.42	0.53
1:6:639:U:P	9:s7:117:THR:HG23	2.48	0.53
6:s4:159:THR:HG22	6:s4:173:ILE:HB	1.90	0.53
8:s6:3:LEU:HD22	8:s6:111:LEU:HD11	1.91	0.53
24:d2:11:LEU:O	24:d2:15:ASN:HB2	2.09	0.53
26:d4:20:ARG:HB3	26:d4:76:TYR:CD2	2.43	0.53
36:5:34:A:H2'	36:5:35:A:C8	2.44	0.53
36:5:438:A:H2'	36:5:494:G:H21	1.74	0.53
36:5:563:U:H2'	36:5:564:G:C8	2.44	0.53
36:5:1113:G:O2'	36:5:1369:A:N3	2.34	0.53
36:5:1451:C:H42	36:5:2353:G:H1	1.57	0.53
36:5:1685:C:H2'	36:5:1686:U:H6	1.74	0.53
36:5:2846:U:O2	86:5:4046:OHX:N5	2.42	0.53
36:5:3186:A:C2	46:l9:44:THR:HG22	2.44	0.53
36:5:3294:A:H2'	36:5:3295:A:O4'	2.09	0.53
37:7:23:A:H2'	37:7:24:A:C8	2.44	0.53
42:l5:281:GLU:O	42:l5:284:ALA:HB3	2.09	0.53
50:m4:22:LEU:HD22	50:m4:94:TRP:CH2	2.44	0.53
4:S2:175:GLY:HA3	11:S9:53:ARG:HH22	1.74	0.53
15:C3:36:GLN:HB3	15:C3:54:LEU:HD21	1.91	0.53
20:C8:46:VAL:HG22	20:C8:72:ILE:HG22	1.90	0.53
27:D5:49:ARG:NH2	27:D5:53:GLU:OE2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:64:HIS:HD1	34:SR:86:ASP:CG	2.15	0.53
36:1:92:G:H5'	36:1:93:C:H5''	1.89	0.53
36:1:718:G:C2	36:1:721:G:H1'	2.44	0.53
36:1:1004:U:C2	36:1:1005:G:C8	2.97	0.53
36:1:1506:A:C4	36:1:1513:G:N2	2.77	0.53
36:1:1547:G:H2'	36:1:1548:C:C6	2.44	0.53
36:1:2225:U:H2'	36:1:2226:U:H6	1.74	0.53
36:1:2641:U:H5''	36:1:2642:A:OP1	2.09	0.53
36:1:2766:U:O4	86:1:4033:OHX:N2	2.41	0.53
41:L4:285:ASP:OD1	41:L4:288:ARG:HB2	2.08	0.53
48:M1:53:THR:OG1	48:M1:60:ARG:HA	2.09	0.53
55:M9:127:SER:HB3	55:M9:132:PHE:HD2	1.74	0.53
59:N3:108:GLU:HG2	59:N3:128:ARG:NH1	2.24	0.53
74:O8:61:LYS:O	74:O8:65:LEU:HB2	2.09	0.53
79:Q3:28:LYS:HG2	79:Q3:29:LEU:HG	1.91	0.53
1:6:196:G:C2	1:6:197:A:H1'	2.42	0.53
1:6:719:U:N3	1:6:721:U:H5	2.06	0.53
1:6:859:A:C6	15:c3:73:ARG:HD3	2.44	0.53
1:6:1351:G:OP1	18:c6:66:ARG:NH1	2.42	0.53
1:6:1546:G:OP1	20:c8:123:ARG:NH1	2.42	0.53
3:s1:27:LYS:HD3	3:s1:47:LEU:HD22	1.91	0.53
3:s1:52:THR:OG1	3:s1:55:LYS:HB3	2.07	0.53
10:s8:116:HIS:CD2	10:s8:146:ARG:HD3	2.44	0.53
11:s9:104:PHE:HB3	11:s9:147:MET:HE1	1.91	0.53
11:s9:117:GLY:O	11:s9:119:ALA:N	2.42	0.53
22:d0:44:ASN:CG	22:d0:102:ARG:HH21	2.17	0.53
36:5:658:G:N2	41:l4:93:MET:HB2	2.24	0.53
36:5:679:U:O2'	36:5:788:C:O2	2.27	0.53
36:5:1806:A:H2'	36:5:1807:G:O4'	2.08	0.53
36:5:2389:C:OP1	53:m7:80:LYS:NZ	2.42	0.53
36:5:3084:C:H2'	36:5:3085:G:O4'	2.08	0.53
41:l4:345:GLU:O	41:l4:346:LYS:HB2	2.09	0.53
42:l5:40:HIS:CE1	57:n1:69:LYS:HA	2.43	0.53
42:l5:158:ARG:HB2	42:l5:158:ARG:HH21	1.74	0.53
54:m8:94:PHE:O	54:m8:96:PHE:N	2.42	0.53
55:m9:68:GLN:HA	55:m9:71:ARG:HG2	1.91	0.53
56:n0:155:ARG:HD3	56:n0:172:TYR:CD2	2.44	0.53
66:o0:66:LYS:HD2	66:o0:66:LYS:N	2.23	0.53
1:2:73:U:H4'	1:2:74:U:OP1	2.09	0.53
1:2:384:G:OP1	86:2:2063:OHX:N5	2.42	0.53
1:2:992:A:O2'	1:2:1785:U:O2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:50:ILE:HB	5:S3:88:ALA:HA	1.91	0.53
7:S5:205:SER:C	7:S5:207:THR:H	2.17	0.53
8:S6:25:ARG:HA	8:S6:28:PHE:CD1	2.44	0.53
9:S7:63:PRO:O	9:S7:64:VAL:HG23	2.09	0.53
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.08	0.53
13:C1:101:GLU:OE1	25:D3:16:ARG:NH2	2.41	0.53
27:D5:93:SER:HB3	27:D5:100:ILE:HB	1.91	0.53
36:1:973:A:P	54:M8:12:ARG:HH12	2.32	0.53
36:1:1109:U:H2'	36:1:1110:U:C6	2.44	0.53
36:1:1686:U:O2	36:1:1688:U:H1'	2.08	0.53
36:1:2258:U:H2'	36:1:2259:A:O4'	2.09	0.53
36:1:2381:G:C2'	36:1:2382:G:H5'	2.39	0.53
36:1:2997:G:H1'	36:1:3396:U:H5'	1.91	0.53
36:1:3066:U:O4	86:1:4131:OHX:N5	2.42	0.53
36:1:3203:U:H2'	36:1:3204:C:C6	2.44	0.53
36:1:3275:U:H5'	69:O3:68:TRP:HE1	1.73	0.53
38:4:3:A:OP1	86:4:236:OHX:N2	2.42	0.53
40:L3:68:HIS:CD2	40:L3:69:LYS:HG3	2.44	0.53
44:L7:52:GLN:O	44:L7:56:GLU:HG2	2.09	0.53
44:L7:108:LEU:HD21	44:L7:115:THR:HG23	1.91	0.53
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.38	0.53
52:M6:3:VAL:HG13	52:M6:4:GLU:N	2.24	0.53
53:M7:50:GLN:O	53:M7:53:ASP:N	2.31	0.53
53:M7:108:ASP:O	53:M7:111:LYS:N	2.40	0.53
59:N3:13:ILE:HD12	59:N3:85:TRP:CG	2.44	0.53
61:N5:86:VAL:HG11	61:N5:95:ILE:HD11	1.91	0.53
69:O3:59:VAL:O	69:O3:61:GLY:N	2.42	0.53
1:6:371:G:O3'	24:d2:88:LYS:NZ	2.42	0.53
1:6:513:U:H5'	11:s9:133:HIS:CE1	2.44	0.53
1:6:1080:U:O2'	1:6:1081:A:H5'	2.09	0.53
1:6:1148:C:O2'	1:6:1149:G:H5'	2.09	0.53
1:6:1697:G:H8	1:6:1705:C:N3	2.07	0.53
6:s4:92:LEU:O	6:s4:95:THR:HG22	2.08	0.53
6:s4:97:GLU:HG2	6:s4:113:ARG:HH22	1.73	0.53
7:s5:44:ASN:OD1	7:s5:115:LYS:HB2	2.08	0.53
12:c0:43:ILE:O	12:c0:47:GLN:HB3	2.09	0.53
13:c1:57:LYS:HD3	13:c1:131:ILE:HG23	1.91	0.53
16:c4:13:VAL:N	16:c4:77:THR:OG1	2.40	0.53
36:5:503:C:O2	43:l6:23:LYS:HE3	2.08	0.53
36:5:1806:A:OP2	86:5:4018:OHX:N5	2.42	0.53
36:5:2882:U:O4	40:l3:4:ARG:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3325:G:H5''	67:o1:103:GLY:HA2	1.90	0.53
37:7:1:G:N3	42:l5:269:SER:OG	2.27	0.53
40:l3:117:ARG:HA	40:l3:175:LYS:HD2	1.91	0.53
40:l3:221:THR:HG22	40:l3:272:TYR:N	2.24	0.53
44:l7:102:VAL:HG13	44:l7:126:LEU:HD22	1.91	0.53
44:l7:110:ARG:CZ	54:m8:3:ILE:HD12	2.39	0.53
48:m1:139:THR:HG22	48:m1:146:GLY:O	2.09	0.53
51:m5:91:GLU:O	51:m5:93:LYS:NZ	2.38	0.53
52:m6:110:PRO:O	52:m6:112:TYR:N	2.42	0.53
71:o5:24:LEU:HB3	71:o5:51:ILE:HG12	1.91	0.53
1:2:744:U:H5'	1:2:745:U:OP2	2.09	0.52
1:2:1166:A:H2'	1:2:1167:G:O4'	2.10	0.52
6:S4:36:HIS:CG	6:S4:85:GLY:HA3	2.44	0.52
9:S7:77:LEU:HD22	9:S7:81:LEU:HD11	1.92	0.52
34:SR:11:GLY:HA3	34:SR:54:PHE:HB2	1.89	0.52
34:SR:16:HIS:CE1	34:SR:37:SER:HB3	2.44	0.52
36:1:849:C:O2'	36:1:850:U:H5'	2.09	0.52
36:1:1048:A:N1	36:1:2646:C:O2'	2.40	0.52
36:1:1618:G:H4'	38:4:129:C:H1'	1.91	0.52
36:1:1941:C:H1'	36:1:3362:A:H8	1.73	0.52
36:1:2121:G:HO2'	36:1:2122:G:P	2.31	0.52
36:1:2379:U:H2'	36:1:2380:U:H6	1.72	0.52
37:3:3:U:H2'	37:3:4:U:H6	1.74	0.52
42:L5:261:THR:HG23	42:L5:264:GLN:OE1	2.09	0.52
42:L5:286:VAL:HG13	47:M0:206:LEU:HD22	1.91	0.52
47:M0:31:ILE:HA	47:M0:66:GLU:HB2	1.91	0.52
72:O6:26:ILE:O	72:O6:29:LYS:N	2.42	0.52
1:6:85:A:O3'	26:d4:120:GLY:HA2	2.09	0.52
1:6:758:U:OP1	11:s9:7:THR:HG21	2.08	0.52
1:6:871:G:H2'	1:6:872:G:C8	2.44	0.52
1:6:1098:U:OP2	4:s2:168:ARG:NE	2.41	0.52
2:s0:90:ALA:HB1	2:s0:95:ALA:O	2.09	0.52
34:sR:195:HIS:NE2	34:sR:213:SER:OG	2.37	0.52
36:5:507:U:H2'	36:5:508:U:H6	1.72	0.52
36:5:656:A:H2'	36:5:657:A:H8	1.73	0.52
36:5:731:U:H2'	36:5:732:C:H6	1.72	0.52
36:5:1580:A:OP1	36:5:2522:G:N2	2.40	0.52
36:5:2552:C:OP1	70:o4:102:LYS:NZ	2.41	0.52
40:l3:346:THR:O	40:l3:348:ARG:N	2.43	0.52
42:l5:261:THR:C	42:l5:263:GLU:H	2.17	0.52
44:l7:88:ARG:HD2	44:l7:90:LYS:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:20:ILE:HG12	46:l9:25:VAL:HG22	1.91	0.52
52:m6:171:LYS:O	52:m6:175:THR:HG23	2.09	0.52
1:2:97:C:H2'	1:2:98:U:H6	1.74	0.52
1:2:737:A:HO2'	1:2:738:G:H8	1.55	0.52
1:2:901:G:N2	16:C4:54:GLU:OE1	2.43	0.52
1:2:932:U:OP2	3:S1:155:TYR:OH	2.27	0.52
1:2:1061:A:H2'	1:2:1062:A:H5'	1.91	0.52
1:2:1586:A:H1'	1:2:1611:A:N6	2.24	0.52
2:S0:110:TYR:CE2	4:S2:64:LYS:HB3	2.42	0.52
2:S0:195:TRP:CE2	2:S0:197:ILE:HG13	2.44	0.52
3:S1:195:LYS:HA	3:S1:198:GLU:HB3	1.92	0.52
7:S5:99:MET:HG3	7:S5:180:ARG:HH21	1.73	0.52
10:S8:171:SER:HG	10:S8:180:ASP:H	1.50	0.52
22:D0:72:ASN:HD22	22:D0:73:GLY:H	1.56	0.52
27:D5:38:HIS:HE1	27:D5:70:LYS:HA	1.72	0.52
27:D5:41:ILE:HG13	27:D5:42:LEU:HG	1.91	0.52
36:1:109:A:H8	36:1:109:A:O5'	1.92	0.52
36:1:971:G:H2'	36:1:972:A:O4'	2.09	0.52
36:1:1564:U:H2'	36:1:1565:G:C8	2.43	0.52
36:1:1661:G:H2'	36:1:1662:G:C8	2.44	0.52
36:1:1809:A:H2'	36:1:1810:A:O4'	2.08	0.52
36:1:1818:U:H2'	36:1:1819:U:O4'	2.09	0.52
41:L4:316:ASN:HD22	41:L4:319:LYS:HE2	1.75	0.52
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.43	0.52
46:L9:41:ILE:HD12	46:L9:71:VAL:HG21	1.91	0.52
51:M5:4:TYR:O	51:M5:7:LEU:N	2.42	0.52
68:O2:94:ALA:HB3	68:O2:119:VAL:HG22	1.90	0.52
73:O7:52:LYS:HA	73:O7:55:ARG:HD2	1.91	0.52
1:6:161:U:OP2	8:s6:87:ARG:NH2	2.43	0.52
1:6:276:C:O2'	1:6:277:U:H5''	2.08	0.52
1:6:610:G:H21	25:d3:19:ARG:NH1	2.07	0.52
1:6:876:G:H2'	1:6:936:G:N2	2.24	0.52
5:s3:27:ARG:O	12:c0:58:GLN:NE2	2.42	0.52
7:s5:186:ASN:OD1	7:s5:187:ILE:N	2.42	0.52
14:c2:56:GLU:OE1	14:c2:124:LYS:NZ	2.41	0.52
23:d1:71:ARG:HH11	29:d7:4:VAL:HG11	1.74	0.52
25:d3:69:ARG:NH1	25:d3:116:ASP:OD1	2.43	0.52
36:5:30:G:P	51:m5:172:ARG:HH11	2.31	0.52
36:5:339:C:OP1	36:5:1380:G:O2'	2.27	0.52
36:5:818:C:H5''	73:o7:10:LYS:HB2	1.91	0.52
36:5:838:G:O6	79:q3:4:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1944:U:H2'	36:5:1945:A:C8	2.44	0.52
36:5:3269:U:H5'	36:5:3271:G:O4'	2.09	0.52
40:l3:286:GLY:HA3	40:l3:321:PHE:CZ	2.44	0.52
46:l9:90:MET:HE1	46:l9:158:ALA:O	2.09	0.52
50:m4:17:VAL:HG11	50:m4:74:ARG:HA	1.91	0.52
64:n8:127:ALA:O	64:n8:148:ILE:HG12	2.09	0.52
70:o4:41:ARG:HB2	70:o4:43:LYS:HE3	1.92	0.52
2:S0:179:ARG:HH11	2:S0:183:ARG:HH11	1.57	0.52
10:S8:36:THR:HB	10:S8:57:ALA:O	2.08	0.52
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.91	0.52
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.91	0.52
24:D2:86:ILE:HD12	24:D2:87:GLU:HG3	1.91	0.52
24:D2:105:THR:OG1	24:D2:126:LEU:HG	2.08	0.52
30:D8:11:LYS:HE2	30:D8:33:LEU:HD21	1.91	0.52
36:1:1064:A:H5''	36:1:1066:G:O4'	2.09	0.52
36:1:1708:C:H2'	36:1:1709:C:C6	2.44	0.52
36:1:2240:G:H2'	36:1:2241:U:O4'	2.10	0.52
36:1:2413:A:H2'	36:1:2414:G:H8	1.74	0.52
36:1:2516:U:O2'	36:1:2595:A:N6	2.41	0.52
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.44	0.52
49:M3:18:TRP:O	49:M3:20:GLU:N	2.42	0.52
49:M3:104:ARG:C	72:O6:20:MET:HB2	2.35	0.52
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.09	0.52
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.10	0.52
78:Q2:28:TYR:CD2	78:Q2:28:TYR:C	2.87	0.52
1:6:1489:U:C4	1:6:1513:G:C6	2.97	0.52
1:6:1496:U:HO2'	1:6:1519:U:HO2'	1.52	0.52
5:s3:26:THR:HG23	5:s3:34:TYR:HD1	1.75	0.52
6:s4:95:THR:HG23	6:s4:97:GLU:H	1.74	0.52
8:s6:157:VAL:HG11	8:s6:175:ILE:HD11	1.92	0.52
13:c1:23:PRO:O	13:c1:25:VAL:N	2.42	0.52
25:d3:92:CYS:HG	25:d3:136:TRP:CD1	2.28	0.52
26:d4:25:VAL:N	26:d4:71:GLY:O	2.39	0.52
26:d4:35:VAL:HG13	26:d4:36:SER:H	1.74	0.52
36:5:286:U:H2'	36:5:287:G:C8	2.44	0.52
36:5:1049:C:C2	36:5:1050:U:C5	2.98	0.52
36:5:1112:A:H5''	36:5:1113:G:OP2	2.09	0.52
36:5:1155:C:H2'	36:5:1156:C:C6	2.42	0.52
36:5:1565:G:N2	36:5:1566:A:H1'	2.24	0.52
36:5:1584:U:H2'	36:5:1585:C:C6	2.44	0.52
36:5:1779:C:N4	55:m9:88:ARG:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2594:C:H2'	36:5:2595:A:O4'	2.09	0.52
36:5:3287:U:H2'	36:5:3288:G:H5'	1.90	0.52
46:l9:48:VAL:HG21	46:l9:52:LEU:HD13	1.91	0.52
48:m1:48:SER:HB2	48:m1:66:ALA:O	2.09	0.52
55:m9:4:LEU:HB3	55:m9:7:GLN:HG2	1.91	0.52
55:m9:172:ARG:O	55:m9:176:ARG:HG2	2.09	0.52
57:n1:96:ILE:HG22	57:n1:97:LYS:O	2.10	0.52
62:n6:5:SER:C	62:n6:7:ASP:H	2.18	0.52
64:n8:111:LYS:HA	64:n8:129:PHE:O	2.08	0.52
68:o2:123:LYS:HA	68:o2:126:LEU:HD12	1.91	0.52
1:2:386:G:C6	1:2:387:A:N6	2.77	0.52
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.09	0.52
1:2:1650:U:H2'	1:2:1651:A:H8	1.72	0.52
6:S4:126:VAL:HG12	6:S4:158:ASP:O	2.09	0.52
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.09	0.52
8:S6:5:ILE:HA	8:S6:111:LEU:O	2.09	0.52
8:S6:164:LYS:O	8:S6:166:GLU:N	2.43	0.52
11:S9:107:ARG:O	11:S9:147:MET:HA	2.09	0.52
24:D2:18:GLU:HG2	24:D2:65:LEU:HG	1.91	0.52
29:D7:50:ALA:HB1	29:D7:52:THR:O	2.10	0.52
29:D7:61:THR:HG23	29:D7:62:ILE:N	2.25	0.52
31:D9:5:ASN:CG	31:D9:7:TRP:HE1	2.17	0.52
36:1:1019:G:H2'	36:1:1020:G:O4'	2.09	0.52
36:1:3316:A:N6	40:L3:124:LYS:HG2	2.24	0.52
41:L4:25:VAL:O	41:L4:28:ALA:N	2.38	0.52
42:L5:56:THR:OG1	42:L5:59:ASP:HB3	2.09	0.52
42:L5:85:ARG:HH21	42:L5:254:LYS:N	2.04	0.52
55:M9:168:ALA:HB1	55:M9:172:ARG:CZ	2.40	0.52
67:O1:46:THR:HG21	67:O1:91:SER:OG	2.09	0.52
72:O6:83:ALA:O	72:O6:87:VAL:HG23	2.10	0.52
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.09	0.52
1:6:1:U:C4	11:s9:54:ARG:HG3	2.45	0.52
1:6:82:U:H2'	1:6:83:G:O4'	2.09	0.52
1:6:166:C:O2	8:s6:133:LEU:HD13	2.08	0.52
1:6:512:A:O2'	11:s9:133:HIS:HE1	1.92	0.52
1:6:903:U:H2'	1:6:905:A:OP2	2.10	0.52
1:6:1257:U:O2'	1:6:1258:U:O5'	2.27	0.52
1:6:1372:U:H2'	1:6:1373:C:C6	2.45	0.52
1:6:1726:G:N7	86:6:2147:OHX:N5	2.58	0.52
13:c1:128:CYS:O	13:c1:129:ARG:HB3	2.09	0.52
14:c2:88:LEU:O	14:c2:89:ILE:HB	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:85:ILE:HG13	17:c5:114:HIS:O	2.10	0.52
17:c5:119:PHE:HA	35:sM:57:ASN:ND2	2.25	0.52
21:c9:53:TRP:CH2	21:c9:100:ILE:HD12	2.41	0.52
33:e1:108:VAL:HG12	33:e1:114:VAL:HG13	1.91	0.52
36:5:136:G:H2'	36:5:137:G:C8	2.45	0.52
36:5:662:U:H2'	36:5:663:C:C6	2.45	0.52
36:5:1654:A:N3	70:o4:59:PRO:HB3	2.24	0.52
37:7:60:G:N2	42:l5:274:GLN:OE1	2.34	0.52
39:l2:5:ILE:HD11	39:l2:232:GLY:HA2	1.91	0.52
40:l3:139:GLN:HE22	40:l3:143:GLY:H	1.56	0.52
40:l3:187:SER:O	40:l3:189:SER:N	2.41	0.52
45:l8:85:ASN:N	45:l8:85:ASN:OD1	2.42	0.52
45:l8:134:TYR:CD2	45:l8:190:VAL:HG11	2.45	0.52
45:l8:160:ILE:HG23	45:l8:164:VAL:CG1	2.39	0.52
51:m5:73:ARG:HG2	51:m5:75:VAL:HG22	1.90	0.52
62:n6:71:SER:OG	62:n6:83:ASP:N	2.42	0.52
82:m2:143:UNK:C	82:m2:145:UNK:H	2.23	0.52
1:2:218:A:N6	1:2:844:A:H1'	2.24	0.52
1:2:274:G:C2	1:2:275:C:H1'	2.44	0.52
1:2:331:A:H5'	10:S8:33:PRO:HA	1.91	0.52
1:2:1222:C:H2'	1:2:1223:A:C8	2.44	0.52
1:2:1449:U:H2'	1:2:1450:U:C6	2.45	0.52
12:C0:81:ASN:HB2	14:C2:37:VAL:HG13	1.92	0.52
16:C4:23:PHE:HE2	16:C4:91:THR:HG21	1.74	0.52
21:C9:117:SER:OG	21:C9:118:PRO:O	2.26	0.52
23:D1:58:TYR:O	23:D1:61:SER:OG	2.26	0.52
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.92	0.52
34:SR:165:ASP:O	34:SR:167:VAL:N	2.43	0.52
36:1:244:G:C2	36:1:245:U:H1'	2.44	0.52
36:1:386:A:H2'	36:1:387:A:O4'	2.09	0.52
36:1:839:C:H4'	36:1:1724:U:H3'	1.91	0.52
36:1:918:C:H2'	36:1:919:U:H5'	1.92	0.52
36:1:1014:U:C2'	36:1:1015:U:H5''	2.39	0.52
36:1:1144:U:H1'	36:1:1145:G:C8	2.45	0.52
36:1:2273:G:O6	86:1:4135:OHX:N5	2.43	0.52
36:1:2510:U:O2'	36:1:2511:A:H8	1.93	0.52
36:1:2714:G:H4'	36:1:2715:A:O5'	2.09	0.52
40:L3:152:LYS:HD3	40:L3:189:SER:HA	1.92	0.52
46:L9:157:ASN:HD22	46:L9:157:ASN:C	2.18	0.52
47:M0:17:TYR:O	47:M0:96:VAL:HB	2.09	0.52
55:M9:130:ASN:C	55:M9:132:PHE:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:66:LYS:O	59:N3:68:GLU:N	2.42	0.52
60:N4:4:GLU:HG3	60:N4:5:ILE:H	1.75	0.52
74:O8:14:LEU:HD23	74:O8:17:ARG:HD3	1.90	0.52
1:6:959:U:H5'	29:d7:28:PRO:HB3	1.92	0.52
4:s2:175:GLY:HA3	11:s9:97:LEU:O	2.10	0.52
9:s7:77:LEU:O	9:s7:81:LEU:HB2	2.09	0.52
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	1.90	0.52
36:5:577:C:O2'	41:l4:340:GLY:HA3	2.10	0.52
36:5:1080:A:OP1	42:l5:140:ARG:HD3	2.10	0.52
36:5:2603:G:O6	86:5:3897:OHX:N1	2.43	0.52
36:5:2736:A:O2'	57:n1:68:THR:HG21	2.09	0.52
36:5:2767:U:O4	86:5:4113:OHX:N3	2.42	0.52
36:5:2827:U:O4	86:5:3894:OHX:N6	2.42	0.52
36:5:3122:A:H2'	36:5:3123:A:H5'	1.92	0.52
37:7:4:U:H2'	37:7:5:G:C8	2.44	0.52
40:l3:92:TYR:CE1	40:l3:159:ARG:HD2	2.45	0.52
52:m6:54:TYR:CE2	52:m6:58:LEU:HD13	2.44	0.52
63:n7:103:GLN:HB3	63:n7:105:SER:OG	2.10	0.52
64:n8:128:ARG:HB2	72:o6:8:ALA:HB2	1.91	0.52
66:o0:86:ARG:NH1	79:q3:44:LYS:HE3	2.25	0.52
70:o4:44:CYS:HB3	70:o4:49:SER:H	1.75	0.52
1:2:641:G:H2'	1:2:642:G:C8	2.44	0.52
1:2:793:A:H8	1:2:793:A:OP2	1.91	0.52
1:2:993:A:OP1	1:2:1777:G:N2	2.40	0.52
1:2:1188:G:O2'	1:2:1430:U:OP1	2.23	0.52
2:S0:88:LYS:NZ	19:C7:82:ASP:OD2	2.40	0.52
2:S0:125:ASP:OD1	2:S0:127:ARG:HB3	2.10	0.52
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.09	0.52
17:C5:55:GLY:O	17:C5:58:LYS:HB2	2.10	0.52
27:D5:42:LEU:HD12	27:D5:43:ASP:H	1.74	0.52
36:1:549:U:H2'	36:1:550:A:C8	2.44	0.52
36:1:1004:U:N3	36:1:1005:G:N7	2.58	0.52
36:1:1481:A:H2'	36:1:1481:A:N3	2.25	0.52
36:1:2932:U:O2	36:1:2934:A:H8	1.93	0.52
47:M0:77:THR:C	47:M0:79:VAL:H	2.17	0.52
54:M8:24:VAL:HA	54:M8:27:LYS:HE3	1.91	0.52
54:M8:44:PHE:O	54:M8:48:VAL:HG23	2.08	0.52
56:N0:40:ARG:O	56:N0:43:TYR:HB3	2.09	0.52
59:N3:127:PRO:O	59:N3:130:ALA:HB3	2.09	0.52
79:Q3:52:ALA:HB1	79:Q3:68:ALA:HA	1.91	0.52
1:6:36:C:C2	1:6:473:A:C2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:235:G:H2'	1:6:236:A:C8	2.44	0.52
1:6:240:U:H4'	1:6:241:U:OP2	2.09	0.52
4:s2:44:LEU:HD22	4:s2:49:LYS:HB2	1.92	0.52
4:s2:88:LYS:HB3	4:s2:95:ARG:HD2	1.91	0.52
28:d6:58:VAL:HG22	28:d6:59:TYR:H	1.74	0.52
33:e1:144:CYS:HB3	33:e1:147:VAL:HG12	1.92	0.52
36:5:1414:G:O6	86:5:4142:OHX:N1	2.42	0.52
36:5:1843:C:H2'	36:5:1844:C:H6	1.74	0.52
36:5:2912:G:H1'	36:5:3131:U:OP1	2.09	0.52
36:5:2960:C:OP1	86:5:3965:OHX:N5	2.42	0.52
86:5:3971:OHX:N6	86:5:4193:OHX:N5	2.58	0.52
86:7:220:OHX:N4	86:7:228:OHX:N6	2.57	0.52
40:l3:150:ARG:HH11	40:l3:150:ARG:CG	2.18	0.52
40:l3:213:GLU:H	40:l3:282:ILE:HB	1.73	0.52
41:l4:209:TYR:O	41:l4:230:VAL:HG22	2.10	0.52
42:l5:104:LEU:HD11	42:l5:108:ARG:NH2	2.25	0.52
47:m0:113:GLN:HA	47:m0:113:GLN:OE1	2.09	0.52
48:m1:40:LEU:HD11	48:m1:79:ILE:HG23	1.92	0.52
51:m5:183:THR:OG1	51:m5:184:LYS:N	2.38	0.52
53:m7:116:HIS:O	53:m7:149:VAL:N	2.42	0.52
63:n7:51:LEU:HD23	63:n7:52:LYS:HG2	1.91	0.52
1:2:1414:U:O2'	86:2:2025:OHX:N4	2.43	0.52
5:S3:7:LYS:HD3	22:D0:88:LYS:HE2	1.91	0.52
5:S3:74:GLN:HG3	5:S3:79:TYR:HB2	1.92	0.52
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.10	0.52
7:S5:144:GLU:HG3	7:S5:221:ALA:HB1	1.91	0.52
9:S7:11:GLN:OE1	9:S7:12:ALA:N	2.34	0.52
19:C7:47:ARG:HD2	19:C7:48:ASN:OD1	2.10	0.52
19:C7:99:VAL:CB	19:C7:118:PRO:HB2	2.40	0.52
26:D4:57:VAL:HA	26:D4:73:GLY:HA2	1.92	0.52
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.91	0.52
36:1:1544:G:H5'	51:M5:67:ARG:NE	2.23	0.52
36:1:1899:G:N7	86:1:3924:OHX:N3	2.58	0.52
36:1:2169:G:O6	86:1:3905:OHX:N4	2.43	0.52
36:1:2339:C:OP2	59:N3:48:ARG:HG3	2.10	0.52
36:1:2445:A:H61	36:1:2502:A:H2	1.57	0.52
36:1:2534:G:H2'	36:1:2535:A:H8	1.74	0.52
36:1:3280:U:O2'	36:1:3281:U:OP2	2.25	0.52
86:1:4194:OHX:N6	86:O1:202:OHX:N3	2.57	0.52
41:L4:226:GLU:OE2	41:L4:246:ARG:NH2	2.37	0.52
42:L5:292:ALA:O	42:L5:295:GLY:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:78:ARG:CG	52:M6:78:ARG:HH11	2.22	0.52
63:N7:46:ILE:HD11	63:N7:49:TYR:CG	2.45	0.52
1:6:75:U:O2'	1:6:76:A:O5'	2.23	0.52
1:6:515:A:H2'	1:6:516:G:O4'	2.10	0.52
1:6:696:C:H4'	1:6:697:C:H6	1.75	0.52
1:6:811:A:C2	1:6:858:G:H1'	2.44	0.52
3:s1:62:LYS:O	3:s1:64:ARG:N	2.33	0.52
8:s6:49:VAL:HB	8:s6:115:LYS:HG3	1.91	0.52
36:5:736:A:C6	36:5:737:G:H1'	2.44	0.52
40:l3:199:PHE:C	40:l3:201:LYS:H	2.17	0.52
40:l3:361:THR:HG22	40:l3:371:GLN:OE1	2.10	0.52
41:l4:120:TYR:CD2	41:l4:277:PRO:HG3	2.44	0.52
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.56	0.52
47:m0:99:ILE:CD1	47:m0:101:LYS:HB2	2.39	0.52
49:m3:90:ALA:HB1	49:m3:95:ILE:HD12	1.91	0.52
56:n0:75:PHE:HB2	56:n0:94:ILE:O	2.10	0.52
59:n3:17:LEU:HD21	59:n3:98:ASN:ND2	2.24	0.52
1:2:1313:A:H2'	1:2:1315:U:H5'	1.92	0.52
1:2:1395:G:O6	86:2:2097:OHX:N6	2.43	0.52
1:2:1527:C:H2'	1:2:1528:U:H6	1.75	0.52
5:S3:111:ASN:N	5:S3:111:ASN:HD22	2.07	0.52
23:D1:36:VAL:HG11	23:D1:78:LEU:HD13	1.92	0.52
28:D6:44:ILE:HD12	28:D6:45:VAL:N	2.25	0.52
36:1:109:A:H4'	36:1:110:G:OP1	2.08	0.52
36:1:550:A:N6	36:1:551:A:H62	2.07	0.52
36:1:1660:C:H2'	36:1:1661:G:C8	2.45	0.52
36:1:2190:U:C4	36:1:2191:U:C4	2.98	0.52
36:1:2352:A:OP1	53:M7:82:ARG:HD3	2.10	0.52
40:L3:187:SER:OG	40:L3:188:ILE:HD12	2.10	0.52
49:M3:18:TRP:C	49:M3:20:GLU:N	2.66	0.52
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.10	0.52
58:N2:43:VAL:HG11	58:N2:50:LEU:HA	1.92	0.52
63:N7:76:ASN:HB3	63:N7:79:HIS:ND1	2.25	0.52
1:6:804:A:C8	24:d2:107:SER:HA	2.44	0.52
1:6:1489:U:O2'	1:6:1490:C:OP2	2.28	0.52
1:6:1616:G:H4'	30:d8:18:ARG:NH1	2.25	0.52
21:c9:16:ASN:HA	21:c9:56:LYS:NZ	2.25	0.52
23:d1:25:LYS:HB2	23:d1:28:ASP:HB2	1.92	0.52
25:d3:61:SER:OG	25:d3:67:ALA:N	2.40	0.52
26:d4:51:GLU:O	26:d4:53:ASP:N	2.43	0.52
34:sR:5:GLU:HG2	34:sR:317:THR:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:307:ASP:O	34:sR:309:VAL:HG23	2.09	0.52
36:5:142:C:H2'	36:5:143:G:O4'	2.10	0.52
36:5:147:U:H5'	45:l8:136:LEU:HB2	1.92	0.52
36:5:257:U:H2'	36:5:258:G:C8	2.45	0.52
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.91	0.52
36:5:1139:G:O6	65:n9:10:HIS:NE2	2.40	0.52
36:5:1440:G:H2'	36:5:1441:G:O4'	2.10	0.52
36:5:2308:C:O2	86:5:4234:OHX:N1	2.43	0.52
36:5:2881:C:H2'	36:5:2882:U:C6	2.44	0.52
36:5:2896:A:H5'	36:5:2896:A:H8	1.74	0.52
40:l3:18:PRO:HG2	40:l3:20:LYS:HD2	1.92	0.52
42:l5:40:HIS:HB3	42:l5:43:LYS:HD2	1.91	0.52
42:l5:208:MET:HE3	42:l5:223:PHE:CD2	2.45	0.52
45:l8:73:PRO:HD3	45:l8:233:TRP:CG	2.44	0.52
45:l8:156:ASP:O	45:l8:183:LYS:HE3	2.10	0.52
45:l8:200:LEU:HD13	45:l8:203:VAL:HG23	1.92	0.52
48:m1:160:VAL:O	48:m1:163:PHE:N	2.42	0.52
51:m5:199:LEU:HD13	51:m5:203:ARG:CZ	2.40	0.52
63:n7:13:VAL:HG12	63:n7:14:VAL:H	1.75	0.52
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.08	0.52
1:2:795:U:C5	1:2:796:A:C8	2.98	0.52
1:2:871:G:O2'	29:D7:66:PRO:HB2	2.10	0.52
1:2:973:A:H2'	1:2:974:A:C8	2.43	0.52
1:2:1107:G:H3'	1:2:1108:G:H21	1.73	0.52
1:2:1158:C:OP2	86:2:2173:OHX:N5	2.43	0.52
5:S3:8:LYS:HE2	22:D0:61:LYS:HD3	1.91	0.52
6:S4:158:ASP:OD1	6:S4:158:ASP:N	2.42	0.52
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.91	0.52
21:C9:10:ALA:HB3	21:C9:13:ASP:HB2	1.92	0.52
26:D4:76:TYR:OH	26:D4:86:GLU:OE2	2.20	0.52
33:E1:127:GLY:C	33:E1:129:GLY:H	2.18	0.52
34:SR:175:ASP:OD1	34:SR:175:ASP:N	2.42	0.52
34:SR:203:THR:OG1	34:SR:204:ALA:N	2.40	0.52
35:SM:128:ALA:O	35:SM:131:ILE:HG22	2.10	0.52
36:1:94:G:H2'	36:1:95:A:C8	2.45	0.52
36:1:155:G:H1'	72:O6:26:ILE:CD1	2.39	0.52
36:1:265:A:H5''	36:1:266:A:OP2	2.09	0.52
36:1:824:C:H2'	36:1:825:U:H6	1.74	0.52
36:1:1245:A:H3'	36:1:1246:G:H5''	1.92	0.52
36:1:1461:A:H2'	36:1:1462:A:C8	2.45	0.52
36:1:1699:A:H2'	36:1:1700:G:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2741:C:O2'	78:Q2:20:HIS:ND1	2.40	0.52
36:1:2778:G:H2'	36:1:2779:A:H5'	1.91	0.52
36:1:3120:C:H3'	76:Q0:111:ARG:HH21	1.75	0.52
37:3:79:A:C2	37:3:102:A:C4	2.98	0.52
39:L2:209:HIS:HD2	39:L2:210:PRO:N	2.07	0.52
42:L5:60:ILE:HB	42:L5:80:SER:HB2	1.91	0.52
43:L6:76:LEU:HD12	43:L6:138:GLN:HA	1.91	0.52
43:L6:165:LEU:HD11	69:O3:102:LEU:HD11	1.91	0.52
44:L7:73:GLY:O	57:N1:143:THR:HB	2.10	0.52
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.92	0.52
52:M6:190:VAL:HG23	52:M6:194:LEU:HD12	1.91	0.52
54:M8:63:SER:OG	54:M8:65:SER:N	2.42	0.52
54:M8:83:VAL:HB	54:M8:103:ALA:HB2	1.92	0.52
1:6:882:U:H2'	1:6:883:C:H6	1.72	0.52
2:s0:147:THR:O	2:s0:161:PRO:HA	2.10	0.52
14:c2:43:ARG:HA	14:c2:121:VAL:HG12	1.91	0.52
25:d3:96:VAL:HG12	25:d3:127:VAL:HG21	1.91	0.52
30:d8:26:THR:O	30:d8:44:VAL:HG22	2.10	0.52
36:5:300:G:O6	86:5:4186:OHX:N2	2.43	0.52
36:5:359:U:H4'	36:5:817:A:N6	2.25	0.52
36:5:911:C:N4	39:l2:3:ARG:HD3	2.25	0.52
36:5:1401:A:C2	36:5:1411:C:C2	2.97	0.52
36:5:3060:C:H2'	36:5:3061:G:O4'	2.10	0.52
40:l3:103:THR:HG21	40:l3:147:GLU:OE2	2.09	0.52
49:m3:123:ILE:HG22	71:o5:118:ILE:HG12	1.90	0.52
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.10	0.52
71:o5:7:TYR:HA	71:o5:10:ARG:HE	1.74	0.52
81:p0:60:ARG:HB3	81:p0:64:ARG:NH1	2.25	0.52
1:2:487:G:H3'	1:2:488:G:H5''	1.91	0.52
1:2:702:G:N2	1:2:703:G:H1'	2.25	0.52
1:2:778:G:H3'	1:2:780:A:C2	2.44	0.52
1:2:1173:C:H2'	1:2:1174:C:H6	1.75	0.52
1:2:1183:A:C4	17:C5:100:LYS:HD3	2.44	0.52
1:2:1214:U:OP1	1:2:1246:C:H1'	2.10	0.52
1:2:1433:G:H2'	1:2:1434:U:C6	2.45	0.52
3:S1:29:TRP:CZ3	3:S1:45:LYS:HD2	2.45	0.52
5:S3:61:GLU:C	5:S3:63:GLY:H	2.18	0.52
5:S3:162:GLN:O	5:S3:165:ASN:N	2.42	0.52
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.45	0.52
36:1:542:G:H1	36:1:549:U:H3	1.56	0.52
36:1:1708:C:H2'	36:1:1709:C:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.45	0.52
36:1:2554:A:H62	79:Q3:62:LYS:NZ	2.04	0.52
36:1:3139:A:H5''	36:1:3139:A:H8	1.75	0.52
38:4:47:C:H1'	38:4:61:A:H2'	1.93	0.52
41:L4:158:SER:HA	41:L4:213:ASN:O	2.10	0.52
46:L9:20:ILE:HG23	46:L9:25:VAL:HA	1.92	0.52
54:M8:135:GLN:N	54:M8:135:GLN:OE1	2.42	0.52
63:N7:29:HIS:CE1	63:N7:42:LEU:HD11	2.45	0.52
1:6:25:C:H1'	1:6:26:A:OP2	2.10	0.52
1:6:76:A:H2'	1:6:76:A:N3	2.23	0.52
1:6:431:C:H2'	1:6:432:G:C8	2.45	0.52
1:6:1001:A:C6	1:6:1002:G:C6	2.97	0.52
1:6:1482:C:OP2	1:6:1521:G:N1	2.42	0.52
1:6:1488:G:O2'	1:6:1494:C:O2	2.20	0.52
1:6:1714:A:H2'	1:6:1715:G:O4'	2.10	0.52
86:6:2136:OHX:N3	10:s8:52:ASN:OD1	2.43	0.52
2:s0:112:THR:HG22	2:s0:115:PHE:HB2	1.92	0.52
10:s8:76:THR:HG22	10:s8:105:ASP:HB3	1.92	0.52
10:s8:84:HIS:HE1	10:s8:86:SER:HB2	1.75	0.52
10:s8:103:GLN:HB3	10:s8:164:ARG:HB3	1.90	0.52
11:s9:68:LYS:O	11:s9:72:GLU:HB2	2.10	0.52
36:5:269:G:OP1	51:m5:44:ARG:NH1	2.38	0.52
36:5:990:U:H4'	57:n1:100:LYS:HB3	1.92	0.52
36:5:1514:G:C6	36:5:1841:A:C5	2.97	0.52
36:5:1596:C:H2'	36:5:1597:C:C6	2.45	0.52
36:5:1615:C:H2'	36:5:1616:U:C6	2.43	0.52
36:5:2106:A:H2'	36:5:2107:A:H8	1.75	0.52
36:5:2694:A:N6	36:5:2695:A:N6	2.57	0.52
86:5:4014:OHX:N6	86:5:4212:OHX:N4	2.58	0.52
40:l3:347:SER:HB2	40:l3:350:ALA:HB2	1.92	0.52
49:m3:121:SER:O	49:m3:121:SER:OG	2.21	0.52
53:m7:155:GLU:CD	53:m7:155:GLU:H	2.14	0.52
55:m9:146:LYS:O	55:m9:149:ALA:N	2.40	0.52
60:n4:116:LYS:O	60:n4:119:GLU:HG3	2.09	0.52
63:n7:23:VAL:HG12	63:n7:45:GLY:HA3	1.92	0.52
1:2:263:C:N4	1:2:264:G:O6	2.43	0.51
2:S0:74:VAL:CG2	2:S0:118:PRO:HB3	2.41	0.51
5:S3:179:GLN:HE21	5:S3:179:GLN:C	2.18	0.51
7:S5:30:PRO:O	7:S5:34:GLN:N	2.36	0.51
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.91	0.51
9:S7:56:LYS:HB2	9:S7:88:ARG:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:57:ALA:HA	9:S7:89:HIS:O	2.10	0.51
14:C2:139:HIS:ND1	14:C2:139:HIS:O	2.43	0.51
19:C7:53:TYR:CZ	19:C7:57:LEU:HD21	2.45	0.51
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.90	0.51
36:1:1069:C:H2'	36:1:1070:U:C6	2.45	0.51
36:1:1098:A:O2'	57:N1:132:PRO:HD3	2.10	0.51
36:1:1908:A:H8	36:1:1908:A:O5'	1.92	0.51
36:1:2748:A:N3	42:L5:36:LEU:HD23	2.25	0.51
45:L8:137:ASN:HB3	51:M5:2:GLY:HA2	1.92	0.51
47:M0:48:LEU:HD11	47:M0:145:LYS:HG3	1.90	0.51
53:M7:87:SER:O	53:M7:90:PHE:N	2.40	0.51
57:N1:65:TYR:CE2	57:N1:88:ARG:HB2	2.46	0.51
58:N2:49:ASN:O	58:N2:51:GLY:N	2.36	0.51
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.10	0.51
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.92	0.51
1:6:447:U:C4	1:6:448:C:C4	2.98	0.51
1:6:639:U:H1'	1:6:640:U:C5	2.46	0.51
1:6:804:A:H2'	1:6:805:U:C6	2.45	0.51
1:6:920:U:H2'	1:6:921:U:O4'	2.09	0.51
1:6:995:A:H2'	1:6:996:U:O4'	2.10	0.51
1:6:1097:U:O3'	4:s2:159:THR:HG21	2.09	0.51
1:6:1317:C:H2'	1:6:1318:G:O4'	2.10	0.51
1:6:1498:G:H5''	21:c9:72:GLY:HA3	1.92	0.51
10:s8:62:THR:HB	10:s8:75:LYS:HE2	1.92	0.51
11:s9:47:PHE:CE1	11:s9:51:LYS:HD3	2.45	0.51
15:c3:64:ARG:HG2	15:c3:64:ARG:HH11	1.75	0.51
36:5:1688:U:H2'	36:5:1689:U:C6	2.46	0.51
36:5:2404:A:H2'	36:5:2405:C:C5'	2.40	0.51
37:7:37:G:H2'	37:7:38:U:H5''	1.92	0.51
86:7:220:OHX:N1	86:7:228:OHX:N5	2.58	0.51
46:l9:156:GLN:HG3	46:l9:160:ASP:OD2	2.10	0.51
52:m6:158:ALA:O	52:m6:162:VAL:HG23	2.10	0.51
54:m8:60:PRO:HG2	54:m8:142:GLY:HA3	1.92	0.51
61:n5:28:THR:OG1	61:n5:29:SER:N	2.42	0.51
78:q2:12:CYS:HB3	78:q2:17:CYS:HB3	1.93	0.51
1:2:950:C:H2'	1:2:951:A:C8	2.45	0.51
1:2:1125:A:C5	1:2:1126:G:H1'	2.44	0.51
1:2:1165:G:O6	1:2:1166:A:N6	2.43	0.51
1:2:1235:C:H2'	33:E1:138:ARG:HH21	1.75	0.51
1:2:1381:U:H1'	1:2:1516:A:N6	2.25	0.51
2:S0:157:ASP:OD2	23:D1:65:SER:OG	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:63:GLY:O	5:S3:67:ASN:HB2	2.09	0.51
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.09	0.51
33:E1:91:ILE:HG12	33:E1:92:LYS:H	1.74	0.51
36:1:1941:C:OP2	55:M9:74:ARG:HG2	2.10	0.51
36:1:3113:A:OP1	46:L9:73:SER:OG	2.27	0.51
41:L4:353:ALA:O	41:L4:357:GLU:HG3	2.10	0.51
44:L7:237:ASN:O	44:L7:241:LYS:HB2	2.10	0.51
45:L8:53:PRO:HD2	45:L8:56:VAL:HG21	1.90	0.51
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.22	0.51
48:M1:16:LYS:HE3	48:M1:130:VAL:HG11	1.91	0.51
48:M1:34:SER:HA	48:M1:67:VAL:HG21	1.91	0.51
56:N0:77:VAL:HG11	56:N0:106:LEU:HD22	1.92	0.51
68:O2:123:LYS:O	68:O2:125:ARG:N	2.43	0.51
1:6:1244:A:O2'	1:6:1245:G:O5'	2.18	0.51
1:6:1381:U:OP1	86:6:2178:OHX:N6	2.44	0.51
2:s0:55:GLU:HG2	23:d1:79:LEU:HD23	1.92	0.51
13:c1:33:ARG:HH22	13:c1:52:SER:HA	1.76	0.51
18:c6:47:LYS:NZ	18:c6:114:ARG:HD3	2.25	0.51
36:5:155:G:H1'	72:o6:26:ILE:CD1	2.40	0.51
36:5:247:C:N3	36:5:248:U:H1'	2.25	0.51
36:5:437:G:H22	36:5:622:A:H61	1.58	0.51
36:5:1317:A:OP1	86:5:4092:OHX:N1	2.44	0.51
36:5:3375:A:OP2	86:5:3951:OHX:N3	2.43	0.51
86:5:4014:OHX:N3	86:5:4212:OHX:N4	2.58	0.51
39:l2:224:THR:HA	39:l2:237:LEU:O	2.10	0.51
40:l3:59:ASP:OD1	40:l3:71:GLU:HG2	2.10	0.51
42:l5:98:ALA:O	42:l5:162:ALA:HA	2.10	0.51
46:l9:91:ARG:HH21	46:l9:140:VAL:HG12	1.74	0.51
50:m4:99:TRP:CD1	50:m4:103:ILE:HD13	2.45	0.51
52:m6:182:ASN:O	52:m6:185:ALA:N	2.31	0.51
53:m7:111:LYS:HB2	53:m7:152:GLU:HG2	1.92	0.51
56:n0:155:ARG:HD3	56:n0:172:TYR:CG	2.45	0.51
61:n5:58:ASP:OD1	71:o5:25:LYS:NZ	2.43	0.51
63:n7:61:LYS:O	63:n7:65:ARG:N	2.41	0.51
63:n7:135:ARG:HB3	63:n7:135:ARG:NH2	2.24	0.51
69:o3:14:LEU:HD21	69:o3:31:LYS:HB3	1.93	0.51
81:p0:69:ASP:HB2	81:p0:70:LEU:HD23	1.93	0.51
1:2:246:G:C2	13:C1:40:LEU:HD22	2.46	0.51
1:2:323:A:OP2	10:S8:10:LYS:HA	2.11	0.51
1:2:352:A:H8	1:2:352:A:OP2	1.92	0.51
1:2:1291:G:H8	1:2:1291:G:O5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1601:G:C5	21:C9:89:ARG:HD2	2.45	0.51
1:2:1670:G:N7	86:2:2122:OHX:N5	2.59	0.51
13:C1:93:TYR:CG	13:C1:94:ILE:N	2.78	0.51
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.09	0.51
21:C9:28:LEU:CD1	21:C9:29:GLU:H	2.24	0.51
36:1:129:U:O4	86:1:3883:OHX:N5	2.44	0.51
36:1:162:G:H1	36:1:259:C:H42	1.59	0.51
36:1:1233:G:H22	36:1:1255:C:N4	2.07	0.51
36:1:1545:A:H2	36:1:1548:C:OP2	1.93	0.51
36:1:1760:A:N7	36:1:1761:C:N4	2.58	0.51
36:1:2316:G:C6	36:1:2317:A:C5	2.98	0.51
40:L3:375:GLU:O	40:L3:378:ALA:HB3	2.09	0.51
46:L9:1:MET:SD	56:N0:138:GLN:HG2	2.50	0.51
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.92	0.51
51:M5:36:ILE:HG21	51:M5:109:ARG:HG2	1.91	0.51
53:M7:67:ILE:HG23	53:M7:68:GLY:N	2.25	0.51
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.92	0.51
64:N8:116:GLY:HA2	64:N8:137:LYS:HZ1	1.73	0.51
67:O1:78:LYS:HB3	67:O1:79:ARG:HE	1.75	0.51
74:O8:17:ARG:HB2	74:O8:20:VAL:HG23	1.91	0.51
1:6:1102:G:OP2	25:d3:7:ARG:HD2	2.09	0.51
1:6:1796:C:OP1	28:d6:87:ARG:NH1	2.41	0.51
2:s0:172:LEU:O	2:s0:176:LEU:HG	2.11	0.51
3:s1:206:PRO:O	3:s1:207:LEU:HB2	2.10	0.51
4:s2:228:ASN:OD1	4:s2:228:ASN:N	2.43	0.51
7:s5:40:ILE:HG23	7:s5:42:LEU:HG	1.91	0.51
7:s5:149:VAL:HG12	7:s5:156:ARG:HG3	1.93	0.51
8:s6:190:GLN:HA	8:s6:190:GLN:OE1	2.10	0.51
9:s7:184:GLU:OE1	9:s7:187:SER:OG	2.28	0.51
10:s8:10:LYS:HG2	13:c1:133:LYS:HD2	1.92	0.51
36:5:336:A:OP1	62:n6:10:SER:N	2.41	0.51
36:5:629:U:H2'	36:5:630:A:C8	2.45	0.51
36:5:1208:U:O2	36:5:1208:U:H2'	2.09	0.51
36:5:1366:A:C2	36:5:1367:G:C4	2.98	0.51
36:5:1668:G:O2'	70:o4:22:VAL:HG11	2.10	0.51
36:5:2286:U:C4	36:5:2288:G:H1'	2.45	0.51
36:5:2444:C:N4	36:5:2503:G:H1	2.09	0.51
36:5:2545:C:H2'	36:5:2546:C:H5'	1.93	0.51
36:5:2712:U:H2'	36:5:2713:U:C6	2.45	0.51
37:7:46:A:OP1	42:l5:158:ARG:HB2	2.11	0.51
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:62:VAL:HA	39:l2:73:GLU:HA	1.92	0.51
42:l5:109:THR:OG1	42:l5:110:LEU:N	2.43	0.51
50:m4:13:ARG:HD2	50:m4:65:LEU:O	2.10	0.51
1:2:178:U:OP1	8:S6:191:ARG:NH2	2.44	0.51
1:2:642:G:H2'	1:2:643:G:H8	1.76	0.51
1:2:912:U:H5'	1:2:913:G:C8	2.45	0.51
1:2:1211:A:H61	1:2:1452:U:H3	1.57	0.51
1:2:1483:A:H61	1:2:1591:C:H1'	1.74	0.51
86:2:2043:OHX:N1	86:2:2098:OHX:N3	2.59	0.51
18:C6:93:HIS:HA	18:C6:97:VAL:HG23	1.92	0.51
18:C6:113:ASP:CG	18:C6:115:THR:H	2.18	0.51
20:C8:117:LYS:C	20:C8:119:ILE:H	2.18	0.51
28:D6:75:VAL:O	28:D6:79:ILE:N	2.40	0.51
34:SR:12:THR:HG22	34:SR:311:ARG:HG2	1.91	0.51
36:1:135:C:C2	71:O5:94:LYS:HG3	2.46	0.51
36:1:1895:A:O2'	36:1:3053:G:H4'	2.10	0.51
36:1:2206:G:H8	36:1:2206:G:OP2	1.93	0.51
36:1:2221:G:N2	36:1:2223:A:H3'	2.25	0.51
36:1:3295:A:OP2	40:L3:126:LYS:N	2.42	0.51
36:1:3332:U:H2'	36:1:3333:G:O4'	2.10	0.51
46:L9:75:VAL:HG13	46:L9:78:MET:HE2	1.93	0.51
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.11	0.51
48:M1:133:ARG:HD2	48:M1:152:HIS:O	2.11	0.51
49:M3:58:VAL:HG12	49:M3:70:ARG:O	2.10	0.51
50:M4:24:LYS:HG3	50:M4:25:LYS:HD3	1.91	0.51
52:M6:46:GLU:HG2	52:M6:48:PHE:H	1.75	0.51
68:O2:82:LEU:HD11	68:O2:112:ALA:HB2	1.93	0.51
78:Q2:99:GLN:HG2	78:Q2:100:LYS:N	2.25	0.51
1:6:195:G:H2'	1:6:196:G:H5'	1.93	0.51
1:6:274:G:H2'	1:6:275:C:H6	1.75	0.51
1:6:1460:A:OP1	35:sM:68:ARG:HG2	2.11	0.51
5:s3:210:GLU:OE1	19:c7:19:ARG:HD3	2.10	0.51
6:s4:104:ASP:HB2	6:s4:108:ARG:O	2.10	0.51
9:s7:44:LYS:HD2	9:s7:63:PRO:HA	1.92	0.51
15:c3:115:LEU:O	15:c3:115:LEU:HD23	2.10	0.51
30:d8:49:ARG:HG2	30:d8:52:ASP:OD1	2.09	0.51
33:e1:141:CYS:SG	33:e1:143:LYS:HB3	2.50	0.51
36:5:437:G:H22	36:5:622:A:N6	2.08	0.51
36:5:634:C:H4'	68:o2:47:ARG:NH1	2.26	0.51
36:5:937:G:N3	36:5:963:G:H1'	2.25	0.51
36:5:1168:U:O2'	36:5:1169:A:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1874:A:OP2	55:m9:20:ARG:HD2	2.11	0.51
36:5:1908:A:H2'	36:5:1909:A:O4'	2.09	0.51
36:5:2248:C:OP2	86:5:3971:OHX:N6	2.44	0.51
36:5:2586:G:C5	45:l8:241:LYS:HB2	2.45	0.51
37:7:36:C:H5''	42:l5:155:THR:HG23	1.93	0.51
38:8:157:U:H2'	38:8:158:U:C6	2.46	0.51
42:l5:146:LEU:HD13	42:l5:148:ILE:HD13	1.92	0.51
44:l7:132:PRO:HA	44:l7:229:PHE:CE2	2.45	0.51
48:m1:10:ARG:HH21	48:m1:152:HIS:H	1.58	0.51
60:n4:50:ALA:HA	60:n4:55:PHE:CG	2.45	0.51
62:n6:120:GLN:NE2	62:n6:126:LEU:HA	2.26	0.51
67:o1:13:THR:HB	67:o1:72:ARG:HD3	1.92	0.51
67:o1:52:ALA:HB3	67:o1:55:LEU:HB2	1.92	0.51
70:o4:41:ARG:NH1	70:o4:50:ALA:HB1	2.26	0.51
1:2:67:A:N6	1:2:83:G:O2'	2.43	0.51
1:2:1157:A:H61	1:2:1621:U:H3	1.59	0.51
20:C8:17:LEU:HD12	20:C8:18:LEU:HD23	1.93	0.51
24:D2:2:THR:OG1	24:D2:3:ARG:N	2.42	0.51
36:1:426:G:H5'	68:O2:50:ILE:HG22	1.92	0.51
36:1:497:C:O3'	69:O3:86:ARG:NH2	2.44	0.51
36:1:748:U:H2'	36:1:749:C:H6	1.76	0.51
36:1:841:A:OP2	86:1:4172:OHX:N2	2.43	0.51
36:1:898:U:H2'	36:1:899:U:O4'	2.11	0.51
36:1:1114:U:OP2	86:1:3957:OHX:N4	2.44	0.51
36:1:1155:C:H2'	36:1:1156:C:C6	2.45	0.51
36:1:1162:U:H4'	68:O2:57:TYR:CD1	2.45	0.51
36:1:1233:G:H22	36:1:1255:C:H42	1.58	0.51
36:1:1317:A:O2'	36:1:1318:A:H3'	2.10	0.51
36:1:1524:A:OP1	61:N5:92:LYS:NZ	2.43	0.51
36:1:1740:U:H1'	36:1:1741:A:C2	2.42	0.51
36:1:2529:A:H2'	36:1:2530:G:O4'	2.10	0.51
37:3:68:C:OP1	42:L5:14:SER:OG	2.28	0.51
40:L3:193:ASP:O	40:L3:197:GLU:HG3	2.10	0.51
45:L8:63:LYS:O	45:L8:67:ILE:HG13	2.11	0.51
46:L9:2:LYS:HZ1	46:L9:59:ASN:HD21	1.57	0.51
49:M3:54:LEU:HD12	49:M3:75:PHE:CE2	2.45	0.51
52:M6:20:ALA:O	52:M6:24:ALA:N	2.37	0.51
56:N0:30:PHE:CD2	56:N0:103:VAL:HG21	2.45	0.51
58:N2:51:GLY:C	58:N2:52:ASN:HD22	2.18	0.51
59:N3:17:LEU:O	59:N3:52:ALA:N	2.32	0.51
73:O7:37:CYS:O	73:O7:45:ARG:N	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:717:C:O2'	1:6:718:U:OP1	2.22	0.51
4:s2:44:LEU:HD11	4:s2:243:TYR:HB2	1.92	0.51
12:c0:72:GLY:O	12:c0:75:TYR:N	2.44	0.51
14:c2:28:LEU:HD11	14:c2:89:ILE:HG21	1.92	0.51
20:c8:64:GLU:C	20:c8:66:LEU:H	2.19	0.51
23:d1:32:VAL:HB	23:d1:60:ARG:HD2	1.93	0.51
33:e1:102:VAL:O	33:e1:104:SER:N	2.43	0.51
36:5:128:G:O6	86:5:3925:OHX:N4	2.43	0.51
36:5:1014:U:H2'	36:5:1015:U:H5'	1.93	0.51
36:5:1152:G:H22	36:5:1200:A:N6	2.07	0.51
36:5:1238:C:H2'	36:5:1239:C:C6	2.45	0.51
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.37	0.51
36:5:1579:C:H2'	36:5:1580:A:H8	1.75	0.51
36:5:1803:C:H5'	70:o4:63:ALA:HB2	1.93	0.51
37:7:3:U:H2'	37:7:4:U:C6	2.46	0.51
39:l2:171:GLY:O	79:q3:68:ALA:HB2	2.09	0.51
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	1.92	0.51
44:l7:80:GLN:HG3	57:n1:136:ARG:HB2	1.93	0.51
44:l7:90:LYS:HG2	44:l7:95:ILE:HD11	1.91	0.51
48:m1:57:PHE:N	48:m1:57:PHE:CD1	2.77	0.51
54:m8:158:HIS:H	54:m8:186:VAL:HG11	1.76	0.51
59:n3:24:ASN:O	59:n3:99:ALA:HA	2.10	0.51
61:n5:73:MET:HE2	61:n5:142:ILE:HA	1.91	0.51
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.93	0.51
1:2:1065:A:N3	3:S1:146:GLN:NE2	2.56	0.51
3:S1:140:ILE:O	3:S1:210:ILE:HA	2.11	0.51
4:S2:89:GLN:OE1	4:S2:94:GLN:HG2	2.10	0.51
12:C0:6:GLU:OE1	12:C0:10:LYS:HD2	2.11	0.51
14:C2:68:GLU:C	14:C2:70:ASN:H	2.19	0.51
34:SR:185:GLN:HB3	34:SR:187:GLN:HE22	1.75	0.51
36:1:109:A:O2'	36:1:323:A:N6	2.44	0.51
36:1:139:G:H2'	36:1:140:C:O4'	2.11	0.51
36:1:860:G:H5''	79:Q3:17:ARG:HH12	1.76	0.51
36:1:955:U:H2'	36:1:956:U:C6	2.45	0.51
36:1:1445:U:H5''	36:1:1446:A:OP2	2.11	0.51
36:1:2558:U:O2'	36:1:2559:U:H5'	2.10	0.51
36:1:3027:A:H2'	36:1:3028:G:O4'	2.10	0.51
39:L2:117:GLU:OE1	39:L2:163:ARG:NH2	2.40	0.51
45:L8:45:ASN:ND2	45:L8:47:SER:H	2.07	0.51
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.46	0.51
51:M5:106:VAL:O	51:M5:109:ARG:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:10:ASP:HA	52:M6:36:VAL:HG23	1.92	0.51
52:M6:62:THR:HB	52:M6:65:ASN:O	2.10	0.51
52:M6:73:PHE:HB3	52:M6:78:ARG:HG2	1.92	0.51
54:M8:16:ARG:HH12	54:M8:55:SER:HB3	1.73	0.51
62:N6:37:LYS:HG2	62:N6:38:GLU:H	1.74	0.51
68:O2:123:LYS:HA	68:O2:126:LEU:HG	1.91	0.51
69:O3:26:ASN:O	69:O3:84:THR:HG22	2.11	0.51
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.11	0.51
1:6:509:G:H2'	1:6:510:G:O4'	2.10	0.51
1:6:938:G:N7	86:6:2105:OHX:N3	2.59	0.51
1:6:982:U:O3'	79:q3:24:ARG:NH2	2.44	0.51
1:6:1603:U:H2'	1:6:1604:U:H6	1.74	0.51
86:6:2120:OHX:N4	86:6:2171:OHX:N3	2.59	0.51
10:s8:12:SER:HB3	10:s8:16:ALA:HB3	1.92	0.51
10:s8:31:ARG:HH21	10:s8:48:THR:HG22	1.76	0.51
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.36	0.51
23:d1:85:TYR:CD1	29:d7:6:ASP:HB2	2.46	0.51
34:sR:135:THR:HG23	34:sR:139:GLN:O	2.11	0.51
36:5:345:G:H1'	38:8:24:G:H22	1.75	0.51
36:5:498:A:O2'	36:5:3273:A:N1	2.29	0.51
36:5:658:G:H21	41:l4:93:MET:HB2	1.76	0.51
36:5:754:G:H2'	36:5:755:A:H8	1.76	0.51
36:5:1316:C:C5	52:m6:130:LYS:HA	2.45	0.51
36:5:1471:U:H2'	36:5:1472:U:C6	2.44	0.51
36:5:2359:C:H2'	36:5:2360:C:H6	1.76	0.51
36:5:3149:G:H4'	40:l3:130:PHE:CE1	2.45	0.51
42:l5:211:LEU:O	42:l5:214:ASP:N	2.33	0.51
47:m0:177:ASP:OD2	47:m0:177:ASP:N	2.26	0.51
48:m1:57:PHE:N	48:m1:57:PHE:HD1	2.08	0.51
52:m6:141:LEU:O	52:m6:144:SER:HB3	2.11	0.51
62:n6:52:ARG:HG2	62:n6:53:ASP:N	2.26	0.51
68:o2:50:ILE:O	68:o2:50:ILE:HG13	2.09	0.51
73:o7:67:LEU:C	73:o7:69:HIS:H	2.17	0.51
78:q2:47:GLN:NE2	78:q2:53:GLN:HA	2.26	0.51
79:q3:73:THR:HB	79:q3:76:ALA:H	1.75	0.51
1:2:285:G:H2'	1:2:286:C:C6	2.46	0.51
1:2:1076:A:H2'	1:2:1077:C:C6	2.46	0.51
1:2:1565:C:OP1	20:C8:41:ARG:HG3	2.10	0.51
1:2:1575:G:H2'	1:2:1576:A:C8	2.46	0.51
1:2:1611:A:O2'	7:S5:95:ASN:O	2.26	0.51
1:2:1643:U:H2'	1:2:1644:C:O4'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:6:THR:C	2:S0:8:ASP:H	2.18	0.51
2:S0:140:ASN:ND2	23:D1:29:HIS:HA	2.26	0.51
3:S1:170:GLU:O	3:S1:174:LYS:HG3	2.11	0.51
25:D3:52:ILE:O	25:D3:74:VAL:HA	2.10	0.51
36:1:607:A:H4'	36:1:608:A:OP2	2.09	0.51
36:1:1949:G:OP1	55:M9:104:ARG:NH1	2.43	0.51
36:1:2555:G:N3	70:O4:92:ALA:HA	2.26	0.51
36:1:3087:A:OP1	86:1:4178:OHX:N5	2.44	0.51
86:1:3965:OHX:N3	86:1:4153:OHX:N4	2.59	0.51
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.76	0.51
45:L8:204:ARG:HB3	45:L8:206:GLU:HG3	1.92	0.51
46:L9:20:ILE:HG23	46:L9:25:VAL:HG13	1.93	0.51
53:M7:41:LEU:HD22	53:M7:41:LEU:O	2.11	0.51
55:M9:9:ARG:HH11	55:M9:9:ARG:HG3	1.76	0.51
55:M9:105:LEU:HD11	55:M9:139:VAL:HG23	1.93	0.51
62:N6:36:SER:OG	62:N6:38:GLU:HB3	2.11	0.51
65:N9:18:ARG:HB3	65:N9:18:ARG:CZ	2.41	0.51
70:O4:46:ASP:HB3	70:O4:84:CYS:SG	2.50	0.51
73:O7:64:MET:O	73:O7:68:LYS:HG3	2.11	0.51
1:6:886:U:H2'	1:6:887:A:C8	2.43	0.51
1:6:1180:C:H2'	1:6:1181:U:O4'	2.10	0.51
1:6:1274:C:H4'	1:6:1275:A:O5'	2.10	0.51
1:6:1491:U:H5'	1:6:1492:A:OP1	2.11	0.51
1:6:1647:U:H2'	1:6:1648:A:C8	2.44	0.51
5:s3:194:LYS:O	5:s3:196:ARG:N	2.43	0.51
6:s4:131:LEU:HD13	6:s4:135:GLY:HA2	1.93	0.51
11:s9:77:ILE:HG23	11:s9:86:LEU:HD23	1.93	0.51
16:c4:111:ARG:HA	28:d6:56:ALA:O	2.10	0.51
17:c5:110:GLU:HG2	20:c8:119:ILE:HD13	1.92	0.51
26:d4:20:ARG:HD3	26:d4:76:TYR:CE2	2.46	0.51
36:5:172:G:H2'	36:5:172:G:N3	2.26	0.51
36:5:549:U:H2'	36:5:550:A:C8	2.46	0.51
36:5:942:U:N3	64:n8:16:SER:HA	2.25	0.51
36:5:982:C:H42	36:5:1101:G:H1	1.58	0.51
36:5:2407:C:H1'	36:5:2818:U:O2	2.11	0.51
36:5:2407:C:H1'	36:5:2818:U:C2	2.45	0.51
36:5:2992:U:H2'	36:5:2993:G:O4'	2.11	0.51
38:8:58:G:O6	73:o7:63:ARG:NH2	2.42	0.51
40:l3:152:LYS:HG3	40:l3:192:VAL:HG11	1.92	0.51
40:l3:205:VAL:C	40:l3:207:SER:H	2.18	0.51
41:l4:300:ARG:O	41:l4:302:ALA:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:60:ARG:HB2	48:m1:60:ARG:HH21	1.76	0.51
55:m9:39:ASN:O	55:m9:43:LYS:HG2	2.11	0.51
59:n3:120:LYS:H	59:n3:137:VAL:HG22	1.76	0.51
60:n4:82:ILE:O	60:n4:83:THR:OG1	2.24	0.51
62:n6:37:LYS:CD	62:n6:37:LYS:H	2.24	0.51
64:n8:47:LYS:O	64:n8:49:HIS:N	2.39	0.51
68:o2:109:LEU:HD22	68:o2:119:VAL:HG21	1.91	0.51
72:o6:52:PRO:O	72:o6:55:ARG:HB2	2.10	0.51
1:2:45:U:O2'	1:2:46:A:H2'	2.11	0.51
1:2:623:A:OP2	86:2:2157:OHX:N4	2.44	0.51
3:S1:32:ILE:HB	3:S1:44:GLY:H	1.74	0.51
3:S1:62:LYS:HD2	3:S1:91:VAL:HG11	1.92	0.51
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	1.93	0.51
3:S1:175:GLU:O	3:S1:187:LYS:NZ	2.43	0.51
8:S6:25:ARG:HG3	8:S6:28:PHE:HD1	1.76	0.51
15:C3:105:ASN:ND2	15:C3:105:ASN:H	2.08	0.51
18:C6:47:LYS:HE2	18:C6:114:ARG:CZ	2.41	0.51
22:D0:24:ILE:O	22:D0:90:TYR:HA	2.11	0.51
36:1:535:G:C6	36:1:555:U:N3	2.79	0.51
36:1:2534:G:N2	36:1:2545:C:N3	2.45	0.51
36:1:2539:C:H5'	36:1:2541:U:O4	2.10	0.51
36:1:3259:U:H5'	36:1:3259:U:C6	2.41	0.51
39:L2:227:ARG:HG2	39:L2:239:ALA:CB	2.38	0.51
42:L5:198:TYR:CE1	42:L5:203:HIS:CD2	2.99	0.51
45:L8:101:THR:N	45:L8:104:GLU:OE2	2.43	0.51
50:M4:25:LYS:HD3	50:M4:62:GLN:HB3	1.91	0.51
57:N1:109:VAL:O	57:N1:112:ASN:N	2.44	0.51
58:N2:59:ASP:N	58:N2:62:VAL:O	2.40	0.51
63:N7:3:LYS:HE3	66:O0:36:GLN:HA	1.92	0.51
63:N7:9:LYS:HD2	63:N7:83:THR:O	2.10	0.51
68:O2:99:ASN:OD1	68:O2:99:ASN:N	2.43	0.51
1:6:643:G:H1	1:6:691:C:H42	1.59	0.51
1:6:737:A:H2'	1:6:738:G:H8	1.75	0.51
1:6:1124:A:H2'	1:6:1125:A:C8	2.46	0.51
1:6:1333:C:O2	1:6:1419:G:C2	2.64	0.51
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.35	0.51
13:c1:14:GLN:HB3	13:c1:54:ILE:HG13	1.92	0.51
18:c6:120:ASP:OD1	18:c6:122:ARG:HG3	2.11	0.51
29:d7:64:CYS:HB3	29:d7:73:LEU:HD12	1.92	0.51
36:5:637:C:C2	36:5:638:C:C5	2.98	0.51
36:5:945:C:H2'	36:5:946:U:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1716:U:O2'	36:5:1717:U:H4'	2.11	0.51
36:5:1952:G:O6	36:5:2094:C:N4	2.44	0.51
36:5:2694:A:C6	36:5:2695:A:C6	2.99	0.51
36:5:2947:G:OP2	36:5:2947:G:H4'	2.09	0.51
40:l3:3:HIS:HD1	40:l3:3:HIS:C	2.18	0.51
40:l3:123:TYR:HE2	40:l3:124:LYS:HZ2	1.59	0.51
42:l5:23:ARG:O	42:l5:23:ARG:HD2	2.10	0.51
50:m4:99:TRP:HE1	50:m4:103:ILE:HD13	1.75	0.51
67:o1:54:GLU:HA	67:o1:57:GLN:OE1	2.10	0.51
81:p0:25:LEU:HD21	81:p0:76:LEU:HD11	1.91	0.51
1:2:792:U:H2'	1:2:793:A:H5'	1.91	0.51
1:2:1234:A:O2'	1:2:1235:C:O5'	2.28	0.51
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.92	0.51
20:C8:42:TYR:HA	20:C8:85:PHE:HE1	1.75	0.51
22:D0:25:THR:HG23	22:D0:88:LYS:HD3	1.93	0.51
34:SR:112:SER:OG	34:SR:153:GLN:HA	2.11	0.51
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.26	0.51
36:1:1240:A:N6	36:1:1244:A:H5''	2.16	0.51
36:1:1573:G:H2'	36:1:1573:G:N3	2.26	0.51
36:1:2526:C:O2'	45:L8:241:LYS:NZ	2.41	0.51
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.92	0.51
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.51	0.51
41:L4:182:LEU:O	41:L4:184:SER:N	2.42	0.51
44:L7:92:ILE:HD12	44:L7:92:ILE:O	2.11	0.51
44:L7:214:TRP:CD2	44:L7:219:LYS:HD2	2.46	0.51
45:L8:91:PHE:HE1	45:L8:185:ARG:HD2	1.75	0.51
47:M0:97:LEU:O	47:M0:123:HIS:N	2.42	0.51
52:M6:147:TRP:CD1	52:M6:148:LYS:H	2.29	0.51
59:N3:33:ASN:ND2	59:N3:64:LYS:H	2.09	0.51
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	1.93	0.51
1:6:956:C:O5'	15:c3:12:SER:HB3	2.11	0.51
7:s5:61:TYR:OH	30:d8:52:ASP:OD1	2.28	0.51
10:s8:69:SER:OG	10:s8:185:GLU:OE2	2.24	0.51
34:sR:79:TYR:HE1	34:sR:100:TYR:HE1	1.57	0.51
36:5:1168:U:H1'	44:l7:209:ASN:HD22	1.76	0.51
36:5:1521:G:C2	36:5:1522:U:H5	2.29	0.51
36:5:2317:A:OP2	86:5:4182:OHX:N4	2.43	0.51
36:5:2400:G:OP1	86:5:4105:OHX:N1	2.44	0.51
36:5:3296:A:H2'	36:5:3297:U:H6	1.76	0.51
38:8:113:U:HO2'	38:8:114:G:P	2.31	0.51
40:l3:81:THR:HG23	40:l3:81:THR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:77:THR:O	47:m0:81:GLY:N	2.44	0.51
52:m6:189:ASP:O	52:m6:193:GLN:HG3	2.11	0.51
54:m8:53:PHE:N	54:m8:53:PHE:CD1	2.79	0.51
56:n0:138:GLN:C	56:n0:140:VAL:H	2.17	0.51
70:o4:25:THR:OG1	70:o4:27:GLY:N	2.36	0.51
81:p0:67:LEU:O	81:p0:71:PRO:HB3	2.10	0.51
1:2:396:G:H22	1:2:399:A:C5'	2.24	0.51
1:2:861:U:O3'	15:C3:20:ARG:NH2	2.42	0.51
1:2:1428:G:H5'	1:2:1428:G:H8	1.76	0.51
9:S7:35:LYS:HG2	9:S7:36:ALA:H	1.75	0.51
22:D0:104:THR:HG22	22:D0:116:VAL:HG21	1.93	0.51
24:D2:22:LYS:HG3	29:D7:3:LEU:HA	1.93	0.51
34:SR:49:GLY:N	34:SR:54:PHE:O	2.43	0.51
34:SR:264:SER:HB3	34:SR:269:TYR:CE1	2.46	0.51
36:1:1075:A:C5	65:N9:45:HIS:CD2	2.99	0.51
36:1:1712:G:N2	36:1:1731:A:OP2	2.35	0.51
36:1:1752:A:OP2	86:1:4042:OHX:N3	2.43	0.51
36:1:2294:U:OP1	59:N3:70:ARG:NH2	2.42	0.51
36:1:2307:G:O2'	36:1:2310:U:OP2	2.28	0.51
36:1:3199:G:C2	36:1:3200:G:C8	2.99	0.51
38:4:53:A:H2'	38:4:54:A:C8	2.46	0.51
40:L3:153:LYS:HD3	40:L3:154:TYR:CZ	2.45	0.51
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	1.93	0.51
42:L5:279:LYS:HE3	42:L5:282:ARG:HD2	1.93	0.51
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.11	0.51
51:M5:11:GLN:O	51:M5:11:GLN:HG3	2.11	0.51
56:N0:14:LEU:HG	56:N0:55:SER:O	2.10	0.51
61:N5:31:THR:HB	61:N5:33:ARG:NH2	2.26	0.51
62:N6:63:LYS:HE3	62:N6:97:ILE:HD13	1.93	0.51
72:O6:90:MET:O	72:O6:93:ILE:N	2.44	0.51
1:6:1058:U:H4'	1:6:1059:U:OP1	2.09	0.51
1:6:1140:G:OP2	86:6:2071:OHX:N3	2.44	0.51
1:6:1558:U:N3	17:c5:122:THR:HB	2.25	0.51
2:s0:7:PHE:HZ	23:d1:43:GLY:HA2	1.75	0.51
7:s5:208:SER:O	7:s5:211:ILE:N	2.44	0.51
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.93	0.51
19:c7:109:LEU:O	19:c7:113:LEU:HB2	2.11	0.51
25:d3:79:ASN:CG	25:d3:81:LYS:HG3	2.37	0.51
36:5:1077:U:H2'	36:5:1078:U:H6	1.76	0.51
36:5:1176:C:H2'	36:5:1177:G:N2	2.26	0.51
36:5:1597:C:H42	36:5:1610:G:H1	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2768:U:H2'	36:5:2769:A:H8	1.76	0.51
36:5:2942:C:O2	86:5:4104:OHX:N2	2.44	0.51
36:5:3178:A:C2	52:m6:115:LYS:HG2	2.46	0.51
36:5:3304:U:HO2'	40:l3:334:ARG:HH21	1.56	0.51
38:8:79:A:H2'	38:8:80:A:O4'	2.11	0.51
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.11	0.51
42:l5:269:SER:OG	42:l5:270:LYS:N	2.43	0.51
44:l7:157:ASN:O	44:l7:159:GLN:HG2	2.11	0.51
48:m1:16:LYS:HG3	48:m1:130:VAL:HG13	1.92	0.51
61:n5:100:LYS:HE3	61:n5:106:ASP:OD2	2.10	0.51
1:2:74:U:H1'	1:2:75:U:H5''	1.92	0.50
10:S8:10:LYS:HG2	13:C1:133:LYS:HE3	1.93	0.50
19:C7:6:THR:HG23	19:C7:9:VAL:HG23	1.93	0.50
22:D0:37:VAL:O	22:D0:41:ILE:HD13	2.11	0.50
34:SR:143:THR:HG22	34:SR:145:LEU:HD21	1.93	0.50
36:1:181:U:O3'	73:O7:75:LYS:HD3	2.10	0.50
36:1:224:C:H2'	36:1:225:C:H6	1.76	0.50
36:1:345:G:OP1	36:1:1429:G:N2	2.42	0.50
36:1:1015:U:O2	36:1:1017:C:O2'	2.24	0.50
36:1:1236:G:N2	36:1:1272:C:OP1	2.40	0.50
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.44	0.50
36:1:1586:G:OP1	86:1:3935:OHX:N5	2.44	0.50
36:1:2503:G:H1'	36:1:2504:U:C5	2.46	0.50
36:1:3174:A:C6	36:1:3175:U:N3	2.79	0.50
36:1:3206:C:H5''	36:1:3207:U:O5'	2.11	0.50
36:1:3348:G:H1	36:1:3357:U:H3	1.58	0.50
41:L4:138:ARG:O	41:L4:138:ARG:NH1	2.44	0.50
41:L4:327:LEU:HD21	44:L7:164:SER:HA	1.92	0.50
43:L6:40:LEU:HD13	43:L6:84:VAL:HG11	1.93	0.50
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	1.93	0.50
47:M0:42:THR:HG23	47:M0:45:GLU:H	1.76	0.50
51:M5:191:TRP:O	51:M5:194:GLN:N	2.44	0.50
56:N0:68:HIS:O	56:N0:73:LYS:NZ	2.41	0.50
59:N3:36:ILE:HG23	59:N3:58:VAL:HG21	1.92	0.50
79:Q3:33:GLN:HG2	79:Q3:34:HIS:N	2.26	0.50
1:6:425:A:H8	1:6:425:A:H5'	1.76	0.50
1:6:763:G:C6	1:6:764:U:C4	2.99	0.50
7:s5:51:VAL:O	7:s5:65:ARG:NH1	2.26	0.50
15:c3:94:LYS:HG2	15:c3:118:ILE:HD13	1.91	0.50
21:c9:135:ILE:HA	21:c9:138:GLN:HG3	1.93	0.50
36:5:2341:A:OP1	40:l3:247:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2936:A:H2'	36:5:2937:G:C8	2.47	0.50
41:14:361:HIS:CD2	41:14:362:ASP:HB2	2.46	0.50
43:l6:40:LEU:HB3	43:l6:84:VAL:CG1	2.41	0.50
46:l9:91:ARG:NH2	46:l9:140:VAL:HG12	2.27	0.50
50:m4:14:LEU:H	50:m4:19:ARG:NH1	2.09	0.50
50:m4:22:LEU:HB3	50:m4:64:VAL:HG13	1.93	0.50
50:m4:99:TRP:NE1	50:m4:103:ILE:HD13	2.25	0.50
57:n1:14:MET:SD	57:n1:58:GLN:HG2	2.51	0.50
1:2:1335:U:P	22:D0:85:ARG:HH12	2.34	0.50
1:2:1748:G:O6	86:2:2104:OHX:N4	2.44	0.50
16:C4:127:ARG:HG3	28:D6:22:ARG:HH22	1.77	0.50
36:1:135:C:N3	71:O5:94:LYS:HG3	2.26	0.50
36:1:593:C:C4	36:1:594:U:C5	2.99	0.50
36:1:703:G:C6	36:1:704:U:C4	3.00	0.50
36:1:1313:G:OP1	52:M6:82:LYS:HD3	2.11	0.50
37:3:76:A:OP2	86:3:216:OHX:N5	2.44	0.50
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.93	0.50
40:L3:43:LEU:HB2	40:L3:208:VAL:HG11	1.93	0.50
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.92	0.50
43:L6:172:HIS:CD2	43:L6:173:MET:HG2	2.46	0.50
44:L7:25:GLN:HA	44:L7:29:GLU:H	1.76	0.50
44:L7:80:GLN:HB2	57:N1:135:PRO:HB2	1.92	0.50
49:M3:110:ASP:HA	49:M3:113:VAL:HG23	1.92	0.50
51:M5:28:TRP:O	51:M5:32:GLN:HG2	2.10	0.50
51:M5:140:LYS:O	51:M5:142:ILE:N	2.45	0.50
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.43	0.50
55:M9:127:SER:C	55:M9:129:GLY:H	2.17	0.50
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.11	0.50
62:N6:35:LEU:HA	62:N6:106:ILE:HB	1.93	0.50
73:O7:17:THR:HG22	73:O7:18:LEU:H	1.76	0.50
1:6:12:U:H1'	1:6:1300:A:N3	2.27	0.50
1:6:896:U:H5''	3:s1:23:PRO:HG2	1.93	0.50
1:6:1333:C:O2	1:6:1419:G:N2	2.45	0.50
1:6:1427:A:O2'	1:6:1428:G:OP1	2.24	0.50
1:6:1733:C:H2'	1:6:1734:U:C6	2.47	0.50
4:s2:177:GLY:C	4:s2:195:ASP:HA	2.37	0.50
5:s3:202:LEU:O	5:s3:204:ASP:N	2.42	0.50
6:s4:22:LYS:O	6:s4:23:LEU:HD13	2.12	0.50
31:d9:22:ARG:HH21	31:d9:37:ASN:HD22	1.57	0.50
34:sR:5:GLU:OE1	34:sR:249:ARG:NE	2.43	0.50
34:sR:157:VAL:HB	34:sR:168:THR:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:sM:31:SER:OG	36:5:2667:A:OP1	2.22	0.50
36:5:65:A:C4	36:5:110:G:N7	2.79	0.50
36:5:1602:A:H2'	36:5:1603:A:C8	2.47	0.50
36:5:1700:G:H1	36:5:1745:C:N4	2.09	0.50
36:5:1792:C:H5''	36:5:1793:C:P	2.51	0.50
36:5:2243:A:H3'	39:12:244:GLY:HA2	1.92	0.50
36:5:3049:A:C2	40:13:75:ALA:HB2	2.47	0.50
41:14:328:ASN:OD1	41:14:330:TYR:HB3	2.12	0.50
43:16:64:LEU:O	43:16:65:ILE:HD13	2.11	0.50
44:17:186:HIS:CE1	44:17:190:THR:HG21	2.46	0.50
50:m4:48:GLY:HA3	50:m4:53:VAL:HG13	1.94	0.50
52:m6:72:HIS:O	52:m6:74:ARG:HD3	2.11	0.50
53:m7:48:LEU:O	53:m7:52:LEU:HD22	2.12	0.50
54:m8:115:VAL:O	54:m8:118:GLY:N	2.43	0.50
65:n9:40:ARG:O	65:n9:41:ARG:C	2.54	0.50
66:o0:95:ALA:HB2	66:o0:101:LEU:HD21	1.93	0.50
68:o2:105:ARG:O	68:o2:109:LEU:HB2	2.11	0.50
79:q3:17:ARG:HB3	79:q3:18:TYR:CD1	2.46	0.50
1:2:395:U:O2'	8:S6:89:ASP:HB3	2.11	0.50
1:2:1474:G:H2'	1:2:1475:A:C8	2.46	0.50
1:2:1537:C:O2'	1:2:1540:G:O6	2.25	0.50
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.11	0.50
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.41	0.50
8:S6:22:HIS:CD2	40:L3:300:ARG:HH22	2.30	0.50
13:C1:75:VAL:CG1	13:C1:119:VAL:HA	2.41	0.50
18:C6:38:LEU:O	18:C6:40:GLU:N	2.45	0.50
36:1:529:A:N6	36:1:563:U:H3	2.06	0.50
36:1:945:C:H2'	36:1:946:U:C6	2.46	0.50
36:1:2146:C:O2'	36:1:2147:A:H5'	2.11	0.50
36:1:2278:C:C2	36:1:2307:G:N2	2.79	0.50
36:1:2422:C:O5'	78:Q2:52:GLY:HA2	2.10	0.50
36:1:2592:G:H4'	36:1:2594:C:C2	2.47	0.50
36:1:3134:A:OP1	86:1:3894:OHX:N4	2.44	0.50
40:L3:77:THR:OG1	40:L3:324:VAL:HG12	2.11	0.50
40:L3:86:VAL:HB	40:L3:198:HIS:O	2.11	0.50
42:L5:61:ILE:HG12	42:L5:79:TYR:HD1	1.75	0.50
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.44	0.50
45:L8:101:THR:CG2	45:L8:104:GLU:H	2.22	0.50
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.76	0.50
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.46	0.50
70:O4:104:VAL:HA	70:O4:107:GLU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:30:LYS:HB2	74:O8:38:PHE:CE2	2.46	0.50
1:6:328:A:H2'	1:6:329:G:H8	1.76	0.50
1:6:990:C:H2'	1:6:991:G:O4'	2.12	0.50
1:6:1188:G:O2'	1:6:1430:U:OP1	2.28	0.50
1:6:1534:G:OP2	27:d5:74:SER:OG	2.19	0.50
1:6:1699:G:H22	1:6:1701:A:H3'	1.76	0.50
86:6:2117:OHX:N3	59:n3:133:SER:O	2.44	0.50
6:s4:9:LEU:CB	6:s4:30:ARG:HB2	2.42	0.50
6:s4:159:THR:HB	6:s4:227:VAL:HG23	1.92	0.50
6:s4:181:VAL:HG11	6:s4:225:VAL:HG13	1.94	0.50
9:s7:61:PHE:HE1	9:s7:93:LEU:HD12	1.76	0.50
9:s7:63:PRO:O	9:s7:64:VAL:HB	2.12	0.50
9:s7:126:LEU:HB2	9:s7:173:TYR:CE2	2.43	0.50
10:s8:44:HIS:O	10:s8:56:ARG:N	2.45	0.50
14:c2:67:THR:C	14:c2:69:ALA:H	2.19	0.50
15:c3:54:LEU:HB3	15:c3:60:VAL:CG1	2.40	0.50
24:d2:102:VAL:O	24:d2:113:HIS:HB3	2.11	0.50
34:sR:289:ALA:HB2	34:sR:305:TYR:CE2	2.47	0.50
36:5:675:C:O2'	36:5:679:U:OP1	2.29	0.50
36:5:787:G:H2'	36:5:788:C:C6	2.46	0.50
36:5:1195:A:H1'	36:5:1319:G:H4'	1.92	0.50
36:5:2427:U:H2'	36:5:2428:U:C6	2.47	0.50
36:5:3055:U:H1'	36:5:3057:U:OP2	2.12	0.50
40:l3:65:SER:C	40:l3:67:PHE:H	2.19	0.50
44:l7:191:VAL:HG12	44:l7:192:GLY:H	1.76	0.50
44:l7:224:ILE:HG23	56:n0:36:ILE:HG12	1.93	0.50
49:m3:46:ILE:HG12	49:m3:49:ARG:CZ	2.41	0.50
51:m5:6:TYR:CD2	72:o6:40:VAL:HG13	2.46	0.50
52:m6:24:ALA:HB1	52:m6:88:VAL:HG23	1.92	0.50
54:m8:170:ARG:O	54:m8:171:LYS:HB2	2.11	0.50
70:o4:66:SER:O	70:o4:70:LYS:HE3	2.10	0.50
1:2:936:G:N7	28:D6:15:ARG:NH1	2.49	0.50
2:S0:197:ILE:HG21	2:S0:201:LEU:HD22	1.93	0.50
11:S9:161:THR:O	11:S9:162:SER:OG	2.29	0.50
13:C1:111:VAL:HB	13:C1:139:VAL:HG21	1.92	0.50
36:1:123:A:C6	36:1:150:A:C5	3.00	0.50
36:1:1904:C:N4	36:1:1905:G:O6	2.44	0.50
86:1:3998:OHX:N3	86:1:4169:OHX:N1	2.60	0.50
38:4:124:G:H3'	38:4:125:U:C5'	2.37	0.50
41:L4:5:GLN:HA	41:L4:21:PRO:HA	1.92	0.50
47:M0:188:GLY:HA3	47:M0:216:TYR:HD1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:11:ASP:OD1	48:M1:11:ASP:N	2.41	0.50
55:M9:41:ILE:O	55:M9:45:VAL:HG23	2.11	0.50
56:N0:146:LYS:HG3	56:N0:147:ASP:N	2.25	0.50
68:O2:26:HIS:O	68:O2:28:VAL:N	2.44	0.50
1:6:139:C:C4	1:6:266:A:C2	3.00	0.50
1:6:1239:U:O4	86:6:2096:OHX:N1	2.44	0.50
1:6:1649:G:N7	86:6:2109:OHX:N2	2.58	0.50
2:s0:185:ARG:HH21	23:d1:47:PRO:HD3	1.76	0.50
3:s1:59:ASP:C	3:s1:61:LEU:H	2.18	0.50
24:d2:18:GLU:HG2	24:d2:65:LEU:HG	1.92	0.50
33:e1:80:ARG:HB2	33:e1:80:ARG:HH11	1.76	0.50
36:5:68:C:O3'	51:m5:177:GLY:HA2	2.11	0.50
36:5:240:U:O2'	36:5:241:G:H8	1.94	0.50
36:5:980:A:H2'	36:5:981:U:N1	2.27	0.50
36:5:2385:G:O6	86:5:3926:OHX:N4	2.45	0.50
36:5:3257:C:H2'	36:5:3258:U:O4'	2.12	0.50
86:7:220:OHX:N1	86:7:228:OHX:N2	2.59	0.50
43:l6:64:LEU:HD22	43:l6:65:ILE:N	2.25	0.50
43:l6:65:ILE:O	43:l6:76:LEU:HA	2.11	0.50
43:l6:149:ILE:HG23	43:l6:155:LEU:HD13	1.92	0.50
45:l8:134:TYR:CG	45:l8:190:VAL:HG11	2.46	0.50
47:m0:144:ASN:O	47:m0:145:LYS:C	2.54	0.50
53:m7:29:THR:O	53:m7:32:THR:N	2.44	0.50
56:n0:12:ARG:HG3	56:n0:13:ARG:O	2.11	0.50
60:n4:82:ILE:O	60:n4:82:ILE:HG22	2.12	0.50
66:o0:23:TYR:OH	66:o0:83:LYS:HE2	2.11	0.50
72:o6:53:TYR:O	72:o6:57:LEU:N	2.45	0.50
1:2:130:C:HO2'	1:2:131:C:P	2.33	0.50
1:2:138:A:H61	1:2:266:A:H61	1.59	0.50
1:2:872:G:O6	86:2:2126:OHX:N3	2.45	0.50
7:S5:216:GLU:CD	7:S5:219:ARG:HD2	2.37	0.50
10:S8:170:SER:OG	10:S8:181:GLY:HA2	2.12	0.50
17:C5:69:GLU:OE1	86:C5:201:OHX:N4	2.44	0.50
26:D4:108:ARG:O	26:D4:111:LYS:HB3	2.12	0.50
27:D5:39:ALA:HB1	27:D5:71:ILE:C	2.37	0.50
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.76	0.50
36:1:363:G:H2'	36:1:364:G:O4'	2.12	0.50
36:1:1878:G:C2'	36:1:1879:A:H5'	2.42	0.50
36:1:2971:A:H3'	36:1:2971:A:N3	2.26	0.50
40:L3:57:VAL:HG23	40:L3:358:TRP:HE3	1.76	0.50
47:M0:46:PHE:CD1	47:M0:140:THR:HA	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:54:LEU:HD12	49:M3:75:PHE:CZ	2.47	0.50
59:N3:33:ASN:ND2	59:N3:63:LYS:H	2.10	0.50
62:N6:39:LEU:HD12	62:N6:106:ILE:HG22	1.93	0.50
64:N8:82:ILE:HB	64:N8:87:ARG:HG3	1.94	0.50
1:6:574:G:O6	25:d3:65:ASN:ND2	2.36	0.50
1:6:600:U:H1'	25:d3:47:SER:HB3	1.93	0.50
1:6:647:G:H1	1:6:687:G:H22	1.57	0.50
1:6:1092:A:O2'	1:6:1093:A:H3'	2.10	0.50
1:6:1163:A:O3'	7:s5:166:ARG:NH2	2.44	0.50
1:6:1698:G:N2	1:6:1699:G:N7	2.58	0.50
6:s4:86:PHE:CE1	6:s4:87:MET:HE2	2.46	0.50
9:s7:52:ALA:HB3	9:s7:167:GLU:OE1	2.11	0.50
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	1.93	0.50
22:d0:72:ASN:OD1	22:d0:73:GLY:N	2.44	0.50
26:d4:63:GLN:OE1	26:d4:64:PHE:N	2.41	0.50
27:d5:49:ARG:O	27:d5:53:GLU:HB2	2.12	0.50
34:sR:123:ILE:HG21	34:sR:169:ILE:HD13	1.93	0.50
34:sR:249:ARG:HH12	34:sR:315:VAL:HG21	1.77	0.50
36:5:873:C:H5''	36:5:874:U:O5'	2.12	0.50
36:5:1192:C:N4	36:5:1302:A:P	2.85	0.50
36:5:2111:G:H4'	36:5:2112:U:OP2	2.12	0.50
36:5:2991:A:N3	53:m7:69:ARG:NH2	2.59	0.50
36:5:3047:U:O2'	40:l3:53:MET:HE1	2.11	0.50
86:8:216:OHX:N2	86:8:223:OHX:N1	2.59	0.50
40:l3:65:SER:C	40:l3:67:PHE:N	2.67	0.50
50:m4:19:ARG:NH2	50:m4:69:THR:HG23	2.27	0.50
55:m9:141:HIS:O	55:m9:145:ALA:N	2.45	0.50
57:n1:53:PRO:HB3	57:n1:91:LEU:HD22	1.92	0.50
63:n7:15:ARG:HG3	63:n7:15:ARG:HH11	1.76	0.50
81:p0:42:ARG:O	81:p0:46:ARG:N	2.44	0.50
1:2:252:U:H2'	1:2:253:A:C8	2.45	0.50
1:2:462:G:N7	86:2:2143:OHX:N1	2.60	0.50
1:2:784:C:H2'	1:2:785:U:O4'	2.12	0.50
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.59	0.50
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.11	0.50
1:2:1552:U:O2'	1:2:1597:A:N3	2.42	0.50
9:S7:62:VAL:O	9:S7:95:GLU:HB3	2.11	0.50
10:S8:136:SER:HB3	10:S8:139:ALA:HB3	1.94	0.50
14:C2:62:LEU:HB3	14:C2:75:VAL:HG11	1.93	0.50
23:D1:71:ARG:HG2	23:D1:75:ASN:HD21	1.76	0.50
27:D5:84:GLU:HB2	27:D5:89:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:161:LYS:O	34:SR:161:LYS:CG	2.55	0.50
34:SR:171:SER:N	34:SR:179:LYS:O	2.44	0.50
35:SM:88:ARG:HG2	35:SM:91:THR:OG1	2.12	0.50
36:1:1162:U:H4'	68:O2:57:TYR:CE1	2.47	0.50
36:1:1511:U:H5''	36:1:1512:U:H5	1.77	0.50
36:1:1687:U:H2'	58:N2:70:LYS:HZ3	1.77	0.50
36:1:1919:G:H1'	36:1:1934:G:N2	2.27	0.50
36:1:2689:A:H2'	36:1:2689:A:N3	2.26	0.50
36:1:2748:A:O2'	42:L5:48:LYS:HE2	2.11	0.50
38:4:46:G:OP2	75:O9:15:LYS:NZ	2.40	0.50
39:L2:96:LEU:O	79:Q3:87:ARG:NH1	2.45	0.50
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.19	0.50
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.41	0.50
52:M6:33:ILE:HG22	52:M6:102:LEU:CD1	2.37	0.50
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.41	0.50
69:O3:48:ARG:HH11	69:O3:48:ARG:CG	2.24	0.50
69:O3:70:LYS:HG2	69:O3:70:LYS:O	2.09	0.50
71:O5:71:LYS:HE3	71:O5:72:GLY:N	2.27	0.50
1:6:641:G:H2'	1:6:642:G:H8	1.76	0.50
1:6:754:A:N6	1:6:793:A:H62	2.09	0.50
1:6:1079:U:H2'	1:6:1080:U:O4'	2.12	0.50
1:6:1333:C:O4'	5:s3:162:GLN:HG3	2.11	0.50
1:6:1626:U:O4	86:6:2201:OHX:N5	2.45	0.50
2:s0:202:TYR:H	2:s0:202:TYR:HD2	1.57	0.50
3:s1:48:VAL:HG11	3:s1:61:LEU:HB2	1.94	0.50
7:s5:225:ARG:NH2	30:d8:58:GLU:H	2.10	0.50
16:c4:112:ILE:H	28:d6:57:SER:HA	1.77	0.50
36:5:1068:C:OP1	57:n1:110:LYS:NZ	2.45	0.50
36:5:1323:G:C2'	36:5:1324:U:H5'	2.42	0.50
36:5:2344:U:H2'	36:5:2345:A:H8	1.76	0.50
36:5:2524:A:O2'	36:5:2525:G:OP2	2.26	0.50
36:5:2641:U:H5''	36:5:2642:A:OP1	2.12	0.50
86:5:3966:OHX:N1	86:5:4238:OHX:N5	2.60	0.50
39:l2:51:ASP:HB3	39:l2:54:ARG:HD2	1.93	0.50
39:l2:246:LEU:HD23	39:l2:248:GLY:N	2.26	0.50
41:l4:271:LYS:HB2	41:l4:274:TYR:CB	2.42	0.50
42:l5:107:ARG:HH12	42:l5:120:LYS:HA	1.77	0.50
47:m0:96:VAL:HG11	47:m0:122:PRO:HB3	1.93	0.50
47:m0:171:TRP:CE3	47:m0:178:ARG:HD2	2.46	0.50
52:m6:108:ILE:HG12	52:m6:108:ILE:O	2.10	0.50
53:m7:25:SER:O	53:m7:29:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:41:ASP:OD1	57:n1:61:THR:OG1	2.23	0.50
71:o5:93:THR:OG1	71:o5:96:GLU:HG3	2.12	0.50
73:o7:39:TYR:CD2	73:o7:40:PRO:HA	2.46	0.50
1:2:918:U:H2'	1:2:919:A:C8	2.47	0.50
2:S0:125:ASP:O	2:S0:127:ARG:N	2.45	0.50
11:S9:137:GLY:C	11:S9:139:GLN:H	2.19	0.50
15:C3:20:ARG:NH2	24:D2:56:HIS:HB3	2.26	0.50
16:C4:112:ILE:H	28:D6:57:SER:HA	1.76	0.50
16:C4:117:ASP:OD2	16:C4:119:THR:OG1	2.19	0.50
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	1.94	0.50
17:C5:53:PRO:O	17:C5:56:PHE:HB3	2.12	0.50
28:D6:36:ILE:HD12	28:D6:78:ALA:HB1	1.92	0.50
36:1:247:C:H2'	36:1:248:U:H6	1.76	0.50
36:1:534:U:O4	56:N0:144:LEU:HD23	2.12	0.50
36:1:1608:C:H5''	61:N5:111:ASN:ND2	2.27	0.50
36:1:2400:G:H5''	36:1:2401:A:OP2	2.12	0.50
36:1:3302:U:H3	36:1:3312:U:H3	1.59	0.50
86:1:3951:OHX:N4	44:L7:217:PRO:HA	2.27	0.50
42:L5:60:ILE:H	42:L5:80:SER:HB3	1.77	0.50
42:L5:177:GLU:O	42:L5:179:ARG:N	2.44	0.50
46:L9:49:ASN:O	46:L9:49:ASN:ND2	2.45	0.50
46:L9:91:ARG:HG3	46:L9:91:ARG:HH21	1.77	0.50
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.27	0.50
61:N5:96:LYS:HE3	61:N5:107:VAL:HB	1.93	0.50
66:O0:30:THR:HB	66:O0:91:SER:HB2	1.93	0.50
1:6:487:G:H3'	1:6:488:G:C5'	2.41	0.50
1:6:1395:G:H1	1:6:1403:C:H42	1.60	0.50
1:6:1514:U:H1'	5:s3:6:SER:HB2	1.93	0.50
2:s0:56:LYS:HZ2	2:s0:158:VAL:HA	1.77	0.50
2:s0:72:ASP:OD2	2:s0:72:ASP:N	2.39	0.50
4:s2:140:ARG:HB2	4:s2:222:TYR:CD1	2.47	0.50
5:s3:20:GLU:OE2	5:s3:76:ARG:NH2	2.44	0.50
5:s3:192:PRO:HB2	5:s3:201:ALA:HA	1.93	0.50
6:s4:38:LEU:O	6:s4:41:SER:OG	2.30	0.50
17:c5:89:MET:O	17:c5:107:ILE:HG13	2.11	0.50
36:5:132:C:N4	36:5:134:U:C4	2.79	0.50
36:5:1126:G:H5''	47:m0:119:TRP:HZ3	1.76	0.50
36:5:1291:A:H2'	36:5:1292:C:O4'	2.12	0.50
36:5:1824:U:O3'	74:o8:17:ARG:NH2	2.44	0.50
36:5:2444:C:H42	36:5:2503:G:H22	1.59	0.50
36:5:2909:U:O2'	36:5:3105:U:O2'	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:158:LYS:HD2	44:l7:159:GLN:H	1.77	0.50
46:l9:31:ARG:HD3	46:l9:149:ASN:OD1	2.11	0.50
46:l9:106:LYS:HG3	46:l9:107:ASP:OD1	2.11	0.50
46:l9:136:PHE:HE2	46:l9:144:ILE:HG12	1.77	0.50
53:m7:95:LEU:HD23	53:m7:148:LEU:HD11	1.94	0.50
67:o1:23:VAL:O	67:o1:28:ARG:NH1	2.44	0.50
69:o3:90:PRO:O	69:o3:92:LYS:N	2.41	0.50
1:2:484:C:N4	1:2:503:G:H22	2.10	0.50
1:2:525:A:H5''	26:D4:89:TYR:CE1	2.47	0.50
1:2:558:U:O2'	1:2:559:C:O5'	2.26	0.50
1:2:863:A:OP1	24:D2:57:ARG:NE	2.41	0.50
1:2:1335:U:H5'	22:D0:85:ARG:HH22	1.77	0.50
1:2:1789:G:H5''	1:2:1789:G:H8	1.77	0.50
3:S1:217:LEU:O	3:S1:218:LEU:HB3	2.09	0.50
5:S3:11:LEU:HD12	22:D0:86:ILE:HG12	1.94	0.50
6:S4:123:LEU:HD21	6:S4:235:TYR:HB3	1.93	0.50
10:S8:163:GLY:HA3	36:1:3354:U:H1'	1.94	0.50
12:C0:11:ILE:HD11	12:C0:42:VAL:HG22	1.94	0.50
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	1.94	0.50
17:C5:18:ARG:HD3	20:C8:90:ASN:OD1	2.12	0.50
32:E0:13:LYS:O	32:E0:16:SER:N	2.44	0.50
34:SR:13:LEU:O	34:SR:309:VAL:HG13	2.11	0.50
34:SR:101:GLN:HG2	34:SR:137:LYS:O	2.12	0.50
36:1:7:C:H2'	36:1:8:C:H6	1.76	0.50
36:1:780:A:H8	36:1:780:A:O5'	1.95	0.50
36:1:860:G:H5''	79:Q3:17:ARG:NH1	2.27	0.50
36:1:1281:G:H2'	36:1:1282:G:C8	2.44	0.50
36:1:1439:U:H2'	36:1:1440:G:H8	1.77	0.50
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.27	0.50
36:1:2371:G:O6	86:1:3864:OHX:N3	2.45	0.50
36:1:2782:U:OP1	49:M3:185:LYS:NZ	2.45	0.50
36:1:3166:C:H2'	36:1:3167:A:O4'	2.12	0.50
46:L9:105:GLU:HB2	46:L9:110:LYS:H	1.75	0.50
53:M7:53:ASP:O	86:M7:207:OHX:N3	2.44	0.50
53:M7:131:ARG:HG3	53:M7:131:ARG:HH11	1.77	0.50
57:N1:38:ASP:O	57:N1:64:VAL:HG23	2.12	0.50
57:N1:57:TYR:CD1	57:N1:89:LEU:HD21	2.46	0.50
64:N8:70:LYS:HE2	64:N8:129:PHE:CD2	2.47	0.50
78:Q2:47:GLN:HE22	78:Q2:53:GLN:HA	1.76	0.50
1:6:15:U:H2'	1:6:16:G:O4'	2.12	0.50
1:6:780:A:C2	26:d4:8:ARG:HD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1358:G:H2'	1:6:1359:C:H6	1.76	0.50
3:s1:23:PRO:O	3:s1:27:LYS:HG3	2.11	0.50
7:s5:143:ARG:HG2	30:d8:55:VAL:HB	1.93	0.50
10:s8:36:THR:HG23	10:s8:96:LEU:O	2.12	0.50
15:c3:31:GLU:OE1	15:c3:31:GLU:N	2.40	0.50
16:c4:26:THR:HG21	16:c4:97:GLY:HA3	1.94	0.50
23:d1:9:VAL:HG22	23:d1:10:GLU:H	1.76	0.50
31:d9:38:ILE:HG22	31:d9:42:CYS:HB3	1.94	0.50
36:5:150:A:H2'	36:5:151:A:H5'	1.94	0.50
36:5:414:U:H2'	36:5:415:G:C8	2.46	0.50
36:5:662:U:OP1	64:n8:8:THR:HG21	2.11	0.50
36:5:975:C:H2'	36:5:976:U:C6	2.46	0.50
36:5:1000:C:C2	36:5:1045:C:N4	2.80	0.50
36:5:1098:A:O2'	57:n1:130:ARG:O	2.23	0.50
36:5:2546:C:H2'	36:5:2547:A:H8	1.76	0.50
37:7:25:G:H2'	37:7:26:C:O4'	2.12	0.50
40:l3:159:ARG:HG2	40:l3:182:GLN:HA	1.93	0.50
48:m1:91:LEU:O	48:m1:172:LEU:N	2.44	0.50
53:m7:32:THR:HG21	53:m7:87:SER:HB3	1.94	0.50
61:n5:38:LEU:HD22	61:n5:40:LEU:HD13	1.94	0.50
79:q3:77:ALA:C	79:q3:79:VAL:H	2.20	0.50
1:2:38:C:C2'	1:2:39:A:H5'	2.42	0.50
1:2:142:G:N7	8:S6:177:ARG:NH1	2.58	0.50
1:2:436:A:H8	1:2:436:A:O5'	1.94	0.50
1:2:1274:C:H41	35:SM:95:SER:HA	1.77	0.50
1:2:1429:G:H2'	1:2:1430:U:C6	2.46	0.50
1:2:1684:U:O2	1:2:1718:G:N2	2.45	0.50
2:S0:122:ILE:HA	2:S0:144:ILE:O	2.12	0.50
4:S2:163:GLY:HA3	4:S2:209:ASN:ND2	2.27	0.50
8:S6:148:SER:O	8:S6:150:GLU:N	2.42	0.50
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.94	0.50
16:C4:13:VAL:N	16:C4:77:THR:OG1	2.42	0.50
18:C6:136:SER:O	18:C6:137:ARG:NH2	2.45	0.50
22:D0:72:ASN:ND2	22:D0:73:GLY:H	2.09	0.50
36:1:122:A:H3'	36:1:122:A:OP1	2.12	0.50
36:1:177:U:C4	36:1:178:U:C4	3.00	0.50
36:1:900:G:H2'	36:1:901:G:H8	1.77	0.50
36:1:901:G:H2'	36:1:902:G:H8	1.77	0.50
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.45	0.50
36:1:1472:U:H2'	36:1:1473:G:H8	1.77	0.50
36:1:1952:G:H5'	36:1:1953:G:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2842:U:C5	36:1:2843:U:C5	3.00	0.50
86:1:4050:OHX:N2	86:1:4160:OHX:N1	2.60	0.50
37:3:37:G:N2	37:3:41:G:O4'	2.45	0.50
39:L2:10:LYS:HA	39:L2:16:PHE:CD2	2.46	0.50
40:L3:108:GLU:HB2	40:L3:137:TYR:CE1	2.47	0.50
40:L3:159:ARG:HB3	40:L3:182:GLN:HA	1.93	0.50
44:L7:24:GLU:C	44:L7:26:VAL:H	2.19	0.50
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	1.92	0.50
47:M0:68:ALA:HB2	47:M0:158:LYS:HB2	1.94	0.50
49:M3:79:GLU:OE2	49:M3:103:ASN:ND2	2.30	0.50
49:M3:171:ARG:O	49:M3:174:ARG:HB3	2.12	0.50
51:M5:27:VAL:HB	51:M5:122:ASN:HD21	1.76	0.50
52:M6:3:VAL:HG22	52:M6:4:GLU:HG3	1.93	0.50
58:N2:20:SER:OG	58:N2:21:SER:N	2.44	0.50
64:N8:7:LYS:O	64:N8:10:LYS:N	2.37	0.50
68:O2:20:HIS:HB3	68:O2:35:GLN:OE1	2.12	0.50
1:6:30:G:H2'	1:6:31:C:C6	2.47	0.50
1:6:138:A:H62	1:6:266:A:N6	2.10	0.50
1:6:192:U:H1'	1:6:193:U:C4	2.46	0.50
2:s0:153:SER:O	2:s0:156:VAL:HG22	2.12	0.50
5:s3:175:VAL:HG13	5:s3:182:LEU:HB2	1.93	0.50
12:c0:23:ALA:CB	12:c0:64:TYR:HB2	2.42	0.50
17:c5:18:ARG:HD2	17:c5:36:LEU:O	2.11	0.50
17:c5:34:VAL:HG11	17:c5:45:PHE:CZ	2.47	0.50
19:c7:21:TYR:HE2	19:c7:61:ILE:HG21	1.77	0.50
23:d1:74:GLN:HG2	23:d1:79:LEU:CB	2.41	0.50
25:d3:14:LYS:HA	25:d3:17:VAL:HG12	1.93	0.50
31:d9:39:CYS:O	31:d9:43:PHE:N	2.43	0.50
31:d9:49:ASP:N	31:d9:49:ASP:OD1	2.44	0.50
34:sR:21:THR:HG23	34:sR:37:SER:HA	1.93	0.50
36:5:123:A:C6	36:5:150:A:C5	3.00	0.50
36:5:537:A:C2	36:5:557:A:C4	2.99	0.50
36:5:1340:G:C6	36:5:1341:U:C4	3.00	0.50
36:5:1856:C:H1'	70:o4:7:PHE:HE2	1.77	0.50
36:5:2157:G:O6	39:l2:152:SER:N	2.45	0.50
36:5:2661:G:H1	36:5:2709:C:N4	2.09	0.50
36:5:2758:A:C8	36:5:2759:U:C5	3.00	0.50
36:5:3045:G:O3'	40:l3:275:ARG:NH1	2.45	0.50
36:5:3266:G:C6	36:5:3267:A:C6	3.00	0.50
46:l9:161:LEU:HD22	46:l9:161:LEU:O	2.11	0.50
49:m3:119:TYR:HD1	49:m3:145:PHE:CZ	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:m8:133:LYS:HB2	54:m8:135:GLN:NE2	2.27	0.50
55:m9:106:LEU:HD22	55:m9:138:LEU:HD11	1.93	0.50
57:n1:108:ARG:O	57:n1:112:ASN:N	2.31	0.50
65:n9:14:ARG:NH2	65:n9:18:ARG:HD3	2.27	0.50
81:p0:25:LEU:HD12	81:p0:26:PHE:H	1.77	0.50
1:2:123:G:N2	6:S4:146:THR:HG21	2.27	0.49
1:2:477:A:OP1	32:E0:30:PRO:HA	2.12	0.49
1:2:1798:U:C5	28:D6:38:ARG:NH2	2.80	0.49
14:C2:129:GLU:HA	14:C2:133:LEU:HD22	1.94	0.49
15:C3:150:VAL:HG12	15:C3:151:ASN:OD1	2.11	0.49
20:C8:14:ILE:HA	20:C8:22:VAL:O	2.12	0.49
21:C9:33:TYR:OH	21:C9:99:SER:OG	2.29	0.49
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.94	0.49
36:1:439:C:H5'	36:1:440:A:OP2	2.12	0.49
36:1:784:A:C6	54:M8:93:ILE:HG22	2.47	0.49
36:1:1110:U:H2'	36:1:1111:U:C6	2.47	0.49
36:1:1176:C:OP1	52:M6:25:LYS:HE3	2.12	0.49
36:1:1343:A:H2'	36:1:1344:G:C8	2.47	0.49
36:1:1478:C:H2'	36:1:1479:U:H6	1.76	0.49
36:1:1521:G:C2	36:1:1522:U:H5	2.30	0.49
36:1:2687:G:P	42:L5:8:LYS:HZ1	2.33	0.49
40:L3:21:ARG:HG2	40:L3:269:GLN:HG2	1.94	0.49
41:L4:182:LEU:C	41:L4:184:SER:H	2.20	0.49
41:L4:216:VAL:HG23	41:L4:217:LYS:HG2	1.94	0.49
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	1.93	0.49
49:M3:121:SER:OG	49:M3:122:LYS:N	2.44	0.49
59:N3:40:LYS:HE2	59:N3:59:MET:HE2	1.94	0.49
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.12	0.49
73:O7:37:CYS:SG	73:O7:38:GLY:N	2.85	0.49
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CE3	2.47	0.49
79:Q3:45:LYS:O	79:Q3:45:LYS:HG3	2.12	0.49
1:6:837:G:O6	86:6:2100:OHX:N1	2.45	0.49
1:6:1467:C:H2'	1:6:1468:U:C6	2.46	0.49
1:6:1670:G:O6	86:6:2190:OHX:N4	2.44	0.49
2:s0:136:ALA:HA	2:s0:141:ILE:HD11	1.94	0.49
3:s1:226:GLY:HA2	36:5:2536:A:H4'	1.94	0.49
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.46	0.49
6:s4:180:LEU:N	6:s4:229:GLY:O	2.38	0.49
7:s5:117:THR:O	7:s5:120:ILE:N	2.45	0.49
12:c0:46:LEU:O	12:c0:50:THR:HG23	2.12	0.49
13:c1:78:THR:HG21	13:c1:118:GLN:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:22:LEU:HD23	17:c5:23:GLU:H	1.77	0.49
26:d4:129:VAL:O	26:d4:132:ARG:HB3	2.12	0.49
34:sR:232:TYR:HD2	34:sR:232:TYR:H	1.59	0.49
34:sR:248:ASN:HD21	34:sR:298:GLY:HA3	1.76	0.49
36:5:873:C:H4'	36:5:1908:A:H5'	1.94	0.49
36:5:1060:U:H2'	36:5:1061:A:H8	1.75	0.49
36:5:1068:C:H2'	36:5:1069:C:C6	2.47	0.49
36:5:1239:C:H3'	36:5:1240:A:H8	1.76	0.49
36:5:1330:A:OP1	69:o3:19:SER:HB3	2.12	0.49
36:5:1743:G:H2'	36:5:1744:G:C8	2.47	0.49
36:5:2283:G:N3	36:5:2285:C:N4	2.60	0.49
36:5:2355:G:H5'	53:m7:139:TYR:CE1	2.46	0.49
36:5:2557:A:H2	45:l8:38:GLN:HB2	1.77	0.49
36:5:3234:A:H8	36:5:3234:A:OP2	1.94	0.49
39:l2:140:ASN:OD1	39:l2:142:ASP:HB3	2.12	0.49
44:l7:134:VAL:O	44:l7:229:PHE:HA	2.12	0.49
46:l9:75:VAL:HA	46:l9:78:MET:HG3	1.94	0.49
48:m1:160:VAL:HG12	48:m1:161:SER:N	2.26	0.49
51:m5:39:ALA:HB3	51:m5:61:ILE:HG22	1.93	0.49
62:n6:58:VAL:O	62:n6:65:GLY:N	2.42	0.49
70:o4:25:THR:HG23	70:o4:29:ILE:O	2.11	0.49
71:o5:86:ARG:O	71:o5:90:ARG:NE	2.45	0.49
1:2:968:U:H5''	1:2:1033:C:O2'	2.11	0.49
1:2:1492:A:C4	1:2:1493:A:C8	3.00	0.49
1:2:1500:C:H5'	21:C9:106:GLN:NE2	2.26	0.49
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.92	0.49
3:S1:70:LEU:O	3:S1:74:GLN:HB2	2.11	0.49
3:S1:137:ILE:HG22	3:S1:215:VAL:CG2	2.42	0.49
14:C2:45:LEU:O	14:C2:49:THR:HG23	2.12	0.49
14:C2:127:GLY:HA2	35:SM:168:GLU:HA	1.93	0.49
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.92	0.49
16:C4:57:PRO:HA	16:C4:60:ALA:HB3	1.92	0.49
16:C4:106:ALA:HA	16:C4:112:ILE:HD11	1.94	0.49
17:C5:12:PHE:HD1	17:C5:13:LYS:H	1.60	0.49
19:C7:37:GLU:HG3	34:SR:150:TRP:HE1	1.77	0.49
20:C8:44:ASN:HD21	20:C8:48:LYS:HE3	1.77	0.49
24:D2:22:LYS:HZ3	29:D7:3:LEU:H	1.59	0.49
24:D2:50:PHE:HB3	24:D2:63:VAL:HG22	1.93	0.49
25:D3:49:ALA:O	25:D3:104:LEU:HB2	2.11	0.49
26:D4:23:PHE:HE2	26:D4:75:VAL:HG12	1.77	0.49
26:D4:83:LYS:HE2	26:D4:96:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:126:SER:OG	34:SR:127:ARG:N	2.42	0.49
34:SR:134:TRP:HA	34:SR:140:CYS:HA	1.94	0.49
36:1:1348:U:OP2	54:M8:38:ARG:NH2	2.45	0.49
36:1:1381:A:C2	36:1:1426:C:C2	3.00	0.49
36:1:1626:U:H2'	36:1:1627:U:C6	2.47	0.49
36:1:1682:U:O4	58:N2:90:ARG:NH1	2.45	0.49
36:1:2767:U:OP2	86:1:4129:OHX:N2	2.45	0.49
36:1:2795:U:OP1	78:Q2:62:ALA:N	2.42	0.49
36:1:3012:A:C2	36:1:3043:C:H1'	2.47	0.49
41:L4:3:ARG:NE	41:L4:22:LEU:O	2.44	0.49
41:L4:209:TYR:CE2	41:L4:212:ASP:HB2	2.48	0.49
42:L5:85:ARG:HD2	42:L5:86:TYR:CZ	2.46	0.49
44:L7:140:SER:O	44:L7:143:THR:N	2.43	0.49
46:L9:37:ASN:OD1	46:L9:39:LYS:HB2	2.12	0.49
53:M7:26:PHE:CE2	53:M7:121:GLN:HG2	2.47	0.49
55:M9:8:LYS:O	55:M9:11:ALA:HB3	2.12	0.49
55:M9:15:VAL:CG1	55:M9:52:LYS:HG3	2.42	0.49
56:N0:12:ARG:HH11	56:N0:22:PRO:HD2	1.76	0.49
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.77	0.49
66:O0:41:LEU:HD22	66:O0:66:LYS:O	2.12	0.49
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	1.94	0.49
1:6:1334:U:C4	1:6:1335:U:C4	3.00	0.49
1:6:1341:A:OP1	34:sR:63:GLY:HA2	2.12	0.49
1:6:1392:U:H2'	1:6:1393:C:C6	2.45	0.49
86:6:2104:OHX:N5	86:6:2190:OHX:N6	2.60	0.49
4:s2:102:VAL:O	4:s2:113:LEU:HD23	2.13	0.49
16:c4:17:ALA:HA	16:c4:30:VAL:HG22	1.94	0.49
21:c9:73:VAL:HG21	21:c9:102:ARG:HG3	1.94	0.49
27:d5:44:GLN:O	27:d5:47:TYR:HB3	2.12	0.49
29:d7:54:VAL:HG12	29:d7:63:LEU:HB2	1.94	0.49
35:sM:64:LYS:O	35:sM:66:ALA:N	2.45	0.49
35:sM:162:GLN:O	35:sM:164:ASN:N	2.45	0.49
36:5:513:G:H2'	36:5:514:G:O4'	2.12	0.49
36:5:1228:C:H2'	36:5:1229:G:H8	1.76	0.49
36:5:1558:A:H1'	61:n5:34:LEU:HB2	1.95	0.49
40:l3:229:VAL:HG13	40:l3:235:THR:HG21	1.95	0.49
42:l5:110:LEU:HA	42:l5:113:LEU:HB2	1.93	0.49
44:l7:141:TYR:HA	44:l7:144:ILE:HD12	1.94	0.49
48:m1:60:ARG:HB2	48:m1:60:ARG:NH2	2.27	0.49
49:m3:17:HIS:HB3	49:m3:20:GLU:HG3	1.94	0.49
49:m3:46:ILE:HA	49:m3:49:ARG:NH1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:27:VAL:HB	51:m5:122:ASN:ND2	2.27	0.49
52:m6:185:ALA:O	52:m6:187:GLU:N	2.45	0.49
63:n7:8:GLY:HA2	63:n7:25:ILE:O	2.13	0.49
64:n8:90:TYR:HA	64:n8:93:SER:HB3	1.94	0.49
1:2:324:U:O2'	13:C1:80:MET:HE3	2.12	0.49
1:2:818:C:N4	1:2:819:G:O6	2.42	0.49
1:2:1485:C:OP1	86:2:2099:OHX:N6	2.45	0.49
1:2:1527:C:H2'	1:2:1528:U:C6	2.46	0.49
1:2:1601:G:N2	21:C9:88:VAL:HG22	2.27	0.49
1:2:1764:C:H3'	1:2:1767:G:N7	2.27	0.49
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.47	0.49
3:S1:70:LEU:HD13	3:S1:71:ALA:N	2.27	0.49
3:S1:127:VAL:HG21	3:S1:173:THR:HG22	1.94	0.49
6:S4:26:CYS:HB3	11:S9:2:PRO:O	2.12	0.49
12:C0:16:PHE:O	12:C0:88:PRO:HA	2.12	0.49
36:1:313:A:C6	36:1:314:U:C4	3.00	0.49
36:1:796:U:H2'	36:1:797:U:H6	1.77	0.49
36:1:1048:A:H2'	47:M0:22:TYR:CE1	2.48	0.49
36:1:1419:A:H5'	38:4:20:U:O3'	2.12	0.49
36:1:1916:U:H2'	36:1:1917:C:O4'	2.12	0.49
36:1:2137:U:C6	36:1:2141:U:C4	3.00	0.49
41:L4:125:ALA:HB1	41:L4:238:LEU:HB3	1.94	0.49
41:L4:145:ILE:O	86:L4:404:OHX:N5	2.45	0.49
42:L5:148:ILE:HG13	42:L5:159:VAL:HG21	1.93	0.49
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.11	0.49
59:N3:40:LYS:NZ	59:N3:59:MET:HE2	2.27	0.49
59:N3:87:ARG:HG3	59:N3:89:ASP:OD1	2.13	0.49
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.12	0.49
1:6:9:U:O4	86:6:2146:OHX:N3	2.45	0.49
1:6:332:U:O2'	10:s8:5:ARG:NH1	2.46	0.49
1:6:938:G:O6	86:6:2105:OHX:N3	2.45	0.49
1:6:1189:A:N6	1:6:1190:C:H41	2.11	0.49
1:6:1769:U:O2	16:c4:136:ARG:HD2	2.12	0.49
4:s2:116:LYS:HG3	4:s2:117:THR:N	2.24	0.49
6:s4:134:LYS:O	6:s4:136:VAL:HG23	2.12	0.49
6:s4:154:ILE:HG12	6:s4:172:PHE:CD2	2.47	0.49
10:s8:36:THR:HB	10:s8:57:ALA:O	2.13	0.49
11:s9:6:ARG:HH11	11:s9:6:ARG:HB2	1.77	0.49
15:c3:65:VAL:O	15:c3:67:THR:N	2.45	0.49
23:d1:16:LYS:HD2	23:d1:21:ASN:O	2.12	0.49
36:5:550:A:H2'	36:5:551:A:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:795:G:O6	86:5:3928:OHX:N6	2.45	0.49
36:5:1080:A:OP1	42:15:140:ARG:HB2	2.12	0.49
36:5:1213:G:OP1	56:n0:139:TYR:OH	2.28	0.49
36:5:2171:G:H2'	36:5:2172:A:H8	1.77	0.49
36:5:2542:U:H1'	36:5:2543:U:C5	2.47	0.49
39:12:86:GLN:HG2	39:12:88:ILE:HD11	1.93	0.49
44:17:47:ARG:NH1	44:17:183:ASP:OD2	2.43	0.49
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.93	0.49
50:m4:19:ARG:HB3	50:m4:35:ILE:HD12	1.94	0.49
50:m4:36:VAL:HB	50:m4:45:LEU:HD23	1.94	0.49
50:m4:125:LYS:HA	50:m4:128:ARG:HH12	1.77	0.49
63:n7:46:ILE:HD11	63:n7:49:TYR:CD2	2.46	0.49
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.12	0.49
1:2:66:U:C5	8:S6:173:PRO:HG3	2.47	0.49
1:2:285:G:H2'	1:2:286:C:H6	1.77	0.49
1:2:1402:G:H2'	1:2:1403:C:O4'	2.13	0.49
1:2:1536:G:N1	1:2:1538:U:O2	2.45	0.49
3:S1:157:GLN:HB2	3:S1:160:HIS:CE1	2.48	0.49
4:S2:162:CYS:O	4:S2:165:VAL:N	2.45	0.49
8:S6:131:LYS:HB2	60:N4:81:PRO:O	2.11	0.49
16:C4:50:ALA:HB3	16:C4:53:ASP:HB2	1.94	0.49
41:L4:25:VAL:O	41:L4:27:SER:N	2.45	0.49
44:L7:157:ASN:O	44:L7:159:GLN:HG2	2.11	0.49
47:M0:80:SER:HB3	47:M0:147:VAL:HG11	1.95	0.49
53:M7:67:ILE:HG22	53:M7:80:LYS:HB3	1.93	0.49
61:N5:45:LYS:HG2	71:O5:75:TYR:CD2	2.47	0.49
66:O0:16:LEU:HD12	66:O0:98:SER:N	2.27	0.49
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.13	0.49
68:O2:105:ARG:HE	68:O2:124:GLY:CA	2.23	0.49
1:6:324:U:OP1	13:c1:133:LYS:NZ	2.40	0.49
1:6:1553:G:O2'	1:6:1555:A:N7	2.45	0.49
2:s0:41:ARG:HB2	2:s0:45:VAL:HB	1.94	0.49
2:s0:75:ALA:HB1	2:s0:174:TRP:CH2	2.47	0.49
3:s1:139:ALA:HB2	3:s1:172:LEU:HD11	1.94	0.49
4:s2:81:MET:HB2	4:s2:101:VAL:HG12	1.95	0.49
4:s2:176:SER:HB2	4:s2:195:ASP:HB3	1.95	0.49
8:s6:105:ASP:OD2	8:s6:105:ASP:N	2.45	0.49
11:s9:111:THR:O	11:s9:114:TYR:N	2.46	0.49
15:c3:47:PRO:HG2	15:c3:86:GLU:OE2	2.13	0.49
15:c3:87:ASP:HB3	15:c3:125:LEU:HD11	1.95	0.49
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c7:86:PRO:HG2	19:c7:88:VAL:HA	1.94	0.49
36:5:1276:U:H2'	36:5:1277:C:C6	2.47	0.49
36:5:1317:A:C4	36:5:1319:G:N7	2.80	0.49
36:5:1405:U:OP1	68:o2:64:LYS:NZ	2.46	0.49
36:5:2661:G:H2'	36:5:2662:G:H8	1.77	0.49
36:5:3329:U:H2'	36:5:3330:A:H5''	1.93	0.49
42:l5:41:LYS:HA	42:l5:41:LYS:HE3	1.93	0.49
44:l7:22:THR:HA	44:l7:25:GLN:HG2	1.94	0.49
45:l8:91:PHE:O	45:l8:95:ASN:HB2	2.12	0.49
49:m3:105:ASN:ND2	49:m3:108:ILE:HG12	2.28	0.49
53:m7:29:THR:HA	53:m7:32:THR:HG23	1.94	0.49
55:m9:123:LEU:O	55:m9:127:SER:OG	2.28	0.49
56:n0:89:ASN:OD1	57:n1:156:TYR:N	2.37	0.49
56:n0:134:ASP:O	56:n0:136:LYS:HG2	2.12	0.49
66:o0:100:ILE:HG13	66:o0:101:LEU:HD13	1.93	0.49
71:o5:41:LEU:O	71:o5:44:ILE:HG22	2.11	0.49
1:2:69:G:H1	1:2:82:U:H3	1.59	0.49
1:2:803:A:N3	9:S7:104:ARG:NE	2.60	0.49
1:2:1738:U:H2'	1:2:1739:C:C6	2.48	0.49
4:S2:78:ASP:HA	4:S2:104:VAL:HG12	1.93	0.49
7:S5:94:THR:OG1	7:S5:95:ASN:N	2.46	0.49
9:S7:71:HIS:CG	9:S7:131:PHE:HZ	2.30	0.49
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.77	0.49
11:S9:121:SER:HB3	11:S9:124:HIS:HB2	1.94	0.49
11:S9:171:ARG:NH1	11:S9:174:ARG:HG3	2.27	0.49
21:C9:65:ILE:HD11	21:C9:76:LEU:HD11	1.95	0.49
28:D6:66:LYS:HD3	28:D6:66:LYS:H	1.78	0.49
34:SR:176:LYS:HD3	34:SR:196:ASN:C	2.37	0.49
35:SM:64:LYS:HD3	35:SM:64:LYS:H	1.77	0.49
35:SM:123:ALA:O	35:SM:126:ASP:HB2	2.11	0.49
36:1:290:G:H2'	36:1:291:C:H6	1.77	0.49
36:1:976:U:P	54:M8:144:ARG:HH22	2.36	0.49
36:1:1018:G:N7	36:1:1035:G:N2	2.61	0.49
36:1:1245:A:N6	36:1:1272:C:O2'	2.45	0.49
36:1:1580:A:H5'	36:1:2522:G:N7	2.27	0.49
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.43	0.49
36:1:3386:G:H2'	36:1:3387:U:C6	2.48	0.49
44:L7:85:PHE:H	44:L7:139:PRO:HD3	1.77	0.49
44:L7:180:SER:HB2	44:L7:183:ASP:N	2.26	0.49
44:L7:186:HIS:O	44:L7:190:THR:HG23	2.13	0.49
44:L7:210:PRO:HD3	44:L7:243:MET:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:73:ASN:O	47:M0:77:THR:HG23	2.12	0.49
48:M1:82:ARG:CG	48:M1:112:LEU:HB2	2.43	0.49
49:M3:9:ILE:HD11	64:N8:45:MET:HE1	1.94	0.49
52:M6:42:ASN:OD1	52:M6:125:ARG:HD3	2.12	0.49
63:N7:88:ASP:HB3	63:N7:121:ARG:NH2	2.27	0.49
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.77	0.49
76:Q0:122:ARG:HH11	76:Q0:122:ARG:HG3	1.77	0.49
1:6:1031:U:H4'	1:6:1032:G:OP2	2.12	0.49
3:s1:23:PRO:HB2	3:s1:27:LYS:HE2	1.94	0.49
3:s1:131:ASP:O	3:s1:133:TYR:N	2.44	0.49
7:s5:225:ARG:CZ	30:d8:58:GLU:HB2	2.42	0.49
12:c0:24:LYS:HB2	12:c0:63:TYR:CE1	2.48	0.49
16:c4:31:THR:OG1	16:c4:34:SER:O	2.29	0.49
17:c5:15:HIS:CG	17:c5:16:SER:H	2.29	0.49
19:c7:6:THR:OG1	19:c7:8:THR:HG23	2.12	0.49
19:c7:106:THR:O	19:c7:110:VAL:HG22	2.12	0.49
34:sR:127:ARG:C	34:sR:129:LYS:H	2.20	0.49
36:5:70:A:N1	36:5:313:A:O2'	2.39	0.49
36:5:1470:U:OP1	86:5:3950:OHX:N6	2.46	0.49
36:5:2335:G:N2	36:5:2339:C:O2	2.38	0.49
36:5:2713:U:OP1	78:q2:9:LYS:HD2	2.13	0.49
37:7:96:U:OP1	56:n0:43:TYR:OH	2.23	0.49
38:8:83:C:H4'	38:8:85:G:N3	2.28	0.49
39:l2:46:LYS:HD2	39:l2:62:VAL:HG11	1.94	0.49
40:l3:213:GLU:HB2	40:l3:282:ILE:HG13	1.95	0.49
40:l3:227:GLU:HG3	40:l3:270:ARG:NE	2.12	0.49
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.38	0.49
45:l8:34:PHE:H	45:l8:39:ALA:HB3	1.77	0.49
52:m6:92:THR:O	52:m6:96:LYS:HG3	2.11	0.49
54:m8:69:ARG:O	54:m8:71:LEU:N	2.45	0.49
59:n3:53:SER:O	59:n3:54:LEU:C	2.55	0.49
1:2:87:C:H1'	1:2:168:A:N1	2.27	0.49
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.46	0.49
1:2:209:U:H5'	10:S8:171:SER:HB3	1.94	0.49
1:2:751:G:H2'	1:2:752:A:C8	2.48	0.49
1:2:1153:G:N7	86:2:2167:OHX:N1	2.60	0.49
2:S0:26:ALA:HB1	2:S0:29:VAL:HG13	1.94	0.49
4:S2:130:ILE:O	4:S2:134:LEU:HD22	2.12	0.49
5:S3:195:SER:HB2	5:S3:200:LYS:HG3	1.94	0.49
6:S4:123:LEU:HA	6:S4:160:VAL:O	2.12	0.49
9:S7:131:PHE:HB3	9:S7:132:PRO:CD	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:163:PRO:HG2	11:S9:164:PHE:CD2	2.48	0.49
21:C9:16:ASN:HA	21:C9:56:LYS:HZ2	1.75	0.49
24:D2:105:THR:HG1	24:D2:126:LEU:HG	1.77	0.49
25:D3:87:VAL:HG22	25:D3:124:VAL:HG21	1.93	0.49
36:1:1650:G:O6	86:1:4134:OHX:N2	2.46	0.49
36:1:1845:G:O2'	73:O7:5:THR:HG22	2.11	0.49
36:1:2180:G:P	39:L2:174:ARG:HH22	2.35	0.49
36:1:2252:A:N6	36:1:2264:U:H3	2.09	0.49
36:1:3295:A:H2'	36:1:3296:A:C8	2.48	0.49
36:1:3325:G:H5''	67:O1:103:GLY:HA2	1.95	0.49
86:1:3998:OHX:N6	86:1:4169:OHX:N5	2.60	0.49
38:4:103:G:C6	38:4:105:A:C6	3.01	0.49
46:L9:1:MET:HE2	46:L9:3:TYR:CD1	2.47	0.49
46:L9:86:TYR:CE1	46:L9:151:VAL:HG13	2.48	0.49
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	2.12	0.49
67:O1:9:THR:HG21	67:O1:74:ARG:HH11	1.78	0.49
67:O1:31:ARG:HB3	67:O1:31:ARG:NH1	2.26	0.49
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.46	0.49
71:O5:62:GLN:O	71:O5:65:ALA:HB3	2.12	0.49
73:O7:87:SER:O	86:O7:104:OHX:N4	2.46	0.49
1:6:228:G:H22	1:6:237:C:N4	2.10	0.49
1:6:323:A:H61	1:6:345:U:H3	1.59	0.49
1:6:754:A:H4'	1:6:754:A:OP1	2.11	0.49
1:6:1629:G:H2'	1:6:1630:U:O4'	2.13	0.49
6:s4:182:TYR:CE1	6:s4:192:ILE:HD11	2.47	0.49
7:s5:56:ALA:O	7:s5:58:LEU:N	2.45	0.49
7:s5:89:ILE:HD12	7:s5:90:ILE:H	1.76	0.49
11:s9:109:LEU:CB	11:s9:146:PHE:HB3	2.41	0.49
20:c8:108:LYS:HA	20:c8:111:ASP:HB2	1.93	0.49
21:c9:27:LYS:O	21:c9:27:LYS:HD2	2.12	0.49
36:5:229:G:H5''	62:n6:4:GLN:HB2	1.94	0.49
36:5:1119:C:H2'	36:5:1120:A:C8	2.47	0.49
36:5:2655:U:H5'	78:q2:3:ASN:O	2.12	0.49
38:8:2:A:H3'	38:8:3:A:C8	2.41	0.49
45:l8:161:GLU:OE1	51:m5:26:ARG:NH1	2.46	0.49
51:m5:24:ARG:HH11	51:m5:24:ARG:CG	2.25	0.49
59:n3:13:ILE:HG13	59:n3:85:TRP:CG	2.48	0.49
70:o4:9:ARG:HG2	70:o4:34:HIS:NE2	2.27	0.49
1:2:77:U:H4'	1:2:78:A:O5'	2.13	0.49
1:2:795:U:H5	1:2:796:A:C4	2.30	0.49
1:2:803:A:H1'	9:S7:104:ARG:HE	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1244:A:O2'	1:2:1245:G:OP1	2.29	0.49
1:2:1396:U:H2'	1:2:1397:U:C6	2.48	0.49
1:2:1636:C:C2	1:2:1765:A:N6	2.81	0.49
86:2:2043:OHX:N1	86:2:2098:OHX:N5	2.60	0.49
3:S1:27:LYS:HA	3:S1:49:ASN:HA	1.94	0.49
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	1.95	0.49
6:S4:49:ARG:NH1	6:S4:50:ASN:HD21	2.10	0.49
28:D6:44:ILE:HD12	28:D6:45:VAL:H	1.78	0.49
36:1:599:C:H5''	36:1:600:G:OP2	2.12	0.49
36:1:1045:C:O2'	36:1:1046:A:H5'	2.12	0.49
36:1:1062:A:H4'	57:N1:105:PHE:CD2	2.48	0.49
36:1:1278:A:O2'	36:1:1279:C:H6	1.95	0.49
36:1:3273:A:OP2	43:L6:77:ARG:NH1	2.42	0.49
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	1.95	0.49
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.11	0.49
41:L4:300:ARG:NE	54:M8:39:ARG:HA	2.27	0.49
42:L5:268:GLU:HA	42:L5:271:LYS:HE2	1.94	0.49
44:L7:158:LYS:O	44:L7:160:ARG:N	2.42	0.49
46:L9:90:MET:HB2	46:L9:144:ILE:CG2	2.43	0.49
52:M6:177:LYS:O	52:M6:180:SER:N	2.46	0.49
55:M9:6:THR:O	55:M9:10:LEU:HB2	2.13	0.49
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.47	0.49
60:N4:14:TYR:O	60:N4:17:ARG:HB3	2.13	0.49
1:6:74:U:C4	1:6:76:A:H5'	2.48	0.49
1:6:357:G:OP2	86:6:2074:OHX:N6	2.46	0.49
1:6:488:G:N2	1:6:499:U:H3	2.11	0.49
1:6:689:G:H2'	1:6:690:G:O4'	2.13	0.49
1:6:765:G:N1	11:s9:146:PHE:HZ	2.10	0.49
1:6:1153:G:H1	1:6:1625:C:H42	1.61	0.49
1:6:1529:C:H2'	1:6:1530:C:C6	2.48	0.49
5:s3:10:LYS:HG3	5:s3:11:LEU:HD23	1.94	0.49
33:e1:106:TYR:CZ	33:e1:131:PHE:HZ	2.30	0.49
34:sR:37:SER:OG	34:sR:38:ARG:N	2.44	0.49
36:5:59:G:H2'	38:8:33:A:O2'	2.12	0.49
36:5:237:G:C2	36:5:238:A:C8	3.01	0.49
36:5:1741:A:C6	36:5:1742:U:C2	3.00	0.49
36:5:2211:U:H5	36:5:2234:G:O6	1.96	0.49
36:5:3296:A:H2'	36:5:3297:U:C6	2.47	0.49
36:5:3357:U:O2'	36:5:3358:U:OP1	2.31	0.49
86:5:3966:OHX:N3	86:5:4238:OHX:N2	2.60	0.49
37:7:121:U:C5'	42:l5:265:TYR:HE1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:15:G:C6	38:8:16:G:N1	2.81	0.49
41:14:232:SER:O	41:14:233:LEU:HB2	2.13	0.49
42:15:76:ALA:HB3	42:15:109:THR:HG22	1.94	0.49
44:17:121:LYS:HE2	44:17:125:GLU:CD	2.38	0.49
46:19:89:LYS:HG2	46:19:145:VAL:HG22	1.95	0.49
53:m7:70:THR:OG1	53:m7:71:ALA:N	2.44	0.49
54:m8:60:PRO:HG3	54:m8:144:ARG:HA	1.94	0.49
60:n4:4:GLU:HG3	60:n4:30:ARG:CZ	2.42	0.49
1:2:641:G:H2'	1:2:642:G:H8	1.77	0.49
1:2:711:U:H1'	1:2:712:G:H5'	1.94	0.49
1:2:844:A:H2'	1:2:845:G:H8	1.77	0.49
3:S1:81:PHE:CD2	3:S1:82:ARG:HG3	2.48	0.49
9:S7:103:SER:O	9:S7:106:SER:HB3	2.13	0.49
11:S9:78:ARG:HH22	11:S9:82:ARG:HH21	1.61	0.49
13:C1:83:THR:HB	13:C1:110:HIS:HA	1.95	0.49
13:C1:91:LEU:HD22	13:C1:101:GLU:O	2.13	0.49
16:C4:42:VAL:HA	16:C4:46:MET:SD	2.53	0.49
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.95	0.49
36:1:65:A:H4'	36:1:66:A:O5'	2.13	0.49
36:1:358:G:N2	36:1:361:A:OP2	2.35	0.49
36:1:888:A:H2'	36:1:889:U:O4'	2.11	0.49
36:1:1017:C:O2'	36:1:1018:G:OP2	2.31	0.49
36:1:2157:G:C6	39:L2:151:PRO:HD2	2.48	0.49
36:1:2352:A:H5''	53:M7:83:TRP:O	2.11	0.49
36:1:2392:C:H1'	40:L3:266:ARG:NH1	2.27	0.49
36:1:2666:C:OP2	36:1:2687:G:N1	2.39	0.49
37:3:25:G:H2'	37:3:26:C:O4'	2.11	0.49
41:L4:180:LYS:NZ	41:L4:203:ARG:O	2.45	0.49
41:L4:251:THR:O	41:L4:254:ALA:HB3	2.13	0.49
43:L6:148:GLU:OE2	43:L6:151:LYS:HE3	2.12	0.49
45:L8:84:ARG:HH22	45:L8:181:LYS:NZ	2.10	0.49
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.47	0.49
51:M5:43:THR:OG1	51:M5:131:GLU:OE2	2.30	0.49
52:M6:41:LEU:HB2	52:M6:138:LEU:HD22	1.94	0.49
53:M7:54:HIS:HA	53:M7:83:TRP:CD1	2.48	0.49
55:M9:105:LEU:HD22	55:M9:138:LEU:HD22	1.95	0.49
56:N0:1:MET:HB2	56:N0:118:PHE:CD1	2.48	0.49
68:O2:74:PHE:CD2	68:O2:85:LEU:HD21	2.47	0.49
76:Q0:99:CYS:O	76:Q0:100:TYR:HB2	2.13	0.49
1:6:94:U:H4'	6:s4:6:LYS:HA	1.95	0.49
1:6:198:A:C2'	1:6:199:G:H5'	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:230:C:H42	1:6:235:G:H1	1.61	0.49
1:6:434:G:O6	86:6:2081:OHX:N2	2.45	0.49
1:6:585:A:H2'	1:6:586:G:C8	2.48	0.49
1:6:1228:G:OP2	1:6:1228:G:H4'	2.13	0.49
1:6:1234:A:H4'	33:e1:146:SER:HB3	1.95	0.49
1:6:1579:U:H1'	18:c6:139:GLN:HG3	1.95	0.49
7:s5:120:ILE:O	7:s5:124:LEU:HD13	2.12	0.49
14:c2:42:ALA:N	14:c2:122:VAL:O	2.42	0.49
19:c7:71:PHE:CE2	19:c7:74:GLN:HB2	2.46	0.49
21:c9:76:LEU:O	21:c9:80:TYR:HD2	1.96	0.49
36:5:235:A:H2'	36:5:236:G:O4'	2.11	0.49
36:5:856:G:C6	36:5:857:G:N1	2.80	0.49
36:5:944:C:H4'	68:o2:33:ARG:HD3	1.94	0.49
36:5:1135:A:H5'	65:n9:7:HIS:O	2.13	0.49
36:5:1439:U:C2	36:5:1440:G:C8	3.01	0.49
36:5:1639:C:H5''	70:o4:72:VAL:HG11	1.94	0.49
36:5:2134:G:C2	36:5:2135:U:C6	3.01	0.49
86:7:220:OHX:N4	86:7:228:OHX:N2	2.61	0.49
39:l2:125:ALA:C	39:l2:126:LEU:HD23	2.37	0.49
40:l3:112:ASP:O	40:l3:116:ARG:HB2	2.13	0.49
46:l9:19:SER:HB3	50:m4:6:ILE:HB	1.94	0.49
49:m3:168:ARG:HD3	49:m3:172:LEU:HD11	1.94	0.49
62:n6:11:ASP:HB3	62:n6:14:LYS:HG3	1.94	0.49
74:o8:12:LEU:HD11	74:o8:68:SER:O	2.13	0.49
79:q3:18:TYR:O	79:q3:22:LEU:HD12	2.13	0.49
1:2:494:U:O2'	1:2:495:C:O5'	2.26	0.49
1:2:681:U:C4	1:2:682:C:H5	2.30	0.49
1:2:702:G:H21	1:2:703:G:H1'	1.77	0.49
1:2:712:G:H2'	1:2:713:A:O4'	2.12	0.49
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.45	0.49
1:2:1628:U:H2'	1:2:1629:G:C8	2.48	0.49
1:2:1793:G:H4'	1:2:1794:A:OP1	2.12	0.49
86:2:2043:OHX:N2	86:2:2098:OHX:N5	2.61	0.49
2:S0:42:PRO:O	2:S0:43:ASP:HB2	2.12	0.49
7:S5:206:SER:O	7:S5:212:LYS:NZ	2.46	0.49
8:S6:55:GLY:N	8:S6:63:MET:HE3	2.27	0.49
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.93	0.49
9:S7:31:SER:O	9:S7:35:LYS:HE3	2.12	0.49
19:C7:27:ASP:OD2	19:C7:30:THR:N	2.42	0.49
20:C8:91:ASP:OD1	20:C8:93:THR:OG1	2.29	0.49
27:D5:38:HIS:CE1	27:D5:70:LYS:HA	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1015:U:O4	36:1:1035:G:N2	2.46	0.49
36:1:2380:U:H2'	36:1:2381:G:H8	1.77	0.49
36:1:2407:C:O5'	36:1:2407:C:H6	1.96	0.49
36:1:2756:C:O4'	57:N1:49:GLN:HG2	2.13	0.49
36:1:3230:G:H2'	36:1:3231:U:O4'	2.12	0.49
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.27	0.49
40:L3:255:TRP:C	40:L3:255:TRP:CD1	2.90	0.49
45:L8:45:ASN:OD1	61:N5:26:VAL:HA	2.13	0.49
51:M5:44:ARG:HH11	51:M5:47:LYS:HG2	1.78	0.49
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.95	0.49
73:O7:87:SER:O	86:O7:104:OHX:N1	2.46	0.49
1:6:16:G:O6	4:s2:203:LYS:NZ	2.46	0.49
1:6:67:A:OP1	8:s6:171:LYS:NZ	2.46	0.49
1:6:848:C:H2'	1:6:849:C:C6	2.47	0.49
1:6:1392:U:H2'	1:6:1393:C:H6	1.78	0.49
1:6:1564:U:OP1	21:c9:38:LYS:HE3	2.13	0.49
1:6:1595:U:H3'	1:6:1596:C:O2	2.13	0.49
1:6:1685:G:N2	1:6:1717:G:H1'	2.28	0.49
6:s4:163:ASP:HB3	6:s4:167:GLY:O	2.13	0.49
10:s8:22:ARG:CZ	10:s8:25:ARG:HD2	2.43	0.49
22:d0:27:THR:HB	22:d0:88:LYS:HG2	1.94	0.49
26:d4:122:GLY:O	26:d4:124:ARG:N	2.46	0.49
28:d6:22:ARG:NH2	28:d6:27:SER:O	2.41	0.49
35:sM:64:LYS:C	35:sM:66:ALA:H	2.20	0.49
36:5:257:U:H2'	36:5:258:G:H8	1.78	0.49
36:5:1149:G:N1	36:5:1155:C:N4	2.60	0.49
36:5:2747:A:OP1	42:l5:176:SER:OG	2.31	0.49
40:l3:56:ILE:HG22	40:l3:74:GLU:HB2	1.94	0.49
41:l4:302:ALA:HB2	54:m8:39:ARG:CZ	2.42	0.49
47:m0:85:PHE:HA	47:m0:140:THR:HG22	1.95	0.49
48:m1:29:ARG:HA	48:m1:32:ARG:NH2	2.28	0.49
58:n2:95:PHE:HE1	58:n2:103:TYR:CD1	2.30	0.49
59:n3:27:ASP:CG	59:n3:28:ASN:H	2.20	0.49
70:o4:81:CYS:HG	70:o4:84:CYS:HG	1.60	0.49
1:2:814:A:C5'	55:M9:170:ARG:HH22	2.22	0.49
1:2:908:U:H5''	1:2:909:U:OP2	2.13	0.49
1:2:1151:A:H61	1:2:1627:U:H3	1.61	0.49
1:2:1480:G:H3'	1:2:1481:C:C6	2.47	0.49
1:2:1497:U:OP2	86:2:2031:OHX:N1	2.46	0.49
1:2:1765:A:C8	1:2:1768:G:N2	2.81	0.49
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:94:THR:O	7:S5:97:LEU:N	2.39	0.49
10:S8:8:ARG:HD3	10:S8:21:PHE:HD1	1.78	0.49
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.48	0.49
15:C3:78:ASN:C	15:C3:80:LEU:H	2.21	0.49
21:C9:54:PHE:CE2	21:C9:104:VAL:HG22	2.48	0.49
26:D4:19:ALA:HB1	26:D4:81:GLU:HG2	1.95	0.49
27:D5:62:VAL:O	27:D5:66:VAL:HG23	2.13	0.49
36:1:213:A:N6	36:1:227:G:O2'	2.46	0.49
36:1:816:A:OP1	73:O7:15:SER:OG	2.31	0.49
36:1:847:A:H2'	36:1:848:A:H8	1.76	0.49
36:1:1655:G:O2'	36:1:1800:A:N6	2.44	0.49
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.46	0.49
36:1:2370:G:C6	36:1:2371:G:C6	3.00	0.49
37:3:36:C:O2'	37:3:37:G:H5'	2.13	0.49
41:L4:105:THR:O	49:M3:26:PHE:HZ	1.96	0.49
42:L5:120:LYS:O	42:L5:248:ARG:NH2	2.46	0.49
44:L7:127:LEU:C	44:L7:129:LEU:N	2.69	0.49
54:M8:96:PHE:CG	54:M8:97:PRO:HD2	2.48	0.49
61:N5:67:ILE:CD1	61:N5:121:LYS:HG3	2.43	0.49
64:N8:36:GLY:HA3	64:N8:40:HIS:CE1	2.48	0.49
64:N8:73:LEU:HD22	64:N8:109:TYR:CE1	2.47	0.49
67:O1:32:ALA:O	67:O1:36:ILE:HD12	2.12	0.49
1:6:2:A:H3'	4:s2:179:VAL:HG11	1.94	0.49
1:6:252:U:H5'	6:s4:131:LEU:O	2.13	0.49
1:6:482:U:O4	1:6:483:A:N6	2.46	0.49
1:6:581:U:H3'	1:6:581:U:H6	1.78	0.49
1:6:594:A:OP2	11:s9:37:LYS:HE2	2.13	0.49
1:6:723:G:H5'	1:6:724:C:OP2	2.13	0.49
1:6:1194:A:H2'	1:6:1195:C:H5'	1.93	0.49
1:6:1200:G:H4'	1:6:1201:G:C5'	2.43	0.49
1:6:1588:G:OP1	86:6:2124:OHX:N2	2.46	0.49
86:6:2120:OHX:N6	86:6:2171:OHX:N5	2.59	0.49
3:s1:164:ILE:O	3:s1:168:ILE:HG13	2.12	0.49
9:s7:173:TYR:O	9:s7:177:THR:HG22	2.13	0.49
12:c0:38:LYS:HB2	12:c0:41:TYR:CD2	2.48	0.49
26:d4:113:ASN:O	26:d4:116:LYS:HB2	2.12	0.49
28:d6:23:CYS:C	28:d6:25:ASN:H	2.21	0.49
34:sR:239:GLU:O	34:sR:257:ALA:N	2.46	0.49
36:5:181:U:H1'	36:5:236:G:N2	2.27	0.49
36:5:293:C:H2'	36:5:294:U:O4'	2.13	0.49
36:5:676:G:H3'	54:m8:107:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1299:U:H2'	36:5:1300:G:O4'	2.13	0.49
36:5:1618:G:H2'	36:5:1619:A:O4'	2.13	0.49
36:5:2179:C:O2'	39:12:130:SER:OG	2.18	0.49
36:5:2201:G:H2'	36:5:2202:C:H6	1.78	0.49
36:5:2647:A:N6	36:5:2648:G:C5	2.81	0.49
36:5:3173:G:C2	69:o3:96:ALA:HB2	2.48	0.49
45:l8:133:LYS:HD2	45:l8:138:HIS:HE1	1.78	0.49
45:l8:139:VAL:O	45:l8:143:ILE:HG13	2.12	0.49
46:l9:90:MET:HE3	46:l9:181:VAL:HG23	1.95	0.49
55:m9:6:THR:HG23	55:m9:9:ARG:HH12	1.78	0.49
61:n5:115:ARG:HH11	61:n5:115:ARG:CG	2.20	0.49
66:o0:74:ASN:N	66:o0:74:ASN:OD1	2.44	0.49
68:o2:43:ARG:HH11	68:o2:43:ARG:HG2	1.78	0.49
77:q1:3:ALA:O	77:q1:6:ARG:N	2.45	0.49
1:2:291:G:H2'	1:2:292:U:C6	2.47	0.48
1:2:307:G:OP1	13:C1:90:TYR:OH	2.31	0.48
1:2:927:C:H1'	16:C4:125:SER:HB2	1.93	0.48
1:2:1095:U:O3'	24:D2:19:LYS:NZ	2.45	0.48
1:2:1370:U:H4'	1:2:1371:A:H5'	1.95	0.48
2:S0:175:TYR:HD2	2:S0:176:LEU:HD23	1.78	0.48
4:S2:162:CYS:SG	4:S2:212:LYS:HE2	2.52	0.48
7:S5:63:GLN:H	7:S5:89:ILE:HG13	1.78	0.48
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.12	0.48
14:C2:119:SER:OG	14:C2:120:VAL:N	2.46	0.48
21:C9:5:SER:OG	21:C9:6:VAL:N	2.46	0.48
31:D9:10:HIS:CG	31:D9:11:PRO:HD2	2.48	0.48
34:SR:135:THR:O	34:SR:138:GLY:N	2.41	0.48
36:1:56:G:H1'	51:M5:162:ARG:HG3	1.94	0.48
36:1:295:A:OP1	72:O6:53:TYR:HE2	1.96	0.48
36:1:650:C:H6	36:1:650:C:O5'	1.96	0.48
36:1:817:A:H2'	36:1:920:A:C2	2.48	0.48
36:1:926:A:H2'	36:1:927:C:C6	2.48	0.48
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.95	0.48
36:1:2434:U:H5	36:1:2594:C:OP2	1.96	0.48
36:1:2732:G:C6	36:1:2733:A:C5	3.01	0.48
42:L5:181:PRO:HG2	42:L5:195:LEU:HD13	1.93	0.48
54:M8:16:ARG:NH1	54:M8:55:SER:HB3	2.28	0.48
56:N0:104:GLU:O	56:N0:108:GLN:HG2	2.13	0.48
57:N1:77:ASN:HB3	57:N1:84:TYR:HD2	1.77	0.48
58:N2:29:ASP:OD1	58:N2:31:ALA:HB3	2.13	0.48
63:N7:37:PRO:HD2	63:N7:38:PHE:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:72:ARG:O	67:O1:96:VAL:HG13	2.13	0.48
70:O4:46:ASP:CG	70:O4:80:ARG:HD2	2.38	0.48
1:6:591:A:H2'	1:6:592:A:C8	2.48	0.48
1:6:1186:U:H2'	1:6:1187:U:O4'	2.13	0.48
1:6:1661:U:H2'	1:6:1662:G:C8	2.48	0.48
3:s1:64:ARG:HH22	16:c4:37:GLU:HG3	1.77	0.48
9:s7:91:ILE:HD12	9:s7:92:PHE:H	1.78	0.48
11:s9:171:ARG:HE	11:s9:174:ARG:HB2	1.78	0.48
13:c1:86:ILE:HD11	13:c1:109:VAL:HG11	1.95	0.48
17:c5:108:ARG:HH21	20:c8:119:ILE:HD12	1.78	0.48
20:c8:105:VAL:HG13	20:c8:106:GLU:H	1.77	0.48
22:d0:20:ILE:HG22	22:d0:21:LYS:H	1.78	0.48
33:e1:103:LEU:HA	33:e1:105:TYR:HD2	1.77	0.48
35:sM:58:GLU:OE2	35:sM:62:ARG:HD2	2.13	0.48
36:5:495:G:H2'	36:5:496:C:O4'	2.12	0.48
36:5:978:G:N2	36:5:1104:G:C5	2.81	0.48
36:5:1213:G:H4'	56:n0:90:MET:HG2	1.94	0.48
36:5:1340:G:H2'	36:5:1341:U:H6	1.77	0.48
36:5:2203:U:H1'	36:5:2240:G:N2	2.28	0.48
36:5:3121:U:H4'	36:5:3122:A:OP1	2.12	0.48
86:5:3994:OHX:N4	86:5:4085:OHX:N2	2.60	0.48
37:7:23:A:C6	37:7:24:A:C6	3.01	0.48
37:7:57:G:H3'	37:7:58:C:C6	2.48	0.48
41:l4:140:HIS:NE2	41:l4:246:ARG:HG2	2.28	0.48
43:l6:80:ASN:OD1	43:l6:81:ALA:N	2.45	0.48
43:l6:97:ASN:O	43:l6:98:VAL:HB	2.13	0.48
51:m5:36:ILE:HG13	51:m5:64:VAL:HG23	1.94	0.48
52:m6:98:ALA:HA	52:m6:101:ARG:NH1	2.28	0.48
61:n5:115:ARG:HG3	61:n5:115:ARG:NH1	2.20	0.48
61:n5:121:LYS:HD3	61:n5:123:TYR:CE1	2.48	0.48
1:2:249:U:H3'	1:2:250:C:H5'	1.93	0.48
1:2:1242:A:OP1	17:C5:59:LYS:NZ	2.45	0.48
1:2:1590:G:H2'	1:2:1591:C:C6	2.49	0.48
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.13	0.48
7:S5:140:THR:HA	7:S5:214:LYS:HD2	1.94	0.48
19:C7:19:ARG:HG3	19:C7:20:TYR:CE1	2.48	0.48
20:C8:3:LEU:HD23	20:C8:5:VAL:HG13	1.95	0.48
20:C8:32:LEU:HD11	20:C8:47:CYS:SG	2.53	0.48
20:C8:88:ARG:CZ	20:C8:108:LYS:HE2	2.42	0.48
36:1:1673:G:C5	36:1:1775:G:C2	3.01	0.48
36:1:2733:A:H2'	36:1:2734:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3138:U:H2'	36:1:3139:A:H5''	1.95	0.48
40:L3:209:PHE:HB3	40:L3:282:ILE:CD1	2.43	0.48
41:L4:6:VAL:N	41:L4:20:LEU:O	2.32	0.48
46:L9:33:THR:O	46:L9:34:LEU:HD23	2.12	0.48
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.79	0.48
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	2.48	0.48
47:M0:150:GLU:O	47:M0:150:GLU:HG3	2.14	0.48
62:N6:42:GLN:HE21	62:N6:127:GLU:HB3	1.79	0.48
63:N7:51:LEU:HB2	63:N7:65:ARG:HH11	1.78	0.48
1:6:1097:U:H4'	1:6:1098:U:O5'	2.12	0.48
2:s0:155:PHE:O	23:d1:60:ARG:NH2	2.46	0.48
4:s2:106:ASP:OD1	4:s2:108:ASN:N	2.26	0.48
8:s6:3:LEU:HD23	8:s6:109:LEU:HB3	1.93	0.48
13:c1:23:PRO:C	13:c1:25:VAL:H	2.21	0.48
17:c5:111:MET:HG2	20:c8:119:ILE:HD11	1.93	0.48
34:sR:112:SER:HB2	34:sR:153:GLN:HA	1.94	0.48
36:5:54:C:O2'	36:5:1547:G:H1'	2.13	0.48
36:5:1246:G:C4	36:5:1264:G:C2	3.02	0.48
36:5:2244:A:OP1	39:l2:244:GLY:N	2.46	0.48
36:5:2298:U:O4	36:5:2923:U:H5	1.96	0.48
36:5:2567:C:N4	36:5:2568:C:H41	2.11	0.48
36:5:2676:A:H4'	36:5:2677:G:O5'	2.12	0.48
36:5:3272:C:O2	43:l6:80:ASN:HB2	2.13	0.48
37:7:23:A:O2'	37:7:121:U:O3'	2.16	0.48
38:8:10:A:H2'	38:8:11:C:C6	2.47	0.48
46:l9:9:GLN:HG2	46:l9:54:LYS:HD3	1.94	0.48
48:m1:81:GLU:O	48:m1:84:LEU:N	2.46	0.48
51:m5:140:LYS:HA	51:m5:143:ARG:HB2	1.95	0.48
61:n5:96:LYS:O	61:n5:100:LYS:HB2	2.13	0.48
76:q0:92:ASP:C	76:q0:93:LYS:HG2	2.38	0.48
79:q3:75:ALA:O	79:q3:79:VAL:HG23	2.12	0.48
1:2:1402:G:H2'	1:2:1403:C:H6	1.78	0.48
3:S1:131:ASP:HB3	3:S1:180:THR:CG2	2.44	0.48
7:S5:184:PHE:CZ	7:S5:185:ARG:HG3	2.49	0.48
10:S8:159:GLN:HB2	10:S8:165:LEU:HD23	1.94	0.48
15:C3:71:ILE:HA	15:C3:74:ILE:HG13	1.95	0.48
20:C8:69:ILE:O	20:C8:73:MET:HG3	2.13	0.48
25:D3:26:GLU:HB3	25:D3:29:TYR:HB3	1.95	0.48
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.11	0.48
36:1:677:A:OP1	54:M8:89:ASP:HB3	2.13	0.48
36:1:1450:G:H1	36:1:2354:C:H42	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1495:U:C5	36:1:1835:A:N1	2.77	0.48
36:1:2116:G:H5'	36:1:2116:G:N3	2.28	0.48
36:1:2402:A:H2'	41:L4:67:THR:OG1	2.13	0.48
36:1:3039:C:OP1	40:L3:62:ARG:NH1	2.47	0.48
36:1:3150:A:OP1	40:L3:132:LYS:HB2	2.14	0.48
36:1:3336:A:H8	36:1:3336:A:O5'	1.96	0.48
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.94	0.48
41:L4:330:TYR:O	41:L4:333:VAL:HG13	2.13	0.48
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.46	0.48
44:L7:88:ARG:CZ	44:L7:103:LEU:HD13	2.43	0.48
46:L9:101:VAL:HG12	46:L9:136:PHE:CZ	2.48	0.48
57:N1:54:HIS:CE1	57:N1:55:LYS:HG2	2.48	0.48
67:O1:72:ARG:NE	67:O1:104:LEU:HD12	2.28	0.48
72:O6:91:ASN:HA	72:O6:94:ILE:HD12	1.95	0.48
1:6:194:U:H2'	1:6:195:G:H4'	1.95	0.48
1:6:473:A:OP1	11:s9:44:ARG:NH1	2.44	0.48
1:6:722:G:O2'	1:6:723:G:H5''	2.13	0.48
1:6:741:C:O2	9:s7:107:ARG:NH2	2.45	0.48
1:6:870:C:H42	1:6:957:G:H1	1.62	0.48
1:6:1117:U:H2'	1:6:1118:G:C8	2.48	0.48
1:6:1230:A:H2'	1:6:1258:U:C5	2.46	0.48
1:6:1433:G:C4	31:d9:41:GLN:HB3	2.47	0.48
1:6:1549:C:OP1	17:c5:38:PRO:HA	2.13	0.48
2:s0:175:TYR:OH	2:s0:195:TRP:HB3	2.13	0.48
9:s7:140:VAL:HB	24:d2:52:TYR:HB3	1.95	0.48
17:c5:60:LEU:HD23	17:c5:76:VAL:HG21	1.95	0.48
17:c5:75:PRO:HA	17:c5:93:VAL:HB	1.94	0.48
17:c5:80:MET:HE2	17:c5:83:MET:HG3	1.94	0.48
20:c8:11:PHE:CE1	27:d5:41:ILE:HG12	2.48	0.48
24:d2:76:SER:HA	24:d2:77:PRO:C	2.37	0.48
25:d3:109:ARG:HB3	25:d3:109:ARG:NH1	2.28	0.48
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.95	0.48
28:d6:36:ILE:HD12	28:d6:36:ILE:H	1.78	0.48
31:d9:4:GLU:N	31:d9:4:GLU:OE1	2.46	0.48
36:5:321:C:H5''	51:m5:150:TRP:CZ3	2.48	0.48
36:5:437:G:N2	36:5:622:A:H61	2.11	0.48
36:5:819:U:H6	36:5:819:U:O5'	1.96	0.48
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.46	0.48
36:5:1175:C:O4'	52:m6:21:SER:OG	2.31	0.48
36:5:1404:G:N2	36:5:1407:A:OP2	2.39	0.48
36:5:2214:A:H8	36:5:2214:A:O5'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2363:A:O2'	36:5:2364:G:H5'	2.13	0.48
36:5:2805:G:N3	36:5:2967:A:H2	2.11	0.48
37:7:13:A:OP1	37:7:111:U:O2'	2.28	0.48
39:l2:36:GLU:CD	39:l2:163:ARG:HH11	2.21	0.48
45:l8:91:PHE:CZ	45:l8:185:ARG:HD3	2.48	0.48
49:m3:46:ILE:HD13	49:m3:49:ARG:HB2	1.95	0.48
54:m8:120:GLU:OE2	54:m8:130:ARG:NH2	2.39	0.48
56:n0:12:ARG:HB3	56:n0:24:LEU:HD23	1.94	0.48
56:n0:151:PRO:O	56:n0:152:LEU:HD23	2.13	0.48
61:n5:131:ASP:OD2	61:n5:133:LEU:N	2.46	0.48
64:n8:63:LYS:HE2	64:n8:68:PHE:CE2	2.48	0.48
76:q0:77:ILE:HG23	76:q0:78:ILE:HG22	1.94	0.48
1:2:71:A:H2'	1:2:72:A:O4'	2.13	0.48
1:2:142:G:N2	1:2:173:A:H2	2.09	0.48
1:2:1082:C:N4	1:2:1091:A:H62	2.10	0.48
1:2:1388:A:H4'	1:2:1389:C:O5'	2.14	0.48
1:2:1611:A:H1'	7:S5:98:MET:HE2	1.95	0.48
3:S1:39:GLU:HB3	3:S1:73:LEU:O	2.12	0.48
3:S1:91:VAL:HG23	3:S1:96:LEU:HB3	1.94	0.48
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.95	0.48
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.13	0.48
24:D2:27:ILE:CG1	24:D2:61:ILE:HB	2.44	0.48
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.48	0.48
35:SM:84:LYS:HD2	35:SM:84:LYS:H	1.77	0.48
36:1:978:G:O2'	36:1:979:U:O2	2.28	0.48
36:1:1321:G:N2	56:N0:112:ALA:HB2	2.28	0.48
36:1:1791:C:H2'	36:1:1792:C:C6	2.49	0.48
36:1:2269:U:C2	36:1:2272:G:C2	3.00	0.48
36:1:2392:C:H5''	36:1:2393:G:OP2	2.13	0.48
36:1:2877:G:H2'	36:1:2878:G:O4'	2.14	0.48
36:1:3151:U:H4'	36:1:3294:A:H1'	1.95	0.48
42:L5:180:PHE:HB3	42:L5:195:LEU:HD22	1.95	0.48
42:L5:190:ILE:HG13	42:L5:191:ASP:N	2.24	0.48
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.95	0.48
47:M0:193:ASP:CG	47:M0:198:LYS:HE3	2.38	0.48
61:N5:55:ASN:OD1	61:N5:56:ARG:N	2.45	0.48
63:N7:2:ALA:O	63:N7:4:PHE:N	2.46	0.48
1:6:484:C:N4	1:6:503:G:H1	2.11	0.48
1:6:538:A:H2	1:6:540:G:N2	2.11	0.48
1:6:619:A:H5'	1:6:620:A:OP2	2.13	0.48
1:6:621:A:N3	1:6:1107:G:H1'	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:830:U:C2'	1:6:831:U:H5'	2.42	0.48
1:6:938:G:N2	1:6:941:A:OP2	2.39	0.48
1:6:1796:C:H5	28:d6:6:ALA:HB3	1.79	0.48
5:s3:17:PHE:HE1	5:s3:79:TYR:HE2	1.62	0.48
10:s8:62:THR:HA	10:s8:76:THR:O	2.12	0.48
18:c6:60:PHE:C	18:c6:62:ASN:H	2.22	0.48
20:c8:18:LEU:HD23	20:c8:35:ILE:HD13	1.95	0.48
36:5:441:U:H2'	36:5:442:G:C8	2.48	0.48
36:5:644:G:OP1	36:5:1142:G:O2'	2.29	0.48
36:5:697:A:H2'	36:5:698:U:O4'	2.12	0.48
36:5:767:U:H1'	36:5:768:C:H6	1.78	0.48
36:5:2252:A:H3'	36:5:2253:G:H5''	1.95	0.48
36:5:2659:G:H4'	36:5:2751:G:O2'	2.13	0.48
36:5:3096:C:H2'	36:5:3097:C:C6	2.47	0.48
86:5:3966:OHX:N1	86:5:4238:OHX:N2	2.61	0.48
39:l2:130:SER:OG	39:l2:174:ARG:NH2	2.33	0.48
41:l4:342:LYS:HD3	44:l7:56:GLU:OE2	2.13	0.48
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.48	0.48
42:l5:86:TYR:CE1	42:l5:247:ILE:HA	2.49	0.48
42:l5:143:LYS:HA	42:l5:172:TYR:HB3	1.95	0.48
43:l6:93:VAL:HG12	43:l6:93:VAL:O	2.14	0.48
47:m0:210:ILE:HD13	47:m0:217:PHE:CE1	2.49	0.48
48:m1:40:LEU:HD12	48:m1:40:LEU:O	2.14	0.48
52:m6:56:ASP:O	52:m6:59:ARG:HG2	2.13	0.48
54:m8:104:LEU:O	54:m8:105:ARG:HG3	2.13	0.48
54:m8:157:PRO:HA	54:m8:186:VAL:HG12	1.95	0.48
54:m8:185:LYS:HD3	54:m8:186:VAL:HG23	1.95	0.48
58:n2:58:GLU:HG2	58:n2:59:ASP:N	2.27	0.48
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	1.96	0.48
66:o0:54:SER:HA	66:o0:57:GLU:OE2	2.14	0.48
69:o3:51:TYR:CE2	69:o3:53:TYR:HB3	2.48	0.48
70:o4:54:ILE:HD11	70:o4:78:GLY:HA2	1.95	0.48
71:o5:42:PRO:O	71:o5:44:ILE:N	2.46	0.48
81:p0:10:GLU:O	81:p0:13:ALA:HB3	2.13	0.48
1:2:772:G:H21	1:2:774:A:H1'	1.78	0.48
1:2:794:U:O2'	1:2:795:U:C2	2.66	0.48
1:2:992:A:C2	1:2:1012:U:N3	2.75	0.48
1:2:1039:A:H5'	1:2:1082:C:H5	1.77	0.48
1:2:1290:U:P	4:S2:95:ARG:HH12	2.37	0.48
1:2:1643:U:H5'	77:Q1:9:ARG:NH2	2.28	0.48
6:S4:45:ILE:O	6:S4:45:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:48:PHE:HD1	7:S5:64:VAL:HG13	1.78	0.48
7:S5:73:THR:HG23	18:C6:114:ARG:CD	2.43	0.48
8:S6:182:GLN:NE2	8:S6:185:GLN:OE1	2.47	0.48
11:S9:112:GLN:HG3	11:S9:148:VAL:HG21	1.94	0.48
12:C0:8:ARG:HG3	12:C0:12:HIS:HD1	1.77	0.48
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.96	0.48
24:D2:82:LYS:C	24:D2:84:GLY:H	2.20	0.48
25:D3:86:PHE:O	25:D3:88:PRO:HD3	2.13	0.48
26:D4:62:THR:HA	26:D4:69:SER:HA	1.94	0.48
33:E1:83:LYS:O	33:E1:84:VAL:HG12	2.13	0.48
36:1:47:C:N4	36:1:48:A:C6	2.82	0.48
36:1:864:G:O6	36:1:893:C:H3'	2.13	0.48
36:1:887:G:H2'	36:1:888:A:C8	2.48	0.48
36:1:1245:A:C3'	36:1:1246:G:H5''	2.44	0.48
36:1:1307:G:O4'	52:M6:60:LYS:HE3	2.12	0.48
36:1:1486:G:N7	86:1:4152:OHX:N2	2.61	0.48
36:1:1638:A:N3	36:1:1709:C:H1'	2.28	0.48
36:1:1815:U:O2'	36:1:1816:A:OP2	2.27	0.48
36:1:1941:C:H1'	36:1:3362:A:C8	2.48	0.48
36:1:2298:U:O4	36:1:2923:U:H5	1.96	0.48
36:1:2390:A:C5	36:1:2391:G:C8	3.01	0.48
36:1:3009:G:C5	36:1:3010:U:C5	3.01	0.48
86:1:3965:OHX:N5	86:1:4153:OHX:N2	2.61	0.48
37:3:76:A:O2'	56:N0:50:LYS:NZ	2.47	0.48
37:3:121:U:C2	42:L5:268:GLU:HB3	2.48	0.48
38:4:85:G:H3'	38:4:85:G:C8	2.48	0.48
38:4:107:G:C2	38:4:116:G:C5	3.01	0.48
42:L5:102:GLY:O	42:L5:106:ALA:N	2.37	0.48
47:M0:76:MET:O	47:M0:80:SER:N	2.42	0.48
49:M3:177:LYS:HA	72:O6:11:LEU:HD13	1.96	0.48
52:M6:3:VAL:HG13	52:M6:4:GLU:H	1.79	0.48
52:M6:47:PHE:HA	52:M6:136:THR:OG1	2.12	0.48
59:N3:79:VAL:HB	59:N3:118:VAL:HG13	1.95	0.48
74:O8:59:ALA:O	74:O8:62:ALA:HB3	2.12	0.48
1:6:119:A:H1'	1:6:397:A:C5	2.48	0.48
1:6:139:C:H4'	1:6:140:A:O5'	2.12	0.48
1:6:1050:G:N2	1:6:1068:C:O2	2.46	0.48
1:6:1228:G:N7	14:c2:67:THR:HB	2.29	0.48
1:6:1666:U:C4	1:6:1736:G:C2	3.02	0.48
2:s0:178:ALA:HA	2:s0:181:VAL:HG22	1.95	0.48
3:s1:137:ILE:HD13	3:s1:172:LEU:HD22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:138:VAL:HA	5:s3:183:GLY:O	2.13	0.48
7:s5:73:THR:C	7:s5:75:GLY:N	2.68	0.48
7:s5:77:TYR:HA	7:s5:83:ARG:HG2	1.96	0.48
21:c9:79:LEU:O	21:c9:79:LEU:HG	2.12	0.48
36:5:732:C:H2'	36:5:733:G:O4'	2.13	0.48
36:5:1385:C:O2	43:l6:2:SER:N	2.46	0.48
36:5:1554:U:H4'	36:5:1555:U:OP1	2.13	0.48
36:5:2157:G:N2	36:5:2177:G:O2'	2.47	0.48
36:5:3174:A:C2'	36:5:3175:U:H5'	2.42	0.48
40:l3:226:PHE:CE1	40:l3:268:GLY:HA2	2.48	0.48
41:l4:311:HIS:NE2	41:l4:314:LYS:HA	2.27	0.48
42:l5:8:LYS:HG2	42:l5:12:TYR:CE2	2.48	0.48
42:l5:212:ALA:HB2	42:l5:219:PHE:CG	2.49	0.48
52:m6:48:PHE:O	52:m6:52:LEU:HG	2.14	0.48
53:m7:95:LEU:HD23	53:m7:148:LEU:CD1	2.43	0.48
1:2:32:U:OP1	25:D3:139:LYS:NZ	2.42	0.48
1:2:544:A:H5''	1:2:545:A:OP2	2.12	0.48
1:2:1183:A:C6	1:2:1184:A:N1	2.82	0.48
2:S0:52:LYS:HA	23:D1:82:VAL:HG22	1.93	0.48
3:S1:61:LEU:C	3:S1:62:LYS:HZ3	2.15	0.48
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	1.95	0.48
4:S2:141:ARG:HG2	23:D1:10:GLU:OE1	2.13	0.48
6:S4:179:LYS:N	6:S4:194:THR:O	2.46	0.48
7:S5:177:ILE:HA	7:S5:180:ARG:NH1	2.28	0.48
17:C5:22:LEU:HD13	17:C5:26:LEU:HD11	1.96	0.48
18:C6:47:LYS:HZ3	18:C6:114:ARG:HE	1.59	0.48
19:C7:20:TYR:CZ	19:C7:38:ILE:HG13	2.48	0.48
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.48	0.48
28:D6:87:ARG:NH2	28:D6:92:ARG:O	2.47	0.48
29:D7:14:SER:HA	29:D7:17:ARG:HE	1.79	0.48
31:D9:48:ASN:HD22	31:D9:53:ASN:HD21	1.62	0.48
34:SR:199:ILE:HA	34:SR:215:GLY:HA3	1.95	0.48
34:SR:228:LYS:O	34:SR:229:LYS:HG3	2.12	0.48
36:1:856:G:C6	36:1:857:G:N1	2.81	0.48
36:1:1443:G:O6	86:1:3970:OHX:N3	2.46	0.48
36:1:1633:C:H2'	36:1:1634:G:C8	2.48	0.48
36:1:2405:C:O3'	88:1:4211:BLS:H82	2.13	0.48
36:1:2763:U:C5'	54:M8:176:ARG:HG3	2.42	0.48
36:1:2948:C:O2'	40:L3:242:THR:HA	2.13	0.48
36:1:3227:A:C6	36:1:3228:C:N3	2.81	0.48
36:1:3384:U:H2'	36:1:3385:U:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:119:GLY:O	46:L9:120:ASP:C	2.55	0.48
46:L9:134:ILE:CD1	46:L9:146:LEU:HD23	2.44	0.48
50:M4:71:ALA:O	50:M4:84:LYS:HD3	2.14	0.48
57:N1:31:LEU:HD23	57:N1:31:LEU:HA	1.61	0.48
59:N3:17:LEU:HD11	59:N3:98:ASN:HB3	1.95	0.48
60:N4:6:ASP:HA	60:N4:30:ARG:O	2.14	0.48
1:6:53:G:H2'	1:6:54:C:C6	2.49	0.48
1:6:163:G:H4'	8:s6:53:SER:OG	2.13	0.48
1:6:348:U:O4	86:6:2163:OHX:N4	2.46	0.48
1:6:950:C:H2'	1:6:951:A:C8	2.49	0.48
1:6:1136:U:O2'	1:6:1137:A:H5'	2.14	0.48
1:6:1211:A:N6	1:6:1452:U:H3	2.08	0.48
3:s1:117:TRP:HA	3:s1:155:TYR:HE1	1.79	0.48
12:c0:14:TYR:CE1	12:c0:18:GLU:HG3	2.49	0.48
13:c1:130:PRO:HG3	13:c1:136:ARG:HD2	1.96	0.48
17:c5:34:VAL:HG11	17:c5:45:PHE:CE1	2.48	0.48
20:c8:65:GLU:HG2	20:c8:68:ARG:NH2	2.29	0.48
21:c9:35:ASP:OD2	21:c9:36:ILE:HG23	2.13	0.48
34:sR:165:ASP:O	34:sR:166:SER:HB2	2.13	0.48
34:sR:274:LEU:O	34:sR:276:PRO:HD3	2.12	0.48
36:5:229:G:C2	36:5:230:U:C2	3.02	0.48
36:5:419:G:N2	38:8:5:U:C2	2.82	0.48
36:5:1386:A:OP1	68:o2:80:LYS:HD3	2.13	0.48
36:5:2533:G:H2'	36:5:2534:G:C8	2.48	0.48
36:5:2698:G:H2'	36:5:2699:G:C8	2.47	0.48
36:5:3356:G:C6	36:5:3357:U:C4	3.02	0.48
37:7:3:U:H2'	37:7:4:U:H6	1.78	0.48
41:l4:125:ALA:HB1	41:l4:238:LEU:HB3	1.95	0.48
45:l8:68:ARG:O	45:l8:69:LEU:HB2	2.12	0.48
47:m0:55:ASN:ND2	47:m0:162:GLN:OE1	2.45	0.48
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.14	0.48
50:m4:32:LEU:HD11	50:m4:94:TRP:CG	2.48	0.48
53:m7:2:ALA:O	53:m7:3:ARG:HB2	2.14	0.48
62:n6:71:SER:N	62:n6:81:GLN:O	2.46	0.48
62:n6:74:TYR:CE2	62:n6:77:LYS:HD2	2.47	0.48
78:q2:77:CYS:SG	78:q2:79:THR:HG22	2.54	0.48
79:q3:13:LYS:NZ	79:q3:30:GLU:OE1	2.39	0.48
1:2:400:A:H8	10:S8:24:LYS:O	1.97	0.48
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.48	0.48
2:S0:88:LYS:O	2:S0:202:TYR:OH	2.28	0.48
11:S9:44:ARG:O	11:S9:48:GLN:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.12	0.48
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.13	0.48
26:D4:9:THR:HG21	26:D4:48:TYR:OH	2.13	0.48
34:SR:248:ASN:ND2	34:SR:297:ASP:O	2.45	0.48
36:1:75:G:H5''	49:M3:58:VAL:CG2	2.42	0.48
36:1:594:U:H2'	36:1:609:G:O6	2.13	0.48
36:1:657:A:OP1	86:1:4167:OHX:N5	2.46	0.48
36:1:708:G:H5'	36:1:709:A:OP2	2.14	0.48
36:1:1237:G:H2'	36:1:1237:G:N3	2.27	0.48
36:1:1449:A:C2	36:1:2356:A:C4	3.01	0.48
36:1:1770:G:H5'	36:1:1771:C:OP2	2.13	0.48
36:1:2902:A:H2'	36:1:2903:A:O4'	2.13	0.48
36:1:3006:A:H2'	36:1:3007:U:O4'	2.14	0.48
38:4:26:U:H5'	41:L4:53:SER:HB2	1.96	0.48
39:L2:113:VAL:HG12	39:L2:166:ILE:HA	1.95	0.48
44:L7:137:GLY:HA3	44:L7:236:ILE:HB	1.95	0.48
45:L8:251:LYS:O	45:L8:255:SER:HB2	2.14	0.48
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.46	0.48
52:M6:65:ASN:HB3	52:M6:68:ARG:HD3	1.96	0.48
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	1.96	0.48
57:N1:75:ILE:HD13	57:N1:75:ILE:O	2.14	0.48
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.41	0.48
64:N8:91:LEU:HD12	64:N8:121:VAL:HG21	1.96	0.48
66:O0:98:SER:OG	66:O0:100:ILE:HG13	2.13	0.48
72:O6:74:LYS:HG3	72:O6:80:PHE:HA	1.95	0.48
72:O6:95:ALA:O	72:O6:99:ARG:HB2	2.13	0.48
1:6:28:A:H2'	1:6:29:U:O4'	2.13	0.48
1:6:43:A:H5''	1:6:437:A:N1	2.28	0.48
1:6:192:U:O2'	1:6:193:U:O5'	2.28	0.48
1:6:327:U:H4'	13:c1:14:GLN:OE1	2.13	0.48
1:6:386:G:C6	1:6:387:A:N6	2.82	0.48
1:6:609:U:H5	25:d3:22:ASN:O	1.97	0.48
1:6:717:C:H42	1:6:720:G:H1	1.62	0.48
1:6:1368:G:C5	1:6:1369:U:C5	3.02	0.48
1:6:1699:G:C2	1:6:1701:A:H5''	2.49	0.48
3:s1:227:ALA:HA	3:s1:230:ALA:HB3	1.96	0.48
4:s2:169:LEU:HD11	4:s2:188:LEU:HD11	1.95	0.48
6:s4:173:ILE:HD11	6:s4:235:TYR:HD1	1.78	0.48
11:s9:31:ALA:HA	11:s9:36:LEU:HD12	1.94	0.48
14:c2:93:ASP:HB3	14:c2:96:GLN:HB2	1.96	0.48
17:c5:108:ARG:NH2	20:c8:119:ILE:HD12	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:14:ILE:HD11	24:d2:27:ILE:HD11	1.94	0.48
36:5:73:C:C2	49:m3:59:ARG:HD3	2.49	0.48
36:5:198:A:N3	36:5:218:G:O2'	2.44	0.48
36:5:1418:A:H4'	36:5:1419:A:OP1	2.14	0.48
36:5:1631:C:H5''	36:5:1632:A:H5''	1.95	0.48
86:5:3966:OHX:N4	86:5:4238:OHX:N2	2.61	0.48
38:8:141:C:H1'	51:m5:112:ASN:OD1	2.13	0.48
41:l4:269:SER:OG	41:l4:271:LYS:HG3	2.13	0.48
41:l4:330:TYR:O	41:l4:333:VAL:N	2.46	0.48
44:l7:223:PHE:C	44:l7:225:GLN:H	2.22	0.48
47:m0:75:TYR:HD1	47:m0:151:GLY:HA2	1.78	0.48
49:m3:67:ARG:NH2	64:n8:108:GLY:HA2	2.28	0.48
52:m6:125:ARG:HD2	52:m6:135:TYR:CD2	2.49	0.48
53:m7:109:ALA:HA	53:m7:112:LEU:HD22	1.96	0.48
58:n2:90:ARG:O	58:n2:91:ASP:HB2	2.12	0.48
60:n4:96:LEU:HD12	60:n4:101:ARG:HG3	1.95	0.48
68:o2:12:LYS:HD3	68:o2:57:TYR:O	2.13	0.48
78:q2:8:ARG:O	78:q2:23:HIS:N	2.44	0.48
1:2:136:C:H4'	1:2:137:U:OP1	2.12	0.48
1:2:1153:G:H2'	1:2:1154:G:O4'	2.14	0.48
1:2:1238:A:H2'	1:2:1239:U:O4'	2.13	0.48
1:2:1287:A:H4'	1:2:1288:G:OP1	2.13	0.48
1:2:1335:U:H3	1:2:1416:G:H1	1.62	0.48
1:2:1794:A:H1'	28:D6:79:ILE:HD12	1.94	0.48
4:S2:245:ASP:OD1	4:S2:245:ASP:N	2.45	0.48
6:S4:29:PRO:O	6:S4:31:PRO:HD3	2.13	0.48
7:S5:82:PHE:CZ	30:D8:49:ARG:HB3	2.48	0.48
20:C8:107:SER:O	20:C8:110:ARG:HB2	2.13	0.48
34:SR:115:ILE:HG13	34:SR:116:ASP:N	2.29	0.48
35:SM:25:ILE:HG13	37:3:39:C:H5'	1.95	0.48
36:1:620:U:C4	36:1:622:A:N1	2.81	0.48
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.44	0.48
36:1:968:G:H2'	36:1:969:C:H6	1.76	0.48
36:1:1781:C:H2'	36:1:1782:U:C6	2.48	0.48
36:1:1852:G:N7	86:1:3971:OHX:N3	2.62	0.48
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.14	0.48
42:L5:153:THR:HG23	42:L5:160:PHE:CZ	2.49	0.48
46:L9:13:PRO:HG2	46:L9:16:VAL:HG13	1.96	0.48
46:L9:47:LYS:HZ2	50:M4:5:SER:CB	2.26	0.48
46:L9:134:ILE:HD12	46:L9:146:LEU:HD23	1.95	0.48
50:M4:113:THR:HB	50:M4:116:GLU:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.29	0.48
59:N3:86:ARG:HD2	59:N3:92:PHE:CZ	2.49	0.48
59:N3:94:TYR:CZ	60:N4:21:PHE:HB2	2.49	0.48
1:6:219:A:N6	1:6:843:U:C2	2.82	0.48
1:6:256:A:H2'	1:6:257:A:O4'	2.13	0.48
1:6:312:A:C5	1:6:314:C:C4	3.02	0.48
1:6:450:U:O2'	1:6:451:A:H5'	2.14	0.48
1:6:454:U:N1	6:s4:66:MET:HG3	2.28	0.48
1:6:862:A:C2	1:6:963:A:C4	3.02	0.48
1:6:1597:A:H2'	1:6:1598:U:O4'	2.13	0.48
3:s1:158:SER:HA	3:s1:161:ILE:HD12	1.93	0.48
5:s3:65:ARG:O	5:s3:69:LEU:HB2	2.13	0.48
5:s3:116:ARG:CZ	5:s3:116:ARG:HB2	2.43	0.48
7:s5:112:ARG:HD3	27:d5:95:HIS:NE2	2.28	0.48
10:s8:156:VAL:O	10:s8:159:GLN:HB2	2.13	0.48
14:c2:41:LEU:O	14:c2:43:ARG:HG2	2.13	0.48
18:c6:131:GLY:HA3	18:c6:136:SER:O	2.14	0.48
22:d0:68:ARG:NH2	22:d0:70:THR:OG1	2.47	0.48
23:d1:3:ASN:CG	23:d1:7:GLN:HB3	2.39	0.48
80:e0:40:TYR:HD1	80:e0:41:THR:HG23	1.79	0.48
33:e1:117:LEU:HD22	33:e1:118:ARG:NH1	2.29	0.48
34:sR:68:VAL:HA	34:sR:84:SER:HB2	1.96	0.48
36:5:269:G:H5'	51:m5:120:TRP:CE3	2.48	0.48
36:5:954:U:H1'	65:n9:12:GLN:NE2	2.29	0.48
36:5:2395:G:H5''	40:l3:255:TRP:CD1	2.48	0.48
36:5:2621:G:H2'	36:5:2622:C:H6	1.79	0.48
36:5:2656:A:O5'	78:q2:98:LYS:HD2	2.14	0.48
86:5:3995:OHX:N5	44:l7:217:PRO:HA	2.29	0.48
41:l4:169:LEU:HD22	41:l4:249:ILE:HD12	1.96	0.48
45:l8:81:THR:HG21	45:l8:181:LYS:NZ	2.29	0.48
45:l8:160:ILE:O	45:l8:164:VAL:HG13	2.14	0.48
46:l9:86:TYR:CE1	46:l9:151:VAL:HG22	2.49	0.48
52:m6:8:VAL:HG22	52:m6:34:VAL:HG13	1.95	0.48
55:m9:90:PRO:HG2	55:m9:93:VAL:HG23	1.95	0.48
56:n0:80:ARG:HB2	56:n0:124:LEU:HD11	1.96	0.48
57:n1:8:ARG:HH11	57:n1:15:PHE:HD1	1.61	0.48
67:o1:16:LEU:HD12	67:o1:16:LEU:HA	1.61	0.48
69:o3:45:LEU:HA	69:o3:71:VAL:HG12	1.95	0.48
1:2:387:A:H8	1:2:387:A:OP2	1.96	0.48
1:2:1107:G:O2'	1:2:1108:G:H5'	2.14	0.48
2:S0:57:LEU:HG	2:S0:177:LEU:HD23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:127:VAL:HG22	3:S1:128:LYS:H	1.79	0.48
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.14	0.48
7:S5:156:ARG:HB2	7:S5:156:ARG:NH1	2.28	0.48
9:S7:114:ARG:C	9:S7:116:ARG:H	2.22	0.48
12:C0:56:LYS:CG	12:C0:67:THR:HB	2.43	0.48
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.57	0.48
28:D6:92:ARG:C	28:D6:94:ASN:H	2.22	0.48
30:D8:9:LEU:HD12	30:D8:34:GLU:OE2	2.13	0.48
34:SR:172:ALA:HB2	34:SR:202:LEU:HD22	1.96	0.48
34:SR:294:TRP:CZ3	34:SR:301:LEU:HB2	2.49	0.48
35:SM:48:ARG:HE	36:1:1017:C:H5'	1.78	0.48
35:SM:135:ALA:C	35:SM:137:GLU:H	2.21	0.48
36:1:915:A:C5	36:1:917:A:H1'	2.48	0.48
36:1:962:A:N1	36:1:2814:G:O2'	2.40	0.48
36:1:1094:U:H1'	36:1:1096:U:H2'	1.95	0.48
36:1:2613:U:O2	36:1:2804:A:C8	2.67	0.48
36:1:3019:U:C4	36:1:3020:U:C4	3.02	0.48
37:3:20:A:C2	37:3:21:G:C4	3.02	0.48
39:L2:30:ARG:HA	39:L2:74:GLU:OE2	2.13	0.48
41:L4:334:PHE:CE1	41:L4:339:LEU:HB3	2.49	0.48
42:L5:41:LYS:HG2	57:N1:93:VAL:HG11	1.96	0.48
42:L5:122:VAL:HG23	42:L5:125:VAL:H	1.79	0.48
43:L6:18:LEU:N	43:L6:18:LEU:HD22	2.28	0.48
46:L9:49:ASN:C	46:L9:49:ASN:HD22	2.21	0.48
48:M1:85:LYS:HB2	48:M1:85:LYS:NZ	2.29	0.48
51:M5:150:TRP:CZ3	51:M5:156:HIS:CD2	3.01	0.48
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.13	0.48
56:N0:23:LYS:HE3	56:N0:23:LYS:HB3	1.72	0.48
1:6:550:A:OP2	86:6:2049:OHX:N2	2.47	0.48
1:6:1202:A:H2'	1:6:1203:A:H5''	1.94	0.48
2:s0:168:HIS:O	2:s0:172:LEU:HB2	2.13	0.48
3:s1:160:HIS:O	3:s1:164:ILE:HG13	2.14	0.48
6:s4:49:ARG:HG3	6:s4:50:ASN:N	2.27	0.48
7:s5:77:TYR:HD2	7:s5:83:ARG:HG3	1.78	0.48
10:s8:171:SER:HB3	10:s8:180:ASP:HB2	1.95	0.48
23:d1:55:LEU:HD13	23:d1:65:SER:OG	2.13	0.48
25:d3:24:TRP:CE3	25:d3:30:LYS:HG3	2.49	0.48
25:d3:89:ASN:HB2	25:d3:92:CYS:SG	2.54	0.48
26:d4:121:THR:HG22	26:d4:123:LYS:HB2	1.96	0.48
27:d5:38:HIS:HA	27:d5:70:LYS:HG2	1.95	0.48
29:d7:29:ARG:HG3	29:d7:29:ARG:HH11	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:287:G:H2'	36:5:288:C:H6	1.79	0.48
36:5:760:G:H1'	36:5:770:G:H22	1.78	0.48
36:5:1072:G:H2'	36:5:1073:U:H6	1.78	0.48
36:5:1764:U:H2'	36:5:1765:U:O4'	2.13	0.48
36:5:1841:A:H5'	36:5:1849:C:OP1	2.14	0.48
36:5:1940:G:OP1	55:m9:80:LYS:HE2	2.14	0.48
38:8:74:U:O2	86:8:219:OHX:N5	2.47	0.48
38:8:78:G:H2'	38:8:79:A:O4'	2.14	0.48
43:l6:42:LEU:HD11	43:l6:52:VAL:HG21	1.95	0.48
45:l8:41:GLN:CG	45:l8:44:ARG:HH12	2.26	0.48
52:m6:57:PHE:CE2	52:m6:72:HIS:HD2	2.32	0.48
56:n0:24:LEU:HD22	56:n0:59:VAL:HG21	1.95	0.48
56:n0:41:TYR:O	56:n0:45:LEU:HB2	2.14	0.48
56:n0:152:LEU:HD23	56:n0:152:LEU:HA	1.63	0.48
57:n1:75:ILE:HD13	57:n1:88:ARG:HD2	1.95	0.48
59:n3:81:GLN:HE21	59:n3:85:TRP:HE3	1.62	0.48
60:n4:116:LYS:C	60:n4:118:ALA:H	2.22	0.48
60:n4:120:LYS:HA	60:n4:123:ARG:HH11	1.78	0.48
63:n7:84:ARG:N	66:o0:58:TYR:OH	2.39	0.48
74:o8:4:GLU:HG2	74:o8:5:ILE:H	1.78	0.48
1:2:28:A:H2'	1:2:29:U:H6	1.76	0.48
1:2:191:C:O2'	1:2:192:U:O5'	2.27	0.48
1:2:447:U:O3'	6:S4:11:ARG:NH2	2.37	0.48
1:2:704:C:H3'	1:2:704:C:OP2	2.14	0.48
1:2:1535:U:O4	7:S5:186:ASN:N	2.47	0.48
86:2:2043:OHX:N2	86:2:2098:OHX:N6	2.62	0.48
2:S0:110:TYR:O	2:S0:112:THR:N	2.47	0.48
2:S0:167:LYS:HG2	2:S0:168:HIS:CE1	2.48	0.48
3:S1:195:LYS:O	3:S1:199:ASN:N	2.39	0.48
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.22	0.48
5:S3:142:LEU:HD13	5:S3:182:LEU:HD11	1.96	0.48
5:S3:156:PHE:C	5:S3:157:LEU:HD12	2.39	0.48
7:S5:35:GLN:C	7:S5:37:GLN:H	2.22	0.48
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.49	0.48
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.47	0.48
29:D7:50:ALA:HB2	29:D7:71:ALA:HB2	1.96	0.48
34:SR:109:ASP:C	34:SR:126:SER:HG	2.14	0.48
34:SR:128:ASP:OD1	34:SR:128:ASP:N	2.42	0.48
36:1:348:A:H1'	36:1:352:A:N3	2.28	0.48
36:1:872:U:H2'	36:1:873:C:C6	2.48	0.48
36:1:1307:G:H1'	36:1:1308:A:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1764:U:H5''	55:M9:43:LYS:NZ	2.29	0.48
36:1:2442:G:H22	36:1:2505:U:H3	1.62	0.48
36:1:2986:U:H2'	36:1:2987:A:C8	2.49	0.48
36:1:3355:U:H3'	36:1:3356:G:H5''	1.96	0.48
38:4:21:C:OP1	41:L4:193:LYS:HD2	2.14	0.48
38:4:36:G:C8	71:O5:86:ARG:HD2	2.49	0.48
40:L3:140:ASP:CG	40:L3:141:GLY:H	2.22	0.48
40:L3:169:THR:HG23	40:L3:314:TYR:OH	2.13	0.48
47:M0:191:LYS:HB3	47:M0:213:PHE:CE2	2.49	0.48
55:M9:25:ASP:OD1	55:M9:25:ASP:N	2.40	0.48
63:N7:46:ILE:O	63:N7:46:ILE:HG13	2.13	0.48
1:6:221:A:C2'	1:6:222:A:H5'	2.44	0.48
1:6:373:G:H2'	1:6:374:U:H6	1.78	0.48
1:6:541:A:OP1	1:6:541:A:H8	1.96	0.48
1:6:855:A:C2	1:6:857:U:H1'	2.49	0.48
1:6:1091:A:H4'	1:6:1092:A:O5'	2.14	0.48
1:6:1398:U:H4'	1:6:1399:C:OP2	2.14	0.48
1:6:1640:C:O5'	1:6:1640:C:H6	1.97	0.48
2:s0:147:THR:HB	2:s0:151:SER:HB2	1.95	0.48
6:s4:36:HIS:HD2	6:s4:83:PRO:O	1.97	0.48
7:s5:41:LYS:HB3	7:s5:41:LYS:HE2	1.51	0.48
7:s5:84:LYS:HG2	7:s5:92:ARG:CZ	2.44	0.48
7:s5:222:LYS:HA	7:s5:225:ARG:HD2	1.95	0.48
11:s9:127:VAL:O	11:s9:131:GLN:HB2	2.14	0.48
13:c1:94:ILE:HD13	25:d3:16:ARG:HD3	1.96	0.48
19:c7:16:LEU:HD12	19:c7:54:THR:HG21	1.95	0.48
26:d4:118:ILE:HD13	26:d4:125:LEU:HD22	1.94	0.48
27:d5:59:TYR:HE1	27:d5:100:ILE:HG23	1.79	0.48
34:sR:95:ALA:C	34:sR:97:GLY:H	2.22	0.48
36:5:120:G:C5	45:l8:128:LYS:HG3	2.49	0.48
36:5:1080:A:P	42:l5:140:ARG:HH21	2.37	0.48
36:5:1116:G:N2	36:5:2817:A:O4'	2.47	0.48
36:5:1179:A:H5''	36:5:1180:A:OP2	2.13	0.48
36:5:1653:G:H4'	70:o4:43:LYS:O	2.13	0.48
36:5:2278:C:OP1	86:5:4085:OHX:N6	2.47	0.48
36:5:2703:A:OP2	42:l5:23:ARG:NH2	2.33	0.48
36:5:2965:U:C5	36:5:2966:G:C5	3.02	0.48
36:5:3200:G:C6	36:5:3201:C:C4	3.02	0.48
86:5:3971:OHX:N2	86:5:4193:OHX:N5	2.62	0.48
38:8:113:U:C4	75:o9:7:PHE:CE2	3.01	0.48
39:l2:155:LYS:HE2	39:l2:253:GLN:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:204:MET:HB3	39:l2:208:ASP:HB2	1.96	0.48
40:l3:361:THR:HG23	40:l3:371:GLN:O	2.14	0.48
42:l5:148:ILE:HA	42:l5:148:ILE:HD12	1.55	0.48
43:l6:88:SER:N	43:l6:176:PHE:O	2.42	0.48
44:l7:38:LYS:HD2	44:l7:38:LYS:HA	1.54	0.48
48:m1:21:ILE:HG12	48:m1:125:MET:HB3	1.95	0.48
49:m3:74:GLY:O	49:m3:101:ARG:NH1	2.47	0.48
51:m5:16:SER:O	51:m5:20:ARG:HG2	2.14	0.48
54:m8:80:THR:O	54:m8:137:THR:HA	2.14	0.48
55:m9:96:ILE:HG22	55:m9:100:ARG:HD2	1.95	0.48
60:n4:120:LYS:CA	60:n4:123:ARG:HH11	2.26	0.48
69:o3:24:ASN:HD21	69:o3:27:VAL:HG23	1.77	0.48
70:o4:74:ARG:HG2	70:o4:75:ALA:H	1.79	0.48
74:o8:28:ASN:ND2	74:o8:40:GLN:OE1	2.27	0.48
1:2:111:U:C2	1:2:304:U:C4	3.01	0.47
1:2:1662:G:O6	86:2:2040:OHX:N3	2.47	0.47
1:2:1752:U:OP2	86:2:2057:OHX:N2	2.46	0.47
1:2:1795:U:H3'	28:D6:5:ARG:NH1	2.29	0.47
3:S1:184:LEU:HA	3:S1:187:LYS:HB2	1.96	0.47
4:S2:42:GLY:HA2	4:S2:68:ILE:HD11	1.96	0.47
4:S2:178:ILE:HG21	4:S2:185:LYS:HA	1.96	0.47
6:S4:35:PRO:HD2	6:S4:83:PRO:HG2	1.95	0.47
7:S5:57:SER:HB3	30:D8:53:ILE:HB	1.95	0.47
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.14	0.47
15:C3:23:PRO:C	15:C3:25:TRP:H	2.22	0.47
18:C6:69:VAL:HG11	18:C6:77:GLN:HB3	1.96	0.47
28:D6:44:ILE:HG12	28:D6:65:PRO:HD2	1.95	0.47
34:SR:89:LEU:O	34:SR:103:PHE:HD2	1.97	0.47
36:1:642:U:H2'	36:1:644:G:OP2	2.14	0.47
36:1:1103:A:N6	36:1:1363:A:O2'	2.47	0.47
36:1:1166:G:O6	86:1:3857:OHX:N4	2.47	0.47
36:1:1608:C:H5''	61:N5:111:ASN:HD22	1.79	0.47
36:1:1847:A:O2'	36:1:1848:G:H5''	2.14	0.47
36:1:1901:A:O2'	59:N3:49:LEU:HD21	2.14	0.47
36:1:2115:G:H22	36:1:2120:A:H1'	1.79	0.47
36:1:2854:U:P	47:M0:3:ARG:HH22	2.37	0.47
36:1:3118:C:H4'	76:Q0:106:ARG:HH12	1.79	0.47
86:1:4027:OHX:N4	86:1:4040:OHX:N3	2.62	0.47
86:1:4050:OHX:N6	86:1:4160:OHX:N3	2.62	0.47
37:3:92:A:C4	37:3:93:C:H1'	2.49	0.47
37:3:115:G:H2'	37:3:116:C:H6	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:214:MET:HG3	40:L3:350:ALA:HB1	1.96	0.47
40:L3:221:THR:HG22	40:L3:222:LYS:O	2.14	0.47
40:L3:255:TRP:HD1	40:L3:255:TRP:O	1.95	0.47
44:L7:25:GLN:HG2	44:L7:29:GLU:HB2	1.94	0.47
48:M1:8:PRO:HD2	48:M1:10:ARG:HG3	1.96	0.47
48:M1:30:LEU:HD21	48:M1:66:ALA:HA	1.96	0.47
48:M1:109:HIS:HD2	48:M1:114:ILE:HG21	1.79	0.47
51:M5:49:ARG:HH11	51:M5:49:ARG:HB2	1.78	0.47
52:M6:147:TRP:NE1	52:M6:149:TYR:HB2	2.29	0.47
67:O1:36:ILE:HD13	67:O1:59:ILE:HD11	1.94	0.47
70:O4:106:LYS:HD3	70:O4:109:THR:OG1	2.14	0.47
73:O7:52:LYS:HG2	73:O7:56:ARG:CZ	2.43	0.47
1:6:53:G:H1	1:6:427:C:N4	2.11	0.47
1:6:296:U:H2'	1:6:297:U:C6	2.48	0.47
1:6:524:U:C2	1:6:526:A:OP2	2.67	0.47
1:6:1679:G:C6	1:6:1680:G:N1	2.82	0.47
1:6:1708:U:H2'	1:6:1709:C:C6	2.48	0.47
2:s0:110:TYR:C	2:s0:112:THR:H	2.21	0.47
4:s2:65:GLU:HG3	4:s2:68:ILE:HD11	1.96	0.47
4:s2:75:GLY:O	4:s2:77:GLN:N	2.46	0.47
8:s6:7:TYR:CD1	8:s6:125:THR:HA	2.49	0.47
22:d0:95:ALA:HB1	22:d0:99:ILE:HG13	1.95	0.47
36:5:520:U:O4	41:l4:347:THR:OG1	2.31	0.47
36:5:1545:A:N7	51:m5:105:ARG:NH1	2.61	0.47
36:5:1790:G:O6	86:5:4192:OHX:N4	2.47	0.47
36:5:2516:U:O2'	36:5:2595:A:N1	2.31	0.47
36:5:2546:C:H2'	36:5:2547:A:C8	2.49	0.47
36:5:2841:G:OP2	86:5:4133:OHX:N1	2.46	0.47
36:5:2951:G:H21	36:5:2952:G:H1'	1.79	0.47
86:5:3971:OHX:N2	86:5:4193:OHX:N1	2.61	0.47
37:7:64:A:H5'	37:7:65:G:H5''	1.96	0.47
38:8:38:U:C5	71:o5:83:LYS:HA	2.45	0.47
38:8:71:A:H4'	38:8:72:A:O5'	2.13	0.47
39:l2:130:SER:HG	39:l2:174:ARG:HH21	1.58	0.47
40:l3:67:PHE:CE1	59:n3:88:ARG:HB2	2.49	0.47
41:l4:10:SER:N	41:l4:13:GLY:O	2.47	0.47
46:l9:133:THR:HG23	46:l9:147:SER:O	2.14	0.47
46:l9:171:ASP:OD1	46:l9:173:ARG:HD3	2.13	0.47
49:m3:161:ASP:OD1	64:n8:139:ARG:NH1	2.47	0.47
53:m7:151:THR:HG22	53:m7:152:GLU:O	2.14	0.47
55:m9:81:ARG:HD3	55:m9:88:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:n2:20:SER:O	58:n2:24:GLU:HG2	2.14	0.47
61:n5:58:ASP:O	61:n5:62:VAL:HG23	2.14	0.47
63:n7:135:ARG:HB3	63:n7:135:ARG:CZ	2.44	0.47
69:o3:85:PHE:CD1	69:o3:89:LEU:HD21	2.49	0.47
76:q0:96:CYS:SG	76:q0:98:LYS:HB2	2.54	0.47
1:2:72:A:N7	8:S6:169:TYR:OH	2.46	0.47
1:2:226:A:H2'	1:2:227:U:H5'	1.97	0.47
1:2:820:U:H2'	1:2:821:U:H4'	1.96	0.47
2:S0:179:ARG:CD	2:S0:183:ARG:HD2	2.44	0.47
5:S3:34:TYR:OH	5:S3:37:VAL:HG22	2.13	0.47
5:S3:68:GLU:OE2	12:C0:67:THR:HG23	2.14	0.47
10:S8:11:ARG:HD3	10:S8:15:GLY:O	2.13	0.47
12:C0:28:ASN:OD1	12:C0:28:ASN:N	2.46	0.47
14:C2:48:SER:O	14:C2:52:LEU:HD23	2.14	0.47
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.50	0.47
16:C4:126:THR:O	16:C4:126:THR:OG1	2.29	0.47
33:E1:103:LEU:HD23	33:E1:103:LEU:HA	1.67	0.47
36:1:227:G:H2'	36:1:228:U:H6	1.79	0.47
36:1:283:G:O2'	64:N8:59:ARG:NH1	2.46	0.47
36:1:612:U:O5'	43:L6:21:THR:HG21	2.14	0.47
36:1:1307:G:H5'	52:M6:60:LYS:NZ	2.29	0.47
36:1:1633:C:H2'	36:1:1634:G:H8	1.79	0.47
36:1:1950:U:H3	36:1:2096:A:H2	1.62	0.47
36:1:2157:G:N2	36:1:2178:A:OP2	2.42	0.47
36:1:2984:C:H2'	36:1:2985:C:H6	1.78	0.47
36:1:3026:G:O6	86:1:3932:OHX:N4	2.46	0.47
36:1:3356:G:H2'	36:1:3357:U:O4'	2.14	0.47
86:1:4076:OHX:N1	72:O6:28:TYR:O	2.47	0.47
38:4:124:G:OP2	86:4:232:OHX:N4	2.47	0.47
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.13	0.47
41:L4:167:ALA:HA	41:L4:170:LYS:HB2	1.97	0.47
43:L6:6:ALA:HA	68:O2:74:PHE:HE1	1.79	0.47
45:L8:45:ASN:HD21	45:L8:47:SER:HB3	1.79	0.47
45:L8:238:LEU:HD23	45:L8:242:ALA:O	2.14	0.47
50:M4:24:LYS:HG2	50:M4:62:GLN:C	2.39	0.47
51:M5:120:TRP:CZ2	51:M5:122:ASN:HA	2.49	0.47
53:M7:5:GLY:HA3	53:M7:116:HIS:CE1	2.50	0.47
71:O5:18:ALA:O	71:O5:22:VAL:HG23	2.14	0.47
78:Q2:12:CYS:SG	78:Q2:74:CYS:SG	3.12	0.47
1:6:68:A:P	8:s6:171:LYS:HZ3	2.34	0.47
1:6:512:A:OP2	11:s9:172:VAL:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:992:A:O2'	1:6:1785:U:O2	2.32	0.47
1:6:1311:U:O4	86:6:2184:OHX:N4	2.47	0.47
1:6:1388:A:C6	1:6:1412:G:C6	3.03	0.47
1:6:1434:U:H4'	31:d9:24:CYS:HB2	1.95	0.47
1:6:1742:U:C2	1:6:1743:U:C6	3.03	0.47
7:s5:43:PHE:CG	7:s5:44:ASN:N	2.79	0.47
7:s5:136:ALA:O	7:s5:140:THR:OG1	2.25	0.47
22:d0:82:TYR:OH	31:d9:44:ARG:HG2	2.14	0.47
25:d3:37:ALA:HB3	25:d3:38:PHE:CD2	2.49	0.47
28:d6:82:ARG:HB2	28:d6:85:ARG:HE	1.79	0.47
35:sM:35:ALA:HB1	35:sM:37:VAL:HG23	1.95	0.47
36:5:1074:U:O2'	36:5:1075:A:H2'	2.14	0.47
36:5:2107:A:C2	36:5:2108:C:C2	3.02	0.47
36:5:2215:A:H2'	36:5:2216:G:O4'	2.14	0.47
36:5:3170:A:H2'	36:5:3171:U:H5'	1.97	0.47
36:5:3323:A:H8	36:5:3323:A:O5'	1.97	0.47
41:l4:179:LEU:CD2	41:l4:183:LYS:HG3	2.44	0.47
44:l7:112:ASN:O	44:l7:207:LEU:HB2	2.15	0.47
46:l9:122:LYS:HG3	46:l9:123:ILE:N	2.29	0.47
47:m0:170:LYS:HG3	47:m0:175:ASN:C	2.40	0.47
51:m5:68:ARG:HH11	51:m5:128:LYS:HE3	1.79	0.47
53:m7:31:GLU:HG2	53:m7:60:PHE:HA	1.95	0.47
57:n1:34:TYR:CD1	57:n1:98:HIS:CE1	3.02	0.47
61:n5:132:ALA:CA	61:n5:135:ILE:HG22	2.40	0.47
63:n7:80:LEU:HD23	63:n7:80:LEU:HA	1.70	0.47
70:o4:37:LYS:HG3	70:o4:58:ARG:NH2	2.29	0.47
77:q1:9:ARG:HH11	77:q1:9:ARG:CG	2.26	0.47
78:q2:47:GLN:HE22	78:q2:53:GLN:HA	1.80	0.47
1:2:304:U:H2'	1:2:305:C:H6	1.78	0.47
1:2:477:A:H2'	1:2:478:A:C8	2.37	0.47
1:2:517:U:H3	1:2:535:A:H61	1.60	0.47
1:2:864:U:O2	29:D7:21:LEU:HB3	2.15	0.47
1:2:1255:G:O6	14:C2:46:ARG:HD3	2.13	0.47
1:2:1597:A:C8	31:D9:14:TYR:HD2	2.32	0.47
2:S0:32:HIS:HE1	23:D1:87:ARG:HH12	1.62	0.47
5:S3:134:CYS:N	5:S3:157:LEU:HD11	2.29	0.47
6:S4:176:ASP:HB2	6:S4:179:LYS:HE2	1.96	0.47
9:S7:31:SER:HB3	9:S7:32:PRO:HD3	1.96	0.47
17:C5:34:VAL:HG23	17:C5:41:VAL:HG12	1.95	0.47
19:C7:27:ASP:OD1	34:SR:38:ARG:NH1	2.41	0.47
35:SM:30:THR:O	36:1:2666:C:H5''	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:308:A:H5'	36:1:2223:A:O2'	2.14	0.47
36:1:1456:A:C6	67:O1:64:VAL:HG22	2.49	0.47
36:1:1590:G:OP1	70:O4:17:SER:OG	2.31	0.47
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.14	0.47
36:1:1949:G:OP1	55:M9:104:ARG:NH2	2.47	0.47
36:1:2661:G:H1	36:1:2709:C:H42	1.61	0.47
36:1:3310:A:H2'	36:1:3311:C:H5'	1.96	0.47
39:L2:45:VAL:CG1	39:L2:86:GLN:HB3	2.44	0.47
39:L2:209:HIS:CD2	39:L2:210:PRO:N	2.83	0.47
39:L2:242:ARG:HD3	39:L2:246:LEU:HD21	1.96	0.47
41:L4:207:VAL:HG22	41:L4:249:ILE:HB	1.95	0.47
42:L5:187:THR:OG1	42:L5:189:GLU:HB2	2.13	0.47
44:L7:127:LEU:HD22	44:L7:136:TYR:CE2	2.48	0.47
44:L7:224:ILE:HD13	56:N0:39:SER:HB2	1.95	0.47
45:L8:226:TYR:O	45:L8:227:ASP:C	2.56	0.47
47:M0:30:LYS:HA	47:M0:30:LYS:HE3	1.96	0.47
47:M0:162:GLN:HE22	56:N0:85:SER:HB2	1.78	0.47
48:M1:38:GLU:O	48:M1:40:LEU:N	2.41	0.47
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.13	0.47
51:M5:80:THR:HG21	51:M5:86:ASN:O	2.14	0.47
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.49	0.47
56:N0:115:ARG:HD2	56:N0:115:ARG:N	2.28	0.47
61:N5:115:ARG:NH1	61:N5:119:THR:OG1	2.47	0.47
63:N7:76:ASN:OD1	63:N7:77:TYR:N	2.47	0.47
65:N9:25:LYS:HE3	65:N9:25:LYS:N	2.29	0.47
68:O2:64:LYS:O	68:O2:65:PHE:HB2	2.13	0.47
70:O4:102:LYS:HB3	70:O4:103:LYS:HE3	1.96	0.47
71:O5:53:CYS:O	71:O5:57:VAL:HG23	2.14	0.47
1:6:79:C:H1'	8:s6:174:LYS:HG3	1.96	0.47
1:6:789:A:H2	6:s4:248:ILE:HD12	1.80	0.47
1:6:810:G:C2	9:s7:111:LYS:HA	2.49	0.47
1:6:1312:A:H8	1:6:1312:A:O5'	1.97	0.47
1:6:1381:U:H1'	1:6:1516:A:N6	2.29	0.47
1:6:1386:G:OP2	19:c7:44:LYS:NZ	2.39	0.47
9:s7:130:VAL:HG11	9:s7:154:LEU:HD21	1.95	0.47
11:s9:178:ALA:O	11:s9:181:ALA:HB3	2.15	0.47
18:c6:101:SER:O	18:c6:104:GLU:N	2.46	0.47
21:c9:63:ARG:O	21:c9:67:MET:HG3	2.14	0.47
25:d3:51:GLY:HA3	25:d3:76:LEU:HA	1.95	0.47
34:sR:40:LYS:HA	34:sR:68:VAL:HG23	1.97	0.47
36:5:144:A:N6	36:5:145:G:C2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:268:A:N1	36:5:295:A:H5'	2.29	0.47
36:5:597:G:H2'	36:5:598:A:H8	1.78	0.47
36:5:936:A:OP1	64:n8:28:HIS:HD2	1.96	0.47
36:5:1170:A:H8	36:5:1170:A:O5'	1.97	0.47
36:5:1363:A:H2'	36:5:1364:C:C6	2.50	0.47
36:5:1426:C:H5'	41:l4:40:THR:HG21	1.97	0.47
36:5:1491:A:H62	75:o9:2:ALA:HA	1.79	0.47
36:5:2693:C:H1'	36:5:2706:G:H5''	1.95	0.47
36:5:3194:C:H42	36:5:3197:G:H1	1.62	0.47
39:l2:159:SER:C	39:l2:161:ASP:H	2.22	0.47
40:l3:4:ARG:HH11	40:l3:4:ARG:HB2	1.79	0.47
42:l5:45:ASN:O	42:l5:47:PRO:HD3	2.14	0.47
42:l5:289:LYS:O	42:l5:292:ALA:HB3	2.14	0.47
46:l9:162:GLN:HG3	46:l9:163:GLN:N	2.29	0.47
48:m1:110:ILE:O	48:m1:112:LEU:N	2.44	0.47
49:m3:178:LYS:HD3	49:m3:179:PHE:CZ	2.49	0.47
53:m7:127:ARG:O	53:m7:139:TYR:N	2.43	0.47
57:n1:32:LYS:HE3	57:n1:98:HIS:HD2	1.79	0.47
60:n4:6:ASP:HB2	60:n4:11:ALA:HB3	1.96	0.47
63:n7:51:LEU:HB3	63:n7:65:ARG:HD3	1.95	0.47
66:o0:74:ASN:HB2	66:o0:86:ARG:HB2	1.95	0.47
71:o5:4:VAL:CG2	71:o5:9:LEU:HD11	2.44	0.47
1:2:89:G:C6	1:2:90:C:C4	3.03	0.47
1:2:93:A:C6	1:2:398:G:C6	3.02	0.47
1:2:1015:U:H5''	1:2:1016:C:OP2	2.15	0.47
1:2:1393:C:H2'	1:2:1394:G:O4'	2.14	0.47
1:2:1407:U:H2'	1:2:1408:G:O4'	2.15	0.47
1:2:1440:C:H2'	1:2:1441:C:C6	2.50	0.47
2:S0:50:VAL:HA	2:S0:53:THR:OG1	2.14	0.47
3:S1:178:GLY:HA3	3:S1:187:LYS:HZ1	1.79	0.47
5:S3:220:PRO:O	5:S3:221:SER:OG	2.30	0.47
7:S5:99:MET:HG3	7:S5:180:ARG:NH2	2.29	0.47
8:S6:31:ARG:HD2	8:S6:34:GLN:NE2	2.28	0.47
10:S8:184:LEU:HD21	10:S8:192:TYR:CD2	2.50	0.47
15:C3:18:TYR:O	24:D2:56:HIS:HD2	1.97	0.47
20:C8:29:VAL:O	20:C8:43:SER:OG	2.14	0.47
21:C9:14:PHE:CD2	21:C9:15:ILE:HD12	2.49	0.47
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.50	0.47
26:D4:123:LYS:HZ3	26:D4:124:ARG:H	1.62	0.47
28:D6:91:ASP:N	28:D6:91:ASP:OD1	2.48	0.47
36:1:1545:A:N7	51:M5:105:ARG:NH1	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1595:U:O2'	36:1:1596:C:H5''	2.14	0.47
36:1:2232:A:H2'	36:1:2233:A:C8	2.49	0.47
36:1:2255:A:OP1	86:1:3926:OHX:N3	2.48	0.47
41:L4:23:PRO:HB3	41:L4:259:ASP:OD1	2.14	0.47
42:L5:109:THR:O	42:L5:113:LEU:HB2	2.14	0.47
44:L7:240:VAL:C	44:L7:242:SER:H	2.22	0.47
50:M4:50:LYS:HE3	50:M4:86:ALA:HB2	1.95	0.47
50:M4:121:MET:O	50:M4:125:LYS:HG2	2.14	0.47
59:N3:26:ALA:O	59:N3:115:THR:N	2.28	0.47
68:O2:20:HIS:O	68:O2:21:HIS:HB2	2.14	0.47
68:O2:24:ARG:HD3	68:O2:25:TYR:CZ	2.50	0.47
1:6:400:A:O5'	10:s8:25:ARG:HB3	2.15	0.47
1:6:454:U:C4	6:s4:66:MET:HB3	2.49	0.47
1:6:521:A:H2'	1:6:522:U:O4'	2.14	0.47
1:6:1325:A:H2'	1:6:1326:A:H8	1.79	0.47
1:6:1381:U:H4'	22:d0:59:PRO:HG3	1.96	0.47
5:s3:4:LEU:O	5:s3:5:ILE:HD13	2.13	0.47
5:s3:76:ARG:HG3	5:s3:77:PHE:CD1	2.50	0.47
10:s8:61:GLU:HG2	10:s8:62:THR:HG23	1.96	0.47
18:c6:78:VAL:O	18:c6:81:ILE:HG12	2.14	0.47
21:c9:40:SER:HB2	21:c9:96:ALA:HA	1.97	0.47
23:d1:71:ARG:HE	29:d7:4:VAL:HG11	1.79	0.47
24:d2:12:ASN:O	24:d2:16:ASN:N	2.38	0.47
36:5:94:G:H2'	36:5:95:A:C8	2.49	0.47
36:5:2093:A:O2'	36:5:2094:C:O5'	2.32	0.47
36:5:2747:A:H4'	42:l5:174:PRO:O	2.15	0.47
37:7:32:U:H4'	37:7:33:U:OP1	2.13	0.47
39:l2:15:ILE:HG22	39:l2:16:PHE:CD2	2.49	0.47
40:l3:140:ASP:OD2	40:l3:141:GLY:N	2.48	0.47
41:l4:208:VAL:HG11	41:l4:230:VAL:HG13	1.97	0.47
41:l4:330:TYR:O	41:l4:331:ALA:C	2.58	0.47
45:l8:71:VAL:HG22	45:l8:76:ALA:HB2	1.96	0.47
45:l8:143:ILE:HD11	45:l8:151:VAL:HG11	1.97	0.47
46:l9:105:GLU:HA	46:l9:109:ALA:HB3	1.96	0.47
48:m1:90:GLN:OE1	48:m1:172:LEU:HD21	2.13	0.47
50:m4:17:VAL:HG21	50:m4:74:ARG:HB2	1.96	0.47
51:m5:83:LYS:O	51:m5:87:GLN:HG3	2.13	0.47
54:m8:66:ARG:HE	54:m8:143:PRO:HD3	1.78	0.47
55:m9:182:ASP:O	55:m9:184:LEU:N	2.45	0.47
56:n0:141:LYS:HA	56:n0:144:LEU:HD12	1.95	0.47
57:n1:46:GLY:HA2	57:n1:52:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:n4:4:GLU:HG3	60:n4:30:ARG:NH1	2.29	0.47
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.95	0.47
71:o5:45:LYS:O	71:o5:49:LYS:HG2	2.14	0.47
76:q0:95:VAL:HG21	76:q0:122:ARG:NH1	2.29	0.47
77:q1:4:LYS:HG2	77:q1:5:TRP:CE3	2.50	0.47
81:p0:25:LEU:N	81:p0:191:TYR:O	2.45	0.47
1:2:335:U:O2'	13:C1:129:ARG:HD2	2.14	0.47
1:2:473:A:OP1	11:S9:11:THR:OG1	2.28	0.47
1:2:1389:C:H4'	19:C7:49:LYS:HA	1.97	0.47
2:S0:90:ALA:HB3	2:S0:97:PRO:HG3	1.96	0.47
2:S0:157:ASP:O	2:S0:158:VAL:C	2.58	0.47
11:S9:127:VAL:HG12	11:S9:131:GLN:NE2	2.29	0.47
15:C3:89:TYR:CE2	15:C3:150:VAL:HG13	2.49	0.47
16:C4:43:THR:OG1	16:C4:46:MET:HG3	2.15	0.47
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.96	0.47
21:C9:52:GLY:C	21:C9:54:PHE:H	2.18	0.47
24:D2:77:PRO:O	24:D2:79:PHE:N	2.47	0.47
36:1:92:G:H5'	36:1:93:C:C5'	2.45	0.47
36:1:199:A:C4	36:1:201:A:C8	3.02	0.47
36:1:370:U:C4	36:1:371:G:C6	3.03	0.47
36:1:812:G:N7	86:1:3977:OHX:N1	2.62	0.47
36:1:1496:C:C2	36:1:1521:G:N2	2.83	0.47
36:1:2854:U:OP1	47:M0:64:ALA:HB2	2.15	0.47
43:L6:56:LYS:HB2	43:L6:98:VAL:CG1	2.44	0.47
43:L6:78:ARG:HD3	43:L6:106:PHE:CD2	2.49	0.47
44:L7:131:GLU:O	44:L7:229:PHE:HB2	2.14	0.47
45:L8:25:PRO:HB2	45:L8:26:LEU:HD12	1.97	0.47
46:L9:105:GLU:HA	46:L9:109:ALA:HB3	1.97	0.47
58:N2:43:VAL:HB	58:N2:49:ASN:HB3	1.97	0.47
62:N6:36:SER:HB3	62:N6:106:ILE:O	2.13	0.47
1:6:600:U:OP2	25:d3:108:GLY:HA2	2.14	0.47
1:6:755:A:HO2'	1:6:756:A:P	2.34	0.47
1:6:1698:G:H1'	1:6:1699:G:OP1	2.14	0.47
9:s7:173:TYR:CE1	9:s7:181:ILE:HD11	2.49	0.47
21:c9:6:VAL:C	21:c9:8:ASP:H	2.22	0.47
22:d0:50:LEU:HD13	22:d0:95:ALA:HB2	1.96	0.47
36:5:150:A:OP1	51:m5:56:LYS:NZ	2.30	0.47
36:5:176:G:H2'	36:5:177:U:C6	2.49	0.47
36:5:195:U:H2'	36:5:196:G:O4'	2.13	0.47
36:5:1284:C:O2'	36:5:1285:G:OP1	2.30	0.47
36:5:2725:U:H5''	36:5:2726:C:OP2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2806:U:H2'	36:5:2807:U:H6	1.80	0.47
36:5:3181:C:H2'	36:5:3182:G:H8	1.78	0.47
36:5:3314:A:OP1	40:l3:174:LYS:N	2.43	0.47
36:5:3358:U:H2'	36:5:3359:A:C8	2.49	0.47
37:7:85:G:O6	86:7:222:OHX:N5	2.47	0.47
86:8:216:OHX:N6	86:8:223:OHX:N4	2.62	0.47
39:l2:70:ARG:CZ	39:l2:72:ARG:NE	2.77	0.47
39:l2:144:ASN:O	39:l2:160:SER:N	2.45	0.47
41:l4:317:PRO:O	41:l4:324:LEU:HB2	2.14	0.47
42:l5:108:ARG:NH2	42:l5:251:PRO:O	2.43	0.47
43:l6:72:ASN:HB3	43:l6:160:SER:HA	1.96	0.47
50:m4:38:ILE:O	56:n0:95:ARG:NH2	2.48	0.47
51:m5:31:ARG:HG3	51:m5:129:TYR:OH	2.15	0.47
53:m7:18:ARG:O	53:m7:94:LEU:HD11	2.14	0.47
53:m7:141:SER:O	53:m7:143:PRO:HD3	2.15	0.47
55:m9:90:PRO:HG2	55:m9:93:VAL:CG2	2.44	0.47
57:n1:62:GLY:HA3	57:n1:76:ILE:HD13	1.96	0.47
62:n6:5:SER:O	62:n6:7:ASP:N	2.46	0.47
63:n7:115:LYS:O	63:n7:119:GLU:HB2	2.14	0.47
66:o0:13:LYS:HE3	66:o0:103:THR:HG21	1.97	0.47
67:o1:25:PHE:O	67:o1:28:ARG:N	2.40	0.47
68:o2:64:LYS:O	68:o2:65:PHE:HB2	2.13	0.47
68:o2:79:VAL:O	68:o2:83:GLU:HG3	2.15	0.47
69:o3:103:TYR:HA	69:o3:105:SER:N	2.29	0.47
76:q0:114:LYS:HG2	76:q0:115:CYS:N	2.30	0.47
1:2:47:A:N7	1:2:98:U:O2'	2.44	0.47
1:2:106:U:H2'	1:2:107:C:O4'	2.15	0.47
1:2:108:A:H2'	1:2:109:G:C8	2.49	0.47
1:2:247:A:O2'	1:2:248:U:H5'	2.14	0.47
1:2:778:G:H22	26:D4:10:ARG:CZ	2.26	0.47
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.15	0.47
1:2:1410:A:H2'	1:2:1411:A:O4'	2.14	0.47
3:S1:128:LYS:HZ2	3:S1:132:ASP:HB3	1.77	0.47
5:S3:61:GLU:O	5:S3:63:GLY:N	2.47	0.47
7:S5:114:ILE:O	7:S5:118:LEU:HD12	2.14	0.47
7:S5:203:LYS:HD2	7:S5:203:LYS:HA	1.83	0.47
8:S6:25:ARG:HG3	8:S6:28:PHE:CD1	2.50	0.47
11:S9:51:LYS:O	11:S9:54:ARG:HB3	2.15	0.47
20:C8:45:LEU:HD11	21:C9:36:ILE:HG22	1.95	0.47
21:C9:125:SER:OG	21:C9:128:GLY:N	2.48	0.47
24:D2:94:LEU:HD11	24:D2:102:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.48	0.47
29:D7:63:LEU:HD23	29:D7:63:LEU:HA	1.80	0.47
36:1:142:C:H2'	36:1:143:G:O4'	2.15	0.47
36:1:198:A:C6	36:1:219:A:C6	3.02	0.47
36:1:421:G:C8	36:1:2365:C:C6	3.02	0.47
36:1:692:A:C4	36:1:693:A:C8	3.02	0.47
36:1:1769:G:N7	86:1:4166:OHX:N2	2.62	0.47
36:1:2680:A:C2	48:M1:57:PHE:HB3	2.49	0.47
36:1:2884:C:H2'	36:1:2885:C:H6	1.80	0.47
36:1:2932:U:H2'	36:1:2933:A:H5''	1.97	0.47
36:1:3279:A:N6	36:1:3280:U:O4	2.48	0.47
36:1:3326:G:H2'	36:1:3327:G:C8	2.48	0.47
36:1:3335:A:C2	36:1:3336:A:C4	3.03	0.47
37:3:64:A:H5''	47:M0:206:LEU:H	1.79	0.47
40:L3:79:VAL:HG11	40:L3:338:LEU:HD21	1.96	0.47
44:L7:222:HIS:O	44:L7:227:GLY:N	2.36	0.47
52:M6:12:LYS:HD3	52:M6:37:ARG:NH2	2.30	0.47
67:O1:87:ASN:OD1	67:O1:88:PRO:HD2	2.14	0.47
70:O4:77:GLY:C	70:O4:79:SER:H	2.22	0.47
77:Q1:14:LYS:O	77:Q1:18:ARG:HB2	2.14	0.47
1:6:246:G:C2	1:6:247:A:C4	3.03	0.47
1:6:401:A:N1	8:s6:88:ARG:NH2	2.62	0.47
1:6:757:A:H4'	6:s4:22:LYS:HD3	1.96	0.47
1:6:887:A:H1'	16:c4:122:PRO:HB3	1.97	0.47
1:6:899:G:H2'	1:6:900:A:C8	2.49	0.47
1:6:1183:A:C2	17:c5:100:LYS:HB3	2.49	0.47
1:6:1263:G:H2'	1:6:1264:G:O4'	2.15	0.47
1:6:1314:U:OP1	86:6:2184:OHX:N1	2.48	0.47
1:6:1614:A:C6	1:6:1615:C:C4	3.02	0.47
2:s0:195:TRP:NE1	2:s0:197:ILE:HD13	2.29	0.47
3:s1:129:THR:OG1	3:s1:131:ASP:OD1	2.30	0.47
8:s6:98:ARG:HD3	8:s6:99:GLY:N	2.30	0.47
13:c1:69:LYS:HB3	13:c1:71:LEU:HD21	1.95	0.47
13:c1:86:ILE:HD11	13:c1:125:VAL:HG11	1.96	0.47
15:c3:84:ILE:H	15:c3:84:ILE:HD13	1.80	0.47
17:c5:68:PRO:HG2	17:c5:71:GLU:CD	2.40	0.47
18:c6:58:ASP:OD2	18:c6:59:LYS:HD2	2.15	0.47
27:d5:43:ASP:O	27:d5:45:GLU:N	2.45	0.47
28:d6:30:ILE:HG13	28:d6:31:PRO:HD2	1.97	0.47
36:5:40:A:C6	36:5:937:G:C2	3.02	0.47
36:5:136:G:H5'	71:o5:95:PHE:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:213:A:H5''	62:n6:2:ALA:N	2.28	0.47
36:5:767:U:H1'	36:5:768:C:C6	2.48	0.47
36:5:982:C:N4	36:5:1101:G:H1	2.13	0.47
36:5:1020:G:H2'	36:5:1021:G:O4'	2.15	0.47
36:5:1434:G:OP1	36:5:1437:C:N4	2.48	0.47
36:5:2523:A:H2'	45:l8:49:TYR:O	2.14	0.47
36:5:2680:A:C2	48:m1:57:PHE:HB3	2.50	0.47
36:5:2882:U:H2'	36:5:2883:U:O4'	2.15	0.47
40:l3:92:TYR:HE1	40:l3:159:ARG:HD2	1.80	0.47
40:l3:111:SER:O	40:l3:114:VAL:HG23	2.15	0.47
40:l3:284:ARG:HB2	40:l3:323:MET:HE2	1.96	0.47
40:l3:284:ARG:HB3	40:l3:323:MET:HB3	1.97	0.47
41:l4:269:SER:O	41:l4:271:LYS:N	2.48	0.47
43:l6:75:PRO:O	43:l6:77:ARG:HB2	2.13	0.47
49:m3:27:ASP:O	49:m3:31:LYS:HB2	2.14	0.47
51:m5:13:LYS:O	51:m5:19:LEU:HD22	2.15	0.47
53:m7:24:VAL:HG12	53:m7:86:LYS:CD	2.45	0.47
56:n0:87:THR:H	56:n0:88:HIS:CE1	2.31	0.47
69:o3:49:ILE:HD13	69:o3:100:ILE:HG13	1.96	0.47
81:p0:198:PRO:C	81:p0:200:SER:H	2.23	0.47
1:2:4:C:H2'	1:2:5:U:C6	2.49	0.47
1:2:48:G:O2'	1:2:49:C:H5'	2.15	0.47
1:2:144:U:O2'	1:2:145:A:H5'	2.15	0.47
1:2:332:U:P	10:S8:56:ARG:HH22	2.38	0.47
1:2:411:C:H2'	1:2:412:A:O4'	2.14	0.47
1:2:452:A:H3'	1:2:453:U:C5	2.50	0.47
1:2:626:U:H2'	1:2:627:C:H6	1.79	0.47
1:2:755:A:H2'	1:2:756:A:O4'	2.14	0.47
1:2:763:G:C6	1:2:764:U:N3	2.83	0.47
1:2:793:A:H5''	1:2:794:U:C5	2.50	0.47
1:2:868:G:H1	1:2:960:U:H3	1.61	0.47
1:2:1202:A:H2'	1:2:1203:A:H5''	1.97	0.47
1:2:1541:G:C5	1:2:1542:G:C6	3.02	0.47
2:S0:10:THR:OG1	2:S0:12:GLU:OE2	2.29	0.47
2:S0:27:ARG:HG2	2:S0:44:GLY:O	2.14	0.47
2:S0:144:ILE:HG23	2:S0:158:VAL:HG13	1.97	0.47
3:S1:27:LYS:HG2	3:S1:49:ASN:OD1	2.14	0.47
4:S2:158:THR:HG21	4:S2:221:THR:HG23	1.96	0.47
5:S3:222:VAL:HB	34:SR:192:PHE:HA	1.97	0.47
6:S4:104:ASP:HB3	6:S4:105:VAL:H	1.43	0.47
8:S6:7:TYR:CE1	8:S6:125:THR:HG23	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:158:ILE:HD12	8:S6:158:ILE:HA	1.81	0.47
9:S7:117:THR:O	9:S7:120:ALA:N	2.47	0.47
13:C1:8:GLN:OE1	13:C1:14:GLN:N	2.46	0.47
13:C1:76:VAL:HG12	13:C1:85:VAL:O	2.15	0.47
14:C2:46:ARG:HB2	33:E1:103:LEU:HD12	1.97	0.47
15:C3:47:PRO:HB3	15:C3:71:ILE:HG22	1.97	0.47
18:C6:14:LYS:HB3	18:C6:15:SER:H	1.46	0.47
26:D4:54:ALA:O	26:D4:76:TYR:N	2.35	0.47
34:SR:67:ILE:O	34:SR:84:SER:OG	2.18	0.47
34:SR:269:TYR:CG	34:SR:270:LEU:N	2.81	0.47
36:1:371:G:H4'	36:1:396:A:N1	2.30	0.47
36:1:706:A:H4'	36:1:781:G:O2'	2.15	0.47
36:1:1094:U:H3'	36:1:1094:U:H6	1.80	0.47
36:1:1593:A:C6	36:1:1594:A:C6	3.02	0.47
36:1:1615:C:H2'	36:1:1616:U:C6	2.50	0.47
36:1:1677:G:OP2	58:N2:103:TYR:OH	2.25	0.47
36:1:1826:C:H2'	36:1:1827:C:C6	2.49	0.47
36:1:2444:C:OP2	36:1:2445:A:H2'	2.14	0.47
36:1:2512:C:N4	36:1:2593:A:OP2	2.46	0.47
36:1:2754:G:OP2	86:1:4001:OHX:N6	2.47	0.47
36:1:2904:U:H2'	36:1:2905:U:C6	2.50	0.47
36:1:2943:G:C8	40:L3:2:SER:HB3	2.50	0.47
36:1:3000:A:H2'	36:1:3001:C:C6	2.49	0.47
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.48	0.47
36:1:3346:U:H3	36:1:3359:A:N6	2.12	0.47
86:1:3882:OHX:N5	57:N1:13:TYR:O	2.47	0.47
86:1:3965:OHX:N6	86:1:4153:OHX:N2	2.62	0.47
37:3:91:G:H2'	37:3:92:A:H8	1.78	0.47
41:L4:6:VAL:HG21	41:L4:255:PHE:CZ	2.50	0.47
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.26	0.47
45:L8:238:LEU:HB3	45:L8:243:GLN:HG2	1.97	0.47
46:L9:20:ILE:HG13	50:M4:7:VAL:HG13	1.96	0.47
46:L9:96:HIS:O	46:L9:98:PRO:HD3	2.15	0.47
50:M4:14:LEU:HA	50:M4:14:LEU:HD23	1.71	0.47
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	1.95	0.47
51:M5:135:VAL:O	51:M5:137:PRO:HD3	2.15	0.47
51:M5:148:TYR:O	51:M5:150:TRP:N	2.46	0.47
55:M9:105:LEU:HD23	55:M9:105:LEU:C	2.39	0.47
56:N0:16:THR:HG23	56:N0:19:VAL:HB	1.96	0.47
56:N0:33:ASN:C	56:N0:35:VAL:N	2.72	0.47
57:N1:92:ARG:C	57:N1:94:GLU:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:28:ASN:ND2	59:N3:112:SER:HB2	2.27	0.47
59:N3:74:MET:HE3	59:N3:102:ILE:HD13	1.96	0.47
59:N3:109:MET:HE2	59:N3:109:MET:HB3	1.71	0.47
60:N4:54:LEU:H	60:N4:54:LEU:CD1	2.23	0.47
64:N8:103:ASP:HB3	64:N8:106:ALA:HB3	1.94	0.47
65:N9:6:ASN:O	65:N9:7:HIS:HB2	2.14	0.47
65:N9:56:ALA:O	65:N9:59:LYS:HB3	2.15	0.47
66:O0:95:ALA:HB1	66:O0:98:SER:HB3	1.97	0.47
69:O3:39:GLN:O	69:O3:41:ALA:N	2.48	0.47
69:O3:60:ARG:CZ	69:O3:60:ARG:HB3	2.45	0.47
69:O3:90:PRO:C	69:O3:92:LYS:H	2.23	0.47
71:O5:73:LYS:HE2	71:O5:73:LYS:HB3	1.78	0.47
78:Q2:38:GLN:HE21	78:Q2:38:GLN:HA	1.79	0.47
1:6:190:C:O2'	1:6:191:C:O5'	2.33	0.47
1:6:197:A:H2'	1:6:198:A:C8	2.50	0.47
1:6:221:A:O2'	1:6:222:A:H5'	2.15	0.47
1:6:515:A:C8	1:6:516:G:C8	3.03	0.47
1:6:813:U:H5'	15:c3:76:LYS:NZ	2.30	0.47
1:6:918:U:H2'	1:6:919:A:H8	1.80	0.47
1:6:1341:A:H4'	34:sR:90:ARG:NH2	2.29	0.47
1:6:1394:G:C4	1:6:1405:G:N2	2.83	0.47
1:6:1564:U:H2'	1:6:1565:C:H6	1.76	0.47
1:6:1651:A:H8	1:6:1651:A:O5'	1.97	0.47
2:s0:142:PRO:HG3	23:d1:32:VAL:HG22	1.97	0.47
2:s0:175:TYR:OH	2:s0:197:ILE:O	2.21	0.47
3:s1:52:THR:HG1	3:s1:55:LYS:HB3	1.80	0.47
3:s1:93:GLY:C	3:s1:95:ASN:H	2.19	0.47
4:s2:54:GLU:OE1	23:d1:11:LEU:HD13	2.14	0.47
5:s3:216:PRO:HB2	34:sR:196:ASN:OD1	2.15	0.47
7:s5:73:THR:HG23	18:c6:114:ARG:HE	1.80	0.47
7:s5:225:ARG:NH2	30:d8:58:GLU:HB2	2.30	0.47
8:s6:39:GLU:CD	8:s6:46:LYS:HG3	2.39	0.47
10:s8:171:SER:CB	10:s8:180:ASP:H	2.28	0.47
11:s9:168:ARG:NH1	11:s9:171:ARG:HH21	2.11	0.47
11:s9:171:ARG:NE	11:s9:174:ARG:HB2	2.30	0.47
17:c5:30:THR:O	17:c5:33:PHE:N	2.47	0.47
19:c7:107:SER:O	19:c7:110:VAL:HG23	2.14	0.47
21:c9:79:LEU:HD23	21:c9:80:TYR:CE2	2.49	0.47
23:d1:79:LEU:HD13	23:d1:82:VAL:HG11	1.96	0.47
26:d4:94:TYR:HB2	26:d4:96:LEU:HG	1.97	0.47
31:d9:21:CYS:HA	31:d9:30:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:23:LEU:HD22	34:sR:33:LEU:HD21	1.96	0.47
34:sR:69:GLN:HG2	34:sR:111:MET:SD	2.54	0.47
34:sR:132:LYS:HB3	34:sR:140:CYS:SG	2.55	0.47
36:5:136:G:H5'	71:o5:95:PHE:CD2	2.50	0.47
36:5:646:A:H2'	36:5:647:A:O4'	2.14	0.47
36:5:668:G:OP1	86:5:4136:OHX:N1	2.47	0.47
36:5:702:C:O2'	36:5:788:C:H5''	2.14	0.47
36:5:818:C:N3	36:5:920:A:H5'	2.28	0.47
36:5:1016:C:H42	48:m1:174:LYS:HE3	1.80	0.47
36:5:1696:A:H2'	36:5:1697:A:C8	2.49	0.47
36:5:1856:C:H1'	70:o4:7:PHE:CE2	2.50	0.47
36:5:2288:G:H5''	36:5:2289:U:OP2	2.14	0.47
36:5:2621:G:H2'	36:5:2622:C:C6	2.50	0.47
36:5:2756:C:O4'	57:n1:49:GLN:HG2	2.14	0.47
36:5:2787:G:OP2	86:5:4028:OHX:N6	2.48	0.47
36:5:3045:G:H1	36:5:3096:C:H42	1.63	0.47
36:5:3163:A:O2'	36:5:3164:C:H5'	2.15	0.47
37:7:110:G:C6	37:7:111:U:C4	3.03	0.47
39:l2:34:TYR:CD1	39:l2:38:HIS:HD2	2.33	0.47
39:l2:101:VAL:HB	39:l2:165:VAL:HB	1.97	0.47
39:l2:188:LYS:NZ	39:l2:189:TYR:OH	2.43	0.47
40:l3:114:VAL:HG13	40:l3:163:HIS:CG	2.50	0.47
41:l4:244:LEU:HD23	41:l4:244:LEU:HA	1.67	0.47
41:l4:326:ARG:O	44:l7:41:ARG:NH2	2.48	0.47
41:l4:359:LEU:HA	56:n0:8:GLN:OE1	2.15	0.47
42:l5:51:LEU:N	42:l5:145:PHE:O	2.39	0.47
45:l8:180:VAL:HG22	45:l8:181:LYS:H	1.79	0.47
46:l9:146:LEU:HD12	46:l9:146:LEU:N	2.29	0.47
49:m3:59:ARG:NH1	49:m3:66:ASN:O	2.47	0.47
50:m4:99:TRP:CD1	50:m4:99:TRP:C	2.93	0.47
51:m5:35:VAL:O	51:m5:64:VAL:HA	2.15	0.47
52:m6:73:PHE:CD1	52:m6:78:ARG:HG2	2.50	0.47
55:m9:186:LYS:C	55:m9:188:ASP:H	2.22	0.47
61:n5:135:ILE:HD13	61:n5:135:ILE:O	2.15	0.47
63:n7:48:ARG:HB3	63:n7:69:LYS:HB3	1.97	0.47
63:n7:66:THR:HG21	63:n7:123:GLN:HE21	1.80	0.47
65:n9:8:THR:HG23	65:n9:9:ALA:N	2.30	0.47
76:q0:95:VAL:HG21	76:q0:122:ARG:CZ	2.44	0.47
78:q2:70:LEU:N	78:q2:83:LEU:O	2.35	0.47
1:2:386:G:N1	1:2:387:A:C6	2.83	0.47
1:2:545:A:N1	1:2:593:U:O2'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:863:A:OP1	24:D2:57:ARG:NH2	2.46	0.47
1:2:1000:C:N4	1:2:1003:A:OP2	2.47	0.47
1:2:1039:A:N7	1:2:1091:A:C5	2.83	0.47
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.48	0.47
1:2:1345:A:H2'	1:2:1348:A:H62	1.79	0.47
1:2:1776:A:H2'	1:2:1777:G:C8	2.50	0.47
4:S2:81:MET:HB2	4:S2:101:VAL:O	2.13	0.47
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.15	0.47
5:S3:127:MET:HE1	5:S3:133:GLY:H	1.80	0.47
6:S4:208:VAL:HG11	6:S4:225:VAL:HG21	1.95	0.47
9:S7:162:ILE:O	9:S7:166:LEU:HD13	2.14	0.47
10:S8:39:GLY:CA	10:S8:61:GLU:HB3	2.41	0.47
13:C1:124:THR:O	13:C1:140:VAL:HG12	2.15	0.47
14:C2:94:ALA:HB1	14:C2:119:SER:H	1.79	0.47
20:C8:133:VAL:O	20:C8:135:GLY:N	2.48	0.47
24:D2:24:GLN:NE2	29:D7:5:GLN:H	2.13	0.47
34:SR:93:ASP:HB2	34:SR:100:TYR:CE1	2.49	0.47
34:SR:260:ILE:HD13	34:SR:292:LEU:HD13	1.97	0.47
36:1:201:A:H2'	36:1:202:G:H8	1.79	0.47
36:1:929:A:H2'	36:1:930:U:C6	2.50	0.47
36:1:2287:C:C2	36:1:2298:U:O4'	2.68	0.47
36:1:2842:U:C4	36:1:2843:U:C4	3.02	0.47
36:1:3353:G:O2'	36:1:3354:U:OP1	2.33	0.47
39:L2:32:LEU:HD23	39:L2:163:ARG:CZ	2.43	0.47
40:L3:54:THR:OG1	40:L3:360:ASP:HB3	2.15	0.47
41:L4:161:LYS:O	41:L4:162:THR:C	2.58	0.47
45:L8:75:ILE:HD11	51:M5:18:VAL:HG23	1.95	0.47
45:L8:239:GLY:O	45:L8:242:ALA:N	2.43	0.47
47:M0:77:THR:O	47:M0:81:GLY:N	2.41	0.47
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.50	0.47
49:M3:71:ALA:HA	49:M3:147:ILE:HD12	1.97	0.47
52:M6:68:ARG:H	52:M6:68:ARG:HG2	1.41	0.47
52:M6:85:ARG:HD3	52:M6:90:HIS:CD2	2.49	0.47
55:M9:81:ARG:HD2	55:M9:88:ARG:NH2	2.29	0.47
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.97	0.47
62:N6:125:LYS:O	62:N6:126:LEU:HG	2.15	0.47
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.97	0.47
68:O2:100:ILE:HB	68:O2:105:ARG:NH1	2.30	0.47
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.54	0.47
78:Q2:2:VAL:N	78:Q2:90:HIS:O	2.47	0.47
1:6:16:G:H2'	1:6:17:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:485:A:C2	1:6:486:G:H1'	2.49	0.47
1:6:836:U:H2'	1:6:837:G:C8	2.49	0.47
1:6:1077:C:H2'	1:6:1078:C:C6	2.50	0.47
1:6:1729:C:O2'	10:s8:2:GLY:HA2	2.14	0.47
2:s0:49:ASN:ND2	2:s0:52:LYS:HE3	2.30	0.47
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.97	0.47
6:s4:85:GLY:O	6:s4:88:ASP:HB2	2.15	0.47
6:s4:105:VAL:HG11	6:s4:245:LYS:H	1.79	0.47
9:s7:40:PRO:HG2	9:s7:41:LEU:HD23	1.96	0.47
13:c1:63:LEU:HD23	13:c1:63:LEU:HA	1.49	0.47
18:c6:99:GLU:OE2	34:sR:60:SER:HB2	2.15	0.47
18:c6:131:GLY:HA2	18:c6:138:PHE:CD1	2.50	0.47
19:c7:44:LYS:O	19:c7:47:ARG:HB3	2.13	0.47
25:d3:99:ASN:OD1	25:d3:99:ASN:N	2.48	0.47
28:d6:23:CYS:C	28:d6:25:ASN:N	2.72	0.47
29:d7:46:VAL:HG12	29:d7:47:PHE:H	1.79	0.47
34:sR:281:TYR:HB3	34:sR:285:ALA:HB3	1.96	0.47
36:5:216:G:OP1	62:n6:16:ARG:NH1	2.48	0.47
36:5:678:G:O6	86:5:4008:OHX:N5	2.48	0.47
36:5:1078:U:O4	86:5:3992:OHX:N5	2.48	0.47
36:5:1431:G:OP2	64:n8:12:ARG:NH1	2.48	0.47
36:5:1721:U:OP2	55:m9:124:TYR:OH	2.24	0.47
36:5:3286:G:H2'	36:5:3287:U:O4'	2.14	0.47
37:7:114:U:H2'	37:7:115:G:C8	2.49	0.47
43:l6:76:LEU:HD11	43:l6:141:VAL:HG21	1.96	0.47
46:l9:32:GLY:O	46:l9:82:VAL:HG22	2.15	0.47
48:m1:49:LYS:HB3	48:m1:62:ASN:HA	1.96	0.47
48:m1:142:LYS:HD3	48:m1:142:LYS:HA	1.69	0.47
53:m7:26:PHE:CD1	53:m7:121:GLN:HG3	2.50	0.47
61:n5:101:GLU:HG2	61:n5:102:LEU:HD23	1.97	0.47
64:n8:70:LYS:N	64:n8:71:PRO:HD3	2.30	0.47
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.46	0.47
1:2:121:U:H1'	6:S4:33:ALA:HB3	1.96	0.47
1:2:192:U:O2'	1:2:193:U:O5'	2.33	0.47
1:2:481:A:H61	1:2:505:A:H62	1.62	0.47
1:2:623:A:OP1	86:2:2157:OHX:N1	2.48	0.47
1:2:1130:G:OP2	86:2:2073:OHX:N2	2.48	0.47
1:2:1402:G:H2'	1:2:1403:C:C6	2.49	0.47
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.65	0.47
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.97	0.47
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:30:VAL:HG12	21:C9:54:PHE:CG	2.50	0.47
31:D9:41:GLN:N	31:D9:41:GLN:OE1	2.48	0.47
34:SR:117:LYS:HD2	34:SR:117:LYS:H	1.79	0.47
36:1:517:G:P	44:L7:60:ARG:HH22	2.38	0.47
36:1:563:U:H2'	36:1:564:G:C8	2.49	0.47
36:1:697:A:H2'	36:1:698:U:O4'	2.15	0.47
36:1:1507:G:N7	53:M7:129:THR:HB	2.30	0.47
36:1:1577:G:H2'	36:1:1578:C:O4'	2.15	0.47
36:1:2341:A:OP2	40:L3:247:ARG:NH2	2.47	0.47
36:1:2421:U:H2'	36:1:2422:C:O4'	2.15	0.47
36:1:2944:U:H1'	40:L3:251:CYS:SG	2.54	0.47
36:1:3216:G:C4	36:1:3259:U:C4	3.03	0.47
40:L3:262:TRP:N	52:M6:64:PHE:O	2.48	0.47
41:L4:234:ASN:OD1	41:L4:236:LEU:HD12	2.14	0.47
47:M0:99:ILE:HG13	47:M0:100:ASN:H	1.78	0.47
48:M1:23:VAL:HG12	48:M1:29:ARG:HD3	1.97	0.47
51:M5:31:ARG:HD3	51:M5:129:TYR:OH	2.15	0.47
51:M5:68:ARG:HG2	51:M5:68:ARG:NH1	2.14	0.47
51:M5:197:LEU:HG	51:M5:199:LEU:HD21	1.97	0.47
52:M6:98:ALA:HA	52:M6:101:ARG:NH1	2.30	0.47
56:N0:45:LEU:HD22	56:N0:45:LEU:HA	1.56	0.47
64:N8:3:SER:O	64:N8:6:THR:HG22	2.15	0.47
66:O0:18:ILE:HD13	66:O0:81:VAL:HB	1.95	0.47
77:Q1:8:LYS:HD3	77:Q1:12:ARG:HH21	1.80	0.47
1:6:433:C:H5''	1:6:434:G:OP2	2.15	0.47
1:6:461:G:OP1	11:s9:2:PRO:HD2	2.15	0.47
1:6:1182:U:O2	1:6:1184:A:H8	1.97	0.47
8:s6:200:ALA:HA	8:s6:203:GLU:HG3	1.96	0.47
18:c6:31:VAL:O	18:c6:33:GLY:N	2.45	0.47
18:c6:103:ASN:HA	18:c6:106:LYS:HB2	1.96	0.47
19:c7:86:PRO:HB2	19:c7:88:VAL:H	1.79	0.47
24:d2:6:VAL:HG22	24:d2:29:PRO:HD2	1.97	0.47
25:d3:131:SER:O	25:d3:135:LEU:HG	2.15	0.47
36:5:1237:G:H2'	36:5:1237:G:N3	2.29	0.47
36:5:1560:G:N2	36:5:1580:A:N7	2.62	0.47
36:5:1843:C:H2'	36:5:1844:C:C6	2.49	0.47
36:5:1872:C:O3'	55:m9:56:THR:HG22	2.15	0.47
36:5:3343:G:N2	36:5:3361:G:H2'	2.29	0.47
49:m3:80:VAL:HG11	49:m3:87:ALA:HB2	1.97	0.47
51:m5:137:PRO:HG2	51:m5:138:GLN:NE2	2.29	0.47
52:m6:58:LEU:HA	52:m6:58:LEU:HD12	1.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:m6:121:PRO:C	52:m6:123:ALA:H	2.22	0.47
54:m8:133:LYS:HB2	54:m8:135:GLN:HE22	1.80	0.47
55:m9:145:ALA:O	55:m9:148:ASP:HB2	2.15	0.47
57:n1:88:ARG:HD3	65:n9:33:LYS:HZ1	1.77	0.47
59:n3:12:ARG:HG2	59:n3:13:ILE:N	2.30	0.47
59:n3:53:SER:N	59:n3:56:ASP:OD2	2.47	0.47
64:n8:47:LYS:HG3	64:n8:48:TYR:N	2.30	0.47
72:o6:43:LEU:HD22	72:o6:43:LEU:HA	1.71	0.47
75:o9:25:GLN:O	75:o9:28:ARG:HG3	2.14	0.47
1:2:2:A:H5'	1:2:2:A:C8	2.49	0.47
1:2:344:A:H2'	1:2:345:U:C6	2.50	0.47
1:2:363:G:OP1	86:2:2077:OHX:N2	2.48	0.47
1:2:398:G:P	10:S8:47:ARG:HH12	2.36	0.47
1:2:482:U:H2'	1:2:483:A:C8	2.48	0.47
1:2:620:A:O2'	1:2:621:A:H5'	2.15	0.47
1:2:679:U:H2'	1:2:680:U:C6	2.49	0.47
1:2:1153:G:OP1	28:D6:85:ARG:NH1	2.47	0.47
2:S0:162:CYS:HB3	2:S0:173:ILE:HG13	1.97	0.47
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.79	0.47
8:S6:28:PHE:CZ	8:S6:104:PRO:HG3	2.49	0.47
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	1.71	0.47
9:S7:35:LYS:HZ2	9:S7:36:ALA:H	1.63	0.47
10:S8:70:GLU:OE2	13:C1:24:LYS:NZ	2.35	0.47
11:S9:175:ARG:HD3	11:S9:179:ARG:CZ	2.45	0.47
14:C2:124:LYS:O	14:C2:126:TRP:N	2.44	0.47
16:C4:49:LYS:HA	16:C4:49:LYS:HD3	1.70	0.47
20:C8:117:LYS:O	20:C8:119:ILE:N	2.48	0.47
22:D0:16:GLN:HB2	22:D0:17:GLN:NE2	2.30	0.47
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.97	0.47
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.47	0.47
27:D5:55:PRO:HG2	27:D5:56:THR:HG23	1.97	0.47
27:D5:66:VAL:HA	27:D5:70:LYS:O	2.15	0.47
32:E0:37:ARG:O	32:E0:41:THR:HG23	2.15	0.47
36:1:325:A:H5''	36:1:326:U:OP2	2.15	0.47
36:1:992:A:N1	36:1:993:G:C6	2.83	0.47
36:1:1069:C:H2'	36:1:1070:U:H6	1.80	0.47
36:1:1095:U:N3	57:N1:127:GLN:HG2	2.30	0.47
36:1:1301:A:H4'	36:1:1302:A:O5'	2.15	0.47
36:1:1334:U:H5''	44:L7:206:LYS:HB3	1.97	0.47
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.96	0.47
36:1:2165:G:OP1	86:1:3994:OHX:N6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2380:U:H2'	36:1:2381:G:C8	2.50	0.47
36:1:2380:U:C2	36:1:2381:G:C8	3.02	0.47
36:1:2438:A:H2'	36:1:2439:A:C8	2.50	0.47
36:1:2776:C:H5'	36:1:2777:G:C2	2.50	0.47
36:1:2947:G:OP2	36:1:2947:G:H4'	2.14	0.47
40:L3:84:VAL:CG2	40:L3:162:VAL:HB	2.45	0.47
41:L4:142:VAL:C	41:L4:144:LYS:N	2.73	0.47
42:L5:58:LYS:HD2	42:L5:93:THR:HG21	1.97	0.47
46:L9:41:ILE:HD13	46:L9:41:ILE:O	2.15	0.47
48:M1:117:ASP:OD2	48:M1:119:SER:HB3	2.15	0.47
49:M3:89:TYR:CE1	49:M3:93:ILE:HG13	2.50	0.47
56:N0:1:MET:HE2	56:N0:4:PHE:CE1	2.50	0.47
56:N0:46:GLN:HG3	56:N0:51:VAL:O	2.14	0.47
59:N3:74:MET:HG3	59:N3:102:ILE:CD1	2.41	0.47
59:N3:89:ASP:OD1	59:N3:91:VAL:HG13	2.15	0.47
71:O5:85:THR:O	71:O5:89:ARG:HB2	2.14	0.47
74:O8:41:THR:HG21	74:O8:62:ALA:HB2	1.97	0.47
1:6:74:U:O2	86:6:2192:OHX:N2	2.48	0.47
1:6:370:A:H5''	1:6:371:G:OP2	2.15	0.47
1:6:492:A:C2'	1:6:493:U:H5''	2.44	0.47
1:6:805:U:C2'	1:6:806:A:H5'	2.44	0.47
1:6:1009:U:OP2	16:c4:129:LYS:NZ	2.48	0.47
3:s1:189:ILE:H	3:s1:189:ILE:HG13	1.54	0.47
6:s4:71:LYS:HD2	6:s4:74:GLY:O	2.14	0.47
6:s4:72:VAL:HB	6:s4:77:ARG:HG3	1.96	0.47
6:s4:181:VAL:O	6:s4:192:ILE:HA	2.15	0.47
15:c3:128:TYR:HA	15:c3:131:THR:HB	1.97	0.47
20:c8:145:ARG:HD3	35:sM:68:ARG:NH2	2.30	0.47
30:d8:27:GLN:HE22	30:d8:64:ARG:NH1	2.13	0.47
36:5:112:U:O2'	36:5:113:C:OP2	2.30	0.47
36:5:313:A:C6	36:5:314:U:C4	3.02	0.47
36:5:853:G:N7	79:q3:2:ALA:HB2	2.30	0.47
36:5:1486:G:N2	70:o4:6:THR:HG22	2.30	0.47
36:5:1491:A:N6	75:o9:2:ALA:HA	2.30	0.47
36:5:1877:U:C5'	36:5:1878:G:H5'	2.45	0.47
36:5:2278:C:O2'	36:5:2279:A:H5''	2.15	0.47
36:5:2441:A:H61	36:5:2507:C:N4	2.12	0.47
36:5:2554:A:N7	79:q3:62:LYS:NZ	2.57	0.47
36:5:2700:G:H5''	57:n1:17:ARG:HG2	1.97	0.47
36:5:3092:C:O2'	36:5:3094:A:OP2	2.27	0.47
88:5:4248:BLS:H81	88:5:4248:BLS:H111	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:57:G:H3'	37:7:58:C:H6	1.80	0.47
40:13:218:ILE:CG1	40:13:276:THR:HG23	2.44	0.47
41:14:362:ASP:N	56:n0:26:ARG:HH12	2.13	0.47
42:15:269:SER:O	42:15:272:TYR:HD2	1.98	0.47
44:17:106:LEU:HD23	44:17:106:LEU:HA	1.53	0.47
46:19:17:THR:O	46:19:17:THR:OG1	2.32	0.47
47:m0:129:VAL:HG13	47:m0:133:GLN:HG2	1.97	0.47
52:m6:195:ALA:O	52:m6:197:LEU:N	2.48	0.47
55:m9:166:ASN:ND2	55:m9:167:ARG:HG2	2.25	0.47
57:n1:34:TYR:HE1	57:n1:98:HIS:CD2	2.34	0.47
59:n3:80:ARG:HH12	59:n3:116:GLY:HA3	1.78	0.47
68:o2:86:THR:HG23	68:o2:115:LEU:HD22	1.97	0.47
72:o6:58:ILE:HA	72:o6:61:ILE:HB	1.97	0.47
74:o8:12:LEU:C	74:o8:14:LEU:H	2.22	0.47
74:o8:62:ALA:O	74:o8:66:ILE:HG13	2.15	0.47
1:2:542:A:H8	1:2:543:C:H3'	1.78	0.46
1:2:720:G:H1'	1:2:721:U:H5''	1.98	0.46
1:2:850:A:OP1	55:M9:162:ARG:HG2	2.16	0.46
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.97	0.46
1:2:1536:G:C5	1:2:1538:U:H1'	2.50	0.46
1:2:1558:U:H3'	1:2:1559:A:H4'	1.97	0.46
1:2:1682:U:O2'	1:2:1683:C:H5'	2.15	0.46
1:2:1773:C:H2'	1:2:1774:G:H8	1.77	0.46
3:S1:219:LYS:HA	3:S1:219:LYS:HE2	1.96	0.46
5:S3:134:CYS:SG	5:S3:135:GLU:N	2.88	0.46
6:S4:87:MET:HE3	6:S4:123:LEU:HB2	1.97	0.46
8:S6:22:HIS:CG	40:L3:300:ARG:HH12	2.33	0.46
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.97	0.46
9:S7:156:SER:OG	9:S7:186:PRO:HG2	2.14	0.46
12:C0:15:LEU:HG	12:C0:68:LEU:HD22	1.97	0.46
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.15	0.46
21:C9:33:TYR:C	21:C9:33:TYR:CD1	2.94	0.46
36:1:86:G:O2'	36:1:98:G:O6	2.27	0.46
36:1:1605:A:O2'	36:1:1607:U:OP2	2.25	0.46
36:1:1743:G:C4	36:1:1744:G:C8	3.03	0.46
36:1:2108:C:O2'	36:1:3362:A:N6	2.48	0.46
36:1:2218:G:H2'	36:1:2219:A:H8	1.79	0.46
36:1:2747:A:OP1	42:L5:176:SER:OG	2.30	0.46
36:1:3006:A:C2	36:1:3141:A:C4	3.03	0.46
36:1:3191:G:C2	36:1:3202:G:C2	3.03	0.46
38:4:62:C:H4'	38:4:63:G:O5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.48	0.46
40:L3:43:LEU:HD22	40:L3:203:VAL:HG11	1.96	0.46
40:L3:137:TYR:CE2	40:L3:144:ILE:HG13	2.49	0.46
42:L5:222:LEU:H	42:L5:222:LEU:HG	1.46	0.46
45:L8:36:ILE:HG22	45:L8:37:GLY:N	2.25	0.46
47:M0:216:TYR:CD2	47:M0:217:PHE:N	2.83	0.46
52:M6:58:LEU:HA	52:M6:72:HIS:CD2	2.50	0.46
52:M6:124:LEU:O	52:M6:128:ARG:HB2	2.15	0.46
66:O0:61:MET:HG3	66:O0:62:LEU:N	2.29	0.46
78:Q2:35:LEU:C	78:Q2:37:ALA:H	2.22	0.46
1:6:219:A:C6	1:6:843:U:H1'	2.51	0.46
1:6:479:C:O2	1:6:510:G:N2	2.48	0.46
1:6:900:A:OP1	16:c4:43:THR:OG1	2.25	0.46
1:6:1099:U:H5''	24:d2:71:LYS:NZ	2.29	0.46
2:s0:71:GLU:O	2:s0:96:THR:HG22	2.14	0.46
4:s2:107:SER:HA	4:s2:190:LEU:O	2.15	0.46
20:c8:139:LYS:O	20:c8:143:ARG:NH1	2.47	0.46
25:d3:137:LYS:O	25:d3:139:LYS:N	2.49	0.46
34:sR:23:LEU:HD12	34:sR:291:SER:O	2.16	0.46
36:5:287:G:H2'	36:5:288:C:C6	2.49	0.46
36:5:549:U:H2'	36:5:550:A:H8	1.80	0.46
36:5:987:U:H2'	36:5:988:U:C6	2.50	0.46
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.15	0.46
36:5:1212:A:H1'	56:n0:114:HIS:CE1	2.50	0.46
36:5:2124:G:C2	36:5:2330:C:C2	3.03	0.46
36:5:2128:C:OP1	86:5:4085:OHX:N3	2.48	0.46
36:5:2236:G:H8	36:5:2236:G:O5'	1.97	0.46
36:5:3151:U:H4'	36:5:3294:A:H1'	1.96	0.46
36:5:3170:A:C2'	36:5:3171:U:H5'	2.44	0.46
36:5:3268:A:OP1	43:l6:46:ARG:NH2	2.47	0.46
86:5:4087:OHX:N1	38:8:18:U:OP1	2.48	0.46
39:l2:90:ALA:CB	39:l2:101:VAL:HG13	2.45	0.46
42:l5:51:LEU:HB2	42:l5:144:VAL:HG13	1.97	0.46
42:l5:86:TYR:CD1	42:l5:247:ILE:HA	2.50	0.46
45:l8:246:MET:HE2	45:l8:246:MET:HB3	1.72	0.46
47:m0:200:LEU:HB2	47:m0:213:PHE:CD2	2.50	0.46
48:m1:131:MET:HE3	48:m1:131:MET:HB3	1.74	0.46
49:m3:156:ALA:HA	64:n8:101:VAL:HG23	1.97	0.46
50:m4:94:TRP:CE2	50:m4:100:ALA:HB2	2.50	0.46
52:m6:65:ASN:OD1	52:m6:67:THR:HB	2.15	0.46
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:34:TYR:HD1	57:n1:98:HIS:CE1	2.33	0.46
57:n1:68:THR:HG23	57:n1:69:LYS:N	2.29	0.46
58:n2:33:TYR:CE2	58:n2:63:VAL:HG21	2.49	0.46
58:n2:90:ARG:HB3	58:n2:90:ARG:HH11	1.80	0.46
64:n8:104:THR:O	64:n8:109:TYR:HB2	2.14	0.46
66:o0:38:LYS:C	66:o0:93:LEU:HD23	2.39	0.46
72:o6:70:ARG:HD3	72:o6:84:LYS:HG3	1.97	0.46
74:o8:12:LEU:C	74:o8:14:LEU:N	2.72	0.46
1:2:237:C:H4'	1:2:238:U:C6	2.50	0.46
1:2:333:A:C6	1:2:334:G:C6	3.04	0.46
1:2:986:G:H2'	1:2:987:G:O4'	2.15	0.46
1:2:1187:U:O2'	1:2:1188:G:H5'	2.15	0.46
1:2:1573:A:H5'	1:2:1574:G:N2	2.31	0.46
5:S3:177:MET:HG3	5:S3:182:LEU:HD12	1.96	0.46
7:S5:209:TYR:O	7:S5:213:LYS:HG2	2.15	0.46
8:S6:73:ILE:HD12	8:S6:75:LEU:HD21	1.98	0.46
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	1.98	0.46
23:D1:62:ARG:HH11	23:D1:62:ARG:HB3	1.80	0.46
26:D4:122:GLY:O	26:D4:125:LEU:N	2.44	0.46
28:D6:30:ILE:HD11	28:D6:34:LYS:O	2.15	0.46
29:D7:61:THR:O	29:D7:62:ILE:HB	2.15	0.46
33:E1:91:ILE:HG12	33:E1:92:LYS:N	2.31	0.46
34:SR:166:SER:O	34:SR:166:SER:OG	2.24	0.46
34:SR:203:THR:HG21	34:SR:244:ALA:H	1.79	0.46
36:1:289:A:O2'	51:M5:93:LYS:O	2.32	0.46
36:1:291:C:OP1	51:M5:68:ARG:HB3	2.15	0.46
36:1:643:U:O2'	36:1:1153:A:N1	2.45	0.46
36:1:1635:G:N2	36:1:1638:A:OP2	2.43	0.46
36:1:1701:C:H2'	36:1:1702:U:O4'	2.14	0.46
36:1:3304:U:O3'	40:L3:334:ARG:NH2	2.48	0.46
37:3:4:U:H2'	37:3:5:G:C8	2.50	0.46
39:L2:190:ARG:HG2	39:L2:191:LEU:HD12	1.96	0.46
41:L4:142:VAL:C	41:L4:144:LYS:H	2.22	0.46
46:L9:26:LYS:HA	46:L9:35:THR:HG22	1.97	0.46
50:M4:24:LYS:HE2	50:M4:25:LYS:HZ2	1.80	0.46
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.50	0.46
52:M6:23:VAL:HG13	52:M6:33:ILE:HG21	1.96	0.46
61:N5:75:LYS:HD3	61:N5:123:TYR:CE1	2.48	0.46
63:N7:5:LEU:HD21	63:N7:82:PRO:HB3	1.97	0.46
63:N7:101:PHE:HB3	63:N7:107:ARG:HH21	1.81	0.46
66:O0:17:VAL:HG13	66:O0:95:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:102:THR:O	66:O0:102:THR:OG1	2.34	0.46
72:O6:37:THR:O	72:O6:41:ARG:HB2	2.15	0.46
1:6:212:U:OP2	86:6:2125:OHX:N1	2.49	0.46
1:6:217:A:O2'	1:6:218:A:H8	1.98	0.46
1:6:993:A:H5''	1:6:994:G:OP2	2.14	0.46
1:6:1220:C:H6	1:6:1220:C:OP2	1.98	0.46
1:6:1541:G:C6	1:6:1542:G:C6	3.04	0.46
9:s7:143:LEU:HD22	9:s7:143:LEU:HA	1.79	0.46
10:s8:82:VAL:CG1	10:s8:101:ILE:HG22	2.45	0.46
11:s9:117:GLY:C	11:s9:119:ALA:H	2.23	0.46
15:c3:101:HIS:CE1	15:c3:105:ASN:HB2	2.50	0.46
17:c5:77:ARG:HB3	17:c5:102:PHE:CE1	2.50	0.46
17:c5:86:VAL:HG22	17:c5:89:MET:HE3	1.96	0.46
20:c8:15:LEU:HD22	20:c8:22:VAL:O	2.15	0.46
24:d2:5:SER:HB3	24:d2:8:ALA:HB2	1.97	0.46
25:d3:70:LYS:HE3	80:e0:8:LEU:HA	1.96	0.46
34:sR:216:LYS:HA	34:sR:239:GLU:CG	2.45	0.46
35:sM:125:ALA:C	35:sM:127:ALA:H	2.24	0.46
36:5:290:G:H2'	36:5:291:C:H6	1.80	0.46
36:5:1074:U:O3'	36:5:1075:A:H8	1.98	0.46
36:5:1773:C:H2'	36:5:1774:C:H6	1.79	0.46
36:5:2187:G:OP2	86:5:3965:OHX:N4	2.48	0.46
36:5:3337:G:H2'	36:5:3338:C:H6	1.80	0.46
38:8:35:C:H5'	73:o7:70:VAL:HG11	1.98	0.46
42:l5:261:THR:C	42:l5:263:GLU:N	2.71	0.46
44:l7:40:LYS:HE2	44:l7:170:GLU:CD	2.40	0.46
48:m1:18:VAL:HG22	48:m1:70:THR:HG23	1.96	0.46
50:m4:45:LEU:HA	50:m4:57:ALA:HA	1.96	0.46
51:m5:54:LYS:O	51:m5:56:LYS:N	2.44	0.46
56:n0:115:ARG:N	56:n0:115:ARG:HD2	2.31	0.46
64:n8:133:LEU:HD22	64:n8:133:LEU:HA	1.61	0.46
71:o5:85:THR:HG22	71:o5:87:ALA:HB3	1.96	0.46
1:2:79:C:H4'	8:S6:173:PRO:O	2.15	0.46
1:2:538:A:H8	1:2:543:C:N4	2.12	0.46
1:2:753:A:H4'	6:S4:221:ARG:HE	1.79	0.46
1:2:820:U:H3'	1:2:821:U:H5''	1.96	0.46
1:2:967:A:H2'	1:2:968:U:O4'	2.15	0.46
1:2:1368:G:C5	1:2:1369:U:C4	3.03	0.46
1:2:1518:C:OP1	86:2:2120:OHX:N5	2.48	0.46
3:S1:70:LEU:HD11	3:S1:79:HIS:ND1	2.30	0.46
4:S2:66:PHE:CE2	4:S2:67:GLN:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:195:SER:O	5:S3:196:ARG:HG2	2.15	0.46
8:S6:137:ARG:O	8:S6:138:ALA:C	2.59	0.46
13:C1:56:LYS:H	13:C1:56:LYS:HG3	1.59	0.46
18:C6:40:GLU:HG3	18:C6:41:PRO:C	2.40	0.46
25:D3:54:LEU:HD21	25:D3:75:GLN:HG3	1.97	0.46
32:E0:43:ARG:HB3	32:E0:44:PHE:CD2	2.50	0.46
34:SR:83:ALA:HB1	34:SR:110:VAL:HG12	1.98	0.46
36:1:629:U:H2'	36:1:630:A:C8	2.51	0.46
36:1:660:A:H5''	41:L4:100:PHE:CD1	2.50	0.46
36:1:1062:A:H4'	57:N1:105:PHE:CE2	2.51	0.46
36:1:1361:U:OP1	41:L4:309:ARG:HG2	2.15	0.46
36:1:1444:G:C6	36:1:1445:U:C2	3.03	0.46
36:1:1820:U:H1'	36:1:1821:U:OP2	2.14	0.46
36:1:1834:U:OP1	75:O9:5:LYS:HE3	2.15	0.46
36:1:2307:G:H4'	36:1:2308:C:OP2	2.15	0.46
36:1:2375:G:O2'	36:1:2377:G:OP2	2.32	0.46
36:1:2378:C:H2'	36:1:2379:U:C6	2.51	0.46
36:1:3043:C:H2'	36:1:3044:G:O4'	2.15	0.46
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.30	0.46
86:1:4027:OHX:N2	86:1:4040:OHX:N1	2.64	0.46
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.96	0.46
50:M4:93:LYS:HB2	50:M4:93:LYS:HE3	1.71	0.46
58:N2:83:TYR:O	58:N2:86:LYS:N	2.38	0.46
59:N3:22:ILE:HD13	59:N3:35:TYR:HA	1.97	0.46
63:N7:81:LEU:HD22	63:N7:81:LEU:HA	1.83	0.46
72:O6:51:SER:HB2	72:O6:52:PRO:HD2	1.98	0.46
74:O8:15:THR:HB	74:O8:70:PRO:HG2	1.97	0.46
1:6:52:U:H2'	1:6:53:G:H8	1.80	0.46
1:6:109:G:O2'	1:6:796:A:N1	2.42	0.46
1:6:1152:A:H5''	28:d6:82:ARG:HH21	1.80	0.46
1:6:1185:U:C2	1:6:1458:G:N7	2.83	0.46
1:6:1523:G:H8	21:c9:79:LEU:HD13	1.79	0.46
4:s2:147:ASN:O	4:s2:149:GLY:N	2.48	0.46
7:s5:43:PHE:H	7:s5:46:TRP:H	1.64	0.46
9:s7:48:GLU:HG2	9:s7:56:LYS:HD3	1.98	0.46
9:s7:160:GLN:HA	9:s7:163:ASP:OD2	2.15	0.46
18:c6:79:TYR:O	18:c6:82:ARG:HG2	2.15	0.46
21:c9:74:GLY:O	21:c9:77:ASN:N	2.43	0.46
22:d0:101:LYS:HD3	22:d0:101:LYS:HA	1.73	0.46
29:d7:40:CYS:C	29:d7:42:ASN:H	2.24	0.46
36:5:173:G:N1	36:5:246:U:C2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:198:A:C6	36:5:219:A:C5	3.04	0.46
36:5:415:G:H2'	36:5:416:A:H8	1.79	0.46
36:5:1025:A:H2'	36:5:1025:A:N3	2.31	0.46
36:5:1448:U:O2'	36:5:1449:A:H5'	2.15	0.46
36:5:1631:C:H5''	36:5:1632:A:C5'	2.45	0.46
36:5:1814:A:OP1	86:5:4175:OHX:N3	2.48	0.46
36:5:1877:U:OP2	86:5:3950:OHX:N1	2.48	0.46
36:5:2790:A:OP2	54:m8:181:SER:HB3	2.14	0.46
37:7:4:U:H2'	37:7:5:G:H8	1.80	0.46
38:8:16:G:O6	86:8:215:OHX:N6	2.48	0.46
39:l2:10:LYS:HA	39:l2:16:PHE:CD2	2.51	0.46
39:l2:52:SER:HB3	39:l2:191:LEU:HD12	1.96	0.46
40:l3:356:LEU:H	40:l3:356:LEU:HG	1.57	0.46
44:l7:120:THR:C	44:l7:122:ALA:N	2.74	0.46
46:l9:36:LYS:HD2	46:l9:78:MET:HE2	1.97	0.46
50:m4:20:VAL:HG22	50:m4:68:LEU:HB2	1.96	0.46
51:m5:190:THR:O	51:m5:193:ARG:HB3	2.16	0.46
52:m6:54:TYR:CE2	52:m6:145:VAL:HG11	2.49	0.46
52:m6:62:THR:HB	52:m6:65:ASN:O	2.16	0.46
1:2:197:A:N6	10:S8:138:ASN:HD22	2.05	0.46
1:2:583:C:OP1	86:2:2026:OHX:N3	2.49	0.46
1:2:838:G:C6	1:2:839:U:C4	3.04	0.46
1:2:1009:U:OP1	16:C4:129:LYS:NZ	2.48	0.46
1:2:1207:C:H42	1:2:1456:C:H41	1.64	0.46
1:2:1252:C:N4	33:E1:97:LYS:HE3	2.30	0.46
86:2:2043:OHX:N4	86:2:2098:OHX:N6	2.63	0.46
4:S2:35:TRP:CD1	4:S2:35:TRP:C	2.92	0.46
6:S4:15:PRO:HD2	6:S4:18:TRP:CZ3	2.50	0.46
9:S7:91:ILE:HG12	9:S7:129:LEU:HD23	1.98	0.46
13:C1:75:VAL:HG12	13:C1:120:GLY:N	2.29	0.46
15:C3:88:LEU:HD22	15:C3:92:ILE:HD11	1.97	0.46
19:C7:84:TYR:O	19:C7:86:PRO:HD3	2.15	0.46
20:C8:80:LYS:HA	20:C8:80:LYS:NZ	2.30	0.46
36:1:155:G:H5''	36:1:156:G:C8	2.51	0.46
36:1:210:U:OP1	41:L4:161:LYS:HD2	2.16	0.46
36:1:217:U:O2	62:N6:103:LYS:NZ	2.45	0.46
36:1:992:A:N6	36:1:993:G:O6	2.48	0.46
36:1:2565:U:H2'	36:1:2566:C:C6	2.49	0.46
36:1:2802:A:C8	78:Q2:56:PRO:HA	2.51	0.46
36:1:3087:A:H2'	36:1:3088:G:C8	2.51	0.46
36:1:3153:U:H1'	36:1:3158:G:C5	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:l:3988:OHX:N5	37:3:86:U:O2	2.49	0.46
40:l3:320:ASP:OD2	40:l3:320:ASP:N	2.31	0.46
41:l4:150:LEU:HB3	41:l4:249:ILE:HG23	1.98	0.46
43:l6:19:LYS:HE3	43:l6:19:LYS:HB3	1.70	0.46
44:l7:77:VAL:HG22	57:n1:139:ARG:HG2	1.97	0.46
45:l8:33:ASN:O	45:l8:39:ALA:HB3	2.16	0.46
47:m0:48:LEU:HD22	47:m0:49:CYS:N	2.30	0.46
55:m9:108:LYS:HA	55:m9:111:ASP:HB2	1.97	0.46
59:n3:54:LEU:HA	59:n3:54:LEU:HD12	1.58	0.46
59:n3:102:ILE:HD11	59:n3:110:LYS:HD3	1.97	0.46
64:n8:74:ASN:ND2	64:n8:113:LEU:HB2	2.30	0.46
67:o1:16:LEU:HA	67:o1:16:LEU:HD12	1.39	0.46
79:q3:49:ARG:CG	79:q3:50:GLY:H	2.29	0.46
1:6:542:A:H1'	1:6:543:C:H5'	1.97	0.46
1:6:763:G:H2'	1:6:764:U:C6	2.50	0.46
1:6:886:U:C2	1:6:887:A:C8	3.04	0.46
1:6:1322:A:H2'	1:6:1323:C:C6	2.50	0.46
1:6:1368:G:OP1	21:c9:69:LYS:NZ	2.47	0.46
2:s0:8:ASP:C	2:s0:54:TRP:HE1	2.23	0.46
3:s1:118:GLN:OE1	3:s1:208:GLN:NE2	2.49	0.46
4:s2:164:SER:O	4:s2:202:GLY:HA3	2.16	0.46
5:s3:124:ARG:NH2	35:sM:128:ALA:HB2	2.31	0.46
8:s6:154:ARG:C	8:s6:156:PHE:H	2.23	0.46
9:s7:27:LEU:C	9:s7:29:ASN:H	2.24	0.46
15:c3:34:ILE:HA	15:c3:37:ILE:HD12	1.97	0.46
24:d2:15:ASN:O	24:d2:19:LYS:HG3	2.16	0.46
36:5:1686:U:O4	58:n2:82:LYS:NZ	2.42	0.46
36:5:1739:U:H1'	70:o4:41:ARG:CZ	2.45	0.46
36:5:2186:U:H2'	36:5:2187:G:O4'	2.16	0.46
36:5:2264:U:OP1	86:5:3949:OHX:N4	2.49	0.46
36:5:3192:U:O4	86:5:4139:OHX:N6	2.48	0.46
36:5:3288:G:O2'	36:5:3289:G:OP2	2.27	0.46
39:l2:86:GLN:HG2	39:l2:88:ILE:CD1	2.46	0.46
40:l3:167:ARG:O	86:l3:404:OHX:N5	2.48	0.46
40:l3:244:ARG:HB3	40:l3:244:ARG:NH1	2.31	0.46
43:l6:52:VAL:HG13	43:l6:65:ILE:HG23	1.97	0.46
45:l8:110:THR:O	45:l8:114:ALA:HB3	2.15	0.46
52:m6:124:LEU:HD12	52:m6:124:LEU:HA	1.73	0.46
53:m7:4:TYR:CE1	53:m7:16:SER:HB2	2.51	0.46
58:n2:59:ASP:N	58:n2:59:ASP:OD2	2.45	0.46
59:n3:87:ARG:HH12	59:n3:137:VAL:CG1	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:87:ARG:HB2	59:n3:89:ASP:OD1	2.15	0.46
63:n7:95:VAL:HG11	63:n7:113:VAL:HG21	1.98	0.46
67:o1:87:ASN:OD1	67:o1:88:PRO:HD2	2.16	0.46
1:2:1039:A:N6	1:2:1091:A:C2	2.84	0.46
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.95	0.46
1:2:1477:G:N2	1:2:1530:C:O2	2.48	0.46
1:2:1525:A:OP1	21:C9:93:HIS:ND1	2.48	0.46
1:2:1553:G:N2	1:2:1555:A:H3'	2.31	0.46
1:2:1615:C:H4'	1:2:1616:G:O5'	2.15	0.46
6:S4:158:ASP:HB3	6:S4:173:ILE:O	2.16	0.46
10:S8:50:GLY:O	10:S8:52:ASN:ND2	2.31	0.46
12:C0:3:MET:HE3	12:C0:8:ARG:HD3	1.98	0.46
17:C5:25:LEU:HA	17:C5:28:MET:SD	2.56	0.46
17:C5:128:HIS:HB2	35:SM:71:ASN:CG	2.40	0.46
17:C5:130:ARG:CD	35:SM:74:LYS:HG2	2.45	0.46
19:C7:71:PHE:HE1	19:C7:73:LEU:HD22	1.80	0.46
24:D2:53:ILE:HD11	29:D7:24:LEU:O	2.16	0.46
27:D5:42:LEU:O	27:D5:46:LYS:HB2	2.15	0.46
34:SR:34:LEU:HD13	34:SR:94:VAL:HG22	1.98	0.46
34:SR:260:ILE:HB	34:SR:274:LEU:HB2	1.98	0.46
36:1:664:U:H2'	36:1:665:A:C8	2.50	0.46
36:1:970:A:H1'	36:1:1112:A:N1	2.30	0.46
36:1:1246:G:H2'	36:1:1247:U:O4'	2.15	0.46
36:1:1949:G:H2'	36:1:1950:U:C6	2.51	0.46
86:1:4023:OHX:N2	86:1:4143:OHX:N5	2.63	0.46
39:L2:219:ILE:HD13	39:L2:223:SER:HB2	1.97	0.46
41:L4:192:GLY:HA2	41:L4:195:ARG:HB2	1.97	0.46
41:L4:300:ARG:HE	54:M8:39:ARG:HA	1.80	0.46
44:L7:217:PRO:HG2	44:L7:218:ARG:H	1.81	0.46
48:M1:155:THR:OG1	48:M1:158:ASP:HB2	2.15	0.46
50:M4:39:ILE:HG13	50:M4:44:VAL:HA	1.97	0.46
53:M7:13:LYS:HD2	53:M7:152:GLU:OE1	2.15	0.46
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.98	0.46
54:M8:166:LEU:HD23	54:M8:166:LEU:HA	1.44	0.46
55:M9:84:THR:C	55:M9:86:GLU:N	2.74	0.46
59:N3:33:ASN:HD21	59:N3:64:LYS:N	2.12	0.46
65:N9:7:HIS:CG	65:N9:8:THR:N	2.84	0.46
67:O1:51:LEU:HB3	67:O1:55:LEU:HD12	1.98	0.46
74:O8:8:ILE:HG12	74:O8:61:LYS:NZ	2.31	0.46
79:Q3:55:TRP:CD2	79:Q3:71:VAL:HG13	2.51	0.46
1:6:93:A:C6	1:6:398:G:C6	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:492:A:H1'	1:6:496:G:H1	1.81	0.46
1:6:542:A:H1'	1:6:543:C:P	2.55	0.46
1:6:720:G:H5''	1:6:720:G:N3	2.31	0.46
1:6:1182:U:N3	1:6:1185:U:OP2	2.42	0.46
6:s4:72:VAL:HG12	6:s4:73:ASP:HB2	1.98	0.46
7:s5:215:ASP:O	7:s5:219:ARG:HB2	2.16	0.46
16:c4:31:THR:HA	16:c4:38:THR:HA	1.98	0.46
24:d2:111:MET:HG3	24:d2:112:ASP:O	2.16	0.46
25:d3:52:ILE:HG22	25:d3:99:ASN:HA	1.98	0.46
25:d3:79:ASN:OD1	25:d3:81:LYS:HG3	2.15	0.46
26:d4:104:SER:O	26:d4:108:ARG:N	2.43	0.46
36:5:180:C:C2'	36:5:181:U:H5'	2.46	0.46
36:5:974:G:H5'	54:m8:16:ARG:HG3	1.97	0.46
36:5:1386:A:N3	41:l4:180:LYS:HA	2.30	0.46
36:5:1613:A:OP1	74:o8:2:ALA:N	2.48	0.46
36:5:1765:U:OP2	55:m9:39:ASN:ND2	2.49	0.46
36:5:2767:U:OP1	78:q2:33:ALA:HA	2.15	0.46
36:5:2806:U:C2	36:5:2807:U:C5	3.03	0.46
86:5:4029:OHX:N6	86:5:4232:OHX:N2	2.64	0.46
39:l2:104:LEU:HD22	39:l2:158:ILE:HD11	1.97	0.46
40:l3:214:MET:HE3	40:l3:279:ASN:C	2.39	0.46
43:l6:47:PHE:HE2	43:l6:77:ARG:NE	2.13	0.46
52:m6:174:PHE:O	52:m6:177:LYS:N	2.48	0.46
53:m7:13:LYS:O	53:m7:151:THR:HA	2.16	0.46
54:m8:35:PHE:CZ	54:m8:39:ARG:HG3	2.50	0.46
55:m9:4:LEU:HA	55:m9:7:GLN:NE2	2.30	0.46
55:m9:149:ALA:O	55:m9:150:GLN:NE2	2.36	0.46
69:o3:47:LYS:HA	69:o3:104:PRO:HD2	1.97	0.46
81:p0:25:LEU:HB3	81:p0:191:TYR:HB3	1.96	0.46
1:2:127:G:C6	8:S6:195:VAL:HG13	2.51	0.46
1:2:329:G:O6	86:2:2106:OHX:N6	2.49	0.46
1:2:500:C:C5	1:2:501:U:C4	3.04	0.46
1:2:833:U:H5'	1:2:834:G:H5''	1.96	0.46
1:2:1383:G:H1'	22:D0:57:ARG:HH12	1.79	0.46
1:2:1440:C:H2'	1:2:1441:C:H6	1.80	0.46
3:S1:135:LEU:HD13	3:S1:137:ILE:HG23	1.98	0.46
3:S1:218:LEU:HD23	3:S1:219:LYS:H	1.80	0.46
6:S4:18:TRP:CE3	6:S4:20:LEU:HD11	2.49	0.46
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.97	0.46
13:C1:91:LEU:HD13	13:C1:92:HIS:N	2.30	0.46
20:C8:73:MET:HB3	20:C8:101:LEU:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:21:PHE:HD2	21:C9:22:LEU:HD13	1.80	0.46
21:C9:121:GLY:O	21:C9:122:ARG:HD3	2.16	0.46
25:D3:91:GLY:N	32:E0:12:GLY:HA2	2.31	0.46
30:D8:13:ILE:HG13	30:D8:29:ARG:O	2.16	0.46
36:1:352:A:H61	36:1:365:A:H5''	1.81	0.46
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.16	0.46
36:1:1669:C:OP1	70:O4:24:LYS:HE2	2.16	0.46
36:1:2278:C:C2'	36:1:2279:A:H5''	2.45	0.46
36:1:2386:A:H2'	36:1:2387:A:O4'	2.16	0.46
36:1:2778:G:C2'	36:1:2779:A:H5'	2.45	0.46
36:1:2942:C:H5''	36:1:2943:G:H5''	1.96	0.46
36:1:2987:A:H2'	36:1:2988:C:C6	2.51	0.46
36:1:3358:U:H2'	36:1:3359:A:C1'	2.45	0.46
38:4:57:C:O2'	38:4:58:G:H5'	2.16	0.46
39:L2:44:ILE:HD12	39:L2:62:VAL:O	2.16	0.46
40:L3:20:LYS:HG3	40:L3:21:ARG:O	2.16	0.46
40:L3:62:ARG:CZ	40:L3:349:LYS:HD2	2.45	0.46
41:L4:80:GLY:O	41:L4:82:THR:HG22	2.15	0.46
42:L5:50:ARG:HB3	42:L5:147:ASP:HB2	1.98	0.46
45:L8:178:ALA:HB2	45:L8:218:ILE:HG23	1.96	0.46
47:M0:34:TYR:N	47:M0:34:TYR:CD1	2.84	0.46
50:M4:6:ILE:HD13	50:M4:6:ILE:HA	1.74	0.46
55:M9:138:LEU:O	55:M9:142:ILE:HG13	2.15	0.46
55:M9:175:GLN:HA	55:M9:178:ALA:HB3	1.97	0.46
69:O3:103:TYR:HA	69:O3:105:SER:N	2.30	0.46
74:O8:70:PRO:HA	74:O8:71:PRO:HD2	1.67	0.46
1:6:97:C:O2	1:6:425:A:O2'	2.25	0.46
1:6:1347:U:OP2	22:d0:23:ARG:NH2	2.36	0.46
1:6:1406:A:H2'	1:6:1407:U:H6	1.81	0.46
1:6:1515:A:O2'	1:6:1517:U:OP2	2.25	0.46
1:6:1533:C:OP2	27:d5:77:ARG:NH1	2.48	0.46
1:6:1534:G:H4'	1:6:1536:G:O6	2.15	0.46
4:s2:101:VAL:HG22	4:s2:115:ILE:HG12	1.96	0.46
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.97	0.46
13:c1:7:VAL:HB	13:c1:8:GLN:H	1.65	0.46
13:c1:104:HIS:O	13:c1:105:LYS:HG2	2.16	0.46
21:c9:57:ARG:HH22	21:c9:80:TYR:HB3	1.81	0.46
30:d8:44:VAL:HG21	30:d8:48:VAL:CG2	2.46	0.46
36:5:517:G:P	44:l7:60:ARG:HH22	2.39	0.46
36:5:1025:A:H5'	36:5:1026:A:OP2	2.15	0.46
36:5:1898:G:OP2	86:5:3938:OHX:N5	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2304:C:C5	36:5:2305:G:C6	3.04	0.46
36:5:2437:G:C6	36:5:2511:A:C6	3.03	0.46
36:5:2760:C:N3	78:q2:63:LYS:HE3	2.31	0.46
36:5:3165:A:N1	36:5:3285:C:N3	2.64	0.46
40:l3:293:ASN:HD22	40:l3:305:ILE:HG22	1.80	0.46
41:l4:128:ALA:HB1	41:l4:134:LEU:HD12	1.96	0.46
47:m0:77:THR:C	47:m0:79:VAL:H	2.24	0.46
51:m5:6:TYR:CE2	72:o6:40:VAL:HG22	2.51	0.46
56:n0:42:TRP:O	56:n0:46:GLN:HG3	2.16	0.46
56:n0:46:GLN:HG2	56:n0:51:VAL:O	2.16	0.46
58:n2:17:VAL:HB	58:n2:63:VAL:HG23	1.96	0.46
59:n3:120:LYS:O	59:n3:124:ASP:HB2	2.15	0.46
75:o9:8:ARG:O	75:o9:11:GLN:HB3	2.16	0.46
81:p0:105:VAL:HG23	81:p0:184:GLY:N	2.30	0.46
1:2:276:C:O2'	1:2:277:U:H5''	2.15	0.46
1:2:431:C:H3'	1:2:432:G:H8	1.80	0.46
1:2:516:G:N2	1:2:537:G:H1'	2.31	0.46
1:2:681:U:C4	1:2:682:C:C5	3.04	0.46
1:2:1235:C:C2	33:E1:138:ARG:NH2	2.84	0.46
1:2:1788:G:P	16:C4:127:ARG:HH22	2.36	0.46
2:S0:9:LEU:HD21	2:S0:14:ALA:HB2	1.96	0.46
7:S5:91:GLU:HA	7:S5:94:THR:HG23	1.97	0.46
7:S5:166:ARG:HD2	30:D8:46:GLY:CA	2.46	0.46
7:S5:216:GLU:OE2	7:S5:219:ARG:NH2	2.49	0.46
8:S6:175:ILE:H	8:S6:175:ILE:HG12	1.55	0.46
10:S8:34:ALA:O	10:S8:35:ASN:C	2.58	0.46
13:C1:109:VAL:HA	13:C1:135:VAL:HG13	1.98	0.46
19:C7:100:LEU:H	19:C7:118:PRO:HG2	1.80	0.46
23:D1:79:LEU:HD23	23:D1:79:LEU:HA	1.70	0.46
34:SR:6:VAL:HG22	34:SR:7:LEU:H	1.81	0.46
35:SM:86:ASN:HD21	35:SM:89:ARG:HB2	1.80	0.46
36:1:1139:G:C5	36:1:1140:G:C8	3.04	0.46
36:1:1547:G:OP1	51:M5:108:ARG:NH2	2.46	0.46
36:1:2206:G:N2	36:1:2237:C:N3	2.47	0.46
36:1:2397:A:C2	36:1:2873:U:H5'	2.50	0.46
36:1:2417:U:H2'	36:1:2606:G:N2	2.31	0.46
36:1:2988:C:P	52:M6:68:ARG:NH1	2.88	0.46
36:1:3152:U:O2	86:1:4141:OHX:N4	2.49	0.46
36:1:3386:G:H2'	36:1:3387:U:H6	1.80	0.46
37:3:9:C:H5''	37:3:10:C:OP2	2.16	0.46
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:15:LEU:O	52:M6:18:ARG:N	2.47	0.46
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.16	0.46
53:M7:87:SER:O	53:M7:88:VAL:C	2.59	0.46
54:M8:21:SER:OG	54:M8:22:ASP:N	2.46	0.46
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.51	0.46
58:N2:95:PHE:C	58:N2:95:PHE:CD2	2.93	0.46
63:N7:5:LEU:HD22	63:N7:25:ILE:HD12	1.98	0.46
64:N8:74:ASN:ND2	64:N8:115:LYS:HB2	2.31	0.46
71:O5:9:LEU:O	71:O5:12:LYS:N	2.47	0.46
73:O7:27:PHE:HA	73:O7:34:CYS:HA	1.97	0.46
1:6:37:U:O2'	1:6:770:A:N1	2.40	0.46
1:6:790:U:H2'	1:6:791:A:H8	1.81	0.46
1:6:1268:G:H1'	1:6:1448:G:H5''	1.97	0.46
1:6:1354:G:C6	1:6:1355:C:C4	3.04	0.46
1:6:1358:G:H2'	1:6:1359:C:C6	2.51	0.46
1:6:1614:A:C6	1:6:1615:C:N4	2.84	0.46
2:s0:140:ASN:OD1	4:s2:62:PRO:HD3	2.15	0.46
3:s1:33:LYS:HB3	3:s1:232:HIS:HE1	1.80	0.46
3:s1:190:PRO:HG2	3:s1:192:VAL:HG23	1.98	0.46
20:c8:27:LYS:O	20:c8:31:ALA:N	2.37	0.46
24:d2:20:THR:OG1	24:d2:22:LYS:HD3	2.16	0.46
28:d6:8:ASN:N	28:d6:8:ASN:OD1	2.48	0.46
29:d7:80:ARG:HG2	29:d7:81:ARG:N	2.31	0.46
34:sR:91:LEU:HG	34:sR:100:TYR:HB2	1.98	0.46
36:5:118:U:O2	36:5:121:A:H5'	2.16	0.46
36:5:201:A:H2'	36:5:202:G:H8	1.80	0.46
36:5:373:A:OP1	86:5:4145:OHX:N6	2.49	0.46
36:5:409:A:OP2	86:5:4097:OHX:N3	2.48	0.46
36:5:799:G:H2'	36:5:801:A:N7	2.31	0.46
36:5:883:A:H5'	53:m7:133:HIS:HA	1.98	0.46
36:5:1263:A:N3	36:5:1263:A:H2'	2.30	0.46
36:5:2509:U:H2'	36:5:2510:U:C5'	2.45	0.46
36:5:2568:C:O2'	36:5:2569:A:O5'	2.31	0.46
36:5:3107:U:P	76:q0:112:LYS:NZ	2.88	0.46
86:5:3971:OHX:N4	86:5:4193:OHX:N3	2.64	0.46
86:5:3994:OHX:N3	86:5:4085:OHX:N5	2.63	0.46
37:7:92:A:H5''	37:7:93:C:OP2	2.15	0.46
40:l3:84:VAL:HG22	40:l3:162:VAL:HB	1.97	0.46
44:l7:120:THR:C	44:l7:122:ALA:H	2.23	0.46
49:m3:64:LYS:HD3	49:m3:65:TYR:CE1	2.51	0.46
68:o2:97:ALA:O	68:o2:100:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:540:G:H4'	1:2:541:A:H3'	1.97	0.46
1:2:1203:A:C4	1:2:1556:A:C2	3.04	0.46
1:2:1550:A:H2'	1:2:1551:U:C6	2.51	0.46
3:S1:196:GLU:O	3:S1:199:ASN:HB2	2.16	0.46
5:S3:62:ASN:OD1	5:S3:62:ASN:N	2.47	0.46
7:S5:220:VAL:HA	7:S5:223:SER:HB3	1.97	0.46
9:S7:4:PRO:HA	9:S7:7:LYS:HD3	1.98	0.46
9:S7:170:GLN:HG2	9:S7:181:ILE:HG22	1.97	0.46
13:C1:100:TYR:HB2	25:D3:10:ASN:OD1	2.16	0.46
14:C2:136:ILE:HA	14:C2:139:HIS:HB3	1.98	0.46
18:C6:35:PRO:HG2	18:C6:38:LEU:HG	1.98	0.46
21:C9:10:ALA:O	21:C9:13:ASP:N	2.49	0.46
23:D1:32:VAL:HB	23:D1:60:ARG:HD3	1.96	0.46
25:D3:104:LEU:HD23	25:D3:104:LEU:HA	1.77	0.46
28:D6:4:LYS:HE2	28:D6:5:ARG:NH2	2.31	0.46
28:D6:9:GLY:O	28:D6:10:ARG:HG3	2.16	0.46
34:SR:187:GLN:HG2	34:SR:187:GLN:O	2.16	0.46
36:1:386:A:C5	36:1:387:A:H1'	2.51	0.46
36:1:568:G:N7	86:1:3936:OHX:N4	2.64	0.46
36:1:729:C:H2'	36:1:730:C:C6	2.45	0.46
36:1:1020:G:O6	36:1:1032:C:N4	2.39	0.46
36:1:1340:G:H2'	36:1:1341:U:H6	1.81	0.46
36:1:1439:U:H2'	36:1:1440:G:C8	2.50	0.46
36:1:1734:G:N7	86:1:3908:OHX:N5	2.63	0.46
36:1:1801:U:O5'	36:1:1801:U:H6	1.99	0.46
36:1:2424:A:H2'	36:1:2425:G:O4'	2.16	0.46
36:1:2991:A:P	40:L3:20:LYS:HB2	2.56	0.46
36:1:3024:A:H4'	46:L9:97:PHE:CE2	2.51	0.46
36:1:3087:A:P	86:1:4178:OHX:N5	2.89	0.46
36:1:3155:U:O2	86:1:4141:OHX:N3	2.49	0.46
38:4:55:U:O2	86:4:229:OHX:N6	2.49	0.46
38:4:56:G:H2'	38:4:57:C:C6	2.51	0.46
39:L2:96:LEU:HD11	39:L2:107:VAL:HG12	1.98	0.46
41:L4:269:SER:O	41:L4:269:SER:OG	2.32	0.46
44:L7:25:GLN:N	44:L7:28:ALA:HB3	2.31	0.46
45:L8:63:LYS:HG3	45:L8:67:ILE:HD11	1.98	0.46
46:L9:101:VAL:HG12	46:L9:136:PHE:HZ	1.81	0.46
47:M0:134:ILE:HD11	57:N1:160:ILE:HD11	1.96	0.46
51:M5:10:LEU:HD22	51:M5:19:LEU:HD13	1.97	0.46
53:M7:171:ARG:HB2	53:M7:171:ARG:HH11	1.80	0.46
57:N1:57:TYR:CE1	57:N1:89:LEU:HD11	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:24:LEU:HB3	61:N5:25:LYS:H	1.33	0.46
63:N7:11:ALA:HB1	63:N7:80:LEU:HB3	1.97	0.46
1:6:192:U:O4	10:s8:137:LYS:NZ	2.27	0.46
1:6:439:U:O4'	1:6:465:G:N2	2.48	0.46
1:6:961:U:H5''	15:c3:71:ILE:HD12	1.97	0.46
1:6:1228:G:OP1	14:c2:45:LEU:HB2	2.16	0.46
1:6:1446:A:O2'	1:6:1447:C:H5''	2.15	0.46
1:6:1488:G:H3'	1:6:1515:A:H61	1.79	0.46
7:s5:84:LYS:O	7:s5:92:ARG:HD2	2.15	0.46
8:s6:73:ILE:HD11	8:s6:75:LEU:HD21	1.98	0.46
9:s7:15:GLU:O	9:s7:19:GLN:HG3	2.15	0.46
9:s7:105:THR:O	9:s7:107:ARG:N	2.48	0.46
10:s8:184:LEU:HA	10:s8:184:LEU:HD12	1.65	0.46
11:s9:124:HIS:CE1	11:s9:128:LEU:HD11	2.51	0.46
15:c3:39:LYS:HD2	15:c3:40:TYR:CD1	2.50	0.46
20:c8:136:GLN:H	20:c8:136:GLN:CD	2.21	0.46
24:d2:37:PHE:CE2	24:d2:103:ILE:HD11	2.51	0.46
28:d6:26:CYS:HB2	28:d6:28:LYS:H	1.80	0.46
30:d8:25:VAL:HG11	30:d8:43:ASN:HB3	1.98	0.46
80:e0:20:LYS:HD2	80:e0:21:VAL:N	2.31	0.46
34:sR:205:SER:O	34:sR:208:GLY:N	2.46	0.46
34:sR:262:VAL:O	34:sR:271:VAL:N	2.47	0.46
36:5:31:C:H4'	51:m5:96:ARG:HD2	1.98	0.46
36:5:415:G:H2'	36:5:416:A:C8	2.51	0.46
36:5:550:A:C6	36:5:551:A:C6	3.04	0.46
36:5:1213:G:P	56:n0:137:ARG:NH1	2.88	0.46
36:5:1296:C:H5'	56:n0:115:ARG:NH1	2.30	0.46
36:5:1439:U:H2'	36:5:1440:G:C8	2.51	0.46
36:5:1579:C:O5'	39:l2:68:LYS:NZ	2.47	0.46
36:5:2232:A:O2'	36:5:2429:G:H5'	2.15	0.46
36:5:2534:G:H1	36:5:2545:C:H42	1.63	0.46
36:5:3006:A:H2'	36:5:3007:U:O4'	2.15	0.46
37:7:36:C:C5'	42:l5:155:THR:HG23	2.46	0.46
38:8:88:A:H5''	38:8:89:A:OP2	2.16	0.46
38:8:145:U:H2'	38:8:146:U:O4'	2.16	0.46
40:l3:332:ARG:O	40:l3:333:LYS:HB2	2.16	0.46
43:l6:102:ASN:OD1	43:l6:102:ASN:N	2.47	0.46
44:l7:142:SER:HG	44:l7:241:LYS:HZ1	1.62	0.46
45:l8:158:ASP:HA	45:l8:159:PRO:C	2.40	0.46
49:m3:168:ARG:HG3	49:m3:172:LEU:HG	1.96	0.46
59:n3:74:MET:HE2	59:n3:74:MET:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:n4:129:LYS:O	60:n4:133:THR:N	2.48	0.46
61:n5:40:LEU:HD13	61:n5:40:LEU:HA	1.71	0.46
66:o0:46:ALA:O	66:o0:48:THR:N	2.49	0.46
66:o0:65:THR:O	66:o0:67:VAL:HG23	2.16	0.46
69:o3:85:PHE:CZ	69:o3:89:LEU:HD11	2.51	0.46
69:o3:107:ILE:HA	69:o3:107:ILE:HD12	1.74	0.46
70:o4:94:LEU:HD23	70:o4:94:LEU:HA	1.71	0.46
72:o6:70:ARG:HD3	72:o6:84:LYS:CG	2.46	0.46
81:p0:89:THR:OG1	81:p0:90:ASN:N	2.48	0.46
1:2:131:C:O2'	1:2:132:U:OP1	2.28	0.46
1:2:197:A:H61	10:S8:138:ASN:ND2	2.07	0.46
1:2:761:G:O2'	1:2:789:A:N6	2.49	0.46
1:2:1530:C:H2'	1:2:1531:G:O4'	2.16	0.46
2:S0:110:TYR:C	2:S0:112:THR:H	2.23	0.46
2:S0:167:LYS:HG2	2:S0:168:HIS:CD2	2.51	0.46
5:S3:105:MET:HE2	5:S3:105:MET:HB3	1.69	0.46
8:S6:58:LYS:O	8:S6:59:GLN:HB2	2.16	0.46
17:C5:86:VAL:O	17:C5:89:MET:HG3	2.16	0.46
28:D6:66:LYS:HE2	28:D6:66:LYS:HB2	1.78	0.46
33:E1:136:LYS:O	33:E1:138:ARG:HB2	2.16	0.46
36:1:966:U:N3	36:1:967:A:N7	2.63	0.46
36:1:1431:G:N7	64:N8:9:ARG:NH2	2.63	0.46
36:1:1614:C:H2'	36:1:1615:C:H6	1.81	0.46
36:1:1658:G:O4'	36:1:1796:G:H2'	2.15	0.46
36:1:2767:U:O4	86:1:4033:OHX:N6	2.49	0.46
86:1:4027:OHX:N6	86:1:4040:OHX:N3	2.64	0.46
39:L2:179:LEU:O	39:L2:184:ARG:HG3	2.16	0.46
40:L3:243:HIS:ND1	40:L3:244:ARG:N	2.63	0.46
41:L4:31:ARG:HB3	41:L4:34:ILE:HG13	1.98	0.46
42:L5:88:ILE:HD11	42:L5:240:TYR:CD1	2.51	0.46
42:L5:211:LEU:C	42:L5:213:ASP:H	2.24	0.46
45:L8:136:LEU:HD11	45:L8:162:LEU:O	2.16	0.46
46:L9:7:GLU:HG2	46:L9:8:GLN:N	2.29	0.46
53:M7:10:ASN:OD1	53:M7:12:ALA:HB3	2.15	0.46
53:M7:26:PHE:CD1	53:M7:26:PHE:C	2.94	0.46
62:N6:91:ASN:O	62:N6:93:ALA:N	2.49	0.46
64:N8:94:ALA:HB1	64:N8:121:VAL:HG13	1.98	0.46
72:O6:11:LEU:HD12	72:O6:11:LEU:HA	1.80	0.46
73:O7:11:ARG:HH11	73:O7:11:ARG:HB3	1.80	0.46
1:6:76:A:H3'	86:6:2192:OHX:N1	2.31	0.46
1:6:1315:U:C4	1:6:1316:G:N7	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1742:U:C4	1:6:1743:U:C5	3.03	0.46
5:s3:133:GLY:HA3	5:s3:156:PHE:O	2.16	0.46
6:s4:159:THR:CG2	6:s4:173:ILE:HB	2.44	0.46
6:s4:195:ILE:HA	6:s4:210:ILE:HD13	1.98	0.46
8:s6:39:GLU:OE2	8:s6:46:LYS:HG3	2.16	0.46
11:s9:64:GLU:HG3	11:s9:69:ARG:NH2	2.30	0.46
14:c2:46:ARG:HE	33:e1:102:VAL:HG21	1.81	0.46
16:c4:16:VAL:HG22	16:c4:32:ASP:O	2.16	0.46
17:c5:17:TYR:HB2	17:c5:25:LEU:HD11	1.97	0.46
36:5:290:G:H4'	51:m5:69:GLY:O	2.15	0.46
36:5:355:A:H2'	36:5:356:C:O4'	2.16	0.46
36:5:1055:A:H4'	37:7:100:C:O2	2.15	0.46
36:5:1151:U:OP1	86:5:4206:OHX:N1	2.48	0.46
36:5:1220:U:O2	36:5:1222:G:N1	2.49	0.46
36:5:1591:G:O2'	36:5:1799:A:N1	2.44	0.46
36:5:2550:U:H5	39:l2:40:TYR:O	1.99	0.46
36:5:2738:A:H2'	36:5:2739:A:C8	2.51	0.46
36:5:2960:C:H2'	36:5:2961:G:C8	2.51	0.46
40:l3:128:LYS:O	40:l3:131:THR:HG23	2.16	0.46
40:l3:148:LEU:HD12	40:l3:148:LEU:HA	1.63	0.46
44:l7:49:ALA:O	44:l7:52:GLN:HB3	2.14	0.46
44:l7:82:LYS:O	44:l7:119:VAL:HG23	2.16	0.46
44:l7:160:ARG:HG3	44:l7:203:TRP:CD2	2.51	0.46
48:m1:15:GLU:HB3	48:m1:130:VAL:HG22	1.97	0.46
51:m5:184:LYS:HG2	51:m5:185:ALA:N	2.28	0.46
57:n1:97:LYS:HG2	57:n1:98:HIS:H	1.80	0.46
57:n1:147:VAL:HA	57:n1:148:PRO:HD3	1.78	0.46
58:n2:56:VAL:HG22	58:n2:65:VAL:HG22	1.98	0.46
67:o1:9:THR:HG22	67:o1:109:VAL:HB	1.98	0.46
68:o2:82:LEU:HD11	68:o2:112:ALA:HB2	1.98	0.46
1:2:154:G:H5'	8:S6:108:VAL:HG21	1.97	0.46
1:2:1231:U:C4	1:2:1255:G:N2	2.84	0.46
1:2:1542:G:H5''	21:C9:87:GLY:C	2.41	0.46
1:2:1774:G:N7	77:Q1:4:LYS:NZ	2.54	0.46
1:2:1783:C:C5	77:Q1:5:TRP:CD1	3.04	0.46
7:S5:129:PRO:O	7:S5:133:VAL:HG23	2.16	0.46
7:S5:166:ARG:HD2	30:D8:46:GLY:HA2	1.98	0.46
14:C2:64:SER:OG	14:C2:65:SER:N	2.49	0.46
15:C3:119:GLU:O	15:C3:122:ILE:HB	2.16	0.46
19:C7:53:TYR:CE1	19:C7:57:LEU:HD21	2.50	0.46
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:48:VAL:HG13	30:D8:52:ASP:OD2	2.15	0.46
33:E1:139:LEU:HD13	33:E1:152:ALA:H	1.80	0.46
35:SM:84:LYS:C	35:SM:86:ASN:H	2.23	0.46
36:1:290:G:H4'	51:M5:69:GLY:O	2.15	0.46
36:1:316:U:O2'	72:O6:30:LYS:HG3	2.16	0.46
36:1:703:G:C5	36:1:704:U:C5	3.04	0.46
36:1:906:A:OP1	86:1:3994:OHX:N1	2.49	0.46
36:1:1230:G:H1	36:1:1279:C:N4	2.09	0.46
36:1:1620:U:H2'	36:1:1621:A:C8	2.51	0.46
36:1:1758:G:N2	36:1:1767:C:N3	2.48	0.46
36:1:2621:G:C6	36:1:2622:C:C4	3.03	0.46
36:1:2812:C:H2'	36:1:2813:A:H8	1.81	0.46
36:1:3011:A:C5	40:L3:13:HIS:CD2	3.04	0.46
36:1:3191:G:H5''	52:M6:176:LYS:HE2	1.97	0.46
86:1:3965:OHX:N3	86:1:4153:OHX:N1	2.63	0.46
39:L2:61:VAL:HG21	39:L2:76:PHE:CD2	2.50	0.46
41:L4:23:PRO:HG2	41:L4:26:PHE:HE2	1.81	0.46
50:M4:5:SER:O	50:M4:6:ILE:HB	2.15	0.46
52:M6:79:ILE:HG21	52:M6:138:LEU:HD11	1.98	0.46
56:N0:100:VAL:HG13	56:N0:101:ALA:N	2.31	0.46
58:N2:33:TYR:OH	58:N2:80:THR:HG21	2.15	0.46
62:N6:39:LEU:HD13	62:N6:43:TYR:HE2	1.81	0.46
66:O0:52:ARG:HE	66:O0:52:ARG:HB2	1.51	0.46
75:O9:5:LYS:HD3	75:O9:13:MET:HE1	1.97	0.46
1:c6:952:A:OP1	15:c3:94:LYS:HE2	2.16	0.46
2:s0:12:GLU:HA	2:s0:15:GLN:HG3	1.98	0.46
2:s0:58:VAL:O	2:s0:61:ALA:HB3	2.16	0.46
2:s0:65:ALA:C	2:s0:67:ILE:H	2.24	0.46
4:s2:133:LYS:C	4:s2:135:SER:H	2.24	0.46
6:s4:46:VAL:O	6:s4:50:ASN:HB2	2.16	0.46
16:c4:16:VAL:O	16:c4:30:VAL:HA	2.16	0.46
16:c4:108:SER:OG	16:c4:109:GLY:N	2.49	0.46
17:c5:74:ALA:HA	17:c5:75:PRO:HD3	1.83	0.46
19:c7:104:ASN:N	19:c7:104:ASN:OD1	2.47	0.46
24:d2:81:VAL:N	24:d2:123:GLY:O	2.34	0.46
27:d5:61:SER:H	27:d5:64:VAL:CG2	2.29	0.46
34:sR:295:SER:OG	34:sR:297:ASP:OD1	2.30	0.46
36:5:188:U:H1'	36:5:208:C:H1'	1.98	0.46
36:5:614:C:H2'	36:5:615:U:O4'	2.15	0.46
36:5:1239:C:H3'	36:5:1240:A:C8	2.51	0.46
36:5:1614:C:H2'	36:5:1615:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1940:G:N2	36:5:3362:A:H8	2.14	0.46
36:5:2378:C:O2	36:5:2378:C:H2'	2.16	0.46
36:5:2674:A:H5''	48:m1:105:GLY:HA3	1.98	0.46
36:5:2896:A:P	76:q0:102:ARG:HH21	2.38	0.46
36:5:2947:G:N2	36:5:2948:C:C2	2.84	0.46
36:5:2948:C:O5'	36:5:2948:C:H6	1.98	0.46
36:5:3194:C:O2'	36:5:3195:U:H5'	2.16	0.46
36:5:3348:G:C2	36:5:3358:U:C2	3.04	0.46
37:7:3:U:O2'	37:7:4:U:H5'	2.16	0.46
40:l3:221:THR:CG2	40:l3:273:HIS:H	2.24	0.46
40:l3:261:MET:HB3	40:l3:261:MET:HE3	1.60	0.46
43:l6:18:LEU:HD23	43:l6:18:LEU:HA	1.66	0.46
43:l6:50:LYS:HE2	43:l6:72:ASN:HB2	1.98	0.46
44:l7:151:ARG:HD2	44:l7:244:ASN:OD1	2.16	0.46
45:l8:159:PRO:HB2	45:l8:161:GLU:OE2	2.15	0.46
46:l9:30:PRO:HG2	46:l9:83:THR:HA	1.97	0.46
51:m5:98:LEU:O	51:m5:101:THR:N	2.49	0.46
52:m6:110:PRO:HA	52:m6:113:ASP:CG	2.41	0.46
59:n3:80:ARG:NH1	59:n3:116:GLY:HA3	2.31	0.46
62:n6:88:GLU:N	62:n6:88:GLU:OE1	2.49	0.46
69:o3:73:ARG:HE	69:o3:82:ARG:CZ	2.28	0.46
73:o7:28:HIS:CG	73:o7:31:LYS:HB2	2.49	0.46
78:q2:46:LYS:O	86:q2:502:OHX:N3	2.49	0.46
1:2:20:G:H5'	1:2:571:G:C8	2.51	0.45
1:2:119:A:H1'	1:2:397:A:C4	2.50	0.45
1:2:439:U:O5'	1:2:465:G:N2	2.49	0.45
1:2:460:A:H5'	1:2:461:G:OP2	2.17	0.45
1:2:739:G:O6	86:2:2096:OHX:N4	2.48	0.45
1:2:862:A:OP1	15:C3:20:ARG:NE	2.24	0.45
1:2:928:U:H4'	16:C4:124:ASP:OD1	2.16	0.45
1:2:941:A:C5	1:2:942:G:H1'	2.51	0.45
1:2:1565:C:H2'	1:2:1566:U:O4'	2.16	0.45
1:2:1789:G:H5''	1:2:1789:G:C8	2.51	0.45
86:2:2043:OHX:N4	86:2:2098:OHX:N3	2.65	0.45
2:S0:170:ILE:H	2:S0:170:ILE:HD12	1.81	0.45
2:S0:179:ARG:O	2:S0:183:ARG:HG3	2.16	0.45
3:S1:127:VAL:HG13	3:S1:176:VAL:HG11	1.99	0.45
3:S1:222:LYS:HD3	3:S1:223:PHE:N	2.28	0.45
4:S2:49:LYS:HB3	4:S2:243:TYR:CE2	2.51	0.45
13:C1:54:ILE:HG22	13:C1:55:ASP:N	2.31	0.45
14:C2:67:THR:C	14:C2:69:ALA:H	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:22:LEU:O	17:C5:26:LEU:HD13	2.15	0.45
21:C9:18:TYR:O	21:C9:22:LEU:HD22	2.16	0.45
29:D7:34:ASP:OD1	29:D7:34:ASP:N	2.49	0.45
34:SR:147:HIS:CD2	34:SR:151:VAL:HG22	2.51	0.45
36:1:537:A:H2'	36:1:538:G:O4'	2.16	0.45
36:1:650:C:O2'	36:1:651:G:H5'	2.16	0.45
36:1:709:A:C1'	64:N8:57:GLY:HA2	2.46	0.45
36:1:1278:A:HO2'	36:1:1279:C:C5'	2.29	0.45
36:1:1493:G:C6	75:O9:2:ALA:HB2	2.50	0.45
36:1:1583:A:N7	36:1:1584:U:C2	2.84	0.45
36:1:2134:G:C2	36:1:2135:U:C6	3.03	0.45
36:1:2714:G:O6	36:1:2741:C:N3	2.49	0.45
36:1:2771:U:O2'	36:1:2772:C:O4'	2.27	0.45
36:1:2916:U:H2'	36:1:2917:G:H5'	1.97	0.45
36:1:3160:U:H2'	36:1:3161:C:C6	2.51	0.45
36:1:3166:C:N4	36:1:3284:G:H1	1.95	0.45
38:4:17:A:C2	38:4:18:U:H1'	2.51	0.45
38:4:35:C:H5''	73:O7:70:VAL:HG11	1.98	0.45
45:L8:121:SER:O	45:L8:123:GLN:N	2.46	0.45
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.16	0.45
47:M0:201:SER:OG	47:M0:203:LYS:O	2.27	0.45
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.41	0.45
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.50	0.45
54:M8:23:ASN:OD1	54:M8:23:ASN:C	2.58	0.45
60:N4:55:PHE:C	60:N4:55:PHE:CD1	2.94	0.45
61:N5:100:LYS:HE3	61:N5:106:ASP:HA	1.97	0.45
68:O2:96:ILE:HD11	68:O2:109:LEU:HD23	1.98	0.45
1:6:397:A:O3'	10:s8:50:GLY:HA2	2.16	0.45
1:6:565:C:N3	86:6:2159:OHX:N4	2.63	0.45
1:6:868:G:OP1	15:c3:121:ARG:NH1	2.49	0.45
1:6:1072:C:H4'	15:c3:11:ILE:HD11	1.97	0.45
1:6:1347:U:O2	1:6:1516:A:H2'	2.16	0.45
1:6:1797:A:C6	28:d6:87:ARG:HD2	2.51	0.45
8:s6:204:ALA:HA	8:s6:207:GLU:HB3	1.97	0.45
12:c0:49:LEU:HD13	12:c0:52:LYS:HE3	1.97	0.45
13:c1:23:PRO:C	13:c1:25:VAL:N	2.74	0.45
14:c2:30:VAL:O	14:c2:34:THR:HG23	2.16	0.45
16:c4:125:SER:OG	16:c4:126:THR:N	2.44	0.45
20:c8:52:VAL:HG13	20:c8:61:LEU:HD21	1.98	0.45
26:d4:40:LEU:O	26:d4:44:LEU:HD12	2.17	0.45
27:d5:76:ALA:O	27:d5:79:ALA:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:300:G:H2'	36:5:301:G:H8	1.81	0.45
36:5:1104:G:H2'	36:5:1105:A:C8	2.52	0.45
36:5:1439:U:H2'	36:5:1440:G:O4'	2.16	0.45
36:5:2180:G:H2'	36:5:2181:C:C6	2.51	0.45
36:5:2355:G:H4'	53:m7:139:TYR:CZ	2.51	0.45
37:7:57:G:C8	37:7:58:C:C5	3.04	0.45
44:l7:113:SER:HA	44:l7:205:PHE:O	2.16	0.45
45:l8:178:ALA:HB2	45:l8:218:ILE:HD13	1.98	0.45
47:m0:30:LYS:HG3	47:m0:63:GLU:HB3	1.97	0.45
48:m1:173:ASP:HB3	48:m1:174:LYS:H	1.61	0.45
50:m4:68:LEU:HD23	50:m4:68:LEU:N	2.31	0.45
53:m7:30:ARG:NH1	53:m7:31:GLU:OE2	2.48	0.45
57:n1:7:TYR:CE2	57:n1:54:HIS:HD2	2.34	0.45
57:n1:12:ARG:HD3	57:n1:13:TYR:CE1	2.51	0.45
57:n1:39:ILE:HD12	57:n1:102:ARG:HB2	1.98	0.45
57:n1:82:ASN:OD1	57:n1:82:ASN:N	2.47	0.45
60:n4:58:HIS:C	60:n4:60:LYS:H	2.23	0.45
63:n7:81:LEU:HD22	63:n7:81:LEU:HA	1.78	0.45
68:o2:6:HIS:HA	68:o2:7:PRO:HD2	1.77	0.45
68:o2:115:LEU:HD23	68:o2:115:LEU:HA	1.66	0.45
69:o3:29:LEU:HD22	69:o3:75:HIS:CD2	2.51	0.45
71:o5:4:VAL:HG21	71:o5:9:LEU:HD11	1.98	0.45
1:2:327:U:C2	1:2:328:A:C8	3.04	0.45
1:2:396:G:O2'	1:2:398:G:N7	2.47	0.45
1:2:416:A:H5'	1:2:417:A:N7	2.31	0.45
1:2:423:G:N7	86:2:2107:OHX:N3	2.65	0.45
1:2:601:A:H2'	1:2:602:U:O4'	2.16	0.45
1:2:906:A:H2'	1:2:907:A:O4'	2.17	0.45
1:2:1062:A:OP2	86:2:2165:OHX:N4	2.49	0.45
1:2:1252:C:H41	33:E1:97:LYS:HE3	1.80	0.45
4:S2:162:CYS:O	4:S2:164:SER:N	2.50	0.45
6:S4:62:LYS:O	6:S4:66:MET:HG2	2.16	0.45
11:S9:78:ARG:HH22	11:S9:82:ARG:NH2	2.13	0.45
11:S9:101:VAL:HG23	11:S9:102:GLU:OE2	2.17	0.45
15:C3:54:LEU:HA	15:C3:58:HIS:HB2	1.97	0.45
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.99	0.45
36:1:921:A:N6	36:1:1846:C:OP2	2.48	0.45
36:1:1063:G:O2'	36:1:1097:G:N2	2.48	0.45
36:1:1202:A:C2	36:1:2857:C:H5'	2.52	0.45
36:1:1625:A:H4'	36:1:1643:A:C6	2.51	0.45
36:1:1836:C:N4	75:O9:3:ALA:HB2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2209:U:OP2	36:1:2209:U:H6	1.98	0.45
36:1:2381:G:C2	36:1:2382:G:C8	3.04	0.45
36:1:2769:A:C2'	36:1:2770:G:H5'	2.46	0.45
38:4:71:A:O2'	62:N6:52:ARG:NH2	2.48	0.45
38:4:75:G:C8	75:O9:30:ARG:HG2	2.51	0.45
38:4:97:A:C2	38:4:98:U:C2	3.05	0.45
38:4:120:C:C4	38:4:121:U:C4	3.04	0.45
39:L2:143:GLU:O	39:L2:145:LYS:HG2	2.16	0.45
39:L2:218:HIS:O	39:L2:218:HIS:ND1	2.45	0.45
40:L3:345:ASN:ND2	40:L3:347:SER:HB2	2.32	0.45
40:L3:380:MET:HE3	40:L3:380:MET:HB2	1.73	0.45
41:L4:264:SER:C	41:L4:266:THR:N	2.62	0.45
47:M0:34:TYR:N	47:M0:34:TYR:HD1	2.13	0.45
61:N5:135:ILE:O	61:N5:139:ILE:HG22	2.15	0.45
67:O1:20:LEU:HD23	67:O1:20:LEU:HA	1.75	0.45
72:O6:26:ILE:HD12	72:O6:27:SER:H	1.82	0.45
73:O7:63:ARG:O	73:O7:64:MET:HB2	2.16	0.45
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.49	0.45
1:6:1:U:O2	1:6:369:A:H2'	2.16	0.45
1:6:140:A:H1'	8:s6:179:VAL:HG21	1.97	0.45
1:6:1238:A:H2'	1:6:1239:U:C5'	2.46	0.45
1:6:1491:U:O2'	1:6:1492:A:H5''	2.15	0.45
1:6:1554:U:H3'	1:6:1555:A:H8	1.81	0.45
1:6:1731:A:H5''	1:6:1732:A:OP2	2.16	0.45
5:s3:127:MET:HE3	5:s3:131:ALA:HB3	1.97	0.45
7:s5:119:ASP:O	7:s5:123:VAL:HG23	2.16	0.45
8:s6:214:LYS:O	8:s6:218:GLU:HG3	2.16	0.45
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.98	0.45
18:c6:47:LYS:HD2	18:c6:47:LYS:HA	1.63	0.45
34:sR:6:VAL:HG12	34:sR:316:MET:O	2.15	0.45
36:5:100:A:O2'	36:5:101:G:H5'	2.16	0.45
36:5:265:A:H5''	36:5:266:A:OP2	2.16	0.45
36:5:343:U:H4'	36:5:344:A:OP2	2.16	0.45
36:5:600:G:H5'	36:5:601:U:OP2	2.17	0.45
36:5:916:G:H4'	36:5:917:A:O5'	2.15	0.45
36:5:1077:U:H2'	36:5:1078:U:C6	2.52	0.45
36:5:1192:C:N4	36:5:1302:A:OP2	2.45	0.45
36:5:1475:A:H4'	67:o1:57:GLN:HG2	1.98	0.45
36:5:1919:G:C6	36:5:1920:U:C4	3.04	0.45
36:5:2222:A:N6	36:5:2783:U:H1'	2.32	0.45
36:5:2720:G:O6	36:5:2737:C:N4	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2945:G:O2'	36:5:2948:C:OP2	2.22	0.45
36:5:3059:G:OP1	67:o1:17:HIS:NE2	2.42	0.45
36:5:3216:G:O6	36:5:3259:U:H2'	2.16	0.45
38:8:121:U:O2'	38:8:122:U:H5'	2.15	0.45
46:19:92:TYR:CD1	46:19:142:ASP:HB3	2.52	0.45
49:m3:24:VAL:HG22	51:m5:199:LEU:HB2	1.98	0.45
54:m8:139:ILE:C	54:m8:140:LEU:HD23	2.41	0.45
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.50	0.45
58:n2:42:LYS:HA	58:n2:46:ALA:O	2.15	0.45
72:o6:98:ARG:HB3	72:o6:99:ARG:HG3	1.99	0.45
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.15	0.45
81:p0:72:ASP:C	81:p0:74:GLU:H	2.23	0.45
1:2:141:U:C5	8:S6:179:VAL:HG23	2.50	0.45
1:2:344:A:H2'	1:2:345:U:H6	1.81	0.45
1:2:422:G:OP1	86:2:2041:OHX:N6	2.50	0.45
1:2:488:G:OP1	1:2:488:G:H4'	2.16	0.45
1:2:1764:C:C5	1:2:1767:G:C4	3.04	0.45
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	1.99	0.45
4:S2:78:ASP:O	4:S2:79:GLU:HB3	2.15	0.45
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.97	0.45
5:S3:55:THR:C	5:S3:57:ASP:H	2.24	0.45
7:S5:102:ARG:HG3	7:S5:103:ASN:H	1.81	0.45
11:S9:6:ARG:HD3	11:S9:6:ARG:HA	1.56	0.45
14:C2:52:LEU:HD12	14:C2:78:LEU:O	2.16	0.45
15:C3:107:LYS:HD2	15:C3:107:LYS:HA	1.83	0.45
17:C5:82:ASN:HD22	17:C5:82:ASN:H	1.64	0.45
22:D0:93:LEU:HD23	22:D0:93:LEU:HA	1.70	0.45
34:SR:103:PHE:CZ	34:SR:122:ILE:HD12	2.51	0.45
34:SR:227:ALA:O	34:SR:229:LYS:NZ	2.33	0.45
36:1:564:G:H2'	36:1:565:U:C6	2.51	0.45
36:1:573:C:H2'	36:1:574:U:C6	2.51	0.45
36:1:1326:A:H2'	36:1:1327:C:O4'	2.17	0.45
36:1:1557:A:H5''	45:L8:54:GLU:OE1	2.16	0.45
36:1:3003:G:H4'	40:L3:180:GLU:OE1	2.15	0.45
36:1:3163:A:N6	36:1:3288:G:H1	2.14	0.45
36:1:3282:U:H2'	36:1:3283:U:O4'	2.16	0.45
86:1:3965:OHX:N6	86:1:4153:OHX:N4	2.64	0.45
39:L2:48:ILE:HD13	39:L2:57:PRO:HB2	1.98	0.45
39:L2:83:HIS:O	39:L2:84:THR:C	2.59	0.45
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.17	0.45
42:L5:111:GLN:HA	42:L5:116:ASP:CG	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:66:LYS:HG3	44:L7:76:TYR:CD2	2.50	0.45
52:M6:58:LEU:HD11	52:M6:74:ARG:HH21	1.82	0.45
52:M6:121:PRO:HA	52:M6:124:LEU:HD22	1.99	0.45
66:O0:45:ALA:O	66:O0:48:THR:HG22	2.17	0.45
70:O4:47:CYS:HB3	70:O4:84:CYS:SG	2.56	0.45
78:Q2:40:LYS:HE3	78:Q2:44:ASP:OD2	2.17	0.45
1:6:138:A:C2'	1:6:139:C:H5'	2.45	0.45
1:6:291:G:H2'	1:6:292:U:C6	2.52	0.45
1:6:294:C:H2'	1:6:295:A:H8	1.81	0.45
1:6:639:U:H5	1:6:695:U:C5	2.35	0.45
1:6:923:A:OP1	79:q3:85:ARG:NH2	2.49	0.45
1:6:1756:A:H8	1:6:1756:A:OP2	2.00	0.45
3:s1:125:VAL:HG11	3:s1:173:THR:HG23	1.98	0.45
5:s3:43:PRO:O	5:s3:44:THR:HG22	2.15	0.45
5:s3:177:MET:HG3	5:s3:178:ARG:H	1.81	0.45
6:s4:108:ARG:H	6:s4:108:ARG:HG2	1.62	0.45
8:s6:10:ASN:ND2	8:s6:128:THR:HG22	2.30	0.45
9:s7:41:LEU:HB3	9:s7:70:PHE:CE2	2.51	0.45
14:c2:44:GLY:O	14:c2:46:ARG:N	2.50	0.45
23:d1:41:GLU:OE2	23:d1:41:GLU:N	2.49	0.45
23:d1:60:ARG:O	23:d1:63:GLY:N	2.42	0.45
31:d9:14:TYR:CD2	31:d9:14:TYR:C	2.95	0.45
34:sR:84:SER:OG	34:sR:85:TRP:N	2.49	0.45
34:sR:115:ILE:HG13	34:sR:121:MET:O	2.16	0.45
36:5:230:U:H2'	36:5:231:G:O4'	2.17	0.45
36:5:310:U:H2'	36:5:311:C:O4'	2.17	0.45
36:5:953:G:C8	36:5:1117:G:C8	3.05	0.45
36:5:1047:A:C6	36:5:1048:A:C6	3.05	0.45
36:5:1131:G:H4'	36:5:1132:C:OP2	2.17	0.45
36:5:1632:A:C6	36:5:1644:C:C4	3.05	0.45
36:5:1648:A:H2'	36:5:1649:U:O4'	2.16	0.45
36:5:1936:A:H2'	36:5:1937:U:O4'	2.17	0.45
36:5:2152:A:H2'	36:5:2153:U:C6	2.51	0.45
36:5:2181:C:OP1	39:l2:192:LYS:NZ	2.49	0.45
36:5:2361:A:C6	36:5:2362:C:C4	3.03	0.45
36:5:3199:G:O6	86:5:4139:OHX:N5	2.50	0.45
39:l2:15:ILE:HD12	39:l2:15:ILE:HA	1.72	0.45
40:l3:112:ASP:HA	40:l3:115:LYS:HB2	1.97	0.45
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.51	0.45
42:l5:197:SER:O	42:l5:198:TYR:C	2.59	0.45
42:l5:234:ASP:HB3	86:l5:304:OHX:N5	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:69:PHE:HB2	43:l6:138:GLN:NE2	2.31	0.45
45:l8:41:GLN:HG3	45:l8:44:ARG:NH1	2.28	0.45
64:n8:75:LEU:O	64:n8:77:LYS:N	2.49	0.45
70:o4:42:PRO:HG3	70:o4:62:TYR:OH	2.15	0.45
71:o5:21:LEU:O	71:o5:24:LEU:N	2.48	0.45
74:o8:58:ASP:HB3	74:o8:61:LYS:CG	2.38	0.45
75:o9:35:ILE:H	75:o9:35:ILE:HD12	1.81	0.45
1:2:274:G:H3'	1:2:275:C:C6	2.51	0.45
1:2:795:U:C5	1:2:796:A:C5	3.04	0.45
1:2:1017:U:H2'	1:2:1018:U:C6	2.52	0.45
1:2:1163:A:N6	1:2:1164:G:C6	2.84	0.45
1:2:1317:C:O2	1:2:1400:A:H2	1.99	0.45
1:2:1383:G:OP1	22:D0:87:HIS:ND1	2.47	0.45
1:2:1608:U:H2'	1:2:1609:U:H6	1.82	0.45
1:2:1793:G:H1'	1:2:1794:A:H2'	1.98	0.45
2:S0:154:GLU:OE1	2:S0:154:GLU:N	2.34	0.45
12:C0:56:LYS:HG2	12:C0:67:THR:HB	1.98	0.45
13:C1:13:PHE:CE2	13:C1:15:LYS:HB3	2.51	0.45
14:C2:55:GLY:HA2	14:C2:85:LYS:HD3	1.97	0.45
18:C6:23:LYS:O	18:C6:64:ASP:N	2.42	0.45
36:1:259:C:H2'	36:1:260:C:H6	1.82	0.45
36:1:973:A:OP2	54:M8:12:ARG:NH1	2.49	0.45
36:1:1118:C:O2	36:1:1154:A:H2	1.99	0.45
36:1:1313:G:N3	36:1:1318:A:H2	2.14	0.45
36:1:1341:U:H2'	36:1:1342:C:H6	1.81	0.45
36:1:1547:G:OP2	51:M5:105:ARG:NH1	2.48	0.45
36:1:1573:G:N2	36:1:1574:C:O2'	2.49	0.45
36:1:1722:U:H2'	36:1:1723:A:O4'	2.17	0.45
36:1:2205:U:H5'	36:1:2206:G:OP2	2.17	0.45
36:1:3204:C:OP1	50:M4:98:SER:OG	2.31	0.45
86:1:4023:OHX:N2	86:1:4143:OHX:N1	2.65	0.45
38:4:84:C:H5'	38:4:85:G:C5	2.52	0.45
44:L7:231:ASN:OD1	44:L7:231:ASN:C	2.59	0.45
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.51	0.45
47:M0:196:PHE:CG	47:M0:197:VAL:N	2.84	0.45
48:M1:78:GLU:O	48:M1:82:ARG:HB3	2.16	0.45
48:M1:115:LYS:NZ	48:M1:115:LYS:HB2	2.31	0.45
50:M4:120:VAL:O	50:M4:124:ARG:HG3	2.17	0.45
63:N7:27:LYS:HD2	63:N7:28:PRO:HD2	1.98	0.45
64:N8:2:PRO:N	64:N8:5:PHE:HD2	2.15	0.45
69:O3:102:LEU:HD23	69:O3:102:LEU:HA	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.49	0.45
77:Q1:4:LYS:O	77:Q1:7:LYS:HB3	2.15	0.45
1:6:479:C:H5'	11:s9:124:HIS:HD2	1.81	0.45
1:6:1388:A:C5	1:6:1411:A:C6	3.05	0.45
1:6:1523:G:N7	21:c9:68:ARG:NH1	2.63	0.45
3:s1:69:CYS:SG	16:c4:114:ARG:NH1	2.89	0.45
4:s2:123:GLY:HA2	4:s2:126:ARG:HH12	1.80	0.45
5:s3:42:THR:HG23	5:s3:45:LYS:O	2.15	0.45
5:s3:57:ASP:O	5:s3:65:ARG:HG2	2.16	0.45
7:s5:59:VAL:C	7:s5:61:TYR:H	2.23	0.45
8:s6:200:ALA:C	8:s6:202:ARG:H	2.24	0.45
15:c3:31:GLU:CD	15:c3:31:GLU:H	2.15	0.45
21:c9:37:VAL:HG11	21:c9:100:ILE:HD11	1.98	0.45
23:d1:72:LEU:HD23	23:d1:72:LEU:HA	1.76	0.45
24:d2:77:PRO:HD3	25:d3:7:ARG:HB2	1.98	0.45
80:e0:62:VAL:HG23	80:e0:63:GLN:H	1.80	0.45
36:5:213:A:OP1	62:n6:2:ALA:N	2.49	0.45
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.48	0.45
36:5:1794:G:O2'	36:5:1795:U:H5'	2.15	0.45
36:5:2658:G:C6	36:5:2659:G:N7	2.85	0.45
36:5:3027:A:H8	36:5:3027:A:OP1	1.99	0.45
36:5:3096:C:H2'	36:5:3097:C:H6	1.82	0.45
36:5:3112:G:N7	86:5:3910:OHX:N6	2.63	0.45
36:5:3165:A:H2'	36:5:3166:C:C6	2.51	0.45
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.97	0.45
38:8:141:C:OP1	86:8:229:OHX:N6	2.50	0.45
41:l4:84:ARG:O	41:l4:87:GLN:HB2	2.16	0.45
41:l4:118:LYS:O	41:l4:121:ALA:HB3	2.17	0.45
43:l6:175:LYS:O	43:l6:176:PHE:HB2	2.16	0.45
44:l7:173:LEU:HD11	44:l7:201:PHE:HB2	1.98	0.45
45:l8:63:LYS:HG3	45:l8:67:ILE:HD11	1.97	0.45
46:l9:38:LEU:HD23	46:l9:38:LEU:HA	1.48	0.45
46:l9:110:LYS:HB3	46:l9:128:VAL:HB	1.98	0.45
48:m1:89:TYR:O	48:m1:169:ALA:HB1	2.15	0.45
53:m7:3:ARG:HH21	53:m7:3:ARG:CG	2.30	0.45
58:n2:19:VAL:O	58:n2:22:PRO:HD2	2.16	0.45
59:n3:24:ASN:HB2	59:n3:98:ASN:O	2.15	0.45
64:n8:110:GLY:O	64:n8:129:PHE:HB2	2.17	0.45
66:o0:34:LEU:HD13	66:o0:34:LEU:HA	1.77	0.45
67:o1:31:ARG:O	67:o1:35:GLU:HB2	2.15	0.45
72:o6:56:ARG:HH22	72:o6:76:ARG:NH1	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:o8:68:SER:O	74:o8:69:LEU:HD23	2.17	0.45
1:2:197:A:N1	10:S8:138:ASN:ND2	2.64	0.45
1:2:580:A:O2'	1:2:582:U:OP1	2.35	0.45
1:2:751:G:H2'	1:2:752:A:H8	1.81	0.45
1:2:1098:U:H4'	1:2:1099:U:OP2	2.16	0.45
1:2:1211:A:N6	1:2:1452:U:H3	2.14	0.45
1:2:1340:U:O4	18:C6:9:THR:HA	2.16	0.45
1:2:1746:A:H2'	1:2:1747:G:O4'	2.16	0.45
1:2:1796:C:H4'	1:2:1797:A:OP2	2.16	0.45
2:S0:88:LYS:HE2	2:S0:88:LYS:HA	1.98	0.45
8:S6:76:LEU:HD13	8:S6:92:ARG:HD2	1.98	0.45
9:S7:114:ARG:C	9:S7:116:ARG:N	2.75	0.45
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.46	0.45
16:C4:117:ASP:OD1	16:C4:118:VAL:N	2.50	0.45
17:C5:87:PRO:O	17:C5:90:ILE:HB	2.16	0.45
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.52	0.45
28:D6:84:VAL:O	28:D6:86:VAL:N	2.38	0.45
34:SR:38:ARG:HB3	34:SR:67:ILE:HG12	1.97	0.45
36:1:12:A:H1'	61:N5:37:THR:HG21	1.99	0.45
36:1:184:U:H3	36:1:232:G:H1	1.63	0.45
36:1:288:C:H2'	36:1:289:A:C8	2.52	0.45
36:1:637:C:H6	36:1:637:C:H2'	1.40	0.45
36:1:1170:A:H2'	36:1:1171:G:O4'	2.16	0.45
36:1:1498:A:H2'	36:1:1499:C:C6	2.51	0.45
36:1:2261:G:H21	36:1:2262:A:N6	2.15	0.45
36:1:2571:U:OP1	36:1:2571:U:H2'	2.16	0.45
36:1:2631:U:OP2	57:N1:4:SER:OG	2.35	0.45
42:L5:22:ARG:NH2	42:L5:28:THR:OG1	2.49	0.45
42:L5:111:GLN:HG3	42:L5:116:ASP:OD2	2.17	0.45
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.49	0.45
50:M4:108:ARG:NH2	52:M6:196:ALA:O	2.50	0.45
55:M9:109:TYR:OH	55:M9:139:VAL:HG22	2.15	0.45
63:N7:46:ILE:HD11	63:N7:49:TYR:CD2	2.52	0.45
63:N7:97:SER:HB2	63:N7:99:GLU:HG3	1.98	0.45
1:6:538:A:C8	1:6:543:C:N4	2.73	0.45
1:6:566:C:O2	80:e0:13:LYS:HE3	2.16	0.45
1:6:686:C:H2'	1:6:687:G:C8	2.51	0.45
1:6:1039:A:O2'	1:6:1040:G:OP2	2.31	0.45
1:6:1143:A:H2'	1:6:1144:U:H6	1.81	0.45
1:6:1207:C:N3	1:6:1456:C:H5	2.15	0.45
1:6:1258:U:C4	1:6:1259:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1531:G:C6	1:6:1532:U:C4	3.05	0.45
1:6:1774:G:H2'	1:6:1775:U:O4'	2.16	0.45
2:s0:112:THR:CG2	2:s0:115:PHE:HB2	2.46	0.45
3:s1:82:ARG:HB2	3:s1:82:ARG:HH11	1.82	0.45
4:s2:84:LYS:HB2	4:s2:84:LYS:HE3	1.50	0.45
5:s3:46:THR:O	5:s3:84:ILE:HG12	2.17	0.45
10:s8:12:SER:O	10:s8:14:THR:N	2.50	0.45
12:c0:3:MET:HE2	12:c0:41:TYR:CD1	2.51	0.45
12:c0:70:GLU:O	12:c0:73:VAL:HG22	2.17	0.45
23:d1:13:VAL:HA	23:d1:14:PRO:HD3	1.72	0.45
28:d6:10:ARG:NH1	28:d6:36:ILE:HA	2.32	0.45
33:e1:91:ILE:HD11	33:e1:92:LYS:HZ3	1.80	0.45
34:sR:201:THR:HB	34:sR:241:PHE:O	2.16	0.45
34:sR:260:ILE:HB	34:sR:274:LEU:HB2	1.99	0.45
36:5:63:A:H8	36:5:63:A:O5'	1.98	0.45
36:5:277:G:H2'	36:5:278:U:C6	2.52	0.45
36:5:290:G:OP1	51:m5:98:LEU:HD13	2.15	0.45
36:5:508:U:H2'	36:5:509:U:C6	2.50	0.45
36:5:726:G:H5'	36:5:727:G:P	2.56	0.45
36:5:912:G:C2	36:5:914:A:C2	3.05	0.45
36:5:1650:G:H5''	39:l2:70:ARG:HB3	1.97	0.45
36:5:1783:U:H2'	36:5:1784:G:H8	1.79	0.45
36:5:1841:A:N3	75:o9:45:ARG:NH2	2.63	0.45
36:5:2359:C:O2'	36:5:2360:C:H5'	2.17	0.45
36:5:2374:C:N4	36:5:2941:A:N3	2.64	0.45
36:5:2400:G:H5''	36:5:2401:A:OP2	2.17	0.45
36:5:3167:A:H2'	36:5:3168:A:O4'	2.17	0.45
36:5:3287:U:H2'	36:5:3288:G:C5'	2.46	0.45
37:7:8:G:C6	37:7:9:C:C4	3.04	0.45
38:8:82:U:H2'	38:8:83:C:H5'	1.97	0.45
86:8:216:OHX:N2	86:8:223:OHX:N4	2.64	0.45
39:l2:64:ARG:HH22	45:l8:38:GLN:HA	1.81	0.45
41:l4:341:SER:O	41:l4:342:LYS:CB	2.64	0.45
44:l7:152:GLY:C	44:l7:153:PHE:HD2	2.25	0.45
44:l7:176:TYR:HB3	44:l7:194:HIS:CD2	2.51	0.45
49:m3:28:GLN:HB3	51:m5:201:ARG:HD3	1.98	0.45
50:m4:113:THR:HG22	50:m4:116:GLU:HB2	1.99	0.45
55:m9:106:LEU:HB3	55:m9:120:TYR:HE1	1.82	0.45
59:n3:127:PRO:HA	59:n3:130:ALA:HB3	1.99	0.45
65:n9:43:HIS:CE1	65:n9:47:LEU:HD11	2.52	0.45
68:o2:103:LYS:O	68:o2:106:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:q3:26:VAL:HG13	79:q3:30:GLU:HG3	1.97	0.45
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.49	0.45
1:2:411:C:O2	1:2:423:G:N2	2.49	0.45
1:2:546:U:H2'	1:2:547:U:H6	1.81	0.45
1:2:1178:G:H2'	1:2:1179:G:O4'	2.16	0.45
86:2:2036:OHX:N2	10:S8:17:LYS:O	2.50	0.45
2:S0:165:ARG:HD3	2:S0:165:ARG:HA	1.80	0.45
3:S1:76:SER:OG	3:S1:78:ASP:OD1	2.29	0.45
3:S1:209:ASN:O	3:S1:210:ILE:HB	2.17	0.45
11:S9:115:LYS:HA	11:S9:115:LYS:HD2	1.66	0.45
12:C0:38:LYS:NZ	31:D9:4:GLU:HG3	2.32	0.45
16:C4:20:TYR:OH	16:C4:86:THR:HA	2.16	0.45
16:C4:114:ARG:HB2	28:D6:59:TYR:CE2	2.51	0.45
19:C7:63:LYS:HD3	19:C7:63:LYS:HA	1.63	0.45
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.75	0.45
32:E0:30:PRO:O	32:E0:35:TYR:HB2	2.17	0.45
33:E1:103:LEU:HD13	33:E1:106:TYR:HE1	1.81	0.45
33:E1:111:GLU:HA	33:E1:112:GLY:HA2	1.78	0.45
34:SR:171:SER:OG	34:SR:179:LYS:HB2	2.15	0.45
36:1:63:A:H2'	36:1:64:G:O4'	2.16	0.45
36:1:114:A:O2'	51:M5:50:ARG:HB3	2.17	0.45
36:1:283:G:O6	36:1:304:G:H1'	2.17	0.45
36:1:718:G:N2	36:1:721:G:H1'	2.31	0.45
36:1:1461:A:O2'	36:1:1462:A:H5'	2.16	0.45
36:1:1530:U:OP1	86:1:3935:OHX:N2	2.49	0.45
36:1:1602:A:H5''	55:M9:38:ARG:HG3	1.98	0.45
36:1:2633:U:H2'	36:1:2634:U:O4'	2.17	0.45
36:1:2775:U:H2'	36:1:2776:C:C6	2.51	0.45
36:1:2916:U:C1'	59:N3:44:SER:HB3	2.42	0.45
36:1:2961:G:C6	36:1:2962:U:C4	3.05	0.45
36:1:3178:A:H5''	36:1:3179:U:OP1	2.17	0.45
40:L3:345:ASN:HD21	40:L3:347:SER:HB2	1.82	0.45
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.17	0.45
43:L6:131:LYS:O	43:L6:134:ARG:N	2.45	0.45
45:L8:100:GLU:OE2	45:L8:108:ARG:NH1	2.49	0.45
46:L9:89:LYS:HG2	46:L9:145:VAL:HG22	1.97	0.45
47:M0:41:ALA:O	47:M0:139:ARG:NH2	2.46	0.45
49:M3:128:ARG:HD3	71:O5:114:ARG:CZ	2.47	0.45
53:M7:78:VAL:HG12	53:M7:80:LYS:H	1.82	0.45
56:N0:100:VAL:HG13	56:N0:101:ALA:H	1.80	0.45
57:N1:96:ILE:HA	57:N1:96:ILE:HD13	1.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:89:LEU:HD23	58:N2:92:TRP:CE3	2.52	0.45
71:O5:21:LEU:HD22	71:O5:25:LYS:HG3	1.99	0.45
73:O7:50:GLY:O	73:O7:53:ALA:HB3	2.17	0.45
76:Q0:96:CYS:C	76:Q0:98:LYS:N	2.75	0.45
1:6:74:U:H5''	1:6:75:U:OP2	2.16	0.45
1:6:100:A:C2	1:6:101:U:C2	3.04	0.45
1:6:701:U:H2'	1:6:702:G:H8	1.81	0.45
1:6:915:A:H5''	1:6:916:U:OP2	2.17	0.45
1:6:1769:U:OP2	86:6:2144:OHX:N2	2.50	0.45
4:s2:137:ILE:HD12	4:s2:215:PHE:CZ	2.52	0.45
4:s2:153:SER:OG	4:s2:171:PRO:HA	2.17	0.45
6:s4:92:LEU:HB2	6:s4:95:THR:CG2	2.47	0.45
6:s4:213:SER:OG	6:s4:214:LEU:HD12	2.16	0.45
7:s5:184:PHE:CD1	7:s5:185:ARG:HG3	2.52	0.45
10:s8:165:LEU:HB3	10:s8:183:ILE:HD13	1.99	0.45
15:c3:94:LYS:O	15:c3:97:SER:N	2.49	0.45
23:d1:38:LYS:HE3	23:d1:38:LYS:HB2	1.63	0.45
24:d2:6:VAL:HG12	24:d2:7:LEU:N	2.31	0.45
24:d2:52:TYR:HE2	24:d2:54:ASP:HA	1.82	0.45
29:d7:6:ASP:CG	29:d7:9:HIS:HD1	2.21	0.45
36:5:114:A:C2	36:5:267:G:C4	3.04	0.45
36:5:770:G:OP1	49:m3:171:ARG:HD3	2.17	0.45
36:5:944:C:H5'	64:n8:12:ARG:O	2.16	0.45
36:5:1336:U:O2'	36:5:1337:A:H5'	2.17	0.45
36:5:1348:U:H5'	36:5:1349:G:OP1	2.17	0.45
36:5:1549:U:H2'	36:5:1550:C:H6	1.82	0.45
36:5:1672:U:O2	36:5:1776:G:C2	2.69	0.45
36:5:1838:G:H8	36:5:1838:G:O5'	1.99	0.45
36:5:2350:C:H5''	53:m7:68:GLY:HA3	1.99	0.45
36:5:2756:C:O2	57:n1:8:ARG:NH2	2.49	0.45
36:5:3119:U:OP2	86:5:3910:OHX:N3	2.50	0.45
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.51	0.45
86:5:3994:OHX:N6	86:5:4085:OHX:N5	2.65	0.45
41:l4:269:SER:O	41:l4:270:SER:OG	2.35	0.45
44:l7:158:LYS:CG	44:l7:159:GLN:H	2.29	0.45
45:l8:26:LEU:HD11	63:n7:123:GLN:NE2	2.32	0.45
46:l9:175:PHE:CD2	46:l9:175:PHE:N	2.85	0.45
47:m0:81:GLY:C	47:m0:83:ASP:N	2.74	0.45
47:m0:175:ASN:C	47:m0:176:LEU:HG	2.40	0.45
47:m0:216:TYR:O	86:m0:302:OHX:N4	2.50	0.45
50:m4:18:GLY:O	50:m4:69:THR:HA	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:51:LEU:HD23	70:o4:51:LEU:HA	1.70	0.45
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.16	0.45
1:2:393:C:H4'	1:2:1673:G:O2'	2.16	0.45
1:2:651:G:C2	1:2:684:A:C6	3.05	0.45
1:2:1201:G:H22	1:2:1600:A:H5''	1.81	0.45
1:2:1235:C:H2'	33:E1:138:ARG:NH2	2.32	0.45
3:S1:130:SER:OG	3:S1:180:THR:N	2.50	0.45
4:S2:53:ILE:O	4:S2:56:ILE:N	2.50	0.45
7:S5:59:VAL:C	7:S5:61:TYR:N	2.74	0.45
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.81	0.45
13:C1:55:ASP:HB2	13:C1:82:ARG:CZ	2.47	0.45
13:C1:72:THR:HA	13:C1:124:THR:HA	1.98	0.45
15:C3:54:LEU:HB3	15:C3:60:VAL:HG21	1.98	0.45
24:D2:46:TYR:CD1	24:D2:69:LEU:HD13	2.52	0.45
24:D2:103:ILE:HG12	24:D2:103:ILE:O	2.16	0.45
26:D4:123:LYS:HZ2	26:D4:123:LYS:HG3	1.31	0.45
36:1:891:G:H2'	36:1:892:U:O4'	2.17	0.45
36:1:1341:U:H2'	36:1:1342:C:C6	2.52	0.45
36:1:1366:A:H2'	36:1:1366:A:N3	2.31	0.45
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.47	0.45
36:1:1838:G:H4'	36:1:1839:A:N3	2.32	0.45
36:1:2249:G:C8	36:1:2249:G:H3'	2.51	0.45
36:1:2544:U:H2'	36:1:2545:C:C6	2.52	0.45
38:4:113:U:N3	75:O9:7:PHE:CE2	2.85	0.45
41:L4:10:SER:C	41:L4:12:THR:H	2.24	0.45
41:L4:169:LEU:HD12	41:L4:219:LEU:HD21	1.99	0.45
41:L4:193:LYS:HE3	41:L4:193:LYS:HB2	1.50	0.45
41:L4:313:LEU:HD22	41:L4:313:LEU:HA	1.71	0.45
46:L9:103:ILE:HG13	46:L9:136:PHE:HE2	1.82	0.45
47:M0:189:GLU:HB3	47:M0:200:LEU:CB	2.46	0.45
51:M5:137:PRO:O	51:M5:143:ARG:NH1	2.50	0.45
51:M5:183:THR:O	51:M5:183:THR:HG23	2.17	0.45
1:6:95:G:N3	1:6:95:G:H2'	2.31	0.45
1:6:309:C:H2'	1:6:310:C:H6	1.82	0.45
1:6:417:A:H5'	1:6:418:G:C4	2.52	0.45
1:6:868:G:H1	1:6:960:U:H3	1.65	0.45
1:6:1124:A:O2'	1:6:1125:A:H5'	2.17	0.45
1:6:1450:U:H2'	1:6:1451:C:C6	2.52	0.45
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.17	0.45
7:s5:57:SER:HB2	30:d8:53:ILE:O	2.17	0.45
9:s7:27:LEU:O	9:s7:30:SER:OG	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:11:ARG:NH1	10:s8:15:GLY:O	2.49	0.45
34:sR:95:ALA:O	34:sR:96:THR:HG22	2.16	0.45
34:sR:164:ASP:O	34:sR:166:SER:N	2.50	0.45
36:5:624:G:C2	36:5:625:G:C5	3.04	0.45
36:5:814:U:C2	36:5:815:G:C8	3.04	0.45
36:5:1095:U:H3	57:n1:127:GLN:HG3	1.80	0.45
36:5:1134:G:C2	36:5:1135:A:N7	2.84	0.45
36:5:1235:U:H4'	36:5:1236:G:H5'	1.98	0.45
36:5:1656:A:O2'	86:5:4172:OHX:N2	2.49	0.45
36:5:2429:G:C2	36:5:2601:A:C2	3.05	0.45
36:5:2802:A:H5'	78:q2:56:PRO:HB2	1.98	0.45
36:5:2881:C:C2	36:5:2882:U:C5	3.05	0.45
36:5:3364:C:OP1	86:5:3935:OHX:N1	2.49	0.45
38:8:116:G:H1	38:8:137:C:H42	1.65	0.45
40:l3:185:GLY:O	40:l3:191:LYS:NZ	2.38	0.45
42:l5:211:LEU:HD13	42:l5:219:PHE:HA	1.99	0.45
45:l8:146:LYS:HE2	45:l8:146:LYS:O	2.17	0.45
48:m1:81:GLU:O	48:m1:83:GLY:N	2.49	0.45
49:m3:2:ALA:N	64:n8:31:GLY:O	2.50	0.45
52:m6:12:LYS:O	56:n0:167:ARG:NH2	2.50	0.45
54:m8:16:ARG:NH2	54:m8:20:LYS:HB2	2.31	0.45
55:m9:7:GLN:CD	55:m9:7:GLN:H	2.23	0.45
56:n0:27:MET:HE2	56:n0:27:MET:HB3	1.83	0.45
60:n4:99:GLU:OE1	60:n4:99:GLU:N	2.44	0.45
66:o0:99:ASP:O	66:o0:101:LEU:N	2.50	0.45
67:o1:75:ILE:HG23	67:o1:93:VAL:HG13	1.99	0.45
71:o5:13:SER:O	71:o5:14:LYS:C	2.60	0.45
79:q3:53:GLY:HA2	79:q3:67:GLY:O	2.17	0.45
1:2:3:U:H5''	4:S2:198:THR:O	2.15	0.45
1:2:48:G:C6	1:2:432:G:C2	3.05	0.45
1:2:55:A:C2	1:2:403:G:C5	3.05	0.45
1:2:800:U:H2'	1:2:801:G:H8	1.82	0.45
1:2:892:A:C6	1:2:893:U:C4	3.04	0.45
1:2:915:A:H2'	1:2:915:A:N3	2.31	0.45
1:2:1291:G:N2	1:2:1324:G:H22	2.14	0.45
1:2:1595:U:H5	1:2:1596:C:C5	2.34	0.45
3:S1:28:GLU:HG3	3:S1:29:TRP:H	1.81	0.45
3:S1:40:ASN:OD1	3:S1:73:LEU:HA	2.16	0.45
16:C4:41:ARG:O	16:C4:42:VAL:HG22	2.16	0.45
16:C4:112:ILE:O	28:D6:58:VAL:HG22	2.17	0.45
20:C8:11:PHE:HB2	20:C8:59:GLY:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:11:PHE:CD2	20:C8:59:GLY:HA3	2.39	0.45
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.97	0.45
35:SM:66:ALA:O	35:SM:70:ASN:HB2	2.17	0.45
36:1:246:U:H2'	36:1:247:C:H6	1.82	0.45
36:1:595:G:H2'	36:1:596:C:C6	2.51	0.45
36:1:1184:A:OP2	86:1:4059:OHX:N3	2.49	0.45
36:1:1340:G:H2'	36:1:1341:U:C6	2.52	0.45
36:1:1517:G:OP1	75:O9:41:ARG:NH2	2.29	0.45
36:1:1554:U:O2'	36:1:1582:C:H5	1.98	0.45
36:1:1578:C:H3'	36:1:1579:C:C6	2.51	0.45
36:1:2561:A:N1	45:L8:32:LYS:HB2	2.32	0.45
36:1:3068:U:OP1	55:M9:59:SER:OG	2.32	0.45
41:L4:3:ARG:HA	41:L4:4:PRO:HD2	1.54	0.45
41:L4:316:ASN:OD1	41:L4:318:LEU:HB2	2.17	0.45
42:L5:95:TRP:CH2	42:L5:161:GLY:HA2	2.52	0.45
44:L7:34:LYS:C	44:L7:36:ALA:H	2.25	0.45
44:L7:38:LYS:HB2	44:L7:38:LYS:HE3	1.69	0.45
53:M7:101:ASN:O	53:M7:105:LYS:HG3	2.17	0.45
58:N2:99:LYS:HD2	58:N2:102:GLU:CD	2.42	0.45
66:O0:16:LEU:HD22	66:O0:16:LEU:HA	1.73	0.45
70:O4:24:LYS:HE3	70:O4:24:LYS:HB2	1.78	0.45
76:Q0:79:GLU:HA	76:Q0:80:PRO:HD3	1.75	0.45
1:6:83:G:H8	1:6:83:G:O5'	2.00	0.45
1:6:119:A:OP2	1:6:120:U:H5	1.99	0.45
1:6:325:G:H4'	13:c1:83:THR:HG21	1.98	0.45
1:6:862:A:OP1	15:c3:20:ARG:NE	2.43	0.45
1:6:931:C:H5''	3:s1:116:LYS:HG3	1.99	0.45
1:6:1030:A:C5	1:6:1792:G:C6	3.05	0.45
1:6:1050:G:O6	86:6:2195:OHX:N4	2.49	0.45
1:6:1172:G:H2'	1:6:1173:C:O4'	2.17	0.45
1:6:1314:U:OP2	86:6:2184:OHX:N4	2.50	0.45
1:6:1389:C:H4'	19:c7:49:LYS:HA	1.99	0.45
1:6:1594:G:H5'	31:d9:33:LYS:HE3	1.99	0.45
1:6:1654:G:P	77:q1:21:ARG:HH11	2.40	0.45
2:s0:69:ASN:HB3	2:s0:71:GLU:CD	2.42	0.45
2:s0:163:ASN:C	2:s0:165:ARG:H	2.24	0.45
7:s5:142:PRO:HG2	7:s5:170:GLN:NE2	2.32	0.45
7:s5:143:ARG:HD3	30:d8:55:VAL:HG11	1.98	0.45
15:c3:70:LYS:HB3	15:c3:70:LYS:HE2	1.68	0.45
16:c4:84:ARG:HB3	16:c4:118:VAL:HG23	1.98	0.45
26:d4:63:GLN:HG3	26:d4:64:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:88:PRO:HA	33:e1:89:LYS:HA	1.70	0.45
36:5:138:U:H2'	36:5:139:G:H8	1.82	0.45
36:5:607:A:H2'	36:5:607:A:N3	2.32	0.45
36:5:900:G:H2'	36:5:901:G:C8	2.51	0.45
36:5:1238:C:H2'	36:5:1239:C:H6	1.82	0.45
36:5:2213:A:N1	36:5:2429:G:H1'	2.32	0.45
36:5:2518:C:H2'	36:5:2519:A:H8	1.81	0.45
36:5:2877:G:H2'	36:5:2878:G:O4'	2.16	0.45
36:5:3254:G:C6	36:5:3255:U:C4	3.05	0.45
36:5:3330:A:H5''	36:5:3330:A:H8	1.81	0.45
37:7:112:G:H2'	37:7:113:C:C6	2.51	0.45
38:8:94:C:H3'	73:o7:72:ARG:HH11	1.81	0.45
39:l2:95:SER:O	39:l2:97:ASN:N	2.48	0.45
45:l8:73:PRO:O	45:l8:77:GLN:N	2.50	0.45
49:m3:64:LYS:HA	64:n8:69:TRP:CE3	2.52	0.45
49:m3:192:GLU:O	49:m3:194:GLU:N	2.49	0.45
52:m6:94:ARG:O	52:m6:97:ALA:HB3	2.17	0.45
61:n5:82:LEU:HD11	61:n5:135:ILE:HD12	1.99	0.45
62:n6:39:LEU:O	62:n6:43:TYR:N	2.41	0.45
64:n8:58:MET:HE3	64:n8:58:MET:HB2	1.75	0.45
67:o1:72:ARG:O	67:o1:96:VAL:HG13	2.17	0.45
71:o5:94:LYS:O	71:o5:98:SER:OG	2.10	0.45
74:o8:16:ARG:HB3	74:o8:17:ARG:H	1.63	0.45
78:q2:14:GLY:C	78:q2:16:THR:H	2.25	0.45
81:p0:24:SER:OG	81:p0:192:ASP:HB3	2.17	0.45
1:2:1062:A:H2'	1:2:1063:U:O4'	2.17	0.45
1:2:1241:G:H1'	17:C5:79:HIS:CD2	2.51	0.45
1:2:1542:G:H5''	21:C9:88:VAL:N	2.32	0.45
86:2:2089:OHX:N3	86:2:2131:OHX:N6	2.65	0.45
3:S1:97:LEU:HD13	3:S1:97:LEU:HA	1.78	0.45
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	1.98	0.45
6:S4:136:VAL:HG11	6:S4:148:ARG:CZ	2.47	0.45
11:S9:65:LYS:HA	11:S9:70:LEU:HD11	1.99	0.45
24:D2:7:LEU:HD11	24:D2:37:PHE:HD2	1.82	0.45
27:D5:80:LEU:HD23	27:D5:80:LEU:HA	1.73	0.45
34:SR:210:LEU:HD23	34:SR:210:LEU:HA	1.79	0.45
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.47	0.45
35:SM:102:THR:CG2	35:SM:105:LYS:HB2	2.47	0.45
36:1:835:G:O2'	36:1:857:G:N2	2.37	0.45
36:1:1002:A:H2'	36:1:1003:A:H8	1.81	0.45
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1077:U:O2'	36:1:1078:U:H5'	2.16	0.45
36:1:1354:G:H8	36:1:1354:G:O5'	2.00	0.45
36:1:1565:G:H2'	36:1:1566:A:H8	1.82	0.45
36:1:1607:U:O2'	36:1:1608:C:H5'	2.17	0.45
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.32	0.45
36:1:1877:U:OP2	86:1:3920:OHX:N2	2.50	0.45
36:1:1902:G:C6	36:1:1903:U:C2	3.05	0.45
36:1:1907:C:C5	36:1:1908:A:C5	3.05	0.45
36:1:2112:U:O2'	86:1:3952:OHX:N1	2.50	0.45
36:1:2399:A:N6	36:1:2400:G:C6	2.85	0.45
36:1:2799:A:H1'	64:N8:42:ARG:NH2	2.31	0.45
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.36	0.45
86:1:3862:OHX:N2	73:O7:46:SER:HB3	2.32	0.45
38:4:11:C:H2'	38:4:12:A:O4'	2.17	0.45
41:L4:182:LEU:C	41:L4:184:SER:N	2.75	0.45
43:L6:172:HIS:HB3	69:O3:44:TYR:CE2	2.52	0.45
45:L8:224:ASP:C	45:L8:226:TYR:H	2.25	0.45
51:M5:49:ARG:HA	51:M5:53:TYR:HB3	1.98	0.45
53:M7:41:LEU:N	53:M7:113:TYR:HA	2.32	0.45
55:M9:36:ASN:OD1	55:M9:37:SER:N	2.49	0.45
55:M9:60:LYS:O	55:M9:64:ARG:HG3	2.17	0.45
55:M9:99:LEU:HD11	55:M9:103:ARG:CZ	2.47	0.45
59:N3:66:LYS:HB2	59:N3:69:LEU:HD22	1.99	0.45
1:6:1360:A:C3'	1:6:1361:U:H4'	2.47	0.45
1:6:1514:U:H4'	1:6:1515:A:C4	2.52	0.45
1:6:1716:C:O2'	1:6:1717:G:O5'	2.29	0.45
2:s0:151:SER:HA	2:s0:152:PRO:HD2	1.75	0.45
4:s2:54:GLU:H	4:s2:54:GLU:HG2	1.53	0.45
6:s4:16:HIS:C	6:s4:16:HIS:HD1	2.25	0.45
20:c8:25:ASN:O	27:d5:40:VAL:HG21	2.17	0.45
28:d6:10:ARG:HH11	28:d6:36:ILE:HG13	1.81	0.45
34:sR:95:ALA:O	34:sR:97:GLY:N	2.49	0.45
36:5:266:A:N6	72:o6:29:LYS:O	2.50	0.45
36:5:900:G:C6	36:5:901:G:C6	3.05	0.45
36:5:916:G:N7	36:5:924:G:C6	2.85	0.45
36:5:979:U:H4'	36:5:980:A:H5'	1.98	0.45
36:5:1807:G:C6	36:5:1808:G:N1	2.85	0.45
36:5:2209:U:H4'	36:5:2210:G:OP1	2.15	0.45
36:5:2516:U:O2	36:5:2594:C:N4	2.49	0.45
36:5:2822:U:H2'	36:5:2823:G:O4'	2.17	0.45
36:5:3051:U:C2	36:5:3052:G:C8	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3189:G:C2	36:5:3190:C:C2	3.05	0.45
36:5:3375:A:C8	36:5:3378:C:H5	2.35	0.45
38:8:41:A:N7	38:8:42:G:C8	2.85	0.45
39:12:65:ASP:HB3	39:12:68:LYS:O	2.16	0.45
39:12:237:LEU:H	39:12:237:LEU:HG	1.59	0.45
40:13:113:GLU:CD	40:13:167:ARG:HD3	2.42	0.45
40:13:371:GLN:HG3	60:n4:14:TYR:CE1	2.52	0.45
42:15:40:HIS:ND1	57:n1:69:LYS:HA	2.32	0.45
44:17:75:TYR:CD1	56:n0:60:SER:HB2	2.51	0.45
44:17:80:GLN:OE1	57:n1:136:ARG:HB2	2.17	0.45
45:18:56:VAL:O	45:18:60:ARG:HG3	2.17	0.45
46:19:92:TYR:CD2	46:19:92:TYR:N	2.83	0.45
49:m3:76:THR:HG23	49:m3:79:GLU:CD	2.41	0.45
52:m6:125:ARG:HG3	52:m6:129:LEU:HD23	1.99	0.45
52:m6:138:LEU:O	52:m6:139:GLY:C	2.59	0.45
55:m9:47:ASN:OD1	55:m9:49:THR:HG23	2.17	0.45
57:n1:108:ARG:O	57:n1:112:ASN:HB2	2.16	0.45
62:n6:56:VAL:HG23	62:n6:106:ILE:HA	1.99	0.45
64:n8:74:ASN:CB	64:n8:76:ASP:HB3	2.47	0.45
64:n8:135:GLU:O	64:n8:135:GLU:HG2	2.17	0.45
71:o5:54:VAL:O	71:o5:58:ILE:HG13	2.17	0.45
71:o5:57:VAL:O	71:o5:61:GLN:HG3	2.17	0.45
81:p0:218:SER:HA	81:p0:221:ALA:HB3	1.99	0.45
1:2:180:A:H2'	1:2:181:A:O4'	2.17	0.45
1:2:289:U:H2'	1:2:290:G:O4'	2.17	0.45
1:2:435:C:H2'	1:2:436:A:C8	2.52	0.45
1:2:902:G:H8	1:2:902:G:O5'	2.00	0.45
1:2:927:C:H1'	16:C4:125:SER:CB	2.47	0.45
1:2:1014:G:H2'	1:2:1015:U:O4'	2.16	0.45
1:2:1145:U:C4	1:2:1146:G:N7	2.86	0.45
1:2:1530:C:OP2	27:D5:95:HIS:ND1	2.27	0.45
1:2:1718:G:H2'	1:2:1719:A:O4'	2.17	0.45
3:S1:81:PHE:HE1	3:S1:109:LYS:HE2	1.81	0.45
5:S3:20:GLU:HG3	12:C0:61:TRP:CG	2.51	0.45
5:S3:167:PHE:HA	5:S3:190:ARG:NE	2.32	0.45
6:S4:148:ARG:NH1	8:S6:201:GLN:OE1	2.46	0.45
7:S5:205:SER:O	7:S5:207:THR:N	2.50	0.45
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.74	0.45
10:S8:34:ALA:HB2	10:S8:56:ARG:HG3	1.99	0.45
11:S9:54:ARG:HH11	11:S9:55:ALA:HB2	1.81	0.45
16:C4:117:ASP:OD1	16:C4:119:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:53:PRO:HG2	17:C5:57:MET:HG3	1.99	0.45
22:D0:23:ARG:HD2	22:D0:90:TYR:CD1	2.52	0.45
25:D3:19:ARG:O	25:D3:20:ARG:C	2.60	0.45
30:D8:36:THR:O	30:D8:37:SER:OG	2.27	0.45
36:1:160:G:O6	86:1:4191:OHX:N6	2.50	0.45
36:1:600:G:H5'	36:1:601:U:OP2	2.17	0.45
36:1:846:A:H3'	36:1:847:A:H8	1.81	0.45
36:1:936:A:OP1	64:N8:28:HIS:ND1	2.39	0.45
36:1:2657:A:C2	36:1:2694:A:C8	3.05	0.45
36:1:2948:C:H2'	36:1:2949:U:H6	1.81	0.45
36:1:3084:C:O2'	36:1:3332:U:OP1	2.32	0.45
86:1:4027:OHX:N4	86:1:4040:OHX:N1	2.65	0.45
41:L4:156:LEU:C	41:L4:158:SER:H	2.23	0.45
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.52	0.45
47:M0:144:ASN:O	47:M0:145:LYS:C	2.60	0.45
49:M3:45:LYS:C	49:M3:47:ALA:H	2.25	0.45
49:M3:168:ARG:HA	49:M3:171:ARG:HB2	1.99	0.45
50:M4:39:ILE:O	56:N0:95:ARG:HD3	2.17	0.45
51:M5:37:HIS:NE2	51:M5:63:ARG:NH1	2.65	0.45
52:M6:117:ARG:H	52:M6:117:ARG:HG2	1.55	0.45
52:M6:138:LEU:O	52:M6:140:LYS:N	2.50	0.45
53:M7:26:PHE:O	53:M7:27:LYS:C	2.59	0.45
54:M8:62:VAL:HG13	54:M8:66:ARG:HD3	1.98	0.45
54:M8:73:GLN:HB3	54:M8:76:ALA:HB3	1.98	0.45
55:M9:171:ASP:O	55:M9:175:GLN:NE2	2.49	0.45
56:N0:124:LEU:HD23	56:N0:124:LEU:HA	1.69	0.45
56:N0:166:LYS:HB3	56:N0:167:ARG:H	1.54	0.45
63:N7:42:LEU:HD23	63:N7:101:PHE:HE1	1.82	0.45
64:N8:118:ILE:H	64:N8:118:ILE:HD13	1.82	0.45
68:O2:22:SER:HA	68:O2:28:VAL:CG1	2.46	0.45
1:6:907:A:H1'	1:6:997:G:O2'	2.17	0.45
1:6:1192:C:H3'	1:6:1193:A:H2'	1.99	0.45
1:6:1512:G:C5	1:6:1513:G:N7	2.85	0.45
1:6:1530:C:OP2	27:d5:96:SER:HB3	2.16	0.45
1:6:1559:A:C4	20:c8:134:ARG:HG2	2.50	0.45
5:s3:209:ILE:O	19:c7:20:TYR:OH	2.28	0.45
13:c1:86:ILE:HG13	13:c1:107:VAL:O	2.17	0.45
14:c2:30:VAL:HG11	14:c2:132:GLU:OE1	2.17	0.45
20:c8:33:THR:HA	20:c8:38:VAL:HG23	1.99	0.45
20:c8:54:LEU:C	20:c8:56:LYS:H	2.24	0.45
23:d1:18:SER:HG	23:d1:54:ALA:H	1.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:22:G:N2	38:8:35:C:O2	2.46	0.45
36:5:374:A:N3	36:5:376:G:H5''	2.32	0.45
36:5:847:A:H2'	36:5:848:A:H8	1.75	0.45
36:5:949:C:O2'	36:5:971:G:OP1	2.26	0.45
36:5:1018:G:H2'	36:5:1019:G:O4'	2.17	0.45
36:5:1171:G:O6	86:5:3995:OHX:N1	2.50	0.45
36:5:1340:G:C5	36:5:1341:U:C5	3.05	0.45
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.48	0.45
36:5:1779:C:H5'	55:m9:97:ARG:HH21	1.81	0.45
36:5:2971:A:H5''	36:5:2972:G:C5'	2.47	0.45
36:5:3191:G:P	52:m6:172:ARG:HD2	2.56	0.45
86:7:220:OHX:N3	86:7:228:OHX:N6	2.64	0.45
38:8:133:G:H5''	61:n5:55:ASN:ND2	2.31	0.45
41:14:49:ALA:HA	41:14:109:TRP:CZ2	2.52	0.45
41:14:215:ILE:HA	41:14:218:ALA:HB3	2.00	0.45
41:14:286:VAL:HG11	54:m8:31:LYS:HE3	1.99	0.45
41:14:325:LEU:HD23	41:14:325:LEU:HA	1.76	0.45
42:15:268:GLU:HG3	42:15:269:SER:N	2.30	0.45
44:17:127:LEU:HD23	44:17:127:LEU:HA	1.57	0.45
52:m6:34:VAL:HB	52:m6:103:LYS:HB2	1.98	0.45
53:m7:69:ARG:HG2	53:m7:79:THR:OG1	2.16	0.45
56:n0:109:ASP:O	56:n0:112:ALA:N	2.50	0.45
56:n0:148:LEU:HD22	56:n0:149:LYS:N	2.32	0.45
57:n1:40:VAL:HB	57:n1:96:ILE:HG23	1.99	0.45
62:n6:27:ARG:NH1	62:n6:75:ARG:O	2.50	0.45
63:n7:136:PHE:CD1	70:o4:89:ILE:HG12	2.52	0.45
68:o2:71:HIS:HB3	68:o2:92:TYR:C	2.42	0.45
70:o4:74:ARG:NH2	70:o4:82:ALA:HB2	2.32	0.45
1:2:301:A:C6	1:2:302:U:C4	3.05	0.44
1:2:627:C:H2'	1:2:628:G:O4'	2.18	0.44
1:2:863:A:H2'	1:2:865:A:H8	1.81	0.44
1:2:869:A:H2'	1:2:870:C:O4'	2.16	0.44
1:2:1378:U:H2'	1:2:1379:C:O4'	2.18	0.44
1:2:1459:C:H42	20:C8:139:LYS:HE2	1.82	0.44
2:S0:179:ARG:HH11	2:S0:183:ARG:NH1	2.14	0.44
3:S1:62:LYS:HE2	3:S1:62:LYS:HB2	1.87	0.44
4:S2:211:LEU:C	4:S2:213:ALA:N	2.74	0.44
5:S3:45:LYS:HE2	5:S3:45:LYS:HB2	1.83	0.44
7:S5:119:ASP:O	7:S5:122:ASN:ND2	2.40	0.44
10:S8:40:ALA:O	10:S8:59:ARG:HB3	2.17	0.44
11:S9:69:ARG:O	11:S9:73:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:64:ALA:HB3	16:C4:104:ALA:HB3	1.99	0.44
19:C7:27:ASP:HB3	19:C7:30:THR:HG22	1.98	0.44
21:C9:40:SER:CB	21:C9:96:ALA:HA	2.47	0.44
21:C9:114:VAL:HG23	21:C9:123:ARG:O	2.17	0.44
25:D3:61:SER:HB3	25:D3:69:ARG:HD2	1.99	0.44
31:D9:22:ARG:HD2	31:D9:38:ILE:HG12	1.99	0.44
34:SR:201:THR:HB	34:SR:242:SER:N	2.26	0.44
36:1:238:A:C2'	36:1:239:G:H5'	2.47	0.44
36:1:328:U:P	49:M3:23:LYS:HE3	2.58	0.44
36:1:409:A:H61	38:4:15:G:H1'	1.82	0.44
36:1:558:U:O5'	36:1:558:U:H6	2.00	0.44
36:1:613:G:C6	36:1:614:C:C4	3.05	0.44
36:1:744:A:H2'	36:1:745:C:O4'	2.17	0.44
36:1:933:A:C2	41:L4:98:ARG:NH1	2.85	0.44
36:1:1699:A:H2'	36:1:1700:G:H8	1.81	0.44
36:1:2305:G:OP2	36:1:2305:G:N2	2.43	0.44
36:1:2337:C:H2'	36:1:2338:C:H6	1.81	0.44
37:3:109:G:C6	37:3:110:G:C5	3.05	0.44
40:L3:305:ILE:HG12	40:L3:321:PHE:CZ	2.52	0.44
42:L5:234:ASP:N	42:L5:234:ASP:OD2	2.50	0.44
43:L6:57:HIS:NE2	43:L6:61:ASN:HA	2.31	0.44
43:L6:97:ASN:O	43:L6:98:VAL:HB	2.16	0.44
45:L8:61:GLN:HB3	51:M5:28:TRP:CH2	2.51	0.44
45:L8:133:LYS:HD2	45:L8:138:HIS:HE1	1.82	0.44
45:L8:143:ILE:HG23	45:L8:175:VAL:HG21	1.99	0.44
49:M3:165:SER:HB3	49:M3:168:ARG:HB3	1.99	0.44
51:M5:49:ARG:HB2	51:M5:49:ARG:NH1	2.32	0.44
53:M7:176:ILE:O	53:M7:179:GLN:HB2	2.17	0.44
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.81	0.44
70:O4:59:PRO:HA	70:O4:62:TYR:HD2	1.82	0.44
1:6:489:C:C4	1:6:498:G:N2	2.85	0.44
1:6:887:A:H5''	16:c4:120:PRO:HB2	1.99	0.44
1:6:1239:U:O4	86:6:2096:OHX:N2	2.50	0.44
1:6:1469:A:OP1	21:c9:91:TYR:OH	2.14	0.44
1:6:1796:C:C6	28:d6:5:ARG:HG2	2.51	0.44
4:s2:57:PHE:CZ	4:s2:138:PRO:HD3	2.51	0.44
7:s5:62:VAL:HG13	7:s5:89:ILE:HG21	1.99	0.44
7:s5:117:THR:O	7:s5:118:LEU:C	2.60	0.44
8:s6:20:ASP:OD2	8:s6:22:HIS:N	2.50	0.44
11:s9:63:ASP:C	11:s9:65:LYS:H	2.24	0.44
13:c1:33:ARG:HD2	13:c1:49:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:49:LYS:NZ	20:c8:80:LYS:HB2	2.32	0.44
21:c9:10:ALA:HB3	21:c9:13:ASP:HB2	1.99	0.44
26:d4:123:LYS:HE2	26:d4:123:LYS:HB3	1.69	0.44
33:e1:144:CYS:SG	33:e1:147:VAL:HG12	2.57	0.44
34:sR:170:ILE:HG21	34:sR:211:ILE:HD13	1.98	0.44
36:5:786:A:H4'	36:5:787:G:OP1	2.16	0.44
36:5:1114:U:O2'	36:5:1115:G:H5'	2.17	0.44
36:5:1210:U:H2'	36:5:1211:U:C6	2.51	0.44
36:5:1675:G:O6	86:5:3963:OHX:N4	2.51	0.44
36:5:2279:A:C2	36:5:2288:G:C6	3.06	0.44
36:5:2285:C:OP2	36:5:2286:U:O2'	2.35	0.44
36:5:2587:U:H4'	45:l8:49:TYR:HD2	1.81	0.44
37:7:47:C:O2'	37:7:48:U:H5'	2.17	0.44
40:l3:205:VAL:O	40:l3:207:SER:N	2.50	0.44
40:l3:221:THR:O	40:l3:272:TYR:HA	2.16	0.44
41:l4:128:ALA:O	41:l4:131:VAL:HG23	2.17	0.44
42:l5:29:ASP:O	42:l5:31:TYR:N	2.50	0.44
42:l5:34:LYS:HD2	57:n1:30:TYR:CZ	2.51	0.44
47:m0:150:GLU:OE2	47:m0:153:ARG:NH2	2.47	0.44
49:m3:116:LEU:HD23	49:m3:116:LEU:HA	1.70	0.44
49:m3:128:ARG:NH1	71:o5:109:ILE:O	2.50	0.44
49:m3:178:LYS:HD3	49:m3:179:PHE:CE2	2.53	0.44
51:m5:197:LEU:HA	51:m5:197:LEU:HD12	1.70	0.44
63:n7:3:LYS:HD3	66:o0:35:ARG:O	2.17	0.44
64:n8:83:PRO:HG2	64:n8:86:LYS:HB2	1.98	0.44
68:o2:20:HIS:ND1	68:o2:42:VAL:HG21	2.32	0.44
74:o8:14:LEU:O	74:o8:17:ARG:HB2	2.15	0.44
1:2:33:U:O4	86:2:2055:OHX:N3	2.50	0.44
1:2:88:U:H4'	1:2:171:A:O4'	2.17	0.44
1:2:121:U:C4	1:2:122:U:C4	3.05	0.44
1:2:129:U:O4	1:2:264:G:H2'	2.17	0.44
1:2:706:A:C6	1:2:734:A:N6	2.85	0.44
1:2:732:G:H2'	1:2:732:G:N3	2.31	0.44
1:2:932:U:H4'	1:2:933:A:O4'	2.18	0.44
1:2:1053:G:C6	1:2:1054:U:C4	3.05	0.44
1:2:1086:A:H5''	1:2:1087:A:OP2	2.18	0.44
1:2:1546:G:OP1	20:C8:123:ARG:HD2	2.17	0.44
1:2:1657:U:H4'	1:2:1658:G:O5'	2.17	0.44
7:S5:30:PRO:HD2	7:S5:33:VAL:HG11	1.98	0.44
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.99	0.44
7:S5:94:THR:O	7:S5:95:ASN:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:49:ILE:O	9:S7:57:ALA:N	2.50	0.44
11:S9:17:ARG:HD3	11:S9:20:GLU:OE2	2.17	0.44
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.52	0.44
23:D1:14:PRO:HB2	23:D1:23:ILE:HG23	2.00	0.44
28:D6:17:HIS:ND1	28:D6:18:VAL:O	2.50	0.44
34:SR:43:ILE:HD13	34:SR:60:SER:HA	1.98	0.44
36:1:1362:G:O2'	36:1:1363:A:H5'	2.17	0.44
36:1:1520:G:O2'	36:1:1603:A:N1	2.47	0.44
36:1:1840:U:O2	36:1:1850:A:H5'	2.17	0.44
36:1:1845:G:N2	36:1:1851:G:C4	2.85	0.44
36:1:2366:C:N4	36:1:2381:G:H1	2.14	0.44
36:1:2585:G:C2	38:4:151:C:H5	2.35	0.44
38:4:42:G:C4	38:4:43:A:C8	3.05	0.44
38:4:68:G:OP1	73:O7:86:ALA:N	2.49	0.44
38:4:111:A:OP2	73:O7:32:LYS:HE3	2.18	0.44
40:L3:238:LEU:HB2	40:L3:246:LEU:O	2.17	0.44
41:L4:349:THR:HG21	44:L7:64:GLN:NE2	2.33	0.44
42:L5:37:VAL:HG12	57:N1:31:LEU:HD21	1.98	0.44
42:L5:233:ALA:O	42:L5:236:LEU:N	2.39	0.44
51:M5:104:GLU:O	51:M5:108:ARG:HG3	2.16	0.44
54:M8:64:VAL:HG12	54:M8:90:ASP:H	1.83	0.44
54:M8:83:VAL:C	54:M8:85:GLY:H	2.24	0.44
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.18	0.44
58:N2:22:PRO:HG3	58:N2:105:LEU:HB3	1.99	0.44
69:O3:39:GLN:C	69:O3:41:ALA:H	2.25	0.44
69:O3:87:ASN:OD1	69:O3:87:ASN:N	2.50	0.44
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.52	0.44
72:O6:68:ARG:O	72:O6:72:VAL:HG23	2.16	0.44
74:O8:65:LEU:O	74:O8:69:LEU:HD22	2.16	0.44
1:6:356:G:OP2	86:6:2074:OHX:N5	2.51	0.44
1:6:531:C:O2	26:d4:62:THR:HG23	2.17	0.44
1:6:624:G:N2	1:6:976:G:H1'	2.32	0.44
1:6:640:U:H2'	1:6:641:G:C8	2.52	0.44
1:6:861:U:H5'	1:6:862:A:OP2	2.17	0.44
1:6:958:U:H2'	15:c3:14:SER:OG	2.17	0.44
1:6:1192:C:OP2	1:6:1193:A:O2'	2.30	0.44
1:6:1520:U:OP2	21:c9:75:LYS:HE2	2.17	0.44
1:6:1570:A:C6	1:6:1571:C:C2	3.05	0.44
1:6:1647:U:O2	80:e0:2:ALA:HA	2.17	0.44
5:s3:17:PHE:CE1	5:s3:79:TYR:HE2	2.36	0.44
5:s3:158:ILE:H	5:s3:158:ILE:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:171:ARG:NH1	11:s9:174:ARG:HB3	2.32	0.44
14:c2:89:ILE:HD13	14:c2:89:ILE:O	2.18	0.44
18:c6:15:SER:OG	18:c6:72:GLY:N	2.50	0.44
18:c6:82:ARG:NH1	18:c6:114:ARG:HB2	2.32	0.44
18:c6:116:LEU:HD23	18:c6:116:LEU:HA	1.76	0.44
21:c9:28:LEU:HB3	21:c9:29:GLU:H	1.58	0.44
25:d3:17:VAL:HG23	25:d3:20:ARG:NH2	2.32	0.44
26:d4:103:ALA:O	26:d4:108:ARG:HG3	2.18	0.44
28:d6:10:ARG:HD3	28:d6:34:LYS:CA	2.44	0.44
34:sR:40:LYS:HB3	34:sR:64:HIS:O	2.17	0.44
36:5:198:A:C6	36:5:219:A:C6	3.05	0.44
36:5:720:A:O2'	36:5:784:A:OP2	2.24	0.44
36:5:1062:A:H4'	57:n1:105:PHE:CE2	2.52	0.44
36:5:1522:U:H4'	36:5:1523:U:OP2	2.17	0.44
36:5:1670:C:OP1	86:5:4229:OHX:N3	2.51	0.44
36:5:1752:A:OP2	86:5:4074:OHX:N3	2.51	0.44
36:5:1763:U:H3'	36:5:1764:U:C6	2.53	0.44
36:5:1784:G:H2'	36:5:1785:U:O4'	2.17	0.44
36:5:2137:U:C6	36:5:2141:U:C5	3.06	0.44
36:5:2407:C:O2	36:5:2818:U:N3	2.41	0.44
36:5:3078:U:O2'	86:5:4190:OHX:N1	2.50	0.44
36:5:3150:A:H5'	40:l3:129:ALA:O	2.16	0.44
36:5:3160:U:C2	36:5:3291:G:C2	3.05	0.44
36:5:3255:U:H2'	36:5:3256:G:H8	1.79	0.44
36:5:3313:U:O3'	40:l3:173:GLN:HB2	2.16	0.44
40:l3:81:THR:O	40:l3:81:THR:CG2	2.65	0.44
40:l3:85:VAL:O	40:l3:162:VAL:HA	2.17	0.44
40:l3:262:TRP:N	52:m6:64:PHE:O	2.50	0.44
40:l3:286:GLY:HA3	40:l3:321:PHE:CE2	2.52	0.44
41:l4:301:PRO:O	41:l4:302:ALA:HB3	2.17	0.44
51:m5:160:GLU:OE1	51:m5:160:GLU:N	2.49	0.44
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.32	0.44
61:n5:105:VAL:HG13	61:n5:130:TYR:CD1	2.52	0.44
62:n6:36:SER:OG	62:n6:38:GLU:HB2	2.17	0.44
69:o3:6:ARG:HD2	69:o3:8:TYR:O	2.16	0.44
81:p0:77:LEU:C	81:p0:79:PHE:H	2.25	0.44
1:2:198:A:H2'	1:2:198:A:N3	2.31	0.44
1:2:314:C:C2	1:2:355:G:C2	3.05	0.44
1:2:1064:G:O2'	3:S1:204:ILE:O	2.34	0.44
1:2:1734:U:H2'	1:2:1735:U:H6	1.82	0.44
2:S0:102:PHE:HZ	2:S0:107:PHE:CE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	2.00	0.44
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.21	0.44
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.30	0.44
26:D4:15:ASN:ND2	26:D4:18:LEU:HB2	2.32	0.44
28:D6:36:ILE:HD12	28:D6:78:ALA:CB	2.47	0.44
29:D7:23:THR:HG21	29:D7:29:ARG:HH21	1.83	0.44
30:D8:12:VAL:HG11	30:D8:49:ARG:O	2.17	0.44
30:D8:19:THR:HG22	30:D8:20:GLY:H	1.83	0.44
36:1:250:U:H5''	36:1:251:G:H5''	1.99	0.44
36:1:268:A:C4	51:M5:12:ARG:HG2	2.52	0.44
36:1:748:U:H2'	36:1:749:C:C6	2.51	0.44
36:1:1302:A:N1	36:1:2832:C:O2'	2.44	0.44
36:1:1307:G:H4'	36:1:1308:A:O5'	2.18	0.44
36:1:1488:G:O2'	70:O4:10:ARG:O	2.34	0.44
36:1:1619:A:C2	36:1:1826:C:C2	3.06	0.44
36:1:1715:A:H4'	36:1:1716:U:OP1	2.17	0.44
36:1:2107:A:C2	36:1:2108:C:C2	3.06	0.44
36:1:2356:A:OP1	53:M7:138:LYS:NZ	2.49	0.44
36:1:2603:G:H2'	36:1:2604:U:O4'	2.18	0.44
36:1:3046:A:C5	36:1:3047:U:C5	3.05	0.44
36:1:3082:C:H2'	36:1:3083:G:C8	2.52	0.44
36:1:3084:C:OP2	86:1:3879:OHX:N5	2.50	0.44
36:1:3131:U:H2'	36:1:3132:C:C6	2.53	0.44
36:1:3310:A:C2'	36:1:3311:C:H5'	2.48	0.44
86:1:4023:OHX:N4	86:1:4143:OHX:N3	2.65	0.44
37:3:90:U:C4	37:3:91:G:C5	3.05	0.44
38:4:98:U:H2'	38:4:99:C:H5'	1.99	0.44
40:L3:261:MET:HE1	52:M6:63:ALA:HB1	1.98	0.44
48:M1:15:GLU:HG2	48:M1:16:LYS:HE2	1.99	0.44
54:M8:23:ASN:OD1	54:M8:25:TYR:N	2.50	0.44
59:N3:45:ARG:O	59:N3:46:LEU:C	2.59	0.44
68:O2:75:LEU:HD23	68:O2:75:LEU:HA	1.84	0.44
69:O3:90:PRO:O	69:O3:92:LYS:N	2.42	0.44
74:O8:67:GLN:HE21	74:O8:67:GLN:C	2.24	0.44
1:6:93:A:H1'	6:s4:3:ARG:O	2.17	0.44
1:6:157:A:H8	1:6:157:A:O5'	2.00	0.44
1:6:293:U:OP2	86:6:2136:OHX:N2	2.49	0.44
1:6:451:A:OP2	86:6:2061:OHX:N3	2.50	0.44
1:6:526:A:N6	1:6:527:A:C6	2.85	0.44
1:6:809:A:N6	1:6:810:G:O6	2.50	0.44
1:6:1187:U:O5'	1:6:1187:U:H6	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1255:G:H4'	1:6:1256:A:OP1	2.16	0.44
2:s0:199:PRO:C	2:s0:201:LEU:H	2.26	0.44
5:s3:28:GLU:HG3	5:s3:29:LEU:HD23	1.98	0.44
6:s4:181:VAL:CG1	6:s4:225:VAL:HG13	2.47	0.44
7:s5:96:SER:HB3	7:s5:176:THR:HG21	1.99	0.44
9:s7:133:THR:HG21	9:s7:159:VAL:HA	1.98	0.44
18:c6:32:ASN:N	18:c6:67:VAL:O	2.34	0.44
36:5:498:A:H5'	69:o3:86:ARG:HH12	1.83	0.44
36:5:692:A:C4	36:5:693:A:C8	3.06	0.44
36:5:920:A:OP1	36:5:922:U:C5	2.71	0.44
36:5:951:A:P	36:5:1367:G:H22	2.40	0.44
36:5:1341:U:H2'	36:5:1342:C:H6	1.82	0.44
36:5:1804:A:H2'	36:5:1805:C:C6	2.53	0.44
36:5:2106:A:H2'	36:5:2107:A:C8	2.53	0.44
36:5:3227:A:HO2'	50:m4:133:LYS:NZ	2.10	0.44
86:5:3966:OHX:N1	86:5:4238:OHX:N1	2.65	0.44
86:8:216:OHX:N6	86:8:223:OHX:N3	2.65	0.44
40:l3:339:ARG:NH2	40:l3:342:LEU:HD11	2.33	0.44
41:l4:13:GLY:O	41:l4:14:GLU:HG2	2.18	0.44
42:l5:131:LEU:HD11	42:l5:175:HIS:H	1.82	0.44
45:l8:244:ALA:HA	45:l8:247:ASP:HB2	1.98	0.44
46:l9:68:LEU:O	46:l9:71:VAL:N	2.49	0.44
47:m0:9:TYR:CG	47:m0:97:LEU:HD13	2.52	0.44
53:m7:94:LEU:CD2	53:m7:146:ILE:HB	2.48	0.44
55:m9:43:LYS:O	55:m9:47:ASN:HB2	2.17	0.44
60:n4:112:ASN:HB3	60:n4:115:LYS:NZ	2.32	0.44
64:n8:75:LEU:C	64:n8:77:LYS:N	2.75	0.44
67:o1:44:MET:HB3	67:o1:77:ARG:NH1	2.31	0.44
68:o2:83:GLU:C	68:o2:85:LEU:N	2.73	0.44
1:2:66:U:C5'	8:S6:173:PRO:HA	2.46	0.44
1:2:164:A:H1'	8:S6:13:GLN:NE2	2.32	0.44
1:2:245:U:O4	86:2:2092:OHX:N5	2.51	0.44
1:2:330:G:H2'	1:2:331:A:O4'	2.17	0.44
1:2:705:U:H2'	1:2:706:A:N7	2.33	0.44
1:2:1295:G:C6	1:2:1303:U:C2	3.06	0.44
1:2:1354:G:H5'	1:2:1355:C:OP2	2.17	0.44
1:2:1460:A:C5	35:SM:76:VAL:HG22	2.52	0.44
1:2:1766:A:H5''	86:2:2091:OHX:N6	2.32	0.44
2:S0:193:GLN:C	2:S0:195:TRP:H	2.25	0.44
3:S1:58:SER:O	3:S1:60:ALA:N	2.51	0.44
3:S1:97:LEU:HG	3:S1:232:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:143:THR:HA	3:S1:207:LEU:HA	1.99	0.44
4:S2:57:PHE:CE1	4:S2:138:PRO:HD3	2.52	0.44
5:S3:110:LEU:HD23	5:S3:110:LEU:HA	1.83	0.44
5:S3:167:PHE:O	5:S3:190:ARG:HD2	2.17	0.44
6:S4:34:GLY:HA3	6:S4:35:PRO:HD3	1.59	0.44
6:S4:156:VAL:O	6:S4:157:ASN:HB2	2.17	0.44
6:S4:246:LEU:HD23	6:S4:250:GLU:HB3	2.00	0.44
7:S5:177:ILE:HA	7:S5:180:ARG:HH11	1.82	0.44
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	1.98	0.44
11:S9:31:ALA:HA	11:S9:36:LEU:HG	2.00	0.44
12:C0:12:HIS:NE2	12:C0:49:LEU:HD21	2.32	0.44
15:C3:3:ARG:HB2	15:C3:8:GLY:O	2.18	0.44
16:C4:16:VAL:O	16:C4:30:VAL:HA	2.18	0.44
22:D0:50:LEU:HG	22:D0:94:GLU:O	2.17	0.44
25:D3:69:ARG:HD3	25:D3:117:ILE:HG12	1.98	0.44
29:D7:15:GLU:OE2	29:D7:24:LEU:N	2.44	0.44
34:SR:171:SER:HG	34:SR:179:LYS:HB2	1.82	0.44
36:1:59:G:H2'	38:4:33:A:O2'	2.17	0.44
36:1:350:C:N3	36:1:367:A:H2'	2.33	0.44
36:1:372:A:H2'	36:1:373:A:H8	1.82	0.44
36:1:1149:G:H21	36:1:1199:C:N4	2.15	0.44
36:1:1831:U:P	61:N5:92:LYS:HD3	2.57	0.44
36:1:2112:U:HO2'	36:1:2113:A:P	2.40	0.44
36:1:2185:G:P	39:L2:201:GLY:H	2.40	0.44
36:1:2265:C:H2'	36:1:2266:U:O4'	2.17	0.44
36:1:2373:A:N3	36:1:2824:G:O2'	2.45	0.44
36:1:3026:G:O2'	36:1:3028:G:N7	2.33	0.44
36:1:3131:U:O2'	36:1:3132:C:H5'	2.18	0.44
36:1:3344:A:H2	36:1:3361:G:N2	2.16	0.44
41:L4:24:ALA:HB2	41:L4:264:SER:HB3	1.99	0.44
41:L4:35:VAL:HG11	41:L4:244:LEU:HD21	2.00	0.44
41:L4:119:ARG:HG2	41:L4:274:TYR:CE2	2.52	0.44
41:L4:295:ILE:HD12	54:M8:132:PRO:HG3	2.00	0.44
42:L5:184:ASP:OD2	42:L5:187:THR:HG23	2.17	0.44
45:L8:84:ARG:HH22	45:L8:181:LYS:HZ3	1.65	0.44
45:L8:156:ASP:HB2	45:L8:157:VAL:H	1.65	0.44
53:M7:26:PHE:CD2	53:M7:121:GLN:HG2	2.53	0.44
57:N1:92:ARG:O	57:N1:94:GLU:N	2.51	0.44
58:N2:53:ALA:HB1	58:N2:68:THR:HG22	1.99	0.44
62:N6:104:LEU:HD23	62:N6:104:LEU:HA	1.75	0.44
64:N8:11:HIS:O	64:N8:14:HIS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:73:GLY:O	66:O0:75:ASN:N	2.51	0.44
68:O2:20:HIS:ND1	68:O2:42:VAL:HG21	2.33	0.44
68:O2:120:THR:O	68:O2:122:PRO:HD3	2.17	0.44
1:6:390:G:H2'	1:6:391:A:O4'	2.18	0.44
1:6:867:G:O6	86:6:2057:OHX:N1	2.50	0.44
1:6:1117:U:H2'	1:6:1118:G:H8	1.82	0.44
1:6:1153:G:OP2	28:d6:82:ARG:NH2	2.51	0.44
1:6:1173:C:OP1	20:c8:142:GLY:HA2	2.17	0.44
1:6:1217:A:C2	12:c0:27:PHE:HD2	2.36	0.44
1:6:1559:A:C5	20:c8:134:ARG:HG2	2.53	0.44
2:s0:73:VAL:O	2:s0:95:ALA:HB1	2.18	0.44
3:s1:231:LEU:HA	3:s1:231:LEU:HD23	1.71	0.44
7:s5:34:GLN:HA	18:c6:57:LEU:HD21	2.00	0.44
7:s5:35:GLN:HB3	7:s5:36:ALA:H	1.68	0.44
7:s5:217:LEU:HD23	7:s5:217:LEU:HA	1.87	0.44
10:s8:104:ILE:O	10:s8:164:ARG:HA	2.17	0.44
11:s9:129:ILE:O	11:s9:142:ASN:HA	2.16	0.44
12:c0:49:LEU:HB3	12:c0:55:VAL:HG13	2.00	0.44
14:c2:140:PHE:HD2	14:c2:140:PHE:HA	1.68	0.44
19:c7:80:ARG:HA	19:c7:83:GLN:CD	2.42	0.44
21:c9:20:SER:O	21:c9:24:ARG:HG3	2.18	0.44
23:d1:4:ASP:OD1	23:d1:5:LYS:HD2	2.17	0.44
28:d6:12:LYS:HB3	28:d6:13:LYS:H	1.71	0.44
30:d8:57:MET:O	30:d8:59:SER:N	2.50	0.44
33:e1:86:THR:O	33:e1:87:THR:OG1	2.33	0.44
36:5:24:G:H2'	36:5:25:U:O4'	2.17	0.44
36:5:201:A:H2'	36:5:202:G:C8	2.52	0.44
36:5:314:U:O4	86:5:4186:OHX:N5	2.49	0.44
36:5:607:A:H4'	36:5:608:A:OP2	2.17	0.44
36:5:855:U:C4	36:5:856:G:C6	3.06	0.44
36:5:1249:G:H2'	36:5:1250:G:C8	2.52	0.44
36:5:1650:G:H1	36:5:1805:C:H42	1.65	0.44
36:5:2345:A:H5''	67:o1:24:SER:HB3	1.99	0.44
36:5:2609:A:H2'	36:5:2610:G:H8	1.82	0.44
36:5:2973:G:N7	86:5:4112:OHX:N1	2.66	0.44
36:5:2993:G:H2'	36:5:3142:A:H61	1.81	0.44
36:5:3005:A:H5'	40:l3:98:GLY:HA3	2.00	0.44
38:8:65:A:H2'	38:8:66:A:O4'	2.17	0.44
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.47	0.44
39:l2:36:GLU:OE2	39:l2:163:ARG:NH1	2.50	0.44
39:l2:57:PRO:HG2	39:l2:78:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:142:ALA:O	40:l3:145:GLU:N	2.50	0.44
41:l4:67:THR:HG23	41:l4:68:GLY:N	2.31	0.44
41:l4:192:GLY:O	41:l4:194:TYR:N	2.50	0.44
41:l4:236:LEU:HD23	41:l4:236:LEU:HA	1.68	0.44
42:l5:99:TYR:HA	42:l5:161:GLY:O	2.17	0.44
42:l5:261:THR:O	42:l5:263:GLU:N	2.50	0.44
44:l7:222:HIS:CE1	44:l7:224:ILE:HG13	2.51	0.44
45:l8:111:LYS:HG2	45:l8:112:GLU:N	2.31	0.44
49:m3:151:ALA:O	49:m3:153:ASP:N	2.50	0.44
50:m4:85:TRP:C	50:m4:85:TRP:CD1	2.96	0.44
51:m5:183:THR:HA	51:m5:187:ARG:H	1.82	0.44
59:n3:81:GLN:NE2	59:n3:85:TRP:CE3	2.85	0.44
62:n6:88:GLU:HG3	62:n6:94:SER:OG	2.18	0.44
66:o0:42:ILE:CG1	66:o0:67:VAL:HG22	2.45	0.44
66:o0:57:GLU:O	66:o0:60:ALA:HB3	2.17	0.44
78:q2:47:GLN:OE1	78:q2:54:THR:OG1	2.32	0.44
82:m2:105:UNK:HA	82:m2:142:UNK:O	2.18	0.44
1:2:563:U:O2'	1:2:564:G:H5'	2.17	0.44
1:2:722:G:H3'	1:2:723:G:H5'	1.99	0.44
1:2:887:A:H61	1:2:925:G:H1	1.65	0.44
1:2:1160:A:OP2	18:C6:142:TYR:OH	2.28	0.44
1:2:1433:G:H2'	1:2:1434:U:H6	1.83	0.44
1:2:1434:U:H5''	1:2:1435:G:OP1	2.18	0.44
1:2:1636:C:C2	1:2:1638:G:C5	3.05	0.44
3:S1:140:ILE:HG22	3:S1:211:HIS:HB2	1.99	0.44
6:S4:26:CYS:HB2	6:S4:27:TYR:CE2	2.52	0.44
6:S4:173:ILE:HD11	6:S4:235:TYR:CE1	2.52	0.44
6:S4:193:GLY:O	6:S4:210:ILE:HG23	2.17	0.44
8:S6:136:LYS:HG3	8:S6:173:PRO:HB3	2.00	0.44
9:S7:39:ARG:HG3	9:S7:40:PRO:HD3	1.97	0.44
11:S9:10:LYS:HB2	11:S9:10:LYS:HE3	1.60	0.44
17:C5:28:MET:HE1	17:C5:87:PRO:HG2	2.00	0.44
18:C6:50:GLU:CD	18:C6:114:ARG:HH11	2.23	0.44
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.17	0.44
27:D5:41:ILE:HG23	27:D5:42:LEU:H	1.82	0.44
28:D6:60:PRO:C	28:D6:62:TYR:H	2.25	0.44
33:E1:98:VAL:HG13	33:E1:99:LYS:N	2.32	0.44
34:SR:122:ILE:HB	34:SR:134:TRP:HB2	1.99	0.44
36:1:36:C:OP2	51:M5:83:LYS:HE2	2.17	0.44
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.39	0.44
36:1:75:G:O3'	49:M3:70:ARG:NH1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1148:G:C6	36:1:1149:G:N7	2.86	0.44
36:1:1340:G:OP2	68:O2:61:LYS:HE3	2.17	0.44
36:1:1554:U:H4'	36:1:1555:U:C5'	2.48	0.44
36:1:1613:A:P	74:O8:46:ARG:HH22	2.41	0.44
36:1:2117:A:C8	36:1:3064:U:O2	2.71	0.44
36:1:2383:C:C2'	36:1:2384:A:H5'	2.48	0.44
42:L5:113:LEU:HD12	42:L5:113:LEU:HA	1.77	0.44
42:L5:211:LEU:HD22	42:L5:211:LEU:HA	1.75	0.44
43:L6:30:LEU:HD22	43:L6:30:LEU:HA	1.74	0.44
47:M0:21:ARG:NH2	47:M0:22:TYR:OH	2.50	0.44
47:M0:55:ASN:HA	47:M0:131:ILE:HG23	2.00	0.44
49:M3:97:VAL:HG12	49:M3:98:ASP:H	1.82	0.44
50:M4:21:VAL:HB	50:M4:63:VAL:HG13	2.00	0.44
53:M7:25:SER:CB	53:M7:28:ASN:HB2	2.47	0.44
54:M8:18:ALA:HB1	54:M8:19:PRO:HD2	2.00	0.44
55:M9:175:GLN:O	55:M9:179:GLU:N	2.50	0.44
56:N0:42:TRP:HA	56:N0:42:TRP:CE3	2.53	0.44
63:N7:15:ARG:HB2	63:N7:79:HIS:CD2	2.53	0.44
63:N7:87:LEU:HB2	63:N7:127:ASN:ND2	2.32	0.44
68:O2:12:LYS:HD3	68:O2:57:TYR:O	2.17	0.44
1:6:151:G:N2	8:s6:13:GLN:OE1	2.49	0.44
1:6:159:U:O2'	8:s6:87:ARG:NH1	2.51	0.44
1:6:544:A:H8	1:6:544:A:O5'	2.01	0.44
1:6:643:G:H1	1:6:691:C:N4	2.15	0.44
1:6:961:U:H2'	1:6:962:C:H6	1.80	0.44
1:6:1053:G:C2	1:6:1067:C:C2	3.05	0.44
1:6:1161:C:H2'	1:6:1162:C:C6	2.49	0.44
1:6:1350:U:H2'	1:6:1351:G:H8	1.83	0.44
1:6:1516:A:C8	22:d0:58:LEU:HD23	2.52	0.44
1:6:1743:U:H2'	1:6:1744:A:H8	1.82	0.44
86:6:2104:OHX:N1	86:6:2190:OHX:N4	2.66	0.44
9:s7:69:GLY:C	9:s7:71:HIS:H	2.26	0.44
11:s9:105:LEU:HD12	11:s9:105:LEU:HA	1.70	0.44
12:c0:44:LYS:HD2	12:c0:44:LYS:HA	1.65	0.44
14:c2:95:LYS:HE3	14:c2:95:LYS:HB2	1.89	0.44
19:c7:58:MET:HA	19:c7:61:ILE:HB	1.99	0.44
21:c9:33:TYR:HE1	21:c9:100:ILE:HD13	1.83	0.44
34:sR:274:LEU:HD13	34:sR:313:TRP:CD2	2.52	0.44
36:5:150:A:C2'	36:5:151:A:H5'	2.47	0.44
36:5:267:G:H4'	51:m5:50:ARG:HH11	1.81	0.44
36:5:330:G:OP2	86:5:4043:OHX:N1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:601:U:H2'	36:5:602:A:O4'	2.16	0.44
36:5:1106:G:C5	36:5:1107:C:C5	3.05	0.44
36:5:1618:G:H4'	38:8:129:C:H1'	1.98	0.44
36:5:1692:U:C4	36:5:1693:C:N4	2.86	0.44
36:5:1764:U:H5''	55:m9:43:LYS:HG3	1.98	0.44
36:5:2256:A:OP2	36:5:2256:A:H2'	2.18	0.44
36:5:2369:G:H2'	36:5:2370:G:C8	2.53	0.44
36:5:2378:C:C2	36:5:2379:U:C5	3.05	0.44
36:5:2549:G:C6	45:l8:33:ASN:O	2.70	0.44
36:5:2730:G:OP2	86:5:3952:OHX:N4	2.51	0.44
36:5:3107:U:P	76:q0:112:LYS:HZ3	2.41	0.44
38:8:132:G:C6	38:8:133:G:N7	2.86	0.44
40:l3:187:SER:C	40:l3:189:SER:N	2.75	0.44
41:l4:144:LYS:H	41:l4:144:LYS:CE	2.29	0.44
41:l4:327:LEU:CD1	44:l7:165:ASP:HA	2.47	0.44
42:l5:105:ILE:O	42:l5:109:THR:HG23	2.18	0.44
43:l6:109:GLU:CD	43:l6:109:GLU:H	2.25	0.44
44:l7:102:VAL:HG12	44:l7:130:ILE:HD12	1.99	0.44
44:l7:173:LEU:HB3	44:l7:178:ILE:HB	2.00	0.44
45:l8:122:LYS:C	45:l8:124:ASP:H	2.26	0.44
46:l9:13:PRO:HG2	46:l9:16:VAL:HG11	1.98	0.44
46:l9:43:VAL:CG2	46:l9:55:VAL:HG12	2.48	0.44
47:m0:138:VAL:HG11	47:m0:148:VAL:HG13	2.00	0.44
49:m3:84:GLY:O	49:m3:85:LEU:HB3	2.18	0.44
57:n1:128:LEU:HD12	57:n1:128:LEU:H	1.82	0.44
63:n7:47:GLU:OE2	63:n7:69:LYS:HE2	2.17	0.44
68:o2:11:LYS:O	68:o2:13:HIS:N	2.50	0.44
70:o4:3:GLN:HG2	70:o4:4:ARG:N	2.33	0.44
77:q1:2:ARG:HD2	77:q1:4:LYS:HB3	1.99	0.44
81:p0:48:ARG:HH11	81:p0:48:ARG:HA	1.82	0.44
1:2:552:G:C6	1:2:553:G:C6	3.05	0.44
1:2:804:A:N3	24:D2:105:THR:HG22	2.33	0.44
1:2:970:A:H5''	1:2:970:A:H8	1.83	0.44
1:2:1064:G:H2'	1:2:1065:A:C8	2.52	0.44
1:2:1156:C:C2'	1:2:1157:A:H5'	2.47	0.44
1:2:1395:G:N2	1:2:1404:C:O2	2.51	0.44
2:S0:70:PRO:O	2:S0:94:GLY:HA3	2.17	0.44
2:S0:167:LYS:HG2	2:S0:168:HIS:NE2	2.32	0.44
2:S0:179:ARG:HG3	2:S0:195:TRP:CE3	2.53	0.44
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.82	0.44
10:S8:29:LEU:HD23	10:S8:30:GLY:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C2:43:ARG:HH12	14:C2:102:GLY:HA3	1.82	0.44
16:C4:133:ARG:HB2	16:C4:136:ARG:HH21	1.82	0.44
19:C7:69:ILE:H	19:C7:69:ILE:HG12	1.52	0.44
19:C7:74:GLN:HA	19:C7:77:GLU:HB2	1.98	0.44
20:C8:117:LYS:C	20:C8:119:ILE:N	2.75	0.44
22:D0:28:SER:HB3	22:D0:34:LEU:HD23	2.00	0.44
22:D0:38:SER:O	22:D0:42:VAL:HG23	2.18	0.44
33:E1:135:HIS:ND1	33:E1:138:ARG:HD2	2.33	0.44
34:SR:269:TYR:H	34:SR:269:TYR:HD1	1.65	0.44
36:1:282:G:H3'	36:1:282:G:C8	2.53	0.44
36:1:597:G:C2	36:1:598:A:C8	3.06	0.44
36:1:1826:C:H2'	36:1:1827:C:H6	1.82	0.44
36:1:1842:A:H4'	36:1:1843:C:OP2	2.18	0.44
36:1:1864:A:OP1	55:M9:88:ARG:NH1	2.51	0.44
36:1:3049:A:C6	36:1:3050:U:C2	3.05	0.44
37:3:40:C:O2'	48:M1:72:ARG:HD2	2.17	0.44
38:4:118:C:C2	38:4:136:G:C2	3.05	0.44
38:4:124:G:N2	38:4:130:C:C2	2.86	0.44
39:L2:39:GLY:O	39:L2:91:GLY:HA3	2.18	0.44
41:L4:117:GLU:O	41:L4:118:LYS:C	2.61	0.44
43:L6:6:ALA:HA	68:O2:74:PHE:CE1	2.52	0.44
43:L6:67:GLY:HA3	43:L6:68:PRO:C	2.42	0.44
44:L7:105:LEU:HD23	44:L7:105:LEU:HA	1.66	0.44
47:M0:57:LEU:HA	47:M0:57:LEU:HD22	1.74	0.44
47:M0:185:ARG:HA	47:M0:190:VAL:HB	1.99	0.44
49:M3:109:PHE:O	49:M3:112:ASN:HB2	2.18	0.44
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.50	0.44
54:M8:161:LYS:O	54:M8:162:ALA:HB3	2.18	0.44
56:N0:8:GLN:OE1	56:N0:26:ARG:NE	2.41	0.44
63:N7:18:TYR:CE1	63:N7:71:PHE:CG	3.05	0.44
71:O5:102:GLU:OE2	71:O5:102:GLU:HA	2.16	0.44
71:O5:119:LYS:HA	71:O5:119:LYS:HD2	1.83	0.44
78:Q2:36:PHE:N	78:Q2:36:PHE:CD1	2.85	0.44
1:6:25:C:O2	86:6:2107:OHX:N5	2.50	0.44
1:6:398:G:H8	1:6:398:G:O5'	2.01	0.44
1:6:565:C:C2	86:6:2159:OHX:N4	2.86	0.44
1:6:586:G:C6	1:6:587:C:C4	3.06	0.44
1:6:1138:A:H2'	1:6:1139:A:H8	1.83	0.44
1:6:1163:A:N6	1:6:1164:G:C6	2.85	0.44
1:6:1545:A:O2'	1:6:1546:G:H5'	2.18	0.44
3:s1:119:THR:HB	3:s1:143:THR:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:133:LYS:O	4:s2:136:VAL:HG23	2.18	0.44
11:s9:64:GLU:HA	11:s9:69:ARG:HD3	1.99	0.44
18:c6:102:LYS:O	18:c6:106:LYS:N	2.33	0.44
22:d0:102:ARG:HG3	22:d0:103:ILE:N	2.32	0.44
25:d3:74:VAL:N	25:d3:83:VAL:O	2.38	0.44
27:d5:46:LYS:O	27:d5:50:ILE:HG13	2.17	0.44
34:sR:206:PRO:HG2	34:sR:247:PRO:HA	2.00	0.44
36:5:82:C:H2'	36:5:83:U:O4'	2.17	0.44
36:5:683:U:OP2	51:m5:204:LYS:HE3	2.17	0.44
36:5:701:G:H2'	36:5:702:C:C6	2.53	0.44
36:5:817:A:H2'	36:5:920:A:C2	2.53	0.44
36:5:1175:C:H5''	52:m6:25:LYS:HG3	1.99	0.44
36:5:1277:C:H2'	36:5:1278:A:C8	2.53	0.44
36:5:1389:G:N2	36:5:1390:A:N1	2.65	0.44
36:5:1405:U:OP2	68:o2:59:SER:OG	2.35	0.44
36:5:1517:G:P	75:o9:41:ARG:HH22	2.40	0.44
36:5:1731:A:C5	36:5:1732:U:C5	3.06	0.44
36:5:2299:A:OP2	86:5:3953:OHX:N1	2.49	0.44
36:5:2689:A:C4'	36:5:2690:G:H5'	2.44	0.44
36:5:2697:A:C2	36:5:2698:G:C5	3.05	0.44
36:5:2779:A:H8	36:5:2779:A:H5'	1.82	0.44
36:5:3195:U:H1'	36:5:3196:U:OP1	2.18	0.44
36:5:3385:U:H2'	36:5:3386:G:H8	1.83	0.44
38:8:85:G:N7	62:n6:113:LYS:HE2	2.32	0.44
39:l2:220:GLY:O	39:l2:221:LYS:HG3	2.17	0.44
40:l3:3:HIS:ND1	40:l3:3:HIS:C	2.75	0.44
44:l7:77:VAL:HG13	57:n1:139:ARG:O	2.17	0.44
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.99	0.44
46:l9:75:VAL:HG22	46:l9:78:MET:HE3	2.00	0.44
49:m3:124:ILE:HD11	49:m3:126:PHE:CZ	2.53	0.44
51:m5:68:ARG:HA	51:m5:98:LEU:HD21	2.00	0.44
54:m8:36:LEU:O	54:m8:40:THR:OG1	2.27	0.44
56:n0:102:ALA:C	56:n0:104:GLU:N	2.75	0.44
57:n1:157:GLU:HB3	57:n1:159:PHE:CE1	2.53	0.44
66:o0:29:SER:O	66:o0:33:SER:HB3	2.18	0.44
76:q0:108:THR:HB	76:q0:109:ASN:OD1	2.18	0.44
81:p0:61:ARG:O	81:p0:61:ARG:NH2	2.42	0.44
1:2:17:C:HO2'	1:2:1137:A:N6	2.16	0.44
1:2:73:U:O2'	1:2:74:U:C2	2.69	0.44
1:2:966:A:H5''	15:C3:4:MET:CE	2.48	0.44
1:2:1268:G:C2	1:2:1270:G:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1335:U:H1'	31:D9:56:ARG:HH11	1.82	0.44
1:2:1643:U:H5'	77:Q1:9:ARG:HH22	1.83	0.44
2:S0:200:ASP:HA	2:S0:203:PHE:CE2	2.53	0.44
3:S1:130:SER:HB3	3:S1:179:SER:HA	2.00	0.44
4:S2:72:LEU:HD13	4:S2:72:LEU:HA	1.72	0.44
4:S2:152:HIS:HA	4:S2:194:GLU:HG3	1.99	0.44
6:S4:242:LYS:HE3	6:S4:242:LYS:H	1.80	0.44
10:S8:26:LYS:O	10:S8:29:LEU:HB3	2.18	0.44
11:S9:45:ILE:HG22	11:S9:101:VAL:HG12	1.99	0.44
15:C3:12:SER:HB3	15:C3:13:SER:H	1.62	0.44
21:C9:136:ALA:O	21:C9:140:LEU:HD12	2.17	0.44
26:D4:57:VAL:HG22	26:D4:60:PHE:CE2	2.52	0.44
33:E1:137:ASP:HB2	33:E1:138:ARG:H	1.58	0.44
34:SR:147:HIS:HD2	34:SR:151:VAL:HG22	1.83	0.44
36:1:1080:A:OP2	42:L5:140:ARG:NH2	2.51	0.44
36:1:1348:U:O2	36:1:1349:G:N2	2.51	0.44
36:1:1544:G:O6	86:1:4052:OHX:N4	2.50	0.44
36:1:1661:G:N2	36:1:1789:G:H1'	2.32	0.44
36:1:1668:G:H2'	36:1:1669:C:O4'	2.16	0.44
36:1:2289:U:H2'	36:1:2290:C:H6	1.83	0.44
37:3:24:A:H2'	37:3:25:G:H5'	2.00	0.44
40:L3:346:THR:O	40:L3:347:SER:C	2.60	0.44
43:L6:165:LEU:HD23	43:L6:165:LEU:HA	1.75	0.44
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.18	0.44
46:L9:86:TYR:CZ	46:L9:151:VAL:HG13	2.52	0.44
48:M1:141:ARG:O	48:M1:145:LYS:HE2	2.18	0.44
55:M9:99:LEU:HD11	55:M9:103:ARG:NH1	2.33	0.44
55:M9:124:TYR:C	55:M9:126:GLU:H	2.25	0.44
57:N1:17:ARG:HG2	57:N1:22:HIS:HA	1.99	0.44
57:N1:102:ARG:O	57:N1:106:LEU:HD22	2.18	0.44
64:N8:2:PRO:O	64:N8:4:ARG:N	2.51	0.44
73:O7:52:LYS:O	73:O7:56:ARG:HG3	2.17	0.44
73:O7:69:HIS:O	73:O7:73:ARG:HG3	2.18	0.44
77:Q1:12:ARG:O	77:Q1:13:LEU:C	2.61	0.44
1:6:47:A:H4'	1:6:48:G:C5'	2.48	0.44
1:6:187:G:N2	1:6:198:A:H62	2.16	0.44
1:6:891:A:H2'	1:6:892:A:C8	2.51	0.44
1:6:1314:U:O2'	1:6:1315:U:OP2	2.35	0.44
1:6:1545:A:OP2	20:c8:134:ARG:HD2	2.18	0.44
1:6:1614:A:O2'	1:6:1615:C:H5'	2.18	0.44
1:6:1747:G:H2'	1:6:1748:G:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:57:PHE:CD2	4:s2:138:PRO:HB3	2.53	0.44
5:s3:212:LYS:HB2	5:s3:212:LYS:NZ	2.32	0.44
8:s6:6:SER:O	8:s6:8:PRO:HD3	2.18	0.44
8:s6:63:MET:HA	8:s6:98:ARG:O	2.18	0.44
11:s9:113:VAL:O	11:s9:118:LEU:HB2	2.18	0.44
12:c0:2:LEU:HB3	12:c0:3:MET:H	1.50	0.44
15:c3:114:ARG:HD3	15:c3:114:ARG:HA	1.81	0.44
17:c5:52:LYS:C	17:c5:54:ALA:N	2.75	0.44
17:c5:72:LYS:H	17:c5:72:LYS:HG2	1.41	0.44
17:c5:77:ARG:HA	17:c5:95:GLY:HA3	2.00	0.44
18:c6:50:GLU:CD	18:c6:112:TYR:HH	2.20	0.44
21:c9:16:ASN:HA	21:c9:56:LYS:HZ1	1.82	0.44
21:c9:105:LEU:HD13	21:c9:122:ARG:HD3	1.99	0.44
28:d6:4:LYS:HE2	28:d6:4:LYS:HB3	1.68	0.44
34:sR:121:MET:HE1	34:sR:167:VAL:HG11	2.00	0.44
34:sR:178:VAL:O	34:sR:192:PHE:HB2	2.18	0.44
34:sR:220:ILE:O	34:sR:234:LEU:N	2.48	0.44
34:sR:222:LEU:HD13	34:sR:222:LEU:HA	1.81	0.44
36:5:2734:A:OP1	86:5:4040:OHX:N6	2.50	0.44
36:5:3108:G:H2'	36:5:3109:G:O5'	2.17	0.44
36:5:3283:U:H2'	36:5:3284:G:C8	2.53	0.44
36:5:3320:A:C2	36:5:3321:C:C2	3.06	0.44
39:l2:29:LEU:H	39:l2:123:ARG:HB3	1.83	0.44
41:l4:219:LEU:O	41:l4:222:VAL:HG13	2.17	0.44
45:l8:207:ASP:O	45:l8:209:ALA:N	2.51	0.44
46:l9:51:GLN:N	46:l9:51:GLN:OE1	2.50	0.44
50:m4:99:TRP:HD1	50:m4:99:TRP:O	2.00	0.44
51:m5:53:TYR:O	51:m5:54:LYS:HD2	2.18	0.44
51:m5:150:TRP:O	51:m5:153:ASP:HB2	2.17	0.44
55:m9:92:GLN:O	55:m9:96:ILE:HG13	2.17	0.44
73:o7:37:CYS:O	73:o7:45:ARG:N	2.29	0.44
84:p2:16:UNK:C	84:p2:18:UNK:N	2.81	0.44
1:2:149:C:OP1	26:D4:121:THR:OG1	2.33	0.44
1:2:986:G:OP2	39:L2:251:LYS:NZ	2.35	0.44
1:2:1039:A:O2'	1:2:1040:G:OP2	2.35	0.44
1:2:1167:G:OP1	7:S5:101:GLY:HA3	2.18	0.44
1:2:1172:G:H21	21:C9:88:VAL:HG23	1.83	0.44
1:2:1211:A:N3	17:C5:97:TYR:OH	2.51	0.44
1:2:1311:U:C2	1:2:1315:U:C4	3.06	0.44
1:2:1459:C:N4	20:C8:139:LYS:HE2	2.32	0.44
1:2:1621:U:H2'	1:2:1622:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:70:PRO:O	2:S0:95:ALA:N	2.36	0.44
2:S0:102:PHE:O	2:S0:103:THR:HB	2.18	0.44
5:S3:52:ALA:O	5:S3:90:ARG:HA	2.17	0.44
6:S4:46:VAL:HG13	6:S4:50:ASN:OD1	2.17	0.44
6:S4:196:VAL:HG21	6:S4:211:LYS:HB3	1.98	0.44
7:S5:77:TYR:CE1	7:S5:87:CYS:HB2	2.53	0.44
17:C5:97:TYR:HD2	17:C5:102:PHE:CE1	2.36	0.44
34:SR:16:HIS:ND1	34:SR:37:SER:HB3	2.33	0.44
36:1:165:A:H2'	36:1:166:C:C6	2.53	0.44
36:1:968:G:C6	36:1:969:C:N4	2.86	0.44
36:1:1108:U:H2'	36:1:1109:U:H6	1.79	0.44
36:1:1322:U:P	56:N0:117:ARG:HH21	2.41	0.44
36:1:1480:G:H4'	36:1:1481:A:OP1	2.18	0.44
36:1:2215:A:H2'	36:1:2216:G:O4'	2.17	0.44
37:3:55:A:H2'	37:3:56:A:O4'	2.18	0.44
39:L2:68:LYS:HD3	39:L2:70:ARG:HG2	2.00	0.44
41:L4:265:GLU:OE2	41:L4:266:THR:HG23	2.17	0.44
45:L8:94:PHE:CE1	45:L8:200:LEU:HG	2.53	0.44
46:L9:189:GLU:HB3	46:L9:190:ASP:H	1.58	0.44
48:M1:110:ILE:HG22	48:M1:115:LYS:O	2.18	0.44
51:M5:44:ARG:NH1	51:M5:47:LYS:HG2	2.33	0.44
59:N3:13:ILE:HD11	59:N3:81:GLN:NE2	2.32	0.44
60:N4:57:LYS:HE3	60:N4:57:LYS:HB2	1.87	0.44
64:N8:64:GLN:O	64:N8:67:HIS:HB2	2.18	0.44
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.53	0.44
65:N9:42:ASN:O	65:N9:43:HIS:C	2.61	0.44
79:Q3:78:THR:HA	79:Q3:81:SER:OG	2.18	0.44
1:6:1:U:N3	1:6:369:A:C5	2.86	0.44
1:6:66:U:O2'	1:6:67:A:H5''	2.16	0.44
1:6:215:A:C6	1:6:216:U:C4	3.05	0.44
1:6:611:U:OP1	25:d3:19:ARG:NH2	2.51	0.44
1:6:813:U:H3'	1:6:814:A:H4'	2.00	0.44
1:6:955:A:H2'	1:6:956:C:O4'	2.18	0.44
1:6:1349:G:O2'	1:6:1379:C:N3	2.34	0.44
1:6:1584:G:H5''	18:c6:122:ARG:HB3	1.99	0.44
2:s0:8:ASP:HB3	2:s0:9:LEU:H	1.66	0.44
4:s2:126:ARG:HB3	4:s2:126:ARG:NH1	2.33	0.44
5:s3:21:LEU:HD23	5:s3:21:LEU:HA	1.75	0.44
5:s3:103:GLU:HG3	5:s3:107:PHE:CZ	2.53	0.44
16:c4:16:VAL:HG23	16:c4:31:THR:HG23	1.99	0.44
17:c5:15:HIS:CG	17:c5:16:SER:N	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:11:GLY:N	18:c6:18:ALA:O	2.51	0.44
21:c9:61:VAL:HG21	21:c9:104:VAL:HG11	2.00	0.44
23:d1:71:ARG:HG3	23:d1:83:TRP:CE2	2.52	0.44
23:d1:74:GLN:HG2	23:d1:79:LEU:HB3	2.00	0.44
80:e0:46:ASN:HD21	80:e0:48:THR:HG22	1.83	0.44
36:5:414:U:H2'	36:5:415:G:H8	1.82	0.44
36:5:747:A:H2'	36:5:748:U:O4'	2.18	0.44
36:5:951:A:OP2	36:5:1367:G:N2	2.42	0.44
36:5:999:G:H2'	36:5:1000:C:C6	2.53	0.44
36:5:1027:A:N7	36:5:1029:G:C2	2.86	0.44
36:5:1256:G:H2'	36:5:1257:C:O4'	2.17	0.44
36:5:1302:A:N1	36:5:2832:C:O2'	2.42	0.44
36:5:1654:A:O2'	70:o4:59:PRO:HD3	2.18	0.44
36:5:1926:C:H5'	36:5:1927:G:C5	2.53	0.44
36:5:2138:A:C5	73:o7:3:LYS:HB3	2.52	0.44
36:5:2197:C:H4'	36:5:2198:A:H8	1.82	0.44
36:5:2359:C:O5'	36:5:2359:C:H6	2.00	0.44
36:5:2413:A:H2'	36:5:2414:G:C8	2.53	0.44
36:5:2530:G:H2'	36:5:2531:C:H5''	2.00	0.44
36:5:2552:C:H2'	66:o0:50:VAL:HG11	2.00	0.44
36:5:2942:C:O2	86:5:4048:OHX:N6	2.51	0.44
36:5:3047:U:O2'	36:5:3048:A:H5'	2.18	0.44
36:5:3377:G:O6	86:5:4082:OHX:N1	2.50	0.44
41:l4:205:PRO:HB3	41:l4:247:PHE:CD2	2.53	0.44
41:l4:361:HIS:CE1	41:l4:362:ASP:HB2	2.53	0.44
42:l5:220:SER:O	42:l5:220:SER:OG	2.35	0.44
44:l7:180:SER:HB3	44:l7:183:ASP:CG	2.42	0.44
45:l8:33:ASN:O	45:l8:35:GLY:N	2.51	0.44
45:l8:34:PHE:H	45:l8:39:ALA:CB	2.31	0.44
45:l8:143:ILE:HD13	45:l8:170:CYS:SG	2.58	0.44
46:l9:89:LYS:NZ	46:l9:191:LEU:HD12	2.33	0.44
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.53	0.44
47:m0:36:LEU:HD12	47:m0:87:LEU:HB3	2.00	0.44
49:m3:25:HIS:HD2	51:m5:199:LEU:O	2.00	0.44
49:m3:67:ARG:HH22	64:n8:108:GLY:HA2	1.83	0.44
52:m6:27:LEU:HD11	52:m6:102:LEU:CB	2.46	0.44
54:m8:109:GLY:O	54:m8:112:ALA:HB3	2.18	0.44
62:n6:95:VAL:HA	62:n6:96:PRO:HD3	1.61	0.44
81:p0:93:LEU:HD22	81:p0:94:THR:HG23	2.00	0.44
1:2:176:C:N4	1:2:266:A:OP2	2.51	0.44
1:2:320:U:H3'	1:2:321:C:C5'	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:407:A:O2'	1:2:1671:A:N3	2.44	0.44
1:2:548:G:H2'	1:2:549:G:O4'	2.18	0.44
1:2:565:C:OP2	1:2:577:G:O2'	2.26	0.44
1:2:577:G:H3'	1:2:577:G:C8	2.53	0.44
1:2:704:C:H4'	1:2:705:U:OP1	2.16	0.44
1:2:1002:G:N1	1:2:1761:U:OP1	2.39	0.44
1:2:1199:G:P	31:D9:40:ARG:HH21	2.41	0.44
1:2:1215:C:H2'	1:2:1216:C:C6	2.53	0.44
1:2:1387:G:O2'	1:2:1410:A:N6	2.50	0.44
3:S1:36:SER:HB2	3:S1:231:LEU:O	2.18	0.44
5:S3:207:THR:O	19:C7:40:THR:OG1	2.36	0.44
6:S4:133:LYS:O	6:S4:134:LYS:HB2	2.18	0.44
6:S4:182:TYR:HB2	6:S4:228:ILE:HD11	1.99	0.44
9:S7:15:GLU:HB2	9:S7:16:LEU:H	1.63	0.44
10:S8:193:LEU:HD23	10:S8:193:LEU:HA	1.84	0.44
12:C0:72:GLY:O	12:C0:75:TYR:N	2.51	0.44
13:C1:29:LYS:NZ	13:C1:32:LYS:HA	2.33	0.44
18:C6:19:VAL:O	18:C6:67:VAL:HA	2.18	0.44
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.99	0.44
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.52	0.44
26:D4:123:LYS:HZ2	26:D4:123:LYS:N	2.16	0.44
28:D6:28:LYS:HG2	28:D6:29:SER:O	2.18	0.44
34:SR:22:SER:CB	34:SR:70:ASP:HA	2.47	0.44
34:SR:158:PRO:O	34:SR:208:GLY:HA3	2.18	0.44
36:1:651:G:C6	36:1:652:G:C6	3.06	0.44
36:1:863:C:H2'	36:1:864:G:O4'	2.17	0.44
36:1:1497:C:O2'	36:1:1602:A:N3	2.46	0.44
36:1:1534:A:H2'	36:1:1535:A:C8	2.52	0.44
36:1:1664:G:C4	36:1:1786:G:N2	2.86	0.44
36:1:3047:U:O2'	36:1:3048:A:H5'	2.17	0.44
36:1:3182:G:N2	36:1:3189:G:OP1	2.51	0.44
86:1:3965:OHX:N5	86:1:4153:OHX:N1	2.66	0.44
86:1:4128:OHX:N5	86:1:4161:OHX:N6	2.66	0.44
38:4:31:G:O2'	38:4:32:C:H5'	2.18	0.44
38:4:52:A:C5	38:4:53:A:C8	3.05	0.44
38:4:140:G:H2'	38:4:141:C:O4'	2.18	0.44
44:L7:66:LYS:HG3	44:L7:76:TYR:HD2	1.82	0.44
50:M4:8:LYS:HB3	50:M4:9:ALA:H	1.32	0.44
51:M5:67:ARG:O	51:M5:98:LEU:HD11	2.18	0.44
52:M6:119:VAL:O	52:M6:121:PRO:HD3	2.18	0.44
52:M6:124:LEU:HA	52:M6:124:LEU:HD12	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:124:LEU:HD23	56:N0:168:PRO:HG3	2.00	0.44
52:M6:138:LEU:O	52:M6:141:LEU:N	2.51	0.44
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	2.00	0.44
56:N0:34:GLU:O	56:N0:38:LYS:HG3	2.18	0.44
59:N3:40:LYS:CE	59:N3:59:MET:HE2	2.47	0.44
61:N5:100:LYS:HE3	61:N5:106:ASP:OD2	2.18	0.44
63:N7:70:PRO:HG3	63:N7:115:LYS:HB2	1.99	0.44
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	2.00	0.44
68:O2:9:ILE:HG12	68:O2:63:THR:HB	1.99	0.44
72:O6:94:ILE:CG2	72:O6:99:ARG:HE	2.31	0.44
1:6:63:G:C5	1:6:64:U:C5	3.06	0.44
1:6:294:C:C2	1:6:295:A:C8	3.06	0.44
1:6:760:A:OP2	86:6:2083:OHX:N5	2.50	0.44
2:s0:9:LEU:HD13	2:s0:10:THR:C	2.43	0.44
4:s2:65:GLU:HB2	4:s2:68:ILE:HG13	2.00	0.44
6:s4:6:LYS:HB2	6:s4:6:LYS:HE2	1.73	0.44
8:s6:14:LYS:HD3	8:s6:16:PHE:CZ	2.53	0.44
8:s6:162:VAL:HG21	8:s6:171:LYS:HG3	1.98	0.44
9:s7:17:GLU:HG3	9:s7:46:ILE:HG13	2.00	0.44
9:s7:148:LYS:O	9:s7:149:ILE:HG13	2.17	0.44
14:c2:124:LYS:C	35:sM:169:ALA:HB2	2.43	0.44
16:c4:123:SER:O	16:c4:124:ASP:HB2	2.17	0.44
17:c5:111:MET:HG2	20:c8:119:ILE:CG1	2.47	0.44
17:c5:127:ARG:N	35:sM:71:ASN:HD21	2.15	0.44
19:c7:18:GLU:HG2	19:c7:70:SER:O	2.17	0.44
19:c7:24:LEU:HD21	19:c7:34:LEU:HD12	2.00	0.44
36:5:76:G:O2'	49:m3:100:ARG:NH1	2.49	0.44
36:5:137:G:C2	36:5:138:U:N3	2.86	0.44
36:5:186:U:OP2	86:5:3903:OHX:N4	2.51	0.44
36:5:314:U:H2'	36:5:315:C:H6	1.76	0.44
36:5:659:G:H2'	36:5:660:A:N7	2.32	0.44
36:5:776:U:C5	36:5:2719:U:O2	2.71	0.44
36:5:807:A:H61	36:5:934:G:H22	1.66	0.44
36:5:1095:U:O2	57:n1:127:GLN:HA	2.18	0.44
36:5:1833:G:H5''	75:o9:10:LYS:HD3	2.00	0.44
36:5:2314:U:O4	86:5:3971:OHX:N5	2.51	0.44
36:5:2623:G:H2'	36:5:2624:G:C8	2.53	0.44
36:5:2623:G:H2'	36:5:2624:G:O4'	2.18	0.44
36:5:3053:G:C5	36:5:3054:U:C4	3.05	0.44
38:8:83:C:C4'	38:8:85:G:H21	2.30	0.44
38:8:88:A:H3'	38:8:89:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:50:VAL:HG21	47:m0:148:VAL:HG11	2.00	0.44
48:m1:92:ARG:NH2	48:m1:94:ARG:HH11	2.15	0.44
48:m1:96:PHE:HB2	48:m1:156:LYS:HE2	2.00	0.44
49:m3:9:ILE:HD12	64:n8:52:TYR:CE1	2.53	0.44
52:m6:27:LEU:HD13	52:m6:98:ALA:O	2.18	0.44
52:m6:38:ALA:O	52:m6:41:LEU:HB2	2.18	0.44
53:m7:25:SER:OG	53:m7:28:ASN:HB2	2.18	0.44
53:m7:31:GLU:HG3	53:m7:60:PHE:HA	1.99	0.44
55:m9:7:GLN:N	55:m9:7:GLN:OE1	2.51	0.44
56:n0:5:LYS:HB2	56:n0:7:TYR:CE2	2.53	0.44
60:n4:58:HIS:O	60:n4:60:LYS:N	2.50	0.44
66:o0:30:THR:HG22	66:o0:91:SER:CB	2.42	0.44
67:o1:55:LEU:O	67:o1:58:ALA:HB3	2.18	0.44
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.18	0.43
1:2:476:U:C5	32:E0:31:LYS:HB2	2.52	0.43
1:2:577:G:C5	35:SM:99:LYS:HD3	2.52	0.43
1:2:766:U:H3'	1:2:768:C:OP2	2.18	0.43
1:2:888:U:H1'	16:C4:126:THR:HG21	2.00	0.43
1:2:1163:A:C6	1:2:1164:G:C5	3.06	0.43
1:2:1172:G:C6	1:2:1173:C:C4	3.06	0.43
1:2:1776:A:C2	1:2:1786:G:C6	3.06	0.43
6:S4:95:THR:O	6:S4:96:ASN:C	2.60	0.43
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	1.99	0.43
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.99	0.43
8:S6:85:ARG:HA	8:S6:86:PRO:HD3	1.72	0.43
15:C3:102:LEU:C	15:C3:104:ARG:H	2.26	0.43
18:C6:94:GLN:OE1	34:SR:62:LYS:NZ	2.51	0.43
20:C8:113:LEU:HA	20:C8:113:LEU:HD23	1.41	0.43
21:C9:33:TYR:C	21:C9:33:TYR:HD1	2.26	0.43
21:C9:93:HIS:O	21:C9:94:ILE:HD12	2.17	0.43
25:D3:51:GLY:HA3	25:D3:74:VAL:CG1	2.48	0.43
28:D6:87:ARG:HB3	28:D6:91:ASP:HB2	1.99	0.43
29:D7:50:ALA:O	29:D7:51:GLN:HB2	2.17	0.43
34:SR:26:SER:OG	34:SR:75:ALA:O	2.34	0.43
36:1:284:A:OP2	78:Q2:41:ARG:HD2	2.18	0.43
36:1:364:G:OP1	41:L4:60:THR:HG22	2.17	0.43
36:1:670:C:OP2	54:M8:147:ARG:NH2	2.51	0.43
36:1:936:A:OP2	64:N8:27:LYS:HE2	2.18	0.43
36:1:1456:A:N6	67:O1:64:VAL:HG22	2.33	0.43
36:1:1511:U:H3'	36:1:1512:U:H6	1.83	0.43
36:1:1685:C:C2	36:1:3070:A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1895:A:HO2'	36:1:3053:G:H4'	1.82	0.43
36:1:2191:U:H2'	36:1:2192:C:O4'	2.17	0.43
36:1:2213:A:H2'	36:1:2214:A:C8	2.52	0.43
36:1:2883:U:H2'	36:1:2884:C:C6	2.53	0.43
36:1:3060:C:H1'	36:1:3332:U:H1'	1.99	0.43
40:L3:53:MET:CG	40:L3:77:THR:HG22	2.45	0.43
40:L3:291:GLU:OE1	40:L3:292:ALA:N	2.51	0.43
40:L3:361:THR:CG2	40:L3:371:GLN:HB3	2.47	0.43
42:L5:51:LEU:O	42:L5:147:ASP:N	2.42	0.43
44:L7:173:LEU:HD12	44:L7:173:LEU:HA	1.47	0.43
45:L8:166:LEU:HD23	45:L8:166:LEU:HA	1.83	0.43
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.17	0.43
57:N1:77:ASN:HB3	57:N1:84:TYR:CD2	2.52	0.43
59:N3:69:LEU:HD12	59:N3:69:LEU:HA	1.80	0.43
60:N4:62:GLY:C	60:N4:64:THR:H	2.26	0.43
61:N5:46:TYR:CD2	71:O5:75:TYR:HB3	2.53	0.43
62:N6:60:ARG:HA	62:N6:60:ARG:HD3	1.71	0.43
62:N6:125:LYS:HG3	62:N6:126:LEU:H	1.83	0.43
64:N8:56:VAL:HG23	64:N8:57:GLY:N	2.32	0.43
66:O0:98:SER:OG	66:O0:99:ASP:N	2.50	0.43
74:O8:77:ARG:O	74:O8:78:LEU:HB2	2.17	0.43
79:Q3:24:ARG:O	79:Q3:27:LYS:HB3	2.18	0.43
1:6:381:C:OP1	11:s9:2:PRO:HB3	2.18	0.43
1:6:1001:A:H2'	1:6:1002:G:C8	2.53	0.43
1:6:1110:G:N2	1:6:1136:U:H1'	2.33	0.43
1:6:1467:C:O2'	21:c9:88:VAL:O	2.34	0.43
1:6:1727:G:H2'	1:6:1728:A:C8	2.53	0.43
5:s3:109:LEU:HA	5:s3:109:LEU:HD23	1.79	0.43
5:s3:176:LEU:H	5:s3:176:LEU:HD12	1.81	0.43
6:s4:88:ASP:HB2	6:s4:101:LEU:HD12	2.00	0.43
7:s5:123:VAL:HG13	27:d5:102:THR:HG23	2.00	0.43
16:c4:40:ALA:HB2	16:c4:70:LYS:HG3	1.99	0.43
17:c5:69:GLU:OE1	17:c5:70:ASN:N	2.45	0.43
18:c6:20:ALA:HB2	18:c6:84:ALA:HB1	2.00	0.43
18:c6:47:LYS:HZ1	18:c6:114:ARG:HD3	1.83	0.43
21:c9:112:GLY:O	21:c9:125:SER:OG	2.22	0.43
28:d6:62:TYR:O	28:d6:63:ALA:HB2	2.18	0.43
36:5:44:U:OP1	51:m5:84:PRO:HB2	2.18	0.43
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.51	0.43
36:5:199:A:C4	36:5:201:A:C8	3.06	0.43
36:5:201:A:OP2	86:5:3980:OHX:N1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:305:U:C5	36:5:2776:C:H1'	2.52	0.43
36:5:423:A:H2'	36:5:424:G:O4'	2.18	0.43
36:5:572:A:C5	36:5:573:C:C5	3.05	0.43
36:5:687:U:H2'	36:5:688:G:C8	2.52	0.43
36:5:912:G:H8	36:5:912:G:O5'	2.01	0.43
36:5:993:G:C5	36:5:2637:A:C2	3.06	0.43
36:5:1138:U:H2'	36:5:1139:G:O4'	2.18	0.43
36:5:1313:G:OP1	52:m6:82:LYS:HD3	2.18	0.43
36:5:1440:G:C4	36:5:1441:G:C8	3.06	0.43
36:5:2171:G:C2	36:5:2172:A:N7	2.86	0.43
36:5:2248:C:H2'	36:5:2273:G:C8	2.53	0.43
36:5:2764:C:O5'	36:5:2764:C:H6	2.01	0.43
86:5:3971:OHX:N4	86:5:4193:OHX:N1	2.66	0.43
38:8:154:C:H5''	45:l8:181:LYS:HG2	1.98	0.43
39:l2:70:ARG:NE	39:l2:72:ARG:HE	2.16	0.43
40:l3:29:VAL:HG11	40:l3:32:PHE:CE1	2.53	0.43
40:l3:383:LEU:HD23	40:l3:383:LEU:HA	1.76	0.43
41:l4:51:ALA:CB	41:l4:105:THR:HG22	2.48	0.43
41:l4:165:ALA:O	41:l4:168:ALA:HB3	2.18	0.43
41:l4:276:LEU:HD12	41:l4:276:LEU:H	1.83	0.43
46:l9:151:VAL:O	46:l9:152:GLU:C	2.61	0.43
48:m1:104:PHE:O	48:m1:127:PHE:HB2	2.18	0.43
49:m3:61:PRO:C	49:m3:62:THR:HG23	2.42	0.43
49:m3:89:TYR:O	49:m3:92:THR:HG23	2.18	0.43
56:n0:87:THR:O	56:n0:88:HIS:ND1	2.51	0.43
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	2.00	0.43
63:n7:27:LYS:HD2	63:n7:27:LYS:HA	1.74	0.43
65:n9:7:HIS:ND1	65:n9:7:HIS:C	2.74	0.43
66:o0:13:LYS:NZ	66:o0:99:ASP:OD2	2.27	0.43
67:o1:71:LEU:HD22	67:o1:71:LEU:HA	1.88	0.43
68:o2:16:LYS:O	68:o2:17:PHE:HB2	2.18	0.43
69:o3:89:LEU:HA	69:o3:90:PRO:HD3	1.63	0.43
70:o4:82:ALA:O	70:o4:85:VAL:HG22	2.18	0.43
71:o5:31:LEU:HD21	71:o5:43:LYS:HG2	2.00	0.43
1:2:30:G:H2'	1:2:31:C:C6	2.52	0.43
1:2:187:G:H3'	10:S8:138:ASN:ND2	2.33	0.43
1:2:239:C:H6	1:2:239:C:H2'	1.69	0.43
1:2:393:C:H2'	1:2:394:C:H6	1.83	0.43
1:2:1106:U:H2'	1:2:1107:G:H8	1.82	0.43
1:2:1367:G:N7	86:2:2108:OHX:N6	2.66	0.43
1:2:1489:U:C5	1:2:1513:G:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:179:ARG:HD3	2:S0:183:ARG:HD2	2.00	0.43
4:S2:152:HIS:HB2	4:S2:194:GLU:HB2	2.00	0.43
5:S3:79:TYR:HB3	5:S3:83:THR:OG1	2.18	0.43
5:S3:109:LEU:HA	5:S3:109:LEU:HD23	1.56	0.43
5:S3:127:MET:HE1	5:S3:133:GLY:N	2.33	0.43
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.32	0.43
10:S8:43:ILE:O	10:S8:44:HIS:CD2	2.71	0.43
13:C1:37:ASN:HA	13:C1:44:THR:CG2	2.48	0.43
13:C1:91:LEU:HD22	13:C1:92:HIS:H	1.82	0.43
22:D0:33:GLN:N	22:D0:33:GLN:OE1	2.51	0.43
25:D3:92:CYS:C	25:D3:94:ASN:N	2.75	0.43
25:D3:114:LYS:HB3	25:D3:115:GLY:H	1.57	0.43
26:D4:67:GLY:O	26:D4:68:LYS:HB2	2.19	0.43
26:D4:84:LYS:HG3	26:D4:85:PHE:N	2.33	0.43
28:D6:12:LYS:HE2	28:D6:16:GLY:O	2.18	0.43
34:SR:67:ILE:HB	34:SR:85:TRP:CG	2.53	0.43
34:SR:217:ASP:OD1	34:SR:217:ASP:N	2.51	0.43
36:1:608:A:N6	43:L6:22:ARG:HD3	2.33	0.43
36:1:945:C:OP1	68:O2:33:ARG:HG3	2.18	0.43
36:1:1047:A:N3	36:1:2633:U:O2'	2.49	0.43
36:1:1668:G:C2	36:1:1669:C:C2	3.06	0.43
36:1:2144:A:H1'	36:1:2281:A:N6	2.33	0.43
36:1:2173:U:H2'	36:1:2174:G:C8	2.53	0.43
36:1:2278:C:H2'	36:1:2279:A:H5''	1.99	0.43
36:1:2353:G:C6	36:1:2354:C:C4	3.06	0.43
36:1:2743:A:C6	36:1:2744:U:C4	3.06	0.43
36:1:2911:A:H4'	36:1:2912:G:C8	2.52	0.43
36:1:3045:G:H2'	36:1:3046:A:O4'	2.19	0.43
36:1:3121:U:C4	36:1:3124:G:O6	2.71	0.43
38:4:17:A:H5''	38:4:18:U:OP2	2.18	0.43
39:L2:19:HIS:CE1	39:L2:193:ARG:HA	2.53	0.43
39:L2:96:LEU:HG	39:L2:166:ILE:HD13	2.00	0.43
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.51	0.43
47:M0:182:LEU:O	47:M0:186:GLU:N	2.40	0.43
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.17	0.43
51:M5:92:LEU:C	51:M5:93:LYS:HG2	2.42	0.43
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.82	0.43
52:M6:84:LEU:O	52:M6:87:MET:N	2.34	0.43
58:N2:93:ILE:HA	58:N2:106:ALA:O	2.17	0.43
72:O6:34:SER:OG	72:O6:37:THR:OG1	2.21	0.43
75:O9:41:ARG:HG3	75:O9:42:ARG:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:40:A:H2'	1:6:41:A:O4'	2.17	0.43
1:6:63:G:C6	1:6:64:U:C5	3.05	0.43
1:6:430:G:N2	1:6:431:C:C2	2.86	0.43
1:6:724:C:H2'	1:6:725:U:C6	2.54	0.43
1:6:1244:A:H3'	1:6:1244:A:N3	2.33	0.43
1:6:1298:U:H2'	1:6:1299:G:O4'	2.17	0.43
1:6:1502:G:N7	21:c9:102:ARG:NH2	2.59	0.43
1:6:1584:G:O6	18:c6:13:LYS:NZ	2.39	0.43
5:s3:141:LYS:H	5:s3:141:LYS:HG2	1.49	0.43
8:s6:126:ASP:CG	8:s6:127:THR:N	2.76	0.43
9:s7:82:GLU:OE1	9:s7:164:TYR:OH	2.33	0.43
11:s9:49:LEU:O	11:s9:52:ILE:N	2.52	0.43
11:s9:182:GLU:H	11:s9:182:GLU:HG3	1.52	0.43
15:c3:55:ARG:HD2	15:c3:56:ASP:OD1	2.18	0.43
15:c3:72:MET:HE2	15:c3:72:MET:HB3	1.60	0.43
16:c4:42:VAL:HG21	16:c4:66:ASP:HB2	2.00	0.43
24:d2:50:PHE:HB3	24:d2:63:VAL:HA	2.00	0.43
33:e1:90:LYS:H	33:e1:90:LYS:HG3	1.54	0.43
34:sR:174:ASN:OD1	34:sR:198:ASN:HB3	2.18	0.43
36:5:138:U:H2'	36:5:139:G:C8	2.52	0.43
36:5:277:G:H2'	36:5:278:U:H6	1.82	0.43
36:5:701:G:C5	36:5:702:C:C4	3.06	0.43
36:5:1552:G:O2'	36:5:1553:U:H5'	2.18	0.43
36:5:1809:A:H2'	36:5:1810:A:O4'	2.18	0.43
36:5:2321:A:C6	36:5:2322:C:N3	2.85	0.43
38:8:39:G:H1'	38:8:105:A:N1	2.33	0.43
39:l2:238:ILE:HB	39:l2:239:ALA:H	1.61	0.43
40:l3:199:PHE:O	40:l3:201:LYS:N	2.51	0.43
40:l3:266:ARG:HE	40:l3:266:ARG:HB3	1.25	0.43
42:l5:202:GLY:O	42:l5:206:GLN:HG3	2.17	0.43
43:l6:169:ASP:OD1	43:l6:169:ASP:N	2.50	0.43
45:l8:55:TYR:CE2	45:l8:56:VAL:HG23	2.53	0.43
45:l8:238:LEU:HB3	45:l8:242:ALA:HB3	2.00	0.43
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.48	0.43
50:m4:127:LYS:O	50:m4:131:VAL:HG23	2.17	0.43
53:m7:103:GLU:C	53:m7:105:LYS:H	2.25	0.43
53:m7:103:GLU:C	53:m7:105:LYS:N	2.76	0.43
54:m8:62:VAL:HG11	54:m8:83:VAL:HG21	1.99	0.43
62:n6:36:SER:HB2	62:n6:37:LYS:HE2	2.00	0.43
72:o6:9:ILE:HD13	72:o6:10:GLY:N	2.34	0.43
1:2:344:A:C6	1:2:345:U:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:811:A:H1'	1:2:858:G:H21	1.84	0.43
1:2:912:U:H5'	1:2:913:G:H8	1.82	0.43
1:2:1128:C:H2'	1:2:1129:U:O4'	2.19	0.43
1:2:1253:U:O2'	33:E1:143:LYS:HA	2.18	0.43
1:2:1417:A:H2'	1:2:1418:G:O4'	2.18	0.43
1:2:1450:U:OP1	86:2:2061:OHX:N5	2.50	0.43
1:2:1498:G:C2	1:2:1510:U:O2	2.72	0.43
2:S0:31:VAL:HG23	2:S0:150:ASP:HA	2.00	0.43
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.19	0.43
6:S4:152:PRO:C	6:S4:154:ILE:H	2.26	0.43
6:S4:209:HIS:HA	6:S4:219:VAL:HG22	2.00	0.43
9:S7:47:ARG:H	9:S7:59:ALA:HB3	1.82	0.43
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.52	0.43
9:S7:71:HIS:CG	9:S7:131:PHE:CZ	3.07	0.43
10:S8:178:ARG:HD3	10:S8:178:ARG:HA	1.77	0.43
10:S8:184:LEU:HA	10:S8:184:LEU:HD12	1.65	0.43
12:C0:29:GLN:HE21	12:C0:29:GLN:HB3	1.60	0.43
13:C1:57:LYS:HB2	13:C1:110:HIS:NE2	2.32	0.43
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.51	0.43
20:C8:26:ILE:O	20:C8:27:LYS:C	2.61	0.43
22:D0:21:LYS:HB2	22:D0:21:LYS:HE2	1.62	0.43
25:D3:139:LYS:O	25:D3:140:LYS:HG3	2.18	0.43
27:D5:52:LYS:HD3	27:D5:52:LYS:HA	1.84	0.43
27:D5:90:LYS:HD2	27:D5:104:ALA:HA	2.00	0.43
28:D6:26:CYS:CB	28:D6:77:CYS:SG	3.06	0.43
33:E1:126:CYS:HB3	33:E1:130:VAL:HG11	1.99	0.43
36:1:428:A:H2'	36:1:429:U:C6	2.52	0.43
36:1:603:A:C5	36:1:604:G:H1'	2.53	0.43
36:1:913:A:H2	36:1:2134:G:N3	2.16	0.43
36:1:993:G:N3	36:1:2637:A:H2'	2.34	0.43
36:1:1389:G:OP1	68:O2:101:SER:HB3	2.17	0.43
36:1:1578:C:H3'	36:1:1579:C:H6	1.82	0.43
36:1:1944:U:H2'	36:1:1945:A:H8	1.84	0.43
36:1:2203:U:H4'	39:L2:241:ARG:HB3	1.99	0.43
36:1:2352:A:N6	36:1:2353:G:C6	2.87	0.43
36:1:3297:U:C4	36:1:3298:C:C5	3.06	0.43
38:4:85:G:H3'	38:4:85:G:H8	1.83	0.43
40:L3:299:ASP:O	40:L3:300:ARG:HB2	2.19	0.43
41:L4:300:ARG:HB2	41:L4:300:ARG:NH1	2.31	0.43
44:L7:195:PHE:CD1	44:L7:195:PHE:C	2.96	0.43
45:L8:73:PRO:HB2	45:L8:230:LYS:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.18	0.43
46:L9:74:LEU:HD23	46:L9:74:LEU:HA	1.63	0.43
47:M0:168:SER:HA	57:N1:160:ILE:HG23	2.00	0.43
48:M1:23:VAL:CG1	48:M1:29:ARG:HD3	2.48	0.43
49:M3:87:ALA:O	49:M3:88:ALA:C	2.62	0.43
50:M4:65:LEU:HB2	56:N0:172:TYR:CZ	2.53	0.43
54:M8:53:PHE:N	54:M8:53:PHE:CD1	2.85	0.43
54:M8:159:LYS:HE2	54:M8:159:LYS:HB3	1.82	0.43
54:M8:178:ARG:HD3	54:M8:178:ARG:HA	1.81	0.43
55:M9:27:ASN:O	86:M9:202:OHX:N6	2.51	0.43
55:M9:115:ILE:HG13	55:M9:119:LEU:HD23	1.99	0.43
55:M9:133:LYS:HD3	55:M9:134:HIS:CD2	2.53	0.43
56:N0:71:LYS:HD2	56:N0:73:LYS:HG3	2.01	0.43
58:N2:59:ASP:C	58:N2:61:THR:N	2.76	0.43
58:N2:85:LYS:HD2	58:N2:85:LYS:HA	1.70	0.43
68:O2:4:LEU:H	68:O2:90:LYS:HB3	1.83	0.43
72:O6:62:ARG:HH12	72:O6:98:ARG:HD2	1.83	0.43
78:Q2:71:ARG:HE	78:Q2:80:ARG:NH2	2.15	0.43
1:6:198:A:H2'	1:6:199:G:H5'	2.00	0.43
1:6:1009:U:H2'	1:6:1010:C:C6	2.54	0.43
1:6:1202:A:OP1	86:6:2130:OHX:N2	2.50	0.43
1:6:1688:U:H2'	1:6:1689:A:C8	2.53	0.43
86:6:2125:OHX:N3	13:c1:19:ILE:HD13	2.34	0.43
2:s0:105:GLY:H	2:s0:135:GLU:CD	2.24	0.43
4:s2:40:LYS:HG3	4:s2:247:ALA:O	2.19	0.43
6:s4:26:CYS:HB2	6:s4:27:TYR:CE2	2.53	0.43
9:s7:126:LEU:HD13	9:s7:173:TYR:CE2	2.54	0.43
14:c2:42:ALA:HB3	14:c2:122:VAL:HB	2.01	0.43
15:c3:81:ALA:HA	15:c3:82:PRO:HD2	1.60	0.43
18:c6:25:GLY:N	18:c6:63:ILE:HA	2.33	0.43
19:c7:32:LYS:O	19:c7:35:CYS:HB2	2.18	0.43
20:c8:11:PHE:HA	20:c8:59:GLY:O	2.18	0.43
20:c8:14:ILE:HD12	20:c8:14:ILE:HA	1.84	0.43
20:c8:125:ILE:O	20:c8:129:TRP:N	2.48	0.43
30:d8:8:THR:HB	30:d8:56:LEU:HB2	1.99	0.43
31:d9:19:ARG:HD3	31:d9:32:ARG:CD	2.45	0.43
33:e1:77:GLY:N	33:e1:78:LYS:O	2.51	0.43
35:sM:120:GLU:C	35:sM:122:GLU:H	2.27	0.43
36:5:902:G:C5	36:5:903:U:C5	3.07	0.43
36:5:1046:A:H2'	36:5:1049:C:C5	2.53	0.43
36:5:1048:A:H2'	47:m0:22:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1193:A:H2'	36:5:1194:G:O4'	2.19	0.43
36:5:1234:G:OP2	36:5:1235:U:H3'	2.17	0.43
36:5:1556:C:H2'	36:5:2169:G:N1	2.32	0.43
36:5:2376:G:C6	36:5:2377:G:O6	2.71	0.43
36:5:2655:U:C5	78:q2:4:VAL:HG22	2.53	0.43
36:5:2657:A:C2	36:5:2694:A:C8	3.06	0.43
36:5:3028:G:H2'	36:5:3029:A:O4'	2.18	0.43
36:5:3288:G:O2'	36:5:3289:G:P	2.76	0.43
40:l3:58:ARG:O	40:l3:71:GLU:HA	2.18	0.43
40:l3:227:GLU:CG	40:l3:270:ARG:HE	2.17	0.43
41:l4:328:ASN:O	41:l4:329:PRO:O	2.36	0.43
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.52	0.43
43:l6:72:ASN:OD1	43:l6:74:VAL:HG23	2.18	0.43
45:l8:91:PHE:CZ	45:l8:189:LEU:HD22	2.53	0.43
46:l9:146:LEU:HD12	46:l9:146:LEU:H	1.83	0.43
54:m8:2:GLY:C	54:m8:3:ILE:HD13	2.43	0.43
56:n0:141:LYS:HE3	56:n0:141:LYS:HB3	1.84	0.43
57:n1:52:MET:HG3	57:n1:95:HIS:CE1	2.53	0.43
63:n7:36:HIS:N	63:n7:37:PRO:HD3	2.34	0.43
70:o4:42:PRO:HG2	70:o4:54:ILE:HG22	2.00	0.43
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.82	0.43
78:q2:32:LYS:O	78:q2:33:ALA:HB3	2.18	0.43
81:p0:60:ARG:O	81:p0:64:ARG:HG3	2.18	0.43
1:2:36:C:H2'	1:2:37:U:O4'	2.17	0.43
1:2:298:C:H5''	1:2:299:A:OP2	2.18	0.43
1:2:813:U:C2	55:M9:163:ARG:HD2	2.53	0.43
1:2:825:U:H2'	1:2:826:U:C6	2.53	0.43
1:2:912:U:C5'	1:2:913:G:H2'	2.47	0.43
1:2:1232:U:H4'	12:C0:2:LEU:HD21	2.00	0.43
1:2:1285:U:O5'	1:2:1285:U:H6	2.01	0.43
1:2:1499:G:C2	1:2:1500:C:C2	3.06	0.43
1:2:1613:U:OP1	7:S5:169:ASN:HB3	2.18	0.43
9:S7:186:PRO:HB2	9:S7:187:SER:H	1.58	0.43
13:C1:124:THR:HB	13:C1:141:LYS:HB3	2.01	0.43
17:C5:28:MET:HE3	17:C5:29:SER:C	2.44	0.43
21:C9:6:VAL:HG22	21:C9:66:TYR:HE1	1.83	0.43
21:C9:28:LEU:HD12	21:C9:29:GLU:H	1.84	0.43
26:D4:53:ASP:CG	26:D4:96:LEU:HD21	2.43	0.43
35:SM:25:ILE:HA	35:SM:25:ILE:HD13	1.67	0.43
36:1:698:U:H2'	36:1:699:A:O4'	2.19	0.43
36:1:1412:G:C6	36:1:1413:G:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1506:A:C6	36:1:1510:G:C6	3.06	0.43
36:1:1668:G:C6	36:1:1669:C:C4	3.07	0.43
36:1:2208:A:O3'	36:1:2209:U:H6	2.01	0.43
36:1:2217:U:H2'	36:1:2218:G:C8	2.53	0.43
36:1:2732:G:C6	36:1:2733:A:C4	3.06	0.43
36:1:2790:A:O2'	86:1:3976:OHX:N1	2.52	0.43
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.18	0.43
36:1:2965:U:H2'	36:1:2966:G:O4'	2.18	0.43
36:1:3051:U:C2	36:1:3052:G:C8	3.06	0.43
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.19	0.43
39:L2:142:ASP:C	39:L2:143:GLU:HG3	2.42	0.43
41:L4:31:ARG:O	41:L4:34:ILE:N	2.52	0.43
41:L4:185:LYS:NZ	41:L4:201:GLN:HG2	2.32	0.43
41:L4:328:ASN:OD1	41:L4:330:TYR:N	2.43	0.43
44:L7:163:LEU:HD23	44:L7:163:LEU:HA	1.75	0.43
45:L8:133:LYS:HD2	45:L8:138:HIS:CE1	2.53	0.43
50:M4:12:TRP:CZ2	56:N0:153:PRO:HB3	2.53	0.43
50:M4:108:ARG:O	50:M4:110:ALA:N	2.51	0.43
51:M5:76:PRO:C	51:M5:78:GLY:H	2.26	0.43
51:M5:106:VAL:O	51:M5:109:ARG:N	2.51	0.43
54:M8:70:ALA:O	54:M8:73:GLN:HB2	2.18	0.43
54:M8:179:ARG:C	54:M8:181:SER:H	2.27	0.43
60:N4:38:SER:O	60:N4:42:GLN:N	2.47	0.43
62:N6:91:ASN:C	62:N6:93:ALA:H	2.26	0.43
62:N6:102:SER:O	62:N6:103:LYS:HD3	2.18	0.43
66:O0:43:ILE:O	66:O0:89:VAL:HG23	2.18	0.43
76:Q0:83:LYS:HZ2	76:Q0:83:LYS:HB3	1.84	0.43
1:6:141:U:H6	1:6:141:U:H2'	1.69	0.43
1:6:1030:A:N7	1:6:1792:G:C2	2.86	0.43
1:6:1271:G:H2'	1:6:1272:U:O4'	2.18	0.43
1:6:1347:U:C4	1:6:1517:U:O4	2.71	0.43
1:6:1445:G:C6	33:e1:91:ILE:HB	2.53	0.43
1:6:1638:G:C6	1:6:1639:C:C2	3.06	0.43
2:s0:20:ALA:HB1	2:s0:168:HIS:HB2	2.00	0.43
2:s0:64:ILE:HD12	2:s0:181:VAL:HG11	2.01	0.43
4:s2:116:LYS:HG2	4:s2:127:ALA:HB3	1.99	0.43
6:s4:126:VAL:HG13	6:s4:158:ASP:O	2.18	0.43
7:s5:31:GLU:HA	7:s5:34:GLN:HB2	1.99	0.43
7:s5:73:THR:HG22	7:s5:74:ALA:N	2.33	0.43
8:s6:48:TYR:CD2	8:s6:117:GLY:HA3	2.53	0.43
9:s7:80:GLU:HG3	9:s7:83:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:123:HIS:CG	80:e0:37:ARG:HD2	2.54	0.43
15:c3:53:LEU:HD12	15:c3:53:LEU:HA	1.89	0.43
16:c4:121:VAL:HA	16:c4:122:PRO:HD3	1.84	0.43
17:c5:127:ARG:HA	17:c5:130:ARG:CZ	2.49	0.43
20:c8:143:ARG:HA	20:c8:145:ARG:HG2	2.00	0.43
21:c9:76:LEU:HB3	21:c9:101:ASN:OD1	2.18	0.43
22:d0:99:ILE:H	22:d0:99:ILE:HG12	1.46	0.43
24:d2:11:LEU:HD11	24:d2:37:PHE:CE2	2.53	0.43
26:d4:36:SER:O	26:d4:40:LEU:HB2	2.18	0.43
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.99	0.43
34:sR:228:LYS:O	34:sR:229:LYS:HG3	2.18	0.43
36:5:30:G:P	51:m5:172:ARG:NH1	2.91	0.43
36:5:547:G:C5	36:5:548:G:H1'	2.53	0.43
36:5:811:U:H2'	36:5:812:G:C8	2.53	0.43
36:5:985:U:H2'	36:5:986:U:C6	2.52	0.43
36:5:2406:C:H2'	36:5:2407:C:C6	2.53	0.43
36:5:2943:G:H2'	36:5:2944:U:O4'	2.17	0.43
36:5:3159:C:H2'	36:5:3160:U:H6	1.81	0.43
37:7:55:A:H2'	37:7:56:A:O4'	2.18	0.43
37:7:110:G:C5	37:7:111:U:C4	3.07	0.43
41:l4:234:ASN:OD1	41:l4:234:ASN:C	2.61	0.43
42:l5:211:LEU:HD23	42:l5:211:LEU:HA	1.85	0.43
46:l9:48:VAL:CG2	46:l9:52:LEU:HB3	2.49	0.43
46:l9:48:VAL:HG23	46:l9:49:ASN:H	1.83	0.43
47:m0:52:LEU:HD23	47:m0:52:LEU:HA	1.76	0.43
48:m1:9:MET:O	48:m1:11:ASP:N	2.51	0.43
48:m1:107:ASP:O	48:m1:108:GLU:HG2	2.18	0.43
55:m9:119:LEU:HD12	55:m9:119:LEU:HA	1.77	0.43
55:m9:174:ALA:HA	55:m9:177:VAL:HG23	2.00	0.43
56:n0:10:ILE:HG12	56:n0:26:ARG:HB2	2.01	0.43
63:n7:13:VAL:HG12	63:n7:14:VAL:N	2.33	0.43
72:o6:62:ARG:NH1	72:o6:98:ARG:NH2	2.66	0.43
81:p0:89:THR:HG21	81:p0:96:ILE:HG21	2.00	0.43
1:2:48:G:C2	1:2:49:C:C6	3.07	0.43
1:2:93:A:H2'	1:2:398:G:N2	2.33	0.43
1:2:542:A:N1	32:E0:28:LYS:HD2	2.33	0.43
1:2:546:U:H2'	1:2:547:U:C6	2.54	0.43
1:2:958:U:O4	15:C3:12:SER:HB3	2.18	0.43
1:2:1087:A:H2'	1:2:1088:A:C8	2.52	0.43
1:2:1091:A:C8	1:2:1092:A:C6	3.06	0.43
1:2:1338:C:H1'	1:2:1410:A:C4	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1364:G:H4'	18:C6:26:LYS:HE2	2.00	0.43
1:2:1725:U:H2'	1:2:1726:G:O4'	2.18	0.43
4:S2:90:THR:N	4:S2:93:GLY:O	2.44	0.43
5:S3:60:GLY:HA3	5:S3:65:ARG:HB2	2.01	0.43
11:S9:59:LEU:HD22	11:S9:69:ARG:HA	2.00	0.43
12:C0:1:MET:HG2	12:C0:2:LEU:N	2.34	0.43
19:C7:27:ASP:OD2	19:C7:30:THR:HG22	2.19	0.43
27:D5:38:HIS:CG	27:D5:39:ALA:N	2.86	0.43
28:D6:24:VAL:HG12	28:D6:72:HIS:O	2.18	0.43
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.37	0.43
36:1:333:G:H1	38:4:30:C:H42	1.66	0.43
36:1:539:C:H2'	36:1:540:U:C6	2.48	0.43
36:1:1109:U:H2'	36:1:1110:U:O4'	2.18	0.43
36:1:1155:C:H2'	36:1:1156:C:H6	1.82	0.43
36:1:1352:A:H5''	36:1:1352:A:N3	2.33	0.43
36:1:1459:C:H2'	36:1:1460:A:O4'	2.19	0.43
36:1:1541:G:H1'	36:1:1557:A:C4	2.53	0.43
36:1:1662:G:O6	86:1:3878:OHX:N2	2.51	0.43
36:1:1717:U:H2'	36:1:1718:G:C8	2.53	0.43
36:1:2254:U:H2'	36:1:2261:G:H22	1.83	0.43
36:1:2275:A:H2'	36:1:2276:G:O4'	2.18	0.43
36:1:2403:G:C2	36:1:2405:C:C4	3.06	0.43
36:1:2993:G:H2'	36:1:3142:A:N6	2.33	0.43
36:1:3180:A:H5''	52:M6:116:LYS:HB2	2.00	0.43
39:L2:3:ARG:HG2	39:L2:4:VAL:N	2.33	0.43
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	2.00	0.43
44:L7:208:SER:O	44:L7:243:MET:HB3	2.19	0.43
53:M7:14:SER:HB3	53:M7:150:VAL:O	2.17	0.43
53:M7:57:ALA:O	53:M7:59:PRO:HD3	2.19	0.43
66:O0:40:LYS:HD3	66:O0:93:LEU:O	2.18	0.43
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.17	0.43
79:Q3:56:THR:HG22	79:Q3:63:THR:CG2	2.48	0.43
1:6:115:G:C8	13:c1:129:ARG:HB2	2.54	0.43
1:6:454:U:H2'	1:6:455:C:C5	2.53	0.43
1:6:462:G:O2'	1:6:463:U:H5'	2.18	0.43
1:6:1171:A:H2'	1:6:1172:G:C8	2.52	0.43
1:6:1391:A:H2'	1:6:1392:U:C6	2.54	0.43
1:6:1540:G:C5	1:6:1541:G:C8	3.06	0.43
1:6:1558:U:H3	17:c5:122:THR:CB	2.29	0.43
1:6:1684:U:H1'	1:6:1718:G:N2	2.34	0.43
3:s1:110:LEU:HD23	3:s1:113:MET:HE2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:136:ARG:HB2	3:s1:218:LEU:HD11	2.01	0.43
5:s3:115:ILE:HD12	5:s3:116:ARG:H	1.84	0.43
7:s5:190:ILE:O	7:s5:194:LEU:HB2	2.18	0.43
11:s9:125:ALA:O	11:s9:126:ARG:C	2.62	0.43
14:c2:88:LEU:HG	14:c2:89:ILE:H	1.83	0.43
18:c6:94:GLN:CD	34:sR:62:LYS:HE3	2.43	0.43
34:sR:121:MET:HE1	34:sR:167:VAL:HG21	1.99	0.43
36:5:132:C:N4	36:5:134:U:O4	2.51	0.43
36:5:236:G:N3	36:5:236:G:H2'	2.32	0.43
36:5:320:G:O2'	36:5:321:C:H5'	2.19	0.43
36:5:415:G:H1	38:8:8:C:H42	1.66	0.43
36:5:1017:C:OP1	36:5:1017:C:H2'	2.18	0.43
36:5:1030:A:H2'	36:5:1031:C:C6	2.53	0.43
36:5:1196:C:OP1	86:5:4231:OHX:N6	2.51	0.43
36:5:1393:A:C8	36:5:1418:A:C6	3.07	0.43
36:5:1614:C:H2'	36:5:1615:C:H6	1.84	0.43
36:5:2392:C:O2'	40:l3:266:ARG:NH2	2.42	0.43
36:5:2436:U:C2'	36:5:2437:G:H5'	2.47	0.43
36:5:2588:U:C4	36:5:2589:G:N7	2.86	0.43
86:5:3971:OHX:N6	86:5:4193:OHX:N3	2.65	0.43
86:8:216:OHX:N5	86:8:223:OHX:N3	2.66	0.43
45:l8:65:LEU:O	45:l8:69:LEU:HD13	2.19	0.43
46:l9:4:ILE:HD11	56:n0:150:PHE:CD2	2.53	0.43
46:l9:90:MET:HB2	46:l9:144:ILE:CG2	2.48	0.43
49:m3:185:LYS:NZ	49:m3:189:GLU:OE1	2.35	0.43
53:m7:61:ARG:HA	53:m7:64:ASN:ND2	2.33	0.43
55:m9:170:ARG:HA	55:m9:173:ARG:HB3	2.00	0.43
73:o7:84:SER:O	73:o7:85:LYS:HB3	2.18	0.43
1:2:359:A:C2	25:D3:38:PHE:HB3	2.53	0.43
1:2:380:U:H5	11:S9:5:PRO:CB	2.32	0.43
1:2:900:A:OP1	16:C4:43:THR:OG1	2.24	0.43
1:2:1036:A:H2'	1:2:1037:C:C6	2.52	0.43
1:2:1278:G:H2'	1:2:1279:C:O4'	2.17	0.43
1:2:1442:U:H2'	1:2:1443:U:C6	2.54	0.43
1:2:1498:G:O2'	1:2:1499:G:H5'	2.18	0.43
1:2:1560:U:O2	1:2:1560:U:O4'	2.35	0.43
1:2:1793:G:O3'	1:2:1794:A:H3'	2.19	0.43
9:S7:35:LYS:HE3	9:S7:35:LYS:HB3	1.84	0.43
15:C3:27:LYS:HB2	15:C3:28:LEU:H	1.41	0.43
17:C5:31:GLU:O	17:C5:35:LYS:HD3	2.19	0.43
18:C6:95:LYS:HE3	18:C6:96:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:30:VAL:HA	21:C9:31:PRO:HD2	1.87	0.43
23:D1:20:THR:HB	23:D1:22:ARG:HD3	2.00	0.43
23:D1:58:TYR:OH	24:D2:20:THR:HA	2.19	0.43
25:D3:132:LEU:HD22	25:D3:132:LEU:HA	1.81	0.43
26:D4:20:ARG:CZ	26:D4:74:LEU:HD22	2.48	0.43
26:D4:128:LYS:HA	26:D4:131:ARG:HG2	1.99	0.43
36:1:385:A:C6	36:1:386:A:C6	3.06	0.43
36:1:586:C:H2'	36:1:587:U:O4'	2.17	0.43
36:1:1191:U:OP1	76:Q0:113:ARG:NH2	2.52	0.43
36:1:1470:U:H2'	36:1:1471:U:H6	1.82	0.43
36:1:1743:G:H2'	36:1:1744:G:C8	2.51	0.43
36:1:2288:G:C2	36:1:2289:U:C2	3.06	0.43
36:1:2363:A:C6	36:1:2364:G:C6	3.06	0.43
36:1:2631:U:O2'	36:1:2632:G:H5'	2.19	0.43
36:1:2881:C:H42	36:1:2943:G:H1	1.65	0.43
86:1:4027:OHX:N2	86:1:4040:OHX:N5	2.66	0.43
39:L2:48:ILE:CD1	39:L2:57:PRO:HB2	2.49	0.43
39:L2:65:ASP:HA	39:L2:66:PRO:HD3	1.84	0.43
39:L2:71:LEU:HD12	39:L2:71:LEU:HA	1.72	0.43
41:L4:91:GLY:HA3	41:L4:94:CYS:SG	2.59	0.43
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.51	0.43
42:L5:41:LYS:HA	42:L5:41:LYS:HD2	1.58	0.43
44:L7:156:ILE:HD13	44:L7:172:ASN:OD1	2.19	0.43
46:L9:90:MET:HB2	46:L9:144:ILE:HG23	2.01	0.43
48:M1:82:ARG:HG3	48:M1:112:LEU:HB2	2.00	0.43
50:M4:128:ARG:O	50:M4:128:ARG:HG2	2.16	0.43
52:M6:147:TRP:CD1	52:M6:148:LYS:N	2.86	0.43
60:N4:35:LYS:HE2	60:N4:51:TRP:CZ2	2.54	0.43
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.99	0.43
62:N6:109:LEU:HD22	62:N6:115:ARG:CZ	2.49	0.43
70:O4:20:ILE:HD12	70:O4:32:ALA:HB1	2.00	0.43
77:Q1:1:MET:HE3	77:Q1:1:MET:HB2	1.72	0.43
1:6:104:A:OP2	1:6:308:C:N4	2.52	0.43
1:6:278:U:OP2	1:6:278:U:H2'	2.18	0.43
1:6:294:C:H2'	1:6:295:A:C8	2.54	0.43
1:6:1177:C:H4'	1:6:1189:A:N1	2.33	0.43
1:6:1350:U:H2'	1:6:1351:G:C8	2.53	0.43
1:6:1559:A:H5''	20:c8:135:GLY:HA2	2.01	0.43
2:s0:179:ARG:CD	2:s0:183:ARG:HD2	2.48	0.43
3:s1:32:ILE:HB	3:s1:43:VAL:HB	2.00	0.43
4:s2:68:ILE:O	4:s2:72:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:132:ARG:HB2	11:s9:140:ILE:HD13	2.01	0.43
19:c7:24:LEU:CD2	19:c7:34:LEU:HD12	2.49	0.43
22:d0:63:LEU:HB2	22:d0:84:MET:HB3	1.99	0.43
24:d2:87:GLU:HB2	24:d2:117:ARG:HH22	1.84	0.43
24:d2:113:HIS:O	24:d2:117:ARG:HB2	2.18	0.43
80:e0:51:ASN:HB3	80:e0:53:LYS:HG2	2.00	0.43
34:sR:221:MET:HG2	34:sR:233:THR:HG23	2.01	0.43
35:sM:32:SER:OG	35:sM:33:LYS:N	2.51	0.43
36:5:287:G:H5'	51:m5:179:LYS:HB3	2.01	0.43
36:5:289:A:O2'	51:m5:94:TYR:O	2.28	0.43
36:5:744:A:H5''	36:5:745:C:OP2	2.19	0.43
36:5:1002:A:N1	36:5:1051:U:C6	2.87	0.43
36:5:1130:A:C8	36:5:1132:C:C6	3.07	0.43
36:5:1162:U:H4'	68:o2:57:TYR:CD1	2.54	0.43
36:5:1817:G:HO2'	36:5:1818:U:H6	1.59	0.43
36:5:2554:A:H4'	36:5:2555:G:OP1	2.18	0.43
36:5:2711:C:H4'	86:5:4230:OHX:N1	2.33	0.43
36:5:3151:U:OP1	40:l3:128:LYS:HE2	2.19	0.43
36:5:3163:A:C6	36:5:3164:C:N4	2.87	0.43
36:5:3295:A:C2	36:5:3296:A:C4	3.06	0.43
86:5:3984:OHX:N6	38:8:111:A:O2'	2.52	0.43
86:5:3994:OHX:N4	86:5:4085:OHX:N1	2.67	0.43
38:8:46:G:N2	38:8:58:G:C4	2.87	0.43
40:l3:67:PHE:HD1	40:l3:72:VAL:HG12	1.82	0.43
40:l3:252:ILE:HA	40:l3:252:ILE:HD12	1.57	0.43
41:l4:144:LYS:H	41:l4:144:LYS:CD	2.31	0.43
42:l5:211:LEU:HD22	42:l5:215:ASP:HB3	1.99	0.43
45:l8:159:PRO:HG3	51:m5:43:THR:O	2.17	0.43
47:m0:210:ILE:HD13	47:m0:217:PHE:CZ	2.54	0.43
48:m1:27:GLY:O	48:m1:31:THR:HG23	2.19	0.43
48:m1:110:ILE:C	48:m1:112:LEU:H	2.26	0.43
56:n0:30:PHE:CE1	56:n0:103:VAL:HG21	2.54	0.43
56:n0:77:VAL:HG12	56:n0:79:VAL:HG23	2.00	0.43
56:n0:93:GLU:HG2	56:n0:129:ILE:HD11	2.01	0.43
57:n1:72:VAL:CG2	57:n1:96:ILE:HG13	2.49	0.43
59:n3:27:ASP:OD2	59:n3:28:ASN:N	2.51	0.43
60:n4:97:LYS:HA	60:n4:97:LYS:HE3	1.99	0.43
66:o0:8:GLU:O	66:o0:9:SER:OG	2.25	0.43
66:o0:9:SER:OG	66:o0:12:GLN:HB3	2.18	0.43
70:o4:57:LEU:HB3	70:o4:61:GLN:OE1	2.18	0.43
78:q2:2:VAL:N	78:q2:90:HIS:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:p0:69:ASP:OD1	81:p0:69:ASP:N	2.50	0.43
1:2:387:A:H5''	1:2:389:G:OP2	2.19	0.43
1:2:1107:G:C6	1:2:1108:G:C6	3.07	0.43
1:2:1274:C:C4	35:SM:96:ARG:HG3	2.53	0.43
86:2:2074:OHX:N6	86:2:2162:OHX:N2	2.67	0.43
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.19	0.43
7:S5:49:GLU:O	7:S5:51:VAL:N	2.52	0.43
7:S5:205:SER:C	7:S5:207:THR:N	2.76	0.43
8:S6:223:LYS:HD3	8:S6:223:LYS:HA	1.88	0.43
20:C8:90:ASN:O	20:C8:91:ASP:C	2.61	0.43
20:C8:116:LEU:HD12	20:C8:121:ALA:HB3	2.00	0.43
21:C9:135:ILE:O	21:C9:138:GLN:HB2	2.19	0.43
36:1:88:A:H8	36:1:88:A:O5'	2.02	0.43
36:1:1579:C:N3	36:1:1580:A:N6	2.66	0.43
36:1:3195:U:O2'	36:1:3197:G:N2	2.51	0.43
86:1:4023:OHX:N6	86:1:4143:OHX:N3	2.67	0.43
40:L3:35:ASP:OD2	40:L3:37:ARG:NH1	2.48	0.43
40:L3:124:LYS:HB2	40:L3:124:LYS:HE3	1.80	0.43
40:L3:312:VAL:O	40:L3:313:HIS:HB2	2.18	0.43
42:L5:153:THR:HG23	42:L5:160:PHE:CE2	2.54	0.43
43:L6:134:ARG:O	43:L6:137:ASP:N	2.51	0.43
44:L7:116:PHE:HB2	44:L7:199:ASN:OD1	2.19	0.43
44:L7:148:VAL:HG12	44:L7:181:ILE:HD11	1.99	0.43
45:L8:109:LEU:O	45:L8:112:GLU:N	2.51	0.43
47:M0:145:LYS:HB3	47:M0:146:ASP:H	1.68	0.43
52:M6:26:GLN:OE1	52:M6:31:GLN:HG2	2.18	0.43
54:M8:160:GLY:O	54:M8:161:LYS:HG2	2.19	0.43
57:N1:7:TYR:CZ	57:N1:54:HIS:HB2	2.54	0.43
57:N1:79:MET:HA	57:N1:84:TYR:HA	2.00	0.43
58:N2:89:LEU:O	58:N2:93:ILE:HG13	2.19	0.43
61:N5:53:HIS:HB3	61:N5:56:ARG:HH21	1.83	0.43
62:N6:74:TYR:CE1	62:N6:77:LYS:HG3	2.53	0.43
67:O1:13:THR:HG22	67:O1:72:ARG:NH1	2.33	0.43
77:Q1:12:ARG:O	77:Q1:15:ARG:N	2.52	0.43
1:6:26:A:HO2'	1:6:27:U:H6	1.64	0.43
1:6:538:A:H8	1:6:543:C:H41	1.58	0.43
1:6:633:U:H2'	1:6:634:G:O4'	2.18	0.43
1:6:1066:C:H2'	1:6:1067:C:C6	2.54	0.43
1:6:1099:U:OP1	24:d2:71:LYS:NZ	2.31	0.43
1:6:1165:G:H4'	7:s5:99:MET:HE1	2.00	0.43
1:6:1401:A:O3'	19:c7:10:LYS:NZ	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1431:C:H1'	1:6:1437:U:O4	2.19	0.43
1:6:1491:U:H4'	1:6:1492:A:O5'	2.19	0.43
86:6:2059:OHX:N2	86:6:2147:OHX:N6	2.67	0.43
86:6:2059:OHX:N1	86:6:2147:OHX:N4	2.67	0.43
2:s0:34:GLU:OE2	23:d1:87:ARG:NH1	2.50	0.43
3:s1:119:THR:HB	3:s1:143:THR:HG23	2.01	0.43
4:s2:143:TYR:OH	4:s2:151:PRO:HD3	2.18	0.43
5:s3:11:LEU:HD12	22:d0:29:THR:HG23	2.00	0.43
6:s4:113:ARG:H	6:s4:113:ARG:HG3	1.60	0.43
7:s5:41:LYS:HE2	7:s5:67:PRO:HB2	1.99	0.43
9:s7:129:LEU:C	9:s7:131:PHE:H	2.26	0.43
15:c3:136:PRO:HA	15:c3:137:PRO:HD2	1.71	0.43
34:sR:16:HIS:HE1	34:sR:41:THR:O	2.01	0.43
34:sR:309:VAL:HB	34:sR:311:ARG:NH1	2.34	0.43
36:5:76:G:O6	49:m3:101:ARG:HA	2.19	0.43
36:5:612:U:H2'	36:5:613:G:H8	1.84	0.43
36:5:1131:G:C4	36:5:2373:A:C2	3.07	0.43
36:5:1213:G:H4'	56:n0:90:MET:HG3	2.01	0.43
36:5:1317:A:C2	36:5:1319:G:C6	3.06	0.43
36:5:1446:A:H5''	53:m7:65:SER:HB2	2.00	0.43
36:5:2232:A:H2'	36:5:2233:A:O4'	2.19	0.43
36:5:2278:C:C2'	36:5:2279:A:H5''	2.49	0.43
36:5:2444:C:N4	36:5:2504:U:O4	2.52	0.43
36:5:3084:C:O2'	36:5:3332:U:OP1	2.27	0.43
86:5:3994:OHX:N6	86:5:4085:OHX:N2	2.66	0.43
40:l3:199:PHE:C	40:l3:201:LYS:N	2.76	0.43
41:l4:233:LEU:HD23	41:l4:233:LEU:HA	1.80	0.43
42:l5:152:ARG:NH1	42:l5:152:ARG:HG3	2.34	0.43
44:l7:103:LEU:HA	44:l7:130:ILE:HD11	2.01	0.43
49:m3:47:ALA:HB1	49:m3:48:PRO:CD	2.48	0.43
49:m3:119:TYR:HD1	49:m3:145:PHE:CE2	2.36	0.43
51:m5:103:GLU:OE1	51:m5:118:SER:OG	2.37	0.43
53:m7:85:ALA:O	53:m7:89:LYS:HB2	2.18	0.43
54:m8:91:ALA:HB3	64:n8:77:LYS:HE3	2.00	0.43
56:n0:14:LEU:HD23	56:n0:14:LEU:HA	1.67	0.43
56:n0:151:PRO:O	56:n0:153:PRO:HD3	2.19	0.43
61:n5:67:ILE:HD12	61:n5:121:LYS:HG3	2.00	0.43
63:n7:89:VAL:HG22	63:n7:93:LYS:HA	2.00	0.43
63:n7:107:ARG:O	63:n7:111:LYS:HB2	2.19	0.43
64:n8:22:ILE:H	64:n8:22:ILE:HG12	1.27	0.43
64:n8:49:HIS:N	64:n8:50:PRO:HD3	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:14:ARG:NH2	65:n9:18:ARG:HH11	2.17	0.43
71:o5:85:THR:HG22	71:o5:87:ALA:N	2.34	0.43
72:o6:53:TYR:O	72:o6:57:LEU:HB2	2.19	0.43
1:2:376:C:H2'	1:2:377:G:H8	1.83	0.43
1:2:405:C:O2'	8:S6:92:ARG:O	2.27	0.43
1:2:439:U:O4'	1:2:465:G:N2	2.52	0.43
1:2:521:A:H2'	1:2:522:U:O4'	2.18	0.43
1:2:538:A:C8	1:2:543:C:N4	2.87	0.43
1:2:539:G:OP2	1:2:539:G:C8	2.71	0.43
1:2:819:G:C6	1:2:853:G:C6	3.07	0.43
1:2:872:G:H2'	1:2:873:U:O4'	2.18	0.43
1:2:938:G:N2	1:2:941:A:OP2	2.38	0.43
1:2:1274:C:N4	35:SM:95:SER:HA	2.33	0.43
1:2:1483:A:H61	1:2:1591:C:C1'	2.31	0.43
86:2:2089:OHX:N5	86:2:2131:OHX:N6	2.66	0.43
3:S1:179:SER:O	3:S1:182:ALA:HB3	2.19	0.43
4:S2:90:THR:O	4:S2:92:ALA:N	2.52	0.43
5:S3:161:GLY:O	5:S3:164:VAL:HB	2.18	0.43
5:S3:220:PRO:HG3	34:SR:221:MET:HE2	1.99	0.43
6:S4:180:LEU:HD23	6:S4:194:THR:H	1.84	0.43
7:S5:50:GLU:HB2	7:S5:51:VAL:H	1.70	0.43
8:S6:22:HIS:HA	8:S6:25:ARG:HB2	2.01	0.43
9:S7:154:LEU:HD21	9:S7:183:PHE:CD1	2.53	0.43
9:S7:182:VAL:HG12	9:S7:183:PHE:N	2.33	0.43
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.19	0.43
13:C1:44:THR:O	13:C1:44:THR:OG1	2.32	0.43
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.52	0.43
21:C9:128:GLY:O	21:C9:129:GLN:C	2.61	0.43
25:D3:103:LEU:HD13	25:D3:104:LEU:N	2.33	0.43
26:D4:18:LEU:HD23	26:D4:18:LEU:HA	1.82	0.43
27:D5:52:LYS:O	27:D5:55:PRO:HD3	2.18	0.43
30:D8:16:LEU:HB2	30:D8:27:GLN:O	2.19	0.43
34:SR:281:TYR:HB3	34:SR:282:SER:H	1.47	0.43
36:1:277:G:OP1	86:1:3869:OHX:N5	2.51	0.43
36:1:304:G:H2'	36:1:304:G:N3	2.34	0.43
36:1:381:U:O4	86:1:4057:OHX:N4	2.51	0.43
36:1:867:G:C6	36:1:868:C:C4	3.07	0.43
36:1:1068:C:H5'	57:N1:110:LYS:HZ1	1.83	0.43
36:1:1175:C:O2	52:M6:87:MET:HG2	2.19	0.43
36:1:1230:G:N2	36:1:1279:C:N3	2.64	0.43
36:1:1407:A:O3'	68:O2:33:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1591:G:OP2	70:O4:17:SER:HB3	2.19	0.43
36:1:1802:C:H2'	36:1:1803:C:O4'	2.18	0.43
36:1:1939:G:C6	36:1:1940:G:C5	3.07	0.43
36:1:2173:U:H2'	36:1:2174:G:N7	2.34	0.43
36:1:2265:C:C2'	36:1:2266:U:H5'	2.49	0.43
36:1:2295:A:OP1	59:N3:63:LYS:NZ	2.52	0.43
36:1:2988:C:OP1	52:M6:68:ARG:NH1	2.51	0.43
36:1:3033:A:H2'	36:1:3034:C:H6	1.84	0.43
36:1:3068:U:P	55:M9:59:SER:HG	2.41	0.43
36:1:3084:C:H2'	36:1:3085:G:O4'	2.19	0.43
37:3:79:A:OP2	86:3:218:OHX:N2	2.52	0.43
39:L2:221:LYS:O	39:L2:222:ALA:C	2.62	0.43
40:L3:238:LEU:HD12	40:L3:238:LEU:HA	1.72	0.43
41:L4:23:PRO:HD3	41:L4:255:PHE:CZ	2.53	0.43
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.59	0.43
44:L7:110:ARG:HB2	54:M8:2:GLY:O	2.18	0.43
47:M0:182:LEU:HD22	47:M0:186:GLU:OE2	2.18	0.43
48:M1:60:ARG:NH1	48:M1:63:GLU:HG3	2.33	0.43
48:M1:81:GLU:HB2	48:M1:167:TYR:HE2	1.84	0.43
51:M5:60:VAL:O	51:M5:61:ILE:HD13	2.18	0.43
53:M7:64:ASN:O	53:M7:67:ILE:HB	2.18	0.43
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.54	0.43
59:N3:46:LEU:O	59:N3:47:ASN:HB2	2.18	0.43
60:N4:46:PRO:HB3	60:N4:54:LEU:HD13	2.00	0.43
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	2.00	0.43
66:O0:12:GLN:O	66:O0:16:LEU:N	2.52	0.43
67:O1:23:VAL:HG12	67:O1:24:SER:O	2.19	0.43
70:O4:44:CYS:SG	70:O4:46:ASP:HB2	2.59	0.43
74:O8:27:ILE:H	74:O8:78:LEU:HD11	1.83	0.43
1:6:246:G:C6	1:6:247:A:C6	3.06	0.43
1:6:629:U:O2	1:6:971:A:C2	2.72	0.43
1:6:964:U:H4'	1:6:965:U:O4'	2.19	0.43
1:6:1034:C:O2'	24:d2:2:THR:N	2.49	0.43
1:6:1590:G:OP2	86:6:2157:OHX:N6	2.51	0.43
1:6:1765:A:OP2	86:6:2126:OHX:N4	2.52	0.43
2:s0:25:GLY:N	2:s0:46:HIS:O	2.47	0.43
2:s0:86:VAL:HG12	2:s0:174:TRP:CZ2	2.53	0.43
3:s1:171:ILE:O	3:s1:175:GLU:HB2	2.18	0.43
4:s2:94:GLN:HG2	4:s2:95:ARG:H	1.83	0.43
4:s2:218:ILE:H	4:s2:218:ILE:HG13	1.69	0.43
6:s4:26:CYS:HB2	6:s4:27:TYR:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:122:GLU:C	8:s6:124:LEU:H	2.24	0.43
9:s7:74:GLN:NE2	9:s7:92:PHE:HB2	2.33	0.43
10:s8:98:LYS:HG2	10:s8:99:ALA:N	2.33	0.43
28:d6:96:ALA:HA	28:d6:97:PRO:HD3	1.88	0.43
33:e1:113:LYS:HE3	33:e1:113:LYS:HB3	1.86	0.43
34:sR:228:LYS:HB2	34:sR:228:LYS:HE3	1.82	0.43
34:sR:276:PRO:O	34:sR:278:PHE:N	2.51	0.43
36:5:541:U:H2'	36:5:542:G:C8	2.54	0.43
36:5:671:U:H2'	36:5:672:A:C8	2.54	0.43
36:5:1942:U:OP2	55:m9:74:ARG:NH1	2.48	0.43
36:5:2442:G:N1	36:5:2443:A:N7	2.67	0.43
36:5:2520:A:H2'	36:5:2521:U:C6	2.53	0.43
36:5:2585:G:O6	45:l8:47:SER:HB2	2.18	0.43
36:5:2897:A:H2'	36:5:2899:C:C5'	2.48	0.43
36:5:3366:G:H2'	36:5:3367:C:C6	2.54	0.43
86:5:4004:OHX:N4	86:5:4195:OHX:N1	2.67	0.43
40:l3:4:ARG:HH11	40:l3:4:ARG:CG	2.32	0.43
40:l3:293:ASN:HB2	40:l3:305:ILE:H	1.83	0.43
44:l7:144:ILE:H	44:l7:144:ILE:HG13	1.69	0.43
44:l7:147:LEU:HD23	44:l7:147:LEU:HA	1.51	0.43
45:l8:46:LEU:O	45:l8:49:TYR:N	2.48	0.43
47:m0:144:ASN:O	47:m0:148:VAL:HG23	2.19	0.43
52:m6:16:VAL:HG12	52:m6:17:GLY:N	2.34	0.43
53:m7:84:PRO:O	53:m7:87:SER:HB2	2.19	0.43
55:m9:41:ILE:HD13	55:m9:41:ILE:HA	1.83	0.43
55:m9:141:HIS:O	55:m9:142:ILE:C	2.62	0.43
56:n0:68:HIS:HA	56:n0:69:PRO:HD3	1.80	0.43
56:n0:82:ASP:HB2	56:n0:120:SER:HB3	1.99	0.43
57:n1:103:GLN:O	57:n1:107:GLU:HB2	2.19	0.43
58:n2:15:PHE:CE2	58:n2:71:PHE:HD1	2.36	0.43
59:n3:46:LEU:O	59:n3:47:ASN:HB2	2.19	0.43
62:n6:38:GLU:O	62:n6:41:ALA:HB3	2.19	0.43
62:n6:69:LYS:HB2	62:n6:69:LYS:HE3	1.88	0.43
62:n6:103:LYS:HA	62:n6:103:LYS:HD3	1.69	0.43
62:n6:108:LYS:HD3	62:n6:108:LYS:HA	1.33	0.43
63:n7:46:ILE:HD11	63:n7:49:TYR:CE2	2.53	0.43
64:n8:84:GLU:O	64:n8:87:ARG:HB2	2.18	0.43
65:n9:7:HIS:CG	65:n9:8:THR:N	2.85	0.43
65:n9:43:HIS:NE2	65:n9:47:LEU:HD21	2.33	0.43
68:o2:82:LEU:HD12	68:o2:108:ILE:CG2	2.48	0.43
70:o4:66:SER:HB2	70:o4:69:HIS:ND1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:p0:93:LEU:HB2	81:p0:94:THR:HG23	2.00	0.43
1:2:373:G:N7	86:2:2159:OHX:N6	2.67	0.43
1:2:398:G:OP2	10:S8:47:ARG:NH1	2.48	0.43
1:2:702:G:O2'	1:2:703:G:H8	2.00	0.43
1:2:710:U:H2'	1:2:711:U:H5'	2.01	0.43
1:2:755:A:HO2'	1:2:756:A:P	2.42	0.43
1:2:854:U:O2'	1:2:855:A:H5'	2.19	0.43
1:2:926:A:H2'	1:2:927:C:O4'	2.19	0.43
1:2:1193:A:OP1	1:2:1193:A:H8	2.01	0.43
1:2:1484:G:O4'	1:2:1607:G:H4'	2.19	0.43
1:2:1520:U:H5''	21:C9:75:LYS:HZ3	1.84	0.43
1:2:1521:G:O2'	1:2:1523:G:OP2	2.15	0.43
1:2:1601:G:H22	21:C9:88:VAL:HG22	1.82	0.43
2:S0:109:ASN:OD1	2:S0:111:ILE:HG22	2.19	0.43
2:S0:139:VAL:HG23	4:S2:62:PRO:HG3	2.01	0.43
2:S0:184:LEU:HD13	23:D1:45:ALA:HB2	2.01	0.43
2:S0:184:LEU:O	2:S0:185:ARG:C	2.61	0.43
3:S1:178:GLY:HA3	3:S1:187:LYS:NZ	2.34	0.43
5:S3:128:GLU:C	5:S3:130:GLY:H	2.27	0.43
9:S7:49:ILE:HD11	9:S7:172:VAL:HG22	2.01	0.43
11:S9:127:VAL:O	11:S9:130:THR:HG22	2.19	0.43
12:C0:76:LEU:H	12:C0:76:LEU:HD22	1.84	0.43
18:C6:60:PHE:CZ	18:C6:89:LEU:HD13	2.54	0.43
19:C7:12:ALA:O	19:C7:15:ALA:N	2.51	0.43
23:D1:56:SER:HG	23:D1:59:VAL:HG23	1.84	0.43
34:SR:161:LYS:HE3	34:SR:164:ASP:CB	2.45	0.43
36:1:201:A:H2'	36:1:202:G:C8	2.54	0.43
36:1:520:U:C4	44:L7:67:ARG:HD3	2.54	0.43
36:1:532:A:H2	36:1:560:G:H22	1.67	0.43
36:1:634:C:H5'	69:O3:21:ARG:O	2.19	0.43
36:1:839:C:H1'	36:1:1724:U:OP1	2.18	0.43
36:1:915:A:N3	36:1:915:A:C2'	2.82	0.43
36:1:1213:G:C2	36:1:1293:U:C2	3.07	0.43
36:1:1428:A:OP2	64:N8:2:PRO:HB2	2.18	0.43
36:1:1488:G:H5''	36:1:1838:G:O6	2.19	0.43
36:1:1764:U:OP1	55:M9:43:LYS:HD3	2.19	0.43
36:1:2653:C:OP1	78:Q2:89:LYS:HB2	2.18	0.43
36:1:2763:U:H6	36:1:2763:U:O5'	2.01	0.43
36:1:2810:C:OP1	86:1:4078:OHX:N6	2.52	0.43
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.19	0.43
36:1:3018:C:C5	36:1:3019:U:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3100:U:O2	36:1:3101:G:C8	2.72	0.43
37:3:28:C:H5''	48:M1:137:ARG:HG2	2.01	0.43
39:L2:64:ARG:HH12	45:L8:38:GLN:HA	1.84	0.43
41:L4:120:TYR:O	41:L4:120:TYR:HD1	2.02	0.43
41:L4:330:TYR:O	41:L4:331:ALA:C	2.61	0.43
42:L5:90:HIS:C	42:L5:92:LEU:HD12	2.44	0.43
47:M0:92:HIS:HA	47:M0:93:PRO:HD3	1.89	0.43
50:M4:118:PHE:O	50:M4:122:VAL:HG23	2.18	0.43
51:M5:177:GLY:H	51:M5:184:LYS:NZ	2.17	0.43
53:M7:62:ARG:O	86:M7:206:OHX:N1	2.52	0.43
53:M7:94:LEU:N	53:M7:94:LEU:HD13	2.34	0.43
53:M7:127:ARG:HB3	53:M7:139:TYR:O	2.18	0.43
67:O1:17:HIS:HB2	67:O1:69:TYR:HB3	2.01	0.43
1:6:234:G:H2'	1:6:235:G:O4'	2.18	0.43
1:6:358:U:O2'	1:6:360:A:H5''	2.19	0.43
1:6:770:A:OP2	86:6:2138:OHX:N3	2.52	0.43
1:6:877:G:H5'	1:6:937:C:H1'	2.00	0.43
1:6:1147:A:H2'	1:6:1148:C:C6	2.54	0.43
1:6:1153:G:H1	1:6:1625:C:N4	2.16	0.43
1:6:1172:G:H2'	1:6:1173:C:C6	2.54	0.43
1:6:1203:A:C6	1:6:1555:A:C6	3.07	0.43
1:6:1391:A:C8	1:6:1412:G:C6	3.06	0.43
1:6:1471:A:H5'	7:s5:184:PHE:CE2	2.53	0.43
1:6:1697:G:H2'	1:6:1697:G:N3	2.34	0.43
3:s1:109:LYS:O	3:s1:112:SER:OG	2.15	0.43
4:s2:160:GLY:O	4:s2:166:THR:HA	2.18	0.43
6:s4:194:THR:HG23	6:s4:211:LYS:O	2.19	0.43
7:s5:216:GLU:HG3	7:s5:219:ARG:NH2	2.28	0.43
8:s6:21:GLU:O	8:s6:25:ARG:HG3	2.18	0.43
8:s6:195:VAL:O	8:s6:196:ARG:C	2.62	0.43
13:c1:46:LYS:O	13:c1:50:GLU:HG2	2.19	0.43
15:c3:92:ILE:HA	15:c3:122:ILE:HD11	2.01	0.43
16:c4:14:PHE:HA	16:c4:78:ALA:O	2.18	0.43
16:c4:22:SER:HG	16:c4:25:ASP:H	1.64	0.43
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.19	0.43
20:c8:100:THR:O	20:c8:101:LEU:HD23	2.18	0.43
20:c8:117:LYS:O	20:c8:120:ARG:HG3	2.19	0.43
20:c8:131:LEU:HD23	20:c8:131:LEU:HA	1.77	0.43
21:c9:38:LYS:HD2	21:c9:40:SER:O	2.19	0.43
24:d2:114:GLU:O	24:d2:118:ARG:HG3	2.19	0.43
25:d3:109:ARG:HB3	25:d3:109:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:144:CYS:C	33:e1:146:SER:N	2.76	0.43
36:5:253:A:HO2'	36:5:254:A:H8	1.64	0.43
36:5:624:G:H2'	36:5:625:G:C8	2.53	0.43
36:5:998:A:H2	36:5:1051:U:O4	2.02	0.43
36:5:1573:G:C6	36:5:1574:C:H1'	2.54	0.43
36:5:1700:G:C6	36:5:1701:C:C4	3.06	0.43
36:5:1733:G:N7	86:5:3962:OHX:N6	2.67	0.43
36:5:1734:G:O6	86:5:3962:OHX:N5	2.52	0.43
36:5:2652:U:C4	36:5:2759:U:O2	2.71	0.43
36:5:2680:A:C4	48:m1:57:PHE:CD2	3.02	0.43
36:5:3128:G:OP2	86:5:4154:OHX:N5	2.52	0.43
36:5:3280:U:O2'	36:5:3281:U:H5''	2.18	0.43
36:5:3308:C:N4	36:5:3309:G:C6	2.87	0.43
86:5:4029:OHX:N6	86:5:4232:OHX:N5	2.67	0.43
37:7:7:G:O3'	42:15:33:ARG:NH2	2.52	0.43
38:8:37:A:C6	38:8:104:A:C5	3.06	0.43
39:12:54:ARG:HG2	39:12:55:GLY:O	2.19	0.43
41:14:179:LEU:O	41:14:180:LYS:C	2.61	0.43
41:14:191:LYS:HD3	41:14:194:TYR:OH	2.19	0.43
41:14:269:SER:C	41:14:271:LYS:N	2.77	0.43
43:16:170:LYS:O	43:16:171:PRO:C	2.61	0.43
44:17:140:SER:O	44:17:144:ILE:HG13	2.19	0.43
46:19:37:ASN:OD1	46:19:37:ASN:C	2.61	0.43
56:n0:14:LEU:HA	56:n0:15:PRO:HD3	1.89	0.43
63:n7:49:TYR:CE2	63:n7:133:LYS:HA	2.54	0.43
71:o5:114:ARG:O	71:o5:116:TYR:HD2	2.02	0.43
72:o6:42:SER:OG	72:o6:43:LEU:N	2.50	0.43
1:2:14:C:H2'	1:2:15:U:C6	2.54	0.43
1:2:154:G:C5'	8:S6:108:VAL:HG21	2.49	0.43
1:2:651:G:H2'	1:2:652:G:O4'	2.19	0.43
1:2:1017:U:H2'	1:2:1018:U:H6	1.84	0.43
1:2:1036:A:H2'	1:2:1037:C:H6	1.82	0.43
1:2:1332:C:O2'	5:S3:162:GLN:HB3	2.19	0.43
2:S0:157:ASP:OD2	23:D1:60:ARG:HD2	2.19	0.43
6:S4:42:LEU:HD23	6:S4:42:LEU:HA	1.67	0.43
6:S4:51:ARG:HB3	6:S4:111:VAL:CG2	2.48	0.43
7:S5:93:LEU:HD22	7:S5:93:LEU:HA	1.90	0.43
7:S5:163:SER:HB2	30:D8:48:VAL:HG22	2.01	0.43
9:S7:114:ARG:O	9:S7:116:ARG:N	2.47	0.43
9:S7:137:GLY:HA2	15:C3:18:TYR:CE2	2.54	0.43
13:C1:90:TYR:HE1	13:C1:92:HIS:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:130:ARG:HD3	35:SM:74:LYS:HG2	2.01	0.43
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.19	0.43
30:D8:22:ARG:HD3	30:D8:22:ARG:HA	1.58	0.43
33:E1:144:CYS:C	33:E1:146:SER:N	2.72	0.43
34:SR:210:LEU:HD21	34:SR:231:MET:HE1	2.01	0.43
36:1:208:C:OP2	41:L4:163:LYS:NZ	2.50	0.43
36:1:522:A:C2	36:1:523:A:H1'	2.54	0.43
36:1:657:A:H2'	36:1:658:G:H8	1.83	0.43
36:1:824:C:O2'	36:1:1534:A:N3	2.48	0.43
36:1:1119:C:OP2	86:1:3947:OHX:N1	2.52	0.43
36:1:1177:G:H1'	36:1:1178:G:N7	2.33	0.43
36:1:1562:C:H2'	36:1:1563:C:C6	2.54	0.43
36:1:1670:C:H1'	36:1:1780:G:N2	2.34	0.43
36:1:1927:G:OP1	79:Q3:8:VAL:HG13	2.19	0.43
36:1:2419:A:H1'	36:1:2804:A:O4'	2.19	0.43
36:1:2723:U:H2'	36:1:2724:U:H6	1.82	0.43
36:1:3113:A:H4'	46:L9:69:ARG:HB3	2.00	0.43
36:1:3186:A:O2'	46:L9:42:ASP:HA	2.19	0.43
86:1:3998:OHX:N3	86:1:4169:OHX:N3	2.67	0.43
37:3:30:G:C6	37:3:31:U:C4	3.07	0.43
39:L2:129:ALA:HB3	39:L2:132:ASN:OD1	2.19	0.43
41:L4:22:LEU:CD2	41:L4:26:PHE:HB2	2.48	0.43
42:L5:37:VAL:CG1	57:N1:31:LEU:HD21	2.49	0.43
42:L5:57:ASN:C	42:L5:58:LYS:HG2	2.44	0.43
42:L5:250:ASP:HA	42:L5:251:PRO:HD3	1.74	0.43
44:L7:68:ASP:O	44:L7:71:ALA:HB3	2.19	0.43
44:L7:125:GLU:O	44:L7:129:LEU:HB2	2.19	0.43
44:L7:176:TYR:CD2	44:L7:194:HIS:CD2	3.07	0.43
49:M3:33:VAL:HG12	49:M3:34:SER:N	2.33	0.43
50:M4:25:LYS:CD	50:M4:62:GLN:HB3	2.49	0.43
51:M5:91:GLU:O	51:M5:93:LYS:HE2	2.19	0.43
51:M5:193:ARG:C	51:M5:195:ASN:N	2.75	0.43
52:M6:41:LEU:HD12	52:M6:41:LEU:HA	1.80	0.43
54:M8:88:THR:HG22	54:M8:107:THR:HG21	2.00	0.43
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.01	0.43
62:N6:95:VAL:HA	62:N6:96:PRO:HD3	1.67	0.43
66:O0:27:TYR:O	66:O0:31:VAL:HG23	2.19	0.43
68:O2:101:SER:OG	68:O2:103:LYS:HG2	2.19	0.43
69:O3:75:HIS:HB3	69:O3:80:VAL:HG12	2.00	0.43
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CZ3	2.53	0.43
1:6:400:A:H4'	1:6:401:A:H5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:405:C:O5'	1:6:405:C:H6	2.02	0.43
1:6:1248:C:H2'	1:6:1249:U:C6	2.53	0.43
1:6:1562:G:C6	1:6:1563:C:C4	3.07	0.43
1:6:1699:G:N2	1:6:1702:A:H5''	2.33	0.43
2:s0:67:ILE:HD13	2:s0:67:ILE:HA	1.84	0.43
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.59	0.43
3:s1:197:ILE:HB	3:s1:210:ILE:HG21	2.00	0.43
4:s2:99:LYS:HB2	4:s2:117:THR:HB	2.01	0.43
4:s2:139:ILE:CD1	4:s2:191:ALA:HB1	2.49	0.43
4:s2:229:LEU:HD23	23:d1:23:ILE:HD11	2.01	0.43
8:s6:28:PHE:O	8:s6:30:LYS:HG3	2.19	0.43
9:s7:164:TYR:C	9:s7:166:LEU:H	2.27	0.43
10:s8:182:TYR:HD2	10:s8:182:TYR:H	1.67	0.43
15:c3:65:VAL:C	15:c3:67:THR:N	2.76	0.43
18:c6:33:GLY:O	21:c9:7:ARG:HB3	2.19	0.43
20:c8:72:ILE:HA	20:c8:79:TYR:HE2	1.84	0.43
27:d5:49:ARG:HD2	27:d5:53:GLU:OE1	2.19	0.43
36:5:534:U:O2	56:n0:146:LYS:HA	2.19	0.43
36:5:670:C:OP1	54:m8:147:ARG:NH2	2.49	0.43
36:5:1222:G:OP1	81:p0:58:MET:HG2	2.19	0.43
36:5:1316:C:N4	52:m6:131:PRO:HD3	2.34	0.43
36:5:1354:G:C6	43:l6:9:TRP:CZ2	3.07	0.43
36:5:1700:G:N2	36:5:1745:C:N3	2.63	0.43
36:5:1716:U:H5'	36:5:1716:U:H6	1.83	0.43
36:5:1764:U:H3'	36:5:1765:U:H5''	2.01	0.43
36:5:2101:C:O2'	36:5:2102:U:P	2.76	0.43
36:5:2568:C:N4	36:5:2574:G:C6	2.86	0.43
36:5:2842:U:C4	36:5:2843:U:C5	3.06	0.43
36:5:2876:C:H42	36:5:2951:G:H1	1.66	0.43
36:5:3111:U:O4	36:5:3121:U:H5	2.01	0.43
36:5:3121:U:H1'	36:5:3122:A:H5''	2.01	0.43
86:5:4004:OHX:N3	86:5:4195:OHX:N5	2.67	0.43
38:8:83:C:H4'	38:8:85:G:H21	1.83	0.43
40:l3:81:THR:HG23	40:l3:205:VAL:CG2	2.47	0.43
50:m4:108:ARG:HH21	52:m6:197:LEU:HA	1.83	0.43
53:m7:27:LYS:HA	53:m7:63:PHE:CD2	2.54	0.43
53:m7:72:GLN:OE1	53:m7:83:TRP:NE1	2.51	0.43
54:m8:76:ALA:HA	54:m8:79:LYS:HD3	2.01	0.43
54:m8:116:LYS:C	54:m8:118:GLY:H	2.26	0.43
57:n1:134:GLN:HE21	57:n1:134:GLN:HB3	1.50	0.43
58:n2:101:ASN:O	58:n2:102:GLU:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:133:LEU:HD22	61:n5:133:LEU:HA	1.68	0.43
67:o1:100:SER:OG	67:o1:102:LYS:HB3	2.19	0.43
77:q1:1:MET:HE2	77:q1:1:MET:HB2	1.81	0.43
1:2:4:C:H2'	1:2:5:U:H6	1.84	0.42
1:2:41:A:H2'	1:2:438:A:N7	2.34	0.42
1:2:191:C:HO2'	1:2:192:U:P	2.42	0.42
1:2:393:C:H2'	1:2:394:C:C6	2.54	0.42
1:2:462:G:C6	1:2:463:U:C4	3.07	0.42
1:2:498:G:C4	1:2:499:U:N3	2.87	0.42
1:2:852:C:N4	1:2:853:G:C6	2.87	0.42
1:2:854:U:O4	55:M9:173:ARG:NH2	2.52	0.42
1:2:855:A:H3'	1:2:856:A:H5''	2.00	0.42
1:2:924:A:H2'	1:2:925:G:C8	2.53	0.42
1:2:1080:U:H2'	1:2:1081:A:C8	2.54	0.42
1:2:1081:A:H5''	1:2:1082:C:OP1	2.18	0.42
1:2:1277:G:H5'	5:S3:140:GLY:HA2	2.01	0.42
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.60	0.42
8:S6:5:ILE:HD13	8:S6:50:PHE:CE1	2.54	0.42
8:S6:150:GLU:O	8:S6:152:ASP:N	2.51	0.42
9:S7:71:HIS:CD2	9:S7:131:PHE:HZ	2.36	0.42
9:S7:89:HIS:HD2	9:S7:165:LYS:HG2	1.84	0.42
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.84	0.42
12:C0:8:ARG:HG3	12:C0:12:HIS:ND1	2.34	0.42
12:C0:68:LEU:HD12	12:C0:69:THR:N	2.34	0.42
13:C1:90:TYR:CD1	13:C1:91:LEU:N	2.82	0.42
25:D3:36:THR:HG23	25:D3:40:SER:OG	2.18	0.42
26:D4:41:ARG:HG2	26:D4:55:VAL:HG12	2.01	0.42
36:1:111:C:O2'	36:1:112:U:H5'	2.18	0.42
36:1:550:A:N6	36:1:551:A:N6	2.66	0.42
36:1:679:U:H2'	36:1:680:G:C8	2.54	0.42
36:1:790:U:H4'	41:L4:112:LYS:O	2.19	0.42
36:1:1101:G:H1'	44:L7:105:LEU:CD2	2.49	0.42
36:1:1246:G:H22	36:1:1265:U:H5	1.67	0.42
36:1:1524:A:C2	36:1:1527:C:C6	3.07	0.42
36:1:2288:G:N2	36:1:2289:U:C2	2.87	0.42
36:1:2512:C:C4	36:1:2513:U:O4	2.72	0.42
36:1:2579:G:O6	86:1:3919:OHX:N2	2.52	0.42
36:1:2726:C:O2'	36:1:2727:A:H2'	2.19	0.42
36:1:3210:A:H2'	36:1:3211:C:O4'	2.19	0.42
37:3:103:A:N1	37:3:104:A:C4	2.87	0.42
38:4:98:U:C2'	38:4:99:C:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:29:PRO:HB3	54:M8:25:TYR:HE2	1.84	0.42
42:L5:132:THR:HG21	42:L5:170:GLY:C	2.43	0.42
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.19	0.42
44:L7:159:GLN:O	44:L7:160:ARG:HB3	2.19	0.42
46:L9:161:LEU:O	46:L9:164:ILE:HG22	2.18	0.42
47:M0:91:VAL:O	47:M0:91:VAL:HG12	2.19	0.42
48:M1:91:LEU:HD23	48:M1:91:LEU:HA	1.87	0.42
51:M5:38:ARG:HB2	51:M5:62:TYR:CZ	2.54	0.42
51:M5:149:ASN:OD1	86:M5:303:OHX:N2	2.52	0.42
53:M7:70:THR:HG23	53:M7:72:GLN:H	1.84	0.42
56:N0:37:ALA:O	56:N0:40:ARG:HB2	2.19	0.42
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.34	0.42
59:N3:77:ILE:O	59:N3:100:GLY:HA2	2.19	0.42
61:N5:91:ASN:OD1	61:N5:93:TYR:HB2	2.18	0.42
62:N6:56:VAL:HG21	62:N6:104:LEU:HB3	2.01	0.42
72:O6:26:ILE:HD12	72:O6:27:SER:N	2.34	0.42
73:O7:76:ASN:O	73:O7:79:GLN:HG3	2.19	0.42
79:Q3:77:ALA:O	79:Q3:80:ARG:HB3	2.19	0.42
1:6:603:U:H2'	1:6:604:A:H8	1.84	0.42
1:6:639:U:OP1	9:s7:118:LEU:N	2.52	0.42
1:6:1157:A:C2	1:6:1160:A:C8	3.07	0.42
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.19	0.42
1:6:1584:G:H22	1:6:1611:A:P	2.40	0.42
1:6:1733:C:O2'	1:6:1734:U:H5'	2.19	0.42
6:s4:16:HIS:C	6:s4:16:HIS:ND1	2.76	0.42
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.73	0.42
9:s7:71:HIS:CE1	9:s7:131:PHE:CE1	3.07	0.42
11:s9:120:LYS:HD3	11:s9:120:LYS:O	2.19	0.42
11:s9:161:THR:HB	11:s9:162:SER:H	1.67	0.42
14:c2:46:ARG:HH21	33:e1:102:VAL:HG22	1.84	0.42
14:c2:58:LEU:HG	14:c2:126:TRP:CZ3	2.54	0.42
15:c3:18:TYR:HE1	24:d2:54:ASP:OD2	2.02	0.42
15:c3:151:ASN:O	86:c3:201:OHX:N3	2.52	0.42
26:d4:34:ASN:OD1	26:d4:62:THR:HG21	2.19	0.42
27:d5:81:ARG:HB2	27:d5:81:ARG:HH11	1.84	0.42
34:sR:44:SER:O	34:sR:58:VAL:HG13	2.18	0.42
36:5:58:G:H4'	51:m5:155:VAL:HG22	2.01	0.42
36:5:1019:G:N1	36:5:1020:G:O6	2.51	0.42
36:5:1063:G:N3	36:5:1066:G:O2'	2.49	0.42
36:5:1101:G:H2'	36:5:1102:A:O4'	2.19	0.42
36:5:1235:U:C4'	36:5:1236:G:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1257:C:HO2'	81:p0:39:HIS:CE1	2.36	0.42
36:5:1611:G:H2'	36:5:1612:A:H8	1.84	0.42
36:5:1790:G:H2'	36:5:1791:C:O4'	2.19	0.42
36:5:2567:C:H42	36:5:2568:C:H41	1.67	0.42
41:l4:3:ARG:CB	41:l4:22:LEU:H	2.28	0.42
44:l7:40:LYS:O	44:l7:44:ILE:HG13	2.19	0.42
47:m0:38:LYS:CG	47:m0:41:ALA:HB2	2.49	0.42
51:m5:15:GLN:HB3	72:o6:52:PRO:HD3	2.01	0.42
51:m5:118:SER:HB3	51:m5:132:VAL:HA	2.00	0.42
53:m7:88:VAL:O	53:m7:92:GLN:HG3	2.19	0.42
54:m8:178:ARG:HD2	54:m8:178:ARG:HA	1.83	0.42
60:n4:124:LYS:C	60:n4:126:GLU:H	2.26	0.42
63:n7:50:PRO:HB3	63:n7:66:THR:O	2.19	0.42
67:o1:14:ILE:HG13	67:o1:39:PHE:CD1	2.54	0.42
69:o3:81:VAL:HG22	69:o3:82:ARG:N	2.34	0.42
71:o5:46:THR:O	71:o5:50:SER:OG	2.30	0.42
72:o6:99:ARG:HG3	72:o6:99:ARG:H	1.59	0.42
78:q2:93:LEU:HD13	78:q2:93:LEU:O	2.18	0.42
79:q3:17:ARG:O	79:q3:19:GLY:N	2.47	0.42
79:q3:87:ARG:O	79:q3:90:VAL:HG22	2.19	0.42
82:m2:159:UNK:O	82:m2:162:UNK:N	2.52	0.42
1:2:67:A:O3'	1:2:68:A:H3'	2.19	0.42
1:2:217:A:H2'	1:2:217:A:OP1	2.19	0.42
1:2:636:A:H5''	24:D2:31:SER:HB3	2.01	0.42
1:2:726:C:H2'	1:2:727:U:C5	2.54	0.42
1:2:1370:U:O4	86:2:2120:OHX:N5	2.53	0.42
1:2:1388:A:C5	1:2:1411:A:C6	3.06	0.42
1:2:1479:A:H8	1:2:1479:A:O5'	2.01	0.42
1:2:1486:G:N7	1:2:1487:A:C8	2.88	0.42
1:2:1512:G:C6	1:2:1513:G:C6	3.07	0.42
1:2:1559:A:H5''	20:C8:135:GLY:HA3	2.01	0.42
10:S8:176:SER:C	10:S8:178:ARG:H	2.26	0.42
13:C1:139:VAL:HG12	13:C1:140:VAL:N	2.27	0.42
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.00	0.42
15:C3:55:ARG:HD3	29:D7:47:PHE:CD2	2.54	0.42
22:D0:63:LEU:HB3	31:D9:34:TYR:HE2	1.78	0.42
24:D2:94:LEU:HA	24:D2:95:PRO:HD3	1.86	0.42
26:D4:19:ALA:CB	26:D4:81:GLU:HG2	2.49	0.42
28:D6:64:LEU:HA	28:D6:65:PRO:HD3	1.76	0.42
36:1:299:G:H2'	36:1:300:G:O4'	2.19	0.42
36:1:338:A:OP1	41:L4:47:ARG:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:627:U:H4'	36:1:1399:A:H1'	2.00	0.42
36:1:641:C:OP1	64:N8:21:ARG:HB3	2.19	0.42
36:1:693:A:H2'	36:1:694:C:C6	2.54	0.42
36:1:693:A:H2'	36:1:694:C:H6	1.84	0.42
36:1:732:C:H2'	36:1:733:G:O4'	2.19	0.42
36:1:956:U:OP1	86:1:4121:OHX:N1	2.52	0.42
36:1:1375:G:O6	64:N8:10:LYS:HE2	2.18	0.42
36:1:1645:U:H2'	36:1:1646:G:H5'	2.00	0.42
36:1:2130:G:C6	36:1:2323:G:O6	2.71	0.42
36:1:2771:U:H2'	36:1:2772:C:O2	2.19	0.42
36:1:2801:A:O2'	36:1:2802:A:H2'	2.19	0.42
36:1:2842:U:C5	36:1:2843:U:C4	3.07	0.42
36:1:2883:U:H2'	36:1:2884:C:H6	1.83	0.42
36:1:2932:U:O2	36:1:2934:A:C8	2.72	0.42
36:1:3092:C:H6	36:1:3092:C:H2'	1.68	0.42
39:L2:81:GLY:N	79:Q3:65:ALA:O	2.42	0.42
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.85	0.42
40:L3:49:TYR:H	40:L3:79:VAL:HG23	1.84	0.42
40:L3:287:LYS:O	40:L3:290:ASP:HB3	2.19	0.42
42:L5:160:PHE:O	42:L5:180:PHE:HE1	2.01	0.42
46:L9:154:VAL:O	46:L9:155:SER:C	2.62	0.42
48:M1:6:GLN:NE2	48:M1:6:GLN:HA	2.34	0.42
48:M1:132:ASN:HA	48:M1:154:THR:HG21	2.01	0.42
55:M9:4:LEU:O	55:M9:7:GLN:N	2.52	0.42
56:N0:1:MET:HE2	56:N0:1:MET:HB3	1.71	0.42
56:N0:154:HIS:O	56:N0:154:HIS:CG	2.71	0.42
57:N1:11:THR:HG22	57:N1:55:LYS:HD2	2.01	0.42
62:N6:100:HIS:CE1	62:N6:102:SER:HB3	2.54	0.42
64:N8:40:HIS:CD2	64:N8:41:HIS:CE1	3.07	0.42
64:N8:88:ASP:O	64:N8:92:LYS:HG2	2.19	0.42
67:O1:5:LYS:O	67:O1:6:ASP:HB2	2.19	0.42
74:O8:46:ARG:NH2	74:O8:51:LEU:HB2	2.30	0.42
76:Q0:94:SER:OG	76:Q0:105:PRO:HA	2.19	0.42
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	2.51	0.42
1:6:162:A:H2'	1:6:163:G:C8	2.55	0.42
1:6:512:A:OP2	11:s9:170:GLY:HA3	2.19	0.42
1:6:1342:C:C2'	1:6:1343:U:H5'	2.48	0.42
1:6:1366:U:OP1	18:c6:30:LYS:HD3	2.19	0.42
1:6:1541:G:C6	1:6:1542:G:N1	2.86	0.42
1:6:1696:G:H2'	1:6:1698:G:C6	2.54	0.42
2:s0:88:LYS:O	2:s0:91:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:188:ASN:HB3	6:s4:191:ARG:HG3	2.01	0.42
8:s6:179:VAL:HA	8:s6:183:ARG:HH11	1.84	0.42
9:s7:21:ALA:O	9:s7:24:PHE:HB2	2.18	0.42
25:d3:76:LEU:HA	25:d3:76:LEU:HD23	1.74	0.42
28:d6:50:VAL:HA	28:d6:53:LEU:HB2	2.02	0.42
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.86	0.42
36:5:1349:G:H2'	36:5:1350:A:C8	2.54	0.42
36:5:1573:G:C5	36:5:1574:C:H1'	2.54	0.42
36:5:1604:G:H2'	36:5:1605:A:O4'	2.19	0.42
36:5:2413:A:O2'	36:5:2414:G:H5'	2.18	0.42
36:5:2950:G:C5	36:5:2979:U:C4	3.07	0.42
36:5:3261:C:O2'	36:5:3262:U:H5'	2.19	0.42
38:8:106:C:H5''	38:8:108:C:OP2	2.18	0.42
39:l2:209:HIS:ND1	39:l2:210:PRO:HD2	2.34	0.42
40:l3:151:ILE:O	40:l3:155:ALA:HB3	2.19	0.42
41:l4:119:ARG:NH1	41:l4:271:LYS:HB3	2.35	0.42
42:l5:163:LEU:HD21	42:l5:175:HIS:CD2	2.54	0.42
44:l7:55:TYR:CE2	44:l7:141:TYR:CE2	3.07	0.42
44:l7:99:PRO:HB3	44:l7:129:LEU:O	2.20	0.42
46:l9:77:ASN:N	46:l9:77:ASN:OD1	2.51	0.42
47:m0:57:LEU:HD13	47:m0:57:LEU:C	2.44	0.42
51:m5:36:ILE:HG13	51:m5:64:VAL:CG2	2.49	0.42
53:m7:32:THR:HG21	53:m7:87:SER:CB	2.49	0.42
53:m7:57:ALA:O	53:m7:59:PRO:HD3	2.20	0.42
54:m8:165:ILE:HD13	54:m8:166:LEU:N	2.32	0.42
56:n0:7:TYR:O	56:n0:28:ARG:HA	2.19	0.42
57:n1:27:LEU:HA	57:n1:27:LEU:HD22	1.67	0.42
63:n7:133:LYS:CE	63:n7:135:ARG:HD2	2.49	0.42
65:n9:51:ALA:O	65:n9:53:ALA:N	2.52	0.42
67:o1:102:LYS:HA	67:o1:102:LYS:HE3	1.99	0.42
1:2:296:U:H2'	1:2:297:U:C6	2.54	0.42
1:2:525:A:H2'	1:2:526:A:C8	2.55	0.42
1:2:1198:G:H4'	22:D0:72:ASN:O	2.19	0.42
1:2:1241:G:C6	1:2:1242:A:C6	3.07	0.42
1:2:1277:G:O3'	5:S3:183:GLY:HA3	2.20	0.42
1:2:1585:U:N3	1:2:1611:A:H2	2.08	0.42
1:2:1597:A:H2'	1:2:1598:U:O4'	2.19	0.42
1:2:1653:C:C2	1:2:1748:G:N2	2.87	0.42
1:2:1795:U:H5'	28:D6:79:ILE:CD1	2.49	0.42
2:S0:26:ALA:HB1	2:S0:29:VAL:CG1	2.48	0.42
3:S1:65:VAL:O	16:C4:34:SER:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:58:LEU:HA	23:D1:12:TYR:HE1	1.84	0.42
4:S2:58:LEU:HA	4:S2:58:LEU:HD23	1.66	0.42
4:S2:175:GLY:HA3	11:S9:53:ARG:NH2	2.34	0.42
6:S4:11:ARG:HB2	6:S4:28:ALA:N	2.34	0.42
7:S5:210:ALA:O	7:S5:213:LYS:N	2.52	0.42
8:S6:148:SER:OG	8:S6:150:GLU:HB2	2.19	0.42
9:S7:71:HIS:CE1	9:S7:131:PHE:HE1	2.38	0.42
10:S8:67:TRP:CD1	10:S8:70:GLU:HB2	2.53	0.42
15:C3:3:ARG:HD3	15:C3:3:ARG:HA	1.73	0.42
16:C4:15:GLY:C	16:C4:79:VAL:HG23	2.45	0.42
17:C5:33:PHE:C	17:C5:35:LYS:N	2.76	0.42
18:C6:10:PHE:O	18:C6:87:LYS:NZ	2.43	0.42
22:D0:80:GLU:OE1	31:D9:44:ARG:NH1	2.52	0.42
33:E1:144:CYS:O	33:E1:146:SER:N	2.51	0.42
34:SR:224:ASN:HB2	34:SR:231:MET:SD	2.59	0.42
36:1:246:U:H2'	36:1:247:C:C6	2.54	0.42
36:1:571:U:H2'	36:1:572:A:O4'	2.20	0.42
36:1:595:G:H2'	36:1:596:C:H6	1.83	0.42
36:1:781:G:O6	86:1:3933:OHX:N5	2.52	0.42
36:1:998:A:O2'	36:1:999:G:H5'	2.19	0.42
36:1:1343:A:N7	86:1:4136:OHX:N2	2.67	0.42
36:1:1461:A:H2'	36:1:1462:A:H8	1.82	0.42
36:1:1566:A:N6	36:1:1567:U:O2	2.53	0.42
36:1:1690:C:P	55:M9:64:ARG:HH12	2.43	0.42
36:1:2202:C:H5''	39:L2:226:SER:HB3	2.00	0.42
36:1:2217:U:H2'	36:1:2218:G:H8	1.84	0.42
36:1:2381:G:O2'	36:1:2382:G:H5'	2.19	0.42
36:1:2564:G:H2'	36:1:2565:U:O4'	2.19	0.42
36:1:2592:G:O2'	36:1:2593:A:O4'	2.37	0.42
36:1:2861:U:H2'	36:1:2862:U:O4'	2.19	0.42
36:1:3121:U:C1'	36:1:3122:A:H5''	2.49	0.42
36:1:3317:U:H5'	36:1:3318:G:C2	2.54	0.42
86:1:4023:OHX:N6	86:1:4143:OHX:N5	2.67	0.42
39:L2:126:LEU:HD13	39:L2:150:LEU:HD21	2.02	0.42
40:L3:37:ARG:HG2	40:L3:186:GLY:O	2.18	0.42
40:L3:287:LYS:HB2	40:L3:290:ASP:HB2	2.01	0.42
42:L5:95:TRP:CZ2	42:L5:161:GLY:HA2	2.55	0.42
42:L5:260:PHE:HD1	42:L5:264:GLN:NE2	2.16	0.42
47:M0:31:ILE:O	47:M0:32:ARG:HD3	2.20	0.42
50:M4:85:TRP:O	50:M4:90:VAL:HG12	2.19	0.42
52:M6:15:LEU:O	52:M6:16:VAL:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:97:ALA:O	52:M6:100:GLU:HB2	2.18	0.42
53:M7:67:ILE:HA	53:M7:67:ILE:HD12	1.57	0.42
57:N1:91:LEU:HD12	57:N1:96:ILE:HD11	2.00	0.42
61:N5:34:LEU:HD22	61:N5:35:PRO:HD2	2.01	0.42
66:O0:20:SER:OG	66:O0:20:SER:O	2.34	0.42
69:O3:89:LEU:HD23	69:O3:89:LEU:HA	1.69	0.42
70:O4:11:ASN:HA	70:O4:12:PRO:HD3	1.78	0.42
1:6:271:A:H5'	1:6:272:U:OP2	2.20	0.42
1:6:454:U:C2	6:s4:66:MET:HG3	2.54	0.42
1:6:509:G:H2'	1:6:510:G:C1'	2.48	0.42
1:6:523:G:H5'	26:d4:60:PHE:O	2.18	0.42
1:6:874:C:O2'	1:6:875:G:H5'	2.19	0.42
1:6:1309:C:O2'	1:6:1401:A:N1	2.48	0.42
1:6:1516:A:H8	22:d0:58:LEU:HD23	1.83	0.42
1:6:1799:U:O3'	1:6:1800:A:H2'	2.19	0.42
2:s0:103:THR:HA	2:s0:104:PRO:HD2	1.72	0.42
4:s2:96:THR:OG1	4:s2:97:ARG:N	2.53	0.42
4:s2:178:ILE:H	4:s2:178:ILE:HD12	1.85	0.42
6:s4:123:LEU:HD12	6:s4:161:LYS:HA	2.00	0.42
7:s5:92:ARG:HG2	7:s5:92:ARG:NH1	2.27	0.42
9:s7:129:LEU:O	9:s7:131:PHE:N	2.53	0.42
13:c1:5:LEU:HD22	13:c1:5:LEU:H	1.84	0.42
19:c7:23:LYS:HG2	34:sR:198:ASN:HD21	1.83	0.42
19:c7:41:ILE:HG22	19:c7:43:SER:H	1.84	0.42
20:c8:114:GLU:HA	20:c8:117:LYS:HB2	2.01	0.42
21:c9:136:ALA:O	21:c9:140:LEU:HB2	2.19	0.42
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.52	0.42
36:5:584:G:O6	86:5:4014:OHX:N1	2.53	0.42
36:5:1016:C:N4	48:m1:174:LYS:HE3	2.34	0.42
36:5:1742:U:H2'	36:5:1743:G:C8	2.54	0.42
36:5:2147:A:OP2	39:l2:200:ARG:NH1	2.52	0.42
36:5:2341:A:P	40:l3:247:ARG:NH2	2.92	0.42
36:5:2931:C:H2'	36:5:2932:U:O4'	2.20	0.42
86:5:4004:OHX:N6	86:5:4195:OHX:N5	2.68	0.42
38:8:48:A:C2	38:8:51:G:N1	2.87	0.42
42:l5:208:MET:HG2	42:l5:223:PHE:CE2	2.54	0.42
44:l7:73:GLY:O	57:n1:143:THR:HB	2.18	0.42
46:l9:120:ASP:OD1	46:l9:124:ARG:NH2	2.53	0.42
47:m0:12:GLN:HA	47:m0:59:GLN:HE21	1.84	0.42
54:m8:94:PHE:CE2	64:n8:119:PRO:HD3	2.53	0.42
55:m9:164:LEU:O	55:m9:168:ALA:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:n0:155:ARG:HH21	56:n0:155:ARG:CG	2.32	0.42
59:n3:17:LEU:HD23	59:n3:17:LEU:HA	1.80	0.42
62:n6:39:LEU:HD12	62:n6:43:TYR:CE2	2.54	0.42
67:o1:20:LEU:HD23	67:o1:20:LEU:HA	1.55	0.42
69:o3:48:ARG:HG2	69:o3:103:TYR:O	2.18	0.42
72:o6:66:GLU:HA	72:o6:69:ALA:HB3	2.02	0.42
74:o8:56:ILE:HG21	74:o8:61:LYS:HB2	2.00	0.42
74:o8:61:LYS:HB3	74:o8:61:LYS:HE3	1.77	0.42
1:2:455:C:H3'	1:2:456:A:H8	1.84	0.42
1:2:629:U:C4	1:2:630:A:N7	2.88	0.42
1:2:1073:G:H2'	1:2:1074:G:H5''	2.02	0.42
1:2:1275:A:H2'	5:S3:141:LYS:HZ3	1.84	0.42
1:2:1520:U:H5''	21:C9:75:LYS:NZ	2.34	0.42
1:2:1642:G:O3'	77:Q1:9:ARG:NH2	2.52	0.42
7:S5:42:LEU:HB2	7:S5:47:SER:HA	2.00	0.42
9:S7:19:GLN:H	9:S7:19:GLN:HG2	1.61	0.42
9:S7:162:ILE:HB	9:S7:169:PHE:HE2	1.85	0.42
10:S8:38:ILE:HD11	10:S8:78:ILE:HB	2.01	0.42
18:C6:44:LEU:O	18:C6:47:LYS:HB2	2.20	0.42
19:C7:79:GLU:HA	19:C7:82:ASP:OD2	2.20	0.42
21:C9:100:ILE:HD13	21:C9:100:ILE:HA	1.85	0.42
21:C9:105:LEU:HD23	21:C9:105:LEU:HA	1.70	0.42
30:D8:32:PHE:CZ	30:D8:38:ARG:HD2	2.54	0.42
34:SR:69:GLN:O	34:SR:83:ALA:HB3	2.19	0.42
36:1:13:A:H5''	36:1:13:A:C8	2.47	0.42
36:1:26:A:C4	36:1:330:G:C8	3.07	0.42
36:1:197:G:N2	36:1:372:A:C8	2.87	0.42
36:1:960:U:O2'	36:1:961:C:H5'	2.19	0.42
36:1:1668:G:N1	36:1:1669:C:C2	2.88	0.42
36:1:2664:C:H2'	36:1:2665:U:C6	2.55	0.42
36:1:3077:A:N6	36:1:3080:G:C5	2.87	0.42
37:3:120:C:H42	42:L5:262:LYS:HD3	1.83	0.42
38:4:11:C:C4	38:4:12:A:N7	2.87	0.42
38:4:23:U:H1'	62:N6:17:LYS:HG2	2.02	0.42
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.34	0.42
44:L7:120:THR:O	44:L7:121:LYS:C	2.63	0.42
44:L7:123:THR:O	44:L7:126:LEU:HB2	2.19	0.42
44:L7:132:PRO:HA	44:L7:229:PHE:CG	2.55	0.42
46:L9:93:VAL:HG22	76:Q0:82:LEU:HD13	2.02	0.42
48:M1:91:LEU:HD12	48:M1:163:PHE:CE2	2.54	0.42
56:N0:139:TYR:CE2	56:N0:140:VAL:HG23	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:111:ALA:O	57:N1:115:LYS:HG3	2.19	0.42
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.55	0.42
61:N5:113:LEU:C	61:N5:113:LEU:HD12	2.45	0.42
63:N7:10:VAL:HB	63:N7:83:THR:HG21	2.01	0.42
68:O2:31:ASN:O	68:O2:32:TRP:C	2.60	0.42
74:O8:17:ARG:HB2	74:O8:20:VAL:CG2	2.48	0.42
79:Q3:29:LEU:HA	79:Q3:32:GLN:HB2	2.00	0.42
1:6:112:A:C6	1:6:113:U:O4	2.72	0.42
1:6:192:U:H1'	1:6:193:U:C5	2.55	0.42
1:6:474:A:OP1	11:s9:145:SER:OG	2.33	0.42
1:6:475:A:H2'	1:6:476:U:O4'	2.19	0.42
1:6:542:A:H1'	1:6:543:C:OP1	2.19	0.42
1:6:543:C:O2	1:6:543:C:O4'	2.38	0.42
1:6:677:G:O2'	1:6:678:A:C4	2.71	0.42
1:6:794:U:H4'	1:6:795:U:OP2	2.20	0.42
1:6:825:U:O2'	1:6:826:U:H6	2.02	0.42
1:6:889:U:H4'	1:6:989:U:OP1	2.18	0.42
1:6:1138:A:H2'	1:6:1139:A:C8	2.54	0.42
1:6:1142:A:N6	1:6:1143:A:C6	2.87	0.42
1:6:1172:G:H21	21:c9:88:VAL:CG2	2.31	0.42
1:6:1499:G:H2'	1:6:1500:C:C6	2.54	0.42
1:6:1796:C:H5'	1:6:1797:A:N7	2.34	0.42
3:s1:134:VAL:HG12	3:s1:218:LEU:HB2	2.01	0.42
9:s7:108:GLN:HE21	9:s7:108:GLN:HB2	1.67	0.42
11:s9:110:GLN:HA	11:s9:129:ILE:HD13	2.00	0.42
12:c0:6:GLU:HA	12:c0:9:ASN:HB2	2.02	0.42
17:c5:44:ARG:NH2	17:c5:82:ASN:O	2.43	0.42
17:c5:60:LEU:HD23	17:c5:60:LEU:HA	1.75	0.42
20:c8:17:LEU:O	20:c8:20:THR:N	2.35	0.42
20:c8:108:LYS:HA	20:c8:108:LYS:HD3	1.86	0.42
25:d3:23:ARG:HG3	25:d3:23:ARG:HH11	1.85	0.42
26:d4:44:LEU:HA	26:d4:47:VAL:HG13	2.00	0.42
28:d6:12:LYS:HB3	28:d6:12:LYS:NZ	2.35	0.42
28:d6:37:LYS:C	28:d6:38:ARG:HE	2.27	0.42
34:sR:37:SER:HB3	34:sR:39:ASP:OD1	2.20	0.42
34:sR:115:ILE:HB	34:sR:122:ILE:HG12	2.01	0.42
36:5:41:G:H4'	36:5:2410:U:H2'	2.02	0.42
36:5:179:C:H2'	36:5:180:C:C6	2.54	0.42
36:5:372:A:C6	36:5:373:A:C6	3.08	0.42
36:5:687:U:H5	49:m3:36:ARG:CZ	2.32	0.42
36:5:897:U:H2'	36:5:898:U:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:936:A:OP1	64:n8:28:HIS:CD2	2.72	0.42
36:5:1039:U:H2'	36:5:1040:A:C8	2.54	0.42
36:5:1258:U:O2	36:5:1260:A:H8	2.02	0.42
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.66	0.42
36:5:1449:A:C2	36:5:2356:A:C4	3.08	0.42
36:5:1549:U:OP2	36:5:1549:U:H6	2.02	0.42
36:5:1730:G:C5	66:o0:28:LYS:HB2	2.54	0.42
36:5:1769:G:C2	36:5:1770:G:C8	3.07	0.42
36:5:1792:C:H5''	36:5:1793:C:OP2	2.20	0.42
36:5:2178:A:H5''	39:l2:132:ASN:OD1	2.19	0.42
36:5:2271:A:N7	36:5:2272:G:C6	2.87	0.42
36:5:2353:G:C6	36:5:2354:C:C4	3.08	0.42
36:5:2946:A:H5''	36:5:2947:G:H5'	2.01	0.42
36:5:2961:G:C6	36:5:2962:U:C4	3.07	0.42
36:5:3215:A:H5'	50:m4:121:MET:HE1	2.01	0.42
36:5:3341:U:H5''	36:5:3342:A:OP2	2.19	0.42
36:5:3365:U:O2'	36:5:3366:G:H5'	2.19	0.42
40:l3:41:VAL:HG23	40:l3:186:GLY:H	1.84	0.42
40:l3:50:LYS:HE2	40:l3:328:ILE:HG22	2.02	0.42
40:l3:232:ARG:HG2	40:l3:233:TRP:CD1	2.55	0.42
40:l3:322:ILE:HA	40:l3:322:ILE:HD12	1.84	0.42
44:l7:40:LYS:HE2	44:l7:170:GLU:OE1	2.19	0.42
51:m5:21:PHE:CD2	51:m5:22:LEU:HD13	2.52	0.42
52:m6:130:LYS:HG3	52:m6:131:PRO:CD	2.49	0.42
53:m7:3:ARG:HH21	53:m7:3:ARG:HG2	1.83	0.42
53:m7:33:ALA:O	53:m7:35:ALA:N	2.52	0.42
53:m7:119:VAL:HA	53:m7:145:HIS:O	2.19	0.42
57:n1:96:ILE:HA	57:n1:96:ILE:HD13	1.70	0.42
62:n6:42:GLN:O	62:n6:125:LYS:HG3	2.20	0.42
62:n6:82:VAL:O	62:n6:84:LYS:N	2.52	0.42
70:o4:78:GLY:O	70:o4:80:ARG:N	2.52	0.42
78:q2:78:LYS:O	78:q2:78:LYS:HG2	2.16	0.42
79:q3:49:ARG:CD	79:q3:50:GLY:H	2.33	0.42
1:2:19:A:C2	1:2:20:G:C4	3.08	0.42
1:2:144:U:C2	1:2:145:A:C8	3.08	0.42
1:2:275:C:H2'	1:2:276:C:C5	2.54	0.42
1:2:641:G:N2	1:2:693:U:O2	2.49	0.42
1:2:740:A:H8	1:2:740:A:O5'	2.03	0.42
1:2:1476:C:H2'	1:2:1477:G:H8	1.83	0.42
2:S0:57:LEU:HD21	2:S0:177:LEU:HA	2.02	0.42
2:S0:119:ARG:HH21	4:S2:240:LEU:HD23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.35	0.42
4:S2:106:ASP:OD1	4:S2:107:SER:N	2.52	0.42
10:S8:9:HIS:CD2	10:S8:9:HIS:C	2.97	0.42
11:S9:141:VAL:HG12	11:S9:143:ILE:H	1.84	0.42
15:C3:99:ARG:O	15:C3:102:LEU:N	2.47	0.42
20:C8:116:LEU:HD13	20:C8:116:LEU:HA	1.80	0.42
22:D0:100:VAL:O	22:D0:104:THR:HG23	2.20	0.42
25:D3:89:ASN:HB2	25:D3:92:CYS:SG	2.59	0.42
30:D8:18:ARG:HA	30:D8:26:THR:HA	2.02	0.42
34:SR:84:SER:OG	34:SR:85:TRP:N	2.49	0.42
34:SR:121:MET:HE3	34:SR:121:MET:HB2	1.92	0.42
34:SR:202:LEU:HA	34:SR:212:ALA:O	2.20	0.42
34:SR:295:SER:HB2	34:SR:300:THR:O	2.19	0.42
35:SM:61:ILE:HD12	35:SM:62:ARG:N	2.34	0.42
36:1:396:A:O2'	36:1:399:A:OP1	2.33	0.42
36:1:1054:A:H5''	36:1:2637:A:N6	2.34	0.42
36:1:1204:A:H2'	36:1:1205:A:H5'	2.02	0.42
36:1:1784:G:H2'	36:1:1785:U:H6	1.84	0.42
36:1:2143:A:H3'	36:1:2143:A:C8	2.54	0.42
36:1:2242:A:H5'	39:L2:243:THR:HG23	2.01	0.42
36:1:2267:C:H2'	36:1:2268:U:O4'	2.20	0.42
36:1:2656:A:C4	36:1:2658:G:N7	2.88	0.42
36:1:2854:U:H2'	36:1:2855:U:H6	1.84	0.42
36:1:2856:G:N7	47:M0:7:ARG:NH2	2.68	0.42
36:1:2988:C:O4'	40:L3:260:VAL:HB	2.19	0.42
36:1:3139:A:OP1	40:L3:274:SER:HB2	2.19	0.42
38:4:58:G:O6	73:O7:63:ARG:NH1	2.52	0.42
40:L3:219:ALA:HB3	40:L3:329:PRO:HB2	2.01	0.42
41:L4:36:HIS:CD2	41:L4:36:HIS:C	2.96	0.42
49:M3:187:ALA:CA	49:M3:190:LYS:HB3	2.45	0.42
53:M7:132:ALA:O	53:M7:133:HIS:HB2	2.20	0.42
55:M9:59:SER:HB2	55:M9:61:SER:HB3	2.02	0.42
69:O3:39:GLN:C	69:O3:41:ALA:N	2.77	0.42
70:O4:71:THR:HG23	70:O4:78:GLY:H	1.84	0.42
71:O5:31:LEU:HA	71:O5:31:LEU:HD12	1.76	0.42
73:O7:5:THR:HA	73:O7:8:PHE:HD2	1.85	0.42
73:O7:67:LEU:HD23	73:O7:70:VAL:HG21	2.01	0.42
1:6:23:G:C6	1:6:24:U:N3	2.88	0.42
1:6:119:A:H2'	1:6:120:U:O4'	2.20	0.42
1:6:542:A:H2'	1:6:542:A:OP2	2.20	0.42
1:6:563:U:C4	1:6:564:G:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:607:G:OP2	1:6:613:G:N1	2.51	0.42
1:6:809:A:C6	1:6:810:G:O6	2.73	0.42
1:6:875:G:H4'	1:6:936:G:O2'	2.19	0.42
1:6:1066:C:H2'	1:6:1067:C:H6	1.84	0.42
1:6:1079:U:C4	1:6:1080:U:C4	3.07	0.42
1:6:1283:U:H2'	1:6:1284:C:C5	2.54	0.42
1:6:1512:G:C4	1:6:1513:G:C8	3.08	0.42
1:6:1660:A:H2'	1:6:1661:U:C6	2.54	0.42
7:s5:56:ALA:O	7:s5:57:SER:OG	2.33	0.42
8:s6:48:TYR:OH	8:s6:119:GLN:O	2.20	0.42
9:s7:20:VAL:HG13	9:s7:81:LEU:HD21	2.00	0.42
10:s8:42:ARG:HB3	10:s8:59:ARG:HB2	2.01	0.42
16:c4:66:ASP:O	16:c4:69:ALA:HB3	2.20	0.42
16:c4:83:ILE:O	16:c4:118:VAL:HG22	2.19	0.42
20:c8:27:LYS:HB3	20:c8:27:LYS:HE2	1.72	0.42
22:d0:15:GLN:O	22:d0:16:GLN:HB2	2.19	0.42
25:d3:141:GLU:OE1	25:d3:144:ARG:NH1	2.48	0.42
26:d4:36:SER:HB3	26:d4:39:GLU:HG3	2.01	0.42
36:5:48:A:C8	36:5:50:U:C2	3.07	0.42
36:5:1119:C:H2'	36:5:1120:A:H8	1.85	0.42
36:5:1424:C:H2'	36:5:1425:U:O4'	2.20	0.42
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.52	0.42
36:5:1743:G:H2'	36:5:1744:G:H8	1.83	0.42
36:5:2101:C:HO2'	36:5:2102:U:P	2.39	0.42
36:5:2320:A:OP2	86:5:4069:OHX:N5	2.53	0.42
38:8:56:G:H2'	38:8:57:C:O4'	2.20	0.42
41:l4:62:ALA:HB3	41:l4:90:PHE:CE2	2.54	0.42
41:l4:346:LYS:HD2	41:l4:347:THR:N	2.33	0.42
42:l5:179:ARG:HD3	42:l5:179:ARG:HA	1.80	0.42
42:l5:210:GLU:O	42:l5:214:ASP:HB2	2.19	0.42
43:l6:38:THR:HA	43:l6:90:LYS:HG3	2.00	0.42
47:m0:169:LYS:H	47:m0:169:LYS:HD2	1.84	0.42
48:m1:37:LEU:HA	48:m1:37:LEU:HD23	1.35	0.42
55:m9:5:ARG:HG3	55:m9:6:THR:N	2.35	0.42
58:n2:27:VAL:HG11	58:n2:92:TRP:CZ3	2.54	0.42
58:n2:55:THR:HG22	58:n2:57:THR:HG22	2.00	0.42
61:n5:103:TYR:O	61:n5:105:VAL:HG23	2.20	0.42
66:o0:101:LEU:HD22	66:o0:101:LEU:N	2.32	0.42
71:o5:32:LYS:O	71:o5:36:LEU:HD23	2.19	0.42
74:o8:43:PHE:CZ	74:o8:66:ILE:HG12	2.54	0.42
74:o8:54:LEU:HG	74:o8:56:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:12:CYS:CB	78:q2:17:CYS:HB3	2.48	0.42
1:2:226:A:C2'	1:2:227:U:H5'	2.50	0.42
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.53	0.42
1:2:542:A:C2	32:E0:28:LYS:HD2	2.55	0.42
1:2:545:A:OP1	32:E0:31:LYS:HE3	2.18	0.42
1:2:850:A:C2	1:2:851:U:C2	3.07	0.42
1:2:852:C:OP1	55:M9:172:ARG:HD3	2.19	0.42
1:2:1083:G:O2'	1:2:1094:G:O2'	2.36	0.42
1:2:1105:C:H41	25:D3:4:GLY:HA3	1.84	0.42
1:2:1339:C:O2'	1:2:1340:U:OP1	2.37	0.42
1:2:1368:G:C4	1:2:1369:U:C5	3.07	0.42
1:2:1431:C:H3'	1:2:1432:U:H5'	2.02	0.42
1:2:1474:G:P	7:S5:109:LYS:HZ1	2.43	0.42
1:2:1514:U:O2'	5:S3:5:ILE:O	2.38	0.42
1:2:1575:G:H2'	1:2:1576:A:H8	1.84	0.42
2:S0:21:ASN:HB3	2:S0:24:LEU:HD13	2.01	0.42
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	2.02	0.42
4:S2:147:ASN:HB3	23:D1:4:ASP:HA	2.01	0.42
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.85	0.42
7:S5:131:GLN:O	7:S5:131:GLN:HG3	2.18	0.42
8:S6:139:ASN:O	8:S6:142:ARG:HB2	2.20	0.42
9:S7:89:HIS:CD2	9:S7:165:LYS:HG2	2.54	0.42
10:S8:43:ILE:HA	10:S8:57:ALA:HA	2.01	0.42
10:S8:79:ALA:N	10:S8:103:GLN:O	2.50	0.42
11:S9:109:LEU:HD13	11:S9:129:ILE:CD1	2.50	0.42
11:S9:174:ARG:HA	11:S9:174:ARG:HE	1.85	0.42
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.55	0.42
13:C1:22:ASN:HA	13:C1:23:PRO:HD3	1.72	0.42
24:D2:78:ARG:H	24:D2:78:ARG:HG2	1.65	0.42
25:D3:127:VAL:HG23	25:D3:128:SER:N	2.35	0.42
35:SM:68:ARG:O	35:SM:69:ARG:C	2.62	0.42
36:1:223:U:HO2'	36:1:224:C:P	2.43	0.42
36:1:547:G:H4'	36:1:548:G:OP2	2.14	0.42
36:1:849:C:H2'	36:1:850:U:H6	1.84	0.42
36:1:1064:A:N6	36:1:1096:U:N3	2.63	0.42
36:1:1719:G:H2'	36:1:1720:U:O4'	2.19	0.42
36:1:1844:C:H42	36:1:1851:G:H1	1.66	0.42
36:1:2663:G:H4'	42:L5:152:ARG:NH1	2.35	0.42
36:1:3119:U:OP2	86:1:3884:OHX:N4	2.53	0.42
36:1:3193:C:H2'	36:1:3194:C:H6	1.85	0.42
36:1:3284:G:H2'	36:1:3285:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3326:G:C4	36:1:3327:G:C8	3.08	0.42
36:1:3387:U:H2'	36:1:3388:C:C6	2.54	0.42
37:3:106:U:OP2	37:3:106:U:H6	2.03	0.42
38:4:45:C:OP1	75:O9:12:LYS:NZ	2.52	0.42
41:L4:22:LEU:HA	41:L4:23:PRO:HD3	1.71	0.42
41:L4:144:LYS:HA	86:L4:404:OHX:N2	2.34	0.42
41:L4:206:LEU:HD12	41:L4:248:VAL:HG22	2.02	0.42
41:L4:258:LEU:HD12	41:L4:258:LEU:HA	1.87	0.42
42:L5:268:GLU:O	42:L5:268:GLU:HG3	2.19	0.42
44:L7:40:LYS:O	44:L7:44:ILE:HG13	2.19	0.42
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.53	0.42
45:L8:156:ASP:O	45:L8:157:VAL:HB	2.20	0.42
45:L8:158:ASP:HB3	45:L8:159:PRO:HD3	2.01	0.42
50:M4:50:LYS:HD3	50:M4:85:TRP:HD1	1.83	0.42
52:M6:147:TRP:HE1	52:M6:149:TYR:HB2	1.84	0.42
53:M7:95:LEU:HD23	53:M7:95:LEU:HA	1.65	0.42
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.54	0.42
63:N7:93:LYS:HA	63:N7:93:LYS:HD3	1.83	0.42
64:N8:13:GLY:O	64:N8:14:HIS:ND1	2.45	0.42
74:O8:26:LYS:HB3	74:O8:42:LYS:HB2	2.02	0.42
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.20	0.42
1:6:228:G:H22	1:6:237:C:H42	1.67	0.42
1:6:329:G:H2'	1:6:330:G:H8	1.84	0.42
1:6:380:U:C2	11:s9:5:PRO:HG3	2.54	0.42
1:6:1071:U:H2'	1:6:1072:C:C6	2.55	0.42
1:6:1215:C:H2'	1:6:1216:C:C6	2.54	0.42
1:6:1325:A:H2'	1:6:1326:A:C8	2.55	0.42
1:6:1759:C:H2'	1:6:1760:G:O4'	2.20	0.42
2:s0:42:PRO:CD	19:c7:104:ASN:HD21	2.32	0.42
2:s0:92:HIS:CD2	2:s0:195:TRP:HH2	2.38	0.42
2:s0:146:LEU:HA	2:s0:160:ILE:O	2.20	0.42
4:s2:44:LEU:HD23	4:s2:44:LEU:HA	1.58	0.42
4:s2:166:THR:O	4:s2:166:THR:OG1	2.30	0.42
5:s3:113:LEU:HD13	5:s3:113:LEU:HA	1.90	0.42
7:s5:162:VAL:HG23	7:s5:166:ARG:HB3	2.01	0.42
18:c6:5:PRO:HB2	18:c6:96:TYR:CE2	2.55	0.42
20:c8:101:LEU:HD23	20:c8:101:LEU:HA	1.71	0.42
25:d3:24:TRP:CH2	25:d3:34:LEU:HD21	2.55	0.42
34:sR:107:LYS:HB2	34:sR:128:ASP:CB	2.49	0.42
34:sR:145:LEU:H	34:sR:145:LEU:HG	1.59	0.42
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:82:C:OP1	51:m5:198:SER:OG	2.24	0.42
36:5:353:G:O6	73:o7:52:LYS:HE2	2.20	0.42
36:5:574:U:H2'	36:5:575:G:O4'	2.19	0.42
36:5:1123:U:H2'	36:5:1124:U:H5'	2.01	0.42
36:5:1313:G:H2'	36:5:1314:C:H6	1.84	0.42
36:5:1613:A:H2'	36:5:1614:C:H6	1.85	0.42
36:5:1895:A:O2'	36:5:3053:G:H4'	2.20	0.42
36:5:1927:G:OP1	79:q3:8:VAL:HG22	2.19	0.42
36:5:2514:U:H6	36:5:2514:U:OP1	2.02	0.42
36:5:2647:A:H4'	47:m0:22:TYR:HB3	2.02	0.42
36:5:3188:G:C2	36:5:3205:G:N1	2.87	0.42
36:5:3234:A:OP2	36:5:3234:A:C8	2.71	0.42
36:5:3289:G:H4'	36:5:3290:G:OP1	2.19	0.42
88:5:4248:BLS:HN6	88:5:4248:BLS:H102	1.85	0.42
38:8:94:C:H3'	73:o7:72:ARG:NH1	2.34	0.42
40:l3:121:ASN:O	40:l3:122:TRP:C	2.62	0.42
40:l3:128:LYS:O	40:l3:129:ALA:C	2.62	0.42
44:l7:239:LEU:O	44:l7:240:VAL:C	2.63	0.42
46:l9:13:PRO:HG2	46:l9:16:VAL:CG1	2.50	0.42
47:m0:113:GLN:HB3	86:m0:303:OHX:N4	2.34	0.42
51:m5:15:GLN:HA	51:m5:20:ARG:HD2	2.02	0.42
52:m6:20:ALA:HB3	52:m6:87:MET:HE1	2.02	0.42
57:n1:34:TYR:CE1	57:n1:98:HIS:NE2	2.87	0.42
57:n1:154:VAL:HA	57:n1:155:PRO:HD3	1.83	0.42
62:n6:32:SER:HA	62:n6:50:ILE:H	1.84	0.42
69:o3:91:ALA:C	69:o3:93:THR:N	2.74	0.42
71:o5:78:LYS:HA	71:o5:81:ARG:HE	1.85	0.42
72:o6:93:ILE:O	72:o6:96:ALA:HB3	2.20	0.42
77:q1:16:LYS:HB3	77:q1:16:LYS:HE2	1.62	0.42
81:p0:45:LEU:HD22	81:p0:49:ALA:HB3	2.02	0.42
81:p0:188:VAL:O	81:p0:189:GLN:HG2	2.19	0.42
1:2:7:G:N7	4:S2:205:ARG:NH1	2.68	0.42
1:2:147:A:C6	1:2:148:A:C2	3.08	0.42
1:2:208:U:H2'	1:2:209:U:C6	2.54	0.42
1:2:750:U:H2'	1:2:751:G:O4'	2.20	0.42
1:2:817:A:C6	1:2:818:C:N4	2.88	0.42
1:2:1182:U:O2	1:2:1182:U:H2'	2.18	0.42
1:2:1297:G:O2'	1:2:1299:G:N7	2.48	0.42
1:2:1659:A:C2	1:2:1660:A:C5	3.07	0.42
2:S0:11:PRO:O	2:S0:15:GLN:HG3	2.20	0.42
3:S1:117:TRP:HD1	3:S1:152:ARG:O	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.55	0.42
5:S3:78:LYS:HZ1	12:C0:33:GLU:HG2	1.85	0.42
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.37	0.42
9:S7:60:ILE:HD12	9:S7:92:PHE:CZ	2.55	0.42
13:C1:71:LEU:HD22	13:C1:88:ARG:NH1	2.35	0.42
14:C2:27:ALA:O	14:C2:31:VAL:HG23	2.20	0.42
18:C6:29:ILE:HG23	18:C6:65:ILE:HG21	2.02	0.42
28:D6:10:ARG:NH1	28:D6:36:ILE:HA	2.34	0.42
28:D6:44:ILE:HD12	28:D6:45:VAL:HG13	2.00	0.42
30:D8:14:LYS:O	30:D8:28:VAL:HG13	2.19	0.42
34:SR:133:VAL:O	34:SR:141:LEU:HB2	2.20	0.42
34:SR:134:TRP:CZ3	34:SR:140:CYS:HB2	2.54	0.42
34:SR:283:LYS:HB2	34:SR:283:LYS:HE3	1.67	0.42
36:1:973:A:H2'	36:1:974:G:O4'	2.19	0.42
36:1:1054:A:H5''	36:1:2637:A:H61	1.85	0.42
36:1:1233:G:N1	36:1:1234:G:O6	2.52	0.42
36:1:1388:U:O2'	68:O2:99:ASN:HB2	2.19	0.42
36:1:1456:A:H5'	67:O1:26:LYS:HG2	2.01	0.42
36:1:2218:G:H2'	36:1:2219:A:C8	2.55	0.42
36:1:2257:C:H2'	36:1:2258:U:C6	2.55	0.42
36:1:2703:A:H62	42:L5:23:ARG:HG2	1.85	0.42
36:1:2794:G:N7	86:1:3927:OHX:N2	2.67	0.42
36:1:2794:G:C5	36:1:2795:U:C4	3.06	0.42
36:1:2894:C:OP1	46:L9:168:ARG:NH2	2.52	0.42
36:1:3039:C:OP1	40:L3:65:SER:OG	2.29	0.42
36:1:3321:C:H2'	36:1:3322:A:O4'	2.19	0.42
39:L2:80:GLU:HG3	79:Q3:66:GLY:HA2	2.00	0.42
41:L4:281:ILE:HG13	54:M8:29:LEU:HD21	2.02	0.42
44:L7:53:LYS:O	44:L7:54:GLU:C	2.62	0.42
49:M3:172:LEU:HA	49:M3:172:LEU:HD23	1.81	0.42
55:M9:176:ARG:HD3	55:M9:176:ARG:HA	1.68	0.42
61:N5:91:ASN:CG	61:N5:94:GLN:HG3	2.45	0.42
68:O2:8:LYS:HE3	68:O2:8:LYS:HB2	1.82	0.42
68:O2:24:ARG:HG2	68:O2:25:TYR:CE1	2.55	0.42
73:O7:65:ARG:HH11	73:O7:65:ARG:HG3	1.84	0.42
1:6:140:A:OP2	1:6:140:A:H4'	2.20	0.42
1:6:694:U:OP2	1:6:694:U:H6	2.02	0.42
1:6:1139:A:C5	1:6:1140:G:C8	3.07	0.42
1:6:1360:A:O3'	1:6:1361:U:H4'	2.19	0.42
1:6:1572:G:H1'	7:s5:185:ARG:NH1	2.35	0.42
2:s0:50:VAL:HA	2:s0:53:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:135:LEU:HD11	3:s1:176:VAL:HG11	2.01	0.42
6:s4:92:LEU:HB2	6:s4:95:THR:HG21	2.02	0.42
7:s5:39:GLU:HB3	7:s5:40:ILE:H	1.67	0.42
8:s6:20:ASP:OD2	8:s6:23:ARG:N	2.42	0.42
8:s6:196:ARG:O	8:s6:199:GLN:HB2	2.19	0.42
9:s7:39:ARG:CZ	55:m9:189:ALA:HB3	2.49	0.42
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	2.01	0.42
11:s9:65:LYS:HD3	11:s9:65:LYS:HA	1.94	0.42
11:s9:123:HIS:O	11:s9:124:HIS:C	2.62	0.42
12:c0:49:LEU:HB3	12:c0:55:VAL:CG1	2.50	0.42
16:c4:47:LYS:HB3	16:c4:62:LEU:HD23	2.01	0.42
17:c5:86:VAL:HB	17:c5:87:PRO:HD2	2.02	0.42
18:c6:40:GLU:OE2	18:c6:45:ARG:NH2	2.50	0.42
19:c7:29:GLN:HE21	19:c7:29:GLN:HB2	1.71	0.42
21:c9:70:GLN:CD	21:c9:70:GLN:N	2.77	0.42
24:d2:73:GLY:HA3	24:d2:128:PHE:CE1	2.55	0.42
28:d6:36:ILE:HD12	28:d6:36:ILE:N	2.35	0.42
29:d7:57:GLU:HG3	29:d7:58:SER:N	2.34	0.42
34:sR:23:LEU:HD22	34:sR:33:LEU:HD11	2.00	0.42
34:sR:111:MET:HE3	34:sR:111:MET:HB3	1.81	0.42
36:5:528:U:H2'	36:5:529:A:H8	1.82	0.42
36:5:651:G:C6	36:5:652:G:C6	3.08	0.42
36:5:685:G:OP1	49:m3:35:ARG:NH1	2.53	0.42
36:5:846:A:OP1	36:5:846:A:H8	2.02	0.42
36:5:914:A:O2'	36:5:2146:C:H4'	2.19	0.42
36:5:1202:A:N6	36:5:1301:A:N9	2.67	0.42
36:5:1423:C:H1'	43:l6:5:LYS:NZ	2.34	0.42
36:5:1487:G:C1'	70:o4:6:THR:HG21	2.49	0.42
36:5:1673:G:C5	36:5:1775:G:C6	3.07	0.42
36:5:1816:A:C2'	36:5:1817:G:H5''	2.49	0.42
36:5:2808:A:O2'	86:5:3904:OHX:N6	2.53	0.42
36:5:3138:U:OP2	40:l3:30:LYS:HD2	2.19	0.42
36:5:3203:U:O2'	36:5:3204:C:H5'	2.19	0.42
86:7:220:OHX:N3	86:7:228:OHX:N5	2.68	0.42
39:l2:42:ARG:HA	39:l2:88:ILE:O	2.18	0.42
40:l3:252:ILE:HG23	40:l3:260:VAL:HG22	2.02	0.42
42:l5:150:LEU:HA	42:l5:150:LEU:HD23	1.70	0.42
42:l5:219:PHE:HE1	42:l5:227:LEU:HD11	1.84	0.42
45:l8:57:ARG:O	45:l8:61:GLN:HG3	2.20	0.42
48:m1:86:VAL:HG22	48:m1:111:ASP:O	2.20	0.42
49:m3:94:GLY:HA3	71:o5:116:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:27:GLN:C	50:m4:29:ALA:H	2.28	0.42
52:m6:36:VAL:HB	52:m6:108:ILE:HB	2.02	0.42
53:m7:30:ARG:HD2	53:m7:63:PHE:CE2	2.54	0.42
55:m9:164:LEU:HA	55:m9:164:LEU:HD22	1.68	0.42
56:n0:25:PHE:HA	57:n1:149:GLN:O	2.19	0.42
57:n1:126:VAL:HB	57:n1:128:LEU:HG	2.02	0.42
59:n3:80:ARG:HB2	59:n3:99:ALA:HB3	2.01	0.42
61:n5:24:LEU:HD22	61:n5:25:LYS:H	1.84	0.42
64:n8:74:ASN:HA	64:n8:113:LEU:O	2.20	0.42
81:p0:37:GLN:O	81:p0:40:GLU:N	2.49	0.42
1:2:160:C:H2'	1:2:161:U:O4'	2.20	0.42
1:2:196:G:O2'	1:2:197:A:P	2.77	0.42
1:2:256:A:H2'	1:2:257:A:O4'	2.20	0.42
1:2:428:A:H2'	1:2:429:G:O4'	2.19	0.42
1:2:475:A:C6	1:2:476:U:C2	3.08	0.42
1:2:827:C:H2'	1:2:828:U:O4'	2.19	0.42
1:2:1791:A:H5''	28:D6:8:ASN:HD22	1.83	0.42
86:2:2074:OHX:N3	86:2:2162:OHX:N1	2.68	0.42
86:2:2074:OHX:N3	86:2:2162:OHX:N5	2.67	0.42
4:S2:143:TYR:OH	4:S2:151:PRO:HD3	2.20	0.42
6:S4:153:ASN:OD1	8:S6:215:ARG:NH1	2.53	0.42
7:S5:57:SER:OG	7:S5:58:LEU:HG	2.20	0.42
10:S8:27:PHE:CD2	10:S8:27:PHE:C	2.97	0.42
11:S9:129:ILE:HA	11:S9:134:ILE:CD1	2.49	0.42
12:C0:80:LEU:O	12:C0:82:LEU:N	2.53	0.42
15:C3:51:GLY:O	15:C3:55:ARG:N	2.53	0.42
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.19	0.42
19:C7:80:ARG:C	19:C7:82:ASP:H	2.27	0.42
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.20	0.42
20:C8:144:ARG:HB2	20:C8:145:ARG:H	1.70	0.42
21:C9:64:HIS:O	21:C9:68:ARG:HG2	2.20	0.42
22:D0:50:LEU:HD21	22:D0:95:ALA:HB2	2.01	0.42
24:D2:32:LYS:HB2	24:D2:32:LYS:HE3	1.82	0.42
24:D2:90:THR:O	24:D2:94:LEU:HB2	2.20	0.42
26:D4:118:ILE:HG23	26:D4:125:LEU:HD23	2.02	0.42
27:D5:47:TYR:O	27:D5:50:ILE:HG22	2.20	0.42
30:D8:29:ARG:HA	30:D8:41:VAL:HA	2.01	0.42
36:1:18:G:N2	38:4:142:C:C2	2.88	0.42
36:1:185:C:H2'	36:1:186:U:H6	1.84	0.42
36:1:193:C:H2'	36:1:194:U:C6	2.54	0.42
36:1:207:U:H2'	36:1:208:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:968:G:C5	36:1:969:C:C4	3.07	0.42
36:1:1151:U:O4	36:1:1200:A:N6	2.50	0.42
36:1:1414:G:N7	86:1:4118:OHX:N2	2.67	0.42
36:1:1504:A:C5	36:1:1505:C:C5	3.08	0.42
36:1:1589:A:H4'	70:O4:11:ASN:HD22	1.85	0.42
36:1:1803:C:H2'	36:1:1804:A:C8	2.54	0.42
36:1:2389:C:O2'	36:1:2390:A:H5'	2.19	0.42
36:1:2691:A:H2'	36:1:2692:A:O4'	2.19	0.42
36:1:2738:A:C6	36:1:2739:A:C5	3.08	0.42
36:1:2943:G:H8	36:1:2943:G:O5'	2.03	0.42
36:1:2993:G:H2'	36:1:3142:A:H61	1.85	0.42
36:1:3020:U:O4	86:1:3982:OHX:N4	2.53	0.42
36:1:3122:A:N1	46:L9:70:THR:HG21	2.35	0.42
43:L6:155:LEU:HD23	43:L6:155:LEU:HA	1.76	0.42
48:M1:54:VAL:C	48:M1:56:THR:H	2.26	0.42
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	2.01	0.42
50:M4:24:LYS:HG3	50:M4:25:LYS:CD	2.50	0.42
52:M6:188:SER:O	52:M6:189:ASP:C	2.63	0.42
53:M7:32:THR:HG21	53:M7:87:SER:CB	2.50	0.42
55:M9:17:VAL:HG13	55:M9:21:LYS:HB2	2.02	0.42
57:N1:8:ARG:O	57:N1:11:THR:HG23	2.19	0.42
62:N6:118:LEU:O	62:N6:122:LYS:HG3	2.20	0.42
68:O2:19:ARG:HH11	68:O2:19:ARG:HD3	1.69	0.42
69:O3:6:ARG:HG3	69:O3:8:TYR:CE1	2.55	0.42
70:O4:43:LYS:HA	70:O4:50:ALA:HA	2.01	0.42
79:Q3:8:VAL:HG13	79:Q3:8:VAL:H	1.62	0.42
1:6:169:A:OP1	8:s6:137:ARG:HG3	2.19	0.42
1:6:774:A:C2	1:6:775:G:C8	3.07	0.42
1:6:906:A:OP2	16:c4:52:ARG:N	2.52	0.42
1:6:1041:G:N2	1:6:1042:G:C2	2.88	0.42
1:6:1164:G:H2'	1:6:1165:G:C8	2.55	0.42
1:6:1255:G:O2'	1:6:1256:A:H8	2.02	0.42
1:6:1397:U:C4	1:6:1399:C:H1'	2.54	0.42
1:6:1458:G:C2	1:6:1459:C:C4	3.08	0.42
1:6:1523:G:C8	21:c9:79:LEU:HD13	2.55	0.42
1:6:1592:A:C2	1:6:1605:G:C2	3.07	0.42
86:6:2059:OHX:N5	86:6:2147:OHX:N6	2.68	0.42
2:s0:78:SER:OG	2:s0:129:ASP:OD1	2.25	0.42
2:s0:125:ASP:HA	2:s0:126:PRO:HD2	1.84	0.42
2:s0:195:TRP:CD2	2:s0:197:ILE:HB	2.54	0.42
5:s3:17:PHE:C	5:s3:17:PHE:CD2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:72:LEU:HD22	12:c0:65:TYR:HB3	2.02	0.42
7:s5:151:GLY:HA3	7:s5:155:ALA:HA	2.01	0.42
9:s7:61:PHE:CE1	9:s7:93:LEU:HD12	2.54	0.42
11:s9:171:ARG:O	11:s9:175:ARG:HB2	2.20	0.42
14:c2:40:GLY:O	14:c2:124:LYS:N	2.50	0.42
23:d1:74:GLN:HG2	23:d1:79:LEU:HB2	2.00	0.42
28:d6:28:LYS:HG2	28:d6:29:SER:O	2.19	0.42
34:sR:245:PHE:CD1	34:sR:252:LEU:HD13	2.55	0.42
36:5:127:G:H2'	36:5:128:G:C8	2.55	0.42
36:5:337:G:OP2	41:l4:196:ASN:ND2	2.48	0.42
36:5:1175:C:O2	52:m6:87:MET:HG2	2.20	0.42
36:5:1615:C:C2	36:5:1616:U:C5	3.08	0.42
36:5:2342:U:OP1	36:5:3089:C:O2'	2.35	0.42
36:5:2551:U:C2	39:l2:89:TYR:CZ	3.07	0.42
36:5:2658:G:OP2	86:5:3901:OHX:N1	2.53	0.42
36:5:3227:A:C2'	36:5:3228:C:H5'	2.42	0.42
38:8:68:G:C6	38:8:69:U:C4	3.08	0.42
38:8:76:C:H2'	38:8:77:A:O4'	2.20	0.42
39:l2:158:ILE:HD13	39:l2:158:ILE:HG21	1.87	0.42
41:l4:240:PRO:C	41:l4:242:ALA:N	2.77	0.42
46:l9:13:PRO:O	46:l9:16:VAL:HG13	2.19	0.42
47:m0:24:ARG:O	47:m0:25:ALA:HB3	2.20	0.42
49:m3:50:PRO:O	49:m3:52:ASP:N	2.50	0.42
49:m3:64:LYS:HD3	49:m3:65:TYR:CZ	2.55	0.42
50:m4:42:LYS:HB3	50:m4:42:LYS:HE2	1.71	0.42
55:m9:25:ASP:HA	55:m9:26:PRO:HD2	1.82	0.42
57:n1:85:LEU:HD23	57:n1:85:LEU:HA	1.71	0.42
57:n1:160:ILE:HA	57:n1:160:ILE:HD12	1.72	0.42
63:n7:60:LYS:O	63:n7:63:ALA:HB3	2.20	0.42
64:n8:2:PRO:HG2	64:n8:5:PHE:CD2	2.55	0.42
76:q0:82:LEU:HD23	76:q0:82:LEU:HA	1.71	0.42
78:q2:63:LYS:HD3	78:q2:63:LYS:HA	1.83	0.42
1:2:325:G:H2'	1:2:326:G:H8	1.85	0.42
1:2:329:G:H5'	10:S8:99:ALA:HB3	2.00	0.42
1:2:330:G:O2'	10:S8:33:PRO:HB3	2.20	0.42
1:2:1043:A:C2	1:2:1076:A:C2	3.08	0.42
1:2:1081:A:O2'	1:2:1082:C:O2	2.35	0.42
1:2:1308:G:C2	1:2:1309:C:C2	3.07	0.42
1:2:1542:G:H22	1:2:1568:C:H1'	1.78	0.42
86:2:2089:OHX:N1	86:2:2131:OHX:N2	2.68	0.42
3:S1:29:TRP:NE1	3:S1:47:LEU:HG	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:69:CYS:SG	16:C4:114:ARG:HD3	2.60	0.42
6:S4:95:THR:HG22	26:D4:16:PRO:HG2	2.02	0.42
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.20	0.42
8:S6:30:LYS:HE3	8:S6:30:LYS:HB3	1.88	0.42
8:S6:48:TYR:CE1	8:S6:116:LYS:HA	2.55	0.42
10:S8:187:GLU:HG3	13:C1:30:ARG:NH1	2.34	0.42
15:C3:86:GLU:O	15:C3:89:TYR:HB3	2.19	0.42
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.52	0.42
22:D0:70:THR:O	31:D9:40:ARG:NH1	2.53	0.42
23:D1:63:GLY:C	23:D1:65:SER:H	2.28	0.42
26:D4:10:ARG:O	26:D4:24:VAL:HG23	2.20	0.42
26:D4:57:VAL:HG22	26:D4:60:PHE:HE2	1.84	0.42
36:1:541:U:O4	86:1:4189:OHX:N4	2.52	0.42
36:1:802:C:C2	36:1:803:C:C5	3.07	0.42
36:1:815:G:C2	36:1:926:A:C2	3.07	0.42
36:1:1764:U:H3'	36:1:1765:U:C4'	2.50	0.42
36:1:2226:U:OP1	78:Q2:35:LEU:HD11	2.20	0.42
36:1:2376:G:C6	36:1:2377:G:C6	3.08	0.42
36:1:2529:A:C2	36:1:2530:G:H1'	2.55	0.42
36:1:2571:U:H4'	36:1:2572:C:OP1	2.20	0.42
36:1:2659:G:C2	36:1:2712:U:O2	2.72	0.42
36:1:2721:A:O3'	65:N9:33:LYS:HE2	2.20	0.42
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.19	0.42
36:1:3034:C:O2	46:L9:122:LYS:HB3	2.20	0.42
36:1:3120:C:H3'	76:Q0:111:ARG:NH2	2.34	0.42
37:3:113:C:H2'	37:3:114:U:O4'	2.20	0.42
38:4:7:U:H2'	38:4:8:C:C6	2.54	0.42
39:L2:84:THR:OG1	79:Q3:63:THR:N	2.51	0.42
40:L3:139:GLN:O	40:L3:140:ASP:C	2.62	0.42
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.02	0.42
44:L7:26:VAL:HG23	44:L7:27:ALA:H	1.85	0.42
44:L7:88:ARG:NH1	44:L7:92:ILE:HD13	2.35	0.42
44:L7:89:ILE:HD11	44:L7:135:ALA:HB3	2.01	0.42
47:M0:77:THR:C	47:M0:79:VAL:N	2.78	0.42
48:M1:92:ARG:HA	48:M1:171:VAL:O	2.19	0.42
51:M5:187:ARG:O	51:M5:190:THR:HG23	2.20	0.42
52:M6:76:PRO:HD3	52:M6:147:TRP:CD2	2.54	0.42
56:N0:171:PHE:CD2	56:N0:171:PHE:C	2.97	0.42
63:N7:103:GLN:HA	63:N7:104:PRO:HD3	1.91	0.42
68:O2:24:ARG:HG2	68:O2:25:TYR:CZ	2.55	0.42
68:O2:103:LYS:C	68:O2:105:ARG:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:93:THR:O	71:O5:94:LYS:C	2.63	0.42
1:6:329:G:H2'	1:6:330:G:C8	2.55	0.42
1:6:599:A:H5''	25:d3:106:GLY:O	2.19	0.42
1:6:680:U:C2	1:6:682:C:N4	2.88	0.42
1:6:1030:A:C8	1:6:1792:G:C2	3.08	0.42
1:6:1165:G:H2'	1:6:1166:A:O4'	2.19	0.42
1:6:1230:A:C8	1:6:1258:U:C4	3.07	0.42
1:6:1327:C:O5'	1:6:1327:C:H6	2.03	0.42
1:6:1512:G:H2'	1:6:1513:G:H8	1.84	0.42
2:s0:87:LEU:HD12	2:s0:87:LEU:HA	1.78	0.42
3:s1:43:VAL:HG13	3:s1:68:VAL:HG21	2.01	0.42
7:s5:25:LEU:H	7:s5:25:LEU:HD22	1.85	0.42
9:s7:11:GLN:CD	9:s7:13:PRO:HD2	2.44	0.42
9:s7:75:THR:HG23	9:s7:161:GLN:OE1	2.20	0.42
16:c4:18:ARG:HA	16:c4:82:LYS:O	2.19	0.42
17:c5:111:MET:HG2	20:c8:119:ILE:HG13	2.01	0.42
19:c7:15:ALA:O	19:c7:19:ARG:HG2	2.20	0.42
21:c9:23:GLN:HG3	21:c9:55:TYR:CE2	2.54	0.42
24:d2:104:LEU:O	24:d2:110:ILE:HG23	2.19	0.42
25:d3:54:LEU:HD21	25:d3:75:GLN:HB2	2.02	0.42
34:sR:84:SER:OG	34:sR:86:ASP:OD1	2.31	0.42
34:sR:106:HIS:CD2	34:sR:110:VAL:HG22	2.54	0.42
35:sM:48:ARG:NH1	36:5:1017:C:H5''	2.33	0.42
36:5:501:A:C4	36:5:502:U:C5	3.08	0.42
36:5:848:A:C5	36:5:849:C:H1'	2.54	0.42
36:5:1014:U:OP1	36:5:1014:U:H4'	2.20	0.42
36:5:1205:A:H4'	36:5:2835:U:O2'	2.19	0.42
36:5:1609:C:H2'	36:5:1610:G:C8	2.55	0.42
36:5:1925:U:OP2	36:5:1926:C:N4	2.52	0.42
36:5:2115:G:N3	36:5:2119:A:C2	2.87	0.42
36:5:2185:G:O2'	36:5:2314:U:OP2	2.38	0.42
36:5:2186:U:H5'	36:5:2314:U:OP2	2.20	0.42
36:5:3044:G:H2'	36:5:3045:G:H8	1.85	0.42
36:5:3105:U:H2'	36:5:3106:A:C8	2.55	0.42
36:5:3335:A:C2	36:5:3336:A:C4	3.08	0.42
37:7:73:C:H6	37:7:73:C:H2'	1.62	0.42
45:l8:153:ILE:O	45:l8:179:ILE:HA	2.19	0.42
47:m0:200:LEU:HD12	47:m0:213:PHE:HB2	2.02	0.42
47:m0:205:SER:O	47:m0:209:ASN:HB2	2.20	0.42
48:m1:98:ALA:HA	48:m1:156:LYS:HB2	2.02	0.42
49:m3:62:THR:O	49:m3:62:THR:OG1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:87:LYS:HE3	57:n1:87:LYS:HB3	1.77	0.42
60:n4:112:ASN:O	60:n4:115:LYS:N	2.53	0.42
63:n7:5:LEU:HD11	63:n7:30:ASP:OD2	2.19	0.42
67:o1:51:LEU:HD22	67:o1:55:LEU:HD13	2.01	0.42
75:o9:49:MET:O	75:o9:50:ASN:HB2	2.20	0.42
77:q1:9:ARG:HG3	77:q1:9:ARG:NH1	2.35	0.42
79:q3:22:LEU:HD23	79:q3:22:LEU:HA	1.82	0.42
79:q3:35:ALA:HB3	79:q3:37:TYR:HE2	1.84	0.42
1:2:187:G:H3'	10:S8:138:ASN:HD21	1.85	0.42
1:2:276:C:H42	1:2:281:G:H1	1.68	0.42
1:2:471:A:O3'	11:S9:10:LYS:HA	2.20	0.42
1:2:1009:U:P	16:C4:129:LYS:HZ1	2.43	0.42
1:2:1046:G:C4	1:2:1073:G:N2	2.88	0.42
1:2:1390:U:P	19:C7:49:LYS:HG3	2.59	0.42
3:S1:225:VAL:O	3:S1:228:LEU:HB3	2.20	0.42
4:S2:41:LEU:HD11	4:S2:56:ILE:HG12	2.02	0.42
4:S2:74:PRO:O	4:S2:76:LEU:N	2.49	0.42
5:S3:29:LEU:HA	5:S3:32:GLU:OE1	2.20	0.42
5:S3:124:ARG:O	5:S3:128:GLU:HB2	2.20	0.42
5:S3:168:ILE:H	5:S3:168:ILE:HG13	1.59	0.42
6:S4:152:PRO:C	6:S4:154:ILE:N	2.77	0.42
15:C3:27:LYS:H	15:C3:27:LYS:CE	2.28	0.42
20:C8:121:ALA:O	20:C8:124:GLY:N	2.53	0.42
21:C9:9:VAL:HG22	21:C9:140:LEU:HD11	2.02	0.42
32:E0:46:ASN:O	32:E0:47:VAL:HG12	2.20	0.42
32:E0:49:LEU:HD11	32:E0:55:ARG:HB2	2.01	0.42
34:SR:23:LEU:HB2	34:SR:293:ALA:HB3	2.02	0.42
36:1:607:A:H2'	36:1:607:A:N3	2.34	0.42
36:1:812:G:H2'	36:1:813:G:O4'	2.20	0.42
36:1:852:U:H2'	36:1:853:G:H8	1.84	0.42
36:1:1351:U:O2	36:1:1351:U:H2'	2.19	0.42
36:1:1639:C:N4	70:O4:73:SER:HB2	2.35	0.42
36:1:1939:G:H8	36:1:1939:G:O5'	2.02	0.42
36:1:2997:G:C6	36:1:3396:U:C4	3.08	0.42
37:3:71:G:O2'	37:3:72:A:H5'	2.20	0.42
39:L2:41:ILE:HG23	39:L2:63:PHE:CD2	2.55	0.42
41:L4:321:LYS:O	41:L4:324:LEU:HB3	2.19	0.42
42:L5:131:LEU:N	42:L5:131:LEU:HD13	2.35	0.42
42:L5:177:GLU:C	42:L5:179:ARG:H	2.28	0.42
43:L6:43:LEU:HD12	69:O3:105:SER:HB2	2.02	0.42
49:M3:175:SER:O	49:M3:176:GLU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:10:ASP:HB2	52:M6:117:ARG:HB2	2.02	0.42
55:M9:14:VAL:HG21	55:M9:41:ILE:HG22	2.02	0.42
55:M9:101:VAL:HG13	55:M9:104:ARG:NH2	2.35	0.42
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.24	0.42
63:N7:22:LYS:HE3	63:N7:134:LEU:HB2	2.02	0.42
73:O7:67:LEU:O	73:O7:68:LYS:C	2.63	0.42
1:6:380:U:C4	11:s9:5:PRO:HG3	2.54	0.42
1:6:722:G:O2'	1:6:723:G:H8	2.03	0.42
1:6:1073:G:H2'	1:6:1074:G:H5''	2.00	0.42
1:6:1347:U:O2	1:6:1516:A:H5'	2.20	0.42
1:6:1561:U:H4'	1:6:1599:C:H4'	2.01	0.42
1:6:1697:G:H8	1:6:1705:C:C4	2.38	0.42
1:6:1796:C:H5'	1:6:1797:A:C8	2.55	0.42
2:s0:32:HIS:HD2	2:s0:153:SER:HB2	1.84	0.42
3:s1:190:PRO:HG2	3:s1:192:VAL:CG2	2.50	0.42
5:s3:160:SER:O	5:s3:164:VAL:HB	2.20	0.42
6:s4:207:LEU:HD23	6:s4:207:LEU:HA	1.75	0.42
6:s4:221:ARG:H	6:s4:221:ARG:HG2	1.51	0.42
8:s6:6:SER:C	8:s6:8:PRO:HD3	2.45	0.42
8:s6:147:LEU:HB3	8:s6:151:ASP:OD1	2.20	0.42
9:s7:38:LEU:HA	9:s7:38:LEU:HD23	1.75	0.42
10:s8:21:PHE:CD1	10:s8:22:ARG:HG2	2.45	0.42
11:s9:33:GLU:HB2	11:s9:34:PHE:CD2	2.55	0.42
15:c3:140:LYS:HD3	15:c3:142:GLU:HG3	2.02	0.42
18:c6:43:ILE:H	18:c6:43:ILE:HG12	1.50	0.42
20:c8:8:GLN:HB3	20:c8:9:GLY:H	1.54	0.42
20:c8:42:TYR:CE2	20:c8:73:MET:HG3	2.50	0.42
24:d2:23:ARG:C	24:d2:65:LEU:HB2	2.44	0.42
27:d5:62:VAL:O	27:d5:66:VAL:HG23	2.20	0.42
27:d5:86:GLU:O	27:d5:88:ILE:N	2.53	0.42
28:d6:84:VAL:C	28:d6:85:ARG:HG2	2.44	0.42
36:5:26:A:C2	36:5:330:G:C5	3.07	0.42
36:5:129:U:H2'	36:5:130:A:C8	2.55	0.42
36:5:806:A:N3	36:5:2812:C:O2'	2.46	0.42
36:5:916:G:N7	36:5:924:G:C5	2.88	0.42
36:5:1444:G:H2'	36:5:1445:U:O4'	2.20	0.42
36:5:1602:A:O3'	55:m9:9:ARG:NH2	2.53	0.42
36:5:1805:C:H2'	36:5:1806:A:C8	2.55	0.42
36:5:1822:C:H2'	36:5:1823:A:C8	2.55	0.42
36:5:1844:C:C2	36:5:1845:G:C8	3.08	0.42
36:5:2140:U:H2'	36:5:2977:G:O2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2653:C:O2	36:5:2694:A:C6	2.73	0.42
36:5:2715:A:C2	36:5:2753:G:C6	3.08	0.42
36:5:3277:U:H2'	36:5:3278:C:O4'	2.19	0.42
40:13:53:MET:HE2	40:13:77:THR:HG22	2.02	0.42
40:13:205:VAL:C	40:13:207:SER:N	2.75	0.42
40:13:233:TRP:CG	40:13:265:ALA:HB1	2.55	0.42
41:14:64:SER:HA	41:14:75:PRO:HA	2.01	0.42
41:14:264:SER:C	41:14:266:THR:N	2.77	0.42
42:15:158:ARG:HH21	42:15:158:ARG:CB	2.32	0.42
44:17:160:ARG:HG3	44:17:203:TRP:CG	2.55	0.42
49:m3:95:ILE:HG12	49:m3:119:TYR:CE2	2.55	0.42
52:m6:48:PHE:CE1	52:m6:52:LEU:HD21	2.55	0.42
52:m6:68:ARG:H	52:m6:68:ARG:HG2	1.28	0.42
56:n0:87:THR:C	56:n0:88:HIS:ND1	2.78	0.42
58:n2:39:ASP:N	58:n2:39:ASP:OD2	2.53	0.42
60:n4:26:SER:O	60:n4:27:LYS:C	2.62	0.42
70:o4:66:SER:HB2	70:o4:69:HIS:CE1	2.55	0.42
75:o9:17:LYS:O	75:o9:19:GLN:N	2.53	0.42
78:q2:50:PHE:O	86:q2:502:OHX:N1	2.53	0.42
81:p0:93:LEU:HD13	81:p0:94:THR:H	1.85	0.42
1:2:454:U:H4'	6:S4:62:LYS:HE3	2.02	0.41
1:2:553:G:C5	1:2:554:C:C2	3.08	0.41
1:2:1240:U:C2'	1:2:1241:G:H5''	2.50	0.41
1:2:1437:U:H5'	5:S3:176:LEU:HD23	2.02	0.41
1:2:1583:A:N1	1:2:1611:A:H5''	2.34	0.41
5:S3:32:GLU:O	5:S3:52:ALA:HB1	2.19	0.41
6:S4:123:LEU:HD12	6:S4:161:LYS:HA	2.01	0.41
7:S5:30:PRO:HB2	7:S5:33:VAL:HB	2.02	0.41
7:S5:157:ARG:O	7:S5:224:ASN:HB3	2.20	0.41
8:S6:67:VAL:HG23	8:S6:100:ALA:H	1.85	0.41
8:S6:137:ARG:HH21	8:S6:177:ARG:HE	1.68	0.41
9:S7:29:ASN:O	9:S7:30:SER:OG	2.32	0.41
20:C8:18:LEU:HD21	20:C8:70:VAL:HG13	2.02	0.41
23:D1:73:ALA:HB1	23:D1:78:LEU:HD11	2.02	0.41
25:D3:127:VAL:CG2	25:D3:142:LYS:HE3	2.50	0.41
33:E1:104:SER:O	33:E1:106:TYR:N	2.52	0.41
36:1:602:A:N6	36:1:603:A:N1	2.68	0.41
36:1:627:U:H2'	36:1:628:A:C8	2.55	0.41
36:1:805:G:H1'	41:L4:73:ARG:HH11	1.85	0.41
36:1:1103:A:H1'	36:1:1104:G:OP1	2.20	0.41
36:1:2124:G:C2	36:1:2125:A:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2148:U:H2'	36:1:2149:A:C4	2.55	0.41
36:1:2519:A:C4	36:1:2589:G:N2	2.87	0.41
36:1:2746:A:OP2	42:L5:178:ASN:ND2	2.49	0.41
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.20	0.41
36:1:3191:G:H2'	36:1:3192:U:O4'	2.20	0.41
86:1:4023:OHX:N4	86:1:4143:OHX:N1	2.68	0.41
86:1:4190:OHX:N4	43:L6:129:GLU:HB3	2.35	0.41
86:1:4200:OHX:N4	38:4:140:G:OP1	2.53	0.41
37:3:1:G:N2	42:L5:265:TYR:HB3	2.35	0.41
39:L2:227:ARG:HH11	39:L2:227:ARG:HG3	1.85	0.41
40:L3:332:ARG:O	40:L3:333:LYS:HB2	2.20	0.41
41:L4:191:LYS:C	41:L4:193:LYS:N	2.75	0.41
42:L5:233:ALA:O	42:L5:234:ASP:C	2.63	0.41
43:L6:13:GLU:OE1	68:O2:90:LYS:HB2	2.20	0.41
44:L7:106:LEU:HD23	44:L7:106:LEU:HA	1.83	0.41
46:L9:48:VAL:O	46:L9:49:ASN:HB3	2.20	0.41
46:L9:84:LYS:HA	46:L9:188:THR:HG23	2.02	0.41
48:M1:8:PRO:HD2	48:M1:10:ARG:CG	2.50	0.41
49:M3:167:PHE:O	49:M3:170:LEU:HB2	2.19	0.41
51:M5:14:LYS:HA	51:M5:19:LEU:CD2	2.50	0.41
56:N0:27:MET:HG2	57:N1:151:LEU:O	2.20	0.41
59:N3:4:ASN:C	59:N3:6:ALA:H	2.28	0.41
59:N3:126:TRP:HA	59:N3:127:PRO:HD3	1.73	0.41
62:N6:102:SER:HG	62:N6:103:LYS:HZ2	1.56	0.41
63:N7:10:VAL:HB	63:N7:83:THR:HG22	2.01	0.41
67:O1:31:ARG:O	67:O1:35:GLU:HB2	2.19	0.41
67:O1:35:GLU:O	67:O1:38:LYS:HB3	2.20	0.41
70:O4:86:LYS:HD2	70:O4:86:LYS:C	2.45	0.41
1:6:53:G:N2	1:6:427:C:N3	2.56	0.41
1:6:72:A:C6	1:6:73:U:N3	2.88	0.41
1:6:219:A:H2'	1:6:831:U:O2	2.20	0.41
1:6:265:A:C2	1:6:267:U:C4	3.08	0.41
1:6:626:U:H2'	1:6:627:C:H6	1.85	0.41
1:6:755:A:O2'	1:6:756:A:O4'	2.38	0.41
1:6:999:U:O2	1:6:1006:C:N4	2.53	0.41
1:6:1358:G:H4'	21:c9:130:ARG:HB3	2.02	0.41
1:6:1358:G:O2'	21:c9:133:ASP:OD1	2.24	0.41
2:s0:124:THR:CG2	2:s0:174:TRP:HE1	2.32	0.41
2:s0:198:MET:HE1	19:c7:88:VAL:HG21	2.02	0.41
4:s2:49:LYS:HD3	4:s2:49:LYS:HA	1.52	0.41
4:s2:177:GLY:HA2	4:s2:194:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:163:PRO:O	5:s3:167:PHE:HD2	2.02	0.41
5:s3:210:GLU:HA	5:s3:211:PRO:HD3	1.78	0.41
7:s5:89:ILE:O	7:s5:93:LEU:HB2	2.20	0.41
7:s5:160:VAL:HG12	30:d8:43:ASN:HB2	2.02	0.41
9:s7:12:ALA:HB3	9:s7:13:PRO:HD3	2.01	0.41
11:s9:92:LYS:HB2	11:s9:95:TYR:CD2	2.49	0.41
15:c3:40:TYR:CE2	15:c3:53:LEU:HD23	2.55	0.41
21:c9:6:VAL:HG13	21:c9:66:TYR:CZ	2.55	0.41
22:d0:107:THR:O	22:d0:108:ILE:HD12	2.20	0.41
23:d1:85:TYR:HD2	23:d1:85:TYR:HA	1.78	0.41
36:5:78:U:H2'	36:5:79:U:H6	1.84	0.41
36:5:171:G:H8	36:5:171:G:OP2	2.02	0.41
36:5:612:U:H2'	36:5:613:G:C8	2.55	0.41
36:5:706:A:O2'	36:5:707:U:H5'	2.19	0.41
36:5:711:A:N7	36:5:712:G:H1'	2.34	0.41
36:5:1076:C:H4'	65:n9:38:LYS:HD3	2.02	0.41
36:5:1151:U:C5	36:5:1152:G:C6	3.08	0.41
36:5:1651:U:H5'	39:l2:71:LEU:HD13	2.01	0.41
36:5:2562:A:C5	36:5:2563:G:C8	3.07	0.41
86:5:4060:OHX:N3	86:5:4138:OHX:N4	2.68	0.41
37:7:86:U:O2'	44:l7:218:ARG:NH1	2.53	0.41
38:8:24:G:N2	38:8:25:G:H1'	2.35	0.41
40:l3:291:GLU:OE1	40:l3:302:LYS:NZ	2.39	0.41
41:l4:6:VAL:HG21	41:l4:255:PHE:HZ	1.84	0.41
42:l5:31:TYR:O	42:l5:35:ARG:HD2	2.20	0.41
42:l5:104:LEU:HB2	42:l5:247:ILE:HD13	2.01	0.41
42:l5:278:SER:O	42:l5:281:GLU:HG2	2.20	0.41
46:l9:126:VAL:HA	46:l9:127:PRO:HD2	1.85	0.41
47:m0:9:TYR:CD2	47:m0:97:LEU:HD13	2.55	0.41
47:m0:71:CYS:SG	47:m0:155:ALA:HA	2.59	0.41
52:m6:80:PHE:CD1	52:m6:80:PHE:C	2.97	0.41
54:m8:32:LEU:O	54:m8:35:PHE:HB3	2.19	0.41
62:n6:37:LYS:H	62:n6:37:LYS:HD3	1.85	0.41
62:n6:56:VAL:HG22	62:n6:105:VAL:O	2.20	0.41
65:n9:32:LEU:HB2	65:n9:40:ARG:NH1	2.35	0.41
66:o0:83:LYS:HG2	66:o0:85:PHE:CZ	2.55	0.41
67:o1:74:ARG:NH1	67:o1:109:VAL:HG11	2.35	0.41
74:o8:12:LEU:HD13	74:o8:12:LEU:HA	1.61	0.41
75:o9:21:ARG:HD3	75:o9:22:PRO:O	2.20	0.41
75:o9:48:LYS:HD2	75:o9:48:LYS:HA	1.87	0.41
81:p0:98:ASN:O	81:p0:102:SER:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:p1:38:UNK:O	83:p1:42:UNK:N	2.53	0.41
1:2:495:C:H3'	1:2:496:G:C4'	2.49	0.41
1:2:813:U:H5'	15:C3:76:LYS:HD3	2.02	0.41
1:2:892:A:C5	1:2:893:U:C4	3.08	0.41
1:2:895:G:H2'	1:2:896:U:C6	2.56	0.41
1:2:952:A:OP1	15:C3:94:LYS:HE2	2.20	0.41
1:2:980:G:O6	86:2:2044:OHX:N2	2.53	0.41
1:2:1219:A:O2'	12:C0:48:SER:HA	2.21	0.41
1:2:1288:G:C6	1:2:1328:G:C2	3.09	0.41
1:2:1552:U:C5	1:2:1553:G:C5	3.08	0.41
1:2:1564:U:H2'	1:2:1565:C:C6	2.56	0.41
1:2:1669:U:H2'	1:2:1670:G:O4'	2.19	0.41
2:S0:187:ALA:O	2:S0:188:LEU:HD22	2.20	0.41
3:S1:48:VAL:CG1	3:S1:61:LEU:HD21	2.48	0.41
3:S1:93:GLY:C	3:S1:95:ASN:H	2.28	0.41
4:S2:133:LYS:O	4:S2:136:VAL:HG23	2.20	0.41
4:S2:214:ALA:O	4:S2:218:ILE:HG13	2.19	0.41
8:S6:97:VAL:HG22	8:S6:98:ARG:O	2.20	0.41
10:S8:31:ARG:HH22	10:S8:48:THR:HA	1.85	0.41
10:S8:72:ILE:HG21	10:S8:112:TRP:CZ2	2.55	0.41
11:S9:134:ILE:HG12	11:S9:135:ALA:N	2.34	0.41
17:C5:67:ALA:O	86:C5:201:OHX:N2	2.52	0.41
19:C7:84:TYR:C	19:C7:85:VAL:HG23	2.45	0.41
22:D0:105:GLN:HG3	22:D0:106:ILE:H	1.84	0.41
24:D2:115:GLU:HA	24:D2:118:ARG:CZ	2.50	0.41
26:D4:57:VAL:HG13	26:D4:58:PHE:N	2.35	0.41
26:D4:117:LYS:O	26:D4:118:ILE:HD13	2.20	0.41
32:E0:4:VAL:HG12	32:E0:4:VAL:O	2.20	0.41
34:SR:168:THR:HG23	34:SR:181:TRP:O	2.20	0.41
36:1:22:G:O4'	38:4:104:A:H1'	2.20	0.41
36:1:28:C:O2'	36:1:29:C:H5'	2.21	0.41
36:1:336:A:O2'	36:1:337:G:H5'	2.20	0.41
36:1:498:A:OP1	69:O3:86:ARG:NE	2.50	0.41
36:1:985:U:H2'	36:1:986:U:C6	2.52	0.41
36:1:1235:U:C4'	36:1:1236:G:H5'	2.48	0.41
36:1:1522:U:H4'	36:1:1523:U:OP2	2.20	0.41
36:1:2144:A:C4	36:1:2281:A:C6	3.08	0.41
36:1:2264:U:OP2	86:1:3979:OHX:N5	2.54	0.41
36:1:2392:C:H1'	40:L3:266:ARG:HH12	1.84	0.41
36:1:2886:U:C5	36:1:2911:A:C5	3.08	0.41
36:1:2943:G:H2'	36:1:2944:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2955:U:O5'	36:1:2955:U:H6	2.03	0.41
36:1:3189:G:C2	36:1:3190:C:C2	3.09	0.41
36:1:3384:U:C2	36:1:3385:U:C5	3.09	0.41
37:3:92:A:C5	37:3:93:C:H1'	2.55	0.41
37:3:113:C:C4	37:3:114:U:C4	3.08	0.41
39:L2:27:ALA:HA	39:L2:75:ILE:HG22	2.01	0.41
40:L3:85:VAL:HG22	40:L3:163:HIS:CD2	2.55	0.41
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.45	0.41
42:L5:78:ALA:HA	42:L5:82:GLU:OE2	2.21	0.41
42:L5:277:LEU:HD12	42:L5:277:LEU:HA	1.88	0.41
43:L6:31:ARG:HE	43:L6:31:ARG:HB3	1.59	0.41
46:L9:91:ARG:HD3	46:L9:143:GLU:OE2	2.21	0.41
47:M0:169:LYS:O	47:M0:178:ARG:HG2	2.20	0.41
48:M1:100:GLY:O	48:M1:159:THR:HG21	2.20	0.41
51:M5:101:THR:O	51:M5:105:ARG:HG3	2.20	0.41
52:M6:127:LEU:HD11	56:N0:168:PRO:HG3	2.02	0.41
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.85	0.41
55:M9:15:VAL:HG23	55:M9:15:VAL:H	1.58	0.41
56:N0:91:TYR:CZ	56:N0:93:GLU:HG2	2.56	0.41
57:N1:116:ARG:O	57:N1:120:LYS:N	2.53	0.41
62:N6:48:LEU:HD23	62:N6:49:PRO:HD2	2.01	0.41
1:6:30:G:C6	1:6:597:G:C6	3.08	0.41
1:6:373:G:H2'	1:6:374:U:C6	2.54	0.41
1:6:473:A:N6	1:6:474:A:C2	2.87	0.41
1:6:545:A:C2	1:6:593:U:O2	2.73	0.41
1:6:643:G:C2	1:6:644:C:C2	3.08	0.41
1:6:771:A:C2	1:6:772:G:H1'	2.55	0.41
1:6:1445:G:O6	33:e1:87:THR:HB	2.21	0.41
1:6:1654:G:OP1	77:q1:21:ARG:NH1	2.43	0.41
1:6:1779:U:H2'	1:6:1781:A:OP2	2.20	0.41
2:s0:114:SER:O	2:s0:114:SER:OG	2.30	0.41
2:s0:131:GLN:NE2	2:s0:134:LYS:HE2	2.35	0.41
4:s2:77:GLN:H	4:s2:77:GLN:HG3	1.52	0.41
4:s2:115:ILE:HD13	4:s2:208:GLU:OE1	2.20	0.41
6:s4:60:GLU:OE1	26:d4:20:ARG:NH1	2.48	0.41
7:s5:162:VAL:HB	30:d8:45:LYS:HB3	2.02	0.41
9:s7:77:LEU:HD23	9:s7:77:LEU:HA	1.85	0.41
10:s8:196:LEU:HD23	10:s8:196:LEU:HA	1.90	0.41
11:s9:135:ALA:HA	11:s9:139:GLN:O	2.20	0.41
12:c0:32:HIS:HB3	12:c0:34:GLU:O	2.20	0.41
17:c5:63:ALA:HB1	17:c5:74:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:24:ILE:HD12	23:d1:31:SER:HB2	2.02	0.41
25:d3:38:PHE:CD2	25:d3:38:PHE:N	2.88	0.41
35:sM:27:LYS:HD2	48:m1:68:HIS:NE2	2.35	0.41
36:5:280:U:O2'	36:5:282:G:N7	2.43	0.41
36:5:370:U:OP1	86:5:4161:OHX:N1	2.53	0.41
36:5:686:G:C6	36:5:687:U:C2	3.08	0.41
36:5:701:G:C6	36:5:702:C:C4	3.08	0.41
36:5:938:C:OP1	36:5:963:G:H5'	2.20	0.41
36:5:1229:G:O2'	81:p0:32:ASN:HA	2.20	0.41
36:5:1347:U:H5''	41:l4:303:GLY:H	1.83	0.41
36:5:1362:G:O2'	44:l7:159:GLN:HA	2.20	0.41
36:5:1432:C:O2'	36:5:1433:A:H3'	2.21	0.41
36:5:1547:G:H2'	36:5:1548:C:C6	2.55	0.41
36:5:1666:G:C6	36:5:1667:A:C6	3.08	0.41
36:5:1730:G:C8	66:o0:28:LYS:HD2	2.55	0.41
36:5:2164:A:OP1	39:l2:8:GLN:NE2	2.53	0.41
36:5:2169:G:O6	86:5:3947:OHX:N5	2.53	0.41
36:5:2566:C:O2	36:5:2576:G:C2	2.74	0.41
36:5:2815:G:H5''	36:5:2816:G:OP2	2.20	0.41
36:5:3163:A:C6	36:5:3288:G:C6	3.08	0.41
86:5:3930:OHX:N5	38:8:7:U:O4	2.53	0.41
38:8:129:C:H2'	38:8:130:C:H6	1.85	0.41
40:l3:35:ASP:OD2	40:l3:37:ARG:HD2	2.20	0.41
41:l4:356:THR:O	41:l4:359:LEU:N	2.53	0.41
41:l4:361:HIS:NE2	41:l4:362:ASP:HB2	2.35	0.41
42:l5:36:LEU:HD23	42:l5:36:LEU:HA	1.90	0.41
44:l7:239:LEU:HD23	44:l7:239:LEU:HA	1.73	0.41
45:l8:166:LEU:HD23	45:l8:166:LEU:HA	1.85	0.41
46:l9:94:TYR:CD1	46:l9:94:TYR:N	2.87	0.41
50:m4:14:LEU:H	50:m4:19:ARG:HH11	1.66	0.41
50:m4:22:LEU:HD23	50:m4:99:TRP:CZ2	2.55	0.41
52:m6:84:LEU:HD22	52:m6:102:LEU:HD22	2.01	0.41
56:n0:99:ARG:O	56:n0:103:VAL:HG23	2.20	0.41
59:n3:120:LYS:H	59:n3:137:VAL:CG2	2.32	0.41
60:n4:134:GLN:HB3	60:n4:135:SER:H	1.46	0.41
61:n5:27:ARG:H	61:n5:27:ARG:HG2	1.64	0.41
61:n5:88:MET:HG2	61:n5:120:LYS:H	1.84	0.41
62:n6:15:ALA:O	62:n6:18:ALA:HB3	2.19	0.41
63:n7:87:LEU:HD12	63:n7:127:ASN:CG	2.45	0.41
66:o0:54:SER:HA	66:o0:57:GLU:HB2	2.02	0.41
68:o2:12:LYS:HD3	68:o2:57:TYR:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:q0:77:ILE:O	76:q0:78:ILE:HG23	2.20	0.41
79:q3:37:TYR:N	79:q3:37:TYR:CD2	2.88	0.41
81:p0:53:MET:SD	81:p0:85:GLY:HA3	2.59	0.41
1:2:68:A:OP2	8:S6:171:LYS:NZ	2.53	0.41
1:2:478:A:C2	1:2:479:C:C2	3.08	0.41
1:2:593:U:OP2	11:S9:39:LYS:HB2	2.20	0.41
1:2:901:G:H22	16:C4:54:GLU:CD	2.28	0.41
1:2:1666:U:C4	1:2:1736:G:C2	3.08	0.41
1:2:1798:U:C4	28:D6:38:ARG:NH2	2.88	0.41
2:S0:18:LEU:HD22	2:S0:18:LEU:HA	1.91	0.41
8:S6:147:LEU:O	8:S6:148:SER:OG	2.26	0.41
10:S8:138:ASN:HB3	10:S8:141:ARG:HH12	1.86	0.41
11:S9:146:PHE:CZ	11:S9:149:ARG:CZ	3.03	0.41
13:C1:95:PRO:O	13:C1:96:LYS:C	2.63	0.41
13:C1:131:ILE:HA	13:C1:131:ILE:HD13	1.83	0.41
15:C3:119:GLU:HA	15:C3:122:ILE:HD12	2.02	0.41
17:C5:15:HIS:NE2	17:C5:16:SER:O	2.54	0.41
18:C6:47:LYS:HE3	18:C6:79:TYR:OH	2.20	0.41
24:D2:51:GLU:O	24:D2:61:ILE:HA	2.20	0.41
24:D2:62:VAL:HB	29:D7:8:LEU:HD21	2.03	0.41
31:D9:5:ASN:CG	31:D9:7:TRP:NE1	2.77	0.41
36:1:346:C:C4	36:1:348:A:C8	3.08	0.41
36:1:422:A:C2	36:1:2363:A:H4'	2.55	0.41
36:1:674:G:C6	36:1:789:A:C6	3.07	0.41
36:1:815:G:C6	36:1:906:A:C4	3.07	0.41
36:1:1074:U:O2'	36:1:1075:A:H2'	2.20	0.41
36:1:1230:G:O6	36:1:1231:A:N6	2.53	0.41
36:1:1325:U:H5''	36:1:1325:U:H6	1.85	0.41
36:1:1343:A:H2'	36:1:1344:G:H8	1.85	0.41
36:1:2369:G:H2'	36:1:2370:G:O4'	2.20	0.41
36:1:2374:C:C4	36:1:2941:A:C4	3.08	0.41
36:1:2504:U:H6	36:1:2504:U:O5'	2.03	0.41
36:1:2553:U:H4'	36:1:2554:A:OP2	2.21	0.41
36:1:2943:G:N7	40:L3:2:SER:HB3	2.36	0.41
36:1:3133:C:H2'	36:1:3134:A:O4'	2.21	0.41
36:1:3375:A:H5''	36:1:3378:C:H5	1.85	0.41
38:4:68:G:OP2	86:O7:104:OHX:N6	2.52	0.41
38:4:79:A:H2'	38:4:80:A:O2'	2.20	0.41
40:L3:205:VAL:C	40:L3:207:SER:H	2.28	0.41
40:L3:345:ASN:OD1	40:L3:347:SER:HB2	2.20	0.41
42:L5:108:ARG:O	42:L5:111:GLN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:244:HIS:HA	42:L5:247:ILE:HD12	2.02	0.41
45:L8:71:VAL:HB	51:M5:21:PHE:CE1	2.55	0.41
46:L9:155:SER:O	46:L9:158:ALA:HB3	2.20	0.41
51:M5:76:PRO:O	51:M5:78:GLY:N	2.53	0.41
52:M6:192:LYS:O	52:M6:195:ALA:HB3	2.20	0.41
59:N3:13:ILE:HD12	59:N3:85:TRP:CD2	2.54	0.41
63:N7:63:ALA:O	63:N7:67:LYS:HD3	2.21	0.41
68:O2:23:ASP:OD1	68:O2:23:ASP:N	2.53	0.41
68:O2:78:ASN:HA	68:O2:108:ILE:HD11	2.02	0.41
70:O4:106:LYS:O	70:O4:110:GLU:HG3	2.20	0.41
73:O7:19:CYS:HB2	73:O7:34:CYS:HB2	2.02	0.41
1:6:273:G:O2'	1:6:274:G:H5'	2.20	0.41
1:6:399:A:H4'	6:s4:3:ARG:HG2	2.02	0.41
1:6:613:G:OP2	1:6:1099:U:O2'	2.31	0.41
1:6:730:G:C5	1:6:731:C:C4	3.08	0.41
1:6:754:A:N7	6:s4:187:ARG:NH2	2.68	0.41
1:6:1039:A:N6	1:6:1091:A:C2	2.88	0.41
1:6:1046:G:C2	1:6:1073:G:C2	3.08	0.41
1:6:1103:U:O2'	1:6:1104:U:H5'	2.20	0.41
1:6:1185:U:C2	1:6:1458:G:C8	3.08	0.41
1:6:1458:G:O2'	17:c5:123:TYR:HD2	2.03	0.41
1:6:1796:C:O4'	28:d6:5:ARG:HD3	2.20	0.41
86:6:2059:OHX:N2	86:6:2147:OHX:N4	2.68	0.41
2:s0:28:ASN:OD1	2:s0:28:ASN:N	2.53	0.41
3:s1:78:ASP:OD1	3:s1:78:ASP:N	2.52	0.41
4:s2:61:LEU:HA	4:s2:62:PRO:HD2	1.90	0.41
6:s4:62:LYS:NZ	6:s4:66:MET:HE3	2.35	0.41
7:s5:25:LEU:HD12	18:c6:61:SER:OG	2.20	0.41
7:s5:159:ALA:HB3	7:s5:225:ARG:HB3	2.02	0.41
10:s8:52:ASN:OD1	10:s8:52:ASN:N	2.53	0.41
11:s9:33:GLU:H	11:s9:33:GLU:HG2	1.58	0.41
18:c6:38:LEU:HD23	18:c6:38:LEU:HA	1.84	0.41
18:c6:50:GLU:N	18:c6:51:PRO:HD2	2.36	0.41
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.55	0.41
24:d2:38:LEU:HD23	24:d2:38:LEU:HA	1.72	0.41
24:d2:75:ILE:HD13	24:d2:75:ILE:HA	1.77	0.41
24:d2:79:PHE:O	24:d2:124:LYS:HA	2.21	0.41
25:d3:71:CYS:HB3	25:d3:85:ALA:O	2.20	0.41
34:sR:108:SER:H	34:sR:128:ASP:HB3	1.86	0.41
34:sR:246:SER:C	34:sR:248:ASN:H	2.28	0.41
36:5:271:C:H2'	36:5:272:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:961:C:N3	86:5:4173:OHX:N4	2.68	0.41
36:5:1569:U:H5'	36:5:1570:U:H6	1.85	0.41
36:5:1622:U:H2'	36:5:1623:G:O4'	2.21	0.41
36:5:1940:G:N2	36:5:3362:A:C8	2.89	0.41
36:5:2259:A:C5	36:5:2260:U:C5	3.08	0.41
36:5:2419:A:H1'	36:5:2804:A:O4'	2.20	0.41
36:5:2438:A:C2	36:5:2439:A:C8	3.08	0.41
36:5:3099:C:H4'	40:l3:343:TYR:CE1	2.55	0.41
36:5:3215:A:C5'	50:m4:121:MET:HE1	2.50	0.41
37:7:49:G:N3	37:7:50:U:H5	2.18	0.41
38:8:15:G:O2'	38:8:16:G:H5'	2.19	0.41
38:8:38:U:C4	71:o5:89:ARG:HD2	2.56	0.41
38:8:42:G:OP1	73:o7:60:GLY:N	2.40	0.41
38:8:80:A:H2	38:8:83:C:H41	1.68	0.41
38:8:103:G:H4'	73:o7:21:ARG:HG2	2.01	0.41
39:l2:27:ALA:HB3	39:l2:128:ARG:HH22	1.85	0.41
39:l2:102:LEU:HD22	39:l2:107:VAL:HG12	2.02	0.41
41:l4:22:LEU:HA	41:l4:23:PRO:HD3	1.80	0.41
41:l4:138:ARG:HH21	41:l4:240:PRO:HB2	1.85	0.41
41:l4:329:PRO:HB2	41:l4:330:TYR:H	1.67	0.41
41:l4:337:GLU:O	41:l4:339:LEU:N	2.53	0.41
42:l5:110:LEU:O	42:l5:116:ASP:HB3	2.20	0.41
47:m0:17:TYR:CE1	47:m0:98:ARG:HD3	2.55	0.41
49:m3:42:ARG:O	49:m3:46:ILE:HB	2.19	0.41
49:m3:119:TYR:HA	49:m3:145:PHE:CE1	2.56	0.41
51:m5:35:VAL:HA	51:m5:65:ARG:HD3	2.02	0.41
52:m6:33:ILE:HD12	52:m6:33:ILE:HG23	1.79	0.41
56:n0:30:PHE:CZ	56:n0:103:VAL:HG21	2.55	0.41
56:n0:171:PHE:O	56:n0:172:TYR:C	2.63	0.41
58:n2:22:PRO:HB2	58:n2:28:PHE:HB2	2.02	0.41
63:n7:10:VAL:O	63:n7:83:THR:HB	2.20	0.41
65:n9:15:LYS:C	65:n9:17:HIS:H	2.28	0.41
69:o3:52:VAL:HG22	69:o3:66:VAL:HG22	2.01	0.41
69:o3:67:MET:HE2	69:o3:67:MET:HB3	1.88	0.41
75:o9:10:LYS:HA	75:o9:13:MET:HE3	2.01	0.41
75:o9:35:ILE:HD12	75:o9:35:ILE:N	2.36	0.41
77:q1:4:LYS:HG2	77:q1:5:TRP:CZ3	2.54	0.41
79:q3:3:LYS:HE2	79:q3:3:LYS:HB3	1.88	0.41
1:2:417:A:H4'	1:2:418:G:O5'	2.20	0.41
1:2:432:G:C5	1:2:433:C:C4	3.09	0.41
1:2:892:A:H2'	1:2:893:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:955:A:H5''	15:C3:10:GLY:HA3	2.03	0.41
1:2:1081:A:H2'	1:2:1083:G:N7	2.34	0.41
1:2:1450:U:H2'	1:2:1451:C:C6	2.55	0.41
1:2:1485:C:N3	1:2:1592:A:H1'	2.36	0.41
6:S4:16:HIS:C	6:S4:18:TRP:N	2.78	0.41
6:S4:36:HIS:NE2	6:S4:88:ASP:OD2	2.53	0.41
7:S5:42:LEU:HD21	7:S5:45:LYS:HD2	2.02	0.41
9:S7:45:SER:OG	9:S7:46:ILE:N	2.54	0.41
14:C2:73:LYS:NZ	33:E1:108:VAL:H	2.18	0.41
15:C3:105:ASN:ND2	15:C3:105:ASN:N	2.68	0.41
20:C8:36:LYS:HB2	20:C8:102:ALA:HA	2.01	0.41
20:C8:82:PRO:HB3	20:C8:84:TRP:CE2	2.55	0.41
33:E1:144:CYS:O	33:E1:145:HIS:C	2.63	0.41
36:1:677:A:C8	36:1:786:A:C6	3.09	0.41
36:1:682:U:H5	41:L4:112:LYS:HD3	1.85	0.41
36:1:771:A:H2'	36:1:772:U:O4'	2.20	0.41
36:1:953:G:C8	36:1:1117:G:C8	3.08	0.41
36:1:1052:U:H5''	36:1:1053:A:OP2	2.19	0.41
36:1:1112:A:H2'	36:1:1113:G:O4'	2.20	0.41
36:1:1430:U:H2'	64:N8:9:ARG:NH2	2.35	0.41
36:1:1517:G:H2'	36:1:1518:U:O4'	2.20	0.41
36:1:1813:A:H3'	36:1:1813:A:N3	2.35	0.41
36:1:1939:G:C5	36:1:1940:G:C8	3.08	0.41
36:1:2414:G:C6	36:1:2415:C:C4	3.09	0.41
36:1:2646:C:H5''	47:M0:119:TRP:CD1	2.56	0.41
36:1:2989:U:O3'	40:L3:232:ARG:NH2	2.52	0.41
36:1:3008:A:H2'	36:1:3009:G:C8	2.55	0.41
36:1:3180:A:H2'	52:M6:167:TYR:HE1	1.86	0.41
36:1:3237:U:H2'	36:1:3238:G:O4'	2.21	0.41
36:1:3305:A:C6	36:1:3306:U:C4	3.08	0.41
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	2.01	0.41
46:L9:90:MET:HA	46:L9:180:TYR:O	2.20	0.41
48:M1:80:LEU:HD23	48:M1:80:LEU:HA	1.79	0.41
48:M1:154:THR:O	48:M1:154:THR:OG1	2.37	0.41
50:M4:53:VAL:HA	50:M4:54:PRO:HD3	1.74	0.41
51:M5:51:LEU:HD23	51:M5:51:LEU:HA	1.80	0.41
52:M6:73:PHE:CD1	52:M6:78:ARG:HG2	2.55	0.41
55:M9:81:ARG:HG3	55:M9:88:ARG:NH1	2.35	0.41
62:N6:71:SER:HB3	62:N6:83:ASP:N	2.35	0.41
64:N8:47:LYS:HE3	64:N8:48:TYR:CE2	2.53	0.41
64:N8:96:LYS:O	64:N8:98:THR:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:36:ASP:HA	65:N9:37:PRO:HD3	1.90	0.41
69:O3:13:HIS:ND1	69:O3:93:THR:HB	2.35	0.41
72:O6:57:LEU:HD21	72:O6:73:ALA:HB2	2.02	0.41
74:O8:69:LEU:HA	74:O8:70:PRO:HD3	1.94	0.41
76:Q0:96:CYS:O	76:Q0:98:LYS:N	2.53	0.41
78:Q2:35:LEU:HB3	78:Q2:40:LYS:HG2	2.02	0.41
1:6:76:A:H2'	86:6:2192:OHX:N2	2.34	0.41
1:6:763:G:H2'	1:6:764:U:H6	1.84	0.41
1:6:1150:G:H5''	1:6:1151:A:O5'	2.20	0.41
1:6:1171:A:HO2'	1:6:1570:A:HO2'	1.68	0.41
1:6:1318:G:N7	86:6:2165:OHX:N5	2.68	0.41
1:6:1737:G:H2'	1:6:1738:U:O4'	2.19	0.41
3:s1:175:GLU:HG3	3:s1:187:LYS:HZ2	1.86	0.41
7:s5:45:LYS:HD3	7:s5:45:LYS:HA	1.40	0.41
8:s6:11:GLY:O	8:s6:129:VAL:HG13	2.21	0.41
9:s7:169:PHE:O	9:s7:172:VAL:HB	2.20	0.41
11:s9:97:LEU:HD23	11:s9:97:LEU:HA	1.78	0.41
15:c3:56:ASP:HA	29:d7:47:PHE:HB3	2.02	0.41
16:c4:42:VAL:HG21	16:c4:66:ASP:CB	2.51	0.41
16:c4:48:VAL:HG22	16:c4:49:LYS:N	2.33	0.41
18:c6:113:ASP:CG	18:c6:115:THR:H	2.29	0.41
22:d0:63:LEU:HB3	31:d9:34:TYR:CE2	2.55	0.41
23:d1:3:ASN:OD1	23:d1:3:ASN:C	2.62	0.41
29:d7:53:ALA:HB1	29:d7:62:ILE:HD11	2.02	0.41
31:d9:19:ARG:HD3	31:d9:32:ARG:NH1	2.35	0.41
34:sR:31:ASN:C	34:sR:47:LEU:HG	2.45	0.41
36:5:361:A:H5'	73:o7:35:SER:OG	2.20	0.41
36:5:415:G:H1	38:8:8:C:N4	2.18	0.41
36:5:807:A:N7	36:5:2411:U:O2'	2.50	0.41
36:5:1093:A:C2	36:5:1096:U:O2	2.74	0.41
36:5:1366:A:O3'	68:o2:45:ARG:NH2	2.53	0.41
36:5:1839:A:OP2	86:5:4075:OHX:N6	2.52	0.41
36:5:1845:G:O2'	73:o7:5:THR:HG23	2.21	0.41
36:5:1861:G:C6	36:5:1862:U:C4	3.08	0.41
36:5:1928:G:C6	36:5:1929:G:C4	3.08	0.41
36:5:2297:U:C2	36:5:2299:A:C6	3.09	0.41
36:5:2440:G:O2'	36:5:2441:A:OP1	2.32	0.41
36:5:2704:A:OP2	86:5:3892:OHX:N2	2.53	0.41
86:5:4029:OHX:N3	86:5:4232:OHX:N1	2.68	0.41
39:l2:214:GLY:O	39:l2:215:ASN:HB2	2.19	0.41
40:l3:194:TRP:CE2	40:l3:198:HIS:CE1	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:191:LYS:HD3	41:l4:194:TYR:CZ	2.56	0.41
41:l4:208:VAL:HG23	41:l4:248:VAL:HG13	2.03	0.41
42:l5:55:PHE:CE1	42:l5:158:ARG:HG2	2.55	0.41
43:l6:96:VAL:HG12	43:l6:98:VAL:HG23	2.02	0.41
49:m3:165:SER:O	49:m3:169:THR:OG1	2.36	0.41
52:m6:97:ALA:O	52:m6:100:GLU:HB2	2.19	0.41
52:m6:112:TYR:O	52:m6:114:LYS:N	2.53	0.41
54:m8:60:PRO:HG3	54:m8:144:ARG:CA	2.51	0.41
55:m9:156:ASN:HA	55:m9:159:ALA:HB3	2.02	0.41
62:n6:57:LEU:HD12	62:n6:59:VAL:HG12	2.02	0.41
63:n7:87:LEU:HD12	63:n7:127:ASN:ND2	2.34	0.41
69:o3:72:THR:OG1	69:o3:73:ARG:HG2	2.20	0.41
1:2:11:A:O2'	1:2:12:U:H5'	2.21	0.41
1:2:56:U:H4'	1:2:57:G:C5'	2.50	0.41
1:2:294:C:H5'	6:S4:133:LYS:HE3	2.03	0.41
1:2:775:G:C5	26:D4:11:LYS:NZ	2.89	0.41
1:2:834:G:C6	1:2:835:U:C4	3.08	0.41
1:2:1362:U:H6	1:2:1362:U:H2'	1.68	0.41
1:2:1479:A:H2'	1:2:1480:G:C8	2.52	0.41
1:2:1492:A:N3	1:2:1493:A:H8	2.18	0.41
1:2:1549:C:OP1	17:C5:38:PRO:HA	2.21	0.41
1:2:1603:U:H2'	1:2:1604:U:C6	2.55	0.41
1:2:1663:G:C2	1:2:1664:C:C2	3.08	0.41
3:S1:36:SER:HB2	3:S1:231:LEU:HB3	2.01	0.41
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.19	0.41
3:S1:206:PRO:HB2	3:S1:207:LEU:H	1.67	0.41
4:S2:73:LEU:HA	4:S2:74:PRO:HD3	1.81	0.41
7:S5:113:ILE:HG23	7:S5:191:ALA:HB2	2.02	0.41
18:C6:57:LEU:H	18:C6:57:LEU:HD12	1.85	0.41
18:C6:86:ALA:O	18:C6:90:VAL:HG13	2.20	0.41
21:C9:34:VAL:HG23	21:C9:53:TRP:NE1	2.36	0.41
21:C9:40:SER:OG	21:C9:96:ALA:HA	2.20	0.41
22:D0:29:THR:HG22	22:D0:86:ILE:HA	2.02	0.41
22:D0:41:ILE:HG13	22:D0:103:ILE:HD12	2.02	0.41
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.89	0.41
29:D7:81:ARG:HG2	29:D7:82:LYS:H	1.86	0.41
34:SR:78:ALA:O	34:SR:94:VAL:N	2.37	0.41
34:SR:152:SER:OG	34:SR:153:GLN:N	2.48	0.41
36:1:590:G:C2	36:1:610:G:H2'	2.55	0.41
36:1:1488:G:C2	36:1:1489:A:C8	3.08	0.41
36:1:1538:G:N7	86:1:4132:OHX:N1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1675:G:N2	36:1:1773:C:C5	2.89	0.41
36:1:2294:U:OP2	59:N3:71:LYS:HE2	2.21	0.41
36:1:3024:A:H5''	46:L9:96:HIS:CD2	2.55	0.41
36:1:3078:U:H4'	36:1:3079:U:O5'	2.21	0.41
36:1:3372:A:H2'	36:1:3373:U:O4'	2.19	0.41
86:1:4014:OHX:N6	86:1:4052:OHX:N2	2.68	0.41
37:3:42:A:H2'	37:3:43:U:H6	1.86	0.41
37:3:90:U:C5	37:3:91:G:N7	2.89	0.41
38:4:76:C:H2'	38:4:77:A:C8	2.55	0.41
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.20	0.41
39:L2:247:ARG:H	39:L2:247:ARG:HG2	1.54	0.41
51:M5:60:VAL:HG21	51:M5:113:LEU:HD21	2.03	0.41
51:M5:73:ARG:HA	51:M5:74:PRO:HD3	1.57	0.41
55:M9:127:SER:C	55:M9:129:GLY:N	2.79	0.41
55:M9:138:LEU:O	55:M9:138:LEU:HD23	2.20	0.41
58:N2:97:SER:HA	58:N2:103:TYR:HD1	1.85	0.41
59:N3:95:PHE:HE1	60:N4:22:VAL:HG11	1.85	0.41
61:N5:80:ASN:C	61:N5:81:ILE:HD12	2.46	0.41
62:N6:56:VAL:HA	62:N6:107:THR:HG23	2.02	0.41
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	2.03	0.41
66:O0:100:ILE:HG13	66:O0:100:ILE:H	1.61	0.41
67:O1:71:LEU:HD23	67:O1:71:LEU:HA	1.55	0.41
70:O4:3:GLN:HG2	70:O4:4:ARG:N	2.35	0.41
71:O5:74:LYS:HD3	71:O5:75:TYR:CZ	2.56	0.41
71:O5:100:VAL:HG22	71:O5:104:GLN:HB3	2.03	0.41
75:O9:43:ASN:OD1	75:O9:43:ASN:C	2.62	0.41
1:6:87:C:C4	1:6:88:U:C5	3.09	0.41
1:6:1147:A:N6	1:6:1629:G:O6	2.53	0.41
1:6:1160:A:H2'	1:6:1161:C:C5	2.55	0.41
1:6:1228:G:H2'	1:6:1228:G:N3	2.35	0.41
1:6:1406:A:H2'	1:6:1407:U:C6	2.55	0.41
1:6:1608:U:H2'	1:6:1609:U:H6	1.85	0.41
1:6:1795:U:H3'	28:d6:5:ARG:HH12	1.84	0.41
2:s0:154:GLU:O	2:s0:156:VAL:HG13	2.20	0.41
3:s1:180:THR:H	3:s1:183:GLN:HB2	1.85	0.41
5:s3:108:LYS:O	5:s3:113:LEU:HB2	2.20	0.41
5:s3:202:LEU:HD13	5:s3:202:LEU:HA	1.97	0.41
7:s5:129:PRO:O	7:s5:132:VAL:HB	2.20	0.41
7:s5:144:GLU:CD	30:d8:57:MET:HG3	2.46	0.41
8:s6:56:ASN:HB2	8:s6:108:VAL:HG22	2.02	0.41
8:s6:106:LEU:H	8:s6:106:LEU:HG	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:c5:10:ARG:HD3	17:c5:10:ARG:HA	1.84	0.41
17:c5:18:ARG:NH1	20:c8:90:ASN:HD21	2.18	0.41
31:d9:53:ASN:HB2	31:d9:55:PHE:CE2	2.55	0.41
36:5:422:A:N3	36:5:2363:A:H4'	2.36	0.41
36:5:715:A:H4'	36:5:716:A:OP1	2.20	0.41
36:5:817:A:H4'	36:5:818:C:OP2	2.20	0.41
36:5:1179:A:N3	36:5:1328:C:H1'	2.35	0.41
36:5:1204:A:H2'	36:5:1205:A:H5'	2.03	0.41
36:5:1338:C:H2'	36:5:1339:C:H6	1.85	0.41
36:5:1928:G:O2'	79:q3:16:VAL:HG21	2.20	0.41
36:5:2211:U:OP1	86:5:4218:OHX:N5	2.54	0.41
36:5:2256:A:OP2	36:5:2256:A:C8	2.73	0.41
36:5:2403:G:N7	36:5:2870:C:H4'	2.35	0.41
36:5:3164:C:H2'	36:5:3164:C:OP2	2.19	0.41
37:7:121:U:C5	42:l5:260:PHE:CG	3.08	0.41
38:8:66:A:OP1	71:o5:10:ARG:NH2	2.53	0.41
39:l2:140:ASN:CG	39:l2:142:ASP:HB3	2.46	0.41
39:l2:177:LYS:HA	39:l2:178:PRO:HD3	1.93	0.41
40:l3:28:ARG:HH21	40:l3:30:LYS:NZ	2.18	0.41
43:l6:36:PRO:HA	43:l6:54:TYR:CD1	2.55	0.41
44:l7:98:LYS:O	44:l7:102:VAL:HG23	2.21	0.41
45:l8:109:LEU:HD13	45:l8:109:LEU:HA	1.89	0.41
45:l8:214:LEU:HD12	45:l8:214:LEU:HA	1.71	0.41
47:m0:53:VAL:O	47:m0:164:LYS:N	2.42	0.41
47:m0:99:ILE:O	47:m0:120:GLY:HA2	2.19	0.41
62:n6:27:ARG:O	62:n6:31:LEU:HD12	2.20	0.41
62:n6:52:ARG:HA	62:n6:70:ILE:CG2	2.50	0.41
64:n8:79:TRP:CE3	64:n8:82:ILE:HD12	2.56	0.41
71:o5:31:LEU:HD23	71:o5:41:LEU:HD21	2.01	0.41
73:o7:24:ARG:HB2	73:o7:26:SER:OG	2.21	0.41
75:o9:17:LYS:O	75:o9:20:ASN:N	2.31	0.41
81:p0:193:ASN:OD1	81:p0:193:ASN:N	2.54	0.41
1:2:685:A:O2'	1:2:686:C:OP1	2.34	0.41
1:2:779:U:O2'	1:2:780:A:H5'	2.20	0.41
1:2:975:C:H5'	15:C3:109:LYS:HE2	2.02	0.41
1:2:1154:G:N2	1:2:1155:G:H1'	2.36	0.41
1:2:1653:C:C2	1:2:1748:G:C2	3.08	0.41
3:S1:29:TRP:HZ3	3:S1:45:LYS:HD2	1.84	0.41
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	2.02	0.41
7:S5:56:ALA:O	7:S5:57:SER:OG	2.23	0.41
17:C5:129:GLY:C	17:C5:130:ARG:HG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:83:GLN:OE1	18:C6:119:ALA:HA	2.21	0.41
18:C6:93:HIS:HA	18:C6:97:VAL:CG2	2.50	0.41
19:C7:24:LEU:O	19:C7:25:THR:HG23	2.21	0.41
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.35	0.41
25:D3:19:ARG:HG3	25:D3:23:ARG:HG2	2.03	0.41
33:E1:105:TYR:CG	33:E1:118:ARG:HD3	2.56	0.41
35:SM:84:LYS:HG2	35:SM:86:ASN:N	2.32	0.41
36:1:287:G:H8	36:1:287:G:O5'	2.04	0.41
36:1:776:U:O2	36:1:2720:G:N2	2.54	0.41
36:1:813:G:C2	36:1:814:U:C6	3.08	0.41
36:1:822:G:H1'	39:L2:15:ILE:HG22	2.03	0.41
36:1:1209:G:H2'	36:1:1210:U:O4'	2.21	0.41
36:1:1306:G:C5	52:M6:62:THR:HA	2.55	0.41
36:1:1307:G:H5'	52:M6:60:LYS:HE3	2.02	0.41
36:1:1473:G:H2'	36:1:1474:A:O4'	2.21	0.41
36:1:1670:C:H4'	36:1:1859:A:O3'	2.21	0.41
36:1:1697:A:C8	36:1:1698:C:C5	3.09	0.41
36:1:1815:U:O2'	36:1:1816:A:P	2.79	0.41
36:1:2248:C:OP2	86:1:3874:OHX:N3	2.54	0.41
36:1:2359:C:O5'	36:1:2359:C:H6	2.02	0.41
36:1:2437:G:C5	36:1:2511:A:C2	3.09	0.41
36:1:3275:U:H3'	36:1:3276:G:H5''	2.02	0.41
37:3:23:A:C6	37:3:24:A:C6	3.08	0.41
37:3:91:G:H22	47:M0:56:GLU:CD	2.29	0.41
37:3:115:G:H2'	37:3:116:C:C6	2.55	0.41
38:4:79:A:H3'	38:4:80:A:H4'	2.02	0.41
38:4:145:U:H2'	38:4:146:U:C6	2.56	0.41
40:L3:139:GLN:OE1	40:L3:142:ALA:HB3	2.21	0.41
41:L4:136:LEU:HA	41:L4:136:LEU:HD23	1.72	0.41
46:L9:176:LEU:HD23	46:L9:176:LEU:HA	1.84	0.41
47:M0:138:VAL:HG21	47:M0:148:VAL:HG13	2.02	0.41
49:M3:101:ARG:HH21	49:M3:112:ASN:ND2	2.19	0.41
73:O7:18:LEU:HA	73:O7:25:ARG:HA	2.03	0.41
75:O9:9:ILE:HD12	75:O9:51:ILE:HG22	2.02	0.41
77:Q1:2:ARG:HG2	77:Q1:4:LYS:HB3	2.03	0.41
1:6:60:U:H5'	1:6:61:A:OP2	2.20	0.41
1:6:66:U:OP1	8:s6:136:LYS:NZ	2.29	0.41
1:6:169:A:OP1	8:s6:137:ARG:NH2	2.53	0.41
1:6:189:C:C2'	1:6:190:C:H5'	2.50	0.41
1:6:625:C:H2'	1:6:626:U:C6	2.55	0.41
1:6:742:U:O4'	9:s7:104:ARG:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:808:U:H2'	1:6:809:A:C8	2.55	0.41
1:6:1235:C:O2'	33:e1:149:LYS:HD3	2.20	0.41
1:6:1274:C:C4	1:6:1427:A:N7	2.88	0.41
1:6:1794:A:H1'	28:d6:79:ILE:HD12	2.01	0.41
2:s0:180:GLU:HA	2:s0:183:ARG:HB2	2.02	0.41
3:s1:46:THR:OG1	3:s1:47:LEU:N	2.54	0.41
3:s1:124:ASN:HB3	3:s1:138:PHE:CD1	2.55	0.41
4:s2:49:LYS:HB3	4:s2:243:TYR:CE1	2.55	0.41
5:s3:11:LEU:CD1	22:d0:29:THR:HG23	2.51	0.41
6:s4:125:LYS:HB2	6:s4:226:PHE:CE1	2.55	0.41
11:s9:84:GLY:O	11:s9:107:ARG:HD3	2.19	0.41
13:c1:83:THR:HA	13:c1:111:VAL:H	1.83	0.41
15:c3:84:ILE:HA	15:c3:85:PRO:HD3	1.76	0.41
20:c8:45:LEU:HA	20:c8:48:LYS:HG3	2.03	0.41
22:d0:43:LYS:O	22:d0:47:GLN:N	2.43	0.41
22:d0:118:VAL:HG22	22:d0:119:ALA:N	2.35	0.41
24:d2:98:GLN:O	24:d2:99:PHE:HB3	2.21	0.41
25:d3:24:TRP:HE3	25:d3:30:LYS:HG3	1.86	0.41
31:d9:14:TYR:C	31:d9:14:TYR:HD2	2.27	0.41
36:5:73:C:OP1	72:o6:14:GLY:HA2	2.19	0.41
36:5:189:G:C2	36:5:191:U:C4	3.09	0.41
36:5:579:G:OP2	41:l4:335:ALA:HB1	2.20	0.41
36:5:680:G:N1	36:5:701:G:C6	2.89	0.41
36:5:891:G:OP1	86:5:3909:OHX:N6	2.54	0.41
36:5:1037:C:H2'	36:5:1038:C:C6	2.56	0.41
36:5:1114:U:H2'	36:5:1115:G:O4'	2.20	0.41
36:5:1276:U:OP2	86:5:4000:OHX:N1	2.52	0.41
36:5:1298:C:O3'	76:q0:113:ARG:NH1	2.53	0.41
36:5:1312:C:H2'	36:5:1313:G:O4'	2.20	0.41
36:5:1460:A:H2'	36:5:1461:A:C8	2.55	0.41
36:5:1543:G:C6	36:5:1544:G:N7	2.89	0.41
36:5:1610:G:C6	36:5:1611:G:C6	3.08	0.41
36:5:2403:G:C2	36:5:2405:C:C4	3.09	0.41
36:5:2608:G:O2'	36:5:2609:A:H5'	2.20	0.41
36:5:3168:A:H2'	36:5:3169:U:O4'	2.20	0.41
36:5:3288:G:OP2	36:5:3288:G:H2'	2.20	0.41
37:7:75:G:OP1	86:7:218:OHX:N5	2.54	0.41
37:7:76:A:OP2	86:7:218:OHX:N3	2.53	0.41
38:8:83:C:H4'	38:8:85:G:N2	2.35	0.41
42:l5:88:ILE:HD11	42:l5:243:ALA:CB	2.51	0.41
42:l5:152:ARG:CG	42:l5:152:ARG:HH11	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:177:GLU:C	42:l5:179:ARG:H	2.29	0.41
44:l7:96:PRO:O	44:l7:99:PRO:HD2	2.20	0.41
44:l7:151:ARG:NH1	44:l7:244:ASN:O	2.54	0.41
49:m3:174:ARG:HD3	72:o6:9:ILE:HD12	2.03	0.41
53:m7:112:LEU:HA	53:m7:112:LEU:HD12	1.75	0.41
56:n0:42:TRP:HZ2	56:n0:58:ILE:HG12	1.86	0.41
62:n6:89:LYS:O	62:n6:92:GLY:N	2.49	0.41
62:n6:126:LEU:HB3	62:n6:127:GLU:H	1.59	0.41
72:o6:26:ILE:H	72:o6:26:ILE:HG13	1.47	0.41
74:o8:5:ILE:HG23	74:o8:54:LEU:HD13	2.03	0.41
78:q2:65:THR:OG1	78:q2:87:ARG:HD2	2.19	0.41
1:2:78:A:C8	8:S6:154:ARG:HG2	2.56	0.41
1:2:462:G:C5	1:2:463:U:C5	3.09	0.41
1:2:1158:C:H6	1:2:1158:C:H2'	1.68	0.41
1:2:1248:C:H2'	1:2:1249:U:C6	2.56	0.41
1:2:1294:G:C2	1:2:1295:G:C8	3.09	0.41
1:2:1617:U:O2'	1:2:1618:C:H5'	2.21	0.41
1:2:1746:A:H3'	1:2:1747:G:H8	1.86	0.41
1:2:1756:A:H2'	1:2:1757:G:H8	1.85	0.41
3:S1:32:ILE:HB	3:S1:44:GLY:N	2.36	0.41
3:S1:181:LEU:O	3:S1:182:ALA:C	2.64	0.41
4:S2:52:THR:HA	4:S2:72:LEU:HD12	2.03	0.41
7:S5:169:ASN:OD1	7:S5:169:ASN:N	2.48	0.41
7:S5:204:GLY:C	7:S5:206:SER:H	2.28	0.41
7:S5:225:ARG:NH1	30:D8:58:GLU:HG2	2.35	0.41
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.53	0.41
17:C5:54:ALA:O	17:C5:58:LYS:HG3	2.21	0.41
18:C6:82:ARG:H	18:C6:82:ARG:HG2	1.63	0.41
20:C8:6:GLN:NE2	20:C8:6:GLN:HA	2.34	0.41
21:C9:97:SER:C	21:C9:99:SER:H	2.29	0.41
22:D0:46:GLU:HA	22:D0:46:GLU:OE1	2.20	0.41
26:D4:89:TYR:O	26:D4:92:VAL:HB	2.21	0.41
33:E1:113:LYS:HE3	33:E1:113:LYS:HB3	1.85	0.41
36:1:8:C:H2'	36:1:9:U:O4'	2.20	0.41
36:1:115:A:H8	36:1:115:A:OP2	2.04	0.41
36:1:175:C:H2'	36:1:176:G:O4'	2.21	0.41
36:1:279:U:H2'	36:1:280:U:C6	2.56	0.41
36:1:394:G:N1	36:1:397:A:OP2	2.54	0.41
36:1:527:A:H2'	36:1:528:U:O4'	2.21	0.41
36:1:559:A:N7	36:1:560:G:C8	2.89	0.41
36:1:597:G:N3	36:1:598:A:C8	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:598:A:H1'	41:L4:322:GLN:HE22	1.84	0.41
36:1:966:U:C2	36:1:967:A:C8	3.08	0.41
36:1:1003:A:C2'	36:1:1004:U:H5'	2.50	0.41
36:1:1286:A:N3	36:1:1287:A:H1'	2.35	0.41
36:1:1383:G:H4'	41:L4:240:PRO:O	2.19	0.41
36:1:1394:A:H2'	36:1:1395:G:O4'	2.20	0.41
36:1:1491:A:O5'	36:1:1491:A:H8	2.04	0.41
36:1:1673:G:H2'	36:1:1674:G:H8	1.86	0.41
36:1:1681:U:O4	58:N2:81:LYS:HE3	2.21	0.41
36:1:1712:G:C6	36:1:1713:G:C6	3.09	0.41
36:1:1856:C:H2'	36:1:1857:C:C6	2.56	0.41
36:1:2517:U:H2'	36:1:2518:C:H6	1.85	0.41
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.55	0.41
37:3:38:U:H6	37:3:38:U:H5''	1.86	0.41
41:L4:209:TYR:CZ	41:L4:229:ASN:HB2	2.55	0.41
41:L4:304:GLN:O	41:L4:306:THR:N	2.45	0.41
43:L6:158:TYR:CE1	50:M4:115:PHE:HA	2.56	0.41
44:L7:161:VAL:HG12	44:L7:162:PRO:O	2.20	0.41
47:M0:98:ARG:CZ	47:M0:119:TRP:CZ3	3.03	0.41
49:M3:91:ARG:CZ	49:M3:97:VAL:HB	2.51	0.41
52:M6:179:ALA:C	52:M6:181:ALA:H	2.29	0.41
53:M7:84:PRO:O	53:M7:88:VAL:HG23	2.21	0.41
55:M9:10:LEU:HD12	55:M9:10:LEU:HA	1.86	0.41
55:M9:96:ILE:HG22	55:M9:100:ARG:HG3	2.01	0.41
65:N9:18:ARG:H	65:N9:18:ARG:HG2	1.49	0.41
1:6:72:A:N6	8:s6:169:TYR:CD1	2.89	0.41
1:6:249:U:H3'	1:6:250:C:C5'	2.50	0.41
1:6:493:U:H2'	1:6:494:U:H5''	2.03	0.41
1:6:628:G:H8	1:6:628:G:O5'	2.04	0.41
1:6:639:U:H3	9:s7:100:PRO:HA	1.86	0.41
1:6:704:C:H2'	1:6:705:U:O4'	2.20	0.41
1:6:745:U:C2	1:6:807:A:C2	3.08	0.41
1:6:895:G:O2'	16:c4:37:GLU:HA	2.21	0.41
1:6:1231:U:H2'	1:6:1232:U:C6	2.56	0.41
1:6:1616:G:H4'	30:d8:18:ARG:HH11	1.85	0.41
1:6:1698:G:HO2'	1:6:1699:G:P	2.39	0.41
3:s1:22:ASP:HA	3:s1:23:PRO:HD3	1.70	0.41
4:s2:148:LEU:HA	23:d1:4:ASP:OD2	2.21	0.41
7:s5:161:ASP:OD2	30:d8:42:ARG:HD2	2.21	0.41
7:s5:205:SER:O	7:s5:206:SER:HB2	2.19	0.41
7:s5:208:SER:HB3	7:s5:211:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:64:VAL:HG12	9:s7:65:PRO:N	2.35	0.41
11:s9:65:LYS:HD3	11:s9:70:LEU:HD11	2.02	0.41
13:c1:34:TRP:CH2	13:c1:36:LYS:HD3	2.56	0.41
21:c9:68:ARG:HB3	21:c9:69:LYS:H	1.71	0.41
36:5:197:G:H2'	36:5:198:A:O4'	2.20	0.41
36:5:432:G:OP1	69:o3:57:LYS:HB2	2.21	0.41
36:5:590:G:OP1	68:o2:62:LYS:NZ	2.45	0.41
36:5:764:U:O5'	36:5:764:U:H6	2.03	0.41
36:5:769:G:OP1	49:m3:175:SER:OG	2.38	0.41
36:5:815:G:C6	36:5:906:A:C4	3.08	0.41
36:5:1363:A:OP2	86:5:4194:OHX:N3	2.54	0.41
36:5:1611:G:H2'	36:5:1612:A:C8	2.56	0.41
36:5:1641:U:O2'	36:5:1642:A:H3'	2.20	0.41
36:5:2185:G:OP1	39:l2:202:VAL:HB	2.21	0.41
36:5:2291:A:C6	36:5:2292:U:C4	3.08	0.41
36:5:2428:U:O4	86:5:4211:OHX:N5	2.53	0.41
36:5:2507:C:HO2'	36:5:2508:U:P	2.38	0.41
36:5:2509:U:H2'	36:5:2510:U:H5'	2.01	0.41
36:5:2778:G:H2'	36:5:2779:A:H5'	2.02	0.41
36:5:2783:U:O2	36:5:2783:U:H2'	2.21	0.41
36:5:3022:G:O2'	36:5:3031:G:O6	2.34	0.41
36:5:3231:U:H2'	36:5:3232:G:H8	1.85	0.41
36:5:3242:G:C6	36:5:3245:A:C2	3.08	0.41
36:5:3299:A:H4'	53:m7:55:GLN:OE1	2.20	0.41
40:l3:84:VAL:HG22	40:l3:85:VAL:N	2.36	0.41
40:l3:221:THR:HB	40:l3:273:HIS:O	2.20	0.41
42:l5:90:HIS:NE2	42:l5:229:ASP:OD2	2.54	0.41
42:l5:196:ARG:O	42:l5:199:ILE:HB	2.21	0.41
42:l5:219:PHE:C	42:l5:221:GLU:H	2.29	0.41
46:l9:106:LYS:HE3	46:l9:107:ASP:H	1.85	0.41
48:m1:102:PHE:CD1	48:m1:102:PHE:C	2.99	0.41
49:m3:79:GLU:OE2	49:m3:101:ARG:NH2	2.54	0.41
56:n0:144:LEU:HA	56:n0:144:LEU:HD23	1.67	0.41
60:n4:9:SER:O	60:n4:53:VAL:HG23	2.21	0.41
62:n6:102:SER:O	62:n6:103:LYS:HD3	2.20	0.41
64:n8:19:LYS:HD2	64:n8:25:HIS:ND1	2.35	0.41
64:n8:34:MET:HE2	64:n8:34:MET:HA	2.02	0.41
65:n9:23:LYS:HB3	65:n9:24:PRO:CD	2.50	0.41
72:o6:4:LYS:HD2	72:o6:12:ASN:O	2.20	0.41
1:2:337:G:H3'	13:C1:133:LYS:HB2	2.01	0.41
1:2:376:C:H2'	1:2:377:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:377:G:O6	86:2:2077:OHX:N5	2.54	0.41
1:2:795:U:H5	1:2:796:A:C5	2.39	0.41
1:2:813:U:H4'	1:2:814:A:OP2	2.21	0.41
1:2:1225:U:O2	1:2:1230:A:O2'	2.38	0.41
1:2:1243:G:OP1	86:2:2046:OHX:N4	2.53	0.41
1:2:1380:U:H2'	1:2:1381:U:O4'	2.21	0.41
1:2:1433:G:H22	31:D9:45:GLU:CD	2.28	0.41
1:2:1739:C:H2'	1:2:1740:A:H8	1.85	0.41
3:S1:70:LEU:HD21	3:S1:79:HIS:NE2	2.36	0.41
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.70	0.41
8:S6:27:PHE:CE1	8:S6:36:VAL:HG11	2.56	0.41
9:S7:84:LYS:HA	9:S7:84:LYS:HD3	1.92	0.41
9:S7:141:ARG:HH21	9:S7:143:LEU:CD1	2.31	0.41
15:C3:26:PHE:HA	15:C3:27:LYS:HE3	2.02	0.41
21:C9:131:ASP:O	21:C9:134:ARG:HB3	2.21	0.41
22:D0:68:ARG:NH2	22:D0:70:THR:HG21	2.35	0.41
28:D6:19:LYS:HG3	28:D6:20:PRO:HD2	2.01	0.41
36:1:172:G:C6	36:1:173:G:C5	3.09	0.41
36:1:383:G:N7	86:1:4089:OHX:N6	2.68	0.41
36:1:397:A:C2	36:1:399:A:C4	3.09	0.41
36:1:1246:G:N2	36:1:1265:U:H5	2.19	0.41
36:1:1269:U:H6	36:1:1272:C:H5	1.69	0.41
36:1:1486:G:H21	70:O4:6:THR:HG22	1.86	0.41
36:1:1577:G:H2'	36:1:1578:C:C1'	2.51	0.41
36:1:1599:G:H1	36:1:1608:C:N4	2.17	0.41
36:1:2247:G:H5''	36:1:2248:C:OP2	2.20	0.41
36:1:3204:C:H2'	36:1:3205:G:C8	2.56	0.41
86:1:4050:OHX:N4	86:1:4160:OHX:N1	2.67	0.41
39:L2:107:VAL:HG11	39:L2:111:THR:HG21	2.01	0.41
41:L4:174:ALA:O	41:L4:177:ASP:N	2.49	0.41
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.21	0.41
44:L7:210:PRO:CD	44:L7:243:MET:HG2	2.49	0.41
45:L8:160:ILE:H	45:L8:160:ILE:HG12	1.53	0.41
46:L9:94:TYR:HB2	46:L9:95:ALA:H	1.62	0.41
47:M0:15:LYS:H	47:M0:15:LYS:HG2	1.67	0.41
49:M3:115:ARG:CZ	49:M3:147:ILE:HG12	2.51	0.41
54:M8:22:ASP:C	54:M8:27:LYS:HE2	2.46	0.41
59:N3:13:ILE:HG12	59:N3:53:SER:CB	2.50	0.41
59:N3:82:ALA:HA	59:N3:95:PHE:H	1.86	0.41
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	2.02	0.41
1:6:86:A:H2'	1:6:87:C:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:452:A:H3'	1:6:453:U:C5	2.56	0.41
1:6:542:A:H8	1:6:543:C:H5'	1.85	0.41
1:6:555:A:O2'	1:6:556:A:H5'	2.21	0.41
1:6:702:G:N7	86:6:2098:OHX:N4	2.68	0.41
1:6:940:A:C4	1:6:941:A:C8	3.08	0.41
1:6:1146:G:H2'	1:6:1147:A:O4'	2.20	0.41
2:s0:170:ILE:O	2:s0:174:TRP:HD1	2.02	0.41
2:s0:200:ASP:OD1	2:s0:200:ASP:N	2.54	0.41
3:s1:222:LYS:O	3:s1:223:PHE:C	2.63	0.41
8:s6:48:TYR:CE2	8:s6:121:LEU:HD22	2.55	0.41
10:s8:183:ILE:HG23	10:s8:185:GLU:OE1	2.20	0.41
15:c3:88:LEU:O	15:c3:92:ILE:HG13	2.20	0.41
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	2.01	0.41
17:c5:123:TYR:CE1	20:c8:122:HIS:HE1	2.38	0.41
22:d0:37:VAL:HG13	22:d0:107:THR:HG22	2.03	0.41
23:d1:5:LYS:NZ	23:d1:5:LYS:HB3	2.36	0.41
23:d1:69:LEU:HD23	23:d1:69:LEU:HA	1.66	0.41
31:d9:16:LYS:H	31:d9:16:LYS:HG2	1.67	0.41
36:5:180:C:O2	36:5:237:G:C2	2.74	0.41
36:5:380:U:C2	36:5:390:G:N2	2.88	0.41
36:5:651:G:H2'	36:5:652:G:O4'	2.21	0.41
36:5:703:G:O2'	36:5:787:G:H4'	2.20	0.41
36:5:748:U:H5''	65:n9:31:SER:HA	2.02	0.41
36:5:891:G:C6	36:5:892:U:C4	3.09	0.41
36:5:933:A:C2	41:l4:98:ARG:CZ	3.04	0.41
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.36	0.41
36:5:950:G:OP1	54:m8:8:LYS:HE2	2.20	0.41
36:5:971:G:O2'	36:5:972:A:H5'	2.21	0.41
36:5:1239:C:H42	36:5:1249:G:H1	1.69	0.41
36:5:1348:U:C5	36:5:1355:A:C8	3.07	0.41
36:5:1521:G:C2	36:5:1522:U:C5	3.09	0.41
36:5:1692:U:O4	36:5:1693:C:N4	2.54	0.41
36:5:1741:A:H2'	36:5:1742:U:O4'	2.21	0.41
36:5:2117:A:H3'	36:5:2118:C:H6	1.86	0.41
36:5:2154:U:O3'	39:l2:240:ALA:HA	2.20	0.41
36:5:2325:G:N3	36:5:2325:G:H2'	2.36	0.41
36:5:2415:C:H5''	39:l2:207:VAL:HG12	2.03	0.41
36:5:2549:G:H8	36:5:2549:G:H2'	1.67	0.41
36:5:2888:U:C6	36:5:2911:A:N6	2.88	0.41
36:5:2943:G:H8	36:5:2943:G:O5'	2.02	0.41
36:5:3000:A:C2	36:5:3149:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3004:C:H4'	40:13:99:LEU:O	2.20	0.41
36:5:3063:C:H2'	36:5:3064:U:C6	2.55	0.41
86:5:4049:OHX:N5	86:5:4194:OHX:N6	2.68	0.41
38:8:115:C:H2'	38:8:116:G:H5''	2.02	0.41
42:15:86:TYR:CG	42:15:247:ILE:HG12	2.56	0.41
43:16:34:LEU:O	43:16:54:TYR:HE1	2.03	0.41
44:17:41:ARG:O	44:17:44:ILE:HB	2.21	0.41
47:m0:47:PRO:HB3	47:m0:171:TRP:CZ2	2.55	0.41
49:m3:26:PHE:C	49:m3:28:GLN:H	2.29	0.41
49:m3:60:ALA:HA	49:m3:61:PRO:HD3	1.98	0.41
52:m6:167:TYR:O	52:m6:170:LYS:N	2.52	0.41
55:m9:23:TRP:CH2	55:m9:25:ASP:HA	2.55	0.41
57:n1:132:PRO:O	57:n1:134:GLN:HG2	2.20	0.41
61:n5:34:LEU:HD13	61:n5:34:LEU:O	2.21	0.41
63:n7:20:GLY:HA2	70:o4:89:ILE:HD13	2.02	0.41
64:n8:128:ARG:O	64:n8:129:PHE:CG	2.74	0.41
65:n9:28:LYS:C	65:n9:29:TYR:HD1	2.27	0.41
72:o6:43:LEU:O	72:o6:47:ILE:HG13	2.21	0.41
73:o7:39:TYR:CG	73:o7:40:PRO:HA	2.56	0.41
74:o8:61:LYS:O	74:o8:64:LYS:HG3	2.20	0.41
1:2:15:U:H2'	1:2:16:G:O4'	2.21	0.41
1:2:269:G:C6	1:2:287:G:C6	3.09	0.41
1:2:448:C:H5'	6:S4:29:PRO:HG3	2.02	0.41
1:2:481:A:H2'	1:2:482:U:O4'	2.21	0.41
1:2:516:G:H8	1:2:516:G:O5'	2.04	0.41
1:2:579:A:C8	5:S3:178:ARG:HD3	2.56	0.41
1:2:580:A:C6	1:2:583:C:C2	3.09	0.41
1:2:592:A:OP2	11:S9:39:LYS:HE3	2.21	0.41
1:2:602:U:H2'	1:2:603:U:C6	2.55	0.41
1:2:855:A:C2	1:2:857:U:H1'	2.56	0.41
1:2:881:A:H2'	1:2:882:U:O4'	2.21	0.41
1:2:1140:G:H2'	1:2:1141:G:H8	1.85	0.41
1:2:1313:A:C2	1:2:1315:U:H4'	2.55	0.41
1:2:1418:G:N2	1:2:1419:G:C4	2.89	0.41
1:2:1597:A:C8	31:D9:14:TYR:CD2	3.08	0.41
1:2:1641:C:H2'	1:2:1642:G:C8	2.56	0.41
1:2:1661:U:C2	1:2:1662:G:C8	3.09	0.41
2:S0:38:PHE:HB2	2:S0:49:ASN:OD1	2.20	0.41
2:S0:50:VAL:HG22	19:C7:109:LEU:HD21	2.03	0.41
2:S0:102:PHE:HZ	2:S0:107:PHE:HE1	1.68	0.41
2:S0:108:THR:HA	4:S2:64:LYS:HE3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:110:LEU:H	3:S1:110:LEU:HD12	1.86	0.41
3:S1:158:SER:O	3:S1:162:ARG:HG3	2.21	0.41
4:S2:218:ILE:C	4:S2:220:ASN:H	2.28	0.41
6:S4:136:VAL:HG13	6:S4:149:TYR:CE1	2.56	0.41
7:S5:34:GLN:O	7:S5:37:GLN:HB2	2.21	0.41
7:S5:63:GLN:HB2	7:S5:89:ILE:HG13	2.01	0.41
8:S6:202:ARG:O	8:S6:205:ALA:HB3	2.21	0.41
9:S7:15:GLU:O	9:S7:19:GLN:HG2	2.21	0.41
9:S7:35:LYS:CG	9:S7:36:ALA:H	2.30	0.41
10:S8:105:ASP:O	10:S8:107:THR:N	2.50	0.41
11:S9:110:GLN:OE1	11:S9:126:ARG:HG2	2.21	0.41
13:C1:74:THR:HG22	13:C1:122:ILE:HG13	2.03	0.41
14:C2:52:LEU:HD11	14:C2:60:VAL:HG21	2.03	0.41
15:C3:20:ARG:CZ	24:D2:56:HIS:HB3	2.51	0.41
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.21	0.41
15:C3:55:ARG:HD2	15:C3:56:ASP:OD2	2.20	0.41
15:C3:83:GLU:H	15:C3:83:GLU:HG2	1.55	0.41
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.55	0.41
20:C8:35:ILE:HB	20:C8:38:VAL:CG2	2.50	0.41
21:C9:64:HIS:CE1	21:C9:68:ARG:HH21	2.39	0.41
22:D0:47:GLN:O	22:D0:47:GLN:HG2	2.20	0.41
24:D2:53:ILE:HG12	24:D2:60:LYS:HB2	2.03	0.41
24:D2:99:PHE:CD1	24:D2:99:PHE:N	2.89	0.41
26:D4:22:GLN:HB2	26:D4:72:PHE:CZ	2.56	0.41
27:D5:59:TYR:CD2	27:D5:59:TYR:C	2.99	0.41
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.73	0.41
34:SR:123:ILE:HG21	34:SR:169:ILE:HD13	2.03	0.41
34:SR:203:THR:HG23	34:SR:245:PHE:CE2	2.56	0.41
36:1:13:A:OP2	86:1:4200:OHX:N5	2.53	0.41
36:1:25:U:O4	86:1:3862:OHX:N3	2.53	0.41
36:1:233:C:H2'	36:1:234:G:O4'	2.21	0.41
36:1:274:G:H2'	36:1:275:U:O4'	2.21	0.41
36:1:283:G:H2'	64:N8:61:PHE:CZ	2.55	0.41
36:1:346:C:C4	36:1:348:A:N7	2.89	0.41
36:1:566:G:N7	86:1:3997:OHX:N4	2.69	0.41
36:1:595:G:OP2	44:L7:30:ARG:NH2	2.54	0.41
36:1:812:G:C5	36:1:813:G:C8	3.09	0.41
36:1:996:A:C2	36:1:1054:A:C4	3.09	0.41
36:1:1138:U:H2'	36:1:1139:G:O4'	2.20	0.41
36:1:1149:G:H21	36:1:1199:C:H41	1.69	0.41
36:1:1190:A:H3'	36:1:1190:A:N3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1211:U:H2'	36:1:1212:A:H8	1.78	0.41
36:1:1322:U:H2'	36:1:1323:G:C8	2.56	0.41
36:1:1345:G:C2	36:1:1360:C:C2	3.09	0.41
36:1:1347:U:H3'	54:M8:38:ARG:HH21	1.86	0.41
36:1:1389:G:N1	36:1:1419:A:N6	2.68	0.41
36:1:1407:A:H5'	68:O2:32:TRP:HB3	2.03	0.41
36:1:1482:A:H4'	36:1:1483:G:OP2	2.21	0.41
36:1:1506:A:C2	36:1:1510:G:N1	2.89	0.41
36:1:1514:G:C2	36:1:1841:A:C6	3.09	0.41
36:1:1618:G:H4'	38:4:129:C:C1'	2.51	0.41
36:1:1670:C:O2'	36:1:1860:G:OP1	2.27	0.41
36:1:1792:C:H2'	36:1:1795:U:C5	2.56	0.41
36:1:2209:U:OP2	36:1:2209:U:H2'	2.21	0.41
36:1:2209:U:OP2	36:1:2209:U:C6	2.74	0.41
36:1:2278:C:C2	36:1:2307:G:C2	3.09	0.41
36:1:2403:G:N3	36:1:2405:C:C4	2.89	0.41
36:1:2417:U:O2'	36:1:2418:G:H5'	2.20	0.41
36:1:2560:C:O2	86:1:3919:OHX:N1	2.53	0.41
36:1:2814:G:C2	36:1:2815:G:C4	3.08	0.41
36:1:2948:C:O2'	36:1:2949:U:H5'	2.21	0.41
36:1:3090:U:O2'	36:1:3091:A:H5'	2.21	0.41
37:3:19:C:H2'	37:3:20:A:C8	2.47	0.41
37:3:85:G:O2'	44:L7:218:ARG:NH2	2.51	0.41
38:4:149:A:H2'	38:4:150:G:C8	2.56	0.41
39:L2:21:ARG:CZ	39:L2:22:LEU:HD21	2.51	0.41
39:L2:204:MET:HG2	39:L2:204:MET:H	1.70	0.41
40:L3:17:LEU:HA	40:L3:18:PRO:C	2.46	0.41
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.56	0.41
40:L3:299:ASP:OD1	40:L3:301:THR:OG1	2.31	0.41
41:L4:25:VAL:C	41:L4:27:SER:N	2.78	0.41
41:L4:209:TYR:CE2	41:L4:229:ASN:HB2	2.55	0.41
41:L4:292:SER:OG	41:L4:295:ILE:N	2.53	0.41
43:L6:78:ARG:NH1	43:L6:106:PHE:HB2	2.35	0.41
44:L7:222:HIS:CE1	44:L7:224:ILE:HG13	2.56	0.41
45:L8:78:PHE:CD1	45:L8:78:PHE:N	2.88	0.41
45:L8:122:LYS:C	45:L8:124:ASP:N	2.77	0.41
45:L8:187:GLY:O	45:L8:191:ASN:N	2.53	0.41
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	2.03	0.41
50:M4:39:ILE:HG13	50:M4:44:VAL:CA	2.51	0.41
53:M7:29:THR:HA	53:M7:32:THR:CG2	2.49	0.41
54:M8:122:ILE:CG2	54:M8:126:GLN:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:168:ALA:HB1	55:M9:172:ARG:NH2	2.36	0.41
57:N1:73:GLY:HA2	57:N1:89:LEU:O	2.20	0.41
57:N1:154:VAL:HA	57:N1:155:PRO:HD3	1.90	0.41
58:N2:28:PHE:HZ	58:N2:33:TYR:CD2	2.39	0.41
59:N3:32:ARG:CZ	59:N3:32:ARG:HB2	2.51	0.41
61:N5:73:MET:HE1	61:N5:141:TYR:CD1	2.48	0.41
62:N6:40:ARG:HD2	62:N6:46:LYS:HA	2.03	0.41
62:N6:99:LEU:HA	62:N6:99:LEU:HD23	1.71	0.41
64:N8:133:LEU:O	64:N8:134:ALA:C	2.64	0.41
66:O0:46:ALA:HB3	66:O0:73:GLY:HA2	2.02	0.41
66:O0:51:LEU:HD22	70:O4:91:ARG:CZ	2.51	0.41
68:O2:100:ILE:O	68:O2:105:ARG:HD2	2.21	0.41
70:O4:32:ALA:O	70:O4:33:GLN:HG3	2.20	0.41
70:O4:42:PRO:C	70:O4:43:LYS:HG2	2.46	0.41
72:O6:17:VAL:HG12	72:O6:18:THR:O	2.21	0.41
74:O8:8:ILE:HG12	74:O8:61:LYS:HZ3	1.85	0.41
74:O8:67:GLN:C	74:O8:69:LEU:H	2.29	0.41
74:O8:78:LEU:HD13	74:O8:78:LEU:HA	1.88	0.41
1:6:11:A:C2'	1:6:12:U:H5'	2.50	0.41
1:6:145:A:H61	1:6:169:A:H62	1.69	0.41
1:6:306:U:OP2	13:c1:105:LYS:HD2	2.21	0.41
1:6:341:A:O2'	10:s8:86:SER:O	2.28	0.41
1:6:393:C:OP2	10:s8:2:GLY:N	2.53	0.41
1:6:563:U:H4'	80:e0:17:GLN:OE1	2.21	0.41
1:6:624:G:H2'	1:6:625:C:O4'	2.21	0.41
1:6:641:G:H2'	1:6:642:G:C8	2.55	0.41
1:6:956:C:H5''	1:6:1072:C:O2'	2.21	0.41
1:6:1081:A:H1'	1:6:1082:C:C5	2.51	0.41
1:6:1105:C:P	25:d3:14:LYS:HZ3	2.44	0.41
1:6:1180:C:C4	1:6:1181:U:C4	3.09	0.41
1:6:1382:A:C4	1:6:1383:G:N7	2.88	0.41
1:6:1391:A:H2'	1:6:1392:U:H6	1.84	0.41
1:6:1450:U:O5'	1:6:1450:U:H6	2.04	0.41
1:6:1466:G:O2'	1:6:1602:C:OP1	2.36	0.41
1:6:1555:A:H5''	17:c5:44:ARG:CD	2.51	0.41
1:6:1576:A:H2'	1:6:1577:A:O4'	2.20	0.41
1:6:1699:G:N2	1:6:1702:A:O4'	2.54	0.41
1:6:1720:G:O6	86:6:2093:OHX:N4	2.53	0.41
3:s1:103:MET:HE1	3:s1:212:VAL:HG22	2.03	0.41
5:s3:101:GLN:O	5:s3:105:MET:N	2.52	0.41
5:s3:202:LEU:C	5:s3:204:ASP:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:16:HIS:ND1	6:s4:16:HIS:O	2.54	0.41
6:s4:192:ILE:HD12	6:s4:238:LEU:HD13	2.02	0.41
10:s8:81:VAL:HA	10:s8:102:VAL:HG12	2.03	0.41
13:c1:109:VAL:HB	13:c1:137:PHE:C	2.46	0.41
13:c1:132:SER:OG	13:c1:135:VAL:HB	2.21	0.41
14:c2:88:LEU:HD12	14:c2:88:LEU:HA	1.88	0.41
18:c6:44:LEU:O	18:c6:47:LYS:HB2	2.21	0.41
20:c8:26:ILE:O	20:c8:31:ALA:HB2	2.20	0.41
21:c9:20:SER:OG	21:c9:21:PHE:N	2.53	0.41
21:c9:86:ARG:HG3	21:c9:90:PRO:O	2.20	0.41
21:c9:108:LEU:HD23	21:c9:108:LEU:HA	1.90	0.41
21:c9:141:GLU:O	21:c9:143:ASP:N	2.51	0.41
22:d0:17:GLN:HG3	22:d0:18:GLN:HG3	2.02	0.41
23:d1:20:THR:O	23:d1:21:ASN:HB2	2.21	0.41
24:d2:126:LEU:HD23	24:d2:126:LEU:HA	1.75	0.41
25:d3:41:SER:OG	25:d3:43:PHE:O	2.39	0.41
26:d4:37:LYS:O	26:d4:41:ARG:N	2.41	0.41
34:sR:33:LEU:HD22	34:sR:302:PHE:CD1	2.55	0.41
36:5:18:G:N2	38:8:142:C:C2	2.88	0.41
36:5:96:G:H2'	36:5:97:U:O4'	2.21	0.41
36:5:157:A:N6	36:5:264:G:O2'	2.48	0.41
36:5:176:G:H2'	36:5:177:U:H6	1.86	0.41
36:5:422:A:N6	36:5:423:A:C6	2.89	0.41
36:5:516:A:O3'	44:l7:60:ARG:NH2	2.54	0.41
36:5:534:U:OP1	56:n0:132:THR:OG1	2.39	0.41
36:5:567:G:H2'	36:5:568:G:C8	2.56	0.41
36:5:765:C:H4'	36:5:766:U:OP1	2.19	0.41
36:5:860:G:P	39:l2:181:LYS:NZ	2.94	0.41
36:5:865:U:C5	36:5:866:A:N7	2.89	0.41
36:5:1208:U:H6	36:5:3115:C:H42	1.67	0.41
36:5:1257:C:O2'	81:p0:39:HIS:ND1	2.51	0.41
36:5:1347:U:H2'	36:5:1355:A:H61	1.86	0.41
36:5:1508:C:O2'	36:5:2353:G:O2'	2.32	0.41
36:5:1545:A:C5	51:m5:105:ARG:NH1	2.89	0.41
36:5:1556:C:H5''	36:5:2169:G:H22	1.85	0.41
36:5:1786:G:H2'	36:5:1787:A:C8	2.56	0.41
36:5:1802:C:H2'	36:5:1803:C:C6	2.55	0.41
36:5:2139:A:H62	73:o7:4:GLY:HA3	1.86	0.41
36:5:2194:G:C6	36:5:2195:C:C4	3.08	0.41
36:5:2255:A:H5'	36:5:2261:G:N2	2.27	0.41
36:5:2369:G:OP2	86:5:3902:OHX:N1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2515:A:C6	36:5:2516:U:C2	3.08	0.41
36:5:2623:G:C5	36:5:2624:G:N7	2.89	0.41
36:5:2682:C:H5''	48:m1:68:HIS:CE1	2.55	0.41
36:5:2890:A:N1	36:5:2913:C:N3	2.68	0.41
36:5:2904:U:H2'	36:5:2905:U:C6	2.55	0.41
36:5:3135:U:C5	36:5:3136:G:C5	3.08	0.41
36:5:3191:G:C6	36:5:3192:U:N3	2.89	0.41
36:5:3275:U:O2'	69:o3:60:ARG:NH1	2.53	0.41
86:5:4004:OHX:N3	86:5:4195:OHX:N1	2.69	0.41
86:5:4029:OHX:N4	86:5:4232:OHX:N1	2.69	0.41
86:5:4060:OHX:N5	86:5:4138:OHX:N2	2.69	0.41
37:7:55:A:N3	48:m1:152:HIS:HE1	2.19	0.41
38:8:83:C:H4'	38:8:85:G:C2	2.56	0.41
39:l2:18:SER:O	39:l2:20:THR:HG23	2.21	0.41
39:l2:159:SER:C	39:l2:161:ASP:N	2.77	0.41
41:l4:20:LEU:HA	41:l4:20:LEU:HD23	1.84	0.41
41:l4:20:LEU:HD22	41:l4:256:THR:CG2	2.51	0.41
41:l4:26:PHE:CD1	41:l4:130:ALA:HB2	2.56	0.41
41:l4:222:VAL:HA	41:l4:223:PRO:HD3	1.81	0.41
41:l4:283:THR:HB	41:l4:285:ASP:H	1.86	0.41
42:l5:88:ILE:HD12	42:l5:240:TYR:CD1	2.55	0.41
42:l5:102:GLY:HA2	42:l5:105:ILE:HG22	2.03	0.41
42:l5:122:VAL:HG23	42:l5:123:GLU:H	1.85	0.41
44:l7:116:PHE:CZ	44:l7:144:ILE:HG23	2.56	0.41
46:l9:91:ARG:HD3	76:q0:82:LEU:HD21	2.03	0.41
46:l9:110:LYS:HE3	46:l9:110:LYS:HB2	1.90	0.41
46:l9:124:ARG:HD2	46:l9:124:ARG:H	1.86	0.41
47:m0:169:LYS:O	47:m0:177:ASP:HA	2.20	0.41
49:m3:124:ILE:O	49:m3:124:ILE:HG12	2.20	0.41
50:m4:21:VAL:HG12	50:m4:65:LEU:HD23	2.03	0.41
52:m6:27:LEU:HD13	52:m6:98:ALA:C	2.45	0.41
53:m7:25:SER:CB	53:m7:28:ASN:HB2	2.51	0.41
54:m8:170:ARG:C	54:m8:172:PHE:H	2.29	0.41
55:m9:105:LEU:HD22	55:m9:105:LEU:HA	1.82	0.41
55:m9:117:LYS:O	55:m9:120:TYR:HB3	2.21	0.41
56:n0:26:ARG:HH22	56:n0:28:ARG:HD2	1.84	0.41
57:n1:156:TYR:CG	57:n1:157:GLU:N	2.89	0.41
58:n2:77:LYS:HG2	58:n2:81:LYS:HE3	2.02	0.41
61:n5:65:GLN:O	61:n5:85:GLN:N	2.48	0.41
63:n7:36:HIS:HA	63:n7:38:PHE:CE1	2.56	0.41
65:n9:22:LYS:HE2	65:n9:22:LYS:HB2	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:o2:18:LYS:HD3	68:o2:30:GLU:OE1	2.21	0.41
68:o2:19:ARG:CD	68:o2:28:VAL:HG12	2.51	0.41
69:o3:24:ASN:ND2	69:o3:27:VAL:HG23	2.35	0.41
69:o3:41:ALA:HB3	69:o3:74:THR:HG22	2.03	0.41
74:o8:11:PHE:HD1	74:o8:12:LEU:HD22	1.84	0.41
81:p0:37:GLN:O	81:p0:41:VAL:HG23	2.21	0.41
1:2:546:U:C2	1:2:547:U:C6	3.09	0.41
1:2:748:U:O2	1:2:802:G:C2	2.74	0.41
1:2:894:U:H3	1:2:918:U:H3	1.69	0.41
1:2:934:C:N3	1:2:1077:C:H4'	2.35	0.41
1:2:970:A:H5''	1:2:970:A:C8	2.56	0.41
1:2:1233:G:O2'	33:E1:145:HIS:HB2	2.21	0.41
1:2:1291:G:H22	1:2:1324:G:H1	1.69	0.41
1:2:1545:A:C2	1:2:1546:G:C5	3.08	0.41
1:2:1656:U:C2	1:2:1658:G:H1'	2.55	0.41
2:S0:96:THR:HA	2:S0:97:PRO:HD3	1.85	0.41
5:S3:95:GLY:O	5:S3:126:VAL:HG13	2.21	0.41
6:S4:122:LYS:O	6:S4:162:ILE:N	2.50	0.41
7:S5:39:GLU:HB3	7:S5:40:ILE:H	1.65	0.41
7:S5:200:ASN:O	7:S5:204:GLY:HA2	2.21	0.41
9:S7:131:PHE:C	9:S7:133:THR:N	2.76	0.41
10:S8:70:GLU:HG3	10:S8:112:TRP:CZ3	2.56	0.41
11:S9:133:HIS:O	11:S9:134:ILE:HD13	2.21	0.41
12:C0:50:THR:HG21	12:C0:57:THR:OG1	2.21	0.41
18:C6:13:LYS:NZ	18:C6:14:LYS:H	2.19	0.41
19:C7:45:ARG:NH2	19:C7:49:LYS:HE2	2.36	0.41
20:C8:53:ASP:O	20:C8:56:LYS:HB2	2.21	0.41
21:C9:40:SER:HB2	21:C9:96:ALA:HA	2.02	0.41
30:D8:15:VAL:O	30:D8:17:GLY:N	2.54	0.41
34:SR:165:ASP:O	34:SR:167:VAL:HG23	2.21	0.41
36:1:305:U:C5	36:1:2776:C:H1'	2.56	0.41
36:1:507:U:H2'	36:1:508:U:H6	1.86	0.41
36:1:685:G:OP1	49:M3:35:ARG:NH1	2.51	0.41
36:1:787:G:H2'	36:1:788:C:C6	2.56	0.41
36:1:901:G:H2'	36:1:902:G:C8	2.54	0.41
36:1:933:A:C4	41:L4:98:ARG:NH2	2.89	0.41
36:1:1278:A:O2'	36:1:1279:C:C6	2.74	0.41
36:1:2177:G:N2	39:L2:118:GLU:OE2	2.54	0.41
36:1:2203:U:H1'	36:1:2240:G:N2	2.36	0.41
36:1:2617:U:H4'	36:1:2644:C:C5	2.56	0.41
36:1:2688:U:H4'	36:1:2689:A:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2774:C:O5'	36:1:2774:C:H6	2.04	0.41
36:1:3071:U:H2'	36:1:3072:C:O4'	2.21	0.41
86:1:4027:OHX:N6	86:1:4040:OHX:N5	2.69	0.41
44:L7:55:TYR:HE2	44:L7:141:TYR:CE2	2.38	0.41
44:L7:82:LYS:HE2	44:L7:82:LYS:HB3	1.80	0.41
46:L9:67:ALA:HA	46:L9:70:THR:HG22	2.03	0.41
46:L9:112:ILE:HG21	46:L9:161:LEU:HD11	2.03	0.41
48:M1:73:GLY:O	48:M1:74:PRO:C	2.64	0.41
55:M9:107:ALA:O	55:M9:111:ASP:N	2.50	0.41
59:N3:21:ALA:O	59:N3:36:ILE:HG13	2.20	0.41
70:O4:99:LYS:HA	70:O4:102:LYS:HB2	2.03	0.41
73:O7:87:SER:C	86:O7:104:OHX:N1	2.79	0.41
1:6:377:G:O6	86:6:2111:OHX:N4	2.53	0.41
1:6:390:G:N7	1:6:407:A:N1	2.69	0.41
1:6:542:A:C8	1:6:543:C:H5'	2.56	0.41
1:6:610:G:H21	25:d3:19:ARG:HH12	1.68	0.41
1:6:778:G:O6	26:d4:10:ARG:HD2	2.21	0.41
1:6:940:A:C6	1:6:941:A:C5	3.08	0.41
1:6:1450:U:OP2	86:6:2128:OHX:N4	2.54	0.41
1:6:1532:U:C4	1:6:1533:C:C5	3.09	0.41
1:6:1553:G:O6	17:c5:40:ARG:NH2	2.54	0.41
1:6:1582:U:C4	1:6:1614:A:C8	3.08	0.41
1:6:1791:A:C4	1:6:1793:G:C8	3.08	0.41
86:6:2059:OHX:N5	86:6:2147:OHX:N3	2.69	0.41
3:s1:117:TRP:HA	3:s1:155:TYR:CE1	2.55	0.41
10:s8:98:LYS:O	10:s8:99:ALA:C	2.64	0.41
12:c0:32:HIS:CD2	12:c0:33:GLU:HG2	2.56	0.41
15:c3:20:ARG:HH11	15:c3:20:ARG:HG3	1.86	0.41
15:c3:88:LEU:HA	15:c3:88:LEU:HD23	1.85	0.41
20:c8:62:THR:O	20:c8:66:LEU:HD23	2.21	0.41
21:c9:15:ILE:HD13	21:c9:60:SER:HB2	2.03	0.41
21:c9:102:ARG:O	21:c9:105:LEU:N	2.54	0.41
21:c9:141:GLU:C	21:c9:143:ASP:N	2.79	0.41
27:d5:99:ALA:C	27:d5:100:ILE:HG13	2.46	0.41
28:d6:49:ALA:HB1	28:d6:53:LEU:HD23	2.01	0.41
36:5:287:G:N2	36:5:288:C:H1'	2.36	0.41
36:5:945:C:H2'	36:5:946:U:O4'	2.21	0.41
36:5:1412:G:H8	36:5:1412:G:O5'	2.03	0.41
36:5:1679:A:C2	36:5:1680:G:C8	3.09	0.41
36:5:2785:A:H4'	78:q2:41:ARG:HH21	1.85	0.41
37:7:8:G:H2'	37:7:9:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:92:A:C5	37:7:93:C:H1'	2.56	0.41
41:14:39:PHE:CG	41:14:242:ALA:HB2	2.56	0.41
41:14:345:GLU:HB3	41:14:346:LYS:H	1.67	0.41
42:15:258:LYS:O	42:15:258:LYS:HG3	2.21	0.41
44:17:207:LEU:HA	44:17:207:LEU:HD23	1.55	0.41
45:18:157:VAL:HG21	45:18:163:VAL:HG21	2.02	0.41
48:m1:12:LEU:HD22	48:m1:13:LYS:N	2.36	0.41
50:m4:46:ILE:HD12	50:m4:58:ILE:HG21	2.03	0.41
51:m5:99:ARG:HH22	51:m5:166:ALA:HB3	1.86	0.41
52:m6:80:PHE:CE1	52:m6:84:LEU:HD12	2.56	0.41
52:m6:153:VAL:O	52:m6:156:LEU:HB2	2.21	0.41
53:m7:3:ARG:HH21	53:m7:3:ARG:HA	1.86	0.41
53:m7:94:LEU:HD12	53:m7:94:LEU:HA	1.56	0.41
53:m7:123:PRO:O	53:m7:143:PRO:HG2	2.21	0.41
54:m8:124:LEU:O	54:m8:127:LEU:HB3	2.21	0.41
55:m9:11:ALA:O	55:m9:15:VAL:HG23	2.21	0.41
57:n1:126:VAL:O	57:n1:127:GLN:HB3	2.21	0.41
63:n7:5:LEU:HB3	63:n7:6:LYS:H	1.32	0.41
81:p0:60:ARG:HB3	81:p0:64:ARG:HH12	1.86	0.41
81:p0:93:LEU:CD1	81:p0:94:THR:H	2.34	0.41
1:2:223:U:H2'	1:2:224:C:C6	2.57	0.40
1:2:614:C:H42	1:2:1107:G:H1	1.69	0.40
1:2:741:C:O2'	1:2:742:U:O4'	2.39	0.40
1:2:743:U:O2	1:2:809:A:H1'	2.21	0.40
1:2:912:U:H4'	1:2:913:G:H2'	2.03	0.40
1:2:951:A:H1'	15:C3:101:HIS:CG	2.56	0.40
1:2:1019:A:OP2	15:C3:107:LYS:HE3	2.21	0.40
1:2:1230:A:C8	1:2:1256:A:C6	3.10	0.40
1:2:1242:A:O5'	1:2:1242:A:H8	2.03	0.40
4:S2:46:LYS:C	4:S2:48:GLY:H	2.29	0.40
5:S3:20:GLU:HA	12:C0:61:TRP:CE2	2.56	0.40
6:S4:23:LEU:N	6:S4:23:LEU:HD13	2.37	0.40
6:S4:45:ILE:HA	6:S4:61:VAL:HG11	2.02	0.40
7:S5:33:VAL:O	7:S5:34:GLN:C	2.64	0.40
9:S7:157:LYS:O	9:S7:159:VAL:HG13	2.22	0.40
9:S7:166:LEU:HD12	9:S7:169:PHE:CD2	2.56	0.40
10:S8:48:THR:CG2	10:S8:54:LYS:HB2	2.51	0.40
14:C2:29:LYS:O	14:C2:33:ARG:HG2	2.21	0.40
17:C5:82:ASN:H	17:C5:82:ASN:ND2	2.19	0.40
18:C6:41:PRO:O	18:C6:42:GLU:HB3	2.21	0.40
19:C7:23:LYS:O	19:C7:24:LEU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:31:ASN:ND2	19:C7:55:THR:HG23	2.35	0.40
20:C8:62:THR:O	20:C8:65:GLU:N	2.54	0.40
20:C8:82:PRO:O	20:C8:83:ALA:HB3	2.21	0.40
21:C9:20:SER:O	21:C9:24:ARG:HB2	2.21	0.40
26:D4:37:LYS:HD2	26:D4:57:VAL:HG13	2.03	0.40
28:D6:25:ASN:HB3	28:D6:77:CYS:SG	2.62	0.40
28:D6:85:ARG:HD3	28:D6:85:ARG:HA	1.68	0.40
34:SR:36:ALA:HB2	34:SR:42:LEU:HG	2.04	0.40
36:1:96:G:H5'	49:M3:15:ARG:CZ	2.51	0.40
36:1:120:G:H4'	36:1:121:A:C8	2.56	0.40
36:1:246:U:O2'	36:1:247:C:H5'	2.21	0.40
36:1:326:U:O2'	36:1:327:A:H5'	2.21	0.40
36:1:395:A:H2'	36:1:396:A:C8	2.56	0.40
36:1:639:G:C2	36:1:651:G:C2	3.09	0.40
36:1:699:A:OP1	49:M3:68:LYS:HE3	2.21	0.40
36:1:867:G:C5	36:1:868:C:C4	3.09	0.40
36:1:1314:C:H5'	52:M6:17:GLY:HA3	2.02	0.40
36:1:1580:A:H5'	36:1:2522:G:C5	2.56	0.40
36:1:1743:G:N3	36:1:1744:G:C8	2.89	0.40
36:1:1878:G:H3'	36:1:1878:G:N3	2.36	0.40
36:1:2183:A:OP1	39:L2:10:LYS:HD2	2.20	0.40
36:1:2430:A:H2'	36:1:2431:C:O4'	2.22	0.40
36:1:3003:G:P	40:L3:26:ARG:HH22	2.44	0.40
36:1:3215:A:C8	36:1:3259:U:O2	2.74	0.40
36:1:3232:G:H1	36:1:3255:U:H3	1.69	0.40
36:1:3338:C:C2	36:1:3339:A:C8	3.09	0.40
36:1:3350:C:O2'	36:1:3351:U:OP1	2.37	0.40
38:4:13:A:C6	38:4:14:C:C4	3.09	0.40
38:4:76:C:H2'	38:4:77:A:H8	1.85	0.40
39:L2:42:ARG:HD2	39:L2:87:PHE:CD1	2.55	0.40
39:L2:79:ASN:ND2	39:L2:165:VAL:HG22	2.36	0.40
40:L3:56:ILE:HD12	40:L3:359:ILE:HA	2.03	0.40
41:L4:89:ALA:C	41:L4:91:GLY:N	2.78	0.40
44:L7:111:ILE:H	44:L7:111:ILE:HG22	1.58	0.40
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.80	0.40
45:L8:240:ASN:OD1	45:L8:240:ASN:N	2.52	0.40
46:L9:115:ARG:HG2	46:L9:123:ILE:HG13	2.02	0.40
47:M0:47:PRO:O	47:M0:172:GLY:N	2.50	0.40
48:M1:61:ARG:O	48:M1:62:ASN:HB2	2.21	0.40
49:M3:190:LYS:HE2	49:M3:190:LYS:HB2	1.89	0.40
51:M5:98:LEU:HA	51:M5:98:LEU:HD13	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:78:ARG:HH11	52:M6:78:ARG:HG3	1.85	0.40
62:N6:40:ARG:CD	62:N6:46:LYS:HA	2.51	0.40
67:O1:36:ILE:O	67:O1:37:LYS:C	2.64	0.40
72:O6:60:LEU:HD11	72:O6:68:ARG:NE	2.36	0.40
76:Q0:78:ILE:HG22	76:Q0:79:GLU:N	2.35	0.40
79:Q3:36:ARG:HB2	79:Q3:48:LYS:HE2	2.02	0.40
1:6:545:A:H4'	1:6:546:U:H5'	2.03	0.40
1:6:853:G:H2'	1:6:854:U:C6	2.56	0.40
1:6:938:G:N2	1:6:942:G:C5	2.89	0.40
1:6:1106:U:H2'	1:6:1107:G:H8	1.85	0.40
1:6:1477:G:H5''	21:c9:45:MET:O	2.21	0.40
1:6:1684:U:H2'	1:6:1685:G:C8	2.56	0.40
1:6:1799:U:H4'	1:6:1800:A:C2'	2.47	0.40
6:s4:233:LYS:HE3	6:s4:233:LYS:HB3	1.89	0.40
16:c4:30:VAL:O	16:c4:39:ILE:HG12	2.21	0.40
17:c5:123:TYR:C	17:c5:124:THR:HG22	2.46	0.40
19:c7:60:ARG:NH2	19:c7:66:VAL:HG13	2.35	0.40
22:d0:52:LYS:HB2	22:d0:52:LYS:HE3	1.85	0.40
34:sR:100:TYR:HD2	34:sR:100:TYR:HA	1.75	0.40
36:5:572:A:C4	36:5:573:C:C6	3.09	0.40
36:5:767:U:C2	36:5:768:C:C6	3.09	0.40
36:5:830:A:H2'	36:5:831:G:O4'	2.21	0.40
36:5:1104:G:H2'	36:5:1105:A:H8	1.86	0.40
36:5:1242:G:H2'	36:5:1243:G:O4'	2.21	0.40
36:5:1816:A:H2'	36:5:1817:G:H5''	2.03	0.40
36:5:2288:G:OP1	86:5:3953:OHX:N3	2.54	0.40
36:5:2421:U:O2'	78:q2:52:GLY:HA3	2.22	0.40
36:5:2714:G:H8	36:5:2751:G:H2'	1.86	0.40
36:5:2998:U:C4	36:5:2999:U:C4	3.09	0.40
36:5:3059:G:H4'	36:5:3373:U:O2'	2.20	0.40
36:5:3139:A:O4'	40:l3:18:PRO:HD2	2.21	0.40
36:5:3157:U:H3'	36:5:3158:G:C5'	2.51	0.40
36:5:3207:U:H5'	36:5:3209:A:H2	1.86	0.40
37:7:28:C:C4	37:7:29:C:C2	3.08	0.40
38:8:71:A:H5''	62:n6:51:ARG:HB2	2.03	0.40
39:l2:58:LEU:HD23	39:l2:58:LEU:HA	1.69	0.40
40:l3:290:ASP:C	40:l3:292:ALA:N	2.75	0.40
41:l4:316:ASN:O	41:l4:319:LYS:O	2.40	0.40
41:l4:330:TYR:OH	44:l7:49:ALA:HA	2.21	0.40
47:m0:24:ARG:H	47:m0:24:ARG:HG3	1.55	0.40
53:m7:46:LYS:HE3	53:m7:46:LYS:HB2	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:n5:80:ASN:O	61:n5:125:ARG:HG2	2.21	0.40
72:o6:79:SER:OG	72:o6:82:ARG:HG3	2.20	0.40
79:q3:77:ALA:C	79:q3:79:VAL:N	2.79	0.40
1:2:366:A:O5'	1:2:366:A:H8	2.05	0.40
1:2:545:A:H61	1:2:594:A:C5'	2.33	0.40
1:2:555:A:H3'	1:2:555:A:C8	2.56	0.40
1:2:738:G:H2'	1:2:739:G:H8	1.86	0.40
1:2:1133:A:H2'	1:2:1134:C:O4'	2.22	0.40
1:2:1383:G:C2'	1:2:1384:A:H5'	2.51	0.40
1:2:1489:U:H3'	1:2:1489:U:O2	2.21	0.40
1:2:1537:C:N4	86:2:2154:OHX:N4	2.69	0.40
1:2:1586:A:H2'	1:2:1587:A:O4'	2.21	0.40
1:2:1636:C:H4'	1:2:1637:C:H5''	2.03	0.40
1:2:1759:C:H2'	1:2:1760:G:O4'	2.21	0.40
86:2:2095:OHX:N1	86:2:2115:OHX:N2	2.69	0.40
2:S0:125:ASP:HA	2:S0:126:PRO:HD2	1.75	0.40
7:S5:53:VAL:O	7:S5:55:ASP:N	2.55	0.40
7:S5:143:ARG:O	7:S5:162:VAL:HG13	2.21	0.40
8:S6:3:LEU:HA	8:S6:109:LEU:O	2.21	0.40
8:S6:20:ASP:O	8:S6:24:ILE:HG13	2.22	0.40
8:S6:84:TYR:CZ	8:S6:86:PRO:HA	2.56	0.40
8:S6:84:TYR:OH	8:S6:91:GLU:O	2.39	0.40
9:S7:62:VAL:HG13	9:S7:70:PHE:HD2	1.86	0.40
14:C2:136:ILE:O	14:C2:140:PHE:HB2	2.21	0.40
15:C3:114:ARG:HD3	15:C3:114:ARG:HA	1.65	0.40
17:C5:67:ALA:C	17:C5:69:GLU:H	2.29	0.40
18:C6:10:PHE:HE1	18:C6:12:LYS:HE2	1.85	0.40
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.54	0.40
23:D1:69:LEU:O	23:D1:70:ASN:C	2.64	0.40
23:D1:87:ARG:O	29:D7:11:THR:OG1	2.33	0.40
24:D2:7:LEU:HD11	24:D2:37:PHE:CD2	2.55	0.40
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	2.04	0.40
34:SR:231:MET:HB3	34:SR:232:TYR:H	1.59	0.40
36:1:39:A:N6	36:1:43:A:OP2	2.54	0.40
36:1:361:A:O4'	36:1:814:U:H4'	2.21	0.40
36:1:556:U:H5'	36:1:557:A:C2	2.55	0.40
36:1:583:G:OP1	86:1:3860:OHX:N2	2.55	0.40
36:1:933:A:N1	41:L4:98:ARG:NH1	2.68	0.40
36:1:1039:U:H2'	36:1:1040:A:H8	1.86	0.40
36:1:1433:A:C2	68:O2:25:TYR:CD2	3.10	0.40
36:1:1449:A:C2	36:1:2356:A:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1720:U:P	55:M9:110:ARG:HH12	2.44	0.40
36:1:2617:U:H4'	36:1:2644:C:H5	1.87	0.40
36:1:2828:G:C4	36:1:2829:U:C6	3.09	0.40
36:1:2947:G:H2'	36:1:2948:C:C6	2.56	0.40
36:1:3009:G:O6	86:1:3894:OHX:N5	2.54	0.40
36:1:3195:U:O2'	36:1:3196:U:H5'	2.20	0.40
36:1:3362:A:H2'	36:1:3363:U:O4'	2.21	0.40
37:3:39:C:O2'	48:M1:43:GLN:HB3	2.22	0.40
39:L2:46:LYS:O	39:L2:47:GLN:HB2	2.22	0.40
40:L3:95:THR:C	40:L3:97:ARG:N	2.79	0.40
40:L3:95:THR:O	40:L3:98:GLY:N	2.51	0.40
40:L3:328:ILE:HG23	40:L3:329:PRO:O	2.20	0.40
45:L8:71:VAL:HA	45:L8:72:PRO:HD2	1.62	0.40
45:L8:204:ARG:HG2	45:L8:206:GLU:HG3	2.02	0.40
49:M3:114:GLN:O	49:M3:117:LYS:HB2	2.21	0.40
50:M4:135:LEU:O	50:M4:136:ALA:HB2	2.21	0.40
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.21	0.40
51:M5:86:ASN:OD1	51:M5:86:ASN:N	2.53	0.40
55:M9:21:LYS:HA	55:M9:53:LYS:HD2	2.03	0.40
55:M9:144:GLN:O	55:M9:144:GLN:HG2	2.21	0.40
58:N2:95:PHE:C	58:N2:95:PHE:HD2	2.30	0.40
69:O3:50:ALA:HB1	69:O3:66:VAL:HG11	2.04	0.40
70:O4:105:VAL:HG12	70:O4:106:LYS:N	2.35	0.40
74:O8:66:ILE:HG21	74:O8:77:ARG:NH2	2.36	0.40
1:6:272:U:O2'	1:6:273:G:OP2	2.34	0.40
1:6:300:A:H2'	1:6:301:A:C8	2.56	0.40
1:6:512:A:O2'	11:s9:133:HIS:CE1	2.74	0.40
1:6:540:G:O2'	1:6:542:A:H5'	2.21	0.40
1:6:981:U:H2'	1:6:982:U:H6	1.87	0.40
1:6:1039:A:N3	1:6:1040:G:C8	2.89	0.40
1:6:1078:C:H2'	1:6:1079:U:C6	2.56	0.40
1:6:1312:A:N7	19:c7:2:GLY:N	2.69	0.40
1:6:1334:U:H2'	1:6:1335:U:O4'	2.21	0.40
1:6:1342:C:O2'	1:6:1343:U:H5'	2.21	0.40
1:6:1489:U:O2'	1:6:1492:A:N3	2.40	0.40
2:s0:178:ALA:O	2:s0:182:LEU:HG	2.21	0.40
3:s1:36:SER:HB3	3:s1:231:LEU:O	2.21	0.40
3:s1:70:LEU:HA	3:s1:73:LEU:HB2	2.03	0.40
5:s3:60:GLY:HA3	5:s3:65:ARG:HB3	2.03	0.40
7:s5:99:MET:O	7:s5:100:ASN:HB2	2.20	0.40
14:c2:24:ILE:C	14:c2:26:ASP:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.65	0.40
24:d2:89:TRP:O	24:d2:92:ASN:N	2.53	0.40
80:e0:35:TYR:CE1	80:e0:39:LEU:HD23	2.57	0.40
34:sR:319:ASN:OD1	34:sR:319:ASN:N	2.55	0.40
36:5:171:G:C2	36:5:248:U:O2	2.74	0.40
36:5:299:G:H2'	36:5:300:G:O4'	2.21	0.40
36:5:345:G:H2'	38:8:25:G:O2'	2.21	0.40
36:5:562:C:C2	36:5:563:U:C5	3.09	0.40
36:5:609:G:H8	41:l4:310:THR:HG23	1.87	0.40
36:5:665:A:H1'	49:m3:14:PHE:CZ	2.56	0.40
36:5:677:A:H4'	36:5:678:G:O5'	2.21	0.40
36:5:1114:U:C4	36:5:1115:G:N7	2.88	0.40
36:5:1230:G:OP2	86:5:4000:OHX:N6	2.54	0.40
36:5:1345:G:C2	36:5:1360:C:C2	3.10	0.40
36:5:1524:A:O2'	36:5:1526:U:OP2	2.34	0.40
36:5:1734:G:H2'	36:5:1735:G:O4'	2.21	0.40
36:5:1932:A:H5'	36:5:1933:A:OP2	2.21	0.40
36:5:2442:G:C2	36:5:2443:A:C8	3.09	0.40
36:5:2608:G:C2	36:5:2609:A:C8	3.09	0.40
36:5:2732:G:H2'	36:5:2733:A:O4'	2.20	0.40
36:5:2756:C:H2'	36:5:2757:U:H6	1.85	0.40
36:5:3041:U:H2'	36:5:3042:U:C6	2.55	0.40
36:5:3051:U:H1'	59:n3:92:PHE:CE1	2.55	0.40
36:5:3071:U:H2'	36:5:3072:C:O4'	2.21	0.40
36:5:3330:A:H5''	36:5:3330:A:C8	2.56	0.40
37:7:43:U:C4	37:7:44:C:C4	3.09	0.40
38:8:48:A:C6	38:8:62:C:C5	3.09	0.40
42:l5:136:GLU:N	42:l5:136:GLU:CD	2.79	0.40
46:l9:1:MET:HE3	46:l9:1:MET:O	2.22	0.40
46:l9:109:ALA:O	46:l9:110:LYS:HB2	2.20	0.40
46:l9:171:ASP:OD1	46:l9:171:ASP:C	2.64	0.40
47:m0:15:LYS:O	47:m0:16:PRO:C	2.63	0.40
47:m0:23:ASN:O	47:m0:23:ASN:CG	2.59	0.40
47:m0:29:SER:OG	47:m0:31:ILE:O	2.26	0.40
47:m0:176:LEU:O	47:m0:177:ASP:C	2.64	0.40
48:m1:93:ASP:C	48:m1:94:ARG:O	2.64	0.40
52:m6:182:ASN:CG	52:m6:183:ALA:N	2.78	0.40
54:m8:152:HIS:ND1	54:m8:162:ALA:O	2.49	0.40
54:m8:170:ARG:HH21	54:m8:171:LYS:HD2	1.85	0.40
58:n2:22:PRO:HG3	58:n2:93:ILE:HG21	2.03	0.40
62:n6:112:ASP:HB2	62:n6:115:ARG:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:42:ARG:HG2	64:n8:46:ASP:OD1	2.21	0.40
66:o0:55:GLU:C	66:o0:57:GLU:N	2.78	0.40
67:o1:10:ARG:NH1	67:o1:12:TYR:OH	2.55	0.40
70:o4:30:LEU:O	70:o4:31:ARG:HB2	2.21	0.40
72:o6:51:SER:O	72:o6:55:ARG:HG3	2.22	0.40
72:o6:91:ASN:HA	72:o6:94:ILE:HG22	2.02	0.40
74:o8:36:LYS:HA	74:o8:37:PRO:HD3	1.85	0.40
75:o9:9:ILE:HD13	75:o9:9:ILE:HA	1.85	0.40
81:p0:43:LYS:HE3	81:p0:43:LYS:HB2	1.82	0.40
81:p0:58:MET:HE3	81:p0:58:MET:HB3	1.94	0.40
1:2:422:G:N7	86:2:2107:OHX:N5	2.69	0.40
1:2:584:C:OP2	86:2:2026:OHX:N6	2.55	0.40
1:2:681:U:H6	1:2:681:U:O5'	2.04	0.40
1:2:772:G:N2	1:2:774:A:H1'	2.36	0.40
1:2:801:G:O6	86:2:2053:OHX:N3	2.54	0.40
1:2:1179:G:C6	1:2:1180:C:C4	3.09	0.40
1:2:1228:G:H5'	14:C2:45:LEU:HB2	2.03	0.40
1:2:1349:G:N3	1:2:1379:C:N4	2.67	0.40
1:2:1397:U:H2'	1:2:1398:U:H5''	2.03	0.40
1:2:1460:A:C4	35:SM:76:VAL:HG22	2.56	0.40
1:2:1483:A:C2	1:2:1607:G:H1'	2.57	0.40
1:2:1524:A:C6	1:2:1525:A:C6	3.10	0.40
1:2:1649:G:H2'	1:2:1650:U:C6	2.57	0.40
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.20	0.40
5:S3:26:THR:HA	5:S3:34:TYR:CD1	2.56	0.40
5:S3:222:VAL:HG23	34:SR:191:ASP:O	2.21	0.40
6:S4:253:ASP:O	6:S4:257:ALA:N	2.54	0.40
7:S5:172:ILE:HA	7:S5:175:LEU:HD12	2.02	0.40
8:S6:141:ILE:HD12	8:S6:141:ILE:H	1.87	0.40
9:S7:30:SER:O	9:S7:34:LEU:HD12	2.21	0.40
9:S7:41:LEU:HD13	9:S7:70:PHE:CE1	2.56	0.40
11:S9:108:ARG:HE	11:S9:145:SER:HA	1.86	0.40
14:C2:41:LEU:HD13	14:C2:43:ARG:HB3	2.03	0.40
18:C6:37:THR:O	18:C6:38:LEU:HD23	2.21	0.40
21:C9:52:GLY:C	21:C9:54:PHE:N	2.76	0.40
25:D3:11:SER:O	25:D3:15:LEU:HG	2.20	0.40
29:D7:33:LEU:HD13	29:D7:46:VAL:HB	2.04	0.40
30:D8:9:LEU:HB2	30:D8:34:GLU:OE1	2.21	0.40
36:1:62:A:N6	36:1:63:A:N1	2.69	0.40
36:1:77:A:H5'	49:M3:100:ARG:CZ	2.51	0.40
36:1:420:G:N2	36:1:2385:G:OP2	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:437:G:O2'	36:1:438:A:H5'	2.22	0.40
36:1:591:G:N2	43:L6:18:LEU:HB3	2.36	0.40
36:1:620:U:N3	36:1:622:A:C2	2.90	0.40
36:1:679:U:H2'	36:1:680:G:H8	1.87	0.40
36:1:841:A:H5'	55:M9:125:LYS:O	2.21	0.40
36:1:1004:U:C4	36:1:1005:G:N7	2.90	0.40
36:1:1113:G:O2'	36:1:1369:A:N3	2.37	0.40
36:1:1465:A:H2'	36:1:1466:G:O4'	2.20	0.40
36:1:2104:A:H2'	36:1:2105:G:H8	1.87	0.40
36:1:2284:C:H5''	36:1:2285:C:OP2	2.21	0.40
36:1:2421:U:C4	36:1:2422:C:C5	3.09	0.40
36:1:2616:C:O5'	36:1:2616:C:H6	2.04	0.40
36:1:2619:G:H2'	36:1:2620:G:O4'	2.22	0.40
36:1:2925:C:H2'	36:1:2926:A:O4'	2.21	0.40
36:1:2940:A:N7	40:L3:2:SER:O	2.54	0.40
36:1:3046:A:C6	36:1:3047:U:C4	3.08	0.40
36:1:3174:A:C5	36:1:3175:U:C2	3.09	0.40
88:1:4211:BLS:H133	88:1:4211:BLS:O7	2.21	0.40
37:3:28:C:O3'	48:M1:135:GLY:HA2	2.22	0.40
40:L3:41:VAL:HG23	40:L3:186:GLY:H	1.85	0.40
40:L3:65:SER:O	40:L3:68:HIS:N	2.54	0.40
41:L4:23:PRO:HD2	41:L4:26:PHE:CD2	2.56	0.40
41:L4:320:ASN:HB3	41:L4:323:VAL:CG1	2.52	0.40
42:L5:53:VAL:HA	42:L5:61:ILE:O	2.21	0.40
42:L5:150:LEU:HD23	42:L5:150:LEU:HA	1.85	0.40
44:L7:239:LEU:HB3	44:L7:240:VAL:H	1.80	0.40
45:L8:230:LYS:NZ	72:O6:47:ILE:O	2.50	0.40
46:L9:67:ALA:HA	46:L9:70:THR:CG2	2.51	0.40
47:M0:150:GLU:OE1	47:M0:154:ARG:NE	2.51	0.40
51:M5:21:PHE:O	51:M5:25:VAL:HG23	2.21	0.40
53:M7:32:THR:HA	53:M7:58:ILE:HG21	2.03	0.40
53:M7:67:ILE:HD11	53:M7:82:ARG:NH1	2.36	0.40
54:M8:71:LEU:C	54:M8:73:GLN:H	2.29	0.40
56:N0:42:TRP:CH2	56:N0:56:GLY:HA3	2.56	0.40
59:N3:48:ARG:HG3	59:N3:48:ARG:HH11	1.86	0.40
60:N4:42:GLN:HB3	60:N4:44:LYS:HG2	2.03	0.40
66:O0:24:THR:CG2	66:O0:91:SER:HB3	2.51	0.40
69:O3:51:TYR:O	69:O3:51:TYR:CG	2.74	0.40
70:O4:41:ARG:HB2	70:O4:50:ALA:HB1	2.02	0.40
71:O5:64:GLU:O	71:O5:68:GLN:HG3	2.22	0.40
77:Q1:1:MET:O	77:Q1:1:MET:HG3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:856:A:N6	9:s7:96:ARG:HB3	2.37	0.40
1:6:862:A:OP1	15:c3:20:ARG:NH2	2.53	0.40
1:6:934:C:H6	28:d6:11:ASN:HB3	1.85	0.40
1:6:957:G:C6	1:6:958:U:C4	3.08	0.40
1:6:1130:G:OP2	86:6:2112:OHX:N1	2.55	0.40
1:6:1211:A:N6	1:6:1453:G:C6	2.89	0.40
1:6:1244:A:H4'	1:6:1245:G:OP1	2.21	0.40
1:6:1269:U:H5'	1:6:1432:U:OP2	2.21	0.40
1:6:1270:G:C2	1:6:1271:G:C8	3.09	0.40
1:6:1487:A:OP1	31:d9:34:TYR:OH	2.35	0.40
1:6:1545:A:H5''	20:c8:133:VAL:HG13	2.03	0.40
1:6:1620:C:C2	1:6:1621:U:C5	3.10	0.40
4:s2:86:VAL:C	4:s2:87:GLN:HG2	2.47	0.40
4:s2:162:CYS:O	4:s2:163:GLY:C	2.65	0.40
5:s3:134:CYS:HA	5:s3:187:LYS:O	2.22	0.40
6:s4:23:LEU:N	6:s4:23:LEU:HD22	2.36	0.40
6:s4:58:GLY:HA2	6:s4:61:VAL:HG23	2.03	0.40
8:s6:211:LEU:HD13	8:s6:214:LYS:NZ	2.36	0.40
9:s7:27:LEU:C	9:s7:29:ASN:N	2.79	0.40
12:c0:24:LYS:HG3	12:c0:25:LYS:N	2.35	0.40
14:c2:42:ALA:HB2	14:c2:124:LYS:HD2	2.02	0.40
15:c3:113:PHE:O	15:c3:117:LEU:HG	2.22	0.40
19:c7:21:TYR:CD1	19:c7:21:TYR:C	2.99	0.40
20:c8:86:LEU:HD12	20:c8:99:HIS:CG	2.56	0.40
24:d2:75:ILE:H	24:d2:127:GLY:HA2	1.87	0.40
25:d3:44:GLY:N	25:d3:78:LYS:HE3	2.36	0.40
25:d3:51:GLY:O	25:d3:101:GLU:HA	2.22	0.40
26:d4:132:ARG:HG2	26:d4:133:ASN:OD1	2.21	0.40
34:sR:249:ARG:NH1	34:sR:315:VAL:HG21	2.37	0.40
36:5:1024:G:H3'	36:5:1024:G:N3	2.36	0.40
36:5:1161:G:H1'	36:5:1365:G:N2	2.36	0.40
36:5:1223:A:P	36:5:1223:A:H8	2.44	0.40
36:5:1386:A:C5	41:l4:183:LYS:HE3	2.56	0.40
36:5:1481:A:O2'	36:5:1858:A:N3	2.48	0.40
36:5:1555:U:H5	36:5:1559:A:H61	1.69	0.40
36:5:1791:C:H2'	36:5:1792:C:C5	2.56	0.40
36:5:2177:G:O2'	39:l2:125:ALA:O	2.34	0.40
36:5:2384:A:C2	52:m6:96:LYS:HE2	2.56	0.40
36:5:2662:G:H2'	36:5:2663:G:O4'	2.21	0.40
36:5:2784:G:H2'	36:5:2785:A:O4'	2.22	0.40
36:5:2785:A:OP1	86:5:4164:OHX:N4	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3045:G:H2'	36:5:3046:A:O4'	2.22	0.40
36:5:3170:A:C6	36:5:3171:U:C4	3.09	0.40
86:5:3972:OHX:N4	51:m5:204:LYS:O	2.53	0.40
37:7:5:G:C6	37:7:6:C:C4	3.10	0.40
40:13:238:LEU:HD12	40:13:238:LEU:HA	1.85	0.40
48:m1:76:ALA:O	48:m1:79:ILE:N	2.54	0.40
48:m1:117:ASP:HA	48:m1:118:PRO:HD2	1.91	0.40
56:n0:13:ARG:HD3	56:n0:51:VAL:HG13	2.03	0.40
57:n1:38:ASP:O	57:n1:64:VAL:HG23	2.22	0.40
59:n3:10:LYS:HE2	59:n3:13:ILE:HG21	2.02	0.40
60:n4:39:LEU:HD12	60:n4:44:LYS:CG	2.47	0.40
63:n7:15:ARG:HG3	63:n7:15:ARG:NH1	2.36	0.40
68:o2:123:LYS:HA	68:o2:126:LEU:CB	2.47	0.40
72:o6:34:SER:O	72:o6:38:LYS:HD3	2.21	0.40
79:q3:35:ALA:HB3	79:q3:37:TYR:CE2	2.56	0.40
1:2:526:A:H2'	1:2:527:A:O4'	2.21	0.40
1:2:648:G:N1	1:2:649:U:C4	2.89	0.40
1:2:755:A:H2'	1:2:756:A:C8	2.55	0.40
1:2:856:A:N7	9:S7:97:ARG:HB2	2.37	0.40
1:2:1274:C:C5	35:SM:95:SER:HA	2.56	0.40
3:S1:181:LEU:H	3:S1:181:LEU:HD13	1.87	0.40
4:S2:174:ARG:HA	4:S2:195:ASP:CG	2.46	0.40
6:S4:65:LEU:HG	6:S4:70:VAL:HG11	2.03	0.40
6:S4:131:LEU:CD1	6:S4:135:GLY:HA2	2.52	0.40
7:S5:59:VAL:O	7:S5:61:TYR:N	2.51	0.40
7:S5:63:GLN:HE21	7:S5:86:GLN:HG3	1.87	0.40
12:C0:57:THR:HG23	12:C0:66:TYR:CE1	2.56	0.40
17:C5:34:VAL:HA	17:C5:37:ALA:HB2	2.03	0.40
17:C5:35:LYS:HD2	17:C5:35:LYS:HA	1.89	0.40
17:C5:130:ARG:NH2	35:SM:70:ASN:HB3	2.36	0.40
20:C8:26:ILE:O	20:C8:58:ALA:HB2	2.22	0.40
21:C9:86:ARG:HH11	21:C9:86:ARG:CG	2.34	0.40
21:C9:135:ILE:H	21:C9:135:ILE:HG13	1.66	0.40
22:D0:55:PRO:HA	22:D0:91:ILE:HG12	2.03	0.40
27:D5:59:TYR:HD2	27:D5:59:TYR:C	2.30	0.40
28:D6:7:SER:OG	28:D6:10:ARG:HA	2.21	0.40
33:E1:130:VAL:HG11	33:E1:143:LYS:HG2	2.04	0.40
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.51	0.40
34:SR:195:HIS:NE2	34:SR:213:SER:O	2.38	0.40
34:SR:243:LEU:O	34:SR:244:ALA:HB3	2.22	0.40
36:1:150:A:C5	36:1:151:A:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:406:G:H1'	38:4:16:G:N2	2.36	0.40
36:1:496:C:C2'	36:1:497:C:H5'	2.52	0.40
36:1:531:G:C2	36:1:532:A:C4	3.10	0.40
36:1:544:C:O2'	36:1:548:G:N2	2.55	0.40
36:1:1139:G:C6	36:1:1140:G:N7	2.89	0.40
36:1:2680:A:N3	48:M1:59:ILE:HD13	2.37	0.40
36:1:2957:G:C5	36:1:2976:A:C2	3.09	0.40
36:1:3163:A:C2'	36:1:3164:C:H5'	2.51	0.40
86:1:4050:OHX:N6	86:1:4160:OHX:N5	2.68	0.40
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.54	0.40
38:4:79:A:O3'	38:4:80:A:H4'	2.21	0.40
39:L2:134:VAL:HG12	39:L2:150:LEU:HA	2.02	0.40
40:L3:120:LYS:HA	40:L3:120:LYS:HD2	1.94	0.40
40:L3:261:MET:SD	52:M6:64:PHE:HA	2.62	0.40
41:L4:31:ARG:O	41:L4:33:ASP:N	2.55	0.40
41:L4:99:MET:HG3	41:L4:102:PRO:HB3	2.03	0.40
44:L7:144:ILE:HD12	44:L7:189:ILE:HD12	2.03	0.40
48:M1:53:THR:HA	48:M1:59:ILE:O	2.22	0.40
48:M1:144:CYS:O	48:M1:146:GLY:N	2.53	0.40
53:M7:111:LYS:O	53:M7:153:LYS:N	2.42	0.40
54:M8:87:VAL:O	54:M8:107:THR:HG23	2.21	0.40
55:M9:44:LEU:HD12	55:M9:44:LEU:HA	1.76	0.40
55:M9:70:LYS:C	55:M9:72:GLU:N	2.80	0.40
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.40	0.40
63:N7:87:LEU:HD12	63:N7:121:ARG:NH1	2.37	0.40
64:N8:19:LYS:HB3	64:N8:25:HIS:HB2	2.04	0.40
64:N8:52:TYR:HD2	64:N8:53:PHE:CD1	2.39	0.40
73:O7:28:HIS:O	73:O7:32:LYS:N	2.54	0.40
77:Q1:1:MET:O	77:Q1:2:ARG:C	2.64	0.40
1:6:48:G:C6	1:6:432:G:C2	3.09	0.40
1:6:152:U:C2	1:6:163:G:N2	2.89	0.40
1:6:551:G:C8	1:6:582:U:C5	3.09	0.40
1:6:799:A:H2'	1:6:800:U:O4'	2.20	0.40
1:6:804:A:N3	24:d2:105:THR:HG22	2.36	0.40
1:6:817:A:H2'	1:6:818:C:O4'	2.22	0.40
1:6:838:G:C6	1:6:839:U:C4	3.10	0.40
1:6:964:U:H5''	15:c3:128:TYR:CE1	2.57	0.40
1:6:1388:A:C6	1:6:1411:A:C6	3.09	0.40
6:s4:65:LEU:HD23	6:s4:70:VAL:HG13	2.04	0.40
6:s4:92:LEU:HD12	6:s4:95:THR:HG21	2.03	0.40
6:s4:139:VAL:HG13	6:s4:150:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:163:ASP:CG	6:s4:164:LEU:N	2.80	0.40
7:s5:143:ARG:HB2	7:s5:218:GLU:OE2	2.21	0.40
7:s5:194:LEU:HD23	7:s5:194:LEU:HA	1.69	0.40
8:s6:28:PHE:HZ	8:s6:104:PRO:HB3	1.85	0.40
8:s6:55:GLY:CA	8:s6:63:MET:HG3	2.52	0.40
9:s7:114:ARG:HH11	9:s7:114:ARG:HB2	1.86	0.40
9:s7:165:LYS:H	9:s7:165:LYS:HG2	1.64	0.40
10:s8:191:PHE:O	10:s8:195:ARG:HG2	2.21	0.40
11:s9:60:LEU:HD23	11:s9:60:LEU:HA	1.82	0.40
12:c0:10:LYS:NZ	12:c0:36:ASP:HB3	2.29	0.40
12:c0:31:LYS:HA	12:c0:37:THR:O	2.21	0.40
18:c6:38:LEU:O	18:c6:40:GLU:N	2.55	0.40
21:c9:123:ARG:HG2	21:c9:124:ILE:O	2.21	0.40
25:d3:102:VAL:HG23	25:d3:104:LEU:HD21	2.04	0.40
26:d4:92:VAL:O	26:d4:93:ARG:C	2.64	0.40
26:d4:96:LEU:HG	26:d4:96:LEU:H	1.67	0.40
30:d8:13:ILE:HG13	30:d8:29:ARG:O	2.22	0.40
34:sR:178:VAL:HG23	34:sR:192:PHE:O	2.21	0.40
35:sM:129:ALA:HA	35:sM:132:ALA:HB3	2.03	0.40
36:5:238:A:H2'	36:5:239:G:C8	2.56	0.40
36:5:289:A:OP1	51:m5:171:SER:HB3	2.21	0.40
36:5:383:G:N2	36:5:385:A:H3'	2.35	0.40
36:5:597:G:H2'	36:5:598:A:C8	2.55	0.40
36:5:685:G:P	49:m3:35:ARG:NH1	2.88	0.40
36:5:1014:U:C2'	36:5:1015:U:H5'	2.51	0.40
36:5:1093:A:C2	36:5:1096:U:C2	3.09	0.40
36:5:1340:G:C4	36:5:1341:U:C5	3.09	0.40
36:5:1440:G:C6	36:5:1441:G:C5	3.09	0.40
36:5:1624:G:H2'	36:5:1625:A:C8	2.57	0.40
36:5:1714:A:H2	36:5:1727:G:N3	2.20	0.40
36:5:2268:U:O2	36:5:2269:U:N3	2.55	0.40
36:5:2275:A:H2'	36:5:2276:G:O4'	2.22	0.40
36:5:3046:A:C5	36:5:3047:U:C5	3.09	0.40
36:5:3119:U:H5''	36:5:3120:C:OP2	2.21	0.40
36:5:3321:C:H2'	36:5:3322:A:C8	2.57	0.40
86:5:4060:OHX:N5	86:5:4138:OHX:N6	2.69	0.40
37:7:52:G:C2	37:7:53:U:C5	3.10	0.40
38:8:73:U:C5	38:8:74:U:C5	3.09	0.40
39:l2:65:ASP:HA	39:l2:66:PRO:HD3	1.92	0.40
43:l6:39:VAL:C	43:l6:40:LEU:HD23	2.47	0.40
44:l7:77:VAL:HG22	57:n1:139:ARG:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:1:MET:HG3	46:l9:3:TYR:CZ	2.55	0.40
47:m0:98:ARG:CZ	47:m0:119:TRP:CH2	3.05	0.40
50:m4:104:ALA:HA	50:m4:107:GLU:HB2	2.03	0.40
51:m5:164:LEU:HD23	51:m5:164:LEU:HA	1.93	0.40
52:m6:38:ALA:N	52:m6:39:GLU:OE1	2.54	0.40
52:m6:138:LEU:HD12	52:m6:138:LEU:HA	1.81	0.40
54:m8:170:ARG:HD2	64:n8:56:VAL:O	2.22	0.40
57:n1:80:VAL:HG13	57:n1:85:LEU:HG	2.03	0.40
60:n4:92:GLU:O	60:n4:95:SER:HB3	2.21	0.40
60:n4:129:LYS:C	60:n4:131:ALA:H	2.29	0.40
71:o5:85:THR:CG2	71:o5:87:ALA:HB3	2.52	0.40
79:q3:83:ILE:HD13	79:q3:83:ILE:HA	1.96	0.40
1:2:222:A:H2'	1:2:223:U:C6	2.56	0.40
1:2:476:U:H5''	1:2:477:A:O4'	2.22	0.40
1:2:982:U:H2'	1:2:983:A:C8	2.57	0.40
1:2:1268:G:C2	1:2:1270:G:C8	3.09	0.40
1:2:1514:U:C4	5:S3:4:LEU:HD12	2.57	0.40
1:2:1754:A:O2'	86:2:2057:OHX:N5	2.55	0.40
1:2:1770:U:H5	28:D6:28:LYS:NZ	2.19	0.40
86:2:2074:OHX:N4	86:2:2162:OHX:N2	2.69	0.40
5:S3:30:ALA:C	5:S3:32:GLU:N	2.80	0.40
5:S3:114:ALA:HB3	5:S3:117:ARG:HB2	2.04	0.40
8:S6:69:LEU:HD13	8:S6:69:LEU:HA	1.87	0.40
12:C0:48:SER:O	12:C0:51:SER:N	2.52	0.40
13:C1:70:ILE:O	13:C1:71:LEU:HD23	2.22	0.40
13:C1:78:THR:HA	13:C1:84:ILE:HG22	2.03	0.40
14:C2:87:PRO:O	14:C2:88:LEU:HB2	2.21	0.40
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.57	0.40
20:C8:44:ASN:OD1	20:C8:48:LYS:HD2	2.22	0.40
20:C8:123:ARG:CD	20:C8:133:VAL:HG21	2.52	0.40
25:D3:59:ILE:HG12	32:E0:4:VAL:HG13	2.04	0.40
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.86	0.40
28:D6:36:ILE:O	28:D6:36:ILE:HD13	2.21	0.40
33:E1:108:VAL:HA	33:E1:113:LYS:O	2.21	0.40
36:1:61:A:H2'	36:1:62:A:O4'	2.21	0.40
36:1:156:G:C5	49:M3:99:HIS:CD2	3.09	0.40
36:1:902:G:O6	86:1:3931:OHX:N5	2.55	0.40
36:1:1184:A:C2	36:1:1323:G:C4	3.09	0.40
36:1:1248:C:OP1	36:1:1249:G:H8	2.05	0.40
36:1:1430:U:H2'	64:N8:9:ARG:HH22	1.87	0.40
36:1:1433:A:H2	68:O2:25:TYR:CD2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2111:G:N3	60:N4:44:LYS:HE3	2.37	0.40
36:1:2182:A:H2'	36:1:2183:A:H8	1.86	0.40
36:1:2202:C:H2'	36:1:2203:U:O4'	2.21	0.40
36:1:2208:A:H4'	36:1:2209:U:OP1	2.22	0.40
36:1:2320:A:OP2	86:1:4207:OHX:N5	2.54	0.40
36:1:2657:A:OP1	36:1:2657:A:H8	2.05	0.40
36:1:3118:C:H4'	76:Q0:106:ARG:NH1	2.35	0.40
36:1:3378:C:O2'	40:L3:312:VAL:HA	2.21	0.40
86:1:3962:OHX:N1	38:4:31:G:OP2	2.54	0.40
37:3:63:A:C2	37:3:65:G:C5	3.10	0.40
40:L3:374:ALA:O	40:L3:378:ALA:N	2.53	0.40
42:L5:105:ILE:HD13	42:L5:105:ILE:HA	1.59	0.40
43:L6:152:THR:O	43:L6:152:THR:OG1	2.40	0.40
46:L9:90:MET:SD	46:L9:146:LEU:HD11	2.61	0.40
49:M3:25:HIS:CG	51:M5:200:TRP:CZ3	3.10	0.40
49:M3:54:LEU:HD22	49:M3:54:LEU:HA	1.88	0.40
50:M4:100:ALA:C	50:M4:102:LYS:H	2.30	0.40
52:M6:78:ARG:HG3	52:M6:78:ARG:NH1	2.37	0.40
52:M6:177:LYS:O	52:M6:178:VAL:C	2.63	0.40
53:M7:87:SER:O	53:M7:89:LYS:N	2.54	0.40
53:M7:108:ASP:O	53:M7:109:ALA:C	2.65	0.40
54:M8:36:LEU:HD23	54:M8:36:LEU:HA	1.79	0.40
57:N1:126:VAL:HG23	57:N1:127:GLN:H	1.86	0.40
59:N3:10:LYS:HG2	59:N3:11:PHE:O	2.21	0.40
59:N3:97:ASP:OD2	59:N3:99:ALA:HB2	2.21	0.40
68:O2:103:LYS:C	68:O2:105:ARG:N	2.80	0.40
71:O5:38:ARG:HG2	71:O5:39:PRO:HD2	2.02	0.40
1:6:275:C:N4	1:6:281:G:H1	2.20	0.40
1:6:648:G:C4	1:6:687:G:N2	2.90	0.40
1:6:1198:G:OP1	1:6:1199:G:H1'	2.22	0.40
1:6:1208:A:H4'	1:6:1270:G:P	2.61	0.40
1:6:1244:A:HO2'	1:6:1245:G:P	2.41	0.40
1:6:1293:U:H1'	2:s0:111:ILE:HG21	2.02	0.40
1:6:1525:A:N1	1:6:1526:A:C2	2.90	0.40
1:6:1698:G:N2	1:6:1699:G:C5	2.90	0.40
3:s1:103:MET:HB3	3:s1:215:VAL:HG12	2.02	0.40
3:s1:116:LYS:HB3	3:s1:117:TRP:CD1	2.56	0.40
3:s1:141:ALA:HB1	3:s1:207:LEU:CD2	2.47	0.40
3:s1:207:LEU:HD13	3:s1:210:ILE:HD11	2.02	0.40
4:s2:115:ILE:HG21	4:s2:208:GLU:OE1	2.21	0.40
5:s3:44:THR:O	5:s3:45:LYS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:25:LEU:HD22	7:s5:25:LEU:N	2.37	0.40
8:s6:138:ALA:O	8:s6:142:ARG:HG3	2.22	0.40
9:s7:99:LEU:HA	9:s7:99:LEU:HD23	1.86	0.40
12:c0:32:HIS:CG	12:c0:33:GLU:N	2.85	0.40
15:c3:8:GLY:C	15:c3:9:LYS:HG2	2.46	0.40
15:c3:38:VAL:HA	15:c3:41:ALA:HB3	2.03	0.40
18:c6:29:ILE:HG22	18:c6:36:ILE:HB	2.04	0.40
18:c6:115:THR:HG23	18:c6:118:ILE:O	2.21	0.40
19:c7:46:LEU:HD23	19:c7:46:LEU:HA	1.77	0.40
21:c9:33:TYR:O	21:c9:35:ASP:N	2.50	0.40
36:5:199:A:N3	36:5:201:A:C8	2.90	0.40
36:5:358:G:N2	36:5:361:A:OP2	2.48	0.40
36:5:568:G:H2'	36:5:569:A:O4'	2.21	0.40
36:5:572:A:H2'	36:5:573:C:H6	1.86	0.40
36:5:1459:C:H2'	36:5:1460:A:O4'	2.22	0.40
36:5:1560:G:O2'	36:5:1561:G:OP1	2.33	0.40
36:5:1747:G:H4'	74:o8:4:GLU:HG3	2.04	0.40
36:5:1757:A:H2'	36:5:1758:G:C8	2.57	0.40
36:5:1765:U:H2'	36:5:1766:G:O4'	2.21	0.40
36:5:1830:G:C5	36:5:1831:U:C5	3.10	0.40
36:5:2300:G:C5	36:5:2301:U:C5	3.10	0.40
36:5:2651:G:C2	36:5:2796:G:C4	3.10	0.40
36:5:2771:U:O2'	36:5:2772:C:O4'	2.24	0.40
36:5:2859:U:H4'	36:5:2860:U:O5'	2.21	0.40
36:5:3122:A:C2'	36:5:3123:A:H5'	2.50	0.40
36:5:3348:G:N2	36:5:3358:U:C2	2.90	0.40
38:8:113:U:O2	38:8:113:U:H3'	2.21	0.40
40:l3:150:ARG:HG2	40:l3:150:ARG:NH1	2.21	0.40
40:l3:328:ILE:HG21	40:l3:328:ILE:HD13	1.80	0.40
42:l5:17:GLN:HE22	57:m1:22:HIS:HB2	1.86	0.40
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.56	0.40
43:l6:39:VAL:O	43:l6:87:THR:HG23	2.20	0.40
45:l8:90:THR:OG1	45:l8:91:PHE:N	2.54	0.40
45:l8:151:VAL:HG13	45:l8:199:ALA:HB2	2.02	0.40
46:l9:96:HIS:O	46:l9:98:PRO:HD3	2.21	0.40
47:m0:191:LYS:NZ	47:m0:212:GLU:OE2	2.52	0.40
48:m1:94:ARG:HB3	48:m1:95:ASN:H	1.68	0.40
49:m3:76:THR:HG21	49:m3:103:ASN:OD1	2.21	0.40
50:m4:109:ARG:HG3	52:m6:199:TYR:CE2	2.56	0.40
52:m6:108:ILE:HG21	52:m6:160:ARG:NH1	2.37	0.40
55:m9:107:ALA:O	55:m9:110:ARG:N	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:2:SER:N	59:n3:56:ASP:OD1	2.54	0.40
60:n4:115:LYS:HB2	60:n4:115:LYS:HE3	1.82	0.40
61:n5:110:VAL:HG22	61:n5:124:VAL:HG13	2.03	0.40
62:n6:12:ARG:HD2	62:n6:12:ARG:O	2.21	0.40
67:o1:25:PHE:C	67:o1:27:LYS:N	2.80	0.40
67:o1:82:GLU:O	67:o1:83:GLU:C	2.65	0.40
68:o2:44:ARG:NH1	68:o2:46:PHE:CE2	2.89	0.40
70:o4:57:LEU:HD13	70:o4:61:GLN:HB3	2.04	0.40
74:o8:46:ARG:HH21	74:o8:51:LEU:HB2	1.85	0.40
82:m2:63:UNK:HA	82:m2:71:UNK:O	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1353:U:O2'	36:5:3165:A:OP1[2_546]	2.15	0.05

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1747/1800 (97%)	544 (31%)	51 (2%)
1	6	1793/1800 (99%)	495 (27%)	48 (2%)
36	1	3145/3396 (92%)	783 (24%)	86 (2%)
36	5	3145/3396 (92%)	804 (25%)	77 (2%)
37	3	120/121 (99%)	20 (16%)	0
37	7	120/121 (99%)	28 (23%)	2 (1%)
38	4	157/158 (99%)	42 (26%)	3 (1%)
38	8	157/158 (99%)	44 (28%)	2 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
All	All	10384/10950 (94%)	2760 (26%)	269 (2%)

All (2760) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	10	G
1	2	25	C
1	2	26	A
1	2	27	U
1	2	31	C
1	2	34	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	54	C
1	2	57	G
1	2	60	U
1	2	66	U
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	76	A
1	2	80	A
1	2	104	A
1	2	114	C
1	2	116	U
1	2	128	U
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	144	U

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Mol	Chain	Res	Type
1	2	145	A
1	2	146	U
1	2	151	G
1	2	153	G
1	2	158	U
1	2	159	U
1	2	161	U
1	2	166	C
1	2	167	U
1	2	169	A
1	2	176	C
1	2	178	U
1	2	179	A
1	2	185	U
1	2	186	C
1	2	187	G
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	196	G
1	2	197	A
1	2	198	A
1	2	200	A
1	2	215	A
1	2	217	A
1	2	218	A
1	2	219	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	231	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	236	A
1	2	238	U
1	2	239	C

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Mol	Chain	Res	Type
1	2	240	U
1	2	241	U
1	2	242	U
1	2	246	G
1	2	249	U
1	2	250	C
1	2	260	U
1	2	261	U
1	2	265	A
1	2	270	C
1	2	271	A
1	2	272	U
1	2	274	G
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	284	G
1	2	285	G
1	2	288	A
1	2	290	G
1	2	299	A
1	2	302	U
1	2	308	C
1	2	309	C
1	2	313	U
1	2	314	C
1	2	316	A
1	2	319	U
1	2	321	C
1	2	322	G
1	2	337	G
1	2	338	C
1	2	339	C
1	2	346	G
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C

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Mol	Chain	Res	Type
1	2	387	A
1	2	390	G
1	2	393	C
1	2	397	A
1	2	400	A
1	2	401	A
1	2	402	C
1	2	404	G
1	2	416	A
1	2	417	A
1	2	418	G
1	2	419	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	430	G
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	446	A
1	2	448	C
1	2	454	U
1	2	455	C
1	2	459	G
1	2	468	A
1	2	470	A
1	2	473	A
1	2	475	A
1	2	477	A
1	2	480	G
1	2	483	A
1	2	484	C
1	2	485	A
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G

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Mol	Chain	Res	Type
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	508	U
1	2	510	G
1	2	511	A
1	2	512	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	527	A
1	2	532	U
1	2	533	U
1	2	536	C
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	546	U
1	2	548	G
1	2	554	C
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C
1	2	579	A
1	2	580	A
1	2	582	U
1	2	585	A
1	2	594	A
1	2	595	G

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Mol	Chain	Res	Type
1	2	597	G
1	2	598	U
1	2	611	U
1	2	619	A
1	2	620	A
1	2	621	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	630	A
1	2	631	G
1	2	639	U
1	2	640	U
1	2	650	U
1	2	652	G
1	2	653	C
1	2	654	C
1	2	656	G
1	2	658	C
1	2	677	G
1	2	680	U
1	2	682	C
1	2	684	A
1	2	685	A
1	2	686	C
1	2	692	C
1	2	694	U
1	2	696	C
1	2	697	C
1	2	698	U
1	2	699	U
1	2	700	C
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	706	A
1	2	707	A
1	2	708	C
1	2	709	C
1	2	710	U
1	2	711	U

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Mol	Chain	Res	Type
1	2	712	G
1	2	713	A
1	2	714	G
1	2	716	C
1	2	717	C
1	2	718	U
1	2	719	U
1	2	720	G
1	2	721	U
1	2	722	G
1	2	723	G
1	2	725	U
1	2	727	U
1	2	728	U
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	742	U
1	2	745	U
1	2	754	A
1	2	755	A
1	2	756	A
1	2	765	G
1	2	766	U
1	2	771	A
1	2	774	A
1	2	775	G
1	2	778	G
1	2	779	U
1	2	781	U
1	2	782	U
1	2	783	G
1	2	784	C
1	2	787	G
1	2	789	A
1	2	793	A
1	2	794	U

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Mol	Chain	Res	Type
1	2	795	U
1	2	796	A
1	2	806	A
1	2	807	A
1	2	811	A
1	2	812	A
1	2	814	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	823	G
1	2	824	G
1	2	829	A
1	2	830	U
1	2	831	U
1	2	833	U
1	2	846	G
1	2	848	C
1	2	852	C
1	2	855	A
1	2	856	A
1	2	862	A
1	2	863	A
1	2	876	G
1	2	886	U
1	2	892	A
1	2	897	C
1	2	898	A
1	2	908	U
1	2	912	U
1	2	913	G
1	2	914	G
1	2	915	A
1	2	916	U
1	2	921	U
1	2	933	A
1	2	935	U
1	2	942	G
1	2	952	A

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Mol	Chain	Res	Type
1	2	960	U
1	2	964	U
1	2	966	A
1	2	975	C
1	2	977	A
1	2	988	A
1	2	991	G
1	2	992	A
1	2	993	A
1	2	995	A
1	2	997	G
1	2	1001	A
1	2	1002	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1011	G
1	2	1014	G
1	2	1026	A
1	2	1028	C
1	2	1032	G
1	2	1039	A
1	2	1040	G
1	2	1043	A
1	2	1052	U
1	2	1053	G
1	2	1058	U
1	2	1059	U
1	2	1060	U
1	2	1061	A
1	2	1064	G
1	2	1074	G
1	2	1076	A
1	2	1079	U
1	2	1080	U
1	2	1082	C
1	2	1086	A
1	2	1091	A
1	2	1092	A
1	2	1093	A
1	2	1096	C
1	2	1097	U

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Mol	Chain	Res	Type
1	2	1100	G
1	2	1109	G
1	2	1138	A
1	2	1139	A
1	2	1141	G
1	2	1143	A
1	2	1146	G
1	2	1150	G
1	2	1151	A
1	2	1155	G
1	2	1157	A
1	2	1158	C
1	2	1160	A
1	2	1164	G
1	2	1167	G
1	2	1168	U
1	2	1185	U
1	2	1187	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	1217	A
1	2	1218	G
1	2	1226	A
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1235	C
1	2	1238	A
1	2	1241	G
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1250	U
1	2	1251	U
1	2	1258	U
1	2	1273	G
1	2	1276	U

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Mol	Chain	Res	Type
1	2	1284	C
1	2	1285	U
1	2	1286	U
1	2	1288	G
1	2	1307	U
1	2	1314	U
1	2	1315	U
1	2	1320	U
1	2	1321	A
1	2	1332	C
1	2	1337	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1346	A
1	2	1354	G
1	2	1355	C
1	2	1363	U
1	2	1364	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1379	C
1	2	1384	A
1	2	1388	A
1	2	1390	U
1	2	1391	A
1	2	1395	G
1	2	1398	U
1	2	1399	C
1	2	1400	A
1	2	1412	G
1	2	1413	U
1	2	1414	U
1	2	1415	U
1	2	1418	G
1	2	1427	A
1	2	1428	G
1	2	1432	U
1	2	1433	G

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Mol	Chain	Res	Type
1	2	1445	G
1	2	1446	A
1	2	1447	C
1	2	1448	G
1	2	1457	C
1	2	1458	G
1	2	1459	C
1	2	1460	A
1	2	1461	C
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1478	G
1	2	1482	C
1	2	1483	A
1	2	1487	A
1	2	1488	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1499	G
1	2	1501	C
1	2	1506	G
1	2	1514	U
1	2	1515	A
1	2	1516	A
1	2	1517	U
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1533	C
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1539	G
1	2	1542	G
1	2	1555	A
1	2	1557	U

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Mol	Chain	Res	Type
1	2	1559	A
1	2	1568	C
1	2	1569	A
1	2	1573	A
1	2	1574	G
1	2	1576	A
1	2	1584	G
1	2	1590	G
1	2	1596	C
1	2	1601	G
1	2	1614	A
1	2	1616	G
1	2	1619	C
1	2	1624	C
1	2	1626	U
1	2	1631	A
1	2	1634	C
1	2	1637	C
1	2	1650	U
1	2	1657	U
1	2	1658	G
1	2	1666	U
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1731	A
1	2	1750	A
1	2	1754	A
1	2	1755	A
1	2	1756	A
1	2	1760	G
1	2	1761	U
1	2	1762	A
1	2	1766	A
1	2	1769	U
1	2	1770	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1789	G
1	2	1790	A
1	2	1792	G

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Mol	Chain	Res	Type
1	2	1793	G
1	2	1794	A
1	2	1796	C
36	1	6	A
36	1	14	U
36	1	26	A
36	1	39	A
36	1	40	A
36	1	43	A
36	1	49	A
36	1	55	G
36	1	57	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	76	G
36	1	77	A
36	1	83	U
36	1	92	G
36	1	93	C
36	1	97	U
36	1	99	A
36	1	102	C
36	1	109	A
36	1	110	G
36	1	111	C
36	1	114	A
36	1	115	A
36	1	116	A
36	1	121	A
36	1	122	A
36	1	133	U
36	1	135	C
36	1	136	G
36	1	139	G
36	1	156	G
36	1	157	A
36	1	160	G
36	1	165	A
36	1	166	C
36	1	169	U

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Mol	Chain	Res	Type
36	1	170	G
36	1	177	U
36	1	187	A
36	1	188	U
36	1	190	U
36	1	191	U
36	1	201	A
36	1	202	G
36	1	210	U
36	1	211	A
36	1	213	A
36	1	218	G
36	1	219	A
36	1	220	G
36	1	224	C
36	1	227	G
36	1	239	G
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	246	U
36	1	247	C
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	269	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	315	C
36	1	316	U
36	1	323	A
36	1	326	U
36	1	329	U
36	1	339	C
36	1	350	C
36	1	352	A
36	1	374	A
36	1	375	A

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Mol	Chain	Res	Type
36	1	376	G
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	421	G
36	1	422	A
36	1	424	G
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	497	C
36	1	503	C
36	1	510	G
36	1	518	G
36	1	519	A
36	1	520	U
36	1	521	A
36	1	529	A
36	1	531	G
36	1	535	G
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	550	A
36	1	551	A
36	1	552	G
36	1	553	U
36	1	555	U
36	1	557	A
36	1	558	U
36	1	559	A
36	1	572	A
36	1	578	A
36	1	579	G
36	1	581	U
36	1	592	A
36	1	594	U

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Mol	Chain	Res	Type
36	1	596	C
36	1	599	C
36	1	600	G
36	1	601	U
36	1	604	G
36	1	609	G
36	1	611	A
36	1	618	C
36	1	619	A
36	1	620	U
36	1	621	A
36	1	624	G
36	1	636	C
36	1	637	C
36	1	638	C
36	1	642	U
36	1	644	G
36	1	648	C
36	1	649	A
36	1	651	G
36	1	657	A
36	1	660	A
36	1	661	G
36	1	662	U
36	1	675	C
36	1	677	A
36	1	681	U
36	1	683	U
36	1	685	G
36	1	691	A
36	1	705	A
36	1	708	G
36	1	709	A
36	1	711	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	717	C
36	1	719	U
36	1	762	U
36	1	764	U
36	1	766	U

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Mol	Chain	Res	Type
36	1	767	U
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	785	G
36	1	786	A
36	1	790	U
36	1	792	G
36	1	798	G
36	1	803	C
36	1	806	A
36	1	817	A
36	1	825	U
36	1	830	A
36	1	837	A
36	1	845	G
36	1	861	C
36	1	867	G
36	1	869	G
36	1	871	U
36	1	872	U
36	1	874	U
36	1	875	G
36	1	879	U
36	1	880	G
36	1	890	C
36	1	896	A
36	1	907	G
36	1	908	G
36	1	910	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	919	U
36	1	923	C
36	1	924	G
36	1	930	U
36	1	937	G
36	1	944	C
36	1	953	G
36	1	959	C

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Mol	Chain	Res	Type
36	1	960	U
36	1	963	G
36	1	969	C
36	1	979	U
36	1	981	U
36	1	982	C
36	1	984	G
36	1	991	G
36	1	993	G
36	1	994	G
36	1	995	U
36	1	1000	C
36	1	1001	G
36	1	1002	A
36	1	1003	A
36	1	1004	U
36	1	1010	G
36	1	1017	C
36	1	1018	G
36	1	1019	G
36	1	1020	G
36	1	1021	G
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1034	U
36	1	1036	A
36	1	1037	C
36	1	1041	U
36	1	1042	U
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1053	A
36	1	1063	G
36	1	1064	A
36	1	1065	A
36	1	1068	C
36	1	1072	G
36	1	1081	U
36	1	1082	U
36	1	1087	G

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Mol	Chain	Res	Type
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1117	G
36	1	1129	A
36	1	1131	G
36	1	1153	A
36	1	1159	A
36	1	1160	C
36	1	1178	G
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1197	A
36	1	1200	A
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1212	A
36	1	1213	G
36	1	1217	A
36	1	1222	G
36	1	1225	A
36	1	1226	G
36	1	1227	C
36	1	1232	C
36	1	1233	G
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G

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Mol	Chain	Res	Type
36	1	1251	A
36	1	1253	U
36	1	1254	C
36	1	1257	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1267	U
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1272	C
36	1	1274	A
36	1	1276	U
36	1	1278	A
36	1	1279	C
36	1	1285	G
36	1	1287	A
36	1	1292	C
36	1	1305	U
36	1	1307	G
36	1	1308	A
36	1	1309	U
36	1	1312	C
36	1	1313	G
36	1	1318	A
36	1	1325	U
36	1	1330	A
36	1	1331	U
36	1	1332	A
36	1	1339	C
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

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Mol	Chain	Res	Type
36	1	1373	A
36	1	1386	A
36	1	1392	G
36	1	1397	C
36	1	1399	A
36	1	1400	G
36	1	1405	U
36	1	1406	A
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	1446	A
36	1	1450	G
36	1	1468	A
36	1	1471	U
36	1	1472	U
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1508	C
36	1	1511	U
36	1	1527	C
36	1	1533	U
36	1	1535	A
36	1	1548	C
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1560	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U

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Mol	Chain	Res	Type
36	1	1570	U
36	1	1572	U
36	1	1578	C
36	1	1579	C
36	1	1580	A
36	1	1581	C
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1593	A
36	1	1594	A
36	1	1605	A
36	1	1607	U
36	1	1608	C
36	1	1620	U
36	1	1621	A
36	1	1624	G
36	1	1629	U
36	1	1633	C
36	1	1639	C
36	1	1641	U
36	1	1643	A
36	1	1645	U
36	1	1656	A
36	1	1657	C
36	1	1668	G
36	1	1679	A
36	1	1683	A
36	1	1687	U
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1731	A
36	1	1736	G
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1756	C
36	1	1761	C

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Mol	Chain	Res	Type
36	1	1764	U
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G
36	1	1773	C
36	1	1775	G
36	1	1780	G
36	1	1782	U
36	1	1793	C
36	1	1797	A
36	1	1810	A
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1835	A
36	1	1839	A
36	1	1842	A
36	1	1845	G
36	1	1846	C
36	1	1849	C
36	1	1858	A
36	1	1866	C
36	1	1871	U
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1901	A
36	1	1906	G
36	1	1908	A
36	1	1920	U
36	1	1951	C
36	1	1952	G
36	1	1953	G
36	1	1954	G
36	1	2101	C
36	1	2102	U
36	1	2106	A

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Mol	Chain	Res	Type
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2116	G
36	1	2121	G
36	1	2122	G
36	1	2127	U
36	1	2131	A
36	1	2134	G
36	1	2139	A
36	1	2140	U
36	1	2149	A
36	1	2156	C
36	1	2158	A
36	1	2169	G
36	1	2187	G
36	1	2198	A
36	1	2205	U
36	1	2208	A
36	1	2209	U
36	1	2210	G
36	1	2213	A
36	1	2223	A
36	1	2225	U
36	1	2228	A
36	1	2229	A
36	1	2239	G
36	1	2244	A
36	1	2245	C
36	1	2246	G
36	1	2247	G
36	1	2249	G
36	1	2250	G
36	1	2252	A
36	1	2255	A
36	1	2256	A
36	1	2262	A
36	1	2266	U
36	1	2272	G
36	1	2273	G
36	1	2276	G

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Mol	Chain	Res	Type
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2284	C
36	1	2288	G
36	1	2295	A
36	1	2303	A
36	1	2306	C
36	1	2307	G
36	1	2308	C
36	1	2309	A
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2318	U
36	1	2319	U
36	1	2324	A
36	1	2334	U
36	1	2336	U
36	1	2350	C
36	1	2352	A
36	1	2361	A
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2382	G
36	1	2385	G
36	1	2388	U
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2402	A
36	1	2403	G
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2427	U
36	1	2444	C
36	1	2445	A
36	1	2502	A

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Mol	Chain	Res	Type
36	1	2503	G
36	1	2504	U
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2530	G
36	1	2531	C
36	1	2532	U
36	1	2533	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	2544	U
36	1	2545	C
36	1	2548	C
36	1	2549	G
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C
36	1	2573	G
36	1	2581	U
36	1	2582	C
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2626	A
36	1	2629	U
36	1	2637	A

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Mol	Chain	Res	Type
36	1	2638	C
36	1	2652	U
36	1	2656	A
36	1	2657	A
36	1	2660	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	2690	G
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2704	A
36	1	2705	A
36	1	2714	G
36	1	2725	U
36	1	2727	A
36	1	2728	G
36	1	2729	U
36	1	2739	A
36	1	2740	A
36	1	2752	U
36	1	2753	G
36	1	2762	A
36	1	2772	C
36	1	2773	C
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2796	G
36	1	2797	C
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2810	C
36	1	2814	G
36	1	2816	G
36	1	2817	A
36	1	2818	U

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Mol	Chain	Res	Type
36	1	2819	A
36	1	2821	C
36	1	2822	U
36	1	2827	U
36	1	2829	U
36	1	2839	G
36	1	2842	U
36	1	2844	C
36	1	2845	A
36	1	2847	A
36	1	2849	C
36	1	2855	U
36	1	2860	U
36	1	2862	U
36	1	2863	G
36	1	2865	U
36	1	2867	C
36	1	2871	G
36	1	2872	A
36	1	2884	C
36	1	2887	A
36	1	2889	C
36	1	2893	C
36	1	2897	A
36	1	2898	G
36	1	2899	C
36	1	2911	A
36	1	2917	G
36	1	2923	U
36	1	2933	A
36	1	2935	U
36	1	2936	A
36	1	2942	C
36	1	2945	G
36	1	2947	G
36	1	2954	U
36	1	2971	A
36	1	2973	G
36	1	2974	U
36	1	2977	G
36	1	2979	U
36	1	2982	A

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Mol	Chain	Res	Type
36	1	2983	C
36	1	2990	G
36	1	2996	U
36	1	2997	G
36	1	3012	A
36	1	3021	A
36	1	3030	G
36	1	3041	U
36	1	3049	A
36	1	3056	U
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3085	G
36	1	3086	A
36	1	3087	A
36	1	3092	C
36	1	3093	C
36	1	3113	A
36	1	3120	C
36	1	3122	A
36	1	3130	A
36	1	3131	U
36	1	3139	A
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3158	G
36	1	3164	C
36	1	3165	A
36	1	3167	A
36	1	3168	A
36	1	3170	A
36	1	3171	U
36	1	3173	G

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Mol	Chain	Res	Type
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U
36	1	3198	U
36	1	3199	G
36	1	3204	C
36	1	3206	C
36	1	3207	U
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3228	C
36	1	3229	G
36	1	3242	G
36	1	3243	A
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3249	C
36	1	3253	G
36	1	3259	U
36	1	3262	U
36	1	3263	G
36	1	3269	U
36	1	3270	U
36	1	3273	A
36	1	3276	G
36	1	3279	A
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3288	G
36	1	3289	G
36	1	3290	G
36	1	3293	U
36	1	3294	A
36	1	3295	A

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Mol	Chain	Res	Type
36	1	3304	U
36	1	3309	G
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3335	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	3363	U
36	1	3369	G
36	1	3372	A
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	7	G
37	3	9	C
37	3	21	G
37	3	22	A
37	3	25	G
37	3	27	A
37	3	44	C
37	3	45	A
37	3	51	A
37	3	54	U
37	3	60	G
37	3	65	G

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Mol	Chain	Res	Type
37	3	74	C
37	3	76	A
37	3	92	A
37	3	93	C
37	3	102	A
37	3	106	U
37	3	112	G
37	3	121	U
38	4	2	A
38	4	17	A
38	4	20	U
38	4	23	U
38	4	26	U
38	4	34	U
38	4	35	C
38	4	43	A
38	4	50	C
38	4	51	G
38	4	52	A
38	4	54	A
38	4	58	G
38	4	59	A
38	4	62	C
38	4	63	G
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	85	G
38	4	86	U
38	4	87	G
38	4	90	U
38	4	95	G
38	4	96	A
38	4	97	A
38	4	104	A
38	4	106	C
38	4	111	A
38	4	113	U
38	4	114	G
38	4	125	U

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Mol	Chain	Res	Type
38	4	126	A
38	4	128	U
38	4	134	G
38	4	138	A
38	4	152	G
38	4	155	A
38	4	157	U
38	4	158	U
1	6	2	A
1	6	4	C
1	6	6	G
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	38	C
1	6	45	U
1	6	46	A
1	6	47	A
1	6	50	C
1	6	57	G
1	6	61	A
1	6	66	U
1	6	67	A
1	6	68	A
1	6	69	G
1	6	73	U
1	6	75	U
1	6	76	A
1	6	77	U
1	6	78	A
1	6	101	U
1	6	104	A
1	6	105	A
1	6	111	U
1	6	114	C
1	6	115	G
1	6	132	U
1	6	137	U
1	6	138	A

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Mol	Chain	Res	Type
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	158	U
1	6	159	U
1	6	171	A
1	6	176	C
1	6	178	U
1	6	185	U
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	196	G
1	6	199	G
1	6	200	A
1	6	214	G
1	6	215	A
1	6	216	U
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A
1	6	222	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U
1	6	233	C
1	6	235	G
1	6	240	U
1	6	241	U
1	6	249	U

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Mol	Chain	Res	Type
1	6	250	C
1	6	260	U
1	6	261	U
1	6	265	A
1	6	271	A
1	6	272	U
1	6	273	G
1	6	275	C
1	6	277	U
1	6	278	U
1	6	280	U
1	6	281	G
1	6	287	G
1	6	292	U
1	6	299	A
1	6	302	U
1	6	308	C
1	6	314	C
1	6	316	A
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	352	A
1	6	359	A
1	6	360	A
1	6	361	C
1	6	370	A
1	6	381	C
1	6	386	G
1	6	390	G
1	6	400	A
1	6	401	A
1	6	402	C
1	6	404	G
1	6	416	A
1	6	418	G
1	6	419	G
1	6	424	C
1	6	425	A

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Mol	Chain	Res	Type
1	6	426	G
1	6	429	G
1	6	434	G
1	6	437	A
1	6	439	U
1	6	444	C
1	6	448	C
1	6	470	A
1	6	475	A
1	6	477	A
1	6	484	C
1	6	485	A
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	496	G
1	6	499	U
1	6	500	C
1	6	501	U
1	6	502	U
1	6	504	U
1	6	505	A
1	6	506	A
1	6	507	U
1	6	508	U
1	6	510	G
1	6	511	A
1	6	512	A
1	6	513	U
1	6	515	A
1	6	518	A
1	6	519	C
1	6	527	A
1	6	536	C
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	554	C
1	6	557	G
1	6	558	U
1	6	559	C
1	6	565	C
1	6	570	A
1	6	574	G
1	6	575	C
1	6	578	U
1	6	579	A
1	6	580	A
1	6	582	U
1	6	584	C
1	6	588	U
1	6	594	A
1	6	595	G
1	6	611	U
1	6	619	A
1	6	620	A
1	6	622	A
1	6	623	A
1	6	634	G
1	6	635	A
1	6	637	C
1	6	639	U
1	6	650	U
1	6	651	G
1	6	652	G
1	6	653	C
1	6	655	G
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
1	6	669	G
1	6	670	U
1	6	676	G

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Mol	Chain	Res	Type
1	6	678	A
1	6	679	U
1	6	680	U
1	6	681	U
1	6	682	C
1	6	683	C
1	6	684	A
1	6	691	C
1	6	696	C
1	6	697	C
1	6	698	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	718	U
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	723	G
1	6	726	C
1	6	730	G
1	6	741	C
1	6	742	U
1	6	744	U
1	6	751	G
1	6	752	A
1	6	754	A
1	6	755	A
1	6	756	A
1	6	765	G
1	6	774	A
1	6	775	G
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	789	A
1	6	792	U
1	6	793	A
1	6	794	U

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Mol	Chain	Res	Type
1	6	811	A
1	6	812	A
1	6	814	A
1	6	815	G
1	6	816	G
1	6	820	U
1	6	821	U
1	6	823	G
1	6	824	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	856	A
1	6	860	U
1	6	862	A
1	6	863	A
1	6	868	G
1	6	873	U
1	6	875	G
1	6	898	A
1	6	906	A
1	6	912	U
1	6	913	G
1	6	914	G
1	6	915	A
1	6	916	U
1	6	925	G
1	6	931	C
1	6	933	A
1	6	935	U
1	6	940	A
1	6	942	G
1	6	944	A
1	6	945	U
1	6	954	G
1	6	959	U
1	6	960	U

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Mol	Chain	Res	Type
1	6	966	A
1	6	969	C
1	6	971	A
1	6	983	A
1	6	992	A
1	6	993	A
1	6	996	U
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1021	C
1	6	1026	A
1	6	1028	C
1	6	1029	U
1	6	1039	A
1	6	1040	G
1	6	1041	G
1	6	1042	G
1	6	1043	A
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	1071	U
1	6	1074	G
1	6	1080	U
1	6	1081	A
1	6	1082	C
1	6	1092	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1100	G
1	6	1109	G
1	6	1121	C
1	6	1138	A
1	6	1151	A
1	6	1155	G
1	6	1158	C
1	6	1159	C

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Mol	Chain	Res	Type
1	6	1160	A
1	6	1161	C
1	6	1167	G
1	6	1185	U
1	6	1194	A
1	6	1196	A
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1217	A
1	6	1218	G
1	6	1219	A
1	6	1220	C
1	6	1221	A
1	6	1226	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1236	A
1	6	1239	U
1	6	1241	G
1	6	1242	A
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1248	C
1	6	1252	C
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1259	U
1	6	1275	A
1	6	1285	U
1	6	1286	U
1	6	1288	G
1	6	1293	U
1	6	1307	U
1	6	1312	A
1	6	1314	U
1	6	1315	U
1	6	1316	G

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Mol	Chain	Res	Type
1	6	1319	A
1	6	1320	U
1	6	1321	A
1	6	1343	U
1	6	1344	A
1	6	1345	A
1	6	1346	A
1	6	1354	G
1	6	1355	C
1	6	1360	A
1	6	1361	U
1	6	1362	U
1	6	1363	U
1	6	1364	G
1	6	1370	U
1	6	1371	A
1	6	1373	C
1	6	1382	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	1412	G
1	6	1413	U
1	6	1415	U
1	6	1422	A
1	6	1427	A
1	6	1428	G
1	6	1431	C
1	6	1433	G
1	6	1445	G
1	6	1446	A
1	6	1447	C
1	6	1448	G
1	6	1459	C
1	6	1461	C
1	6	1471	A
1	6	1481	C
1	6	1482	C
1	6	1483	A

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Mol	Chain	Res	Type
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	1496	U
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1517	U
1	6	1519	U
1	6	1520	U
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1526	A
1	6	1531	G
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1539	G
1	6	1540	G
1	6	1550	A
1	6	1554	U
1	6	1557	U
1	6	1559	A
1	6	1560	U
1	6	1569	A
1	6	1573	A
1	6	1574	G
1	6	1575	G
1	6	1584	G
1	6	1590	G
1	6	1596	C
1	6	1600	A
1	6	1601	G
1	6	1619	C
1	6	1620	C
1	6	1621	U

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Mol	Chain	Res	Type
1	6	1634	C
1	6	1637	C
1	6	1638	G
1	6	1641	C
1	6	1657	U
1	6	1658	G
1	6	1682	U
1	6	1696	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	1703	C
1	6	1712	A
1	6	1715	G
1	6	1716	C
1	6	1717	G
1	6	1727	G
1	6	1731	A
1	6	1735	U
1	6	1736	G
1	6	1742	U
1	6	1747	G
1	6	1760	G
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1770	U
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1788	G
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1796	C
1	6	1798	U
1	6	1799	U
1	6	1800	A
36	5	15	C

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Mol	Chain	Res	Type
36	5	16	A
36	5	26	A
36	5	40	A
36	5	43	A
36	5	44	U
36	5	49	A
36	5	58	G
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	73	C
36	5	76	G
36	5	85	A
36	5	92	G
36	5	94	G
36	5	96	G
36	5	102	C
36	5	108	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	130	A
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	152	U
36	5	156	G
36	5	157	A
36	5	165	A
36	5	169	U
36	5	170	G
36	5	171	G
36	5	173	G
36	5	174	C
36	5	178	U
36	5	180	C

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Mol	Chain	Res	Type
36	5	181	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	200	C
36	5	203	G
36	5	204	A
36	5	206	G
36	5	210	U
36	5	211	A
36	5	213	A
36	5	218	G
36	5	219	A
36	5	220	G
36	5	221	A
36	5	222	A
36	5	227	G
36	5	231	G
36	5	234	G
36	5	236	G
36	5	239	G
36	5	240	U
36	5	244	G
36	5	247	C
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A
36	5	259	C
36	5	269	G
36	5	284	A
36	5	286	U
36	5	294	U
36	5	295	A
36	5	311	C
36	5	321	C
36	5	322	U
36	5	323	A
36	5	328	U

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Mol	Chain	Res	Type
36	5	329	U
36	5	333	G
36	5	334	A
36	5	338	A
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	361	A
36	5	366	A
36	5	376	G
36	5	377	A
36	5	384	A
36	5	395	A
36	5	398	A
36	5	399	A
36	5	401	U
36	5	402	A
36	5	403	C
36	5	404	G
36	5	417	A
36	5	419	G
36	5	421	G
36	5	422	A
36	5	426	G
36	5	436	A
36	5	437	G
36	5	439	C
36	5	441	U
36	5	442	G
36	5	492	U
36	5	507	U
36	5	520	U
36	5	521	A
36	5	525	C
36	5	531	G
36	5	535	G
36	5	538	G
36	5	539	C
36	5	542	G
36	5	546	C
36	5	547	G

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Mol	Chain	Res	Type
36	5	548	G
36	5	553	U
36	5	555	U
36	5	557	A
36	5	558	U
36	5	559	A
36	5	569	A
36	5	578	A
36	5	579	G
36	5	582	G
36	5	592	A
36	5	604	G
36	5	609	G
36	5	611	A
36	5	612	U
36	5	619	A
36	5	621	A
36	5	636	C
36	5	648	C
36	5	649	A
36	5	660	A
36	5	662	U
36	5	677	A
36	5	681	U
36	5	692	A
36	5	699	A
36	5	705	A
36	5	712	G
36	5	715	A
36	5	716	A
36	5	719	U
36	5	724	U
36	5	725	G
36	5	726	G
36	5	727	G
36	5	744	A
36	5	762	U
36	5	765	C
36	5	766	U
36	5	767	U
36	5	768	C
36	5	776	U

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Mol	Chain	Res	Type
36	5	777	U
36	5	780	A
36	5	781	G
36	5	784	A
36	5	785	G
36	5	786	A
36	5	805	G
36	5	806	A
36	5	817	A
36	5	821	U
36	5	829	U
36	5	830	A
36	5	831	G
36	5	837	A
36	5	842	G
36	5	857	G
36	5	861	C
36	5	869	G
36	5	874	U
36	5	876	A
36	5	879	U
36	5	882	A
36	5	890	C
36	5	891	G
36	5	896	A
36	5	897	U
36	5	898	U
36	5	907	G
36	5	908	G
36	5	909	G
36	5	910	G
36	5	913	A
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	923	C
36	5	924	G
36	5	929	A
36	5	931	C
36	5	932	U
36	5	937	G

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Mol	Chain	Res	Type
36	5	944	C
36	5	948	C
36	5	959	C
36	5	960	U
36	5	964	G
36	5	979	U
36	5	980	A
36	5	981	U
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	1017	C
36	5	1019	G
36	5	1021	G
36	5	1024	G
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	1057	A
36	5	1059	G
36	5	1063	G
36	5	1064	A
36	5	1065	A
36	5	1072	G
36	5	1081	U
36	5	1082	U
36	5	1083	G
36	5	1093	A
36	5	1094	U
36	5	1095	U
36	5	1097	G
36	5	1098	A
36	5	1103	A

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Mol	Chain	Res	Type
36	5	1104	G
36	5	1106	G
36	5	1112	A
36	5	1115	G
36	5	1117	G
36	5	1129	A
36	5	1131	G
36	5	1143	A
36	5	1152	G
36	5	1153	A
36	5	1154	A
36	5	1155	C
36	5	1159	A
36	5	1161	G
36	5	1162	U
36	5	1169	A
36	5	1178	G
36	5	1179	A
36	5	1180	A
36	5	1181	U
36	5	1190	A
36	5	1191	U
36	5	1192	C
36	5	1193	A
36	5	1201	C
36	5	1206	G
36	5	1209	G
36	5	1220	U
36	5	1222	G
36	5	1232	C
36	5	1235	U
36	5	1236	G
36	5	1237	G
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1244	A
36	5	1245	A
36	5	1246	G
36	5	1252	A
36	5	1258	U
36	5	1262	G

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Mol	Chain	Res	Type
36	5	1263	A
36	5	1264	G
36	5	1266	G
36	5	1268	G
36	5	1269	U
36	5	1275	C
36	5	1281	G
36	5	1284	C
36	5	1285	G
36	5	1292	C
36	5	1305	U
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1314	C
36	5	1324	U
36	5	1330	A
36	5	1331	U
36	5	1332	A
36	5	1347	U
36	5	1348	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1354	G
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1365	G
36	5	1368	U
36	5	1370	G
36	5	1372	C
36	5	1377	G
36	5	1379	G
36	5	1380	G
36	5	1385	C
36	5	1386	A
36	5	1391	C
36	5	1392	G
36	5	1398	U
36	5	1399	A

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Mol	Chain	Res	Type
36	5	1400	G
36	5	1418	A
36	5	1419	A
36	5	1421	G
36	5	1428	A
36	5	1431	G
36	5	1433	A
36	5	1434	G
36	5	1437	C
36	5	1440	G
36	5	1441	G
36	5	1450	G
36	5	1456	A
36	5	1465	A
36	5	1466	G
36	5	1481	A
36	5	1482	A
36	5	1483	G
36	5	1495	U
36	5	1502	C
36	5	1507	G
36	5	1508	C
36	5	1511	U
36	5	1519	G
36	5	1533	U
36	5	1536	G
36	5	1549	U
36	5	1552	G
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	1564	U
36	5	1566	A
36	5	1567	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1572	U

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Mol	Chain	Res	Type
36	5	1574	C
36	5	1575	A
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1581	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1598	G
36	5	1600	U
36	5	1605	A
36	5	1607	U
36	5	1608	C
36	5	1619	A
36	5	1620	U
36	5	1629	U
36	5	1639	C
36	5	1641	U
36	5	1642	A
36	5	1643	A
36	5	1644	C
36	5	1645	U
36	5	1666	G
36	5	1683	A
36	5	1684	U
36	5	1686	U
36	5	1687	U
36	5	1688	U
36	5	1713	G
36	5	1714	A
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1729	A
36	5	1733	G
36	5	1736	G
36	5	1750	A
36	5	1751	G
36	5	1760	A
36	5	1761	C
36	5	1762	C

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Mol	Chain	Res	Type
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1767	C
36	5	1769	G
36	5	1770	G
36	5	1775	G
36	5	1780	G
36	5	1793	C
36	5	1795	U
36	5	1797	A
36	5	1810	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	1866	C
36	5	1871	U
36	5	1876	U
36	5	1878	G
36	5	1879	A
36	5	1880	U
36	5	1881	A
36	5	1885	U
36	5	1886	A
36	5	1891	A
36	5	1893	A
36	5	1901	A
36	5	1903	U
36	5	1904	C
36	5	1906	G
36	5	1922	A
36	5	1944	U
36	5	1948	G
36	5	2100	A

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Mol	Chain	Res	Type
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	2131	A
36	5	2154	U
36	5	2158	A
36	5	2169	G
36	5	2176	U
36	5	2187	G
36	5	2192	C
36	5	2198	A
36	5	2205	U
36	5	2209	U
36	5	2210	G
36	5	2223	A
36	5	2225	U
36	5	2228	A
36	5	2231	C
36	5	2234	G
36	5	2244	A
36	5	2250	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2264	U
36	5	2270	A
36	5	2272	G
36	5	2273	G
36	5	2276	G
36	5	2281	A
36	5	2282	U
36	5	2283	G
36	5	2287	C
36	5	2288	G
36	5	2291	A
36	5	2298	U

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Mol	Chain	Res	Type
36	5	2307	G
36	5	2309	A
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2362	C
36	5	2365	C
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2379	U
36	5	2385	G
36	5	2388	U
36	5	2392	C
36	5	2393	G
36	5	2394	G
36	5	2397	A
36	5	2398	A
36	5	2401	A
36	5	2403	G
36	5	2404	A
36	5	2405	C
36	5	2410	U
36	5	2411	U
36	5	2412	G
36	5	2413	A
36	5	2414	G
36	5	2418	G
36	5	2420	C
36	5	2435	G
36	5	2437	G
36	5	2438	A
36	5	2439	A
36	5	2441	A
36	5	2443	A
36	5	2444	C
36	5	2504	U
36	5	2505	U

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Mol	Chain	Res	Type
36	5	2506	U
36	5	2507	C
36	5	2508	U
36	5	2509	U
36	5	2510	U
36	5	2511	A
36	5	2513	U
36	5	2514	U
36	5	2515	A
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2530	G
36	5	2531	C
36	5	2535	A
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2543	U
36	5	2545	C
36	5	2547	A
36	5	2549	G
36	5	2552	C
36	5	2554	A
36	5	2555	G
36	5	2557	A
36	5	2560	C
36	5	2562	A
36	5	2566	C
36	5	2567	C
36	5	2568	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2578	U
36	5	2584	G
36	5	2585	G

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Mol	Chain	Res	Type
36	5	2586	G
36	5	2589	G
36	5	2593	A
36	5	2598	G
36	5	2600	C
36	5	2606	G
36	5	2607	G
36	5	2609	A
36	5	2614	G
36	5	2618	G
36	5	2629	U
36	5	2637	A
36	5	2638	C
36	5	2642	A
36	5	2652	U
36	5	2653	C
36	5	2656	A
36	5	2667	A
36	5	2670	G
36	5	2674	A
36	5	2675	C
36	5	2677	G
36	5	2681	U
36	5	2689	A
36	5	2690	G
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2705	A
36	5	2706	G
36	5	2707	C
36	5	2714	G
36	5	2725	U
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2740	A
36	5	2752	U
36	5	2753	G
36	5	2755	C
36	5	2762	A
36	5	2772	C

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Mol	Chain	Res	Type
36	5	2773	C
36	5	2777	G
36	5	2778	G
36	5	2779	A
36	5	2782	U
36	5	2783	U
36	5	2788	C
36	5	2796	G
36	5	2797	C
36	5	2800	G
36	5	2801	A
36	5	2802	A
36	5	2810	C
36	5	2814	G
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2837	A
36	5	2839	G
36	5	2842	U
36	5	2843	U
36	5	2844	C
36	5	2845	A
36	5	2847	A
36	5	2849	C
36	5	2853	A
36	5	2870	C
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2875	U
36	5	2876	C
36	5	2880	U
36	5	2887	A
36	5	2896	A
36	5	2899	C
36	5	2900	A
36	5	2911	A
36	5	2921	U
36	5	2923	U
36	5	2935	U
36	5	2936	A

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Mol	Chain	Res	Type
36	5	2941	A
36	5	2942	C
36	5	2943	G
36	5	2947	G
36	5	2954	U
36	5	2960	C
36	5	2964	G
36	5	2971	A
36	5	2972	G
36	5	2973	G
36	5	2974	U
36	5	2979	U
36	5	2980	U
36	5	2983	C
36	5	2988	C
36	5	2989	U
36	5	2990	G
36	5	2996	U
36	5	2997	G
36	5	3006	A
36	5	3012	A
36	5	3025	C
36	5	3030	G
36	5	3034	C
36	5	3049	A
36	5	3056	U
36	5	3057	U
36	5	3058	U
36	5	3059	G
36	5	3078	U
36	5	3079	U
36	5	3081	C
36	5	3086	A
36	5	3092	C
36	5	3098	G
36	5	3104	U
36	5	3115	C
36	5	3119	U
36	5	3122	A
36	5	3123	A
36	5	3127	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	3148	U
36	5	3153	U
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3159	C
36	5	3164	C
36	5	3165	A
36	5	3166	C
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3176	G
36	5	3180	A
36	5	3181	C
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	3228	C
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	3253	G
36	5	3259	U
36	5	3263	G

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Mol	Chain	Res	Type
36	5	3268	A
36	5	3269	U
36	5	3270	U
36	5	3273	A
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3282	U
36	5	3283	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	3294	A
36	5	3303	G
36	5	3304	U
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3318	G
36	5	3319	U
36	5	3320	A
36	5	3324	C
36	5	3330	A
36	5	3331	U
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3350	C
36	5	3351	U
36	5	3352	U
36	5	3354	U
36	5	3356	G
36	5	3358	U
36	5	3360	C
36	5	3368	U
36	5	3369	G
36	5	3376	A
36	5	3378	C

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Mol	Chain	Res	Type
36	5	3382	U
36	5	3383	G
36	5	3389	U
36	5	3390	G
36	5	3396	U
37	7	2	G
37	7	7	G
37	7	9	C
37	7	22	A
37	7	29	C
37	7	38	U
37	7	39	C
37	7	41	G
37	7	49	G
37	7	51	A
37	7	53	U
37	7	54	U
37	7	55	A
37	7	57	G
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	76	A
37	7	84	A
37	7	92	A
37	7	93	C
37	7	102	A
37	7	104	A
37	7	110	G
37	7	112	G
37	7	114	U
37	7	121	U
38	8	13	A
38	8	21	C
38	8	23	U
38	8	34	U
38	8	35	C
38	8	48	A
38	8	50	C
38	8	51	G
38	8	53	A

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Mol	Chain	Res	Type
38	8	59	A
38	8	62	C
38	8	63	G
38	8	64	U
38	8	71	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	88	A
38	8	90	U
38	8	95	G
38	8	96	A
38	8	97	A
38	8	104	A
38	8	105	A
38	8	106	C
38	8	110	C
38	8	111	A
38	8	113	U
38	8	114	G
38	8	116	G
38	8	122	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	148	G
38	8	152	G
38	8	157	U
38	8	158	U

All (269) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	25	C
1	2	45	U

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Mol	Chain	Res	Type
1	2	73	U
1	2	130	C
1	2	131	C
1	2	136	C
1	2	139	C
1	2	158	U
1	2	187	G
1	2	192	U
1	2	218	A
1	2	240	U
1	2	278	U
1	2	280	U
1	2	321	C
1	2	400	A
1	2	417	A
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	545	A
1	2	555	A
1	2	558	U
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	755	A
1	2	794	U
1	2	829	A
1	2	913	G
1	2	1058	U
1	2	1081	A
1	2	1157	A
1	2	1226	A
1	2	1234	A
1	2	1244	A
1	2	1250	U
1	2	1344	A
1	2	1370	U
1	2	1481	C
1	2	1489	U
1	2	1568	C

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Mol	Chain	Res	Type
1	2	1573	A
1	2	1600	A
1	2	1615	C
1	2	1657	U
1	2	1761	U
1	2	1793	G
36	1	40	A
36	1	65	A
36	1	169	U
36	1	210	U
36	1	223	U
36	1	239	G
36	1	282	G
36	1	374	A
36	1	518	G
36	1	547	G
36	1	594	U
36	1	637	C
36	1	763	G
36	1	816	A
36	1	896	A
36	1	916	G
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1181	U
36	1	1190	A
36	1	1196	C
36	1	1268	G
36	1	1273	A
36	1	1307	G
36	1	1329	U
36	1	1331	U
36	1	1352	A
36	1	1355	A
36	1	1484	U
36	1	1514	G
36	1	1554	U
36	1	1562	C

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Mol	Chain	Res	Type
36	1	1589	A
36	1	1607	U
36	1	1716	U
36	1	1724	U
36	1	1820	U
36	1	2101	C
36	1	2111	G
36	1	2112	U
36	1	2121	G
36	1	2209	U
36	1	2249	G
36	1	2281	A
36	1	2282	U
36	1	2307	G
36	1	2323	G
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2418	G
36	1	2513	U
36	1	2537	U
36	1	2539	C
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2656	A
36	1	2704	A
36	1	2728	G
36	1	2772	C
36	1	2801	A
36	1	2817	A
36	1	2818	U
36	1	2859	U
36	1	3056	U
36	1	3078	U
36	1	3121	U
36	1	3157	U
36	1	3195	U
36	1	3218	A
36	1	3228	C
36	1	3242	G
36	1	3269	U

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Mol	Chain	Res	Type
36	1	3275	U
36	1	3316	A
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
36	1	3382	U
38	4	82	U
38	4	85	G
38	4	125	U
1	6	25	C
1	6	66	U
1	6	76	A
1	6	114	C
1	6	136	C
1	6	139	C
1	6	158	U
1	6	187	G
1	6	192	U
1	6	217	A
1	6	240	U
1	6	272	U
1	6	400	A
1	6	417	A
1	6	512	A
1	6	539	G
1	6	542	A
1	6	557	G
1	6	558	U
1	6	651	G
1	6	697	C
1	6	717	C
1	6	720	G
1	6	755	A
1	6	779	U
1	6	815	G
1	6	829	A
1	6	834	G
1	6	944	A
1	6	1051	G
1	6	1058	U

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Mol	Chain	Res	Type
1	6	1097	U
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1431	C
1	6	1481	C
1	6	1491	U
1	6	1535	U
1	6	1568	C
1	6	1573	A
1	6	1600	A
1	6	1620	C
1	6	1637	C
1	6	1657	U
1	6	1696	G
1	6	1698	G
1	6	1700	C
36	5	43	A
36	5	151	A
36	5	210	U
36	5	238	A
36	5	588	G
36	5	594	U
36	5	715	A
36	5	719	U
36	5	765	C
36	5	805	G
36	5	896	A
36	5	916	G
36	5	993	G
36	5	1027	A
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1154	A
36	5	1160	C
36	5	1192	C
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1329	U
36	5	1331	U

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Mol	Chain	Res	Type
36	5	1352	A
36	5	1355	A
36	5	1367	G
36	5	1481	A
36	5	1507	G
36	5	1514	G
36	5	1560	G
36	5	1574	C
36	5	1580	A
36	5	1607	U
36	5	1687	U
36	5	1716	U
36	5	1792	C
36	5	1816	A
36	5	1878	G
36	5	2101	C
36	5	2111	G
36	5	2112	U
36	5	2116	G
36	5	2204	C
36	5	2209	U
36	5	2249	G
36	5	2255	A
36	5	2281	A
36	5	2372	A
36	5	2374	C
36	5	2440	G
36	5	2504	U
36	5	2507	C
36	5	2513	U
36	5	2539	C
36	5	2689	A
36	5	2728	G
36	5	2772	C
36	5	2818	U
36	5	2887	A
36	5	2971	A
36	5	3056	U
36	5	3078	U
36	5	3154	C
36	5	3195	U
36	5	3218	A

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Mol	Chain	Res	Type
36	5	3228	C
36	5	3244	A
36	5	3269	U
36	5	3275	U
36	5	3289	G
36	5	3330	A
36	5	3340	G
36	5	3341	U
36	5	3354	U
36	5	3357	U
37	7	49	G
37	7	111	U
38	8	113	U
38	8	126	A

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2557 ligands modelled in this entry, 1423 are monoatomic - leaving 1134 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	2	2124	-	0,6,6	-	-	-		
86	OHX	5	4075	-	0,6,6	-	-	-		
86	OHX	6	2088	-	0,6,6	-	-	-		
86	OHX	2	2113	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4154	-	0,6,6	-	-	-		
86	OHX	1	4001	-	0,6,6	-	-	-		
86	OHX	6	2050	-	0,6,6	-	-	-		
86	OHX	1	3985	-	0,6,6	-	-	-		
86	OHX	2	2026	-	0,6,6	-	-	-		
86	OHX	1	3904	-	0,6,6	-	-	-		
86	OHX	2	2037	-	0,6,6	-	-	-		
86	OHX	2	2047	-	0,6,6	-	-	-		
86	OHX	1	3860	-	0,6,6	-	-	-		
86	OHX	1	3888	-	0,6,6	-	-	-		
86	OHX	1	3976	-	0,6,6	-	-	-		
86	OHX	5	4222	-	0,6,6	-	-	-		
86	OHX	6	2091	-	0,6,6	-	-	-		
86	OHX	n1	201	-	0,6,6	-	-	-		
86	OHX	1	3913	-	0,6,6	-	-	-		
86	OHX	5	4116	-	0,6,6	-	-	-		
86	OHX	1	3898	-	0,6,6	-	-	-		
86	OHX	2	2087	-	0,6,6	-	-	-		
86	OHX	2	2137	-	0,6,6	-	-	-		
86	OHX	6	2201	-	0,6,6	-	-	-		
86	OHX	1	3896	-	0,6,6	-	-	-		
86	OHX	5	4037	-	0,6,6	-	-	-		
86	OHX	5	4095	-	0,6,6	-	-	-		
86	OHX	5	3970	-	0,6,6	-	-	-		
86	OHX	2	2054	-	0,6,6	-	-	-		
86	OHX	5	4150	-	0,6,6	-	-	-		
86	OHX	5	3995	-	0,6,6	-	-	-		
86	OHX	5	4239	-	0,6,6	-	-	-		
86	OHX	1	4082	-	0,6,6	-	-	-		
86	OHX	6	2100	-	0,6,6	-	-	-		
86	OHX	5	3966	-	0,6,6	-	-	-		
86	OHX	5	3955	-	0,6,6	-	-	-		
86	OHX	1	4140	-	0,6,6	-	-	-		
86	OHX	1	3959	-	0,6,6	-	-	-		
86	OHX	6	2118	-	0,6,6	-	-	-		
86	OHX	2	2133	-	0,6,6	-	-	-		
86	OHX	6	2150	-	0,6,6	-	-	-		
86	OHX	c8	202	-	0,6,6	-	-	-		
86	OHX	5	3960	-	0,6,6	-	-	-		
86	OHX	5	4213	-	0,6,6	-	-	-		
86	OHX	2	2028	-	0,6,6	-	-	-		
86	OHX	1	4124	-	0,6,6	-	-	-		
86	OHX	1	3915	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4176	-	0,6,6	-	-	-		
86	OHX	6	2108	-	0,6,6	-	-	-		
86	OHX	5	4105	-	0,6,6	-	-	-		
86	OHX	1	3909	-	0,6,6	-	-	-		
86	OHX	1	4130	-	0,6,6	-	-	-		
86	OHX	s4	301	-	0,6,6	-	-	-		
86	OHX	7	218	-	0,6,6	-	-	-		
86	OHX	1	3873	-	0,6,6	-	-	-		
86	OHX	1	3987	-	0,6,6	-	-	-		
86	OHX	6	2155	-	0,6,6	-	-	-		
86	OHX	5	4199	-	0,6,6	-	-	-		
86	OHX	5	4014	-	0,6,6	-	-	-		
86	OHX	D3	202	-	0,6,6	-	-	-		
86	OHX	1	4017	-	0,6,6	-	-	-		
86	OHX	6	2130	-	0,6,6	-	-	-		
86	OHX	1	4054	-	0,6,6	-	-	-		
86	OHX	1	4149	-	0,6,6	-	-	-		
86	OHX	6	2135	-	0,6,6	-	-	-		
86	OHX	l3	404	-	0,6,6	-	-	-		
86	OHX	2	2094	-	0,6,6	-	-	-		
86	OHX	2	2050	-	0,6,6	-	-	-		
86	OHX	6	2090	-	0,6,6	-	-	-		
86	OHX	5	4168	-	0,6,6	-	-	-		
86	OHX	1	4168	-	0,6,6	-	-	-		
86	OHX	5	3932	-	0,6,6	-	-	-		
86	OHX	6	2094	-	0,6,6	-	-	-		
86	OHX	5	4158	-	0,6,6	-	-	-		
86	OHX	7	223	-	0,6,6	-	-	-		
86	OHX	5	3985	-	0,6,6	-	-	-		
86	OHX	2	2121	-	0,6,6	-	-	-		
86	OHX	1	3866	-	0,6,6	-	-	-		
86	OHX	5	4173	-	0,6,6	-	-	-		
86	OHX	6	2147	-	0,6,6	-	-	-		
86	OHX	m4	202	-	0,6,6	-	-	-		
86	OHX	6	2165	-	0,6,6	-	-	-		
86	OHX	1	4201	-	0,6,6	-	-	-		
86	OHX	5	3927	-	0,6,6	-	-	-		
86	OHX	1	4131	-	0,6,6	-	-	-		
86	OHX	2	2167	-	0,6,6	-	-	-		
86	OHX	d9	102	-	0,6,6	-	-	-		
86	OHX	2	2131	-	0,6,6	-	-	-		
86	OHX	m0	302	-	0,6,6	-	-	-		
86	OHX	1	3897	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	2	2173	-	0,6,6	-	-	-		
86	OHX	6	2161	-	0,6,6	-	-	-		
86	OHX	5	4044	-	0,6,6	-	-	-		
86	OHX	6	2177	-	0,6,6	-	-	-		
86	OHX	2	2165	-	0,6,6	-	-	-		
86	OHX	5	4215	-	0,6,6	-	-	-		
86	OHX	6	2197	-	0,6,6	-	-	-		
86	OHX	6	2049	-	0,6,6	-	-	-		
86	OHX	6	2168	-	0,6,6	-	-	-		
86	OHX	1	4100	-	0,6,6	-	-	-		
86	OHX	5	4074	-	0,6,6	-	-	-		
86	OHX	2	2104	-	0,6,6	-	-	-		
86	OHX	8	222	-	0,6,6	-	-	-		
86	OHX	3	222	-	0,6,6	-	-	-		
86	OHX	1	4155	-	0,6,6	-	-	-		
86	OHX	6	2057	-	0,6,6	-	-	-		
86	OHX	1	4204	-	0,6,6	-	-	-		
86	OHX	6	2192	-	0,6,6	-	-	-		
86	OHX	5	4080	-	0,6,6	-	-	-		
86	OHX	5	3975	-	0,6,6	-	-	-		
86	OHX	5	4094	-	0,6,6	-	-	-		
86	OHX	3	218	-	0,6,6	-	-	-		
86	OHX	5	4125	-	0,6,6	-	-	-		
86	OHX	M7	206	-	0,6,6	-	-	-		
86	OHX	m7	207	-	0,6,6	-	-	-		
86	OHX	1	3964	-	0,6,6	-	-	-		
86	OHX	6	2048	-	0,6,6	-	-	-		
86	OHX	6	2098	-	0,6,6	-	-	-		
86	OHX	6	2143	-	0,6,6	-	-	-		
86	OHX	1	4104	-	0,6,6	-	-	-		
86	OHX	2	2118	-	0,6,6	-	-	-		
86	OHX	1	3948	-	0,6,6	-	-	-		
86	OHX	5	3948	-	0,6,6	-	-	-		
86	OHX	1	3973	-	0,6,6	-	-	-		
86	OHX	1	3899	-	0,6,6	-	-	-		
86	OHX	1	3960	-	0,6,6	-	-	-		
86	OHX	2	2092	-	0,6,6	-	-	-		
86	OHX	1	3977	-	0,6,6	-	-	-		
86	OHX	5	4054	-	0,6,6	-	-	-		
86	OHX	5	3988	-	0,6,6	-	-	-		
86	OHX	14	402	-	0,6,6	-	-	-		
86	OHX	1	3895	-	0,6,6	-	-	-		
86	OHX	1	4195	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
86	OHX	6	2163	-	0,6,6	-	-	-		
86	OHX	1	4073	-	0,6,6	-	-	-		
86	OHX	5	4049	-	0,6,6	-	-	-		
86	OHX	1	4066	-	0,6,6	-	-	-		
86	OHX	1	4121	-	0,6,6	-	-	-		
86	OHX	5	3958	-	0,6,6	-	-	-		
86	OHX	1	3958	-	0,6,6	-	-	-		
86	OHX	5	3961	-	0,6,6	-	-	-		
86	OHX	1	3967	-	0,6,6	-	-	-		
86	OHX	5	3936	-	0,6,6	-	-	-		
86	OHX	2	2130	-	0,6,6	-	-	-		
86	OHX	5	4002	-	0,6,6	-	-	-		
86	OHX	1	3861	-	0,6,6	-	-	-		
86	OHX	5	4143	-	0,6,6	-	-	-		
86	OHX	2	2140	-	0,6,6	-	-	-		
86	OHX	8	224	-	0,6,6	-	-	-		
86	OHX	6	2105	-	0,6,6	-	-	-		
86	OHX	1	3871	-	0,6,6	-	-	-		
86	OHX	6	2113	-	0,6,6	-	-	-		
86	OHX	1	3865	-	0,6,6	-	-	-		
86	OHX	1	3889	-	0,6,6	-	-	-		
86	OHX	5	3931	-	0,6,6	-	-	-		
86	OHX	1	3934	-	0,6,6	-	-	-		
86	OHX	c5	201	-	0,6,6	-	-	-		
86	OHX	5	3934	-	0,6,6	-	-	-		
86	OHX	1	4040	-	0,6,6	-	-	-		
86	OHX	1	4202	-	0,6,6	-	-	-		
86	OHX	5	4120	-	0,6,6	-	-	-		
86	OHX	1	4103	-	0,6,6	-	-	-		
86	OHX	5	4035	-	0,6,6	-	-	-		
86	OHX	1	4079	-	0,6,6	-	-	-		
86	OHX	1	4127	-	0,6,6	-	-	-		
86	OHX	5	4219	-	0,6,6	-	-	-		
86	OHX	5	4166	-	0,6,6	-	-	-		
86	OHX	2	2064	-	0,6,6	-	-	-		
86	OHX	l3	405	-	0,6,6	-	-	-		
86	OHX	1	4172	-	0,6,6	-	-	-		
86	OHX	5	3992	-	0,6,6	-	-	-		
86	OHX	5	4204	-	0,6,6	-	-	-		
86	OHX	6	2185	-	0,6,6	-	-	-		
86	OHX	5	4141	-	0,6,6	-	-	-		
86	OHX	6	2072	-	0,6,6	-	-	-		
86	OHX	5	4101	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4132	-	0,6,6	-	-	-		
86	OHX	7	224	-	0,6,6	-	-	-		
86	OHX	5	4191	-	0,6,6	-	-	-		
86	OHX	6	2188	-	0,6,6	-	-	-		
86	OHX	5	3935	-	0,6,6	-	-	-		
86	OHX	1	4209	-	0,6,6	-	-	-		
86	OHX	1	4207	-	0,6,6	-	-	-		
86	OHX	5	4126	-	0,6,6	-	-	-		
86	OHX	5	4059	-	0,6,6	-	-	-		
86	OHX	2	2163	-	0,6,6	-	-	-		
86	OHX	1	4101	-	0,6,6	-	-	-		
86	OHX	5	3956	-	0,6,6	-	-	-		
86	OHX	1	4110	-	0,6,6	-	-	-		
86	OHX	1	3916	-	0,6,6	-	-	-		
86	OHX	1	4099	-	0,6,6	-	-	-		
86	OHX	5	4076	-	0,6,6	-	-	-		
86	OHX	5	3990	-	0,6,6	-	-	-		
86	OHX	6	2133	-	0,6,6	-	-	-		
86	OHX	5	4036	-	0,6,6	-	-	-		
86	OHX	1	3875	-	0,6,6	-	-	-		
86	OHX	5	4029	-	0,6,6	-	-	-		
86	OHX	5	4225	-	0,6,6	-	-	-		
86	OHX	5	3967	-	0,6,6	-	-	-		
86	OHX	1	3880	-	0,6,6	-	-	-		
86	OHX	2	2067	-	0,6,6	-	-	-		
86	OHX	2	2079	-	0,6,6	-	-	-		
86	OHX	2	2136	-	0,6,6	-	-	-		
86	OHX	2	2056	-	0,6,6	-	-	-		
86	OHX	3	220	-	0,6,6	-	-	-		
86	OHX	2	2062	-	0,6,6	-	-	-		
86	OHX	1	3955	-	0,6,6	-	-	-		
86	OHX	5	3923	-	0,6,6	-	-	-		
86	OHX	6	2172	-	0,6,6	-	-	-		
86	OHX	5	4234	-	0,6,6	-	-	-		
86	OHX	5	4098	-	0,6,6	-	-	-		
86	OHX	5	3924	-	0,6,6	-	-	-		
86	OHX	5	4103	-	0,6,6	-	-	-		
86	OHX	2	2164	-	0,6,6	-	-	-		
86	OHX	5	4209	-	0,6,6	-	-	-		
86	OHX	5	4181	-	0,6,6	-	-	-		
86	OHX	5	4243	-	0,6,6	-	-	-		
86	OHX	5	3952	-	0,6,6	-	-	-		
86	OHX	2	2134	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4179	-	0,6,6	-	-	-		
86	OHX	2	2072	-	0,6,6	-	-	-		
86	OHX	1	4128	-	0,6,6	-	-	-		
86	OHX	1	4179	-	0,6,6	-	-	-		
86	OHX	2	2156	-	0,6,6	-	-	-		
86	OHX	6	2176	-	0,6,6	-	-	-		
86	OHX	5	3910	-	0,6,6	-	-	-		
86	OHX	1	4047	-	0,6,6	-	-	-		
86	OHX	5	4047	-	0,6,6	-	-	-		
86	OHX	1	3931	-	0,6,6	-	-	-		
86	OHX	5	4107	-	0,6,6	-	-	-		
86	OHX	6	2121	-	0,6,6	-	-	-		
86	OHX	5	4198	-	0,6,6	-	-	-		
86	OHX	6	2132	-	0,6,6	-	-	-		
86	OHX	6	2066	-	0,6,6	-	-	-		
86	OHX	5	3981	-	0,6,6	-	-	-		
86	OHX	5	4001	-	0,6,6	-	-	-		
86	OHX	S8	302	-	0,6,6	-	-	-		
86	OHX	5	4032	-	0,6,6	-	-	-		
86	OHX	1	4032	-	0,6,6	-	-	-		
86	OHX	L3	405	-	0,6,6	-	-	-		
86	OHX	1	4192	-	0,6,6	-	-	-		
86	OHX	5	3913	-	0,6,6	-	-	-		
86	OHX	1	4158	-	0,6,6	-	-	-		
86	OHX	5	4210	-	0,6,6	-	-	-		
86	OHX	1	4210	-	0,6,6	-	-	-		
86	OHX	1	3876	-	0,6,6	-	-	-		
86	OHX	8	215	-	0,6,6	-	-	-		
86	OHX	1	3946	-	0,6,6	-	-	-		
86	OHX	5	4129	-	0,6,6	-	-	-		
86	OHX	6	2175	-	0,6,6	-	-	-		
86	OHX	5	4068	-	0,6,6	-	-	-		
86	OHX	2	2150	-	0,6,6	-	-	-		
86	OHX	6	2104	-	0,6,6	-	-	-		
86	OHX	1	3981	-	0,6,6	-	-	-		
86	OHX	2	2139	-	0,6,6	-	-	-		
86	OHX	5	4057	-	0,6,6	-	-	-		
86	OHX	1	4057	-	0,6,6	-	-	-		
86	OHX	1	3885	-	0,6,6	-	-	-		
86	OHX	5	4082	-	0,6,6	-	-	-		
86	OHX	1	4147	-	0,6,6	-	-	-		
86	OHX	5	4180	-	0,6,6	-	-	-		
86	OHX	5	4188	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3991	-	0,6,6	-	-	-		
86	OHX	5	4200	-	0,6,6	-	-	-		
86	OHX	2	2172	-	0,6,6	-	-	-		
86	OHX	1	4205	-	0,6,6	-	-	-		
86	OHX	1	4038	-	0,6,6	-	-	-		
86	OHX	5	4174	-	0,6,6	-	-	-		
86	OHX	2	2034	-	0,6,6	-	-	-		
86	OHX	1	3986	-	0,6,6	-	-	-		
86	OHX	5	3980	-	0,6,6	-	-	-		
86	OHX	6	2164	-	0,6,6	-	-	-		
86	OHX	2	2046	-	0,6,6	-	-	-		
86	OHX	1	4068	-	0,6,6	-	-	-		
86	OHX	8	217	-	0,6,6	-	-	-		
86	OHX	1	4182	-	0,6,6	-	-	-		
86	OHX	1	3992	-	0,6,6	-	-	-		
86	OHX	1	4163	-	0,6,6	-	-	-		
86	OHX	1	4148	-	0,6,6	-	-	-		
86	OHX	6	2082	-	0,6,6	-	-	-		
86	OHX	6	2122	-	0,6,6	-	-	-		
86	OHX	8	216	-	0,6,6	-	-	-		
86	OHX	1	3975	-	0,6,6	-	-	-		
86	OHX	2	2147	-	0,6,6	-	-	-		
86	OHX	5	4033	-	0,6,6	-	-	-		
86	OHX	1	3966	-	0,6,6	-	-	-		
86	OHX	6	2078	-	0,6,6	-	-	-		
86	OHX	5	4097	-	0,6,6	-	-	-		
86	OHX	O1	202	-	0,6,6	-	-	-		
86	OHX	1	3919	-	0,6,6	-	-	-		
86	OHX	5	4031	-	0,6,6	-	-	-		
86	OHX	5	4236	-	0,6,6	-	-	-		
86	OHX	4	232	-	0,6,6	-	-	-		
86	OHX	1	3924	-	0,6,6	-	-	-		
86	OHX	6	2093	-	0,6,6	-	-	-		
86	OHX	1	4126	-	0,6,6	-	-	-		
86	OHX	5	4238	-	0,6,6	-	-	-		
86	OHX	2	2060	-	0,6,6	-	-	-		
86	OHX	5	4162	-	0,6,6	-	-	-		
86	OHX	1	4162	-	0,6,6	-	-	-		
86	OHX	1	3965	-	0,6,6	-	-	-		
86	OHX	sR	401	-	0,6,6	-	-	-		
86	OHX	1	4094	-	0,6,6	-	-	-		
86	OHX	6	2174	-	0,6,6	-	-	-		
86	OHX	5	4041	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4041	-	0,6,6	-	-	-		
86	OHX	1	3994	-	0,6,6	-	-	-		
86	OHX	6	2062	-	0,6,6	-	-	-		
86	OHX	5	4131	-	0,6,6	-	-	-		
86	OHX	5	4214	-	0,6,6	-	-	-		
86	OHX	1	4010	-	0,6,6	-	-	-		
86	OHX	1	3910	-	0,6,6	-	-	-		
86	OHX	2	2175	-	0,6,6	-	-	-		
86	OHX	1	4199	-	0,6,6	-	-	-		
86	OHX	6	2180	-	0,6,6	-	-	-		
86	OHX	6	2148	-	0,6,6	-	-	-		
86	OHX	1	4021	-	0,6,6	-	-	-		
86	OHX	5	4088	-	0,6,6	-	-	-		
86	OHX	5	3892	-	0,6,6	-	-	-		
86	OHX	1	4091	-	0,6,6	-	-	-		
86	OHX	6	2204	-	0,6,6	-	-	-		
86	OHX	2	2158	-	0,6,6	-	-	-		
86	OHX	6	2137	-	0,6,6	-	-	-		
86	OHX	5	4169	-	0,6,6	-	-	-		
86	OHX	5	3921	-	0,6,6	-	-	-		
86	OHX	5	4245	-	0,6,6	-	-	-		
86	OHX	5	4155	-	0,6,6	-	-	-		
86	OHX	1	3862	-	0,6,6	-	-	-		
86	OHX	6	2124	-	0,6,6	-	-	-		
86	OHX	5	4228	-	0,6,6	-	-	-		
86	OHX	2	2048	-	0,6,6	-	-	-		
86	OHX	2	2125	-	0,6,6	-	-	-		
86	OHX	5	4090	-	0,6,6	-	-	-		
86	OHX	1	3954	-	0,6,6	-	-	-		
86	OHX	1	3881	-	0,6,6	-	-	-		
86	OHX	1	4002	-	0,6,6	-	-	-		
86	OHX	1	3879	-	0,6,6	-	-	-		
86	OHX	6	2047	-	0,6,6	-	-	-		
86	OHX	1	3972	-	0,6,6	-	-	-		
86	OHX	5	3982	-	0,6,6	-	-	-		
86	OHX	s9	201	-	0,6,6	-	-	-		
86	OHX	2	2078	-	0,6,6	-	-	-		
86	OHX	5	3903	-	0,6,6	-	-	-		
86	OHX	5	3930	-	0,6,6	-	-	-		
86	OHX	1	4030	-	0,6,6	-	-	-		
86	OHX	6	2099	-	0,6,6	-	-	-		
86	OHX	1	4137	-	0,6,6	-	-	-		
86	OHX	5	4137	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3941	-	0,6,6	-	-	-		
86	OHX	6	2125	-	0,6,6	-	-	-		
86	OHX	2	2052	-	0,6,6	-	-	-		
86	OHX	5	4161	-	0,6,6	-	-	-		
86	OHX	5	4146	-	0,6,6	-	-	-		
86	OHX	2	2077	-	0,6,6	-	-	-		
86	OHX	1	4146	-	0,6,6	-	-	-		
86	OHX	2	2075	-	0,6,6	-	-	-		
86	OHX	1	4119	-	0,6,6	-	-	-		
86	OHX	2	2081	-	0,6,6	-	-	-		
86	OHX	2	2155	-	0,6,6	-	-	-		
86	OHX	1	3914	-	0,6,6	-	-	-		
86	OHX	2	2127	-	0,6,6	-	-	-		
86	OHX	1	4125	-	0,6,6	-	-	-		
86	OHX	4	224	-	0,6,6	-	-	-		
86	OHX	2	2053	-	0,6,6	-	-	-		
86	OHX	6	2178	-	0,6,6	-	-	-		
86	OHX	5	4005	-	0,6,6	-	-	-		
86	OHX	2	2063	-	0,6,6	-	-	-		
86	OHX	1	3990	-	0,6,6	-	-	-		
86	OHX	6	2053	-	0,6,6	-	-	-		
86	OHX	1	4029	-	0,6,6	-	-	-		
86	OHX	1	3882	-	0,6,6	-	-	-		
86	OHX	1	4174	-	0,6,6	-	-	-		
86	OHX	5	4004	-	0,6,6	-	-	-		
86	OHX	5	4133	-	0,6,6	-	-	-		
86	OHX	5	3898	-	0,6,6	-	-	-		
86	OHX	6	2158	-	0,6,6	-	-	-		
86	OHX	5	4208	-	0,6,6	-	-	-		
86	OHX	1	4144	-	0,6,6	-	-	-		
86	OHX	1	3883	-	0,6,6	-	-	-		
86	OHX	1	4070	-	0,6,6	-	-	-		
86	OHX	6	2156	-	0,6,6	-	-	-		
86	OHX	5	3962	-	0,6,6	-	-	-		
86	OHX	5	4030	-	0,6,6	-	-	-		
86	OHX	5	3964	-	0,6,6	-	-	-		
86	OHX	6	2063	-	0,6,6	-	-	-		
86	OHX	6	2086	-	0,6,6	-	-	-		
86	OHX	1	4049	-	0,6,6	-	-	-		
86	OHX	5	3925	-	0,6,6	-	-	-		
86	OHX	8	219	-	0,6,6	-	-	-		
86	OHX	2	2157	-	0,6,6	-	-	-		
86	OHX	5	3959	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3973	-	0,6,6	-	-	-		
86	OHX	5	3954	-	0,6,6	-	-	-		
86	OHX	5	4108	-	0,6,6	-	-	-		
86	OHX	5	4202	-	0,6,6	-	-	-		
86	OHX	1	4206	-	0,6,6	-	-	-		
86	OHX	6	2069	-	0,6,6	-	-	-		
86	OHX	5	4124	-	0,6,6	-	-	-		
86	OHX	1	4003	-	0,6,6	-	-	-		
86	OHX	5	3944	-	0,6,6	-	-	-		
86	OHX	1	3944	-	0,6,6	-	-	-		
86	OHX	6	2167	-	0,6,6	-	-	-		
86	OHX	5	3895	-	0,6,6	-	-	-		
86	OHX	1	3921	-	0,6,6	-	-	-		
86	OHX	1	3974	-	0,6,6	-	-	-		
86	OHX	1	4013	-	0,6,6	-	-	-		
86	OHX	2	2084	-	0,6,6	-	-	-		
86	OHX	1	4120	-	0,6,6	-	-	-		
86	OHX	1	4046	-	0,6,6	-	-	-		
86	OHX	1	4115	-	0,6,6	-	-	-		
86	OHX	5	4167	-	0,6,6	-	-	-		
86	OHX	6	2145	-	0,6,6	-	-	-		
86	OHX	1	4008	-	0,6,6	-	-	-		
86	OHX	1	3900	-	0,6,6	-	-	-		
86	OHX	5	4017	-	0,6,6	-	-	-		
86	OHX	2	2151	-	0,6,6	-	-	-		
86	OHX	6	2191	-	0,6,6	-	-	-		
86	OHX	L3	406	-	0,6,6	-	-	-		
86	OHX	1	4067	-	0,6,6	-	-	-		
86	OHX	5	4062	-	0,6,6	-	-	-		
86	OHX	5	4078	-	0,6,6	-	-	-		
86	OHX	1	4062	-	0,6,6	-	-	-		
86	OHX	7	219	-	0,6,6	-	-	-		
86	OHX	1	4117	-	0,6,6	-	-	-		
86	OHX	3	223	-	0,6,6	-	-	-		
86	OHX	6	2123	-	0,6,6	-	-	-		
86	OHX	2	2129	-	0,6,6	-	-	-		
86	OHX	q2	502	-	0,6,6	-	-	-		
86	OHX	1	3941	-	0,6,6	-	-	-		
86	OHX	1	4071	-	0,6,6	-	-	-		
86	OHX	6	2190	-	0,6,6	-	-	-		
86	OHX	5	3968	-	0,6,6	-	-	-		
86	OHX	5	4079	-	0,6,6	-	-	-		
86	OHX	3	221	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4201	-	0,6,6	-	-	-		
86	OHX	5	3986	-	0,6,6	-	-	-		
86	OHX	6	2140	-	0,6,6	-	-	-		
86	OHX	1	4183	-	0,6,6	-	-	-		
86	OHX	4	230	-	0,6,6	-	-	-		
86	OHX	1	3928	-	0,6,6	-	-	-		
86	OHX	2	2178	-	0,6,6	-	-	-		
86	OHX	7	228	-	0,6,6	-	-	-		
86	OHX	5	4083	-	0,6,6	-	-	-		
86	OHX	1	4178	-	0,6,6	-	-	-		
86	OHX	1	4083	-	0,6,6	-	-	-		
86	OHX	1	4165	-	0,6,6	-	-	-		
86	OHX	6	2200	-	0,6,6	-	-	-		
86	OHX	6	2127	-	0,6,6	-	-	-		
86	OHX	5	3937	-	0,6,6	-	-	-		
86	OHX	6	2193	-	0,6,6	-	-	-		
86	OHX	2	2043	-	0,6,6	-	-	-		
86	OHX	5	4205	-	0,6,6	-	-	-		
86	OHX	2	2091	-	0,6,6	-	-	-		
86	OHX	1	4161	-	0,6,6	-	-	-		
86	OHX	3	225	-	0,6,6	-	-	-		
86	OHX	5	4048	-	0,6,6	-	-	-		
86	OHX	5	4055	-	0,6,6	-	-	-		
86	OHX	1	4133	-	0,6,6	-	-	-		
86	OHX	6	2144	-	0,6,6	-	-	-		
88	BLS	5	4248	-	30,31,31	1.35	3 (10%)	30,43,43	0.90	1 (3%)
86	OHX	5	4065	-	0,6,6	-	-	-		
86	OHX	5	4207	-	0,6,6	-	-	-		
86	OHX	2	2159	-	0,6,6	-	-	-		
86	OHX	6	2074	-	0,6,6	-	-	-		
86	OHX	1	4208	-	0,6,6	-	-	-		
86	OHX	5	3996	-	0,6,6	-	-	-		
86	OHX	5	4042	-	0,6,6	-	-	-		
86	OHX	5	4003	-	0,6,6	-	-	-		
86	OHX	6	2159	-	0,6,6	-	-	-		
86	OHX	1	3859	-	0,6,6	-	-	-		
86	OHX	1	3936	-	0,6,6	-	-	-		
86	OHX	1	4170	-	0,6,6	-	-	-		
86	OHX	5	3999	-	0,6,6	-	-	-		
86	OHX	2	2103	-	0,6,6	-	-	-		
86	OHX	2	2142	-	0,6,6	-	-	-		
86	OHX	L4	404	-	0,6,6	-	-	-		
86	OHX	1	4020	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3984	-	0,6,6	-	-	-		
86	OHX	4	228	-	0,6,6	-	-	-		
86	OHX	6	2071	-	0,6,6	-	-	-		
86	OHX	1	3891	-	0,6,6	-	-	-		
86	OHX	4	238	-	0,6,6	-	-	-		
86	OHX	5	4058	-	0,6,6	-	-	-		
86	OHX	2	2169	-	0,6,6	-	-	-		
86	OHX	1	4108	-	0,6,6	-	-	-		
86	OHX	1	4077	-	0,6,6	-	-	-		
86	OHX	1	3978	-	0,6,6	-	-	-		
86	OHX	6	2054	-	0,6,6	-	-	-		
86	OHX	5	4195	-	0,6,6	-	-	-		
86	OHX	1	4198	-	0,6,6	-	-	-		
86	OHX	3	224	-	0,6,6	-	-	-		
86	OHX	5	4073	-	0,6,6	-	-	-		
86	OHX	5	4147	-	0,6,6	-	-	-		
86	OHX	1	3999	-	0,6,6	-	-	-		
86	OHX	2	2032	-	0,6,6	-	-	-		
86	OHX	2	2058	-	0,6,6	-	-	-		
86	OHX	1	4167	-	0,6,6	-	-	-		
86	OHX	6	2092	-	0,6,6	-	-	-		
86	OHX	1	3892	-	0,6,6	-	-	-		
86	OHX	6	2058	-	0,6,6	-	-	-		
86	OHX	5	3953	-	0,6,6	-	-	-		
86	OHX	1	3953	-	0,6,6	-	-	-		
86	OHX	1	3995	-	0,6,6	-	-	-		
86	OHX	5	3928	-	0,6,6	-	-	-		
86	OHX	1	4028	-	0,6,6	-	-	-		
86	OHX	D9	102	-	0,6,6	-	-	-		
86	OHX	1	3943	-	0,6,6	-	-	-		
86	OHX	1	3908	-	0,6,6	-	-	-		
86	OHX	5	4237	-	0,6,6	-	-	-		
86	OHX	2	2114	-	0,6,6	-	-	-		
86	OHX	5	4157	-	0,6,6	-	-	-		
86	OHX	1	4189	-	0,6,6	-	-	-		
86	OHX	1	4157	-	0,6,6	-	-	-		
86	OHX	5	3983	-	0,6,6	-	-	-		
86	OHX	5	4212	-	0,6,6	-	-	-		
86	OHX	1	4024	-	0,6,6	-	-	-		
86	OHX	2	2138	-	0,6,6	-	-	-		
86	OHX	1	4122	-	0,6,6	-	-	-		
86	OHX	1	3884	-	0,6,6	-	-	-		
86	OHX	2	2074	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3971	-	0,6,6	-	-	-		
86	OHX	6	2141	-	0,6,6	-	-	-		
86	OHX	1	4000	-	0,6,6	-	-	-		
86	OHX	5	4070	-	0,6,6	-	-	-		
86	OHX	5	4172	-	0,6,6	-	-	-		
86	OHX	6	2134	-	0,6,6	-	-	-		
86	OHX	1	3867	-	0,6,6	-	-	-		
86	OHX	1	4134	-	0,6,6	-	-	-		
86	OHX	6	2101	-	0,6,6	-	-	-		
86	OHX	2	2044	-	0,6,6	-	-	-		
86	OHX	5	3940	-	0,6,6	-	-	-		
86	OHX	1	4190	-	0,6,6	-	-	-		
86	OHX	1	3949	-	0,6,6	-	-	-		
86	OHX	M0	304	-	0,6,6	-	-	-		
86	OHX	5	4106	-	0,6,6	-	-	-		
86	OHX	5	4154	-	0,6,6	-	-	-		
86	OHX	5	4220	-	0,6,6	-	-	-		
86	OHX	5	4043	-	0,6,6	-	-	-		
86	OHX	1	3969	-	0,6,6	-	-	-		
86	OHX	5	4114	-	0,6,6	-	-	-		
86	OHX	5	4136	-	0,6,6	-	-	-		
86	OHX	1	4114	-	0,6,6	-	-	-		
86	OHX	5	3904	-	0,6,6	-	-	-		
86	OHX	2	2132	-	0,6,6	-	-	-		
86	OHX	1	4055	-	0,6,6	-	-	-		
86	OHX	5	4145	-	0,6,6	-	-	-		
86	OHX	1	4145	-	0,6,6	-	-	-		
86	OHX	5	4177	-	0,6,6	-	-	-		
86	OHX	2	2061	-	0,6,6	-	-	-		
86	OHX	1	3942	-	0,6,6	-	-	-		
86	OHX	5	4007	-	0,6,6	-	-	-		
86	OHX	s8	302	-	0,6,6	-	-	-		
86	OHX	1	4007	-	0,6,6	-	-	-		
86	OHX	5	4021	-	0,6,6	-	-	-		
86	OHX	5	3926	-	0,6,6	-	-	-		
86	OHX	5	4110	-	0,6,6	-	-	-		
86	OHX	5	3916	-	0,6,6	-	-	-		
86	OHX	1	4016	-	0,6,6	-	-	-		
86	OHX	5	4099	-	0,6,6	-	-	-		
86	OHX	1	3940	-	0,6,6	-	-	-		
86	OHX	5	3894	-	0,6,6	-	-	-		
86	OHX	5	3972	-	0,6,6	-	-	-		
86	OHX	5	4185	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3870	-	0,6,6	-	-	-		
86	OHX	5	4028	-	0,6,6	-	-	-		
86	OHX	2	2161	-	0,6,6	-	-	-		
86	OHX	1	4061	-	0,6,6	-	-	-		
86	OHX	1	3926	-	0,6,6	-	-	-		
86	OHX	5	4052	-	0,6,6	-	-	-		
86	OHX	1	3950	-	0,6,6	-	-	-		
86	OHX	6	2085	-	0,6,6	-	-	-		
86	OHX	2	2116	-	0,6,6	-	-	-		
86	OHX	5	4189	-	0,6,6	-	-	-		
86	OHX	5	4086	-	0,6,6	-	-	-		
86	OHX	2	2141	-	0,6,6	-	-	-		
86	OHX	1	4086	-	0,6,6	-	-	-		
86	OHX	5	3987	-	0,6,6	-	-	-		
86	OHX	5	4224	-	0,6,6	-	-	-		
86	OHX	1	4088	-	0,6,6	-	-	-		
86	OHX	1	4194	-	0,6,6	-	-	-		
86	OHX	2	2153	-	0,6,6	-	-	-		
86	OHX	5	3971	-	0,6,6	-	-	-		
86	OHX	5	4138	-	0,6,6	-	-	-		
86	OHX	1	4058	-	0,6,6	-	-	-		
86	OHX	1	4095	-	0,6,6	-	-	-		
86	OHX	5	4128	-	0,6,6	-	-	-		
86	OHX	1	3945	-	0,6,6	-	-	-		
86	OHX	5	4241	-	0,6,6	-	-	-		
86	OHX	5	4006	-	0,6,6	-	-	-		
86	OHX	6	2055	-	0,6,6	-	-	-		
86	OHX	5	3993	-	0,6,6	-	-	-		
86	OHX	5	4149	-	0,6,6	-	-	-		
86	OHX	2	2076	-	0,6,6	-	-	-		
86	OHX	5	4246	-	0,6,6	-	-	-		
86	OHX	5	4216	-	0,6,6	-	-	-		
86	OHX	2	2055	-	0,6,6	-	-	-		
86	OHX	8	229	-	0,6,6	-	-	-		
86	OHX	1	4090	-	0,6,6	-	-	-		
86	OHX	6	2184	-	0,6,6	-	-	-		
86	OHX	5	4022	-	0,6,6	-	-	-		
86	OHX	1	4081	-	0,6,6	-	-	-		
86	OHX	5	4140	-	0,6,6	-	-	-		
86	OHX	6	2119	-	0,6,6	-	-	-		
86	OHX	6	2186	-	0,6,6	-	-	-		
86	OHX	1	3937	-	0,6,6	-	-	-		
86	OHX	1	4026	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2203	-	0,6,6	-	-	-		
86	OHX	6	2151	-	0,6,6	-	-	-		
86	OHX	8	220	-	0,6,6	-	-	-		
86	OHX	5	3909	-	0,6,6	-	-	-		
86	OHX	4	234	-	0,6,6	-	-	-		
86	OHX	6	2142	-	0,6,6	-	-	-		
86	OHX	4	231	-	0,6,6	-	-	-		
86	OHX	6	2199	-	0,6,6	-	-	-		
86	OHX	2	2102	-	0,6,6	-	-	-		
86	OHX	1	4078	-	0,6,6	-	-	-		
86	OHX	5	4227	-	0,6,6	-	-	-		
86	OHX	6	2149	-	0,6,6	-	-	-		
86	OHX	8	226	-	0,6,6	-	-	-		
86	OHX	6	2102	-	0,6,6	-	-	-		
86	OHX	5	3911	-	0,6,6	-	-	-		
86	OHX	5	3991	-	0,6,6	-	-	-		
86	OHX	1	3911	-	0,6,6	-	-	-		
86	OHX	m0	303	-	0,6,6	-	-	-		
86	OHX	1	3983	-	0,6,6	-	-	-		
86	OHX	6	2126	-	0,6,6	-	-	-		
86	OHX	5	4109	-	0,6,6	-	-	-		
86	OHX	1	4084	-	0,6,6	-	-	-		
86	OHX	2	2111	-	0,6,6	-	-	-		
86	OHX	2	2112	-	0,6,6	-	-	-		
86	OHX	6	2109	-	0,6,6	-	-	-		
86	OHX	7	220	-	0,6,6	-	-	-		
86	OHX	2	2041	-	0,6,6	-	-	-		
86	OHX	5	3918	-	0,6,6	-	-	-		
86	OHX	6	2169	-	0,6,6	-	-	-		
86	OHX	1	4164	-	0,6,6	-	-	-		
86	OHX	5	4152	-	0,6,6	-	-	-		
86	OHX	2	2042	-	0,6,6	-	-	-		
86	OHX	1	4042	-	0,6,6	-	-	-		
86	OHX	8	221	-	0,6,6	-	-	-		
86	OHX	1	3886	-	0,6,6	-	-	-		
86	OHX	1	3901	-	0,6,6	-	-	-		
86	OHX	7	222	-	0,6,6	-	-	-		
86	OHX	6	2187	-	0,6,6	-	-	-		
86	OHX	1	3952	-	0,6,6	-	-	-		
86	OHX	1	3877	-	0,6,6	-	-	-		
86	OHX	d4	201	-	0,6,6	-	-	-		
86	OHX	2	2120	-	0,6,6	-	-	-		
86	OHX	2	2065	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3919	-	0,6,6	-	-	-		
86	OHX	5	4025	-	0,6,6	-	-	-		
86	OHX	1	3907	-	0,6,6	-	-	-		
86	OHX	2	2119	-	0,6,6	-	-	-		
86	OHX	5	3974	-	0,6,6	-	-	-		
86	OHX	1	4197	-	0,6,6	-	-	-		
86	OHX	5	4235	-	0,6,6	-	-	-		
86	OHX	5	3965	-	0,6,6	-	-	-		
86	OHX	5	4009	-	0,6,6	-	-	-		
86	OHX	1	3857	-	0,6,6	-	-	-		
86	OHX	n3	202	-	0,6,6	-	-	-		
86	OHX	5	4010	-	0,6,6	-	-	-		
86	OHX	5	3946	-	0,6,6	-	-	-		
86	OHX	5	4165	-	0,6,6	-	-	-		
86	OHX	5	4148	-	0,6,6	-	-	-		
86	OHX	6	2202	-	0,6,6	-	-	-		
86	OHX	2	2069	-	0,6,6	-	-	-		
86	OHX	6	2060	-	0,6,6	-	-	-		
86	OHX	4	236	-	0,6,6	-	-	-		
86	OHX	2	2051	-	0,6,6	-	-	-		
86	OHX	5	3989	-	0,6,6	-	-	-		
86	OHX	5	4091	-	0,6,6	-	-	-		
86	OHX	1	3989	-	0,6,6	-	-	-		
86	OHX	1	4009	-	0,6,6	-	-	-		
86	OHX	1	3932	-	0,6,6	-	-	-		
86	OHX	5	4000	-	0,6,6	-	-	-		
86	OHX	2	2126	-	0,6,6	-	-	-		
86	OHX	5	4229	-	0,6,6	-	-	-		
86	OHX	1	4064	-	0,6,6	-	-	-		
86	OHX	5	4134	-	0,6,6	-	-	-		
86	OHX	4	225	-	0,6,6	-	-	-		
86	OHX	2	2107	-	0,6,6	-	-	-		
86	OHX	2	2040	-	0,6,6	-	-	-		
86	OHX	1	3968	-	0,6,6	-	-	-		
86	OHX	1	4175	-	0,6,6	-	-	-		
86	OHX	6	2097	-	0,6,6	-	-	-		
86	OHX	5	4084	-	0,6,6	-	-	-		
86	OHX	5	4192	-	0,6,6	-	-	-		
86	OHX	4	233	-	0,6,6	-	-	-		
86	OHX	6	2166	-	0,6,6	-	-	-		
86	OHX	5	3969	-	0,6,6	-	-	-		
86	OHX	C8	201	-	0,6,6	-	-	-		
86	OHX	5	3994	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4211	-	0,6,6	-	-	-		
86	OHX	1	4027	-	0,6,6	-	-	-		
86	OHX	6	2061	-	0,6,6	-	-	-		
86	OHX	6	2077	-	0,6,6	-	-	-		
86	OHX	7	226	-	0,6,6	-	-	-		
86	OHX	1	4112	-	0,6,6	-	-	-		
86	OHX	1	4106	-	0,6,6	-	-	-		
86	OHX	5	4118	-	0,6,6	-	-	-		
86	OHX	c3	201	-	0,6,6	-	-	-		
86	OHX	1	4043	-	0,6,6	-	-	-		
86	OHX	1	3912	-	0,6,6	-	-	-		
86	OHX	5	3912	-	0,6,6	-	-	-		
86	OHX	5	4160	-	0,6,6	-	-	-		
86	OHX	1	3878	-	0,6,6	-	-	-		
86	OHX	2	2152	-	0,6,6	-	-	-		
86	OHX	5	3906	-	0,6,6	-	-	-		
86	OHX	1	4136	-	0,6,6	-	-	-		
86	OHX	1	3998	-	0,6,6	-	-	-		
86	OHX	2	2162	-	0,6,6	-	-	-		
86	OHX	2	2066	-	0,6,6	-	-	-		
86	OHX	2	2036	-	0,6,6	-	-	-		
86	OHX	6	2152	-	0,6,6	-	-	-		
86	OHX	5	3922	-	0,6,6	-	-	-		
86	OHX	5	4183	-	0,6,6	-	-	-		
86	OHX	1	4159	-	0,6,6	-	-	-		
86	OHX	6	2157	-	0,6,6	-	-	-		
86	OHX	5	4019	-	0,6,6	-	-	-		
86	OHX	5	4020	-	0,6,6	-	-	-		
86	OHX	1	3938	-	0,6,6	-	-	-		
86	OHX	1	4171	-	0,6,6	-	-	-		
86	OHX	6	2056	-	0,6,6	-	-	-		
86	OHX	5	3914	-	0,6,6	-	-	-		
86	OHX	1	4039	-	0,6,6	-	-	-		
86	OHX	5	4178	-	0,6,6	-	-	-		
86	OHX	5	3893	-	0,6,6	-	-	-		
86	OHX	2	2070	-	0,6,6	-	-	-		
86	OHX	2	2123	-	0,6,6	-	-	-		
86	OHX	1	4153	-	0,6,6	-	-	-		
86	OHX	6	2106	-	0,6,6	-	-	-		
86	OHX	6	2112	-	0,6,6	-	-	-		
86	OHX	5	3943	-	0,6,6	-	-	-		
86	OHX	5	4193	-	0,6,6	-	-	-		
86	OHX	1	4193	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4116	-	0,6,6	-	-	-		
86	OHX	3	219	-	0,6,6	-	-	-		
86	OHX	1	4185	-	0,6,6	-	-	-		
86	OHX	5	4233	-	0,6,6	-	-	-		
86	OHX	1	4087	-	0,6,6	-	-	-		
86	OHX	1	3887	-	0,6,6	-	-	-		
86	OHX	1	3970	-	0,6,6	-	-	-		
86	OHX	8	223	-	0,6,6	-	-	-		
86	OHX	2	2097	-	0,6,6	-	-	-		
86	OHX	1	4052	-	0,6,6	-	-	-		
86	OHX	6	2076	-	0,6,6	-	-	-		
86	OHX	Q2	503	-	0,6,6	-	-	-		
86	OHX	1	4072	-	0,6,6	-	-	-		
86	OHX	4	229	-	0,6,6	-	-	-		
86	OHX	2	2174	-	0,6,6	-	-	-		
86	OHX	1	4051	-	0,6,6	-	-	-		
86	OHX	1	4012	-	0,6,6	-	-	-		
86	OHX	6	2067	-	0,6,6	-	-	-		
86	OHX	1	4053	-	0,6,6	-	-	-		
86	OHX	5	4132	-	0,6,6	-	-	-		
86	OHX	5	4244	-	0,6,6	-	-	-		
86	OHX	5	4113	-	0,6,6	-	-	-		
86	OHX	15	305	-	0,6,6	-	-	-		
86	OHX	5	4100	-	0,6,6	-	-	-		
86	OHX	1	4006	-	0,6,6	-	-	-		
86	OHX	5	4077	-	0,6,6	-	-	-		
86	OHX	2	2105	-	0,6,6	-	-	-		
86	OHX	SR	401	-	0,6,6	-	-	-		
86	OHX	1	4196	-	0,6,6	-	-	-		
86	OHX	M5	303	-	0,6,6	-	-	-		
86	OHX	5	3942	-	0,6,6	-	-	-		
86	OHX	6	2170	-	0,6,6	-	-	-		
86	OHX	1	4151	-	0,6,6	-	-	-		
86	OHX	2	2073	-	0,6,6	-	-	-		
86	OHX	1	4085	-	0,6,6	-	-	-		
86	OHX	1	4098	-	0,6,6	-	-	-		
86	OHX	5	4013	-	0,6,6	-	-	-		
86	OHX	5	4046	-	0,6,6	-	-	-		
86	OHX	5	4061	-	0,6,6	-	-	-		
86	OHX	5	4008	-	0,6,6	-	-	-		
86	OHX	5	4089	-	0,6,6	-	-	-		
86	OHX	8	225	-	0,6,6	-	-	-		
86	OHX	5	3900	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4014	-	0,6,6	-	-	-		
86	OHX	1	4018	-	0,6,6	-	-	-		
86	OHX	6	2138	-	0,6,6	-	-	-		
86	OHX	6	2083	-	0,6,6	-	-	-		
86	OHX	5	4067	-	0,6,6	-	-	-		
86	OHX	5	4119	-	0,6,6	-	-	-		
86	OHX	5	3984	-	0,6,6	-	-	-		
86	OHX	5	4051	-	0,6,6	-	-	-		
86	OHX	5	4056	-	0,6,6	-	-	-		
86	OHX	5	4117	-	0,6,6	-	-	-		
86	OHX	5	4123	-	0,6,6	-	-	-		
86	OHX	2	2106	-	0,6,6	-	-	-		
86	OHX	2	2086	-	0,6,6	-	-	-		
86	OHX	1	4075	-	0,6,6	-	-	-		
86	OHX	M7	207	-	0,6,6	-	-	-		
86	OHX	1	4080	-	0,6,6	-	-	-		
86	OHX	7	221	-	0,6,6	-	-	-		
86	OHX	2	2029	-	0,6,6	-	-	-		
86	OHX	6	2111	-	0,6,6	-	-	-		
86	OHX	2	2085	-	0,6,6	-	-	-		
86	OHX	O7	105	-	0,6,6	-	-	-		
86	OHX	6	2196	-	0,6,6	-	-	-		
86	OHX	2	2144	-	0,6,6	-	-	-		
86	OHX	5	4247	-	0,6,6	-	-	-		
86	OHX	2	2148	-	0,6,6	-	-	-		
86	OHX	6	2068	-	0,6,6	-	-	-		
86	OHX	2	2090	-	0,6,6	-	-	-		
86	OHX	1	4177	-	0,6,6	-	-	-		
86	OHX	2	2095	-	0,6,6	-	-	-		
86	OHX	1	3939	-	0,6,6	-	-	-		
86	OHX	5	4151	-	0,6,6	-	-	-		
86	OHX	1	4019	-	0,6,6	-	-	-		
86	OHX	5	4190	-	0,6,6	-	-	-		
86	OHX	7	225	-	0,6,6	-	-	-		
86	OHX	5	3901	-	0,6,6	-	-	-		
86	OHX	6	2120	-	0,6,6	-	-	-		
86	OHX	2	2023	-	0,6,6	-	-	-		
86	OHX	1	3933	-	0,6,6	-	-	-		
86	OHX	6	2114	-	0,6,6	-	-	-		
86	OHX	2	2071	-	0,6,6	-	-	-		
86	OHX	1	4152	-	0,6,6	-	-	-		
86	OHX	1	3894	-	0,6,6	-	-	-		
86	OHX	6	2115	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4186	-	0,6,6	-	-	-		
86	OHX	6	2171	-	0,6,6	-	-	-		
86	OHX	5	4040	-	0,6,6	-	-	-		
86	OHX	1	4200	-	0,6,6	-	-	-		
86	OHX	1	4176	-	0,6,6	-	-	-		
86	OHX	6	2173	-	0,6,6	-	-	-		
86	OHX	5	4092	-	0,6,6	-	-	-		
86	OHX	2	2101	-	0,6,6	-	-	-		
86	OHX	2	2099	-	0,6,6	-	-	-		
86	OHX	5	4170	-	0,6,6	-	-	-		
86	OHX	2	2049	-	0,6,6	-	-	-		
86	OHX	C5	201	-	0,6,6	-	-	-		
86	OHX	6	2046	-	0,6,6	-	-	-		
86	OHX	1	3864	-	0,6,6	-	-	-		
86	OHX	1	3918	-	0,6,6	-	-	-		
86	OHX	6	2116	-	0,6,6	-	-	-		
86	OHX	5	3905	-	0,6,6	-	-	-		
86	OHX	2	2083	-	0,6,6	-	-	-		
86	OHX	5	4203	-	0,6,6	-	-	-		
86	OHX	1	4102	-	0,6,6	-	-	-		
86	OHX	6	2128	-	0,6,6	-	-	-		
86	OHX	5	3978	-	0,6,6	-	-	-		
86	OHX	1	3893	-	0,6,6	-	-	-		
86	OHX	5	4240	-	0,6,6	-	-	-		
86	OHX	2	2027	-	0,6,6	-	-	-		
86	OHX	2	2149	-	0,6,6	-	-	-		
86	OHX	6	2107	-	0,6,6	-	-	-		
86	OHX	1	3929	-	0,6,6	-	-	-		
86	OHX	5	4071	-	0,6,6	-	-	-		
86	OHX	2	2025	-	0,6,6	-	-	-		
86	OHX	5	3920	-	0,6,6	-	-	-		
86	OHX	6	2087	-	0,6,6	-	-	-		
86	OHX	6	2095	-	0,6,6	-	-	-		
86	OHX	1	3863	-	0,6,6	-	-	-		
86	OHX	1	3927	-	0,6,6	-	-	-		
86	OHX	1	4118	-	0,6,6	-	-	-		
86	OHX	5	4182	-	0,6,6	-	-	-		
86	OHX	2	2031	-	0,6,6	-	-	-		
86	OHX	15	306	-	0,6,6	-	-	-		
86	OHX	5	3908	-	0,6,6	-	-	-		
86	OHX	1	3993	-	0,6,6	-	-	-		
86	OHX	5	4112	-	0,6,6	-	-	-		
86	OHX	1	4023	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3917	-	0,6,6	-	-	-		
86	OHX	1	3917	-	0,6,6	-	-	-		
86	OHX	5	4024	-	0,6,6	-	-	-		
86	OHX	2	2171	-	0,6,6	-	-	-		
86	OHX	6	2183	-	0,6,6	-	-	-		
86	OHX	2	2030	-	0,6,6	-	-	-		
86	OHX	6	2103	-	0,6,6	-	-	-		
86	OHX	2	2108	-	0,6,6	-	-	-		
86	OHX	6	2162	-	0,6,6	-	-	-		
86	OHX	15	304	-	0,6,6	-	-	-		
86	OHX	1	4160	-	0,6,6	-	-	-		
86	OHX	5	3949	-	0,6,6	-	-	-		
86	OHX	1	3906	-	0,6,6	-	-	-		
86	OHX	5	4163	-	0,6,6	-	-	-		
86	OHX	5	4171	-	0,6,6	-	-	-		
86	OHX	1	4109	-	0,6,6	-	-	-		
86	OHX	6	2070	-	0,6,6	-	-	-		
86	OHX	6	2079	-	0,6,6	-	-	-		
86	OHX	5	4096	-	0,6,6	-	-	-		
86	OHX	5	4034	-	0,6,6	-	-	-		
86	OHX	1	4096	-	0,6,6	-	-	-		
86	OHX	1	3922	-	0,6,6	-	-	-		
86	OHX	2	2145	-	0,6,6	-	-	-		
86	OHX	2	2143	-	0,6,6	-	-	-		
86	OHX	6	2179	-	0,6,6	-	-	-		
86	OHX	6	2182	-	0,6,6	-	-	-		
86	OHX	5	4153	-	0,6,6	-	-	-		
86	OHX	2	2128	-	0,6,6	-	-	-		
86	OHX	1	3997	-	0,6,6	-	-	-		
86	OHX	6	2064	-	0,6,6	-	-	-		
86	OHX	m6	203	-	0,6,6	-	-	-		
86	OHX	5	3896	-	0,6,6	-	-	-		
86	OHX	1	3988	-	0,6,6	-	-	-		
86	OHX	2	2038	-	0,6,6	-	-	-		
86	OHX	5	4175	-	0,6,6	-	-	-		
86	OHX	5	4221	-	0,6,6	-	-	-		
86	OHX	1	4092	-	0,6,6	-	-	-		
86	OHX	6	2131	-	0,6,6	-	-	-		
86	OHX	5	4016	-	0,6,6	-	-	-		
86	OHX	1	4015	-	0,6,6	-	-	-		
86	OHX	6	2075	-	0,6,6	-	-	-		
86	OHX	5	4218	-	0,6,6	-	-	-		
86	OHX	5	4187	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4187	-	0,6,6	-	-	-		
86	OHX	6	2139	-	0,6,6	-	-	-		
86	OHX	2	2166	-	0,6,6	-	-	-		
86	OHX	3	217	-	0,6,6	-	-	-		
86	OHX	1	4150	-	0,6,6	-	-	-		
86	OHX	5	4053	-	0,6,6	-	-	-		
86	OHX	6	2089	-	0,6,6	-	-	-		
86	OHX	6	2096	-	0,6,6	-	-	-		
86	OHX	O7	104	-	0,6,6	-	-	-		
86	OHX	5	4023	-	0,6,6	-	-	-		
86	OHX	5	4130	-	0,6,6	-	-	-		
86	OHX	6	2073	-	0,6,6	-	-	-		
86	OHX	5	4230	-	0,6,6	-	-	-		
86	OHX	1	4004	-	0,6,6	-	-	-		
86	OHX	5	3907	-	0,6,6	-	-	-		
86	OHX	1	4045	-	0,6,6	-	-	-		
86	OHX	5	3977	-	0,6,6	-	-	-		
86	OHX	5	4226	-	0,6,6	-	-	-		
86	OHX	1	4035	-	0,6,6	-	-	-		
86	OHX	1	3957	-	0,6,6	-	-	-		
86	OHX	5	4194	-	0,6,6	-	-	-		
86	OHX	N9	101	-	0,6,6	-	-	-		
86	OHX	2	2170	-	0,6,6	-	-	-		
86	OHX	1	3905	-	0,6,6	-	-	-		
86	OHX	6	2181	-	0,6,6	-	-	-		
86	OHX	2	2096	-	0,6,6	-	-	-		
86	OHX	5	4093	-	0,6,6	-	-	-		
86	OHX	1	4141	-	0,6,6	-	-	-		
86	OHX	2	2059	-	0,6,6	-	-	-		
86	OHX	5	4223	-	0,6,6	-	-	-		
86	OHX	5	3938	-	0,6,6	-	-	-		
86	OHX	2	2179	-	0,6,6	-	-	-		
86	OHX	1	4184	-	0,6,6	-	-	-		
86	OHX	6	2146	-	0,6,6	-	-	-		
86	OHX	5	4081	-	0,6,6	-	-	-		
86	OHX	1	4105	-	0,6,6	-	-	-		
86	OHX	1	4191	-	0,6,6	-	-	-		
86	OHX	6	2110	-	0,6,6	-	-	-		
86	OHX	5	4144	-	0,6,6	-	-	-		
86	OHX	1	4123	-	0,6,6	-	-	-		
86	OHX	1	4056	-	0,6,6	-	-	-		
86	OHX	1	4060	-	0,6,6	-	-	-		
86	OHX	1	4139	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4026	-	0,6,6	-	-	-		
86	OHX	1	4059	-	0,6,6	-	-	-		
86	OHX	6	2084	-	0,6,6	-	-	-		
86	OHX	5	4069	-	0,6,6	-	-	-		
86	OHX	6	2195	-	0,6,6	-	-	-		
86	OHX	5	4064	-	0,6,6	-	-	-		
86	OHX	5	4087	-	0,6,6	-	-	-		
86	OHX	2	2033	-	0,6,6	-	-	-		
86	OHX	5	4050	-	0,6,6	-	-	-		
86	OHX	1	4050	-	0,6,6	-	-	-		
86	OHX	m5	306	-	0,6,6	-	-	-		
86	OHX	7	227	-	0,6,6	-	-	-		
86	OHX	1	4036	-	0,6,6	-	-	-		
86	OHX	s1	302	-	0,6,6	-	-	-		
86	OHX	2	2089	-	0,6,6	-	-	-		
86	OHX	1	4173	-	0,6,6	-	-	-		
86	OHX	1	4069	-	0,6,6	-	-	-		
86	OHX	s1	303	-	0,6,6	-	-	-		
86	OHX	5	4115	-	0,6,6	-	-	-		
86	OHX	2	2176	-	0,6,6	-	-	-		
86	OHX	1	3923	-	0,6,6	-	-	-		
86	OHX	1	3874	-	0,6,6	-	-	-		
86	OHX	1	3980	-	0,6,6	-	-	-		
86	OHX	4	237	-	0,6,6	-	-	-		
86	OHX	5	3950	-	0,6,6	-	-	-		
86	OHX	1	3920	-	0,6,6	-	-	-		
86	OHX	5	3963	-	0,6,6	-	-	-		
86	OHX	1	3963	-	0,6,6	-	-	-		
86	OHX	5	3979	-	0,6,6	-	-	-		
86	OHX	5	4045	-	0,6,6	-	-	-		
86	OHX	1	3961	-	0,6,6	-	-	-		
86	OHX	5	3899	-	0,6,6	-	-	-		
86	OHX	5	3957	-	0,6,6	-	-	-		
86	OHX	1	4181	-	0,6,6	-	-	-		
86	OHX	3	216	-	0,6,6	-	-	-		
86	OHX	5	4164	-	0,6,6	-	-	-		
86	OHX	14	403	-	0,6,6	-	-	-		
86	OHX	o7	103	-	0,6,6	-	-	-		
86	OHX	5	4039	-	0,6,6	-	-	-		
86	OHX	5	3945	-	0,6,6	-	-	-		
86	OHX	2	2024	-	0,6,6	-	-	-		
86	OHX	5	3915	-	0,6,6	-	-	-		
86	OHX	1	4044	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4107	-	0,6,6	-	-	-		
86	OHX	2	2146	-	0,6,6	-	-	-		
86	OHX	1	3858	-	0,6,6	-	-	-		
86	OHX	4	227	-	0,6,6	-	-	-		
86	OHX	6	2160	-	0,6,6	-	-	-		
86	OHX	1	3979	-	0,6,6	-	-	-		
86	OHX	2	2110	-	0,6,6	-	-	-		
86	OHX	1	4113	-	0,6,6	-	-	-		
86	OHX	5	4066	-	0,6,6	-	-	-		
86	OHX	5	4197	-	0,6,6	-	-	-		
86	OHX	1	4022	-	0,6,6	-	-	-		
86	OHX	1	3996	-	0,6,6	-	-	-		
86	OHX	2	2068	-	0,6,6	-	-	-		
86	OHX	1	3902	-	0,6,6	-	-	-		
86	OHX	6	2198	-	0,6,6	-	-	-		
86	OHX	5	3902	-	0,6,6	-	-	-		
86	OHX	M9	202	-	0,6,6	-	-	-		
86	OHX	1	3962	-	0,6,6	-	-	-		
86	OHX	5	3939	-	0,6,6	-	-	-		
86	OHX	6	2154	-	0,6,6	-	-	-		
86	OHX	5	4063	-	0,6,6	-	-	-		
86	OHX	1	4063	-	0,6,6	-	-	-		
86	OHX	1	4089	-	0,6,6	-	-	-		
86	OHX	2	2100	-	0,6,6	-	-	-		
86	OHX	1	4129	-	0,6,6	-	-	-		
86	OHX	1	4203	-	0,6,6	-	-	-		
86	OHX	5	4122	-	0,6,6	-	-	-		
86	OHX	5	4186	-	0,6,6	-	-	-		
86	OHX	1	3935	-	0,6,6	-	-	-		
86	OHX	5	3933	-	0,6,6	-	-	-		
86	OHX	2	2045	-	0,6,6	-	-	-		
86	OHX	1	4011	-	0,6,6	-	-	-		
86	OHX	1	4180	-	0,6,6	-	-	-		
86	OHX	2	2135	-	0,6,6	-	-	-		
86	OHX	1	4188	-	0,6,6	-	-	-		
86	OHX	6	2052	-	0,6,6	-	-	-		
86	OHX	1	3890	-	0,6,6	-	-	-		
88	BLS	1	4211	-	30,31,31	1.74	5 (16%)	30,43,43	1.61	8 (26%)
86	OHX	6	2194	-	0,6,6	-	-	-		
86	OHX	5	3947	-	0,6,6	-	-	-		
86	OHX	1	3947	-	0,6,6	-	-	-		
86	OHX	1	4005	-	0,6,6	-	-	-		
86	OHX	n9	103	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4166	-	0,6,6	-	-	-		
86	OHX	5	4018	-	0,6,6	-	-	-		
86	OHX	1	4048	-	0,6,6	-	-	-		
86	OHX	6	2065	-	0,6,6	-	-	-		
86	OHX	5	4156	-	0,6,6	-	-	-		
86	OHX	19	202	-	0,6,6	-	-	-		
86	OHX	1	4156	-	0,6,6	-	-	-		
86	OHX	6	2189	-	0,6,6	-	-	-		
86	OHX	5	4111	-	0,6,6	-	-	-		
86	OHX	1	4093	-	0,6,6	-	-	-		
86	OHX	1	4111	-	0,6,6	-	-	-		
86	OHX	5	4206	-	0,6,6	-	-	-		
86	OHX	1	4135	-	0,6,6	-	-	-		
86	OHX	O3	201	-	0,6,6	-	-	-		
86	OHX	1	3903	-	0,6,6	-	-	-		
86	OHX	8	228	-	0,6,6	-	-	-		
86	OHX	2	2160	-	0,6,6	-	-	-		
86	OHX	1	4034	-	0,6,6	-	-	-		
86	OHX	1	4097	-	0,6,6	-	-	-		
86	OHX	5	3998	-	0,6,6	-	-	-		
86	OHX	2	2039	-	0,6,6	-	-	-		
86	OHX	5	3976	-	0,6,6	-	-	-		
86	OHX	4	226	-	0,6,6	-	-	-		
86	OHX	5	4232	-	0,6,6	-	-	-		
86	OHX	1	4031	-	0,6,6	-	-	-		
86	OHX	5	4104	-	0,6,6	-	-	-		
86	OHX	2	2168	-	0,6,6	-	-	-		
86	OHX	1	4025	-	0,6,6	-	-	-		
86	OHX	1	4065	-	0,6,6	-	-	-		
86	OHX	5	4159	-	0,6,6	-	-	-		
86	OHX	4	235	-	0,6,6	-	-	-		
86	OHX	2	2057	-	0,6,6	-	-	-		
86	OHX	2	2154	-	0,6,6	-	-	-		
86	OHX	C3	201	-	0,6,6	-	-	-		
86	OHX	5	4038	-	0,6,6	-	-	-		
86	OHX	6	2051	-	0,6,6	-	-	-		
86	OHX	2	2088	-	0,6,6	-	-	-		
86	OHX	2	2098	-	0,6,6	-	-	-		
86	OHX	2	2109	-	0,6,6	-	-	-		
86	OHX	2	2122	-	0,6,6	-	-	-		
86	OHX	8	227	-	0,6,6	-	-	-		
86	OHX	5	4217	-	0,6,6	-	-	-		
86	OHX	5	3997	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4121	-	0,6,6	-	-	-		
86	OHX	6	2080	-	0,6,6	-	-	-		
86	OHX	1	4074	-	0,6,6	-	-	-		
86	OHX	5	4127	-	0,6,6	-	-	-		
86	OHX	1	4037	-	0,6,6	-	-	-		
86	OHX	5	4011	-	0,6,6	-	-	-		
86	OHX	1	3872	-	0,6,6	-	-	-		
86	OHX	5	4135	-	0,6,6	-	-	-		
86	OHX	1	4169	-	0,6,6	-	-	-		
86	OHX	1	4076	-	0,6,6	-	-	-		
86	OHX	6	2059	-	0,6,6	-	-	-		
86	OHX	6	2153	-	0,6,6	-	-	-		
86	OHX	5	3897	-	0,6,6	-	-	-		
86	OHX	1	3869	-	0,6,6	-	-	-		
86	OHX	1	3925	-	0,6,6	-	-	-		
86	OHX	2	2093	-	0,6,6	-	-	-		
86	OHX	1	3956	-	0,6,6	-	-	-		
86	OHX	5	4072	-	0,6,6	-	-	-		
86	OHX	1	4138	-	0,6,6	-	-	-		
86	OHX	2	2082	-	0,6,6	-	-	-		
86	OHX	1	4143	-	0,6,6	-	-	-		
86	OHX	1	3951	-	0,6,6	-	-	-		
86	OHX	2	2080	-	0,6,6	-	-	-		
86	OHX	1	4033	-	0,6,6	-	-	-		
86	OHX	6	2136	-	0,6,6	-	-	-		
86	OHX	1	4142	-	0,6,6	-	-	-		
86	OHX	5	3951	-	0,6,6	-	-	-		
86	OHX	5	4012	-	0,6,6	-	-	-		
86	OHX	5	4015	-	0,6,6	-	-	-		
86	OHX	5	4102	-	0,6,6	-	-	-		
86	OHX	5	4142	-	0,6,6	-	-	-		
86	OHX	5	4184	-	0,6,6	-	-	-		
86	OHX	5	4027	-	0,6,6	-	-	-		
86	OHX	5	4242	-	0,6,6	-	-	-		
86	OHX	2	2115	-	0,6,6	-	-	-		
86	OHX	o3	203	-	0,6,6	-	-	-		
86	OHX	1	3982	-	0,6,6	-	-	-		
86	OHX	2	2117	-	0,6,6	-	-	-		
86	OHX	6	2081	-	0,6,6	-	-	-		
86	OHX	5	4060	-	0,6,6	-	-	-		
86	OHX	5	4139	-	0,6,6	-	-	-		
86	OHX	1	3930	-	0,6,6	-	-	-		
86	OHX	2	2180	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	2	2035	-	0,6,6	-	-	-		
86	OHX	5	4196	-	0,6,6	-	-	-		
86	OHX	5	3929	-	0,6,6	-	-	-		
86	OHX	5	4085	-	0,6,6	-	-	-		
86	OHX	6	2117	-	0,6,6	-	-	-		
86	OHX	5	4231	-	0,6,6	-	-	-		
86	OHX	6	2129	-	0,6,6	-	-	-		
86	OHX	2	2177	-	0,6,6	-	-	-		
86	OHX	7	229	-	0,6,6	-	-	-		
86	OHX	m1	202	-	0,6,6	-	-	-		
86	OHX	8	218	-	0,6,6	-	-	-		
86	OHX	1	3868	-	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
88	BLS	1	4211	-	-	3/25/38/38	0/2/2/2
88	BLS	5	4248	-	-	9/25/38/38	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	1	4211	BLS	C1'-N1	-5.06	1.40	1.48
88	5	4248	BLS	C11-N12	-4.97	1.36	1.47
88	1	4211	BLS	C2-N3	-3.27	1.29	1.36
88	1	4211	BLS	C11-N12	3.11	1.53	1.47
88	1	4211	BLS	C5-C4	2.98	1.49	1.42
88	1	4211	BLS	C2-N1	2.64	1.45	1.40
88	5	4248	BLS	O4-C6'	2.38	1.38	1.30
88	5	4248	BLS	C14-N12	2.36	1.40	1.35

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	1	4211	BLS	C4-N3-C2	3.95	126.48	120.26
88	5	4248	BLS	N15-C14-N12	-3.04	115.32	118.64
88	1	4211	BLS	N15-C14-N12	-2.75	115.63	118.64
88	1	4211	BLS	O5'-C5'-C6'	-2.62	97.94	106.14
88	1	4211	BLS	C1'-N1-C2	2.46	121.68	117.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
88	1	4211	BLS	N4-C4-N3	2.43	122.25	117.91
88	1	4211	BLS	C6-N1-C2	-2.18	116.78	120.46
88	1	4211	BLS	O2-C2-N3	2.18	125.77	122.33
88	1	4211	BLS	C1'-C2'-C3'	-2.04	119.94	122.45

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
88	1	4211	BLS	C11-C10-C9-C8
88	1	4211	BLS	C11-C10-C9-N9
88	5	4248	BLS	C3'-C4'-N6-C7
88	5	4248	BLS	C4'-C5'-C6'-O4
88	5	4248	BLS	C4'-C5'-C6'-O3
88	5	4248	BLS	C7-C8-C9-N9
88	5	4248	BLS	N14-C14-N12-C11
88	5	4248	BLS	N15-C14-N12-C11
88	5	4248	BLS	N6-C7-C8-C9
88	5	4248	BLS	O7-C7-C8-C9
88	1	4211	BLS	C10-C11-N12-C13
88	5	4248	BLS	C5'-C4'-N6-C7

There are no ring outliers.

476 monomers are involved in 714 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	4075	OHX	1	0
86	6	2088	OHX	1	0
86	1	4001	OHX	2	0
86	2	2026	OHX	2	0
86	1	3860	OHX	1	0
86	1	3976	OHX	1	0
86	5	4222	OHX	1	0
86	6	2091	OHX	1	0
86	n1	201	OHX	1	0
86	6	2201	OHX	1	0
86	5	4095	OHX	1	0
86	5	3995	OHX	6	0
86	5	4239	OHX	1	0
86	6	2100	OHX	2	0
86	5	3966	OHX	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	3955	OHX	3	0
86	1	4140	OHX	2	0
86	1	4124	OHX	2	0
86	5	4105	OHX	2	0
86	1	4130	OHX	1	0
86	7	218	OHX	2	0
86	1	3873	OHX	1	0
86	5	4014	OHX	7	0
86	D3	202	OHX	2	0
86	6	2130	OHX	1	0
86	l3	404	OHX	1	0
86	2	2050	OHX	1	0
86	5	3932	OHX	1	0
86	7	223	OHX	1	0
86	5	4173	OHX	1	0
86	6	2147	OHX	6	0
86	6	2165	OHX	1	0
86	1	4201	OHX	1	0
86	1	4131	OHX	1	0
86	2	2167	OHX	1	0
86	2	2131	OHX	5	0
86	m0	302	OHX	1	0
86	1	3897	OHX	2	0
86	2	2173	OHX	1	0
86	2	2165	OHX	1	0
86	6	2049	OHX	1	0
86	5	4074	OHX	1	0
86	2	2104	OHX	1	0
86	8	222	OHX	1	0
86	1	4155	OHX	1	0
86	6	2057	OHX	1	0
86	6	2192	OHX	3	0
86	5	3975	OHX	1	0
86	3	218	OHX	1	0
86	M7	206	OHX	1	0
86	6	2098	OHX	1	0
86	6	2143	OHX	2	0
86	1	3899	OHX	1	0
86	2	2092	OHX	2	0
86	1	3977	OHX	1	0
86	1	4195	OHX	1	0
86	6	2163	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	4049	OHX	1	0
86	1	4121	OHX	1	0
86	1	3958	OHX	1	0
86	2	2130	OHX	1	0
86	2	2140	OHX	1	0
86	6	2105	OHX	2	0
86	1	3871	OHX	1	0
86	1	3865	OHX	1	0
86	c5	201	OHX	1	0
86	1	4040	OHX	7	0
86	1	4103	OHX	1	0
86	1	4172	OHX	1	0
86	5	3992	OHX	1	0
86	1	4132	OHX	1	0
86	6	2188	OHX	1	0
86	5	3935	OHX	7	0
86	1	4207	OHX	1	0
86	5	4126	OHX	2	0
86	5	4029	OHX	4	0
86	1	3955	OHX	1	0
86	5	4234	OHX	1	0
86	5	4209	OHX	1	0
86	5	3952	OHX	1	0
86	2	2134	OHX	1	0
86	5	4179	OHX	1	0
86	2	2072	OHX	1	0
86	1	4128	OHX	2	0
86	5	3910	OHX	2	0
86	5	4047	OHX	1	0
86	1	3931	OHX	1	0
86	L3	405	OHX	1	0
86	1	3876	OHX	2	0
86	8	215	OHX	1	0
86	6	2175	OHX	1	0
86	5	4068	OHX	1	0
86	6	2104	OHX	2	0
86	1	4057	OHX	1	0
86	5	4082	OHX	1	0
86	1	4147	OHX	2	0
86	5	4180	OHX	1	0
86	5	4188	OHX	1	0
86	1	3991	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4205	OHX	1	0
86	1	4038	OHX	1	0
86	2	2034	OHX	1	0
86	5	3980	OHX	1	0
86	2	2046	OHX	2	0
86	6	2122	OHX	1	0
86	8	216	OHX	5	0
86	5	4033	OHX	1	0
86	1	3966	OHX	1	0
86	5	4097	OHX	2	0
86	O1	202	OHX	7	0
86	1	3919	OHX	2	0
86	4	232	OHX	1	0
86	1	3924	OHX	2	0
86	6	2093	OHX	1	0
86	5	4238	OHX	8	0
86	1	4162	OHX	1	0
86	1	3965	OHX	6	0
86	1	3994	OHX	2	0
86	6	2062	OHX	1	0
86	5	4214	OHX	1	0
86	5	4088	OHX	2	0
86	5	3892	OHX	2	0
86	6	2204	OHX	1	0
86	6	2137	OHX	1	0
86	5	4155	OHX	1	0
86	1	3862	OHX	3	0
86	6	2124	OHX	1	0
86	5	4228	OHX	7	0
86	1	3881	OHX	1	0
86	1	3879	OHX	2	0
86	6	2047	OHX	1	0
86	5	3982	OHX	1	0
86	s9	201	OHX	1	0
86	5	3903	OHX	1	0
86	5	3930	OHX	1	0
86	1	4137	OHX	1	0
86	6	2125	OHX	2	0
86	5	4161	OHX	1	0
86	2	2077	OHX	2	0
86	2	2075	OHX	1	0
86	2	2081	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2155	OHX	1	0
86	2	2053	OHX	2	0
86	6	2178	OHX	2	0
86	2	2063	OHX	2	0
86	6	2053	OHX	1	0
86	1	4029	OHX	1	0
86	1	3882	OHX	1	0
86	5	4004	OHX	4	0
86	5	4133	OHX	1	0
86	5	3898	OHX	1	0
86	1	4144	OHX	1	0
86	1	3883	OHX	1	0
86	1	4070	OHX	1	0
86	5	3962	OHX	2	0
86	6	2086	OHX	1	0
86	5	3925	OHX	1	0
86	8	219	OHX	1	0
86	2	2157	OHX	3	0
86	5	3959	OHX	1	0
86	5	4124	OHX	1	0
86	1	4003	OHX	1	0
86	5	3895	OHX	1	0
86	1	3974	OHX	1	0
86	1	4008	OHX	1	0
86	5	4017	OHX	2	0
86	L3	406	OHX	1	0
86	6	2123	OHX	1	0
86	2	2129	OHX	2	0
86	q2	502	OHX	3	0
86	6	2190	OHX	3	0
86	5	3968	OHX	1	0
86	3	221	OHX	1	0
86	7	228	OHX	6	0
86	5	4083	OHX	1	0
86	1	4178	OHX	4	0
86	1	4165	OHX	1	0
86	2	2043	OHX	6	0
86	2	2091	OHX	2	0
86	1	4161	OHX	1	0
86	5	4048	OHX	1	0
86	6	2144	OHX	1	0
88	5	4248	BLS	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2159	OHX	1	0
86	6	2074	OHX	2	0
86	5	3996	OHX	1	0
86	6	2159	OHX	3	0
86	1	3936	OHX	1	0
86	2	2103	OHX	2	0
86	L4	404	OHX	2	0
86	6	2071	OHX	2	0
86	5	4195	OHX	5	0
86	3	224	OHX	1	0
86	1	4167	OHX	1	0
86	6	2092	OHX	1	0
86	5	3953	OHX	2	0
86	5	3928	OHX	1	0
86	1	3908	OHX	1	0
86	5	4157	OHX	1	0
86	1	4189	OHX	2	0
86	5	4212	OHX	6	0
86	2	2138	OHX	1	0
86	1	3884	OHX	1	0
86	2	2074	OHX	4	0
86	1	3971	OHX	2	0
86	5	4172	OHX	1	0
86	1	3867	OHX	1	0
86	1	4134	OHX	1	0
86	2	2044	OHX	2	0
86	5	3940	OHX	1	0
86	1	4190	OHX	1	0
86	M0	304	OHX	1	0
86	5	4106	OHX	1	0
86	5	4154	OHX	2	0
86	5	4043	OHX	1	0
86	5	4114	OHX	1	0
86	5	4136	OHX	1	0
86	5	3904	OHX	1	0
86	5	4145	OHX	1	0
86	2	2061	OHX	1	0
86	s8	302	OHX	1	0
86	5	3926	OHX	1	0
86	1	3940	OHX	1	0
86	5	3894	OHX	1	0
86	5	3972	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	4028	OHX	1	0
86	1	3926	OHX	1	0
86	1	3950	OHX	1	0
86	2	2116	OHX	1	0
86	1	4086	OHX	1	0
86	1	4194	OHX	7	0
86	5	3971	OHX	8	0
86	5	4138	OHX	3	0
86	5	4128	OHX	1	0
86	5	4006	OHX	1	0
86	6	2055	OHX	1	0
86	2	2055	OHX	1	0
86	8	229	OHX	1	0
86	6	2184	OHX	3	0
86	5	4022	OHX	1	0
86	1	4081	OHX	3	0
86	5	3909	OHX	3	0
86	4	234	OHX	1	0
86	1	4078	OHX	1	0
86	6	2149	OHX	1	0
86	6	2102	OHX	1	0
86	5	3991	OHX	1	0
86	m0	303	OHX	1	0
86	6	2126	OHX	2	0
86	6	2109	OHX	1	0
86	7	220	OHX	7	0
86	2	2041	OHX	1	0
86	1	4042	OHX	2	0
86	1	3886	OHX	1	0
86	7	222	OHX	1	0
86	1	3952	OHX	1	0
86	1	3877	OHX	1	0
86	2	2120	OHX	3	0
86	5	3965	OHX	2	0
86	1	3857	OHX	1	0
86	5	3946	OHX	1	0
86	6	2202	OHX	1	0
86	2	2069	OHX	1	0
86	4	236	OHX	1	0
86	5	3989	OHX	1	0
86	1	3932	OHX	1	0
86	5	4000	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2126	OHX	1	0
86	5	4229	OHX	1	0
86	2	2107	OHX	2	0
86	2	2040	OHX	1	0
86	5	4192	OHX	1	0
86	5	3969	OHX	1	0
86	5	3994	OHX	5	0
86	5	4211	OHX	1	0
86	1	4027	OHX	6	0
86	6	2061	OHX	3	0
86	6	2077	OHX	1	0
86	c3	201	OHX	1	0
86	5	3912	OHX	1	0
86	1	3878	OHX	1	0
86	1	4136	OHX	1	0
86	1	3998	OHX	5	0
86	2	2162	OHX	4	0
86	2	2066	OHX	1	0
86	2	2036	OHX	2	0
86	6	2157	OHX	1	0
86	1	4039	OHX	2	0
86	1	4153	OHX	6	0
86	6	2106	OHX	1	0
86	6	2112	OHX	1	0
86	5	3943	OHX	1	0
86	5	4193	OHX	10	0
86	1	3970	OHX	1	0
86	8	223	OHX	5	0
86	2	2097	OHX	1	0
86	1	4052	OHX	2	0
86	Q2	503	OHX	2	0
86	4	229	OHX	2	0
86	1	4051	OHX	1	0
86	1	4012	OHX	1	0
86	5	4244	OHX	1	0
86	5	4113	OHX	1	0
86	5	4100	OHX	2	0
86	2	2105	OHX	1	0
86	M5	303	OHX	1	0
86	2	2073	OHX	2	0
86	5	4046	OHX	1	0
86	5	4061	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	4008	OHX	2	0
86	5	3900	OHX	1	0
86	1	4014	OHX	1	0
86	6	2138	OHX	2	0
86	6	2083	OHX	1	0
86	5	3984	OHX	2	0
86	2	2106	OHX	1	0
86	M7	207	OHX	1	0
86	1	4080	OHX	2	0
86	7	221	OHX	1	0
86	2	2029	OHX	1	0
86	6	2111	OHX	2	0
86	2	2085	OHX	1	0
86	O7	105	OHX	1	0
86	6	2068	OHX	1	0
86	1	4177	OHX	1	0
86	2	2095	OHX	1	0
86	5	4190	OHX	1	0
86	5	3901	OHX	1	0
86	6	2120	OHX	7	0
86	2	2023	OHX	1	0
86	1	3933	OHX	1	0
86	6	2114	OHX	1	0
86	1	4152	OHX	1	0
86	1	3894	OHX	2	0
86	6	2171	OHX	7	0
86	5	4040	OHX	1	0
86	1	4200	OHX	3	0
86	5	4092	OHX	1	0
86	2	2099	OHX	1	0
86	C5	201	OHX	2	0
86	6	2046	OHX	1	0
86	1	3864	OHX	1	0
86	5	3905	OHX	2	0
86	6	2128	OHX	1	0
86	2	2149	OHX	1	0
86	6	2107	OHX	1	0
86	2	2025	OHX	1	0
86	5	3920	OHX	1	0
86	1	3927	OHX	2	0
86	1	4118	OHX	2	0
86	5	4182	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2031	OHX	8	0
86	5	3908	OHX	1	0
86	5	4112	OHX	1	0
86	1	4023	OHX	6	0
86	5	3917	OHX	1	0
86	1	3917	OHX	1	0
86	6	2183	OHX	1	0
86	6	2103	OHX	1	0
86	2	2108	OHX	1	0
86	15	304	OHX	1	0
86	1	4160	OHX	4	0
86	5	3949	OHX	2	0
86	5	4163	OHX	1	0
86	6	2070	OHX	1	0
86	6	2079	OHX	1	0
86	2	2143	OHX	1	0
86	6	2179	OHX	1	0
86	6	2182	OHX	1	0
86	1	3997	OHX	2	0
86	1	3988	OHX	2	0
86	2	2038	OHX	2	0
86	5	4175	OHX	1	0
86	1	4092	OHX	1	0
86	6	2075	OHX	1	0
86	5	4218	OHX	2	0
86	5	4187	OHX	1	0
86	6	2096	OHX	2	0
86	O7	104	OHX	7	0
86	5	4023	OHX	1	0
86	6	2073	OHX	1	0
86	5	4230	OHX	1	0
86	1	3957	OHX	3	0
86	5	4194	OHX	2	0
86	1	3905	OHX	1	0
86	2	2096	OHX	1	0
86	1	4141	OHX	2	0
86	5	3938	OHX	1	0
86	6	2146	OHX	1	0
86	1	4191	OHX	1	0
86	1	4139	OHX	1	0
86	1	4059	OHX	2	0
86	5	4069	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2195	OHX	1	0
86	5	4087	OHX	2	0
86	1	4050	OHX	5	0
86	m5	306	OHX	1	0
86	1	4036	OHX	1	0
86	s1	302	OHX	2	0
86	2	2089	OHX	3	0
86	1	3874	OHX	1	0
86	5	3950	OHX	3	0
86	1	3920	OHX	2	0
86	5	3963	OHX	1	0
86	5	4045	OHX	1	0
86	1	3961	OHX	1	0
86	5	3899	OHX	1	0
86	3	216	OHX	1	0
86	5	4164	OHX	1	0
86	o7	103	OHX	1	0
86	2	2024	OHX	1	0
86	2	2146	OHX	6	0
86	1	3979	OHX	1	0
86	2	2110	OHX	3	0
86	5	4066	OHX	1	0
86	1	3996	OHX	1	0
86	5	3902	OHX	2	0
86	M9	202	OHX	1	0
86	1	3962	OHX	1	0
86	6	2154	OHX	1	0
86	1	4089	OHX	1	0
86	1	4129	OHX	1	0
86	5	4186	OHX	2	0
86	1	3935	OHX	2	0
86	2	2045	OHX	1	0
86	1	4180	OHX	1	0
88	1	4211	BLS	2	0
86	5	3947	OHX	1	0
86	1	3947	OHX	1	0
86	1	4005	OHX	1	0
86	n9	103	OHX	1	0
86	1	4166	OHX	1	0
86	5	4018	OHX	2	0
86	1	4048	OHX	1	0
86	6	2065	OHX	1	0

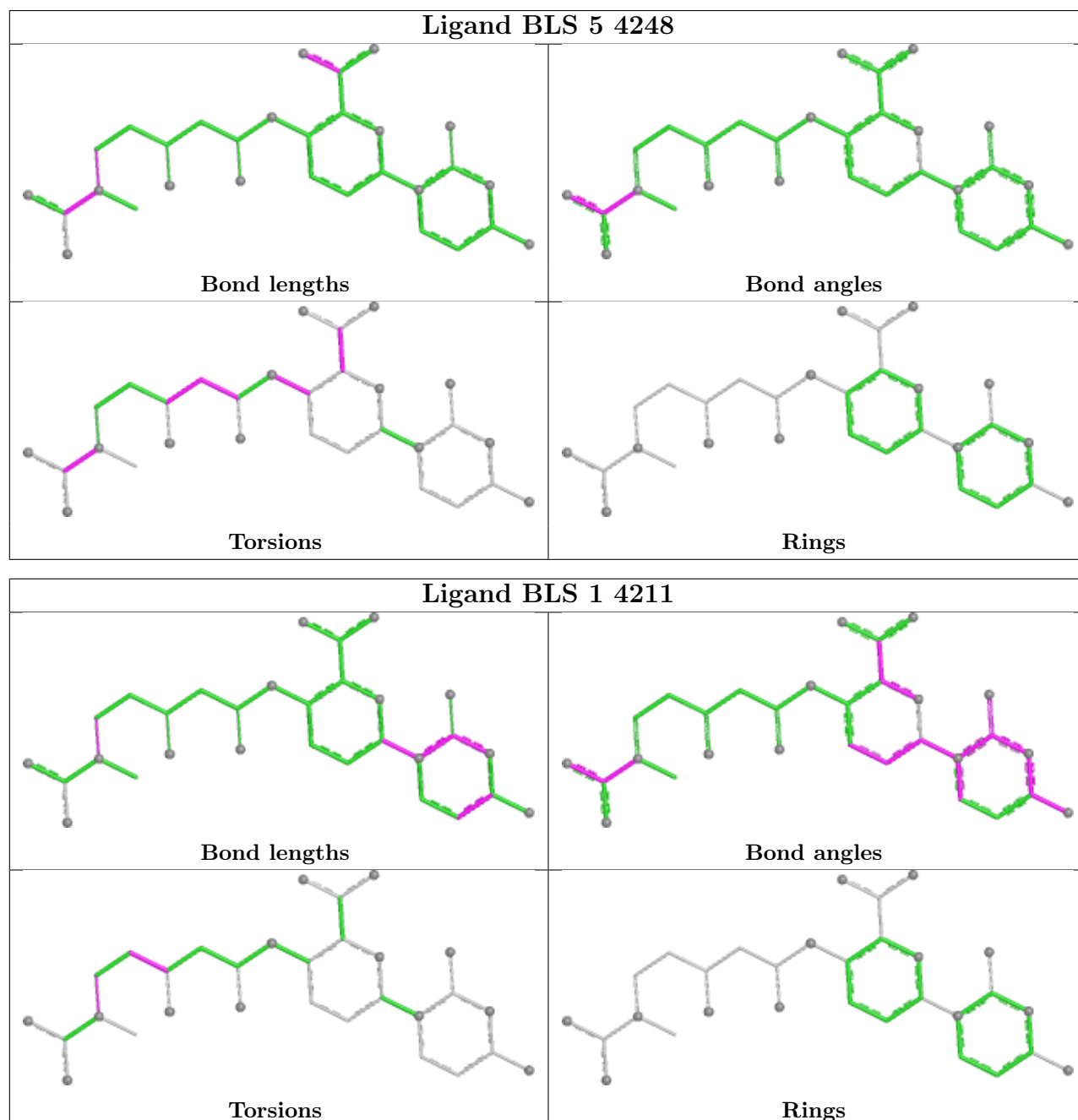
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2189	OHX	1	0
86	5	4206	OHX	1	0
86	1	4135	OHX	2	0
86	O3	201	OHX	1	0
86	8	228	OHX	1	0
86	2	2160	OHX	1	0
86	1	4034	OHX	2	0
86	4	226	OHX	1	0
86	5	4232	OHX	4	0
86	5	4104	OHX	1	0
86	2	2168	OHX	1	0
86	1	4025	OHX	1	0
86	1	4065	OHX	1	0
86	2	2057	OHX	2	0
86	2	2154	OHX	1	0
86	2	2098	OHX	7	0
86	2	2109	OHX	1	0
86	2	2122	OHX	1	0
86	1	4169	OHX	6	0
86	1	4076	OHX	2	0
86	6	2059	OHX	5	0
86	5	3897	OHX	1	0
86	1	3869	OHX	1	0
86	1	4138	OHX	1	0
86	1	4143	OHX	6	0
86	1	3951	OHX	5	0
86	1	4033	OHX	2	0
86	6	2136	OHX	2	0
86	5	3951	OHX	1	0
86	5	4142	OHX	1	0
86	5	4184	OHX	2	0
86	2	2115	OHX	1	0
86	o3	203	OHX	1	0
86	1	3982	OHX	1	0
86	6	2081	OHX	1	0
86	5	4060	OHX	4	0
86	5	4139	OHX	3	0
86	5	3929	OHX	1	0
86	5	4085	OHX	7	0
86	6	2117	OHX	2	0
86	5	4231	OHX	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths,

bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	2	1750/1800 (97%)	0.18	96 (5%) 30 19	61, 94, 179, 258	0
1	6	1795/1800 (99%)	0.13	72 (4%) 42 25	51, 84, 200, 293	0
2	S0	206/251 (82%)	0.50	11 (5%) 32 20	102, 118, 131, 153	0
2	s0	206/251 (82%)	0.36	6 (2%) 53 32	85, 103, 119, 128	0
3	S1	214/254 (84%)	0.70	20 (9%) 14 10	103, 132, 156, 161	0
3	s1	216/254 (85%)	0.22	6 (2%) 55 33	77, 92, 120, 138	0
4	S2	217/253 (85%)	0.34	6 (2%) 55 33	78, 96, 115, 139	0
4	s2	217/253 (85%)	0.78	29 (13%) 7 6	63, 80, 106, 123	0
5	S3	223/239 (93%)	0.49	15 (6%) 24 16	79, 97, 128, 158	0
5	s3	223/239 (93%)	0.63	22 (9%) 13 9	83, 107, 137, 152	0
6	S4	260/260 (100%)	0.53	16 (6%) 26 17	69, 91, 105, 128	0
6	s4	260/260 (100%)	0.55	20 (7%) 19 14	59, 86, 103, 125	0
7	S5	206/224 (91%)	0.71	12 (5%) 29 18	96, 118, 140, 155	0
7	s5	206/224 (91%)	0.66	11 (5%) 32 20	75, 99, 130, 154	0
8	S6	226/236 (95%)	0.77	27 (11%) 9 7	69, 99, 127, 139	0
8	s6	218/236 (92%)	0.72	28 (12%) 7 7	58, 83, 114, 141	0
9	S7	184/189 (97%)	0.61	15 (8%) 17 13	92, 123, 146, 151	0
9	s7	186/189 (98%)	0.53	14 (7%) 20 14	80, 113, 142, 151	0
10	S8	188/200 (94%)	0.49	11 (5%) 28 18	60, 77, 123, 136	0
10	s8	188/200 (94%)	0.49	16 (8%) 16 12	54, 81, 135, 154	0
11	S9	185/196 (94%)	0.88	25 (13%) 7 6	89, 102, 138, 173	0
11	s9	185/196 (94%)	0.59	15 (8%) 18 13	69, 88, 131, 167	0
12	C0	96/105 (91%)	0.47	5 (5%) 33 20	83, 104, 134, 152	0
12	c0	96/105 (91%)	0.90	18 (18%) 3 4	95, 129, 149, 158	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	C1	155/155 (100%)	0.70	13 (8%) 17 12	65, 80, 140, 148	0
13	c1	146/155 (94%)	0.77	16 (10%) 10 8	62, 79, 118, 142	0
14	C2	124/142 (87%)	1.12	20 (16%) 4 5	124, 142, 161, 171	0
14	c2	124/142 (87%)	0.92	13 (10%) 11 9	169, 188, 204, 211	0
15	C3	150/150 (100%)	0.39	6 (4%) 42 25	72, 94, 112, 115	0
15	c3	150/150 (100%)	0.27	5 (3%) 49 29	68, 85, 104, 122	0
16	C4	127/136 (93%)	1.10	22 (17%) 4 4	74, 135, 153, 161	0
16	c4	128/136 (94%)	0.51	3 (2%) 61 38	72, 92, 102, 107	0
17	C5	124/141 (87%)	0.36	2 (1%) 70 46	74, 92, 132, 145	0
17	c5	135/141 (95%)	1.08	17 (12%) 8 7	81, 102, 135, 190	0
18	C6	141/142 (99%)	0.65	9 (6%) 25 17	84, 113, 122, 128	0
18	c6	142/142 (100%)	0.65	11 (7%) 19 14	72, 93, 112, 135	0
19	C7	120/136 (88%)	0.42	6 (5%) 34 20	96, 117, 143, 147	0
19	c7	117/136 (86%)	0.76	18 (15%) 5 5	85, 102, 128, 141	0
20	C8	145/145 (100%)	0.62	12 (8%) 17 13	73, 102, 133, 142	0
20	c8	145/145 (100%)	0.51	5 (3%) 48 29	77, 89, 114, 130	0
21	C9	143/143 (100%)	0.82	11 (7%) 19 14	88, 104, 127, 141	0
21	c9	143/143 (100%)	0.64	10 (6%) 22 15	72, 85, 110, 134	0
22	D0	107/120 (89%)	0.60	6 (5%) 30 19	83, 115, 147, 151	0
22	d0	110/120 (91%)	0.70	9 (8%) 17 13	74, 109, 160, 202	0
23	D1	87/87 (100%)	0.34	4 (4%) 37 21	99, 107, 126, 139	0
23	d1	87/87 (100%)	0.28	3 (3%) 48 29	77, 88, 113, 129	0
24	D2	129/129 (100%)	0.36	5 (3%) 43 25	77, 89, 97, 104	0
24	d2	129/129 (100%)	0.12	2 (1%) 70 46	64, 75, 86, 99	0
25	D3	144/144 (100%)	0.26	3 (2%) 63 39	58, 70, 81, 106	0
25	d3	144/144 (100%)	0.10	2 (1%) 73 49	48, 58, 71, 90	0
26	D4	134/134 (100%)	0.40	5 (3%) 45 27	75, 103, 123, 132	0
26	d4	134/134 (100%)	0.61	17 (12%) 8 7	62, 85, 103, 139	0
27	D5	70/107 (65%)	0.79	10 (14%) 6 6	112, 130, 146, 148	0
27	d5	69/107 (64%)	0.69	6 (8%) 16 11	84, 114, 130, 133	0
28	D6	97/97 (100%)	0.62	4 (4%) 41 24	80, 100, 161, 170	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	d6	97/97 (100%)	0.47	7 (7%) 21 15	65, 79, 105, 114	0
29	D7	81/81 (100%)	0.35	3 (3%) 45 27	90, 107, 150, 157	0
29	d7	81/81 (100%)	0.24	2 (2%) 58 35	81, 96, 135, 149	0
30	D8	63/66 (95%)	0.68	4 (6%) 26 17	110, 129, 144, 147	0
30	d8	63/66 (95%)	0.40	3 (4%) 35 21	92, 116, 134, 147	0
31	D9	53/55 (96%)	0.70	4 (7%) 20 14	80, 85, 105, 113	0
31	d9	53/55 (96%)	1.16	16 (30%) 1 2	74, 83, 126, 148	0
32	E0	60/60 (100%)	0.58	5 (8%) 17 13	76, 100, 140, 147	0
33	E1	71/76 (93%)	0.65	6 (8%) 16 12	99, 123, 139, 143	0
33	e1	76/76 (100%)	1.01	7 (9%) 14 10	127, 158, 172, 178	0
34	SR	318/318 (100%)	0.58	23 (7%) 21 15	69, 123, 149, 180	0
34	sR	318/318 (100%)	0.83	37 (11%) 9 7	103, 125, 145, 168	0
35	SM	159/273 (58%)	0.82	25 (15%) 5 5	64, 96, 142, 152	0
35	sM	104/273 (38%)	0.86	18 (17%) 4 4	67, 103, 179, 188	0
36	1	3149/3396 (92%)	0.04	196 (6%) 26 17	31, 56, 144, 283	0
36	5	3150/3396 (92%)	0.07	241 (7%) 19 14	32, 58, 136, 278	0
37	3	121/121 (100%)	0.27	17 (14%) 6 6	43, 68, 84, 89	0
37	7	121/121 (100%)	-0.03	3 (2%) 58 35	40, 58, 74, 85	0
38	4	158/158 (100%)	-0.35	0 100 100	40, 60, 104, 160	0
38	8	158/158 (100%)	-0.13	6 (3%) 44 26	45, 71, 119, 144	0
39	L2	252/253 (99%)	0.35	14 (5%) 30 19	42, 55, 74, 83	0
39	l2	252/253 (99%)	0.79	38 (15%) 5 5	45, 63, 86, 101	0
40	L3	386/386 (100%)	-0.02	5 (1%) 75 51	36, 54, 73, 110	0
40	l3	386/386 (100%)	0.10	15 (3%) 43 25	33, 45, 61, 97	0
41	L4	361/361 (100%)	0.29	28 (7%) 19 13	35, 48, 64, 77	0
41	l4	361/361 (100%)	0.59	45 (12%) 8 7	41, 53, 76, 91	0
42	L5	296/296 (100%)	0.34	20 (6%) 23 16	52, 74, 96, 122	0
42	l5	294/296 (99%)	0.32	15 (5%) 33 20	44, 62, 93, 138	0
43	L6	156/175 (89%)	0.11	3 (1%) 66 42	41, 49, 76, 95	0
43	l6	157/175 (89%)	-0.02	2 (1%) 75 51	41, 50, 74, 89	0
44	L7	222/243 (91%)	0.17	6 (2%) 56 33	34, 43, 82, 131	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	l7	223/243 (91%)	-0.04	5 (2%) 62 39	33, 41, 84, 138	0
45	L8	233/255 (91%)	0.25	7 (3%) 52 31	65, 81, 122, 138	0
45	l8	231/255 (90%)	0.47	14 (6%) 27 17	79, 95, 132, 141	0
46	L9	191/191 (100%)	0.14	5 (2%) 57 34	49, 59, 71, 92	0
46	l9	191/191 (100%)	0.31	12 (6%) 26 17	40, 49, 74, 111	0
47	M0	211/220 (95%)	0.17	8 (3%) 44 26	39, 50, 85, 123	0
47	m0	213/220 (96%)	0.13	6 (2%) 55 33	40, 60, 90, 105	0
48	M1	169/173 (97%)	0.43	9 (5%) 32 20	57, 77, 93, 106	0
48	m1	169/173 (97%)	0.24	4 (2%) 59 37	47, 65, 81, 95	0
49	M3	193/198 (97%)	0.07	11 (5%) 29 18	43, 59, 106, 135	0
49	m3	194/198 (97%)	0.36	15 (7%) 19 14	49, 70, 116, 144	0
50	M4	136/137 (99%)	0.02	6 (4%) 39 23	43, 50, 66, 81	0
50	m4	137/137 (100%)	-0.07	3 (2%) 62 39	36, 45, 69, 82	0
51	M5	203/203 (100%)	0.34	11 (5%) 31 19	37, 54, 66, 73	0
51	m5	203/203 (100%)	0.62	25 (12%) 8 7	52, 66, 80, 88	0
52	M6	197/198 (99%)	-0.03	6 (3%) 52 31	34, 41, 64, 68	0
52	m6	197/198 (99%)	0.01	2 (1%) 79 56	29, 35, 63, 71	0
53	M7	183/183 (100%)	0.11	5 (2%) 56 33	41, 49, 119, 148	0
53	m7	155/183 (84%)	-0.12	1 (0%) 85 66	36, 46, 60, 95	0
54	M8	185/185 (100%)	0.33	12 (6%) 25 17	40, 49, 70, 86	0
54	m8	185/185 (100%)	0.50	24 (12%) 7 6	46, 54, 64, 69	0
55	M9	188/188 (100%)	0.34	13 (6%) 23 15	53, 73, 156, 164	0
55	m9	188/188 (100%)	0.49	19 (10%) 12 9	56, 71, 148, 159	0
56	N0	172/172 (100%)	0.12	5 (2%) 53 32	40, 49, 62, 68	0
56	n0	172/172 (100%)	-0.02	6 (3%) 47 28	34, 42, 56, 71	0
57	N1	159/159 (100%)	0.35	8 (5%) 34 20	41, 52, 101, 110	0
57	n1	159/159 (100%)	0.14	6 (3%) 44 26	39, 48, 91, 102	0
58	N2	100/120 (83%)	0.52	6 (6%) 27 17	85, 104, 119, 154	0
58	n2	98/120 (81%)	0.22	1 (1%) 79 56	80, 94, 107, 115	0
59	N3	136/136 (100%)	0.20	3 (2%) 62 39	39, 52, 67, 81	0
59	n3	136/136 (100%)	0.08	4 (2%) 53 32	33, 45, 64, 70	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	N4	98/155 (63%)	0.84	16 (16%) 4 4	50, 68, 177, 185	0
60	n4	135/155 (87%)	0.63	9 (6%) 24 16	44, 90, 137, 154	0
61	N5	121/141 (85%)	0.23	4 (3%) 49 29	50, 65, 87, 134	0
61	n5	120/141 (85%)	0.53	18 (15%) 5 5	57, 74, 101, 109	0
62	N6	126/126 (100%)	0.07	3 (2%) 59 37	47, 59, 72, 85	0
62	n6	126/126 (100%)	0.12	1 (0%) 82 61	50, 66, 87, 97	0
63	N7	135/135 (100%)	0.12	0 100 100	74, 93, 114, 129	0
63	n7	135/135 (100%)	0.50	7 (5%) 33 20	91, 105, 124, 135	0
64	N8	148/148 (100%)	0.32	15 (10%) 12 9	40, 49, 77, 92	0
64	n8	148/148 (100%)	0.17	7 (4%) 36 21	42, 58, 81, 86	0
65	N9	58/58 (100%)	0.35	3 (5%) 33 20	51, 60, 102, 108	0
65	n9	58/58 (100%)	0.34	4 (6%) 23 15	47, 60, 90, 104	0
66	O0	97/104 (93%)	0.12	3 (3%) 51 31	74, 84, 116, 122	0
66	o0	100/104 (96%)	0.19	3 (3%) 52 31	79, 90, 123, 130	0
67	O1	109/112 (97%)	0.05	1 (0%) 81 58	50, 64, 105, 135	0
67	o1	109/112 (97%)	0.33	5 (4%) 37 21	45, 57, 103, 130	0
68	O2	127/129 (98%)	0.04	2 (1%) 70 46	33, 45, 62, 81	0
68	o2	127/129 (98%)	-0.03	0 100 100	35, 50, 65, 87	0
69	O3	106/106 (100%)	-0.08	2 (1%) 66 42	35, 42, 64, 73	0
69	o3	106/106 (100%)	-0.09	1 (0%) 81 58	31, 40, 68, 88	0
70	O4	112/120 (93%)	0.20	3 (2%) 56 33	53, 71, 108, 125	0
70	o4	112/120 (93%)	0.53	8 (7%) 22 15	59, 81, 123, 135	0
71	O5	119/119 (100%)	0.24	4 (3%) 48 29	47, 68, 77, 81	0
71	o5	119/119 (100%)	0.11	4 (3%) 48 29	60, 76, 92, 102	0
72	O6	99/99 (100%)	0.21	4 (4%) 42 25	58, 70, 99, 119	0
72	o6	99/99 (100%)	0.08	0 100 100	66, 83, 112, 135	0
73	O7	87/87 (100%)	0.24	3 (3%) 48 29	41, 50, 82, 107	0
73	o7	87/87 (100%)	0.30	7 (8%) 18 13	52, 58, 92, 128	0
74	O8	77/77 (100%)	0.02	0 100 100	76, 91, 115, 128	0
74	o8	77/77 (100%)	0.23	2 (2%) 57 34	86, 99, 111, 115	0
75	O9	50/50 (100%)	0.10	3 (6%) 27 17	49, 56, 65, 70	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	o9	50/50 (100%)	0.23	1 (2%) 65 41	57, 62, 74, 91	0
76	Q0	52/52 (100%)	-0.17	1 (1%) 66 42	46, 53, 82, 94	0
76	q0	52/52 (100%)	-0.27	0 100 100	34, 42, 58, 69	0
77	Q1	25/25 (100%)	0.12	2 (8%) 18 13	59, 63, 68, 70	0
77	q1	25/25 (100%)	-0.15	0 100 100	53, 59, 73, 87	0
78	Q2	105/105 (100%)	0.37	9 (8%) 16 12	44, 62, 90, 129	0
78	q2	105/105 (100%)	0.58	12 (11%) 10 7	54, 64, 86, 114	0
79	Q3	91/91 (100%)	0.10	4 (4%) 39 23	49, 59, 82, 100	0
79	q3	91/91 (100%)	0.41	8 (8%) 15 11	48, 63, 79, 89	0
80	e0	62/62 (100%)	0.99	14 (22%) 2 3	63, 86, 124, 155	0
81	p0	143/311 (45%)	0.97	24 (16%) 4 4	89, 108, 197, 216	0
82	m2	0/160	-	-	-	-
83	p1	0/47	-	-	-	-
84	p2	0/46	-	-	-	-
All	All	33063/35346 (93%)	0.30	2084 (6%) 26 17	29, 75, 140, 293	0

All (2084) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
41	l4	62	ALA	12.6
17	c5	4	ALA	11.2
60	N4	75	THR	11.0
41	l4	63	GLU	10.9
41	l4	65	TRP	9.7
56	N0	1	MET	9.6
20	C8	2	SER	9.1
60	N4	76	VAL	8.7
26	d4	106	GLN	8.6
33	e1	80	ARG	8.2
41	l4	61	SER	7.9
41	l4	53	SER	7.9
36	5	929	A	7.7
1	2	913	G	7.6
67	o1	82	GLU	7.4
41	l4	55	LYS	7.4
58	N2	89	LEU	7.3
4	s2	84	LYS	7.0
54	m8	166	LEU	6.9

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Mol	Chain	Res	Type	RSRZ
36	5	361	A	6.9
36	1	2205	U	6.9
36	5	2165	G	6.9
36	5	928	C	6.8
36	5	1588	A	6.8
16	C4	93	THR	6.8
4	s2	78	ASP	6.7
36	5	823	C	6.6
41	l4	60	THR	6.6
41	l4	79	GLY	6.6
8	s6	215	ARG	6.6
41	l4	54	GLU	6.5
36	1	1584	U	6.4
11	S9	29	LYS	6.4
36	1	807	A	6.3
62	N6	127	GLU	6.3
36	1	1585	C	6.3
39	l2	16	PHE	6.3
42	L5	131	LEU	6.3
36	1	2401	A	6.2
79	q3	61	LYS	6.2
11	S9	25	ASP	6.2
39	l2	15	ILE	6.1
16	C4	94	PRO	6.1
34	sR	72	THR	6.1
36	5	2164	A	6.1
11	S9	60	LEU	6.1
1	2	558	U	6.1
42	l5	263	GLU	6.0
51	m5	81	TYR	6.0
36	5	47	C	6.0
36	5	822	G	6.0
13	c1	3	THR	5.9
33	E1	124	PRO	5.9
36	5	809	G	5.8
36	5	923	C	5.8
36	1	2522	G	5.8
36	5	1538	G	5.8
81	p0	192	ASP	5.8
1	6	718	U	5.8
1	2	794	U	5.8
36	5	1950	U	5.8

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Mol	Chain	Res	Type	RSRZ
78	q2	59	HIS	5.8
36	5	927	C	5.7
36	1	1547	G	5.7
54	m8	167	SER	5.7
1	2	111	U	5.7
36	1	1352	A	5.7
73	O7	2	GLY	5.7
34	sR	24	ALA	5.6
36	5	1585	C	5.6
9	s7	52	ALA	5.6
1	2	248	U	5.6
36	5	360	G	5.6
38	8	111	A	5.6
78	q2	61	LYS	5.6
51	m5	195	ASN	5.6
17	c5	7	ALA	5.6
20	C8	3	LEU	5.6
1	6	558	U	5.6
17	c5	6	ASN	5.6
36	1	2139	A	5.6
64	N8	33	GLY	5.5
36	5	1535	A	5.5
36	1	1351	U	5.5
36	5	820	A	5.5
1	6	1491	U	5.5
11	s9	20	GLU	5.5
16	C4	95	GLY	5.5
36	5	1798	A	5.4
36	1	1349	G	5.4
36	5	812	G	5.4
11	s9	104	PHE	5.4
36	5	906	A	5.4
36	5	908	G	5.4
81	p0	218	SER	5.4
36	5	1551	C	5.4
13	C1	89	ALA	5.4
1	2	795	U	5.4
11	S9	104	PHE	5.4
31	d9	50	ILE	5.4
36	5	1587	A	5.4
39	l2	14	SER	5.3
36	1	331	G	5.3

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Mol	Chain	Res	Type	RSRZ
36	1	356	C	5.3
13	c1	142	VAL	5.3
39	l2	19	HIS	5.3
73	O7	88	ALA	5.3
40	l3	363	SER	5.3
80	e0	7	SER	5.3
36	5	2171	G	5.3
36	5	932	U	5.2
36	5	907	G	5.2
36	5	1492	G	5.2
12	c0	98	THR	5.2
37	3	91	G	5.2
41	L4	69	ARG	5.2
78	Q2	61	LYS	5.2
14	C2	128	ALA	5.2
6	s4	172	PHE	5.2
39	l2	190	ARG	5.2
41	l4	80	GLY	5.2
21	C9	6	VAL	5.2
41	l4	67	THR	5.2
21	c9	23	GLN	5.2
36	5	48	A	5.1
36	5	1534	A	5.1
9	S7	105	THR	5.1
20	c8	18	LEU	5.1
54	m8	155	MET	5.1
36	5	1531	C	5.1
54	m8	173	GLU	5.1
54	M8	155	MET	5.1
36	5	815	G	5.1
36	5	903	U	5.1
1	2	793	A	5.1
36	1	1196	C	5.0
36	5	357	A	5.0
36	5	1537	A	5.0
36	5	1951	C	5.0
36	5	2401	A	5.0
7	S5	37	GLN	5.0
39	l2	186	PHE	5.0
9	S7	108	GLN	5.0
55	m9	139	VAL	5.0
26	d4	99	LYS	5.0

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Mol	Chain	Res	Type	RSRZ
36	5	1706	C	5.0
37	3	73	C	5.0
4	s2	85	PRO	5.0
36	5	97	U	5.0
36	5	2175	U	5.0
1	2	797	G	4.9
36	1	2171	G	4.9
55	m9	111	ASP	4.9
38	8	45	C	4.9
39	L2	46	LYS	4.9
41	L4	65	TRP	4.9
41	l4	69	ARG	4.9
36	1	1581	C	4.9
7	s5	37	GLN	4.9
51	m5	73	ARG	4.9
54	m8	159	LYS	4.9
34	SR	81	LEU	4.9
41	l4	78	GLY	4.9
81	p0	219	THR	4.9
17	c5	8	LYS	4.9
36	5	1796	G	4.9
21	c9	55	TYR	4.9
18	c6	2	SER	4.9
41	L4	2	SER	4.9
40	L3	94	GLU	4.9
35	SM	88	ARG	4.9
2	S0	97	PRO	4.9
26	d4	103	ALA	4.9
1	6	1800	A	4.9
67	o1	81	GLU	4.8
48	M1	90	GLN	4.8
4	s2	86	VAL	4.8
36	5	925	A	4.8
35	sM	131	ILE	4.8
36	5	1584	U	4.8
5	s3	152	PHE	4.8
31	D9	23	VAL	4.8
33	e1	85	TYR	4.8
13	C1	145	ALA	4.8
80	e0	9	ALA	4.8
51	m5	75	VAL	4.8
4	s2	208	GLU	4.8

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Mol	Chain	Res	Type	RSRZ
39	l2	10	LYS	4.8
55	m9	109	TYR	4.8
36	5	1586	G	4.8
36	5	1658	G	4.8
56	n0	2	ALA	4.7
41	l4	76	ARG	4.7
14	C2	130	THR	4.7
26	d4	135	ASP	4.7
33	E1	137	ASP	4.7
17	c5	5	VAL	4.7
36	5	1533	U	4.7
42	L5	130	GLU	4.7
39	l2	13	GLY	4.7
54	M8	156	GLY	4.7
1	2	310	C	4.7
14	C2	129	GLU	4.7
75	o9	51	ILE	4.6
8	s6	208	TYR	4.6
41	l4	75	PRO	4.6
36	5	930	U	4.6
37	3	87	G	4.6
81	p0	213	PHE	4.6
54	m8	158	HIS	4.6
51	m5	79	ALA	4.6
36	5	667	C	4.6
4	s2	97	ARG	4.6
41	L4	81	GLY	4.6
36	5	666	A	4.5
36	1	2165	G	4.5
41	l4	82	THR	4.5
20	C8	17	LEU	4.5
42	L5	133	GLU	4.5
41	L4	79	GLY	4.5
8	s6	166	GLU	4.5
12	c0	94	GLU	4.5
55	m9	140	GLU	4.5
36	5	2097	U	4.5
41	L4	80	GLY	4.5
36	5	808	A	4.5
36	5	1103	A	4.5
35	sM	120	GLU	4.5
13	C1	152	GLN	4.5

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Mol	Chain	Res	Type	RSRZ
1	6	739	G	4.5
9	S7	106	SER	4.5
36	1	2418	G	4.5
37	3	88	G	4.5
41	l4	89	ALA	4.5
42	l5	270	LYS	4.5
1	2	792	U	4.4
36	5	1552	G	4.4
60	n4	66	GLU	4.4
5	S3	50	ILE	4.4
39	L2	225	ILE	4.4
55	m9	114	LYS	4.4
54	m8	169	GLY	4.4
51	m5	193	ARG	4.4
72	O6	56	ARG	4.4
13	c1	117	VAL	4.4
36	5	2166	A	4.4
41	l4	90	PHE	4.4
1	2	245	U	4.4
1	6	744	U	4.4
10	s8	200	LYS	4.4
17	c5	136	SER	4.4
41	l4	85	SER	4.4
36	5	1536	G	4.4
67	o1	80	ASN	4.4
9	S7	102	PRO	4.4
13	c1	5	LEU	4.4
18	c6	114	ARG	4.4
51	m5	80	THR	4.4
15	C3	137	PRO	4.4
8	s6	212	LEU	4.3
31	d9	38	ILE	4.3
56	n0	138	GLN	4.3
1	2	796	A	4.3
36	1	352	A	4.3
1	2	798	C	4.3
11	S9	101	VAL	4.3
54	m8	172	PHE	4.3
6	s4	225	VAL	4.3
36	1	808	A	4.3
36	1	2207	A	4.3
36	5	904	A	4.3

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Mol	Chain	Res	Type	RSRZ
36	5	2096	A	4.3
1	6	664	U	4.3
36	5	1550	C	4.3
4	S2	144	TRP	4.3
36	5	1797	A	4.2
6	S4	207	LEU	4.2
34	sR	25	THR	4.2
34	sR	136	ILE	4.2
26	d4	104	SER	4.2
30	D8	43	ASN	4.2
41	L4	54	GLU	4.2
57	n1	86	GLU	4.2
64	n8	46	ASP	4.2
64	N8	34	MET	4.2
1	6	1634	C	4.2
36	5	358	G	4.2
35	SM	85	SER	4.2
39	l2	194	ASN	4.2
60	N4	77	LYS	4.2
4	s2	87	GLN	4.2
35	SM	110	TRP	4.2
19	c7	65	PRO	4.2
54	m8	186	VAL	4.2
39	L2	226	SER	4.2
41	l4	73	ARG	4.2
41	l4	87	GLN	4.2
49	m3	10	LEU	4.2
17	c5	134	THR	4.2
13	c1	4	GLU	4.2
18	c6	89	LEU	4.2
36	1	1583	A	4.2
47	m0	221	ALA	4.2
51	m5	82	GLY	4.2
36	1	1552	G	4.2
44	L7	225	GLN	4.1
78	q2	58	PHE	4.1
13	c1	2	SER	4.1
36	1	1095	U	4.1
1	2	807	A	4.1
36	1	1884	A	4.1
80	e0	62	VAL	4.1
31	d9	43	PHE	4.1

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Mol	Chain	Res	Type	RSRZ
49	m3	195	ALA	4.1
24	D2	85	ASP	4.1
35	SM	9	GLY	4.1
4	S2	63	VAL	4.1
21	C9	9	VAL	4.1
36	1	1291	A	4.1
36	1	2402	A	4.1
36	5	933	A	4.1
36	5	1491	A	4.1
12	c0	95	ARG	4.1
3	S1	65	VAL	4.1
36	1	1246	G	4.1
36	5	800	G	4.1
36	5	813	G	4.1
34	SR	79	TYR	4.1
1	6	1129	U	4.1
51	m5	77	LYS	4.1
34	SR	28	GLY	4.1
60	N4	86	SER	4.1
1	6	738	G	4.1
70	O4	2	ALA	4.1
19	c7	62	GLN	4.1
36	5	99	A	4.0
5	s3	225	TYR	4.0
35	sM	119	ALA	4.0
11	S9	97	LEU	4.0
36	5	916	G	4.0
7	S5	209	TYR	4.0
36	1	355	A	4.0
12	c0	97	PRO	4.0
13	C1	68	GLY	4.0
41	l4	86	GLY	4.0
10	S8	195	ARG	4.0
36	1	1651	U	4.0
41	l4	56	ALA	4.0
36	5	2095	G	4.0
51	m5	87	GLN	4.0
51	m5	194	GLN	4.0
20	C8	5	VAL	4.0
36	1	2419	A	4.0
41	l4	101	ALA	4.0
36	5	811	U	4.0

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Mol	Chain	Res	Type	RSRZ
8	S6	181	PRO	4.0
5	S3	179	GLN	4.0
35	SM	98	GLY	4.0
36	5	912	G	4.0
1	2	754	A	4.0
6	s4	153	ASN	4.0
41	L4	19	ALA	4.0
21	C9	139	THR	4.0
36	5	918	C	4.0
26	d4	100	VAL	3.9
36	1	1885	U	3.9
8	S6	73	ILE	3.9
34	SR	115	ILE	3.9
49	m3	3	ILE	3.9
78	q2	62	ALA	3.9
1	2	676	G	3.9
78	q2	54	THR	3.9
3	S1	114	VAL	3.9
36	1	1879	A	3.9
36	1	3154	C	3.9
27	D5	41	ILE	3.9
81	p0	209	LEU	3.9
81	p0	214	VAL	3.9
41	l4	84	ARG	3.9
42	l5	156	GLY	3.9
36	1	96	G	3.9
36	1	1217	A	3.9
36	5	2163	C	3.9
20	c8	17	LEU	3.9
36	5	922	U	3.9
4	s2	80	VAL	3.9
8	S6	80	ASN	3.9
5	S3	88	ALA	3.9
1	2	359	A	3.9
36	5	810	A	3.9
6	s4	183	VAL	3.9
36	1	353	G	3.9
81	p0	210	VAL	3.9
1	2	598	U	3.9
6	S4	123	LEU	3.9
36	5	2811	A	3.8
36	5	363	G	3.8

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Mol	Chain	Res	Type	RSRZ
41	L4	64	SER	3.8
54	M8	154	GLY	3.8
54	m8	156	GLY	3.8
19	c7	57	LEU	3.8
36	1	97	U	3.8
36	1	354	U	3.8
36	5	356	C	3.8
42	L5	135	VAL	3.8
51	m5	72	LYS	3.8
6	S4	124	GLY	3.8
41	l4	74	ILE	3.8
34	SR	27	ALA	3.8
13	c1	123	VAL	3.8
36	5	926	A	3.8
36	5	2554	A	3.8
37	3	97	A	3.8
7	s5	68	ILE	3.8
36	1	2235	C	3.8
13	c1	115	PHE	3.8
36	1	1543	G	3.8
28	D6	84	VAL	3.8
65	N9	25	LYS	3.8
23	D1	53	TYR	3.8
57	n1	159	PHE	3.8
36	1	51	A	3.8
36	1	2168	A	3.8
65	n9	22	LYS	3.7
31	d9	7	TRP	3.7
36	5	805	G	3.7
3	s1	73	LEU	3.7
7	s5	43	PHE	3.7
10	S8	192	TYR	3.7
4	s2	96	THR	3.7
39	l2	17	THR	3.7
34	sR	46	LYS	3.7
42	l5	267	ALA	3.7
1	2	806	A	3.7
36	1	1580	A	3.7
36	5	2172	A	3.7
1	2	305	C	3.7
8	S6	158	ILE	3.7
80	e0	32	GLY	3.7

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Mol	Chain	Res	Type	RSRZ
16	C4	96	PRO	3.7
36	5	924	G	3.7
19	c7	97	ASN	3.7
36	1	2421	U	3.7
1	2	1744	A	3.7
36	1	921	A	3.7
36	5	85	A	3.7
36	1	1216	C	3.7
36	5	2098	C	3.7
56	n0	17	GLU	3.7
8	s6	153	VAL	3.7
58	N2	27	VAL	3.7
15	C3	138	ASN	3.7
36	1	364	G	3.7
36	5	2871	G	3.7
41	l4	81	GLY	3.7
1	6	665	U	3.7
36	5	821	U	3.7
36	5	3275	U	3.7
36	5	2424	A	3.7
41	L4	67	THR	3.7
78	q2	57	VAL	3.7
1	6	1426	C	3.7
51	M5	71	ARG	3.7
41	l4	58	HIS	3.7
23	D1	69	LEU	3.7
22	D0	110	PRO	3.6
36	1	94	G	3.6
36	1	1542	G	3.6
36	1	1586	G	3.6
64	N8	46	ASP	3.6
81	p0	217	VAL	3.6
36	1	1555	U	3.6
36	5	83	U	3.6
36	5	1705	U	3.6
4	s2	81	MET	3.6
26	d4	96	LEU	3.6
36	5	51	A	3.6
36	5	936	A	3.6
41	l4	104	LYS	3.6
1	2	239	C	3.6
37	7	73	C	3.6

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Mol	Chain	Res	Type	RSRZ
26	d4	134	ALA	3.6
41	L4	63	GLU	3.6
49	m3	20	GLU	3.6
65	n9	14	ARG	3.6
55	m9	143	ILE	3.6
1	6	662	U	3.6
36	5	1591	G	3.6
18	c6	46	PHE	3.6
1	2	112	A	3.6
36	1	1842	A	3.6
36	5	2183	A	3.6
51	m5	74	PRO	3.6
36	1	1551	C	3.6
36	1	2420	C	3.6
45	L8	54	GLU	3.6
34	SR	32	LEU	3.6
81	p0	4	ILE	3.6
1	2	238	U	3.6
14	C2	117	GLY	3.6
36	5	362	U	3.6
42	L5	127	GLY	3.6
51	m5	191	TRP	3.6
6	S4	154	ILE	3.6
10	S8	193	LEU	3.6
54	M8	167	SER	3.6
36	1	1292	C	3.6
41	l4	103	THR	3.6
1	6	719	U	3.6
25	D3	3	LYS	3.6
8	S6	68	LEU	3.6
59	n3	68	GLU	3.6
21	C9	5	SER	3.6
34	sR	314	GLN	3.5
36	1	2169	G	3.5
36	1	2400	G	3.5
36	5	798	G	3.5
36	5	1493	G	3.5
3	S1	63	GLY	3.5
36	5	824	C	3.5
36	5	931	C	3.5
8	s6	209	ALA	3.5
34	SR	78	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
35	sM	136	ALA	3.5
51	m5	76	PRO	3.5
22	D0	30	LYS	3.5
4	s2	82	ASN	3.5
35	sM	122	GLU	3.5
17	C5	50	THR	3.5
63	n7	4	PHE	3.5
8	s6	179	VAL	3.5
12	C0	89	ALA	3.5
42	L5	134	ALA	3.5
66	O0	105	ALA	3.5
49	m3	7	LEU	3.5
36	1	1846	C	3.5
37	3	94	C	3.5
51	m5	188	ARG	3.5
3	s1	126	THR	3.5
4	s2	90	THR	3.5
36	5	87	U	3.5
45	l8	161	GLU	3.5
1	2	599	A	3.5
78	q2	43	TYR	3.5
36	1	1762	C	3.5
20	c8	138	THR	3.5
38	8	114	G	3.5
36	1	2175	U	3.5
1	2	799	A	3.5
34	SR	71	CYS	3.5
11	s9	93	LEU	3.5
1	2	747	C	3.5
35	SM	25	ILE	3.5
43	L6	137	ASP	3.5
81	p0	220	ILE	3.5
1	2	109	G	3.5
36	1	1878	G	3.5
26	d4	98	GLU	3.4
39	l2	73	GLU	3.4
54	m8	145	ASN	3.4
24	D2	73	GLY	3.4
26	d4	18	LEU	3.4
56	n0	1	MET	3.4
14	C2	136	ILE	3.4
18	c6	36	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
36	5	911	C	3.4
34	sR	33	LEU	3.4
36	1	1103	A	3.4
36	5	2404	A	3.4
20	C8	22	VAL	3.4
9	s7	58	LEU	3.4
36	1	2346	C	3.4
79	q3	65	ALA	3.4
1	6	794	U	3.4
35	sM	124	GLN	3.4
36	1	1530	U	3.4
36	5	50	U	3.4
36	5	2873	U	3.4
52	M6	42	ASN	3.4
78	Q2	59	HIS	3.4
36	1	809	G	3.4
36	5	1592	G	3.4
14	C2	45	LEU	3.4
46	L9	161	LEU	3.4
46	l9	75	VAL	3.4
60	N4	68	ALA	3.4
19	c7	69	ILE	3.4
36	5	1842	A	3.4
11	s9	21	SER	3.4
78	Q2	58	PHE	3.4
64	N8	37	GLY	3.4
1	2	579	A	3.3
36	1	1881	A	3.3
17	c5	126	VAL	3.3
22	d0	114	VAL	3.3
27	d5	62	VAL	3.3
37	3	98	C	3.3
40	l3	364	LYS	3.3
22	d0	107	THR	3.3
61	n5	28	THR	3.3
36	1	2206	G	3.3
36	5	1236	G	3.3
34	sR	54	PHE	3.3
12	c0	2	LEU	3.3
13	C1	111	VAL	3.3
79	Q3	71	VAL	3.3
36	5	806	A	3.3

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Mol	Chain	Res	Type	RSRZ
37	3	84	A	3.3
37	3	92	A	3.3
41	L4	74	ILE	3.3
64	N8	48	TYR	3.3
36	1	1550	C	3.3
36	5	1532	C	3.3
13	C1	3	THR	3.3
14	c2	23	THR	3.3
80	e0	3	LYS	3.3
1	2	801	G	3.3
32	E0	34	ALA	3.3
27	D5	67	ASP	3.3
35	SM	134	ASP	3.3
36	5	34	A	3.3
1	6	663	U	3.3
6	S4	159	THR	3.3
12	C0	67	THR	3.3
34	sR	302	PHE	3.3
61	n5	26	VAL	3.3
63	n7	10	VAL	3.3
9	s7	48	GLU	3.3
40	l3	309	GLY	3.3
6	s4	222	LEU	3.3
36	1	2874	G	3.3
41	L4	60	THR	3.3
16	C4	92	LYS	3.3
36	5	359	U	3.3
36	5	825	U	3.3
36	5	920	A	3.3
23	D1	23	ILE	3.3
28	d6	49	ALA	3.3
36	1	2202	C	3.3
36	5	346	C	3.3
41	L4	53	SER	3.2
16	C4	102	LEU	3.2
45	l8	214	LEU	3.2
48	M1	87	LYS	3.2
19	C7	6	THR	3.2
19	c7	25	THR	3.2
21	c9	17	ALA	3.2
35	sM	123	ALA	3.2
63	n7	2	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
1	2	744	U	3.2
8	s6	218	GLU	3.2
14	c2	129	GLU	3.2
36	1	50	U	3.2
36	1	922	U	3.2
36	5	86	G	3.2
36	5	1799	A	3.2
6	s4	121	TYR	3.2
5	S3	148	LYS	3.2
5	s3	216	PRO	3.2
28	d6	4	LYS	3.2
34	sR	32	LEU	3.2
54	m8	153	PHE	3.2
63	n7	92	PHE	3.2
45	l8	246	MET	3.2
14	c2	126	TRP	3.2
18	c6	3	ALA	3.2
39	L2	12	ALA	3.2
39	l2	7	ASN	3.2
18	C6	26	LYS	3.2
44	l7	103	LEU	3.2
48	m1	116	TYR	3.2
16	c4	34	SER	3.2
60	N4	88	ASP	3.2
62	N6	7	ASP	3.2
7	s5	36	ALA	3.2
39	l2	9	ARG	3.2
55	M9	54	ALA	3.2
12	c0	81	ASN	3.2
20	c8	32	LEU	3.2
47	m0	182	LEU	3.2
36	1	2203	U	3.2
39	l2	18	SER	3.2
81	p0	212	HIS	3.2
26	d4	107	GLN	3.2
13	C1	78	THR	3.2
61	n5	119	THR	3.2
36	1	2164	A	3.2
17	c5	9	LYS	3.2
36	1	1233	G	3.2
78	Q2	60	LYS	3.2
42	L5	172	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
31	d9	23	VAL	3.2
49	M3	22	VAL	3.2
34	SR	72	THR	3.2
1	2	745	U	3.1
39	L2	228	GLY	3.1
51	m5	197	LEU	3.1
74	o8	69	LEU	3.1
1	6	754	A	3.1
3	s1	114	VAL	3.1
51	M5	89	VAL	3.1
64	n8	44	ASN	3.1
1	6	883	C	3.1
36	1	1579	C	3.1
19	C7	95	ARG	3.1
65	N9	22	LYS	3.1
36	1	1293	U	3.1
36	1	1764	U	3.1
37	3	90	U	3.1
6	S4	175	PHE	3.1
57	n1	80	VAL	3.1
15	c3	104	ARG	3.1
14	C2	137	MET	3.1
36	1	1350	A	3.1
54	m8	177	GLY	3.1
14	c2	30	VAL	3.1
45	L8	116	VAL	3.1
3	S1	64	ARG	3.1
10	s8	195	ARG	3.1
80	e0	33	ARG	3.1
22	D0	77	LYS	3.1
36	1	1215	U	3.1
36	1	1763	U	3.1
36	1	1840	U	3.1
36	1	3156	U	3.1
50	m4	8	LYS	3.1
51	m5	192	LYS	3.1
42	l5	39	GLN	3.1
63	n7	59	ALA	3.1
14	C2	88	LEU	3.1
31	d9	36	LEU	3.1
1	6	623	A	3.1
36	1	1468	A	3.1

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Mol	Chain	Res	Type	RSRZ
36	5	35	A	3.1
36	5	2419	A	3.1
27	D5	40	VAL	3.1
36	1	923	C	3.1
36	1	1183	C	3.1
71	O5	48	ARG	3.1
39	l2	46	LYS	3.1
12	c0	65	TYR	3.1
36	5	2412	G	3.1
37	3	85	G	3.1
57	n1	79	MET	3.1
11	s9	48	GLN	3.1
36	1	2200	U	3.1
45	l8	77	GLN	3.1
73	o7	18	LEU	3.1
8	s6	71	THR	3.1
35	sM	85	SER	3.1
8	s6	58	LYS	3.1
9	s7	184	GLU	3.1
1	2	244	A	3.1
1	2	506	A	3.1
36	5	100	A	3.1
36	5	807	A	3.1
36	5	817	A	3.1
34	sR	121	MET	3.1
61	n5	88	MET	3.1
17	c5	25	LEU	3.0
35	sM	127	ALA	3.0
39	L2	78	ALA	3.0
53	M7	161	ALA	3.0
55	M9	131	ALA	3.0
73	o7	88	ALA	3.0
36	5	1234	G	3.0
9	S7	64	VAL	3.0
36	5	46	U	3.0
41	l4	71	VAL	3.0
4	s2	120	GLU	3.0
10	S8	187	GLU	3.0
15	c3	103	GLU	3.0
21	c9	51	GLU	3.0
61	n5	101	GLU	3.0
1	6	740	A	3.0

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Mol	Chain	Res	Type	RSRZ
9	s7	57	ALA	3.0
39	l2	102	LEU	3.0
36	1	2404	A	3.0
36	5	816	A	3.0
36	5	917	A	3.0
36	5	2139	A	3.0
41	L4	70	ALA	3.0
47	m0	111	LEU	3.0
36	1	917	A	3.0
64	N8	38	GLN	3.0
67	o1	79	ARG	3.0
32	E0	48	THR	3.0
46	l9	18	VAL	3.0
5	s3	135	GLU	3.0
42	l5	257	GLU	3.0
60	N4	4	GLU	3.0
39	l2	231	SER	3.0
5	s3	43	PRO	3.0
36	5	98	G	3.0
36	5	364	G	3.0
36	5	668	G	3.0
45	l8	210	ALA	3.0
17	c5	117	GLY	3.0
16	C4	81	VAL	3.0
36	5	1259	A	3.0
11	S9	102	GLU	3.0
36	1	1232	C	3.0
36	1	1802	C	3.0
49	m3	18	TRP	3.0
60	n4	95	SER	3.0
6	s4	55	ALA	3.0
28	d6	68	TYR	3.0
72	O6	85	ALA	3.0
36	1	1353	U	3.0
68	O2	26	HIS	3.0
36	5	902	G	3.0
36	5	2608	G	3.0
49	m3	19	GLN	3.0
8	s6	139	ASN	3.0
57	N1	159	PHE	3.0
49	M3	3	ILE	3.0
60	n4	1	MET	3.0

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Mol	Chain	Res	Type	RSRZ
27	D5	83	LEU	3.0
48	m1	157	GLU	3.0
36	5	2168	A	3.0
54	m8	157	PRO	3.0
61	n5	35	PRO	3.0
41	L4	84	ARG	3.0
28	D6	4	LYS	3.0
11	s9	127	VAL	3.0
12	c0	22	VAL	3.0
16	C4	13	VAL	3.0
78	Q2	57	VAL	3.0
1	6	699	U	3.0
36	5	2170	U	3.0
5	S3	25	PHE	3.0
23	D1	34	ILE	3.0
51	M5	196	THR	3.0
20	c8	3	LEU	2.9
36	1	2605	G	2.9
7	s5	96	SER	2.9
26	D4	2	SER	2.9
1	2	1425	A	2.9
36	5	1539	A	2.9
36	5	1847	A	2.9
41	l4	77	VAL	2.9
41	l4	224	GLY	2.9
51	M5	88	GLY	2.9
54	m8	154	GLY	2.9
6	S4	99	PHE	2.9
1	6	949	C	2.9
36	1	1582	C	2.9
36	5	2810	C	2.9
36	5	3154	C	2.9
7	s5	130	ILE	2.9
14	c2	28	LEU	2.9
15	C3	61	THR	2.9
36	5	919	U	2.9
36	5	2173	U	2.9
42	L5	93	THR	2.9
8	s6	136	LYS	2.9
14	C2	126	TRP	2.9
31	d9	46	LYS	2.9
34	sR	30	PRO	2.9

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Mol	Chain	Res	Type	RSRZ
39	l2	141	PRO	2.9
54	M8	159	LYS	2.9
5	s3	120	TYR	2.9
8	s6	217	SER	2.9
64	N8	52	TYR	2.9
70	o4	79	SER	2.9
36	5	934	G	2.9
36	5	2728	G	2.9
4	s2	125	ILE	2.9
8	S6	1	MET	2.9
58	N2	11	ILE	2.9
15	c3	106	ARG	2.9
36	1	1799	A	2.9
67	O1	79	ARG	2.9
49	m3	16	LYS	2.9
64	n8	27	LYS	2.9
1	6	741	C	2.9
14	c2	128	ALA	2.9
36	1	1843	C	2.9
41	L4	106	TRP	2.9
36	5	37	U	2.9
40	l3	366	GLY	2.9
78	q2	51	GLY	2.9
55	M9	132	PHE	2.9
31	d9	22	ARG	2.9
45	l8	93	LEU	2.9
54	M8	157	PRO	2.9
5	S3	87	TYR	2.9
36	1	931	C	2.9
36	1	2204	C	2.9
39	l2	248	GLY	2.9
42	l5	272	TYR	2.9
2	s0	24	LEU	2.9
19	c7	26	LEU	2.9
45	l8	124	ASP	2.9
44	L7	217	PRO	2.9
25	d3	60	GLU	2.9
47	M0	56	GLU	2.9
54	M8	173	GLU	2.9
10	s8	179	CYS	2.9
11	s9	17	ARG	2.9
14	C2	127	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
36	5	1237	G	2.9
36	5	2402	A	2.9
48	M1	96	PHE	2.9
34	sR	301	LEU	2.9
36	1	880	G	2.9
39	L2	71	LEU	2.9
42	L5	113	LEU	2.9
55	m9	142	ILE	2.9
60	n4	109	LEU	2.9
10	s8	84	HIS	2.8
19	c7	56	HIS	2.8
7	S5	206	SER	2.8
34	sR	26	SER	2.8
36	5	1258	U	2.8
41	l4	59	GLN	2.8
45	L8	66	SER	2.8
2	S0	75	ALA	2.8
9	S7	94	ALA	2.8
10	S8	167	ALA	2.8
47	M0	219	ALA	2.8
12	c0	90	THR	2.8
51	m5	196	THR	2.8
49	M3	20	GLU	2.8
52	M6	40	GLU	2.8
27	d5	40	VAL	2.8
42	L5	122	VAL	2.8
11	S9	32	GLY	2.8
5	s3	217	ILE	2.8
6	s4	261	LEU	2.8
28	D6	16	GLY	2.8
41	l4	100	PHE	2.8
55	M9	53	LYS	2.8
51	m5	92	LEU	2.8
36	1	365	A	2.8
36	5	913	A	2.8
8	s6	138	ALA	2.8
42	l5	157	ALA	2.8
1	2	751	G	2.8
1	6	1647	U	2.8
36	1	1533	U	2.8
6	s4	227	VAL	2.8
14	C2	115	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
14	c2	123	VAL	2.8
17	c5	69	GLU	2.8
54	m8	168	THR	2.8
36	5	2812	C	2.8
51	M5	83	LYS	2.8
16	C4	99	GLN	2.8
8	s6	206	ALA	2.8
16	C4	34	SER	2.8
60	n4	68	ALA	2.8
73	o7	36	SER	2.8
39	l2	6	ARG	2.8
8	S6	41	VAL	2.8
14	c2	132	GLU	2.8
26	D4	46	GLU	2.8
34	SR	96	THR	2.8
1	6	315	A	2.8
36	5	1244	A	2.8
36	5	2609	A	2.8
33	E1	103	LEU	2.8
41	l4	106	TRP	2.8
14	C2	135	MET	2.8
18	C6	29	ILE	2.8
19	C7	97	ASN	2.8
36	5	1530	U	2.8
35	sM	67	GLY	2.8
1	2	434	G	2.8
36	1	363	G	2.8
36	1	1492	G	2.8
36	5	909	G	2.8
11	S9	26	ALA	2.8
39	l2	8	GLN	2.8
3	S1	91	VAL	2.8
21	C9	97	SER	2.8
33	e1	81	LYS	2.8
49	M3	11	LYS	2.8
34	sR	19	TRP	2.8
51	M5	191	TRP	2.8
8	S6	134	GLY	2.8
58	n2	52	ASN	2.8
1	2	261	U	2.8
36	1	806	A	2.8
36	1	1554	U	2.8

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Mol	Chain	Res	Type	RSRZ
36	5	665	A	2.8
34	sR	303	ALA	2.8
36	5	1548	C	2.8
78	q2	47	GLN	2.8
79	q3	92	ALA	2.8
13	C1	151	LYS	2.8
35	SM	21	PRO	2.8
6	S4	199	GLU	2.8
17	C5	27	GLU	2.8
19	c7	17	ILE	2.8
53	M7	182	ILE	2.8
57	N1	48	ILE	2.8
11	S9	95	TYR	2.7
17	c5	10	ARG	2.7
70	o4	41	ARG	2.7
8	s6	205	ALA	2.7
14	C2	118	ALA	2.7
50	M4	9	ALA	2.7
1	2	749	U	2.7
1	6	506	A	2.7
1	6	1651	A	2.7
5	S3	142	LEU	2.7
42	L5	123	GLU	2.7
41	L4	68	GLY	2.7
36	1	1323	G	2.7
36	1	1882	G	2.7
36	5	1544	G	2.7
36	5	2874	G	2.7
8	s6	142	ARG	2.7
55	m9	100	ARG	2.7
33	e1	79	LYS	2.7
4	s2	155	ALA	2.7
11	s9	4	ALA	2.7
35	sM	129	ALA	2.7
5	s3	16	VAL	2.7
11	S9	48	GLN	2.7
19	c7	66	VAL	2.7
24	d2	63	VAL	2.7
44	L7	84	VAL	2.7
61	n5	24	LEU	2.7
1	2	1798	U	2.7
7	S5	187	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
55	M9	50	ILE	2.7
46	L9	1	MET	2.7
1	2	1019	A	2.7
1	6	416	A	2.7
36	1	1537	A	2.7
36	1	1883	A	2.7
36	5	1529	A	2.7
37	3	95	A	2.7
42	l5	155	THR	2.7
53	M7	128	ARG	2.7
5	S3	141	LYS	2.7
21	C9	13	ASP	2.7
74	o8	2	ALA	2.7
18	c6	19	VAL	2.7
11	s9	76	LEU	2.7
10	s8	103	GLN	2.7
55	M9	152	GLU	2.7
6	s4	184	THR	2.7
55	M9	151	ARG	2.7
51	M5	192	LYS	2.7
55	m9	153	LYS	2.7
61	N5	28	THR	2.7
32	E0	7	SER	2.7
1	2	742	U	2.7
1	6	1058	U	2.7
36	1	1324	U	2.7
36	5	935	U	2.7
36	5	2162	U	2.7
36	5	2802	A	2.7
36	5	2803	A	2.7
21	c9	136	ALA	2.7
20	C8	4	VAL	2.7
39	L2	79	ASN	2.7
46	l9	59	ASN	2.7
11	s9	5	PRO	2.7
36	1	881	C	2.7
36	1	2772	C	2.7
8	S6	194	LYS	2.7
9	S7	15	GLU	2.7
9	s7	53	GLY	2.7
35	SM	105	LYS	2.7
79	q3	66	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
1	2	346	G	2.7
1	2	677	G	2.7
37	3	89	G	2.7
41	L4	17	ALA	2.7
81	p0	221	ALA	2.7
21	c9	140	LEU	2.7
36	5	329	U	2.7
36	5	620	U	2.7
41	l4	52	VAL	2.7
7	S5	172	ILE	2.6
34	sR	188	ILE	2.6
36	5	355	A	2.6
60	N4	63	ILE	2.6
9	s7	24	PHE	2.6
41	l4	98	ARG	2.6
4	s2	142	GLY	2.6
10	s8	2	GLY	2.6
36	1	2726	C	2.6
36	5	1843	C	2.6
48	m1	108	GLU	2.6
7	S5	36	ALA	2.6
8	s6	211	LEU	2.6
13	c1	144	ALA	2.6
39	L2	62	VAL	2.6
48	M1	91	LEU	2.6
57	N1	121	ALA	2.6
8	s6	169	TYR	2.6
1	6	1455	G	2.6
6	S4	228	ILE	2.6
1	6	1214	U	2.6
10	s8	88	ASN	2.6
16	C4	103	ARG	2.6
36	1	2177	G	2.6
36	5	353	G	2.6
36	5	1949	G	2.6
18	C6	60	PHE	2.6
41	L4	73	ARG	2.6
56	N0	4	PHE	2.6
64	n8	34	MET	2.6
36	5	43	A	2.6
36	5	352	A	2.6
43	L6	133	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
16	C4	89	THR	2.6
3	S1	47	LEU	2.6
3	S1	120	LEU	2.6
4	s2	101	VAL	2.6
5	s3	218	LEU	2.6
11	s9	80	LEU	2.6
13	c1	75	VAL	2.6
30	D8	44	VAL	2.6
31	d9	47	ALA	2.6
34	sR	56	VAL	2.6
42	L5	75	LEU	2.6
55	m9	119	LEU	2.6
56	N0	2	ALA	2.6
9	S7	8	ILE	2.6
61	N5	22	LYS	2.6
64	N8	53	PHE	2.6
78	Q2	106	PHE	2.6
34	sR	50	ASP	2.6
41	L4	96	GLY	2.6
45	l8	37	GLY	2.6
81	p0	54	GLY	2.6
17	c5	118	GLU	2.6
26	d4	101	GLU	2.6
36	5	1553	U	2.6
1	2	729	G	2.6
1	2	1662	G	2.6
36	5	2161	G	2.6
36	5	2418	G	2.6
9	s7	16	LEU	2.6
59	N3	69	LEU	2.6
10	S8	190	ALA	2.6
18	c6	86	ALA	2.6
47	m0	148	VAL	2.6
51	m5	89	VAL	2.6
1	6	312	A	2.6
19	c7	96	SER	2.6
55	m9	115	ILE	2.6
4	s2	98	PHE	2.6
41	l4	102	PRO	2.6
19	c7	27	ASP	2.6
35	sM	134	ASP	2.6
55	M9	148	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
8	S6	207	GLU	2.6
29	D7	33	LEU	2.6
42	l5	268	GLU	2.6
45	L8	93	LEU	2.6
60	N4	89	LEU	2.6
61	n5	34	LEU	2.6
50	m4	9	ALA	2.6
66	O0	50	VAL	2.6
1	2	110	U	2.6
1	2	581	U	2.6
34	SR	12	THR	2.6
34	sR	294	TRP	2.6
35	SM	87	THR	2.6
75	O9	46	ARG	2.6
5	s3	150	MET	2.6
1	6	651	G	2.6
1	6	797	G	2.6
1	6	1395	G	2.6
36	1	1236	G	2.6
36	1	1538	G	2.6
49	m3	4	SER	2.6
1	2	752	A	2.6
36	5	351	A	2.6
55	m9	152	GLU	2.6
7	S5	74	ALA	2.6
41	L4	56	ALA	2.6
42	L5	144	VAL	2.6
35	sM	121	LYS	2.6
46	l9	95	ALA	2.6
54	m8	178	ARG	2.6
65	N9	2	ALA	2.6
9	s7	8	ILE	2.5
28	D6	44	ILE	2.5
55	M9	143	ILE	2.5
52	M6	80	PHE	2.5
5	S3	225	TYR	2.5
36	1	796	U	2.5
36	5	905	U	2.5
37	3	96	U	2.5
2	S0	126	PRO	2.5
42	L5	10	SER	2.5
10	s8	80	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
13	C1	118	GLN	2.5
39	L2	233	GLN	2.5
40	l3	245	GLY	2.5
50	M4	41	GLN	2.5
4	S2	190	LEU	2.5
5	s3	72	LEU	2.5
14	C2	103	LEU	2.5
1	2	1100	G	2.5
11	S9	96	VAL	2.5
21	c9	16	ASN	2.5
25	D3	17	VAL	2.5
32	E0	33	ARG	2.5
36	1	798	G	2.5
36	1	2201	G	2.5
39	l2	3	ARG	2.5
39	l2	208	ASP	2.5
66	o0	67	VAL	2.5
69	O3	40	ASP	2.5
1	2	369	A	2.5
1	2	740	A	2.5
36	1	936	A	2.5
36	1	1800	A	2.5
36	1	2208	A	2.5
47	m0	186	GLU	2.5
56	N0	104	GLU	2.5
34	sR	48	THR	2.5
41	L4	82	THR	2.5
16	C4	14	PHE	2.5
36	1	2156	C	2.5
36	5	1846	C	2.5
78	q2	56	PRO	2.5
42	l5	222	LEU	2.5
62	n6	102	SER	2.5
37	3	83	U	2.5
41	L4	59	GLN	2.5
79	Q3	15	GLY	2.5
8	s6	214	LYS	2.5
54	m8	164	ARG	2.5
18	C6	20	ALA	2.5
70	o4	75	ALA	2.5
6	S4	173	ILE	2.5
22	D0	19	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
29	d7	62	ILE	2.5
3	S1	46	THR	2.5
5	s3	42	THR	2.5
8	s6	28	PHE	2.5
36	1	883	A	2.5
36	1	1245	A	2.5
36	1	2345	A	2.5
36	5	2167	A	2.5
1	2	30	G	2.5
36	1	1536	G	2.5
36	5	910	G	2.5
36	5	1652	G	2.5
10	S8	166	TYR	2.5
4	s2	119	LYS	2.5
9	S7	38	LEU	2.5
13	c1	29	LYS	2.5
34	SR	105	GLY	2.5
36	5	1437	C	2.5
78	Q2	101	GLY	2.5
28	d6	86	VAL	2.5
39	l2	12	ALA	2.5
39	l2	78	ALA	2.5
1	2	29	U	2.5
1	6	1742	U	2.5
10	s8	89	GLU	2.5
11	s9	33	GLU	2.5
18	C6	40	GLU	2.5
36	1	903	U	2.5
36	1	1325	U	2.5
36	5	182	U	2.5
36	5	1555	U	2.5
42	L5	126	GLU	2.5
6	s4	57	ASN	2.5
30	d8	43	ASN	2.5
39	l2	48	ILE	2.5
80	e0	56	MET	2.5
7	s5	189	THR	2.5
17	c5	135	THR	2.5
54	M8	184	PHE	2.5
11	S9	18	PRO	2.5
39	l2	103	PRO	2.5
2	S0	146	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
5	s3	21	LEU	2.5
9	S7	104	ARG	2.5
39	l2	22	LEU	2.5
55	m9	104	ARG	2.5
40	l3	315	GLY	2.5
14	C2	22	VAL	2.5
21	c9	138	GLN	2.5
70	O4	72	VAL	2.5
1	2	1228	G	2.5
1	6	1453	G	2.5
4	s2	181	SER	2.5
36	1	812	G	2.5
36	1	1194	G	2.5
36	1	1541	G	2.5
36	5	33	G	2.5
36	5	1845	G	2.5
60	N4	72	SER	2.5
61	n5	98	ALA	2.5
9	S7	91	ILE	2.5
12	c0	84	GLU	2.5
24	D2	83	ILE	2.5
36	1	918	C	2.5
64	N8	45	MET	2.5
23	d1	75	ASN	2.5
35	SM	175	ASP	2.5
64	N8	44	ASN	2.5
1	6	1285	U	2.5
13	C1	72	THR	2.5
36	5	897	U	2.5
81	p0	205	THR	2.5
5	S3	143	ARG	2.5
10	s8	135	LYS	2.5
34	SR	59	ARG	2.5
34	sR	179	LYS	2.5
54	m8	11	LYS	2.5
9	S7	93	LEU	2.5
12	C0	2	LEU	2.5
19	c7	118	PRO	2.5
61	n5	113	LEU	2.5
65	n9	27	TYR	2.5
49	m3	74	GLY	2.5
9	S7	144	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
14	c2	31	VAL	2.5
70	o4	72	VAL	2.5
80	e0	4	VAL	2.5
42	l5	264	GLN	2.5
34	sR	284	ALA	2.4
35	sM	132	ALA	2.4
81	p0	216	ALA	2.4
4	s2	178	ILE	2.4
27	d5	50	ILE	2.4
81	p0	199	SER	2.4
1	2	746	A	2.4
8	S6	118	GLU	2.4
36	1	1847	A	2.4
36	1	2811	A	2.4
45	L8	161	GLU	2.4
13	C1	156	PHE	2.4
19	c7	7	LYS	2.4
34	sR	297	ASP	2.4
35	SM	101	ASP	2.4
52	m6	66	LYS	2.4
1	2	631	G	2.4
11	S9	30	LEU	2.4
36	1	1556	C	2.4
36	1	1652	G	2.4
36	5	2174	G	2.4
36	5	2556	C	2.4
37	3	82	G	2.4
38	8	110	C	2.4
1	6	261	U	2.4
36	1	2159	U	2.4
36	5	662	U	2.4
42	L5	119	TYR	2.4
6	s4	2	ALA	2.4
40	L3	75	ALA	2.4
45	l8	206	GLU	2.4
81	p0	6	GLU	2.4
49	m3	14	PHE	2.4
60	N4	74	LYS	2.4
60	n4	47	ARG	2.4
60	n4	117	LYS	2.4
79	q3	62	LYS	2.4
33	e1	103	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
76	Q0	121	LEU	2.4
7	s5	193	THR	2.4
26	D4	62	THR	2.4
33	E1	87	THR	2.4
36	1	1244	A	2.4
45	l8	74	THR	2.4
61	n5	58	ASP	2.4
4	S2	223	GLY	2.4
22	d0	100	VAL	2.4
64	N8	49	HIS	2.4
4	s2	118	ALA	2.4
1	2	1175	U	2.4
1	6	1557	U	2.4
2	s0	98	ILE	2.4
14	C2	20	ALA	2.4
60	N4	78	ALA	2.4
12	C0	13	GLN	2.4
34	SR	29	GLN	2.4
36	5	814	U	2.4
37	7	90	U	2.4
43	l6	4	GLN	2.4
5	s3	151	LYS	2.4
6	s4	7	LYS	2.4
50	M4	25	LYS	2.4
19	C7	71	PHE	2.4
56	n0	104	GLU	2.4
67	o1	111	GLU	2.4
9	s7	187	SER	2.4
21	C9	41	SER	2.4
35	SM	31	SER	2.4
6	S4	261	LEU	2.4
8	S6	77	LEU	2.4
27	D5	65	LEU	2.4
34	SR	73	LEU	2.4
57	n1	89	LEU	2.4
24	D2	89	TRP	2.4
27	d5	105	THR	2.4
61	n5	117	ASN	2.4
21	c9	131	ASP	2.4
39	l2	230	VAL	2.4
44	l7	114	GLY	2.4
46	l9	3	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
47	m0	181	TYR	2.4
79	Q3	37	TYR	2.4
11	s9	159	ALA	2.4
64	N8	35	ALA	2.4
1	2	753	A	2.4
1	6	1425	A	2.4
36	1	357	A	2.4
36	1	1850	A	2.4
46	L9	9	GLN	2.4
19	c7	95	ARG	2.4
51	m5	189	LYS	2.4
61	n5	25	LYS	2.4
10	S8	191	PHE	2.4
40	l3	32	PHE	2.4
1	6	231	U	2.4
5	S3	69	LEU	2.4
16	C4	37	GLU	2.4
20	C8	114	GLU	2.4
36	1	1540	U	2.4
36	1	2873	U	2.4
36	5	36	C	2.4
36	5	1791	C	2.4
45	l8	211	LEU	2.4
46	l9	38	LEU	2.4
31	d9	26	SER	2.4
1	6	702	G	2.4
1	6	984	G	2.4
3	S1	88	VAL	2.4
8	S6	180	THR	2.4
17	c5	34	VAL	2.4
3	S1	95	ASN	2.4
3	S1	209	ASN	2.4
16	C4	32	ASP	2.4
16	C4	66	ASP	2.4
49	M3	13	HIS	2.4
51	M5	2	GLY	2.4
51	m5	78	GLY	2.4
81	p0	203	ASP	2.4
8	s6	141	ILE	2.4
21	C9	36	ILE	2.4
34	SR	212	ALA	2.4
35	sM	135	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
42	L5	69	ILE	2.4
11	S9	16	LYS	2.4
48	M1	85	LYS	2.4
3	S1	113	MET	2.4
64	n8	45	MET	2.4
57	N1	149	GLN	2.4
14	c2	59	LEU	2.4
1	2	881	A	2.4
11	S9	106	GLU	2.4
36	1	933	A	2.4
19	C7	96	SER	2.4
1	6	350	U	2.4
11	S9	2	PRO	2.4
40	l3	29	VAL	2.4
44	l7	217	PRO	2.4
8	S6	78	THR	2.3
36	5	851	C	2.3
15	c3	2	GLY	2.3
51	M5	168	GLY	2.3
79	q3	63	THR	2.3
2	s0	170	ILE	2.3
34	SR	62	LYS	2.3
4	s2	91	ARG	2.3
31	d9	44	ARG	2.3
35	SM	89	ARG	2.3
35	sM	125	ALA	2.3
42	l5	69	ILE	2.3
49	m3	12	ASN	2.3
70	o4	50	ALA	2.3
60	n4	88	ASP	2.3
22	D0	84	MET	2.3
1	2	730	G	2.3
1	6	1213	G	2.3
36	5	1019	G	2.3
7	S5	217	LEU	2.3
11	S9	80	LEU	2.3
1	2	630	A	2.3
24	D2	58	SER	2.3
14	C2	95	LYS	2.3
36	1	45	A	2.3
36	1	1184	A	2.3
36	1	1294	A	2.3

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Mol	Chain	Res	Type	RSRZ
36	1	1886	A	2.3
36	5	1352	A	2.3
52	M6	44	SER	2.3
4	s2	221	THR	2.3
39	l2	20	THR	2.3
41	l4	148	ILE	2.3
49	M3	15	ARG	2.3
2	s0	20	ALA	2.3
4	S2	155	ALA	2.3
6	S4	17	HIS	2.3
1	6	260	U	2.3
8	S6	4	ASN	2.3
12	c0	96	ASN	2.3
34	sR	31	ASN	2.3
34	sR	111	MET	2.3
36	5	2423	U	2.3
36	1	1451	C	2.3
36	1	2682	C	2.3
8	s6	50	PHE	2.3
47	M0	167	LEU	2.3
81	p0	197	PHE	2.3
2	s0	117	GLU	2.3
8	S6	21	GLU	2.3
1	2	347	G	2.3
1	2	548	G	2.3
1	2	597	G	2.3
9	s7	51	VAL	2.3
35	SM	106	VAL	2.3
36	1	1441	G	2.3
36	5	1243	G	2.3
31	D9	22	ARG	2.3
69	o3	90	PRO	2.3
70	o4	59	PRO	2.3
77	Q1	21	ARG	2.3
6	s4	162	ILE	2.3
13	C1	2	SER	2.3
16	C4	15	GLY	2.3
21	C9	87	GLY	2.3
31	d9	51	GLY	2.3
39	l2	244	GLY	2.3
41	l4	66	GLY	2.3
22	d0	70	THR	2.3

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Mol	Chain	Res	Type	RSRZ
44	L7	164	SER	2.3
55	m9	189	ALA	2.3
40	l3	308	MET	2.3
64	N8	28	HIS	2.3
33	E1	151	ASN	2.3
49	M3	10	LEU	2.3
60	N4	87	LEU	2.3
36	1	2138	A	2.3
36	5	884	A	2.3
3	s1	74	GLN	2.3
12	c0	93	GLN	2.3
36	1	46	U	2.3
44	L7	131	GLU	2.3
29	D7	22	LYS	2.3
36	1	54	C	2.3
36	1	2422	C	2.3
38	8	84	C	2.3
39	L2	82	VAL	2.3
57	N1	136	ARG	2.3
6	s4	154	ILE	2.3
22	D0	111	GLY	2.3
48	m1	121	GLY	2.3
57	N1	23	GLY	2.3
27	D5	36	ALA	2.3
7	S5	99	MET	2.3
39	l2	243	THR	2.3
41	l4	99	MET	2.3
81	p0	215	SER	2.3
16	c4	102	LEU	2.3
20	C8	101	LEU	2.3
2	S0	102	PHE	2.3
36	1	2602	G	2.3
36	5	1786	G	2.3
36	5	2555	G	2.3
13	c1	118	GLN	2.3
3	S1	45	LYS	2.3
31	d9	4	GLU	2.3
31	d9	6	VAL	2.3
36	1	361	A	2.3
36	5	49	A	2.3
36	5	1435	A	2.3
36	5	2727	A	2.3

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Mol	Chain	Res	Type	RSRZ
1	2	106	U	2.3
1	2	600	U	2.3
1	6	598	U	2.3
36	1	2170	U	2.3
36	5	819	U	2.3
2	S0	122	ILE	2.3
17	c5	109	PRO	2.3
70	o4	42	PRO	2.3
5	S3	155	GLY	2.3
40	l3	362	ALA	2.3
54	m8	2	GLY	2.3
78	Q2	103	ALA	2.3
80	e0	34	ALA	2.3
1	6	1246	C	2.3
36	1	2810	C	2.3
39	l2	246	LEU	2.3
64	n8	49	HIS	2.3
6	s4	175	PHE	2.3
54	m8	184	PHE	2.3
78	q2	50	PHE	2.3
13	c1	32	LYS	2.3
13	c1	102	LYS	2.3
51	M5	195	ASN	2.3
61	n5	120	LYS	2.3
75	O9	43	ASN	2.3
49	M3	21	ARG	2.3
5	S3	224	ASP	2.3
35	SM	14	ASP	2.3
60	N4	67	VAL	2.3
14	C2	21	GLU	2.2
40	L3	227	GLU	2.2
42	L5	124	GLU	2.2
47	M0	45	GLU	2.2
1	2	115	G	2.2
36	1	902	G	2.2
37	3	115	G	2.2
2	S0	144	ILE	2.2
7	S5	89	ILE	2.2
16	C4	83	ILE	2.2
31	D9	38	ILE	2.2
8	S6	66	GLY	2.2
41	l4	70	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
42	L5	156	GLY	2.2
42	l5	295	GLY	2.2
60	N4	81	PRO	2.2
10	s8	79	ALA	2.2
15	C3	57	ALA	2.2
19	c7	39	ALA	2.2
1	2	1	U	2.2
1	6	538	A	2.2
7	s5	58	LEU	2.2
34	SR	9	LEU	2.2
36	5	1325	U	2.2
36	5	1353	U	2.2
36	5	1583	A	2.2
50	M4	60	LEU	2.2
10	S8	21	PHE	2.2
11	S9	133	HIS	2.2
31	d9	28	THR	2.2
6	s4	149	TYR	2.2
34	sR	205	SER	2.2
46	L9	2	LYS	2.2
1	2	1426	C	2.2
36	1	818	C	2.2
36	5	1255	C	2.2
36	5	2444	C	2.2
4	s2	121	VAL	2.2
11	S9	85	VAL	2.2
11	S9	127	VAL	2.2
14	c2	22	VAL	2.2
15	c3	105	ASN	2.2
23	d1	82	VAL	2.2
34	sR	20	VAL	2.2
46	l9	71	VAL	2.2
62	N6	26	GLN	2.2
6	s4	93	ASP	2.2
15	C3	103	GLU	2.2
10	s8	60	ILE	2.2
5	s3	153	ALA	2.2
20	C8	83	ALA	2.2
21	c9	72	GLY	2.2
60	N4	85	ALA	2.2
64	N8	30	GLY	2.2
10	s8	67	TRP	2.2

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Mol	Chain	Res	Type	RSRZ
2	S0	107	PHE	2.2
21	C9	38	LYS	2.2
51	m5	83	LYS	2.2
52	M6	48	PHE	2.2
36	1	813	G	2.2
36	5	331	G	2.2
39	l2	50	HIS	2.2
61	n5	39	LYS	2.2
73	o7	14	LYS	2.2
1	6	320	U	2.2
1	6	705	U	2.2
1	6	743	U	2.2
33	E1	148	TYR	2.2
36	1	1442	U	2.2
36	5	2159	U	2.2
9	s7	2	SER	2.2
36	1	666	A	2.2
36	1	925	A	2.2
36	1	1453	A	2.2
46	l9	25	VAL	2.2
59	N3	137	VAL	2.2
73	o7	79	GLN	2.2
7	s5	31	GLU	2.2
10	S8	188	GLU	2.2
19	c7	35	CYS	2.2
36	1	1563	C	2.2
39	l2	2	GLY	2.2
40	L3	51	ALA	2.2
41	l4	235	LEU	2.2
49	M3	7	LEU	2.2
50	M4	40	ASP	2.2
8	s6	204	ALA	2.2
34	sR	55	GLY	2.2
55	m9	112	ALA	2.2
61	n5	23	ALA	2.2
80	e0	49	LEU	2.2
6	S4	127	LYS	2.2
12	c0	5	LYS	2.2
35	sM	83	LYS	2.2
48	M1	16	LYS	2.2
40	l3	365	PHE	2.2
49	m3	17	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
16	C4	28	VAL	2.2
14	C2	141	SER	2.2
40	l3	2	SER	2.2
59	n3	133	SER	2.2
1	2	800	U	2.2
1	6	348	U	2.2
1	6	1452	U	2.2
36	5	84	U	2.2
71	O5	104	GLN	2.2
1	2	1681	A	2.2
1	2	1745	G	2.2
12	C0	96	ASN	2.2
1	6	684	A	2.2
8	S6	133	LEU	2.2
36	1	1535	A	2.2
36	5	52	A	2.2
36	5	900	G	2.2
36	5	1787	A	2.2
36	5	3276	G	2.2
40	l3	178	LEU	2.2
48	M1	157	GLU	2.2
27	d5	87	GLY	2.2
45	L8	114	ALA	2.2
49	m3	61	PRO	2.2
4	s2	88	LYS	2.2
35	SM	11	ASP	2.2
55	m9	116	ASP	2.2
61	n5	89	LYS	2.2
10	S8	160	PHE	2.2
30	d8	29	ARG	2.2
80	e0	55	ARG	2.2
34	sR	251	TRP	2.2
36	5	2181	C	2.2
36	5	2257	C	2.2
36	5	2422	C	2.2
13	C1	92	HIS	2.2
20	C8	137	HIS	2.2
56	N0	162	THR	2.2
27	D5	62	VAL	2.2
30	D8	25	VAL	2.2
45	l8	50	VAL	2.2
39	L2	249	SER	2.2

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Mol	Chain	Res	Type	RSRZ
53	m7	55	GLN	2.2
71	o5	118	ILE	2.2
5	S3	182	LEU	2.2
26	D4	17	LEU	2.2
5	s3	8	LYS	2.2
34	SR	137	LYS	2.2
35	SM	86	ASN	2.2
35	SM	127	ALA	2.2
48	M1	81	GLU	2.2
61	N5	23	ALA	2.2
64	n8	149	ALA	2.2
71	o5	120	ALA	2.2
79	Q3	92	ALA	2.2
1	2	1743	U	2.2
1	6	232	U	2.2
1	6	242	U	2.2
1	6	327	U	2.2
8	S6	173	PRO	2.2
29	D7	38	PRO	2.2
36	1	2423	U	2.2
36	5	2613	U	2.2
38	8	112	U	2.2
59	N3	3	GLY	2.2
11	S9	58	ASP	2.2
54	M8	172	PHE	2.2
1	2	550	A	2.2
36	1	95	A	2.2
36	1	1273	A	2.2
36	1	1264	G	2.2
36	1	2236	G	2.2
36	1	2614	G	2.2
36	5	96	G	2.2
54	M8	158	HIS	2.2
3	s1	134	VAL	2.1
9	S7	109	VAL	2.1
12	c0	20	VAL	2.1
26	d4	62	THR	2.1
35	SM	26	VAL	2.1
39	L2	61	VAL	2.1
41	L4	323	VAL	2.1
47	M0	50	VAL	2.1
61	N5	26	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
10	s8	166	TYR	2.1
21	C9	80	TYR	2.1
1	2	870	C	2.1
18	c6	29	ILE	2.1
36	1	1459	C	2.1
66	o0	100	ILE	2.1
3	S1	92	GLN	2.1
4	S2	187	LEU	2.1
4	s2	77	GLN	2.1
8	s6	178	LEU	2.1
11	S9	24	LEU	2.1
26	d4	17	LEU	2.1
55	M9	24	LEU	2.1
80	e0	8	LEU	2.1
12	c0	89	ALA	2.1
13	c1	9	SER	2.1
39	l2	60	LYS	2.1
59	n3	66	LYS	2.1
65	n9	25	LYS	2.1
39	L2	229	ALA	2.1
66	O0	29	SER	2.1
35	SM	116	GLU	2.1
58	N2	94	ARG	2.1
71	O5	102	GLU	2.1
18	C6	32	ASN	2.1
28	d6	2	PRO	2.1
48	M1	146	GLY	2.1
70	O4	78	GLY	2.1
81	p0	3	GLY	2.1
44	L7	209	ASN	2.1
26	d4	85	PHE	2.1
34	sR	61	PHE	2.1
1	2	348	U	2.1
1	6	1799	U	2.1
36	1	664	U	2.1
36	1	1457	U	2.1
36	5	1235	U	2.1
3	S1	43	VAL	2.1
80	e0	50	VAL	2.1
46	l9	138	THR	2.1
1	2	809	A	2.1
1	6	1346	A	2.1

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Mol	Chain	Res	Type	RSRZ
5	s3	79	TYR	2.1
18	C6	92	TYR	2.1
36	5	1545	A	2.1
56	n0	94	ILE	2.1
57	n1	84	TYR	2.1
58	N2	108	TYR	2.1
24	d2	22	LYS	2.1
27	D5	75	LEU	2.1
30	D8	45	LYS	2.1
33	e1	90	LYS	2.1
54	m8	161	LYS	2.1
11	S9	57	ARG	2.1
35	SM	108	GLN	2.1
36	1	1544	G	2.1
36	5	1547	G	2.1
36	5	1576	G	2.1
37	7	85	G	2.1
47	M0	218	ALA	2.1
70	o4	16	ARG	2.1
73	O7	86	ALA	2.1
8	s6	21	GLU	2.1
10	s8	177	GLY	2.1
19	c7	2	GLY	2.1
32	E0	30	PRO	2.1
35	SM	109	GLY	2.1
40	l3	310	GLY	2.1
49	m3	8	PRO	2.1
50	M4	10	SER	2.1
57	N1	51	GLY	2.1
72	O6	52	PRO	2.1
73	o7	9	GLY	2.1
79	q3	58	SER	2.1
1	2	848	C	2.1
1	2	1252	C	2.1
36	1	1548	C	2.1
36	5	1792	C	2.1
40	L3	209	PHE	2.1
3	s1	89	ASP	2.1
14	c2	131	ASP	2.1
18	c6	90	VAL	2.1
30	d8	15	VAL	2.1
55	m9	141	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
1	2	1362	U	2.1
1	6	313	U	2.1
1	6	1397	U	2.1
1	6	1398	U	2.1
1	6	1743	U	2.1
5	s3	176	LEU	2.1
6	s4	169	ILE	2.1
12	c0	92	ILE	2.1
14	c2	130	THR	2.1
16	c4	92	LYS	2.1
36	1	1247	U	2.1
36	1	1837	U	2.1
36	5	898	U	2.1
36	5	2421	U	2.1
3	S1	103	MET	2.1
53	M7	126	ARG	2.1
55	m9	85	ARG	2.1
2	S0	40	ALA	2.1
4	s2	92	ALA	2.1
34	sR	296	ALA	2.1
78	Q2	47	GLN	2.1
80	e0	2	ALA	2.1
1	2	1651	A	2.1
1	6	477	A	2.1
6	S4	107	GLY	2.1
31	d9	45	GLU	2.1
36	1	1529	A	2.1
36	1	2172	A	2.1
36	5	1589	A	2.1
44	l7	215	GLY	2.1
46	l9	11	GLU	2.1
54	m8	148	GLU	2.1
12	c0	60	SER	2.1
41	L4	85	SER	2.1
63	n7	97	SER	2.1
55	m9	27	ASN	2.1
73	o7	48	ASN	2.1
8	s6	36	VAL	2.1
1	2	31	C	2.1
1	2	308	C	2.1
1	2	435	C	2.1
1	2	559	C	2.1

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Mol	Chain	Res	Type	RSRZ
36	1	1532	C	2.1
36	5	1582	C	2.1
8	S6	43	ASP	2.1
12	c0	61	TRP	2.1
26	d4	102	LYS	2.1
34	sR	62	LYS	2.1
35	sM	84	LYS	2.1
2	s0	173	ILE	2.1
4	s2	83	ILE	2.1
8	S6	75	LEU	2.1
13	c1	40	LEU	2.1
28	d6	44	ILE	2.1
43	L6	76	LEU	2.1
54	M8	124	LEU	2.1
63	n7	135	ARG	2.1
20	C8	73	MET	2.1
26	D4	4	ALA	2.1
55	M9	169	ALA	2.1
1	2	698	U	2.1
1	2	743	U	2.1
8	S6	176	GLN	2.1
8	S6	210	GLN	2.1
20	C8	136	GLN	2.1
36	1	2176	U	2.1
36	5	796	U	2.1
45	l8	123	GLN	2.1
49	M3	19	GLN	2.1
16	C4	87	GLY	2.1
8	S6	218	GLU	2.1
26	d4	81	GLU	2.1
45	l8	25	PRO	2.1
31	D9	9	SER	2.1
34	SR	65	SER	2.1
57	N1	47	SER	2.1
79	q3	21	SER	2.1
16	C4	16	VAL	2.1
22	d0	56	VAL	2.1
1	2	1740	A	2.1
3	S1	85	LYS	2.1
15	C3	107	LYS	2.1
22	d0	53	LYS	2.1
36	1	2804	A	2.1

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Mol	Chain	Res	Type	RSRZ
36	5	3186	A	2.1
3	S1	61	LEU	2.1
18	C6	57	LEU	2.1
27	D5	71	ILE	2.1
39	l2	191	LEU	2.1
52	m6	27	LEU	2.1
54	M8	166	LEU	2.1
55	M9	138	LEU	2.1
55	M9	118	HIS	2.1
11	s9	25	ASP	2.1
2	S0	204	TYR	2.1
5	s3	134	CYS	2.1
18	c6	79	TYR	2.1
41	l4	94	CYS	2.1
51	M5	167	THR	2.1
71	o5	85	THR	2.1
72	O6	81	THR	2.1
1	2	741	C	2.1
1	2	1663	G	2.1
7	s5	154	ALA	2.1
36	5	1017	C	2.1
36	1	800	G	2.1
36	5	1655	G	2.1
36	5	2236	G	2.1
45	L8	141	ALA	2.1
5	s3	121	GLY	2.1
7	S5	75	GLY	2.1
25	d3	2	GLY	2.1
47	M0	204	GLY	2.1
47	M0	220	GLN	2.1
78	q2	49	GLY	2.1
5	S3	17	PHE	2.1
5	s3	25	PHE	2.1
6	S4	172	PHE	2.1
8	s6	35	GLU	2.1
35	SM	13	GLU	2.1
43	l6	129	GLU	2.1
52	M6	100	GLU	2.1
66	o0	55	GLU	2.1
25	D3	124	VAL	2.0
27	d5	54	VAL	2.0
36	5	2176	U	2.0

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Mol	Chain	Res	Type	RSRZ
50	m4	90	VAL	2.0
59	n3	137	VAL	2.0
61	n5	99	VAL	2.0
81	p0	23	LYS	2.0
2	S0	98	ILE	2.0
9	S7	49	ILE	2.0
11	s9	60	LEU	2.0
14	C2	59	LEU	2.0
22	d0	34	LEU	2.0
27	D5	50	ILE	2.0
34	sR	47	LEU	2.0
34	sR	144	LEU	2.0
51	m5	113	LEU	2.0
64	N8	42	ARG	2.0
75	O9	45	ARG	2.0
46	l9	1	MET	2.0
46	l9	96	HIS	2.0
49	M3	17	HIS	2.0
1	6	316	A	2.0
1	6	441	A	2.0
8	S6	37	ASP	2.0
8	S6	71	THR	2.0
9	s7	3	ALA	2.0
10	s8	57	ALA	2.0
19	C7	53	TYR	2.0
36	1	1182	A	2.0
36	1	1274	A	2.0
36	1	2424	A	2.0
36	5	1263	A	2.0
36	5	2804	A	2.0
69	O3	2	ALA	2.0
42	l5	182	GLY	2.0
40	l3	307	PRO	2.0
42	L5	139	PRO	2.0
11	S9	27	GLU	2.0
23	d1	42	GLU	2.0
1	2	431	C	2.0
1	2	696	C	2.0
1	2	1195	C	2.0
1	6	1646	C	2.0
28	d6	66	LYS	2.0
71	o5	25	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
81	p0	207	GLU	2.0
81	p0	208	GLU	2.0
36	1	938	C	2.0
36	5	804	C	2.0
1	6	631	G	2.0
6	S4	180	LEU	2.0
29	d7	33	LEU	2.0
34	sR	23	LEU	2.0
36	5	2610	G	2.0
41	L4	22	LEU	2.0
44	l7	105	LEU	2.0
68	O2	24	ARG	2.0
77	Q1	17	ARG	2.0
3	S1	171	ILE	2.0
39	l2	195	SER	2.0
53	M7	136	ILE	2.0
58	N2	72	SER	2.0
1	2	808	U	2.0
1	6	1396	U	2.0
35	SM	29	ASN	2.0
36	1	1549	U	2.0
36	1	1765	U	2.0
36	5	1840	U	2.0
54	m8	152	HIS	2.0
3	S1	60	ALA	2.0
16	C4	26	THR	2.0
22	d0	95	ALA	2.0
22	d0	30	LYS	2.0
41	L4	4	PRO	2.0
71	O5	107	LYS	2.0
1	2	1020	A	2.0
1	6	352	A	2.0
5	s3	137	VAL	2.0
6	s4	230	GLU	2.0
18	C6	66	ARG	2.0
33	e1	102	VAL	2.0
36	1	1887	A	2.0
36	1	2971	A	2.0
36	5	2182	A	2.0
60	n4	3	VAL	2.0
7	S5	194	LEU	2.0
8	S6	212	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
34	SR	34	LEU	2.0
34	SR	270	LEU	2.0
46	L9	191	LEU	2.0
9	s7	49	ILE	2.0
34	SR	136	ILE	2.0
34	sR	67	ILE	2.0
36	5	1725	C	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	1	3810	1/1	-0.11	0.32	133,133,133,133	0
85	MG	2	1963	1/1	-0.02	0.20	175,175,175,175	0
85	MG	2	2003	1/1	0.05	0.31	119,119,119,119	0
85	MG	6	2039	1/1	0.06	0.37	112,112,112,112	0
85	MG	2	1968	1/1	0.10	0.39	137,137,137,137	0
85	MG	2	1959	1/1	0.17	0.45	96,96,96,96	0
85	MG	6	1923	1/1	0.20	0.39	115,115,115,115	0
85	MG	1	3800	1/1	0.28	0.42	180,180,180,180	0
85	MG	1	3695	1/1	0.31	0.21	81,81,81,81	0
85	MG	6	1998	1/1	0.33	0.39	109,109,109,109	0
85	MG	2	1994	1/1	0.35	0.35	125,125,125,125	0
85	MG	6	1939	1/1	0.36	0.43	90,90,90,90	0
85	MG	5	3875	1/1	0.39	0.40	97,97,97,97	0
85	MG	2	1987	1/1	0.40	0.41	105,105,105,105	0
85	MG	6	2002	1/1	0.41	0.35	84,84,84,84	0
85	MG	2	1953	1/1	0.41	0.39	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3815	1/1	0.41	0.23	114,114,114,114	0
85	MG	2	2016	1/1	0.41	0.33	84,84,84,84	0
85	MG	2	1954	1/1	0.42	0.34	101,101,101,101	0
85	MG	2	2022	1/1	0.43	0.23	134,134,134,134	0
85	MG	1	3419	1/1	0.44	0.38	86,86,86,86	0
85	MG	2	1980	1/1	0.45	0.42	69,69,69,69	0
85	MG	2	1928	1/1	0.46	0.39	97,97,97,97	0
85	MG	M3	202	1/1	0.48	0.24	108,108,108,108	0
85	MG	5	3703	1/1	0.48	0.36	103,103,103,103	0
85	MG	2	1951	1/1	0.49	0.39	96,96,96,96	0
85	MG	6	1964	1/1	0.49	0.18	80,80,80,80	0
85	MG	1	3844	1/1	0.50	0.20	95,95,95,95	0
85	MG	5	3751	1/1	0.50	0.40	107,107,107,107	0
85	MG	2	1944	1/1	0.50	0.22	68,68,68,68	0
85	MG	5	3466	1/1	0.50	0.33	102,102,102,102	0
85	MG	2	1977	1/1	0.51	0.32	85,85,85,85	0
85	MG	6	2045	1/1	0.52	0.38	98,98,98,98	0
85	MG	2	1915	1/1	0.52	0.45	73,73,73,73	0
85	MG	2	1966	1/1	0.52	0.33	85,85,85,85	0
85	MG	6	1979	1/1	0.53	0.13	81,81,81,81	0
85	MG	2	2006	1/1	0.53	0.23	70,70,70,70	0
85	MG	2	1990	1/1	0.54	0.20	110,110,110,110	0
85	MG	5	3806	1/1	0.54	0.20	81,81,81,81	0
85	MG	5	3879	1/1	0.54	0.34	79,79,79,79	0
85	MG	5	3705	1/1	0.55	0.28	100,100,100,100	0
85	MG	5	3449	1/1	0.55	0.18	67,67,67,67	0
85	MG	5	3629	1/1	0.56	0.38	90,90,90,90	0
85	MG	1	3637	1/1	0.57	0.34	63,63,63,63	0
85	MG	2	2000	1/1	0.58	0.34	91,91,91,91	0
85	MG	1	3760	1/1	0.58	0.10	60,60,60,60	0
85	MG	2	1969	1/1	0.59	0.34	89,89,89,89	0
85	MG	6	1960	1/1	0.59	0.45	76,76,76,76	0
85	MG	2	1937	1/1	0.59	0.30	66,66,66,66	0
85	MG	6	1971	1/1	0.60	0.31	75,75,75,75	0
85	MG	2	1948	1/1	0.60	0.29	91,91,91,91	0
85	MG	2	1984	1/1	0.61	0.24	76,76,76,76	0
85	MG	6	1909	1/1	0.61	0.33	109,109,109,109	0
85	MG	6	1981	1/1	0.62	0.28	90,90,90,90	0
85	MG	1	3418	1/1	0.62	0.28	91,91,91,91	0
85	MG	2	1909	1/1	0.62	0.40	73,73,73,73	0
85	MG	5	3494	1/1	0.62	0.34	42,42,42,42	0
85	MG	5	3827	1/1	0.62	0.15	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	6	2014	1/1	0.62	0.17	149,149,149,149	0
85	MG	1	3722	1/1	0.62	0.16	68,68,68,68	0
85	MG	6	1995	1/1	0.63	0.33	77,77,77,77	0
85	MG	6	1965	1/1	0.63	0.31	82,82,82,82	0
85	MG	5	3469	1/1	0.63	0.24	121,121,121,121	0
85	MG	M1	201	1/1	0.63	0.28	64,64,64,64	0
85	MG	5	3763	1/1	0.63	0.16	104,104,104,104	0
86	OHX	1	4183	7/7	0.63	0.17	201,201,201,201	0
85	MG	2	1939	1/1	0.64	0.34	73,73,73,73	0
85	MG	5	3677	1/1	0.64	0.30	89,89,89,89	0
85	MG	6	1932	1/1	0.64	0.32	81,81,81,81	0
85	MG	1	3492	1/1	0.64	0.26	84,84,84,84	0
85	MG	2	1961	1/1	0.64	0.31	65,65,65,65	0
85	MG	6	1962	1/1	0.64	0.28	95,95,95,95	0
85	MG	5	3766	1/1	0.65	0.23	102,102,102,102	0
85	MG	6	1949	1/1	0.65	0.29	58,58,58,58	0
85	MG	2	2019	1/1	0.65	0.36	70,70,70,70	0
85	MG	6	1919	1/1	0.65	0.30	68,68,68,68	0
85	MG	5	3850	1/1	0.65	0.26	83,83,83,83	0
85	MG	2	1914	1/1	0.65	0.42	59,59,59,59	0
85	MG	6	1902	1/1	0.65	0.31	64,64,64,64	0
85	MG	o4	203	1/1	0.65	0.16	59,59,59,59	0
85	MG	6	1907	1/1	0.65	0.28	79,79,79,79	0
85	MG	2	1917	1/1	0.66	0.38	61,61,61,61	0
85	MG	6	1904	1/1	0.66	0.37	73,73,73,73	0
85	MG	6	2029	1/1	0.66	0.27	105,105,105,105	0
85	MG	5	3630	1/1	0.67	0.36	54,54,54,54	0
85	MG	6	1950	1/1	0.67	0.44	65,65,65,65	0
85	MG	2	1933	1/1	0.67	0.42	74,74,74,74	0
85	MG	1	3586	1/1	0.67	0.40	51,51,51,51	0
85	MG	1	3604	1/1	0.67	0.14	81,81,81,81	0
85	MG	2	1930	1/1	0.68	0.31	74,74,74,74	0
85	MG	6	1992	1/1	0.68	0.21	58,58,58,58	0
85	MG	6	2034	1/1	0.68	0.25	94,94,94,94	0
85	MG	D0	201	1/1	0.68	0.39	72,72,72,72	0
85	MG	2	2002	1/1	0.68	0.14	102,102,102,102	0
85	MG	5	3775	1/1	0.68	0.15	66,66,66,66	0
85	MG	2	1996	1/1	0.68	0.29	98,98,98,98	0
86	OHX	5	4230	7/7	0.68	0.19	178,178,178,178	0
85	MG	1	3668	1/1	0.69	0.26	73,73,73,73	0
85	MG	3	201	1/1	0.69	0.30	66,66,66,66	0
85	MG	5	3525	1/1	0.69	0.50	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	1922	1/1	0.69	0.25	78,78,78,78	0
85	MG	2	1936	1/1	0.69	0.41	60,60,60,60	0
85	MG	5	3673	1/1	0.69	0.13	98,98,98,98	0
85	MG	2	1924	1/1	0.69	0.46	83,83,83,83	0
85	MG	1	3632	1/1	0.69	0.28	70,70,70,70	0
85	MG	7	201	1/1	0.69	0.39	47,47,47,47	0
85	MG	2	1972	1/1	0.69	0.30	95,95,95,95	0
85	MG	1	3648	1/1	0.69	0.33	95,95,95,95	0
85	MG	6	1953	1/1	0.69	0.22	63,63,63,63	0
85	MG	6	1938	1/1	0.70	0.39	65,65,65,65	0
85	MG	1	3814	1/1	0.70	0.20	51,51,51,51	0
85	MG	5	3797	1/1	0.70	0.12	174,174,174,174	0
85	MG	3	209	1/1	0.70	0.39	56,56,56,56	0
85	MG	2	1952	1/1	0.70	0.11	108,108,108,108	0
85	MG	5	3825	1/1	0.70	0.16	85,85,85,85	0
85	MG	6	1951	1/1	0.70	0.33	64,64,64,64	0
85	MG	6	2006	1/1	0.71	0.28	69,69,69,69	0
85	MG	2	1992	1/1	0.71	0.15	66,66,66,66	0
85	MG	7	210	1/1	0.71	0.36	51,51,51,51	0
85	MG	5	3713	1/1	0.71	0.32	62,62,62,62	0
85	MG	5	3721	1/1	0.71	0.14	98,98,98,98	0
85	MG	2	1926	1/1	0.71	0.35	92,92,92,92	0
85	MG	5	3681	1/1	0.72	0.39	94,94,94,94	0
85	MG	2	1986	1/1	0.72	0.22	74,74,74,74	0
85	MG	1	3780	1/1	0.72	0.43	49,49,49,49	0
85	MG	1	3544	1/1	0.72	0.22	59,59,59,59	0
85	MG	5	3808	1/1	0.72	0.17	69,69,69,69	0
85	MG	1	3752	1/1	0.72	0.18	106,106,106,106	0
85	MG	6	2021	1/1	0.72	0.14	94,94,94,94	0
85	MG	6	1967	1/1	0.72	0.33	76,76,76,76	0
85	MG	2	1970	1/1	0.73	0.28	69,69,69,69	0
85	MG	6	1993	1/1	0.73	0.35	62,62,62,62	0
85	MG	5	3478	1/1	0.73	0.30	71,71,71,71	0
85	MG	2	1983	1/1	0.73	0.32	74,74,74,74	0
85	MG	6	1918	1/1	0.73	0.36	43,43,43,43	0
85	MG	1	3526	1/1	0.73	0.36	48,48,48,48	0
85	MG	6	2005	1/1	0.73	0.31	80,80,80,80	0
85	MG	2	2018	1/1	0.73	0.27	73,73,73,73	0
85	MG	2	1941	1/1	0.73	0.24	71,71,71,71	0
85	MG	1	3757	1/1	0.73	0.17	52,52,52,52	0
85	MG	5	3877	1/1	0.73	0.15	64,64,64,64	0
85	MG	2	1976	1/1	0.73	0.30	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1950	1/1	0.73	0.41	88,88,88,88	0
85	MG	6	2036	1/1	0.73	0.31	74,74,74,74	0
85	MG	6	1945	1/1	0.73	0.48	73,73,73,73	0
85	MG	2	1978	1/1	0.73	0.39	83,83,83,83	0
86	OHX	1	4186	7/7	0.73	0.20	167,167,167,167	0
85	MG	6	1991	1/1	0.73	0.34	79,79,79,79	0
85	MG	5	3658	1/1	0.74	0.37	61,61,61,61	0
85	MG	5	3799	1/1	0.74	0.26	99,99,99,99	0
85	MG	6	1987	1/1	0.74	0.19	76,76,76,76	0
85	MG	5	3728	1/1	0.74	0.25	73,73,73,73	0
85	MG	L8	301	1/1	0.74	0.20	69,69,69,69	0
85	MG	7	217	1/1	0.74	0.36	74,74,74,74	0
85	MG	m1	201	1/1	0.74	0.42	63,63,63,63	0
85	MG	o4	202	1/1	0.74	0.25	79,79,79,79	0
85	MG	5	3541	1/1	0.74	0.30	78,78,78,78	0
86	OHX	1	4123	7/7	0.74	0.16	180,180,180,180	0
85	MG	S4	301	1/1	0.74	0.18	71,71,71,71	0
85	MG	1	3746	1/1	0.74	0.18	62,62,62,62	0
86	OHX	6	2191	7/7	0.74	0.16	192,192,192,192	0
85	MG	5	3869	1/1	0.74	0.38	46,46,46,46	0
85	MG	6	1976	1/1	0.75	0.27	67,67,67,67	0
85	MG	8	209	1/1	0.75	0.28	87,87,87,87	0
85	MG	1	3856	1/1	0.75	0.20	65,65,65,65	0
85	MG	2	1971	1/1	0.75	0.23	76,76,76,76	0
85	MG	6	1966	1/1	0.75	0.20	82,82,82,82	0
86	OHX	2	2160	7/7	0.75	0.19	162,162,162,162	0
85	MG	6	1990	1/1	0.75	0.31	75,75,75,75	0
85	MG	2	2020	1/1	0.75	0.22	50,50,50,50	0
85	MG	5	3548	1/1	0.75	0.37	60,60,60,60	0
85	MG	c9	201	1/1	0.75	0.17	65,65,65,65	0
86	OHX	5	4229	7/7	0.75	0.16	180,180,180,180	0
85	MG	2	1993	1/1	0.75	0.23	77,77,77,77	0
85	MG	2	1955	1/1	0.76	0.28	72,72,72,72	0
85	MG	1	3761	1/1	0.76	0.20	64,64,64,64	0
85	MG	6	1985	1/1	0.76	0.28	82,82,82,82	0
85	MG	5	3741	1/1	0.76	0.37	47,47,47,47	0
85	MG	5	3744	1/1	0.76	0.35	54,54,54,54	0
85	MG	1	3768	1/1	0.76	0.13	68,68,68,68	0
85	MG	6	1989	1/1	0.76	0.18	88,88,88,88	0
85	MG	8	208	1/1	0.76	0.08	76,76,76,76	0
85	MG	1	3772	1/1	0.76	0.12	68,68,68,68	0
85	MG	2	1929	1/1	0.76	0.38	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3796	1/1	0.76	0.12	77,77,77,77	0
85	MG	2	1908	1/1	0.76	0.24	78,78,78,78	0
85	MG	6	2044	1/1	0.76	0.27	84,84,84,84	0
85	MG	2	1962	1/1	0.76	0.26	76,76,76,76	0
86	OHX	1	4138	7/7	0.76	0.20	167,167,167,167	0
85	MG	2	1931	1/1	0.76	0.35	61,61,61,61	0
85	MG	5	3418	1/1	0.76	0.37	31,31,31,31	0
85	MG	5	3695	1/1	0.76	0.17	72,72,72,72	0
86	OHX	5	4137	7/7	0.76	0.16	178,178,178,178	0
86	OHX	5	4155	7/7	0.76	0.19	161,161,161,161	0
86	OHX	5	4183	7/7	0.76	0.14	195,195,195,195	0
85	MG	1	3839	1/1	0.76	0.20	54,54,54,54	0
85	MG	1	3663	1/1	0.76	0.40	80,80,80,80	0
85	MG	6	1994	1/1	0.77	0.13	56,56,56,56	0
85	MG	2	1935	1/1	0.77	0.31	55,55,55,55	0
85	MG	5	3680	1/1	0.77	0.36	67,67,67,67	0
85	MG	5	3781	1/1	0.77	0.15	61,61,61,61	0
85	MG	2	1946	1/1	0.77	0.18	92,92,92,92	0
85	MG	12	301	1/1	0.77	0.24	43,43,43,43	0
85	MG	1	3703	1/1	0.77	0.16	49,49,49,49	0
85	MG	5	3492	1/1	0.77	0.29	34,34,34,34	0
85	MG	6	2003	1/1	0.77	0.24	74,74,74,74	0
85	MG	5	3706	1/1	0.77	0.23	44,44,44,44	0
85	MG	5	3810	1/1	0.77	0.11	43,43,43,43	0
85	MG	6	1924	1/1	0.77	0.41	46,46,46,46	0
85	MG	5	3719	1/1	0.77	0.22	66,66,66,66	0
85	MG	1	3797	1/1	0.77	0.19	67,67,67,67	0
85	MG	6	2007	1/1	0.77	0.07	64,64,64,64	0
85	MG	5	3858	1/1	0.77	0.24	78,78,78,78	0
85	MG	5	3732	1/1	0.77	0.38	80,80,80,80	0
85	MG	d6	102	1/1	0.77	0.31	71,71,71,71	0
86	OHX	5	4202	7/7	0.77	0.18	172,172,172,172	0
86	OHX	5	4217	7/7	0.77	0.16	179,179,179,179	0
85	MG	6	1934	1/1	0.77	0.24	61,61,61,61	0
85	MG	5	3430	1/1	0.77	0.24	73,73,73,73	0
86	OHX	5	4236	7/7	0.77	0.13	250,250,250,250	0
85	MG	1	3416	1/1	0.78	0.27	44,44,44,44	0
85	MG	6	1933	1/1	0.78	0.33	86,86,86,86	0
86	OHX	2	2149	7/7	0.78	0.13	199,199,199,199	0
86	OHX	2	2159	7/7	0.78	0.15	184,184,184,184	0
85	MG	2	1979	1/1	0.78	0.25	62,62,62,62	0
85	MG	5	3855	1/1	0.78	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	3756	1/1	0.78	0.26	45,45,45,45	0
85	MG	1	4217	1/1	0.78	0.42	47,47,47,47	0
85	MG	6	2206	1/1	0.78	0.22	80,80,80,80	0
86	OHX	6	2183	7/7	0.78	0.15	177,177,177,177	0
85	MG	5	3498	1/1	0.78	0.31	29,29,29,29	0
85	MG	1	3581	1/1	0.78	0.37	48,48,48,48	0
85	MG	6	1940	1/1	0.78	0.30	60,60,60,60	0
86	OHX	5	4160	7/7	0.78	0.15	208,208,208,208	0
85	MG	5	3710	1/1	0.78	0.26	48,48,48,48	0
85	MG	1	3636	1/1	0.78	0.23	55,55,55,55	0
85	MG	5	3599	1/1	0.78	0.17	53,53,53,53	0
85	MG	6	2031	1/1	0.78	0.17	67,67,67,67	0
85	MG	5	3448	1/1	0.78	0.16	52,52,52,52	0
85	MG	3	215	1/1	0.78	0.28	46,46,46,46	0
86	OHX	m4	202	7/7	0.78	0.12	223,223,223,223	0
85	MG	1	3426	1/1	0.79	0.15	44,44,44,44	0
85	MG	6	2028	1/1	0.79	0.42	80,80,80,80	0
85	MG	1	3597	1/1	0.79	0.15	31,31,31,31	0
85	MG	6	2030	1/1	0.79	0.18	93,93,93,93	0
85	MG	Q2	502	1/1	0.79	0.19	77,77,77,77	0
85	MG	1	3845	1/1	0.79	0.13	115,115,115,115	0
85	MG	5	3506	1/1	0.79	0.34	41,41,41,41	0
85	MG	5	3512	1/1	0.79	0.26	51,51,51,51	0
85	MG	1	3483	1/1	0.79	0.26	50,50,50,50	0
86	OHX	M9	202	7/7	0.79	0.13	185,185,185,185	0
86	OHX	6	2136	7/7	0.79	0.16	168,168,168,168	0
85	MG	SM	301	1/1	0.79	0.33	55,55,55,55	0
85	MG	5	3739	1/1	0.79	0.33	68,68,68,68	0
85	MG	2	1932	1/1	0.79	0.28	68,68,68,68	0
85	MG	6	2001	1/1	0.79	0.19	58,58,58,58	0
85	MG	6	1942	1/1	0.79	0.32	42,42,42,42	0
85	MG	6	1910	1/1	0.79	0.32	55,55,55,55	0
85	MG	5	3645	1/1	0.79	0.21	103,103,103,103	0
86	OHX	5	4214	7/7	0.79	0.17	165,165,165,165	0
85	MG	2	1989	1/1	0.79	0.39	61,61,61,61	0
85	MG	3	214	1/1	0.79	0.43	49,49,49,49	0
85	MG	1	3575	1/1	0.79	0.30	24,24,24,24	0
85	MG	2	1975	1/1	0.79	0.39	77,77,77,77	0
86	OHX	m1	202	7/7	0.79	0.16	180,180,180,180	0
85	MG	6	2020	1/1	0.79	0.12	128,128,128,128	0
85	MG	6	1997	1/1	0.80	0.13	73,73,73,73	0
85	MG	6	2035	1/1	0.80	0.11	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1901	1/1	0.80	0.39	77,77,77,77	0
85	MG	2	1964	1/1	0.80	0.24	96,96,96,96	0
85	MG	1	3596	1/1	0.80	0.28	43,43,43,43	0
85	MG	1	3435	1/1	0.80	0.24	51,51,51,51	0
86	OHX	1	4172	7/7	0.80	0.15	177,177,177,177	0
85	MG	1	3466	1/1	0.80	0.26	45,45,45,45	0
85	MG	D4	201	1/1	0.80	0.34	72,72,72,72	0
86	OHX	1	4188	7/7	0.80	0.13	176,176,176,176	0
85	MG	2	1957	1/1	0.80	0.24	79,79,79,79	0
85	MG	5	3624	1/1	0.80	0.25	69,69,69,69	0
85	MG	5	3405	1/1	0.80	0.18	57,57,57,57	0
85	MG	1	3410	1/1	0.80	0.29	51,51,51,51	0
85	MG	6	1954	1/1	0.80	0.42	42,42,42,42	0
85	MG	5	3438	1/1	0.80	0.43	47,47,47,47	0
85	MG	6	1929	1/1	0.80	0.21	66,66,66,66	0
85	MG	5	3773	1/1	0.80	0.12	81,81,81,81	0
86	OHX	5	4191	7/7	0.80	0.14	190,190,190,190	0
85	MG	8	207	1/1	0.80	0.24	62,62,62,62	0
85	MG	N3	203	1/1	0.80	0.11	41,41,41,41	0
85	MG	2	1958	1/1	0.80	0.31	90,90,90,90	0
86	OHX	5	4223	7/7	0.80	0.21	152,152,152,152	0
85	MG	1	3848	1/1	0.80	0.32	51,51,51,51	0
85	MG	5	3472	1/1	0.80	0.42	40,40,40,40	0
85	MG	m4	201	1/1	0.80	0.19	49,49,49,49	0
85	MG	m5	301	1/1	0.80	0.12	42,42,42,42	0
85	MG	2	1974	1/1	0.80	0.19	71,71,71,71	0
86	OHX	m7	207	7/7	0.80	0.17	160,160,160,160	0
85	MG	5	3633	1/1	0.81	0.12	45,45,45,45	0
85	MG	1	3666	1/1	0.81	0.12	89,89,89,89	0
85	MG	1	3827	1/1	0.81	0.32	45,45,45,45	0
85	MG	5	3793	1/1	0.81	0.11	78,78,78,78	0
85	MG	5	3671	1/1	0.81	0.18	52,52,52,52	0
85	MG	4	204	1/1	0.81	0.27	79,79,79,79	0
86	OHX	2	2163	7/7	0.81	0.14	183,183,183,183	0
86	OHX	2	2175	7/7	0.81	0.13	198,198,198,198	0
86	OHX	2	2176	7/7	0.81	0.15	169,169,169,169	0
86	OHX	2	2180	7/7	0.81	0.16	186,186,186,186	0
85	MG	5	3465	1/1	0.81	0.25	60,60,60,60	0
85	MG	5	3803	1/1	0.81	0.17	76,76,76,76	0
85	MG	6	1968	1/1	0.81	0.21	64,64,64,64	0
86	OHX	1	4174	7/7	0.81	0.15	177,177,177,177	0
85	MG	4	222	1/1	0.81	0.24	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3686	1/1	0.81	0.26	69,69,69,69	0
85	MG	2	1943	1/1	0.81	0.23	74,74,74,74	0
86	OHX	1	4191	7/7	0.81	0.15	165,165,165,165	0
85	MG	2	1949	1/1	0.81	0.23	59,59,59,59	0
85	MG	5	3479	1/1	0.81	0.07	46,46,46,46	0
85	MG	6	2038	1/1	0.81	0.34	96,96,96,96	0
85	MG	1	3473	1/1	0.81	0.30	79,79,79,79	0
85	MG	1	3401	1/1	0.81	0.41	42,42,42,42	0
85	MG	1	3793	1/1	0.81	0.22	89,89,89,89	0
85	MG	6	1959	1/1	0.81	0.40	47,47,47,47	0
85	MG	6	2011	1/1	0.81	0.31	65,65,65,65	0
86	OHX	5	4190	7/7	0.81	0.18	165,165,165,165	0
85	MG	1	3583	1/1	0.81	0.37	33,33,33,33	0
85	MG	sM	301	1/1	0.81	0.17	51,51,51,51	0
85	MG	5	3558	1/1	0.81	0.30	36,36,36,36	0
85	MG	7	211	1/1	0.81	0.34	43,43,43,43	0
86	OHX	5	4219	7/7	0.81	0.16	176,176,176,176	0
85	MG	5	3598	1/1	0.81	0.24	48,48,48,48	0
86	OHX	5	4225	7/7	0.81	0.15	177,177,177,177	0
85	MG	2	1991	1/1	0.81	0.19	100,100,100,100	0
85	MG	5	3415	1/1	0.81	0.24	56,56,56,56	0
85	MG	5	3757	1/1	0.81	0.31	49,49,49,49	0
86	OHX	14	403	7/7	0.81	0.16	175,175,175,175	0
85	MG	1	3493	1/1	0.81	0.24	48,48,48,48	0
85	MG	5	3765	1/1	0.81	0.10	79,79,79,79	0
85	MG	6	2022	1/1	0.81	0.25	83,83,83,83	0
85	MG	7	216	1/1	0.82	0.24	74,74,74,74	0
85	MG	5	3592	1/1	0.82	0.38	44,44,44,44	0
86	OHX	1	4190	7/7	0.82	0.16	165,165,165,165	0
85	MG	1	3630	1/1	0.82	0.19	79,79,79,79	0
86	OHX	1	4198	7/7	0.82	0.19	160,160,160,160	0
85	MG	1	3408	1/1	0.82	0.27	30,30,30,30	0
85	MG	1	3485	1/1	0.82	0.28	41,41,41,41	0
85	MG	1	3454	1/1	0.82	0.42	63,63,63,63	0
86	OHX	6	2185	7/7	0.82	0.12	203,203,203,203	0
85	MG	L2	301	1/1	0.82	0.17	40,40,40,40	0
86	OHX	6	2199	7/7	0.82	0.16	178,178,178,178	0
85	MG	L4	401	1/1	0.82	0.11	98,98,98,98	0
86	OHX	5	4149	7/7	0.82	0.20	146,146,146,146	0
85	MG	5	3636	1/1	0.82	0.31	70,70,70,70	0
85	MG	2	2001	1/1	0.82	0.25	91,91,91,91	0
85	MG	1	3522	1/1	0.82	0.22	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	1	3593	1/1	0.82	0.32	30,30,30,30	0
85	MG	M7	204	1/1	0.82	0.17	42,42,42,42	0
85	MG	5	3857	1/1	0.82	0.20	58,58,58,58	0
85	MG	6	2026	1/1	0.82	0.25	88,88,88,88	0
86	OHX	2	2164	7/7	0.82	0.16	172,172,172,172	0
85	MG	5	3866	1/1	0.82	0.23	34,34,34,34	0
85	MG	1	3853	1/1	0.82	0.11	153,153,153,153	0
86	OHX	2	2177	7/7	0.82	0.13	202,202,202,202	0
86	OHX	5	4226	7/7	0.82	0.17	154,154,154,154	0
85	MG	2	1982	1/1	0.82	0.30	76,76,76,76	0
85	MG	5	3536	1/1	0.82	0.27	38,38,38,38	0
86	OHX	5	4234	7/7	0.82	0.14	171,171,171,171	0
86	OHX	5	4235	7/7	0.82	0.14	204,204,204,204	0
85	MG	1	3542	1/1	0.82	0.25	51,51,51,51	0
85	MG	5	3698	1/1	0.82	0.23	64,64,64,64	0
85	MG	1	3543	1/1	0.82	0.28	57,57,57,57	0
86	OHX	1	4176	7/7	0.82	0.15	165,165,165,165	0
85	MG	1	3613	1/1	0.82	0.28	66,66,66,66	0
86	OHX	1	4185	7/7	0.83	0.16	155,155,155,155	0
85	MG	6	1911	1/1	0.83	0.27	87,87,87,87	0
85	MG	5	3634	1/1	0.83	0.31	39,39,39,39	0
85	MG	6	2043	1/1	0.83	0.14	52,52,52,52	0
85	MG	1	3626	1/1	0.83	0.09	65,65,65,65	0
86	OHX	1	4197	7/7	0.83	0.16	162,162,162,162	0
85	MG	1	3469	1/1	0.83	0.13	48,48,48,48	0
86	OHX	4	236	7/7	0.83	0.14	166,166,166,166	0
85	MG	6	1921	1/1	0.83	0.39	62,62,62,62	0
85	MG	5	3772	1/1	0.83	0.34	82,82,82,82	0
86	OHX	6	2148	7/7	0.83	0.15	157,157,157,157	0
86	OHX	6	2156	7/7	0.83	0.11	203,203,203,203	0
86	OHX	6	2178	7/7	0.83	0.14	171,171,171,171	0
85	MG	8	204	1/1	0.83	0.26	60,60,60,60	0
85	MG	M0	301	1/1	0.83	0.13	88,88,88,88	0
85	MG	5	3502	1/1	0.83	0.34	61,61,61,61	0
85	MG	2	1995	1/1	0.83	0.26	57,57,57,57	0
86	OHX	s1	303	7/7	0.83	0.14	180,180,180,180	0
86	OHX	s9	201	7/7	0.83	0.17	160,160,160,160	0
85	MG	5	3510	1/1	0.83	0.24	63,63,63,63	0
85	MG	14	401	1/1	0.83	0.10	59,59,59,59	0
85	MG	1	3707	1/1	0.83	0.20	43,43,43,43	0
85	MG	5	3688	1/1	0.83	0.10	48,48,48,48	0
85	MG	6	2023	1/1	0.83	0.20	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3532	1/1	0.83	0.25	44,44,44,44	0
85	MG	5	3411	1/1	0.83	0.21	45,45,45,45	0
86	OHX	2	2127	7/7	0.83	0.14	174,174,174,174	0
86	OHX	5	4208	7/7	0.83	0.14	175,175,175,175	0
85	MG	1	3710	1/1	0.83	0.37	78,78,78,78	0
86	OHX	5	4216	7/7	0.83	0.15	165,165,165,165	0
85	MG	1	3476	1/1	0.83	0.22	44,44,44,44	0
85	MG	2	2008	1/1	0.83	0.44	55,55,55,55	0
86	OHX	5	4220	7/7	0.83	0.14	177,177,177,177	0
85	MG	5	3822	1/1	0.83	0.33	68,68,68,68	0
85	MG	5	3572	1/1	0.83	0.39	41,41,41,41	0
85	MG	1	3643	1/1	0.83	0.28	76,76,76,76	0
85	MG	5	3836	1/1	0.83	0.23	53,53,53,53	0
85	MG	6	1903	1/1	0.83	0.24	45,45,45,45	0
85	MG	5	3724	1/1	0.83	0.20	57,57,57,57	0
85	MG	1	3414	1/1	0.83	0.27	39,39,39,39	0
85	MG	5	3619	1/1	0.83	0.23	48,48,48,48	0
86	OHX	5	4239	7/7	0.83	0.13	193,193,193,193	0
86	OHX	5	4244	7/7	0.83	0.15	157,157,157,157	0
86	OHX	5	4245	7/7	0.83	0.15	175,175,175,175	0
86	OHX	14	402	7/7	0.83	0.13	182,182,182,182	0
85	MG	5	3863	1/1	0.83	0.32	43,43,43,43	0
85	MG	2	1938	1/1	0.83	0.30	67,67,67,67	0
85	MG	1	3842	1/1	0.83	0.12	40,40,40,40	0
85	MG	1	3407	1/1	0.83	0.18	51,51,51,51	0
85	MG	5	3641	1/1	0.84	0.29	43,43,43,43	0
85	MG	4	212	1/1	0.84	0.17	62,62,62,62	0
86	OHX	M7	207	7/7	0.84	0.16	159,159,159,159	0
85	MG	5	3655	1/1	0.84	0.12	51,51,51,51	0
85	MG	2	2017	1/1	0.84	0.41	83,83,83,83	0
85	MG	5	3500	1/1	0.84	0.19	48,48,48,48	0
85	MG	2	1999	1/1	0.84	0.24	79,79,79,79	0
86	OHX	6	2172	7/7	0.84	0.14	165,165,165,165	0
85	MG	l5	302	1/1	0.84	0.19	71,71,71,71	0
85	MG	l5	303	1/1	0.84	0.16	63,63,63,63	0
85	MG	5	3504	1/1	0.84	0.28	37,37,37,37	0
86	OHX	6	2188	7/7	0.84	0.15	170,170,170,170	0
86	OHX	6	2189	7/7	0.84	0.14	176,176,176,176	0
85	MG	s1	301	1/1	0.84	0.15	93,93,93,93	0
86	OHX	6	2193	7/7	0.84	0.12	209,209,209,209	0
85	MG	5	3507	1/1	0.84	0.33	38,38,38,38	0
86	OHX	6	2204	7/7	0.84	0.14	173,173,173,173	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	m7	204	1/1	0.84	0.12	40,40,40,40	0
85	MG	1	3496	1/1	0.84	0.23	42,42,42,42	0
86	OHX	5	4135	7/7	0.84	0.13	173,173,173,173	0
85	MG	1	3720	1/1	0.84	0.12	50,50,50,50	0
86	OHX	2	2099	7/7	0.84	0.14	170,170,170,170	0
85	MG	1	3471	1/1	0.84	0.14	37,37,37,37	0
85	MG	1	3841	1/1	0.84	0.14	51,51,51,51	0
85	MG	5	3700	1/1	0.84	0.19	60,60,60,60	0
85	MG	5	3701	1/1	0.84	0.27	50,50,50,50	0
86	OHX	2	2161	7/7	0.84	0.14	175,175,175,175	0
86	OHX	5	4200	7/7	0.84	0.15	162,162,162,162	0
86	OHX	5	4201	7/7	0.84	0.14	181,181,181,181	0
85	MG	1	3472	1/1	0.84	0.23	28,28,28,28	0
85	MG	2	1942	1/1	0.84	0.15	80,80,80,80	0
85	MG	1	3654	1/1	0.84	0.27	45,45,45,45	0
85	MG	1	3657	1/1	0.84	0.15	68,68,68,68	0
85	MG	5	3433	1/1	0.84	0.16	86,86,86,86	0
85	MG	2	1907	1/1	0.84	0.35	48,48,48,48	0
86	OHX	1	4122	7/7	0.84	0.14	167,167,167,167	0
85	MG	5	3593	1/1	0.84	0.34	36,36,36,36	0
85	MG	5	3597	1/1	0.84	0.23	44,44,44,44	0
86	OHX	1	4156	7/7	0.84	0.13	176,176,176,176	0
86	OHX	1	4166	7/7	0.84	0.13	179,179,179,179	0
86	OHX	1	4167	7/7	0.84	0.15	176,176,176,176	0
85	MG	1	3855	1/1	0.84	0.40	72,72,72,72	0
85	MG	2	1956	1/1	0.84	0.16	59,59,59,59	0
85	MG	1	3770	1/1	0.84	0.20	61,61,61,61	0
86	OHX	1	4182	7/7	0.84	0.14	180,180,180,180	0
86	OHX	5	4241	7/7	0.84	0.15	177,177,177,177	0
86	OHX	5	4242	7/7	0.84	0.16	175,175,175,175	0
85	MG	5	3622	1/1	0.84	0.26	64,64,64,64	0
85	MG	1	3623	1/1	0.84	0.27	36,36,36,36	0
86	OHX	8	225	7/7	0.84	0.15	162,162,162,162	0
85	MG	1	3672	1/1	0.84	0.17	68,68,68,68	0
85	MG	1	3786	1/1	0.84	0.14	58,58,58,58	0
86	OHX	l5	306	7/7	0.84	0.14	170,170,170,170	0
85	MG	1	3456	1/1	0.84	0.24	46,46,46,46	0
85	MG	4	201	1/1	0.84	0.18	61,61,61,61	0
85	MG	1	3696	1/1	0.84	0.24	49,49,49,49	0
87	ZN	D7	101	1/1	0.84	0.19	176,176,176,176	0
86	OHX	1	4203	7/7	0.85	0.17	151,151,151,151	0
85	MG	5	3770	1/1	0.85	0.31	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	L4	404	7/7	0.85	0.14	160,160,160,160	0
85	MG	2	1997	1/1	0.85	0.15	93,93,93,93	0
85	MG	S8	301	1/1	0.85	0.21	68,68,68,68	0
86	OHX	6	2106	7/7	0.85	0.15	151,151,151,151	0
85	MG	6	2041	1/1	0.85	0.22	72,72,72,72	0
85	MG	5	3669	1/1	0.85	0.19	68,68,68,68	0
85	MG	1	3557	1/1	0.85	0.33	39,39,39,39	0
86	OHX	6	2170	7/7	0.85	0.13	176,176,176,176	0
85	MG	1	3659	1/1	0.85	0.16	48,48,48,48	0
86	OHX	6	2174	7/7	0.85	0.17	161,161,161,161	0
85	MG	1	3605	1/1	0.85	0.36	69,69,69,69	0
85	MG	m6	201	1/1	0.85	0.12	32,32,32,32	0
86	OHX	6	2184	7/7	0.85	0.14	164,164,164,164	0
85	MG	6	1956	1/1	0.85	0.42	60,60,60,60	0
86	OHX	6	2186	7/7	0.85	0.14	166,166,166,166	0
85	MG	1	3612	1/1	0.85	0.13	47,47,47,47	0
85	MG	c4	201	1/1	0.85	0.24	58,58,58,58	0
85	MG	c8	201	1/1	0.85	0.50	68,68,68,68	0
86	OHX	2	2115	7/7	0.85	0.12	178,178,178,178	0
85	MG	5	3692	1/1	0.85	0.25	66,66,66,66	0
86	OHX	6	2203	7/7	0.85	0.17	173,173,173,173	0
86	OHX	2	2134	7/7	0.85	0.15	157,157,157,157	0
86	OHX	2	2137	7/7	0.85	0.13	182,182,182,182	0
86	OHX	2	2139	7/7	0.85	0.14	192,192,192,192	0
86	OHX	5	4038	7/7	0.85	0.53	120,120,120,120	0
86	OHX	2	2147	7/7	0.85	0.12	205,205,205,205	0
85	MG	3	211	1/1	0.85	0.27	69,69,69,69	0
85	MG	1	3571	1/1	0.85	0.31	38,38,38,38	0
85	MG	1	3617	1/1	0.85	0.32	50,50,50,50	0
85	MG	1	3787	1/1	0.85	0.73	48,48,48,48	0
86	OHX	5	4174	7/7	0.85	0.13	177,177,177,177	0
86	OHX	5	4178	7/7	0.85	0.13	168,168,168,168	0
85	MG	5	3408	1/1	0.85	0.10	46,46,46,46	0
85	MG	1	3692	1/1	0.85	0.12	52,52,52,52	0
85	MG	5	3851	1/1	0.85	0.08	50,50,50,50	0
86	OHX	5	4199	7/7	0.85	0.14	160,160,160,160	0
85	MG	1	3619	1/1	0.85	0.11	48,48,48,48	0
85	MG	5	3589	1/1	0.85	0.29	48,48,48,48	0
86	OHX	2	2179	7/7	0.85	0.16	168,168,168,168	0
86	OHX	5	4205	7/7	0.85	0.15	167,167,167,167	0
85	MG	1	3517	1/1	0.85	0.39	22,22,22,22	0
86	OHX	5	4209	7/7	0.85	0.18	141,141,141,141	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4091	7/7	0.85	0.12	165,165,165,165	0
86	OHX	1	4096	7/7	0.85	0.12	181,181,181,181	0
85	MG	5	3860	1/1	0.85	0.17	48,48,48,48	0
85	MG	6	1969	1/1	0.85	0.10	65,65,65,65	0
86	OHX	1	4136	7/7	0.85	0.14	156,156,156,156	0
86	OHX	1	4137	7/7	0.85	0.17	154,154,154,154	0
85	MG	1	3701	1/1	0.85	0.14	54,54,54,54	0
85	MG	5	3434	1/1	0.85	0.26	38,38,38,38	0
85	MG	1	3578	1/1	0.85	0.16	55,55,55,55	0
85	MG	1	3705	1/1	0.85	0.17	51,51,51,51	0
86	OHX	1	4168	7/7	0.85	0.16	162,162,162,162	0
85	MG	1	3428	1/1	0.85	0.35	37,37,37,37	0
85	MG	5	3461	1/1	0.85	0.15	37,37,37,37	0
85	MG	7	202	1/1	0.85	0.26	52,52,52,52	0
86	OHX	1	4179	7/7	0.85	0.15	157,157,157,157	0
85	MG	7	206	1/1	0.85	0.28	26,26,26,26	0
85	MG	5	3627	1/1	0.85	0.39	84,84,84,84	0
85	MG	6	1936	1/1	0.85	0.36	43,43,43,43	0
86	OHX	7	229	7/7	0.85	0.14	156,156,156,156	0
85	MG	7	215	1/1	0.85	0.18	44,44,44,44	0
85	MG	2	2010	1/1	0.85	0.45	68,68,68,68	0
85	MG	1	3539	1/1	0.85	0.24	29,29,29,29	0
85	MG	1	3587	1/1	0.85	0.30	46,46,46,46	0
86	OHX	1	4195	7/7	0.85	0.15	156,156,156,156	0
85	MG	1	3640	1/1	0.85	0.18	45,45,45,45	0
85	MG	2	2011	1/1	0.85	0.31	67,67,67,67	0
86	OHX	1	4200	7/7	0.85	0.14	162,162,162,162	0
87	ZN	d7	101	1/1	0.85	0.14	160,160,160,160	0
85	MG	l3	402	1/1	0.86	0.14	59,59,59,59	0
86	OHX	1	4204	7/7	0.86	0.15	158,158,158,158	0
86	OHX	4	235	7/7	0.86	0.13	168,168,168,168	0
85	MG	l3	403	1/1	0.86	0.49	39,39,39,39	0
86	OHX	L3	406	7/7	0.86	0.12	175,175,175,175	0
85	MG	1	3514	1/1	0.86	0.33	30,30,30,30	0
85	MG	6	1957	1/1	0.86	0.36	64,64,64,64	0
85	MG	6	1999	1/1	0.86	0.12	65,65,65,65	0
85	MG	6	2205	1/1	0.86	0.38	65,65,65,65	0
85	MG	1	3616	1/1	0.86	0.19	69,69,69,69	0
85	MG	1	3515	1/1	0.86	0.31	38,38,38,38	0
85	MG	5	3780	1/1	0.86	0.12	43,43,43,43	0
86	OHX	6	2167	7/7	0.86	0.10	194,194,194,194	0
85	MG	5	3656	1/1	0.86	0.24	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	5	3789	1/1	0.86	0.12	82,82,82,82	0
85	MG	1	3840	1/1	0.86	0.28	59,59,59,59	0
86	OHX	6	2175	7/7	0.86	0.13	181,181,181,181	0
85	MG	q0	3601	1/1	0.86	0.13	63,63,63,63	0
86	OHX	6	2181	7/7	0.86	0.16	167,167,167,167	0
85	MG	q1	101	1/1	0.86	0.29	50,50,50,50	0
85	MG	5	3660	1/1	0.86	0.15	44,44,44,44	0
85	MG	5	3666	1/1	0.86	0.13	39,39,39,39	0
86	OHX	2	2124	7/7	0.86	0.12	172,172,172,172	0
85	MG	1	3580	1/1	0.86	0.31	43,43,43,43	0
85	MG	5	3800	1/1	0.86	0.08	42,42,42,42	0
86	OHX	6	2190	7/7	0.86	0.13	174,174,174,174	0
85	MG	5	3670	1/1	0.86	0.18	48,48,48,48	0
85	MG	2	1923	1/1	0.86	0.36	61,61,61,61	0
85	MG	1	3405	1/1	0.86	0.33	96,96,96,96	0
86	OHX	6	2200	7/7	0.86	0.14	174,174,174,174	0
86	OHX	2	2148	7/7	0.86	0.17	144,144,144,144	0
85	MG	1	3457	1/1	0.86	0.14	66,66,66,66	0
86	OHX	2	2153	7/7	0.86	0.12	186,186,186,186	0
85	MG	5	3514	1/1	0.86	0.22	43,43,43,43	0
85	MG	5	3519	1/1	0.86	0.24	40,40,40,40	0
85	MG	2	1906	1/1	0.86	0.21	62,62,62,62	0
86	OHX	2	2162	7/7	0.86	0.13	190,190,190,190	0
85	MG	5	3687	1/1	0.86	0.09	49,49,49,49	0
85	MG	5	3530	1/1	0.86	0.32	35,35,35,35	0
86	OHX	2	2172	7/7	0.86	0.14	174,174,174,174	0
85	MG	5	3847	1/1	0.86	0.13	83,83,83,83	0
85	MG	1	3633	1/1	0.86	0.31	71,71,71,71	0
86	OHX	5	4179	7/7	0.86	0.16	141,141,141,141	0
85	MG	6	1970	1/1	0.86	0.10	72,72,72,72	0
85	MG	5	3852	1/1	0.86	0.14	100,100,100,100	0
85	MG	1	3777	1/1	0.86	0.22	63,63,63,63	0
86	OHX	1	4058	7/7	0.86	0.15	154,154,154,154	0
85	MG	5	3543	1/1	0.86	0.29	53,53,53,53	0
85	MG	1	3486	1/1	0.86	0.21	35,35,35,35	0
86	OHX	1	4107	7/7	0.86	0.15	167,167,167,167	0
86	OHX	1	4121	7/7	0.86	0.17	143,143,143,143	0
86	OHX	5	4207	7/7	0.86	0.14	164,164,164,164	0
85	MG	5	3554	1/1	0.86	0.14	36,36,36,36	0
85	MG	1	3785	1/1	0.86	0.07	66,66,66,66	0
86	OHX	1	4134	7/7	0.86	0.13	166,166,166,166	0
85	MG	6	2027	1/1	0.86	0.28	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3588	1/1	0.86	0.34	39,39,39,39	0
85	MG	5	3871	1/1	0.86	0.21	28,28,28,28	0
86	OHX	1	4145	7/7	0.86	0.13	173,173,173,173	0
86	OHX	5	4221	7/7	0.86	0.14	167,167,167,167	0
86	OHX	1	4149	7/7	0.86	0.14	168,168,168,168	0
85	MG	5	3873	1/1	0.86	0.09	32,32,32,32	0
86	OHX	1	4165	7/7	0.86	0.16	141,141,141,141	0
85	MG	5	3874	1/1	0.86	0.19	56,56,56,56	0
85	MG	2	1905	1/1	0.86	0.34	70,70,70,70	0
86	OHX	5	4232	7/7	0.86	0.15	175,175,175,175	0
85	MG	1	3704	1/1	0.86	0.09	63,63,63,63	0
85	MG	5	3443	1/1	0.86	0.23	33,33,33,33	0
85	MG	2	2013	1/1	0.86	0.28	57,57,57,57	0
86	OHX	5	4237	7/7	0.86	0.16	162,162,162,162	0
85	MG	5	3725	1/1	0.86	0.08	41,41,41,41	0
85	MG	7	205	1/1	0.86	0.14	75,75,75,75	0
85	MG	5	3726	1/1	0.86	0.27	60,60,60,60	0
85	MG	6	1948	1/1	0.86	0.33	59,59,59,59	0
85	MG	6	1908	1/1	0.86	0.27	56,56,56,56	0
86	OHX	7	227	7/7	0.86	0.14	171,171,171,171	0
85	MG	5	3611	1/1	0.86	0.24	59,59,59,59	0
85	MG	2	1912	1/1	0.86	0.26	71,71,71,71	0
85	MG	1	3568	1/1	0.86	0.33	43,43,43,43	0
85	MG	6	1952	1/1	0.86	0.35	64,64,64,64	0
86	OHX	15	305	7/7	0.86	0.14	166,166,166,166	0
86	OHX	1	4192	7/7	0.86	0.12	183,183,183,183	0
85	MG	5	3470	1/1	0.86	0.28	44,44,44,44	0
86	OHX	1	4196	7/7	0.86	0.14	175,175,175,175	0
85	MG	1	3513	1/1	0.86	0.35	41,41,41,41	0
85	MG	5	3760	1/1	0.86	0.42	43,43,43,43	0
85	MG	6	1916	1/1	0.86	0.25	65,65,65,65	0
86	OHX	1	4090	7/7	0.87	0.14	158,158,158,158	0
85	MG	2	1947	1/1	0.87	0.33	54,54,54,54	0
85	MG	5	3675	1/1	0.87	0.25	54,54,54,54	0
85	MG	6	1978	1/1	0.87	0.29	53,53,53,53	0
85	MG	5	3787	1/1	0.87	0.16	62,62,62,62	0
85	MG	5	3788	1/1	0.87	0.09	57,57,57,57	0
85	MG	2	1913	1/1	0.87	0.38	78,78,78,78	0
86	OHX	1	4125	7/7	0.87	0.13	165,165,165,165	0
86	OHX	1	4130	7/7	0.87	0.14	134,134,134,134	0
85	MG	5	3550	1/1	0.87	0.14	49,49,49,49	0
85	MG	1	3854	1/1	0.87	0.22	56,56,56,56	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	0.87	0.16	90,90,90,90	0
85	MG	8	210	1/1	0.87	0.26	65,65,65,65	0
85	MG	5	3567	1/1	0.87	0.26	37,37,37,37	0
86	OHX	1	4146	7/7	0.87	0.11	180,180,180,180	0
86	OHX	5	4134	7/7	0.87	0.17	155,155,155,155	0
85	MG	5	3571	1/1	0.87	0.24	37,37,37,37	0
86	OHX	5	4136	7/7	0.87	0.15	160,160,160,160	0
86	OHX	1	4154	7/7	0.87	0.12	176,176,176,176	0
85	MG	1	3631	1/1	0.87	0.17	70,70,70,70	0
86	OHX	5	4154	7/7	0.87	0.17	137,137,137,137	0
86	OHX	1	4164	7/7	0.87	0.15	137,137,137,137	0
86	OHX	5	4159	7/7	0.87	0.12	172,172,172,172	0
85	MG	1	3721	1/1	0.87	0.15	48,48,48,48	0
85	MG	5	3462	1/1	0.87	0.10	53,53,53,53	0
85	MG	1	3600	1/1	0.87	0.22	40,40,40,40	0
85	MG	1	3528	1/1	0.87	0.24	79,79,79,79	0
86	OHX	5	4182	7/7	0.87	0.16	144,144,144,144	0
85	MG	3	207	1/1	0.87	0.35	53,53,53,53	0
85	MG	5	3823	1/1	0.87	0.15	86,86,86,86	0
85	MG	m5	302	1/1	0.87	0.13	56,56,56,56	0
85	MG	1	3802	1/1	0.87	0.18	47,47,47,47	0
86	OHX	1	4181	7/7	0.87	0.16	160,160,160,160	0
85	MG	1	3807	1/1	0.87	0.12	45,45,45,45	0
85	MG	m7	206	1/1	0.87	0.27	58,58,58,58	0
86	OHX	5	4203	7/7	0.87	0.11	192,192,192,192	0
86	OHX	1	4184	7/7	0.87	0.14	164,164,164,164	0
85	MG	n6	202	1/1	0.87	0.35	47,47,47,47	0
85	MG	5	3830	1/1	0.87	0.19	44,44,44,44	0
85	MG	5	3832	1/1	0.87	0.16	55,55,55,55	0
86	OHX	5	4213	7/7	0.87	0.13	165,165,165,165	0
85	MG	5	3835	1/1	0.87	0.17	60,60,60,60	0
86	OHX	5	4215	7/7	0.87	0.09	204,204,204,204	0
85	MG	5	3473	1/1	0.87	0.27	60,60,60,60	0
85	MG	5	3842	1/1	0.87	0.27	74,74,74,74	0
86	OHX	5	4218	7/7	0.87	0.12	170,170,170,170	0
85	MG	3	213	1/1	0.87	0.24	59,59,59,59	0
85	MG	1	3676	1/1	0.87	0.19	64,64,64,64	0
85	MG	1	3683	1/1	0.87	0.18	103,103,103,103	0
86	OHX	5	4222	7/7	0.87	0.12	184,184,184,184	0
85	MG	1	3531	1/1	0.87	0.11	37,37,37,37	0
85	MG	1	3829	1/1	0.87	0.16	57,57,57,57	0
86	OHX	1	4201	7/7	0.87	0.15	158,158,158,158	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3508	1/1	0.87	0.18	39,39,39,39	0
86	OHX	2	2140	7/7	0.87	0.14	173,173,173,173	0
85	MG	1	3427	1/1	0.87	0.24	56,56,56,56	0
85	MG	5	3859	1/1	0.87	0.11	51,51,51,51	0
85	MG	6	1963	1/1	0.87	0.23	58,58,58,58	0
85	MG	5	3862	1/1	0.87	0.26	51,51,51,51	0
85	MG	1	3403	1/1	0.87	0.15	41,41,41,41	0
85	MG	5	3638	1/1	0.87	0.16	59,59,59,59	0
85	MG	L3	404	1/1	0.87	0.17	57,57,57,57	0
86	OHX	6	2134	7/7	0.87	0.12	153,153,153,153	0
85	MG	2	1973	1/1	0.87	0.19	75,75,75,75	0
85	MG	L4	403	1/1	0.87	0.22	36,36,36,36	0
86	OHX	6	2150	7/7	0.87	0.13	172,172,172,172	0
85	MG	2	1967	1/1	0.87	0.33	62,62,62,62	0
86	OHX	6	2160	7/7	0.87	0.15	158,158,158,158	0
85	MG	1	3565	1/1	0.87	0.21	35,35,35,35	0
85	MG	5	3764	1/1	0.87	0.16	79,79,79,79	0
85	MG	5	3522	1/1	0.87	0.32	28,28,28,28	0
85	MG	6	1935	1/1	0.87	0.21	86,86,86,86	0
85	MG	1	3846	1/1	0.87	0.14	33,33,33,33	0
85	MG	5	3420	1/1	0.87	0.10	124,124,124,124	0
86	OHX	6	2179	7/7	0.87	0.12	174,174,174,174	0
85	MG	6	1975	1/1	0.87	0.14	68,68,68,68	0
86	OHX	1	4083	7/7	0.87	0.17	150,150,150,150	0
85	MG	2	1965	1/1	0.88	0.30	51,51,51,51	0
85	MG	2	1904	1/1	0.88	0.30	55,55,55,55	0
85	MG	5	3586	1/1	0.88	0.30	71,71,71,71	0
85	MG	6	1973	1/1	0.88	0.17	70,70,70,70	0
85	MG	5	3716	1/1	0.88	0.14	55,55,55,55	0
85	MG	1	3649	1/1	0.88	0.10	66,66,66,66	0
86	OHX	2	2169	7/7	0.88	0.13	182,182,182,182	0
86	OHX	2	2171	7/7	0.88	0.13	167,167,167,167	0
85	MG	5	3591	1/1	0.88	0.26	34,34,34,34	0
86	OHX	2	2174	7/7	0.88	0.12	169,169,169,169	0
85	MG	5	3723	1/1	0.88	0.31	84,84,84,84	0
85	MG	1	3450	1/1	0.88	0.11	42,42,42,42	0
85	MG	5	3455	1/1	0.88	0.20	43,43,43,43	0
85	MG	1	3622	1/1	0.88	0.27	82,82,82,82	0
85	MG	1	3506	1/1	0.88	0.14	36,36,36,36	0
85	MG	5	3731	1/1	0.88	0.10	39,39,39,39	0
86	OHX	1	4068	7/7	0.88	0.35	122,122,122,122	0
86	OHX	1	4077	7/7	0.88	0.12	164,164,164,164	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2194	7/7	0.88	0.12	196,196,196,196	0
86	OHX	6	2198	7/7	0.88	0.14	171,171,171,171	0
85	MG	6	2032	1/1	0.88	0.12	58,58,58,58	0
86	OHX	1	4088	7/7	0.88	0.11	165,165,165,165	0
85	MG	5	3603	1/1	0.88	0.18	35,35,35,35	0
85	MG	5	3604	1/1	0.88	0.16	55,55,55,55	0
86	OHX	1	4093	7/7	0.88	0.11	175,175,175,175	0
85	MG	5	3878	1/1	0.88	0.30	65,65,65,65	0
85	MG	1	3789	1/1	0.88	0.25	60,60,60,60	0
86	OHX	5	4094	7/7	0.88	0.14	149,149,149,149	0
86	OHX	1	4116	7/7	0.88	0.14	164,164,164,164	0
85	MG	5	3884	1/1	0.88	0.14	33,33,33,33	0
85	MG	1	3662	1/1	0.88	0.09	40,40,40,40	0
85	MG	5	3755	1/1	0.88	0.11	74,74,74,74	0
86	OHX	5	4146	7/7	0.88	0.15	145,145,145,145	0
86	OHX	5	4147	7/7	0.88	0.12	165,165,165,165	0
86	OHX	5	4148	7/7	0.88	0.17	140,140,140,140	0
85	MG	7	204	1/1	0.88	0.30	50,50,50,50	0
85	MG	5	3620	1/1	0.88	0.34	48,48,48,48	0
85	MG	M9	201	1/1	0.88	0.12	68,68,68,68	0
85	MG	6	1943	1/1	0.88	0.31	75,75,75,75	0
85	MG	2	1925	1/1	0.88	0.38	69,69,69,69	0
86	OHX	5	4164	7/7	0.88	0.14	160,160,160,160	0
85	MG	6	1946	1/1	0.88	0.25	61,61,61,61	0
86	OHX	1	4139	7/7	0.88	0.11	153,153,153,153	0
85	MG	2	2007	1/1	0.88	0.35	79,79,79,79	0
86	OHX	5	4181	7/7	0.88	0.15	153,153,153,153	0
85	MG	5	3484	1/1	0.88	0.21	53,53,53,53	0
85	MG	3	203	1/1	0.88	0.10	73,73,73,73	0
85	MG	5	3493	1/1	0.88	0.17	40,40,40,40	0
85	MG	2	1988	1/1	0.88	0.14	64,64,64,64	0
86	OHX	5	4197	7/7	0.88	0.12	166,166,166,166	0
86	OHX	1	4157	7/7	0.88	0.12	179,179,179,179	0
85	MG	5	3774	1/1	0.88	0.26	96,96,96,96	0
85	MG	1	3608	1/1	0.88	0.08	45,45,45,45	0
85	MG	1	3610	1/1	0.88	0.23	37,37,37,37	0
85	MG	l3	401	1/1	0.88	0.37	26,26,26,26	0
85	MG	1	3753	1/1	0.88	0.22	48,48,48,48	0
86	OHX	1	4170	7/7	0.88	0.10	200,200,200,200	0
85	MG	1	3815	1/1	0.88	0.16	72,72,72,72	0
85	MG	1	3756	1/1	0.88	0.24	61,61,61,61	0
85	MG	1	3679	1/1	0.88	0.09	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	1	4177	7/7	0.88	0.15	165,165,165,165	0
85	MG	d0	201	1/1	0.88	0.21	75,75,75,75	0
85	MG	1	3458	1/1	0.88	0.22	34,34,34,34	0
85	MG	4	205	1/1	0.88	0.12	46,46,46,46	0
85	MG	4	208	1/1	0.88	0.21	43,43,43,43	0
85	MG	5	3407	1/1	0.88	0.17	48,48,48,48	0
85	MG	5	3801	1/1	0.88	0.12	39,39,39,39	0
85	MG	5	3802	1/1	0.88	0.09	82,82,82,82	0
85	MG	5	3523	1/1	0.88	0.31	57,57,57,57	0
85	MG	1	3411	1/1	0.88	0.10	35,35,35,35	0
85	MG	n8	202	1/1	0.88	0.20	52,52,52,52	0
85	MG	4	213	1/1	0.88	0.13	57,57,57,57	0
86	OHX	5	4227	7/7	0.88	0.10	216,216,216,216	0
86	OHX	1	4193	7/7	0.88	0.15	157,157,157,157	0
85	MG	4	216	1/1	0.88	0.19	44,44,44,44	0
85	MG	5	3682	1/1	0.88	0.11	49,49,49,49	0
85	MG	5	3820	1/1	0.88	0.32	45,45,45,45	0
86	OHX	2	2067	7/7	0.88	0.10	194,194,194,194	0
85	MG	5	3685	1/1	0.88	0.28	46,46,46,46	0
85	MG	1	3694	1/1	0.88	0.10	59,59,59,59	0
85	MG	5	3419	1/1	0.88	0.12	84,84,84,84	0
86	OHX	5	4240	7/7	0.88	0.15	164,164,164,164	0
85	MG	6	1928	1/1	0.88	0.16	61,61,61,61	0
86	OHX	1	4206	7/7	0.88	0.14	161,161,161,161	0
86	OHX	5	4243	7/7	0.88	0.14	171,171,171,171	0
85	MG	5	3423	1/1	0.88	0.20	74,74,74,74	0
86	OHX	2	2136	7/7	0.88	0.13	164,164,164,164	0
85	MG	5	3694	1/1	0.88	0.50	41,41,41,41	0
85	MG	5	3425	1/1	0.88	0.19	45,45,45,45	0
86	OHX	M7	206	7/7	0.88	0.20	135,135,135,135	0
85	MG	1	3615	1/1	0.88	0.12	72,72,72,72	0
86	OHX	2	2145	7/7	0.88	0.13	166,166,166,166	0
85	MG	5	3431	1/1	0.88	0.12	40,40,40,40	0
85	MG	6	1931	1/1	0.88	0.20	53,53,53,53	0
85	MG	5	3849	1/1	0.88	0.29	45,45,45,45	0
85	MG	5	3568	1/1	0.88	0.25	34,34,34,34	0
86	OHX	2	2157	7/7	0.88	0.16	138,138,138,138	0
86	OHX	6	2152	7/7	0.88	0.14	177,177,177,177	0
86	OHX	2	2158	7/7	0.88	0.09	278,278,278,278	0
88	BLS	1	4211	30/30	0.88	0.11	52,52,52,52	0
88	BLS	5	4248	30/30	0.88	0.12	52,52,52,52	0
85	MG	7	214	1/1	0.89	0.08	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3754	1/1	0.89	0.10	56,56,56,56	0
85	MG	5	3639	1/1	0.89	0.11	41,41,41,41	0
86	OHX	1	4095	7/7	0.89	0.15	147,147,147,147	0
85	MG	s8	301	1/1	0.89	0.29	57,57,57,57	0
86	OHX	1	4103	7/7	0.89	0.12	161,161,161,161	0
85	MG	5	3501	1/1	0.89	0.28	37,37,37,37	0
85	MG	2	1916	1/1	0.89	0.20	61,61,61,61	0
86	OHX	6	2195	7/7	0.89	0.11	183,183,183,183	0
85	MG	1	3497	1/1	0.89	0.17	39,39,39,39	0
85	MG	1	3533	1/1	0.89	0.26	47,47,47,47	0
85	MG	5	3784	1/1	0.89	0.14	78,78,78,78	0
85	MG	6	1996	1/1	0.89	0.09	67,67,67,67	0
85	MG	M5	302	1/1	0.89	0.23	55,55,55,55	0
86	OHX	1	4133	7/7	0.89	0.13	154,154,154,154	0
85	MG	M7	201	1/1	0.89	0.37	69,69,69,69	0
86	OHX	c3	201	7/7	0.89	0.11	182,182,182,182	0
85	MG	5	3513	1/1	0.89	0.21	34,34,34,34	0
85	MG	1	3628	1/1	0.89	0.15	37,37,37,37	0
86	OHX	5	4115	7/7	0.89	0.14	139,139,139,139	0
86	OHX	5	4132	7/7	0.89	0.15	161,161,161,161	0
85	MG	1	3765	1/1	0.89	0.18	46,46,46,46	0
85	MG	N3	201	1/1	0.89	0.20	35,35,35,35	0
85	MG	5	3409	1/1	0.89	0.09	36,36,36,36	0
85	MG	1	3499	1/1	0.89	0.24	73,73,73,73	0
86	OHX	5	4142	7/7	0.89	0.17	138,138,138,138	0
86	OHX	5	4144	7/7	0.89	0.12	167,167,167,167	0
85	MG	1	3590	1/1	0.89	0.21	35,35,35,35	0
85	MG	1	3541	1/1	0.89	0.27	41,41,41,41	0
85	MG	2	2021	1/1	0.89	0.19	89,89,89,89	0
85	MG	m7	202	1/1	0.89	0.19	35,35,35,35	0
86	OHX	5	4151	7/7	0.89	0.12	168,168,168,168	0
85	MG	5	3807	1/1	0.89	0.12	62,62,62,62	0
85	MG	1	3478	1/1	0.89	0.21	79,79,79,79	0
85	MG	5	3422	1/1	0.89	0.13	45,45,45,45	0
85	MG	6	2013	1/1	0.89	0.16	82,82,82,82	0
85	MG	1	3481	1/1	0.89	0.15	62,62,62,62	0
86	OHX	5	4171	7/7	0.89	0.13	160,160,160,160	0
85	MG	6	2019	1/1	0.89	0.11	59,59,59,59	0
86	OHX	5	4176	7/7	0.89	0.12	169,169,169,169	0
85	MG	1	3549	1/1	0.89	0.34	37,37,37,37	0
85	MG	1	3550	1/1	0.89	0.40	38,38,38,38	0
85	MG	5	3699	1/1	0.89	0.08	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	2	2092	7/7	0.89	0.13	172,172,172,172	0
85	MG	1	3647	1/1	0.89	0.13	56,56,56,56	0
86	OHX	1	4180	7/7	0.89	0.12	167,167,167,167	0
85	MG	1	3791	1/1	0.89	0.10	53,53,53,53	0
86	OHX	2	2119	7/7	0.89	0.13	161,161,161,161	0
85	MG	5	3441	1/1	0.89	0.20	38,38,38,38	0
85	MG	5	3576	1/1	0.89	0.38	45,45,45,45	0
85	MG	5	3839	1/1	0.89	0.21	46,46,46,46	0
86	OHX	2	2135	7/7	0.89	0.13	160,160,160,160	0
85	MG	5	3581	1/1	0.89	0.27	46,46,46,46	0
86	OHX	5	4204	7/7	0.89	0.17	150,150,150,150	0
85	MG	2	2005	1/1	0.89	0.27	67,67,67,67	0
85	MG	1	3448	1/1	0.89	0.29	34,34,34,34	0
85	MG	1	3719	1/1	0.89	0.41	52,52,52,52	0
86	OHX	2	2142	7/7	0.89	0.13	163,163,163,163	0
86	OHX	5	4211	7/7	0.89	0.14	165,165,165,165	0
85	MG	2	1920	1/1	0.89	0.15	68,68,68,68	0
85	MG	1	3805	1/1	0.89	0.13	50,50,50,50	0
85	MG	4	202	1/1	0.89	0.33	49,49,49,49	0
85	MG	5	3595	1/1	0.89	0.33	41,41,41,41	0
86	OHX	1	4199	7/7	0.89	0.12	164,164,164,164	0
86	OHX	2	2152	7/7	0.89	0.13	166,166,166,166	0
85	MG	1	3806	1/1	0.89	0.08	41,41,41,41	0
86	OHX	1	4202	7/7	0.89	0.13	163,163,163,163	0
86	OHX	2	2154	7/7	0.89	0.11	172,172,172,172	0
85	MG	1	3520	1/1	0.89	0.25	25,25,25,25	0
85	MG	1	3574	1/1	0.89	0.09	35,35,35,35	0
86	OHX	1	4209	7/7	0.89	0.14	162,162,162,162	0
86	OHX	1	4210	7/7	0.89	0.14	171,171,171,171	0
85	MG	4	211	1/1	0.89	0.15	80,80,80,80	0
85	MG	1	3730	1/1	0.89	0.10	45,45,45,45	0
86	OHX	4	238	7/7	0.89	0.15	159,159,159,159	0
85	MG	5	3736	1/1	0.89	0.12	45,45,45,45	0
85	MG	5	3867	1/1	0.89	0.23	43,43,43,43	0
85	MG	5	3737	1/1	0.89	0.14	41,41,41,41	0
85	MG	1	3453	1/1	0.89	0.26	53,53,53,53	0
85	MG	1	3826	1/1	0.89	0.27	32,32,32,32	0
85	MG	1	3749	1/1	0.89	0.14	68,68,68,68	0
86	OHX	6	2127	7/7	0.89	0.13	149,149,149,149	0
85	MG	5	3748	1/1	0.89	0.13	47,47,47,47	0
85	MG	5	3750	1/1	0.89	0.11	51,51,51,51	0
85	MG	5	3481	1/1	0.89	0.20	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	3754	1/1	0.89	0.25	54,54,54,54	0
85	MG	1	3525	1/1	0.89	0.33	31,31,31,31	0
86	OHX	6	2153	7/7	0.89	0.12	169,169,169,169	0
85	MG	5	3626	1/1	0.89	0.14	49,49,49,49	0
85	MG	5	3486	1/1	0.89	0.17	40,40,40,40	0
86	OHX	8	228	7/7	0.89	0.14	154,154,154,154	0
86	OHX	8	229	7/7	0.89	0.14	161,161,161,161	0
86	OHX	13	405	7/7	0.89	0.12	170,170,170,170	0
86	OHX	1	4031	7/7	0.89	0.14	156,156,156,156	0
85	MG	5	3490	1/1	0.89	0.19	47,47,47,47	0
86	OHX	1	4063	7/7	0.89	0.14	155,155,155,155	0
85	MG	1	3836	1/1	0.89	0.29	59,59,59,59	0
86	OHX	1	4071	7/7	0.89	0.14	154,154,154,154	0
86	OHX	1	4074	7/7	0.89	0.13	155,155,155,155	0
86	OHX	1	4075	7/7	0.89	0.15	150,150,150,150	0
86	OHX	6	2180	7/7	0.89	0.14	164,164,164,164	0
85	MG	1	3838	1/1	0.89	0.10	49,49,49,49	0
85	MG	2	1921	1/1	0.89	0.45	61,61,61,61	0
85	MG	5	3497	1/1	0.89	0.24	48,48,48,48	0
85	MG	1	3404	1/1	0.90	0.29	73,73,73,73	0
85	MG	5	3587	1/1	0.90	0.28	26,26,26,26	0
85	MG	6	2015	1/1	0.90	0.09	51,51,51,51	0
85	MG	1	3470	1/1	0.90	0.16	44,44,44,44	0
86	OHX	6	2177	7/7	0.90	0.15	143,143,143,143	0
85	MG	5	3590	1/1	0.90	0.23	30,30,30,30	0
85	MG	5	3735	1/1	0.90	0.19	49,49,49,49	0
86	OHX	2	2178	7/7	0.90	0.11	192,192,192,192	0
85	MG	2	1940	1/1	0.90	0.18	74,74,74,74	0
85	MG	1	3620	1/1	0.90	0.24	48,48,48,48	0
86	OHX	D9	102	7/7	0.90	0.13	164,164,164,164	0
85	MG	5	3457	1/1	0.90	0.28	35,35,35,35	0
85	MG	O1	201	1/1	0.90	0.26	64,64,64,64	0
85	MG	1	3790	1/1	0.90	0.76	38,38,38,38	0
86	OHX	1	4065	7/7	0.90	0.13	140,140,140,140	0
85	MG	5	3885	1/1	0.90	0.09	89,89,89,89	0
85	MG	5	3888	1/1	0.90	0.23	61,61,61,61	0
86	OHX	1	4073	7/7	0.90	0.14	147,147,147,147	0
85	MG	5	3745	1/1	0.90	0.28	53,53,53,53	0
85	MG	5	3464	1/1	0.90	0.09	38,38,38,38	0
85	MG	6	2024	1/1	0.90	0.16	74,74,74,74	0
85	MG	6	1901	1/1	0.90	0.39	55,55,55,55	0
85	MG	1	3661	1/1	0.90	0.23	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3588	1/1	0.90	0.34	47,47,47,47	0
85	MG	5	3471	1/1	0.90	0.15	46,46,46,46	0
85	MG	1	3796	1/1	0.90	0.23	57,57,57,57	0
85	MG	1	3728	1/1	0.90	0.11	86,86,86,86	0
85	MG	1	3589	1/1	0.90	0.18	83,83,83,83	0
86	OHX	d4	201	7/7	0.90	0.10	174,174,174,174	0
86	OHX	d9	102	7/7	0.90	0.12	179,179,179,179	0
86	OHX	1	4097	7/7	0.90	0.12	165,165,165,165	0
86	OHX	5	4072	7/7	0.90	0.42	120,120,120,120	0
86	OHX	5	4091	7/7	0.90	0.11	172,172,172,172	0
85	MG	1	3745	1/1	0.90	0.20	50,50,50,50	0
86	OHX	5	4095	7/7	0.90	0.12	152,152,152,152	0
86	OHX	5	4111	7/7	0.90	0.10	172,172,172,172	0
86	OHX	5	4113	7/7	0.90	0.12	154,154,154,154	0
85	MG	8	203	1/1	0.90	0.11	68,68,68,68	0
86	OHX	1	4108	7/7	0.90	0.17	140,140,140,140	0
86	OHX	5	4133	7/7	0.90	0.11	151,151,151,151	0
86	OHX	1	4114	7/7	0.90	0.12	157,157,157,157	0
85	MG	2	2015	1/1	0.90	0.37	57,57,57,57	0
85	MG	8	205	1/1	0.90	0.12	56,56,56,56	0
85	MG	1	3521	1/1	0.90	0.19	28,28,28,28	0
85	MG	5	3768	1/1	0.90	0.13	34,34,34,34	0
85	MG	5	3769	1/1	0.90	0.22	60,60,60,60	0
85	MG	6	1914	1/1	0.90	0.25	57,57,57,57	0
85	MG	8	211	1/1	0.90	0.47	49,49,49,49	0
85	MG	6	1915	1/1	0.90	0.40	64,64,64,64	0
85	MG	1	3494	1/1	0.90	0.16	50,50,50,50	0
85	MG	6	1974	1/1	0.90	0.17	61,61,61,61	0
86	OHX	5	4153	7/7	0.90	0.13	155,155,155,155	0
85	MG	6	2042	1/1	0.90	0.25	71,71,71,71	0
85	MG	1	3673	1/1	0.90	0.11	40,40,40,40	0
86	OHX	5	4156	7/7	0.90	0.14	151,151,151,151	0
86	OHX	1	4142	7/7	0.90	0.11	171,171,171,171	0
85	MG	1	3812	1/1	0.90	0.13	45,45,45,45	0
85	MG	5	3783	1/1	0.90	0.07	35,35,35,35	0
86	OHX	5	4166	7/7	0.90	0.11	184,184,184,184	0
86	OHX	5	4170	7/7	0.90	0.14	174,174,174,174	0
85	MG	6	1920	1/1	0.90	0.32	44,44,44,44	0
85	MG	5	3651	1/1	0.90	0.12	44,44,44,44	0
85	MG	1	3561	1/1	0.90	0.26	37,37,37,37	0
86	OHX	5	4177	7/7	0.90	0.11	162,162,162,162	0
85	MG	6	1980	1/1	0.90	0.27	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4160	7/7	0.90	0.10	185,185,185,185	0
85	MG	m5	304	1/1	0.90	0.23	50,50,50,50	0
85	MG	m5	305	1/1	0.90	0.20	87,87,87,87	0
85	MG	5	3657	1/1	0.90	0.28	51,51,51,51	0
85	MG	1	3430	1/1	0.90	0.24	42,42,42,42	0
85	MG	1	3817	1/1	0.90	0.21	70,70,70,70	0
85	MG	4	207	1/1	0.90	0.34	35,35,35,35	0
85	MG	n3	201	1/1	0.90	0.29	24,24,24,24	0
85	MG	1	3821	1/1	0.90	0.13	31,31,31,31	0
86	OHX	1	4175	7/7	0.90	0.07	246,246,246,246	0
85	MG	1	3822	1/1	0.90	0.26	56,56,56,56	0
85	MG	n9	101	1/1	0.90	0.09	40,40,40,40	0
85	MG	6	1930	1/1	0.90	0.39	54,54,54,54	0
85	MG	1	3824	1/1	0.90	0.22	43,43,43,43	0
85	MG	5	3674	1/1	0.90	0.21	43,43,43,43	0
85	MG	5	3517	1/1	0.90	0.35	30,30,30,30	0
85	MG	1	3434	1/1	0.90	0.13	41,41,41,41	0
85	MG	4	214	1/1	0.90	0.14	45,45,45,45	0
85	MG	1	3477	1/1	0.90	0.11	98,98,98,98	0
86	OHX	2	2107	7/7	0.90	0.13	154,154,154,154	0
86	OHX	2	2111	7/7	0.90	0.10	179,179,179,179	0
86	OHX	2	2112	7/7	0.90	0.12	158,158,158,158	0
85	MG	5	3818	1/1	0.90	0.11	41,41,41,41	0
86	OHX	2	2118	7/7	0.90	0.11	158,158,158,158	0
85	MG	4	220	1/1	0.90	0.11	44,44,44,44	0
86	OHX	2	2122	7/7	0.90	0.11	170,170,170,170	0
85	MG	5	3821	1/1	0.90	0.21	32,32,32,32	0
85	MG	1	3501	1/1	0.90	0.46	54,54,54,54	0
86	OHX	2	2133	7/7	0.90	0.10	180,180,180,180	0
86	OHX	5	4224	7/7	0.90	0.08	212,212,212,212	0
85	MG	5	3531	1/1	0.90	0.20	59,59,59,59	0
85	MG	1	3831	1/1	0.90	0.17	34,34,34,34	0
85	MG	1	3832	1/1	0.90	0.23	64,64,64,64	0
85	MG	5	3828	1/1	0.90	0.08	43,43,43,43	0
85	MG	1	3639	1/1	0.90	0.19	49,49,49,49	0
85	MG	1	3766	1/1	0.90	0.11	60,60,60,60	0
85	MG	5	3544	1/1	0.90	0.46	51,51,51,51	0
86	OHX	2	2143	7/7	0.90	0.16	148,148,148,148	0
86	OHX	2	2144	7/7	0.90	0.10	182,182,182,182	0
86	OHX	4	234	7/7	0.90	0.14	133,133,133,133	0
85	MG	5	3546	1/1	0.90	0.36	49,49,49,49	0
85	MG	5	3547	1/1	0.90	0.27	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	1	3413	1/1	0.90	0.24	66,66,66,66	0
85	MG	5	3845	1/1	0.90	0.17	102,102,102,102	0
86	OHX	2	2150	7/7	0.90	0.12	175,175,175,175	0
85	MG	5	3549	1/1	0.90	0.23	29,29,29,29	0
85	MG	5	3421	1/1	0.90	0.29	45,45,45,45	0
86	OHX	5	4247	7/7	0.90	0.10	188,188,188,188	0
85	MG	1	3641	1/1	0.90	0.07	54,54,54,54	0
86	OHX	2	2156	7/7	0.90	0.08	262,262,262,262	0
86	OHX	8	224	7/7	0.90	0.12	172,172,172,172	0
86	OHX	6	2116	7/7	0.90	0.13	159,159,159,159	0
86	OHX	8	227	7/7	0.90	0.13	150,150,150,150	0
86	OHX	6	2124	7/7	0.90	0.13	161,161,161,161	0
85	MG	6	2004	1/1	0.90	0.11	101,101,101,101	0
85	MG	5	3707	1/1	0.90	0.18	72,72,72,72	0
85	MG	1	3534	1/1	0.90	0.18	52,52,52,52	0
86	OHX	6	2144	7/7	0.90	0.12	159,159,159,159	0
85	MG	1	3775	1/1	0.90	0.19	49,49,49,49	0
85	MG	M5	301	1/1	0.90	0.20	39,39,39,39	0
85	MG	6	2010	1/1	0.90	0.09	61,61,61,61	0
85	MG	1	3462	1/1	0.90	0.14	61,61,61,61	0
86	OHX	6	2154	7/7	0.90	0.10	162,162,162,162	0
85	MG	5	3579	1/1	0.90	0.32	33,33,33,33	0
86	OHX	2	2166	7/7	0.90	0.11	177,177,177,177	0
85	MG	1	3421	1/1	0.90	0.16	37,37,37,37	0
86	OHX	6	2168	7/7	0.90	0.15	151,151,151,151	0
85	MG	5	3552	1/1	0.91	0.16	39,39,39,39	0
85	MG	1	3714	1/1	0.91	0.09	82,82,82,82	0
86	OHX	1	4111	7/7	0.91	0.13	146,146,146,146	0
85	MG	5	3451	1/1	0.91	0.33	43,43,43,43	0
85	MG	5	3691	1/1	0.91	0.16	44,44,44,44	0
85	MG	5	3562	1/1	0.91	0.23	31,31,31,31	0
86	OHX	6	2192	7/7	0.91	0.11	173,173,173,173	0
85	MG	1	3715	1/1	0.91	0.08	41,41,41,41	0
85	MG	n8	201	1/1	0.91	0.11	37,37,37,37	0
85	MG	1	3489	1/1	0.91	0.10	59,59,59,59	0
86	OHX	6	2196	7/7	0.91	0.09	183,183,183,183	0
86	OHX	1	4128	7/7	0.91	0.13	142,142,142,142	0
85	MG	5	3697	1/1	0.91	0.17	59,59,59,59	0
86	OHX	1	4131	7/7	0.91	0.14	141,141,141,141	0
85	MG	3	212	1/1	0.91	0.15	65,65,65,65	0
85	MG	1	3491	1/1	0.91	0.10	52,52,52,52	0
86	OHX	1	4135	7/7	0.91	0.17	131,131,131,131	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	s4	301	7/7	0.91	0.12	168,168,168,168	0
85	MG	o7	101	1/1	0.91	0.15	47,47,47,47	0
85	MG	1	3460	1/1	0.91	0.21	28,28,28,28	0
85	MG	1	3474	1/1	0.91	0.16	41,41,41,41	0
85	MG	C1	201	1/1	0.91	0.16	69,69,69,69	0
86	OHX	1	4141	7/7	0.91	0.12	174,174,174,174	0
86	OHX	5	4050	7/7	0.91	0.13	140,140,140,140	0
86	OHX	2	2079	7/7	0.91	0.08	193,193,193,193	0
86	OHX	5	4082	7/7	0.91	0.14	138,138,138,138	0
86	OHX	1	4143	7/7	0.91	0.12	155,155,155,155	0
85	MG	5	3585	1/1	0.91	0.25	25,25,25,25	0
85	MG	6	2033	1/1	0.91	0.20	70,70,70,70	0
86	OHX	5	4097	7/7	0.91	0.20	125,125,125,125	0
86	OHX	5	4100	7/7	0.91	0.15	129,129,129,129	0
86	OHX	5	4106	7/7	0.91	0.11	155,155,155,155	0
85	MG	1	3809	1/1	0.91	0.08	53,53,53,53	0
85	MG	6	1917	1/1	0.91	0.35	67,67,67,67	0
86	OHX	5	4114	7/7	0.91	0.14	142,142,142,142	0
85	MG	1	3463	1/1	0.91	0.23	53,53,53,53	0
86	OHX	5	4119	7/7	0.91	0.10	176,176,176,176	0
86	OHX	5	4123	7/7	0.91	0.12	159,159,159,159	0
86	OHX	5	4127	7/7	0.91	0.09	211,211,211,211	0
85	MG	5	3714	1/1	0.91	0.18	63,63,63,63	0
86	OHX	1	4158	7/7	0.91	0.12	155,155,155,155	0
86	OHX	1	4159	7/7	0.91	0.10	169,169,169,169	0
85	MG	5	3848	1/1	0.91	0.19	63,63,63,63	0
86	OHX	1	4162	7/7	0.91	0.09	211,211,211,211	0
85	MG	1	3733	1/1	0.91	0.14	53,53,53,53	0
86	OHX	5	4139	7/7	0.91	0.14	134,134,134,134	0
85	MG	5	3474	1/1	0.91	0.12	92,92,92,92	0
86	OHX	5	4143	7/7	0.91	0.14	158,158,158,158	0
85	MG	5	3475	1/1	0.91	0.35	50,50,50,50	0
85	MG	1	3736	1/1	0.91	0.35	55,55,55,55	0
86	OHX	2	2129	7/7	0.91	0.10	218,218,218,218	0
85	MG	1	3740	1/1	0.91	0.17	50,50,50,50	0
85	MG	1	3576	1/1	0.91	0.36	28,28,28,28	0
86	OHX	1	4173	7/7	0.91	0.16	143,143,143,143	0
85	MG	1	3442	1/1	0.91	0.18	54,54,54,54	0
85	MG	1	3747	1/1	0.91	0.09	34,34,34,34	0
85	MG	5	3600	1/1	0.91	0.19	39,39,39,39	0
85	MG	6	1927	1/1	0.91	0.28	81,81,81,81	0
85	MG	1	3443	1/1	0.91	0.19	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3605	1/1	0.91	0.27	36,36,36,36	0
86	OHX	5	4161	7/7	0.91	0.13	154,154,154,154	0
86	OHX	5	4162	7/7	0.91	0.11	161,161,161,161	0
86	OHX	5	4163	7/7	0.91	0.10	162,162,162,162	0
85	MG	1	3500	1/1	0.91	0.28	28,28,28,28	0
85	MG	5	3738	1/1	0.91	0.10	61,61,61,61	0
85	MG	5	3617	1/1	0.91	0.24	39,39,39,39	0
85	MG	4	218	1/1	0.91	0.08	67,67,67,67	0
85	MG	1	3624	1/1	0.91	0.20	39,39,39,39	0
85	MG	1	3828	1/1	0.91	0.32	41,41,41,41	0
85	MG	1	3482	1/1	0.91	0.15	48,48,48,48	0
85	MG	5	3625	1/1	0.91	0.14	43,43,43,43	0
85	MG	1	3675	1/1	0.91	0.16	42,42,42,42	0
85	MG	5	3880	1/1	0.91	0.23	61,61,61,61	0
85	MG	5	3883	1/1	0.91	0.17	36,36,36,36	0
85	MG	1	3504	1/1	0.91	0.18	32,32,32,32	0
86	OHX	5	4188	7/7	0.91	0.13	143,143,143,143	0
85	MG	1	3629	1/1	0.91	0.09	34,34,34,34	0
85	MG	5	3887	1/1	0.91	0.06	135,135,135,135	0
85	MG	6	1937	1/1	0.91	0.15	56,56,56,56	0
86	OHX	5	4198	7/7	0.91	0.16	157,157,157,157	0
85	MG	1	3680	1/1	0.91	0.14	50,50,50,50	0
85	MG	5	3509	1/1	0.91	0.14	44,44,44,44	0
85	MG	1	3447	1/1	0.91	0.11	41,41,41,41	0
85	MG	5	3637	1/1	0.91	0.07	30,30,30,30	0
86	OHX	2	2165	7/7	0.91	0.09	197,197,197,197	0
85	MG	1	3687	1/1	0.91	0.10	28,28,28,28	0
86	OHX	2	2167	7/7	0.91	0.10	172,172,172,172	0
86	OHX	5	4206	7/7	0.91	0.30	126,126,126,126	0
86	OHX	1	4207	7/7	0.91	0.16	154,154,154,154	0
86	OHX	1	4208	7/7	0.91	0.10	185,185,185,185	0
85	MG	7	207	1/1	0.91	0.17	45,45,45,45	0
85	MG	6	2000	1/1	0.91	0.10	108,108,108,108	0
86	OHX	3	222	7/7	0.91	0.10	160,160,160,160	0
86	OHX	3	224	7/7	0.91	0.13	157,157,157,157	0
85	MG	6	1941	1/1	0.91	0.19	46,46,46,46	0
85	MG	7	212	1/1	0.91	0.14	63,63,63,63	0
85	MG	7	213	1/1	0.91	0.08	59,59,59,59	0
86	OHX	4	237	7/7	0.91	0.12	168,168,168,168	0
85	MG	5	3644	1/1	0.91	0.05	31,31,31,31	0
85	MG	5	3412	1/1	0.91	0.25	45,45,45,45	0
85	MG	5	3646	1/1	0.91	0.21	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3649	1/1	0.91	0.27	69,69,69,69	0
85	MG	1	3688	1/1	0.91	0.17	43,43,43,43	0
86	OHX	C3	201	7/7	0.91	0.10	174,174,174,174	0
86	OHX	6	2099	7/7	0.91	0.10	197,197,197,197	0
85	MG	1	3689	1/1	0.91	0.15	45,45,45,45	0
86	OHX	1	3995	7/7	0.91	0.13	135,135,135,135	0
85	MG	5	3778	1/1	0.91	0.18	43,43,43,43	0
86	OHX	6	2126	7/7	0.91	0.18	136,136,136,136	0
86	OHX	1	4053	7/7	0.91	0.14	145,145,145,145	0
86	OHX	5	4233	7/7	0.91	0.10	169,169,169,169	0
86	OHX	6	2131	7/7	0.91	0.10	172,172,172,172	0
86	OHX	6	2133	7/7	0.91	0.10	169,169,169,169	0
86	OHX	1	4057	7/7	0.91	0.10	165,165,165,165	0
85	MG	1	3507	1/1	0.91	0.33	20,20,20,20	0
86	OHX	5	4238	7/7	0.91	0.26	125,125,125,125	0
86	OHX	6	2138	7/7	0.91	0.13	138,138,138,138	0
86	OHX	6	2141	7/7	0.91	0.10	181,181,181,181	0
85	MG	1	3429	1/1	0.91	0.16	52,52,52,52	0
85	MG	1	3511	1/1	0.91	0.34	25,25,25,25	0
85	MG	1	3548	1/1	0.91	0.19	46,46,46,46	0
85	MG	5	3786	1/1	0.91	0.58	45,45,45,45	0
85	MG	1	3449	1/1	0.91	0.33	50,50,50,50	0
86	OHX	5	4246	7/7	0.91	0.12	166,166,166,166	0
85	MG	1	3487	1/1	0.91	0.31	61,61,61,61	0
85	MG	5	3538	1/1	0.91	0.24	32,32,32,32	0
86	OHX	1	4076	7/7	0.91	0.14	139,139,139,139	0
86	OHX	6	2163	7/7	0.91	0.11	161,161,161,161	0
86	OHX	6	2164	7/7	0.91	0.09	214,214,214,214	0
85	MG	N5	201	1/1	0.91	0.21	69,69,69,69	0
86	OHX	1	4079	7/7	0.91	0.10	161,161,161,161	0
85	MG	N8	205	1/1	0.91	0.24	39,39,39,39	0
85	MG	1	3553	1/1	0.91	0.29	42,42,42,42	0
86	OHX	6	2173	7/7	0.91	0.13	164,164,164,164	0
85	MG	5	3545	1/1	0.91	0.30	50,50,50,50	0
85	MG	5	3676	1/1	0.91	0.10	40,40,40,40	0
86	OHX	6	2176	7/7	0.91	0.14	132,132,132,132	0
86	OHX	m0	303	7/7	0.91	0.13	145,145,145,145	0
85	MG	O2	201	1/1	0.91	0.11	36,36,36,36	0
85	MG	1	3554	1/1	0.91	0.21	50,50,50,50	0
85	MG	1	3488	1/1	0.91	0.19	36,36,36,36	0
85	MG	1	3560	1/1	0.91	0.24	50,50,50,50	0
86	OHX	1	4100	7/7	0.91	0.13	143,143,143,143	0

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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	0.91	0.14	142,142,142,142	0
85	MG	1	3711	1/1	0.91	0.20	40,40,40,40	0
85	MG	1	3530	1/1	0.92	0.28	42,42,42,42	0
85	MG	5	3551	1/1	0.92	0.35	46,46,46,46	0
86	OHX	6	2197	7/7	0.92	0.11	163,163,163,163	0
85	MG	5	3826	1/1	0.92	0.10	48,48,48,48	0
86	OHX	2	2075	7/7	0.92	0.13	151,151,151,151	0
86	OHX	2	2077	7/7	0.92	0.11	161,161,161,161	0
86	OHX	6	2201	7/7	0.92	0.11	173,173,173,173	0
85	MG	5	3444	1/1	0.92	0.30	36,36,36,36	0
85	MG	5	3446	1/1	0.92	0.17	43,43,43,43	0
85	MG	5	3556	1/1	0.92	0.14	53,53,53,53	0
86	OHX	2	2101	7/7	0.92	0.12	158,158,158,158	0
86	OHX	s8	302	7/7	0.92	0.10	193,193,193,193	0
85	MG	4	203	1/1	0.92	0.31	53,53,53,53	0
86	OHX	1	4144	7/7	0.92	0.12	159,159,159,159	0
85	MG	1	3818	1/1	0.92	0.10	51,51,51,51	0
85	MG	5	3565	1/1	0.92	0.36	32,32,32,32	0
86	OHX	5	4031	7/7	0.92	0.10	145,145,145,145	0
85	MG	1	3601	1/1	0.92	0.27	46,46,46,46	0
86	OHX	1	4150	7/7	0.92	0.13	159,159,159,159	0
86	OHX	5	4065	7/7	0.92	0.12	150,150,150,150	0
85	MG	1	3763	1/1	0.92	0.18	45,45,45,45	0
86	OHX	5	4076	7/7	0.92	0.13	136,136,136,136	0
86	OHX	1	4155	7/7	0.92	0.12	148,148,148,148	0
86	OHX	5	4087	7/7	0.92	0.14	137,137,137,137	0
86	OHX	5	4090	7/7	0.92	0.11	144,144,144,144	0
85	MG	1	3577	1/1	0.92	0.29	39,39,39,39	0
86	OHX	2	2121	7/7	0.92	0.10	170,170,170,170	0
85	MG	1	3825	1/1	0.92	0.24	23,23,23,23	0
85	MG	5	3573	1/1	0.92	0.18	18,18,18,18	0
86	OHX	2	2125	7/7	0.92	0.11	155,155,155,155	0
86	OHX	5	4101	7/7	0.92	0.13	141,141,141,141	0
86	OHX	5	4104	7/7	0.92	0.14	137,137,137,137	0
86	OHX	1	4161	7/7	0.92	0.12	153,153,153,153	0
86	OHX	5	4108	7/7	0.92	0.18	135,135,135,135	0
85	MG	1	3708	1/1	0.92	0.19	66,66,66,66	0
85	MG	1	3767	1/1	0.92	0.10	64,64,64,64	0
85	MG	1	3441	1/1	0.92	0.20	24,24,24,24	0
85	MG	4	215	1/1	0.92	0.10	69,69,69,69	0
86	OHX	5	4118	7/7	0.92	0.11	165,165,165,165	0
85	MG	5	3708	1/1	0.92	0.20	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4122	7/7	0.92	0.11	150,150,150,150	0
85	MG	5	3856	1/1	0.92	0.08	49,49,49,49	0
85	MG	5	3467	1/1	0.92	0.23	40,40,40,40	0
86	OHX	5	4128	7/7	0.92	0.14	141,141,141,141	0
86	OHX	5	4130	7/7	0.92	0.14	143,143,143,143	0
86	OHX	2	2138	7/7	0.92	0.11	159,159,159,159	0
85	MG	1	3769	1/1	0.92	0.13	66,66,66,66	0
85	MG	6	1977	1/1	0.92	0.15	53,53,53,53	0
85	MG	4	217	1/1	0.92	0.11	56,56,56,56	0
85	MG	5	3718	1/1	0.92	0.15	28,28,28,28	0
85	MG	6	1925	1/1	0.92	0.22	52,52,52,52	0
85	MG	5	3864	1/1	0.92	0.13	46,46,46,46	0
86	OHX	5	4140	7/7	0.92	0.12	160,160,160,160	0
85	MG	2	1918	1/1	0.92	0.35	57,57,57,57	0
85	MG	6	2040	1/1	0.92	0.28	59,59,59,59	0
85	MG	2	1922	1/1	0.92	0.34	65,65,65,65	0
85	MG	5	3476	1/1	0.92	0.26	30,30,30,30	0
85	MG	5	3596	1/1	0.92	0.42	28,28,28,28	0
85	MG	1	3635	1/1	0.92	0.10	60,60,60,60	0
85	MG	1	3837	1/1	0.92	0.20	49,49,49,49	0
86	OHX	1	4187	7/7	0.92	0.10	171,171,171,171	0
86	OHX	2	2155	7/7	0.92	0.11	164,164,164,164	0
85	MG	5	3480	1/1	0.92	0.16	49,49,49,49	0
85	MG	6	1986	1/1	0.92	0.07	51,51,51,51	0
85	MG	1	3444	1/1	0.92	0.12	50,50,50,50	0
86	OHX	5	4157	7/7	0.92	0.13	140,140,140,140	0
86	OHX	5	4158	7/7	0.92	0.14	141,141,141,141	0
85	MG	6	1988	1/1	0.92	0.09	58,58,58,58	0
85	MG	5	3489	1/1	0.92	0.32	59,59,59,59	0
85	MG	1	3779	1/1	0.92	0.09	50,50,50,50	0
85	MG	5	3612	1/1	0.92	0.11	54,54,54,54	0
85	MG	5	3886	1/1	0.92	0.24	64,64,64,64	0
85	MG	5	3613	1/1	0.92	0.16	42,42,42,42	0
86	OHX	5	4165	7/7	0.92	0.08	203,203,203,203	0
85	MG	5	3614	1/1	0.92	0.18	54,54,54,54	0
86	OHX	5	4167	7/7	0.92	0.21	126,126,126,126	0
86	OHX	5	4169	7/7	0.92	0.13	157,157,157,157	0
85	MG	5	3889	1/1	0.92	0.24	56,56,56,56	0
85	MG	5	4252	1/1	0.92	0.14	40,40,40,40	0
85	MG	1	3585	1/1	0.92	0.22	29,29,29,29	0
86	OHX	2	2170	7/7	0.92	0.11	162,162,162,162	0
86	OHX	1	4205	7/7	0.92	0.15	146,146,146,146	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3678	1/1	0.92	0.08	43,43,43,43	0
85	MG	1	3503	1/1	0.92	0.38	46,46,46,46	0
86	OHX	5	4180	7/7	0.92	0.12	147,147,147,147	0
85	MG	c7	201	1/1	0.92	0.24	61,61,61,61	0
85	MG	1	3480	1/1	0.92	0.20	33,33,33,33	0
85	MG	1	3681	1/1	0.92	0.33	53,53,53,53	0
86	OHX	5	4184	7/7	0.92	0.14	149,149,149,149	0
86	OHX	5	4186	7/7	0.92	0.13	147,147,147,147	0
86	OHX	5	4187	7/7	0.92	0.14	146,146,146,146	0
85	MG	7	209	1/1	0.92	0.08	65,65,65,65	0
86	OHX	3	223	7/7	0.92	0.10	173,173,173,173	0
85	MG	1	3682	1/1	0.92	0.12	36,36,36,36	0
86	OHX	5	4192	7/7	0.92	0.12	146,146,146,146	0
86	OHX	5	4194	7/7	0.92	0.12	147,147,147,147	0
86	OHX	5	4195	7/7	0.92	0.11	148,148,148,148	0
86	OHX	5	4196	7/7	0.92	0.13	144,144,144,144	0
86	OHX	4	231	7/7	0.92	0.13	136,136,136,136	0
85	MG	d3	201	1/1	0.92	0.14	49,49,49,49	0
85	MG	5	3503	1/1	0.92	0.26	30,30,30,30	0
85	MG	1	3847	1/1	0.92	0.15	77,77,77,77	0
85	MG	5	3631	1/1	0.92	0.16	54,54,54,54	0
86	OHX	1	3972	7/7	0.92	0.13	130,130,130,130	0
85	MG	1	3734	1/1	0.92	0.20	54,54,54,54	0
86	OHX	1	4015	7/7	0.92	0.12	140,140,140,140	0
85	MG	1	3567	1/1	0.92	0.25	24,24,24,24	0
86	OHX	1	4037	7/7	0.92	0.11	154,154,154,154	0
86	OHX	1	4038	7/7	0.92	0.25	122,122,122,122	0
86	OHX	1	4044	7/7	0.92	0.14	136,136,136,136	0
85	MG	5	3508	1/1	0.92	0.24	28,28,28,28	0
86	OHX	5	4210	7/7	0.92	0.08	221,221,221,221	0
86	OHX	6	2111	7/7	0.92	0.11	152,152,152,152	0
85	MG	1	3422	1/1	0.92	0.33	39,39,39,39	0
85	MG	5	3771	1/1	0.92	0.26	54,54,54,54	0
86	OHX	1	4062	7/7	0.92	0.13	136,136,136,136	0
85	MG	1	3741	1/1	0.92	0.19	31,31,31,31	0
85	MG	1	3743	1/1	0.92	0.14	54,54,54,54	0
86	OHX	1	4066	7/7	0.92	0.11	154,154,154,154	0
85	MG	5	3640	1/1	0.92	0.16	64,64,64,64	0
85	MG	1	4215	1/1	0.92	0.48	41,41,41,41	0
85	MG	1	3645	1/1	0.92	0.20	37,37,37,37	0
85	MG	5	3414	1/1	0.92	0.21	36,36,36,36	0
85	MG	8	213	1/1	0.92	0.26	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	6	2146	7/7	0.92	0.11	160,160,160,160	0
86	OHX	6	2147	7/7	0.92	0.13	141,141,141,141	0
85	MG	8	214	1/1	0.92	0.25	37,37,37,37	0
85	MG	1	3804	1/1	0.92	0.16	53,53,53,53	0
86	OHX	6	2151	7/7	0.92	0.14	144,144,144,144	0
85	MG	5	3648	1/1	0.92	0.15	46,46,46,46	0
86	OHX	5	4231	7/7	0.92	0.12	157,157,157,157	0
85	MG	5	3417	1/1	0.92	0.18	33,33,33,33	0
86	OHX	1	4087	7/7	0.92	0.13	142,142,142,142	0
85	MG	1	3569	1/1	0.92	0.23	41,41,41,41	0
86	OHX	6	2157	7/7	0.92	0.14	163,163,163,163	0
86	OHX	6	2158	7/7	0.92	0.11	163,163,163,163	0
85	MG	5	3654	1/1	0.92	0.21	35,35,35,35	0
86	OHX	6	2162	7/7	0.92	0.13	147,147,147,147	0
85	MG	O5	201	1/1	0.92	0.15	56,56,56,56	0
85	MG	5	3528	1/1	0.92	0.17	27,27,27,27	0
86	OHX	6	2165	7/7	0.92	0.11	165,165,165,165	0
86	OHX	6	2166	7/7	0.92	0.10	169,169,169,169	0
85	MG	O7	102	1/1	0.92	0.14	66,66,66,66	0
85	MG	6	2008	1/1	0.92	0.26	64,64,64,64	0
86	OHX	6	2169	7/7	0.92	0.11	176,176,176,176	0
85	MG	1	3621	1/1	0.92	0.09	56,56,56,56	0
86	OHX	1	4098	7/7	0.92	0.11	166,166,166,166	0
86	OHX	7	226	7/7	0.92	0.13	132,132,132,132	0
85	MG	5	3664	1/1	0.92	0.11	44,44,44,44	0
85	MG	5	3533	1/1	0.92	0.28	30,30,30,30	0
85	MG	1	3693	1/1	0.92	0.17	55,55,55,55	0
86	OHX	1	4105	7/7	0.92	0.10	156,156,156,156	0
85	MG	2	2009	1/1	0.92	0.24	56,56,56,56	0
85	MG	5	3539	1/1	0.92	0.26	28,28,28,28	0
85	MG	5	3428	1/1	0.92	0.13	29,29,29,29	0
86	OHX	1	4113	7/7	0.92	0.12	148,148,148,148	0
85	MG	1	3652	1/1	0.92	0.16	40,40,40,40	0
85	MG	1	3811	1/1	0.92	0.17	44,44,44,44	0
86	OHX	1	4117	7/7	0.92	0.10	170,170,170,170	0
85	MG	6	2018	1/1	0.92	0.27	46,46,46,46	0
85	MG	5	3813	1/1	0.92	0.26	63,63,63,63	0
85	MG	1	3594	1/1	0.92	0.22	38,38,38,38	0
85	MG	5	3678	1/1	0.92	0.11	41,41,41,41	0
86	OHX	1	4127	7/7	0.92	0.11	176,176,176,176	0
85	MG	5	3437	1/1	0.92	0.15	58,58,58,58	0
86	OHX	1	4129	7/7	0.92	0.12	157,157,157,157	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1960	1/1	0.92	0.29	69,69,69,69	0
85	MG	1	3461	1/1	0.92	0.20	32,32,32,32	0
86	OHX	1	3959	7/7	0.93	0.10	134,134,134,134	0
86	OHX	5	4093	7/7	0.93	0.10	166,166,166,166	0
85	MG	5	3831	1/1	0.93	0.21	36,36,36,36	0
85	MG	1	3718	1/1	0.93	0.10	74,74,74,74	0
86	OHX	1	3998	7/7	0.93	0.12	131,131,131,131	0
86	OHX	1	4004	7/7	0.93	0.11	148,148,148,148	0
85	MG	m5	303	1/1	0.93	0.12	53,53,53,53	0
86	OHX	5	4103	7/7	0.93	0.11	154,154,154,154	0
86	OHX	1	4022	7/7	0.93	0.12	131,131,131,131	0
86	OHX	1	4194	7/7	0.93	0.11	152,152,152,152	0
86	OHX	5	4107	7/7	0.93	0.12	154,154,154,154	0
85	MG	5	3403	1/1	0.93	0.17	34,34,34,34	0
86	OHX	5	4109	7/7	0.93	0.14	147,147,147,147	0
85	MG	5	3727	1/1	0.93	0.10	42,42,42,42	0
85	MG	5	3404	1/1	0.93	0.22	33,33,33,33	0
86	OHX	1	4041	7/7	0.93	0.26	126,126,126,126	0
85	MG	5	3729	1/1	0.93	0.34	47,47,47,47	0
86	OHX	1	4046	7/7	0.93	0.10	159,159,159,159	0
86	OHX	1	4048	7/7	0.93	0.10	161,161,161,161	0
86	OHX	5	4120	7/7	0.93	0.09	175,175,175,175	0
86	OHX	1	4051	7/7	0.93	0.20	121,121,121,121	0
85	MG	m7	203	1/1	0.93	0.10	48,48,48,48	0
86	OHX	5	4124	7/7	0.93	0.10	165,165,165,165	0
86	OHX	1	4055	7/7	0.93	0.11	147,147,147,147	0
85	MG	5	3843	1/1	0.93	0.08	47,47,47,47	0
86	OHX	5	4129	7/7	0.93	0.11	156,156,156,156	0
85	MG	1	3813	1/1	0.93	0.18	59,59,59,59	0
86	OHX	1	4059	7/7	0.93	0.13	149,149,149,149	0
85	MG	5	3406	1/1	0.93	0.20	36,36,36,36	0
85	MG	5	3734	1/1	0.93	0.09	64,64,64,64	0
85	MG	1	3437	1/1	0.93	0.14	50,50,50,50	0
85	MG	1	3538	1/1	0.93	0.29	55,55,55,55	0
86	OHX	1	4067	7/7	0.93	0.10	168,168,168,168	0
85	MG	M7	203	1/1	0.93	0.20	38,38,38,38	0
85	MG	n9	102	1/1	0.93	0.26	24,24,24,24	0
85	MG	1	3459	1/1	0.93	0.11	31,31,31,31	0
85	MG	1	3440	1/1	0.93	0.10	47,47,47,47	0
85	MG	5	3650	1/1	0.93	0.16	63,63,63,63	0
86	OHX	5	4145	7/7	0.93	0.11	166,166,166,166	0
85	MG	N0	201	1/1	0.93	0.22	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3488	1/1	0.93	0.20	49,49,49,49	0
86	OHX	1	4078	7/7	0.93	0.12	153,153,153,153	0
85	MG	1	3723	1/1	0.93	0.20	40,40,40,40	0
85	MG	5	3416	1/1	0.93	0.10	37,37,37,37	0
86	OHX	5	4152	7/7	0.93	0.11	156,156,156,156	0
86	OHX	1	4085	7/7	0.93	0.10	146,146,146,146	0
85	MG	5	3861	1/1	0.93	0.32	37,37,37,37	0
86	OHX	O3	201	7/7	0.93	0.13	137,137,137,137	0
86	OHX	6	2094	7/7	0.93	0.10	157,157,157,157	0
85	MG	6	2025	1/1	0.93	0.15	91,91,91,91	0
85	MG	5	3752	1/1	0.93	0.12	71,71,71,71	0
85	MG	1	3726	1/1	0.93	0.20	34,34,34,34	0
86	OHX	6	2112	7/7	0.93	0.11	128,128,128,128	0
85	MG	1	3686	1/1	0.93	0.18	46,46,46,46	0
86	OHX	6	2117	7/7	0.93	0.12	139,139,139,139	0
86	OHX	2	2102	7/7	0.93	0.10	166,166,166,166	0
86	OHX	2	2105	7/7	0.93	0.10	158,158,158,158	0
85	MG	5	3663	1/1	0.93	0.11	32,32,32,32	0
85	MG	5	3580	1/1	0.93	0.21	33,33,33,33	0
86	OHX	6	2132	7/7	0.93	0.13	157,157,157,157	0
86	OHX	5	4168	7/7	0.93	0.30	110,110,110,110	0
85	MG	5	3495	1/1	0.93	0.14	41,41,41,41	0
85	MG	5	3761	1/1	0.93	0.15	42,42,42,42	0
86	OHX	2	2116	7/7	0.93	0.11	160,160,160,160	0
86	OHX	5	4172	7/7	0.93	0.11	152,152,152,152	0
86	OHX	5	4173	7/7	0.93	0.14	136,136,136,136	0
86	OHX	1	4104	7/7	0.93	0.12	142,142,142,142	0
86	OHX	5	4175	7/7	0.93	0.08	183,183,183,183	0
86	OHX	6	2139	7/7	0.93	0.10	161,161,161,161	0
86	OHX	6	2140	7/7	0.93	0.10	165,165,165,165	0
85	MG	5	3583	1/1	0.93	0.31	33,33,33,33	0
85	MG	1	3651	1/1	0.93	0.13	45,45,45,45	0
85	MG	5	3876	1/1	0.93	0.28	33,33,33,33	0
86	OHX	1	4109	7/7	0.93	0.09	181,181,181,181	0
86	OHX	1	4110	7/7	0.93	0.12	155,155,155,155	0
85	MG	1	3731	1/1	0.93	0.24	60,60,60,60	0
86	OHX	2	2123	7/7	0.93	0.12	166,166,166,166	0
85	MG	1	3778	1/1	0.93	0.06	37,37,37,37	0
85	MG	O2	202	1/1	0.93	0.14	38,38,38,38	0
85	MG	1	3732	1/1	0.93	0.07	35,35,35,35	0
86	OHX	1	4120	7/7	0.93	0.10	168,168,168,168	0
85	MG	2	1985	1/1	0.93	0.13	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2131	7/7	0.93	0.14	153,153,153,153	0
86	OHX	6	2159	7/7	0.93	0.12	137,137,137,137	0
86	OHX	2	2132	7/7	0.93	0.09	176,176,176,176	0
86	OHX	6	2161	7/7	0.93	0.11	156,156,156,156	0
86	OHX	1	4124	7/7	0.93	0.13	143,143,143,143	0
85	MG	1	3523	1/1	0.93	0.23	34,34,34,34	0
86	OHX	1	4126	7/7	0.93	0.10	169,169,169,169	0
85	MG	1	3573	1/1	0.93	0.24	29,29,29,29	0
85	MG	1	3524	1/1	0.93	0.23	24,24,24,24	0
85	MG	6	2037	1/1	0.93	0.35	52,52,52,52	0
85	MG	1	3546	1/1	0.93	0.25	45,45,45,45	0
85	MG	5	3684	1/1	0.93	0.14	51,51,51,51	0
85	MG	5	4249	1/1	0.93	0.32	38,38,38,38	0
85	MG	5	3779	1/1	0.93	0.19	56,56,56,56	0
85	MG	1	3742	1/1	0.93	0.19	43,43,43,43	0
85	MG	6	1905	1/1	0.93	0.30	56,56,56,56	0
85	MG	5	3782	1/1	0.93	0.13	65,65,65,65	0
85	MG	1	3484	1/1	0.93	0.31	41,41,41,41	0
86	OHX	2	2146	7/7	0.93	0.12	153,153,153,153	0
86	OHX	1	4140	7/7	0.93	0.14	145,145,145,145	0
85	MG	2	1998	1/1	0.93	0.09	117,117,117,117	0
85	MG	5	3690	1/1	0.93	0.24	58,58,58,58	0
85	MG	2	1902	1/1	0.93	0.22	52,52,52,52	0
86	OHX	6	2182	7/7	0.93	0.12	158,158,158,158	0
85	MG	1	3667	1/1	0.93	0.15	49,49,49,49	0
86	OHX	2	2151	7/7	0.93	0.08	201,201,201,201	0
85	MG	1	3748	1/1	0.93	0.22	47,47,47,47	0
85	MG	1	3529	1/1	0.93	0.20	29,29,29,29	0
86	OHX	6	2187	7/7	0.93	0.09	177,177,177,177	0
85	MG	5	3454	1/1	0.93	0.21	30,30,30,30	0
86	OHX	1	4151	7/7	0.93	0.13	154,154,154,154	0
85	MG	5	3526	1/1	0.93	0.30	41,41,41,41	0
85	MG	1	3669	1/1	0.93	0.23	37,37,37,37	0
85	MG	5	3616	1/1	0.93	0.13	56,56,56,56	0
86	OHX	5	4228	7/7	0.93	0.13	139,139,139,139	0
85	MG	4	221	1/1	0.93	0.07	58,58,58,58	0
85	MG	8	201	1/1	0.93	0.09	41,41,41,41	0
85	MG	8	202	1/1	0.93	0.29	46,46,46,46	0
85	MG	5	3702	1/1	0.93	0.17	52,52,52,52	0
85	MG	5	3458	1/1	0.93	0.12	30,30,30,30	0
85	MG	5	3704	1/1	0.93	0.17	57,57,57,57	0
86	OHX	1	4163	7/7	0.93	0.15	136,136,136,136	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3459	1/1	0.93	0.07	74,74,74,74	0
85	MG	1	3498	1/1	0.93	0.20	62,62,62,62	0
85	MG	5	3809	1/1	0.93	0.20	47,47,47,47	0
85	MG	1	3582	1/1	0.93	0.39	49,49,49,49	0
85	MG	1	3851	1/1	0.93	0.08	68,68,68,68	0
85	MG	1	3555	1/1	0.93	0.14	46,46,46,46	0
86	OHX	1	4171	7/7	0.93	0.11	155,155,155,155	0
85	MG	5	3540	1/1	0.93	0.19	34,34,34,34	0
85	MG	1	3808	1/1	0.93	0.07	67,67,67,67	0
86	OHX	2	2173	7/7	0.93	0.11	168,168,168,168	0
85	MG	1	3402	1/1	0.93	0.25	54,54,54,54	0
86	OHX	5	3957	7/7	0.93	0.27	101,101,101,101	0
86	OHX	5	3996	7/7	0.93	0.11	124,124,124,124	0
86	OHX	5	4010	7/7	0.93	0.11	166,166,166,166	0
85	MG	5	3717	1/1	0.93	0.17	52,52,52,52	0
86	OHX	8	219	7/7	0.93	0.11	149,149,149,149	0
86	OHX	8	221	7/7	0.93	0.10	147,147,147,147	0
86	OHX	5	4036	7/7	0.93	0.10	157,157,157,157	0
85	MG	5	3468	1/1	0.93	0.13	35,35,35,35	0
85	MG	5	3632	1/1	0.93	0.13	73,73,73,73	0
86	OHX	5	4054	7/7	0.93	0.09	169,169,169,169	0
86	OHX	5	4057	7/7	0.93	0.10	148,148,148,148	0
86	OHX	5	4062	7/7	0.93	0.12	131,131,131,131	0
86	OHX	5	4063	7/7	0.93	0.10	160,160,160,160	0
85	MG	1	3558	1/1	0.93	0.27	28,28,28,28	0
86	OHX	15	304	7/7	0.93	0.09	166,166,166,166	0
86	OHX	5	4070	7/7	0.93	0.11	156,156,156,156	0
85	MG	5	3722	1/1	0.93	0.32	35,35,35,35	0
86	OHX	19	202	7/7	0.93	0.15	138,138,138,138	0
86	OHX	5	4073	7/7	0.93	0.10	152,152,152,152	0
85	MG	19	201	1/1	0.93	0.08	50,50,50,50	0
86	OHX	5	4081	7/7	0.93	0.10	151,151,151,151	0
86	OHX	S8	302	7/7	0.93	0.09	182,182,182,182	0
86	OHX	5	4086	7/7	0.93	0.13	133,133,133,133	0
85	MG	d3	203	1/1	0.93	0.11	49,49,49,49	0
86	OHX	5	4089	7/7	0.93	0.10	155,155,155,155	0
85	MG	2	2014	1/1	0.93	0.21	54,54,54,54	0
86	OHX	5	4096	7/7	0.94	0.10	162,162,162,162	0
85	MG	N8	203	1/1	0.94	0.10	46,46,46,46	0
85	MG	6	2009	1/1	0.94	0.09	58,58,58,58	0
86	OHX	1	4040	7/7	0.94	0.11	135,135,135,135	0
86	OHX	5	4102	7/7	0.94	0.12	143,143,143,143	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3758	1/1	0.94	0.16	61,61,61,61	0
85	MG	5	3499	1/1	0.94	0.13	42,42,42,42	0
86	OHX	1	4045	7/7	0.94	0.10	136,136,136,136	0
85	MG	1	3716	1/1	0.94	0.25	52,52,52,52	0
85	MG	5	3709	1/1	0.94	0.23	46,46,46,46	0
85	MG	5	3601	1/1	0.94	0.10	33,33,33,33	0
86	OHX	5	4110	7/7	0.94	0.12	145,145,145,145	0
85	MG	n6	201	1/1	0.94	0.23	54,54,54,54	0
86	OHX	5	4112	7/7	0.94	0.21	120,120,120,120	0
85	MG	5	3712	1/1	0.94	0.08	54,54,54,54	0
85	MG	6	2012	1/1	0.94	0.18	54,54,54,54	0
85	MG	1	3717	1/1	0.94	0.17	41,41,41,41	0
86	OHX	5	4116	7/7	0.94	0.09	157,157,157,157	0
86	OHX	5	4117	7/7	0.94	0.09	166,166,166,166	0
85	MG	1	3677	1/1	0.94	0.15	70,70,70,70	0
86	OHX	1	4060	7/7	0.94	0.24	126,126,126,126	0
85	MG	1	3642	1/1	0.94	0.25	42,42,42,42	0
85	MG	o3	202	1/1	0.94	0.23	38,38,38,38	0
85	MG	5	3840	1/1	0.94	0.11	58,58,58,58	0
85	MG	6	1955	1/1	0.94	0.37	51,51,51,51	0
86	OHX	5	4125	7/7	0.94	0.08	169,169,169,169	0
85	MG	1	3537	1/1	0.94	0.24	24,24,24,24	0
85	MG	O7	103	1/1	0.94	0.07	35,35,35,35	0
85	MG	5	3846	1/1	0.94	0.12	56,56,56,56	0
86	OHX	1	4072	7/7	0.94	0.10	153,153,153,153	0
85	MG	5	3615	1/1	0.94	0.07	48,48,48,48	0
86	OHX	2	2070	7/7	0.94	0.10	152,152,152,152	0
86	OHX	2	2073	7/7	0.94	0.11	135,135,135,135	0
86	OHX	2	2074	7/7	0.94	0.10	162,162,162,162	0
85	MG	1	3644	1/1	0.94	0.23	36,36,36,36	0
85	MG	1	3819	1/1	0.94	0.11	46,46,46,46	0
85	MG	5	3427	1/1	0.94	0.34	51,51,51,51	0
86	OHX	2	2080	7/7	0.94	0.10	165,165,165,165	0
86	OHX	5	4141	7/7	0.94	0.12	141,141,141,141	0
86	OHX	1	4084	7/7	0.94	0.28	107,107,107,107	0
86	OHX	2	2087	7/7	0.94	0.10	152,152,152,152	0
86	OHX	6	2113	7/7	0.94	0.10	148,148,148,148	0
86	OHX	1	4086	7/7	0.94	0.08	177,177,177,177	0
85	MG	2	1927	1/1	0.94	0.28	49,49,49,49	0
86	OHX	6	2118	7/7	0.94	0.10	164,164,164,164	0
86	OHX	6	2120	7/7	0.94	0.12	134,134,134,134	0
86	OHX	2	2097	7/7	0.94	0.10	172,172,172,172	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3562	1/1	0.94	0.06	39,39,39,39	0
86	OHX	2	2100	7/7	0.94	0.09	165,165,165,165	0
86	OHX	6	2129	7/7	0.94	0.10	160,160,160,160	0
86	OHX	1	4092	7/7	0.94	0.09	167,167,167,167	0
85	MG	5	3854	1/1	0.94	0.18	73,73,73,73	0
86	OHX	1	4094	7/7	0.94	0.12	134,134,134,134	0
85	MG	1	3518	1/1	0.94	0.19	40,40,40,40	0
86	OHX	6	2135	7/7	0.94	0.09	160,160,160,160	0
86	OHX	2	2103	7/7	0.94	0.08	204,204,204,204	0
86	OHX	2	2104	7/7	0.94	0.10	143,143,143,143	0
85	MG	5	3518	1/1	0.94	0.06	39,39,39,39	0
85	MG	5	3432	1/1	0.94	0.23	40,40,40,40	0
85	MG	5	3521	1/1	0.94	0.29	39,39,39,39	0
85	MG	1	3727	1/1	0.94	0.29	69,69,69,69	0
86	OHX	2	2113	7/7	0.94	0.10	179,179,179,179	0
85	MG	6	1906	1/1	0.94	0.18	45,45,45,45	0
85	MG	5	3436	1/1	0.94	0.18	48,48,48,48	0
86	OHX	2	2117	7/7	0.94	0.09	171,171,171,171	0
85	MG	1	3774	1/1	0.94	0.11	54,54,54,54	0
85	MG	5	3527	1/1	0.94	0.18	33,33,33,33	0
85	MG	4	209	1/1	0.94	0.07	52,52,52,52	0
86	OHX	1	4112	7/7	0.94	0.10	147,147,147,147	0
85	MG	5	3529	1/1	0.94	0.23	41,41,41,41	0
85	MG	5	3743	1/1	0.94	0.12	54,54,54,54	0
86	OHX	1	4115	7/7	0.94	0.13	136,136,136,136	0
85	MG	1	3540	1/1	0.94	0.21	34,34,34,34	0
85	MG	5	3870	1/1	0.94	0.18	49,49,49,49	0
86	OHX	1	4119	7/7	0.94	0.10	164,164,164,164	0
85	MG	5	3442	1/1	0.94	0.10	40,40,40,40	0
86	OHX	2	2128	7/7	0.94	0.09	172,172,172,172	0
85	MG	5	3747	1/1	0.94	0.09	60,60,60,60	0
85	MG	1	3432	1/1	0.94	0.11	39,39,39,39	0
85	MG	5	3749	1/1	0.94	0.08	67,67,67,67	0
85	MG	2	1934	1/1	0.94	0.24	53,53,53,53	0
85	MG	5	3534	1/1	0.94	0.28	34,34,34,34	0
85	MG	5	3642	1/1	0.94	0.22	58,58,58,58	0
85	MG	5	3753	1/1	0.94	0.19	46,46,46,46	0
85	MG	6	1913	1/1	0.94	0.28	39,39,39,39	0
85	MG	2	1903	1/1	0.94	0.22	47,47,47,47	0
85	MG	1	3655	1/1	0.94	0.10	47,47,47,47	0
85	MG	1	3835	1/1	0.94	0.16	45,45,45,45	0
85	MG	5	3759	1/1	0.94	0.16	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3452	1/1	0.94	0.06	28,28,28,28	0
85	MG	1	3781	1/1	0.94	0.15	37,37,37,37	0
85	MG	1	3436	1/1	0.94	0.21	35,35,35,35	0
85	MG	1	3598	1/1	0.94	0.20	36,36,36,36	0
85	MG	5	4251	1/1	0.94	0.25	47,47,47,47	0
85	MG	1	3737	1/1	0.94	0.26	51,51,51,51	0
85	MG	1	3788	1/1	0.94	0.11	35,35,35,35	0
85	MG	1	3739	1/1	0.94	0.14	50,50,50,50	0
85	MG	L3	401	1/1	0.94	0.19	41,41,41,41	0
85	MG	L3	402	1/1	0.94	0.13	71,71,71,71	0
85	MG	5	3661	1/1	0.94	0.10	56,56,56,56	0
85	MG	L3	403	1/1	0.94	0.20	48,48,48,48	0
86	OHX	1	4148	7/7	0.94	0.12	157,157,157,157	0
85	MG	1	3660	1/1	0.94	0.14	56,56,56,56	0
85	MG	D3	201	1/1	0.94	0.15	54,54,54,54	0
85	MG	L4	402	1/1	0.94	0.09	74,74,74,74	0
86	OHX	1	4152	7/7	0.94	0.23	123,123,123,123	0
86	OHX	1	4153	7/7	0.94	0.11	139,139,139,139	0
85	MG	5	3557	1/1	0.94	0.32	38,38,38,38	0
85	MG	1	3698	1/1	0.94	0.09	43,43,43,43	0
85	MG	5	3672	1/1	0.94	0.08	44,44,44,44	0
85	MG	5	3561	1/1	0.94	0.31	24,24,24,24	0
85	MG	L7	301	1/1	0.94	0.08	39,39,39,39	0
85	MG	1	3699	1/1	0.94	0.32	48,48,48,48	0
85	MG	1	3490	1/1	0.94	0.19	36,36,36,36	0
85	MG	M0	303	1/1	0.94	0.10	41,41,41,41	0
85	MG	5	3569	1/1	0.94	0.30	24,24,24,24	0
85	MG	1	3799	1/1	0.94	0.28	44,44,44,44	0
86	OHX	2	2168	7/7	0.94	0.12	144,144,144,144	0
85	MG	1	3451	1/1	0.94	0.07	48,48,48,48	0
85	MG	5	3790	1/1	0.94	0.20	60,60,60,60	0
85	MG	1	3801	1/1	0.94	0.08	62,62,62,62	0
86	OHX	c5	201	7/7	0.94	0.09	181,181,181,181	0
85	MG	5	3574	1/1	0.94	0.24	30,30,30,30	0
85	MG	5	3575	1/1	0.94	0.18	30,30,30,30	0
86	OHX	5	3933	7/7	0.94	0.13	103,103,103,103	0
85	MG	1	3479	1/1	0.94	0.25	50,50,50,50	0
85	MG	1	3552	1/1	0.94	0.30	23,23,23,23	0
85	MG	5	3401	1/1	0.94	0.08	54,54,54,54	0
86	OHX	5	4021	7/7	0.94	0.16	115,115,115,115	0
86	OHX	5	4024	7/7	0.94	0.11	138,138,138,138	0
86	OHX	5	4030	7/7	0.94	0.09	157,157,157,157	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3402	1/1	0.94	0.09	54,54,54,54	0
85	MG	5	3482	1/1	0.94	0.31	54,54,54,54	0
86	OHX	5	4037	7/7	0.94	0.11	140,140,140,140	0
85	MG	1	3464	1/1	0.94	0.27	49,49,49,49	0
86	OHX	5	4043	7/7	0.94	0.25	121,121,121,121	0
86	OHX	5	4046	7/7	0.94	0.20	124,124,124,124	0
86	OHX	5	4047	7/7	0.94	0.13	127,127,127,127	0
85	MG	1	4212	1/1	0.94	0.10	34,34,34,34	0
86	OHX	1	4178	7/7	0.94	0.22	124,124,124,124	0
85	MG	5	3487	1/1	0.94	0.23	61,61,61,61	0
86	OHX	5	4059	7/7	0.94	0.12	137,137,137,137	0
86	OHX	7	228	7/7	0.94	0.12	142,142,142,142	0
85	MG	2	2012	1/1	0.94	0.15	66,66,66,66	0
86	OHX	C5	201	7/7	0.94	0.08	178,178,178,178	0
86	OHX	5	4064	7/7	0.94	0.12	141,141,141,141	0
86	OHX	8	223	7/7	0.94	0.11	153,153,153,153	0
85	MG	1	3638	1/1	0.94	0.09	62,62,62,62	0
86	OHX	5	4068	7/7	0.94	0.11	141,141,141,141	0
86	OHX	8	226	7/7	0.94	0.09	167,167,167,167	0
86	OHX	SR	401	7/7	0.94	0.08	196,196,196,196	0
86	OHX	5	4071	7/7	0.94	0.09	176,176,176,176	0
86	OHX	1	3946	7/7	0.94	0.14	112,112,112,112	0
85	MG	17	301	1/1	0.94	0.09	42,42,42,42	0
86	OHX	1	3971	7/7	0.94	0.29	109,109,109,109	0
86	OHX	5	4079	7/7	0.94	0.10	135,135,135,135	0
85	MG	5	3811	1/1	0.94	0.06	70,70,70,70	0
86	OHX	1	3973	7/7	0.94	0.11	131,131,131,131	0
86	OHX	5	4083	7/7	0.94	0.15	132,132,132,132	0
86	OHX	1	3978	7/7	0.94	0.12	124,124,124,124	0
85	MG	1	3406	1/1	0.94	0.20	45,45,45,45	0
85	MG	5	3814	1/1	0.94	0.20	64,64,64,64	0
85	MG	5	3491	1/1	0.94	0.11	51,51,51,51	0
85	MG	2	2004	1/1	0.94	0.07	89,89,89,89	0
86	OHX	5	4092	7/7	0.94	0.11	147,147,147,147	0
87	ZN	Q2	501	1/1	0.94	0.14	87,87,87,87	0
85	MG	1	3516	1/1	0.94	0.26	35,35,35,35	0
86	OHX	1	4026	7/7	0.94	0.11	150,150,150,150	0
85	MG	5	3410	1/1	0.94	0.29	52,52,52,52	0
86	OHX	4	229	7/7	0.95	0.11	126,126,126,126	0
86	OHX	4	230	7/7	0.95	0.09	136,136,136,136	0
86	OHX	1	4082	7/7	0.95	0.10	151,151,151,151	0
86	OHX	4	232	7/7	0.95	0.07	166,166,166,166	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3653	1/1	0.95	0.09	60,60,60,60	0
85	MG	1	3468	1/1	0.95	0.15	29,29,29,29	0
85	MG	5	3439	1/1	0.95	0.24	35,35,35,35	0
85	MG	1	3433	1/1	0.95	0.15	49,49,49,49	0
85	MG	1	3744	1/1	0.95	0.08	41,41,41,41	0
86	OHX	L3	405	7/7	0.95	0.10	141,141,141,141	0
85	MG	1	3591	1/1	0.95	0.17	21,21,21,21	0
86	OHX	1	4089	7/7	0.95	0.08	161,161,161,161	0
86	OHX	5	4098	7/7	0.95	0.08	173,173,173,173	0
86	OHX	5	4099	7/7	0.95	0.08	163,163,163,163	0
85	MG	1	3834	1/1	0.95	0.11	54,54,54,54	0
85	MG	8	212	1/1	0.95	0.09	67,67,67,67	0
85	MG	5	3445	1/1	0.95	0.16	47,47,47,47	0
86	OHX	2	2141	7/7	0.95	0.07	202,202,202,202	0
86	OHX	6	2063	7/7	0.95	0.12	114,114,114,114	0
86	OHX	6	2076	7/7	0.95	0.11	133,133,133,133	0
86	OHX	6	2083	7/7	0.95	0.10	135,135,135,135	0
86	OHX	6	2084	7/7	0.95	0.09	156,156,156,156	0
86	OHX	6	2085	7/7	0.95	0.12	124,124,124,124	0
85	MG	5	3662	1/1	0.95	0.06	40,40,40,40	0
85	MG	1	3709	1/1	0.95	0.12	54,54,54,54	0
86	OHX	6	2102	7/7	0.95	0.11	133,133,133,133	0
86	OHX	6	2104	7/7	0.95	0.10	141,141,141,141	0
85	MG	12	303	1/1	0.95	0.13	46,46,46,46	0
85	MG	5	3838	1/1	0.95	0.08	31,31,31,31	0
85	MG	1	3425	1/1	0.95	0.13	69,69,69,69	0
85	MG	1	3646	1/1	0.95	0.09	50,50,50,50	0
86	OHX	6	2114	7/7	0.95	0.08	146,146,146,146	0
86	OHX	6	2115	7/7	0.95	0.11	147,147,147,147	0
85	MG	1	3792	1/1	0.95	0.06	47,47,47,47	0
86	OHX	5	4121	7/7	0.95	0.08	160,160,160,160	0
85	MG	1	3713	1/1	0.95	0.11	48,48,48,48	0
85	MG	5	3516	1/1	0.95	0.17	26,26,26,26	0
86	OHX	6	2119	7/7	0.95	0.09	151,151,151,151	0
85	MG	5	3453	1/1	0.95	0.31	45,45,45,45	0
86	OHX	6	2122	7/7	0.95	0.09	164,164,164,164	0
86	OHX	6	2123	7/7	0.95	0.11	135,135,135,135	0
86	OHX	1	4106	7/7	0.95	0.14	132,132,132,132	0
86	OHX	6	2125	7/7	0.95	0.11	166,166,166,166	0
86	OHX	5	4131	7/7	0.95	0.10	157,157,157,157	0
85	MG	1	3751	1/1	0.95	0.18	29,29,29,29	0
85	MG	1	3551	1/1	0.95	0.12	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	5	3520	1/1	0.95	0.28	41,41,41,41	0
85	MG	2	1919	1/1	0.95	0.31	65,65,65,65	0
85	MG	2	1981	1/1	0.95	0.37	60,60,60,60	0
85	MG	4	219	1/1	0.95	0.25	43,43,43,43	0
86	OHX	5	4138	7/7	0.95	0.10	151,151,151,151	0
85	MG	1	3755	1/1	0.95	0.19	41,41,41,41	0
85	MG	2	1910	1/1	0.95	0.33	61,61,61,61	0
85	MG	1	3438	1/1	0.95	0.23	22,22,22,22	0
86	OHX	6	2137	7/7	0.95	0.10	148,148,148,148	0
85	MG	1	3653	1/1	0.95	0.18	42,42,42,42	0
85	MG	5	3602	1/1	0.95	0.09	38,38,38,38	0
86	OHX	1	4118	7/7	0.95	0.19	124,124,124,124	0
85	MG	1	3849	1/1	0.95	0.15	89,89,89,89	0
86	OHX	6	2143	7/7	0.95	0.09	166,166,166,166	0
85	MG	m7	205	1/1	0.95	0.39	44,44,44,44	0
85	MG	6	1961	1/1	0.95	0.10	50,50,50,50	0
85	MG	1	3759	1/1	0.95	0.22	47,47,47,47	0
85	MG	5	3689	1/1	0.95	0.08	55,55,55,55	0
85	MG	6	1912	1/1	0.95	0.23	52,52,52,52	0
85	MG	1	3685	1/1	0.95	0.10	37,37,37,37	0
85	MG	1	3579	1/1	0.95	0.23	33,33,33,33	0
85	MG	5	3535	1/1	0.95	0.16	42,42,42,42	0
85	MG	1	3475	1/1	0.95	0.19	43,43,43,43	0
86	OHX	6	2155	7/7	0.95	0.11	133,133,133,133	0
85	MG	5	3777	1/1	0.95	0.07	37,37,37,37	0
85	MG	o4	201	1/1	0.95	0.21	45,45,45,45	0
85	MG	1	3417	1/1	0.95	0.19	43,43,43,43	0
86	OHX	1	4132	7/7	0.95	0.15	122,122,122,122	0
85	MG	1	3607	1/1	0.95	0.14	45,45,45,45	0
85	MG	1	3452	1/1	0.95	0.17	37,37,37,37	0
85	MG	L7	302	1/1	0.95	0.23	47,47,47,47	0
85	MG	5	3542	1/1	0.95	0.10	43,43,43,43	0
86	OHX	2	2037	7/7	0.95	0.11	163,163,163,163	0
86	OHX	2	2050	7/7	0.95	0.18	123,123,123,123	0
86	OHX	2	2056	7/7	0.95	0.08	157,157,157,157	0
86	OHX	2	2062	7/7	0.95	0.08	151,151,151,151	0
86	OHX	2	2064	7/7	0.95	0.11	130,130,130,130	0
85	MG	5	3623	1/1	0.95	0.10	59,59,59,59	0
86	OHX	1	3903	7/7	0.95	0.19	103,103,103,103	0
86	OHX	6	2171	7/7	0.95	0.13	133,133,133,133	0
86	OHX	1	3943	7/7	0.95	0.11	132,132,132,132	0
85	MG	5	3477	1/1	0.95	0.19	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3956	7/7	0.95	0.14	112,112,112,112	0
86	OHX	1	4147	7/7	0.95	0.11	128,128,128,128	0
85	MG	5	3785	1/1	0.95	0.11	39,39,39,39	0
86	OHX	1	3966	7/7	0.95	0.12	129,129,129,129	0
85	MG	1	3609	1/1	0.95	0.26	42,42,42,42	0
85	MG	5	3881	1/1	0.95	0.14	56,56,56,56	0
85	MG	6	1972	1/1	0.95	0.20	72,72,72,72	0
86	OHX	1	3977	7/7	0.95	0.25	111,111,111,111	0
85	MG	1	3423	1/1	0.95	0.17	48,48,48,48	0
86	OHX	1	3983	7/7	0.95	0.11	131,131,131,131	0
86	OHX	1	3988	7/7	0.95	0.24	122,122,122,122	0
86	OHX	5	4189	7/7	0.95	0.08	195,195,195,195	0
86	OHX	1	3994	7/7	0.95	0.28	113,113,113,113	0
85	MG	5	3628	1/1	0.95	0.10	30,30,30,30	0
86	OHX	2	2082	7/7	0.95	0.09	159,159,159,159	0
86	OHX	1	4000	7/7	0.95	0.10	137,137,137,137	0
86	OHX	1	4002	7/7	0.95	0.09	127,127,127,127	0
86	OHX	1	4003	7/7	0.95	0.10	142,142,142,142	0
86	OHX	2	2085	7/7	0.95	0.10	137,137,137,137	0
86	OHX	1	4005	7/7	0.95	0.10	148,148,148,148	0
86	OHX	1	4006	7/7	0.95	0.10	148,148,148,148	0
86	OHX	1	4011	7/7	0.95	0.08	160,160,160,160	0
85	MG	M0	302	1/1	0.95	0.09	38,38,38,38	0
86	OHX	1	4017	7/7	0.95	0.08	162,162,162,162	0
86	OHX	1	4020	7/7	0.95	0.08	147,147,147,147	0
86	OHX	2	2090	7/7	0.95	0.09	159,159,159,159	0
86	OHX	1	4023	7/7	0.95	0.10	154,154,154,154	0
86	OHX	2	2091	7/7	0.95	0.13	134,134,134,134	0
85	MG	5	3791	1/1	0.95	0.11	42,42,42,42	0
86	OHX	1	4032	7/7	0.95	0.08	163,163,163,163	0
86	OHX	1	4033	7/7	0.95	0.11	144,144,144,144	0
86	OHX	1	4034	7/7	0.95	0.11	137,137,137,137	0
86	OHX	2	2093	7/7	0.95	0.08	173,173,173,173	0
86	OHX	2	2096	7/7	0.95	0.08	186,186,186,186	0
85	MG	1	3424	1/1	0.95	0.17	34,34,34,34	0
85	MG	5	3483	1/1	0.95	0.26	51,51,51,51	0
85	MG	5	3891	1/1	0.95	0.17	41,41,41,41	0
86	OHX	c8	202	7/7	0.95	0.09	163,163,163,163	0
85	MG	3	205	1/1	0.95	0.12	37,37,37,37	0
85	MG	5	4250	1/1	0.95	0.19	34,34,34,34	0
86	OHX	sR	401	7/7	0.95	0.08	182,182,182,182	0
85	MG	1	3771	1/1	0.95	0.12	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4049	7/7	0.95	0.21	120,120,120,120	0
86	OHX	5	3959	7/7	0.95	0.12	112,112,112,112	0
86	OHX	5	3970	7/7	0.95	0.14	110,110,110,110	0
86	OHX	5	3984	7/7	0.95	0.27	108,108,108,108	0
86	OHX	5	3985	7/7	0.95	0.14	124,124,124,124	0
86	OHX	5	3987	7/7	0.95	0.09	150,150,150,150	0
86	OHX	5	3988	7/7	0.95	0.11	134,134,134,134	0
86	OHX	5	3992	7/7	0.95	0.10	122,122,122,122	0
86	OHX	5	3995	7/7	0.95	0.24	89,89,89,89	0
85	MG	1	3664	1/1	0.95	0.27	55,55,55,55	0
86	OHX	5	3999	7/7	0.95	0.09	135,135,135,135	0
86	OHX	5	4007	7/7	0.95	0.15	122,122,122,122	0
86	OHX	1	4052	7/7	0.95	0.11	136,136,136,136	0
86	OHX	5	4012	7/7	0.95	0.11	129,129,129,129	0
86	OHX	5	4016	7/7	0.95	0.11	132,132,132,132	0
86	OHX	5	4019	7/7	0.95	0.10	135,135,135,135	0
86	OHX	5	4020	7/7	0.95	0.23	118,118,118,118	0
86	OHX	1	4189	7/7	0.95	0.09	184,184,184,184	0
85	MG	5	3715	1/1	0.95	0.17	48,48,48,48	0
85	MG	5	3635	1/1	0.95	0.13	54,54,54,54	0
86	OHX	1	4056	7/7	0.95	0.08	169,169,169,169	0
86	OHX	5	4033	7/7	0.95	0.27	112,112,112,112	0
86	OHX	5	4035	7/7	0.95	0.10	170,170,170,170	0
85	MG	7	203	1/1	0.95	0.13	23,23,23,23	0
85	MG	5	3553	1/1	0.95	0.30	43,43,43,43	0
85	MG	5	3805	1/1	0.95	0.07	44,44,44,44	0
86	OHX	5	4041	7/7	0.95	0.09	149,149,149,149	0
86	OHX	5	4042	7/7	0.95	0.09	133,133,133,133	0
85	MG	3	210	1/1	0.95	0.38	52,52,52,52	0
86	OHX	5	4044	7/7	0.95	0.08	151,151,151,151	0
86	OHX	8	217	7/7	0.95	0.17	126,126,126,126	0
86	OHX	1	4061	7/7	0.95	0.07	164,164,164,164	0
85	MG	5	3555	1/1	0.95	0.29	25,25,25,25	0
86	OHX	5	4048	7/7	0.95	0.11	126,126,126,126	0
85	MG	1	3697	1/1	0.95	0.15	50,50,50,50	0
85	MG	5	3426	1/1	0.95	0.09	46,46,46,46	0
86	OHX	5	4055	7/7	0.95	0.16	128,128,128,128	0
86	OHX	5	4056	7/7	0.95	0.10	142,142,142,142	0
85	MG	1	3510	1/1	0.95	0.19	37,37,37,37	0
86	OHX	2	2120	7/7	0.95	0.09	169,169,169,169	0
85	MG	6	1982	1/1	0.95	0.29	56,56,56,56	0
85	MG	1	3614	1/1	0.95	0.19	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	M7	205	1/1	0.95	0.13	45,45,45,45	0
85	MG	1	3700	1/1	0.95	0.20	41,41,41,41	0
86	OHX	5	4066	7/7	0.95	0.10	148,148,148,148	0
85	MG	5	3817	1/1	0.95	0.08	43,43,43,43	0
86	OHX	5	4069	7/7	0.95	0.12	143,143,143,143	0
86	OHX	2	2126	7/7	0.95	0.10	158,158,158,158	0
85	MG	1	3545	1/1	0.95	0.14	43,43,43,43	0
85	MG	1	3467	1/1	0.95	0.11	48,48,48,48	0
86	OHX	m5	306	7/7	0.95	0.10	145,145,145,145	0
85	MG	N3	202	1/1	0.95	0.15	63,63,63,63	0
86	OHX	o7	103	7/7	0.95	0.25	126,126,126,126	0
85	MG	1	3670	1/1	0.95	0.10	36,36,36,36	0
86	OHX	5	4077	7/7	0.95	0.09	143,143,143,143	0
86	OHX	1	4080	7/7	0.95	0.10	150,150,150,150	0
86	OHX	3	225	7/7	0.95	0.10	165,165,165,165	0
86	OHX	4	226	7/7	0.95	0.22	112,112,112,112	0
86	OHX	1	4070	7/7	0.96	0.09	133,133,133,133	0
86	OHX	5	4074	7/7	0.96	0.08	141,141,141,141	0
86	OHX	5	4075	7/7	0.96	0.20	125,125,125,125	0
85	MG	5	3683	1/1	0.96	0.10	58,58,58,58	0
85	MG	5	3511	1/1	0.96	0.33	23,23,23,23	0
86	OHX	5	4078	7/7	0.96	0.07	156,156,156,156	0
85	MG	3	204	1/1	0.96	0.36	34,34,34,34	0
86	OHX	5	4080	7/7	0.96	0.09	147,147,147,147	0
86	OHX	6	2065	7/7	0.96	0.10	146,146,146,146	0
86	OHX	6	2070	7/7	0.96	0.08	125,125,125,125	0
86	OHX	6	2071	7/7	0.96	0.15	108,108,108,108	0
86	OHX	5	4085	7/7	0.96	0.17	127,127,127,127	0
85	MG	1	3823	1/1	0.96	0.28	43,43,43,43	0
86	OHX	6	2077	7/7	0.96	0.16	111,111,111,111	0
86	OHX	5	4088	7/7	0.96	0.10	141,141,141,141	0
85	MG	3	206	1/1	0.96	0.30	25,25,25,25	0
85	MG	5	3515	1/1	0.96	0.26	24,24,24,24	0
85	MG	6	1926	1/1	0.96	0.16	51,51,51,51	0
86	OHX	6	2087	7/7	0.96	0.09	146,146,146,146	0
86	OHX	6	2091	7/7	0.96	0.08	140,140,140,140	0
85	MG	M3	201	1/1	0.96	0.05	45,45,45,45	0
86	OHX	6	2097	7/7	0.96	0.08	131,131,131,131	0
85	MG	5	3794	1/1	0.96	0.06	36,36,36,36	0
85	MG	5	3795	1/1	0.96	0.16	42,42,42,42	0
85	MG	5	3447	1/1	0.96	0.08	50,50,50,50	0
86	OHX	6	2105	7/7	0.96	0.10	138,138,138,138	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3536	1/1	0.96	0.22	44,44,44,44	0
86	OHX	6	2110	7/7	0.96	0.09	144,144,144,144	0
85	MG	5	3693	1/1	0.96	0.14	43,43,43,43	0
85	MG	3	208	1/1	0.96	0.06	50,50,50,50	0
85	MG	1	3702	1/1	0.96	0.08	69,69,69,69	0
85	MG	5	3696	1/1	0.96	0.14	37,37,37,37	0
85	MG	M6	201	1/1	0.96	0.05	43,43,43,43	0
85	MG	5	3804	1/1	0.96	0.16	47,47,47,47	0
85	MG	1	3729	1/1	0.96	0.19	61,61,61,61	0
85	MG	5	3524	1/1	0.96	0.09	22,22,22,22	0
85	MG	5	3607	1/1	0.96	0.17	46,46,46,46	0
85	MG	5	3608	1/1	0.96	0.23	45,45,45,45	0
86	OHX	6	2121	7/7	0.96	0.08	163,163,163,163	0
85	MG	5	3609	1/1	0.96	0.05	43,43,43,43	0
85	MG	5	3610	1/1	0.96	0.05	35,35,35,35	0
85	MG	M7	202	1/1	0.96	0.22	33,33,33,33	0
85	MG	c1	201	1/1	0.96	0.24	55,55,55,55	0
85	MG	5	3456	1/1	0.96	0.14	84,84,84,84	0
86	OHX	1	4099	7/7	0.96	0.09	138,138,138,138	0
86	OHX	6	2128	7/7	0.96	0.10	164,164,164,164	0
85	MG	1	3495	1/1	0.96	0.12	37,37,37,37	0
85	MG	5	3816	1/1	0.96	0.17	78,78,78,78	0
85	MG	1	3512	1/1	0.96	0.15	25,25,25,25	0
85	MG	1	3656	1/1	0.96	0.07	38,38,38,38	0
85	MG	5	3819	1/1	0.96	0.10	41,41,41,41	0
86	OHX	5	4126	7/7	0.96	0.09	127,127,127,127	0
85	MG	5	3460	1/1	0.96	0.17	33,33,33,33	0
85	MG	5	3618	1/1	0.96	0.17	62,62,62,62	0
85	MG	1	3830	1/1	0.96	0.23	64,64,64,64	0
85	MG	1	3794	1/1	0.96	0.15	63,63,63,63	0
85	MG	1	3706	1/1	0.96	0.26	36,36,36,36	0
85	MG	d3	202	1/1	0.96	0.11	63,63,63,63	0
85	MG	1	3833	1/1	0.96	0.19	31,31,31,31	0
85	MG	1	3762	1/1	0.96	0.08	102,102,102,102	0
85	MG	1	3798	1/1	0.96	0.09	41,41,41,41	0
86	OHX	6	2145	7/7	0.96	0.10	154,154,154,154	0
85	MG	N6	201	1/1	0.96	0.33	46,46,46,46	0
85	MG	N6	202	1/1	0.96	0.26	38,38,38,38	0
85	MG	1	3570	1/1	0.96	0.21	22,22,22,22	0
86	OHX	6	2149	7/7	0.96	0.11	127,127,127,127	0
85	MG	6	1947	1/1	0.96	0.21	40,40,40,40	0
85	MG	N8	204	1/1	0.96	0.10	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	4	206	1/1	0.96	0.18	19,19,19,19	0
85	MG	1	3735	1/1	0.96	0.17	48,48,48,48	0
85	MG	1	3618	1/1	0.96	0.07	42,42,42,42	0
85	MG	1	3556	1/1	0.96	0.17	29,29,29,29	0
85	MG	4	210	1/1	0.96	0.08	54,54,54,54	0
85	MG	1	3603	1/1	0.96	0.38	45,45,45,45	0
85	MG	5	3733	1/1	0.96	0.27	28,28,28,28	0
86	OHX	5	4150	7/7	0.96	0.10	132,132,132,132	0
85	MG	1	3572	1/1	0.96	0.15	15,15,15,15	0
85	MG	1	3547	1/1	0.96	0.11	36,36,36,36	0
85	MG	o3	201	1/1	0.96	0.33	47,47,47,47	0
85	MG	1	3843	1/1	0.96	0.07	49,49,49,49	0
85	MG	6	1958	1/1	0.96	0.34	57,57,57,57	0
85	MG	1	3606	1/1	0.96	0.22	48,48,48,48	0
85	MG	5	3643	1/1	0.96	0.31	51,51,51,51	0
86	OHX	D3	202	7/7	0.96	0.12	114,114,114,114	0
85	MG	1	3420	1/1	0.96	0.11	40,40,40,40	0
85	MG	2	1945	1/1	0.96	0.12	76,76,76,76	0
85	MG	q0	3603	1/1	0.96	0.08	47,47,47,47	0
86	OHX	1	3913	7/7	0.96	0.13	123,123,123,123	0
86	OHX	1	3918	7/7	0.96	0.18	94,94,94,94	0
86	OHX	1	3921	7/7	0.96	0.13	114,114,114,114	0
86	OHX	1	3934	7/7	0.96	0.15	109,109,109,109	0
86	OHX	1	3935	7/7	0.96	0.25	104,104,104,104	0
86	OHX	1	3938	7/7	0.96	0.11	120,120,120,120	0
86	OHX	1	3940	7/7	0.96	0.09	127,127,127,127	0
85	MG	1	3627	1/1	0.96	0.21	31,31,31,31	0
86	OHX	1	3945	7/7	0.96	0.10	125,125,125,125	0
85	MG	5	3647	1/1	0.96	0.10	39,39,39,39	0
86	OHX	1	3955	7/7	0.96	0.07	142,142,142,142	0
86	OHX	2	2039	7/7	0.96	0.10	112,112,112,112	0
86	OHX	2	2049	7/7	0.96	0.08	136,136,136,136	0
86	OHX	1	3964	7/7	0.96	0.10	131,131,131,131	0
86	OHX	1	3965	7/7	0.96	0.15	120,120,120,120	0
85	MG	5	3746	1/1	0.96	0.10	49,49,49,49	0
86	OHX	1	3970	7/7	0.96	0.20	103,103,103,103	0
86	OHX	2	2055	7/7	0.96	0.09	143,143,143,143	0
85	MG	5	3559	1/1	0.96	0.28	23,23,23,23	0
86	OHX	2	2061	7/7	0.96	0.09	144,144,144,144	0
86	OHX	1	3976	7/7	0.96	0.15	125,125,125,125	0
85	MG	1	3502	1/1	0.96	0.15	29,29,29,29	0
86	OHX	2	2063	7/7	0.96	0.20	128,128,128,128	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4185	7/7	0.96	0.08	157,157,157,157	0
86	OHX	1	3981	7/7	0.96	0.09	136,136,136,136	0
85	MG	1	3509	1/1	0.96	0.14	34,34,34,34	0
86	OHX	1	3984	7/7	0.96	0.19	127,127,127,127	0
86	OHX	1	3985	7/7	0.96	0.09	139,139,139,139	0
86	OHX	1	3987	7/7	0.96	0.09	145,145,145,145	0
85	MG	5	3564	1/1	0.96	0.26	50,50,50,50	0
86	OHX	1	3990	7/7	0.96	0.19	121,121,121,121	0
86	OHX	1	3993	7/7	0.96	0.10	127,127,127,127	0
86	OHX	2	2068	7/7	0.96	0.11	133,133,133,133	0
85	MG	1	3850	1/1	0.96	0.34	53,53,53,53	0
85	MG	5	3566	1/1	0.96	0.17	30,30,30,30	0
86	OHX	1	3999	7/7	0.96	0.09	140,140,140,140	0
85	MG	5	3424	1/1	0.96	0.15	38,38,38,38	0
86	OHX	1	4001	7/7	0.96	0.13	123,123,123,123	0
85	MG	5	3868	1/1	0.96	0.36	31,31,31,31	0
86	OHX	2	2076	7/7	0.96	0.08	143,143,143,143	0
85	MG	1	3611	1/1	0.96	0.06	39,39,39,39	0
86	OHX	2	2078	7/7	0.96	0.11	145,145,145,145	0
85	MG	4	223	1/1	0.96	0.08	86,86,86,86	0
86	OHX	1	4008	7/7	0.96	0.09	149,149,149,149	0
86	OHX	1	4009	7/7	0.96	0.08	143,143,143,143	0
86	OHX	1	4010	7/7	0.96	0.10	131,131,131,131	0
86	OHX	5	3954	7/7	0.96	0.13	119,119,119,119	0
86	OHX	5	3956	7/7	0.96	0.15	113,113,113,113	0
85	MG	5	3570	1/1	0.96	0.22	48,48,48,48	0
86	OHX	1	4013	7/7	0.96	0.08	146,146,146,146	0
86	OHX	5	3960	7/7	0.96	0.19	108,108,108,108	0
86	OHX	5	3964	7/7	0.96	0.20	105,105,105,105	0
86	OHX	5	3967	7/7	0.96	0.10	125,125,125,125	0
86	OHX	1	4014	7/7	0.96	0.09	131,131,131,131	0
86	OHX	5	3973	7/7	0.96	0.09	129,129,129,129	0
86	OHX	5	3974	7/7	0.96	0.18	107,107,107,107	0
85	MG	5	3872	1/1	0.96	0.06	40,40,40,40	0
86	OHX	1	4016	7/7	0.96	0.09	135,135,135,135	0
86	OHX	2	2083	7/7	0.96	0.11	146,146,146,146	0
86	OHX	1	4018	7/7	0.96	0.07	169,169,169,169	0
86	OHX	5	3989	7/7	0.96	0.18	122,122,122,122	0
86	OHX	2	2084	7/7	0.96	0.08	161,161,161,161	0
85	MG	5	3659	1/1	0.96	0.11	75,75,75,75	0
85	MG	1	3852	1/1	0.96	0.22	78,78,78,78	0
86	OHX	1	4024	7/7	0.96	0.08	156,156,156,156	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	5	4005	7/7	0.96	0.12	120,120,120,120	0
85	MG	5	3496	1/1	0.96	0.17	40,40,40,40	0
86	OHX	1	4028	7/7	0.96	0.10	130,130,130,130	0
86	OHX	5	4011	7/7	0.96	0.08	145,145,145,145	0
85	MG	1	3650	1/1	0.96	0.20	46,46,46,46	0
86	OHX	5	4015	7/7	0.96	0.08	144,144,144,144	0
85	MG	5	3762	1/1	0.96	0.13	58,58,58,58	0
85	MG	1	3674	1/1	0.96	0.20	54,54,54,54	0
86	OHX	2	2094	7/7	0.96	0.08	170,170,170,170	0
86	OHX	2	2095	7/7	0.96	0.09	159,159,159,159	0
86	OHX	5	4022	7/7	0.96	0.21	108,108,108,108	0
85	MG	1	3816	1/1	0.96	0.34	46,46,46,46	0
86	OHX	5	4025	7/7	0.96	0.07	166,166,166,166	0
86	OHX	5	4026	7/7	0.96	0.15	125,125,125,125	0
86	OHX	5	4029	7/7	0.96	0.09	138,138,138,138	0
85	MG	5	3665	1/1	0.96	0.24	51,51,51,51	0
86	OHX	2	2098	7/7	0.96	0.09	141,141,141,141	0
86	OHX	5	4032	7/7	0.96	0.07	149,149,149,149	0
86	OHX	1	4043	7/7	0.96	0.08	153,153,153,153	0
86	OHX	7	225	7/7	0.96	0.08	154,154,154,154	0
85	MG	1	3782	1/1	0.96	0.59	33,33,33,33	0
85	MG	5	3882	1/1	0.96	0.29	33,33,33,33	0
85	MG	5	3667	1/1	0.96	0.18	66,66,66,66	0
85	MG	5	3668	1/1	0.96	0.40	36,36,36,36	0
86	OHX	5	4039	7/7	0.96	0.09	148,148,148,148	0
86	OHX	8	218	7/7	0.96	0.08	153,153,153,153	0
86	OHX	5	4040	7/7	0.96	0.13	126,126,126,126	0
86	OHX	8	220	7/7	0.96	0.10	140,140,140,140	0
85	MG	5	3577	1/1	0.96	0.18	26,26,26,26	0
86	OHX	8	222	7/7	0.96	0.07	166,166,166,166	0
86	OHX	3	219	7/7	0.96	0.08	131,131,131,131	0
86	OHX	3	220	7/7	0.96	0.08	144,144,144,144	0
86	OHX	3	221	7/7	0.96	0.09	145,145,145,145	0
85	MG	5	3578	1/1	0.96	0.36	27,27,27,27	0
85	MG	1	3784	1/1	0.96	0.10	94,94,94,94	0
86	OHX	2	2106	7/7	0.96	0.11	129,129,129,129	0
85	MG	1	4213	1/1	0.96	0.07	35,35,35,35	0
86	OHX	5	4051	7/7	0.96	0.08	148,148,148,148	0
86	OHX	5	4053	7/7	0.96	0.08	134,134,134,134	0
86	OHX	2	2110	7/7	0.96	0.10	128,128,128,128	0
85	MG	5	3435	1/1	0.96	0.06	37,37,37,37	0
85	MG	5	3890	1/1	0.96	0.10	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4214	1/1	0.96	0.07	72,72,72,72	0
85	MG	5	3584	1/1	0.96	0.34	20,20,20,20	0
86	OHX	5	4061	7/7	0.96	0.08	139,139,139,139	0
85	MG	5	3505	1/1	0.96	0.19	31,31,31,31	0
85	MG	1	3412	1/1	0.96	0.15	42,42,42,42	0
85	MG	1	3820	1/1	0.96	0.13	57,57,57,57	0
86	OHX	1	4064	7/7	0.96	0.11	140,140,140,140	0
85	MG	5	3679	1/1	0.96	0.09	44,44,44,44	0
85	MG	1	3724	1/1	0.96	0.14	70,70,70,70	0
85	MG	5	3440	1/1	0.96	0.14	40,40,40,40	0
85	MG	1	3566	1/1	0.96	0.22	30,30,30,30	0
87	ZN	q2	501	1/1	0.96	0.13	98,98,98,98	0
86	OHX	M0	304	7/7	0.96	0.11	118,118,118,118	0
86	OHX	1	4069	7/7	0.96	0.08	133,133,133,133	0
85	MG	5	3711	1/1	0.97	0.26	72,72,72,72	0
86	OHX	6	2202	7/7	0.97	0.05	228,228,228,228	0
86	OHX	M5	303	7/7	0.97	0.09	130,130,130,130	0
85	MG	5	3429	1/1	0.97	0.06	41,41,41,41	0
85	MG	5	3824	1/1	0.97	0.10	56,56,56,56	0
85	MG	5	3652	1/1	0.97	0.18	37,37,37,37	0
86	OHX	O1	202	7/7	0.97	0.07	135,135,135,135	0
85	MG	1	3519	1/1	0.97	0.08	39,39,39,39	0
86	OHX	O7	104	7/7	0.97	0.10	112,112,112,112	0
86	OHX	O7	105	7/7	0.97	0.21	107,107,107,107	0
86	OHX	2	2108	7/7	0.97	0.07	170,170,170,170	0
86	OHX	1	4021	7/7	0.97	0.08	140,140,140,140	0
86	OHX	2	2109	7/7	0.97	0.06	152,152,152,152	0
85	MG	8	206	1/1	0.97	0.11	74,74,74,74	0
86	OHX	5	3915	7/7	0.97	0.14	83,83,83,83	0
86	OHX	6	2072	7/7	0.97	0.08	142,142,142,142	0
86	OHX	5	3944	7/7	0.97	0.18	117,117,117,117	0
86	OHX	5	3953	7/7	0.97	0.09	93,93,93,93	0
86	OHX	6	2073	7/7	0.97	0.06	157,157,157,157	0
86	OHX	6	2075	7/7	0.97	0.11	125,125,125,125	0
85	MG	5	3537	1/1	0.97	0.15	21,21,21,21	0
86	OHX	1	4025	7/7	0.97	0.17	126,126,126,126	0
85	MG	6	2017	1/1	0.97	0.05	33,33,33,33	0
86	OHX	5	3961	7/7	0.97	0.09	110,110,110,110	0
85	MG	1	3415	1/1	0.97	0.07	58,58,58,58	0
86	OHX	1	4029	7/7	0.97	0.06	163,163,163,163	0
86	OHX	5	3968	7/7	0.97	0.11	109,109,109,109	0
86	OHX	6	2086	7/7	0.97	0.07	138,138,138,138	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3972	7/7	0.97	0.12	109,109,109,109	0
86	OHX	1	4030	7/7	0.97	0.18	111,111,111,111	0
86	OHX	6	2089	7/7	0.97	0.09	121,121,121,121	0
86	OHX	5	3976	7/7	0.97	0.19	116,116,116,116	0
86	OHX	5	3980	7/7	0.97	0.08	119,119,119,119	0
86	OHX	5	3983	7/7	0.97	0.17	120,120,120,120	0
86	OHX	2	2114	7/7	0.97	0.10	146,146,146,146	0
86	OHX	6	2092	7/7	0.97	0.11	126,126,126,126	0
86	OHX	5	3986	7/7	0.97	0.21	108,108,108,108	0
86	OHX	2	2035	7/7	0.97	0.12	112,112,112,112	0
86	OHX	6	2095	7/7	0.97	0.08	142,142,142,142	0
85	MG	1	3455	1/1	0.97	0.11	26,26,26,26	0
86	OHX	6	2098	7/7	0.97	0.06	181,181,181,181	0
86	OHX	5	3994	7/7	0.97	0.10	127,127,127,127	0
85	MG	1	3773	1/1	0.97	0.06	46,46,46,46	0
86	OHX	6	2100	7/7	0.97	0.07	192,192,192,192	0
86	OHX	5	3998	7/7	0.97	0.18	116,116,116,116	0
86	OHX	6	2101	7/7	0.97	0.08	124,124,124,124	0
86	OHX	5	4003	7/7	0.97	0.12	127,127,127,127	0
86	OHX	5	4004	7/7	0.97	0.09	129,129,129,129	0
86	OHX	1	4035	7/7	0.97	0.08	133,133,133,133	0
86	OHX	5	4006	7/7	0.97	0.08	161,161,161,161	0
86	OHX	6	2103	7/7	0.97	0.07	144,144,144,144	0
86	OHX	5	4008	7/7	0.97	0.15	117,117,117,117	0
86	OHX	5	4009	7/7	0.97	0.08	134,134,134,134	0
86	OHX	2	2042	7/7	0.97	0.09	132,132,132,132	0
86	OHX	2	2045	7/7	0.97	0.10	127,127,127,127	0
86	OHX	1	4039	7/7	0.97	0.12	125,125,125,125	0
86	OHX	5	4013	7/7	0.97	0.09	138,138,138,138	0
86	OHX	5	4014	7/7	0.97	0.17	122,122,122,122	0
86	OHX	6	2107	7/7	0.97	0.10	130,130,130,130	0
86	OHX	6	2108	7/7	0.97	0.07	144,144,144,144	0
86	OHX	5	4017	7/7	0.97	0.15	125,125,125,125	0
86	OHX	5	4018	7/7	0.97	0.07	144,144,144,144	0
86	OHX	6	2109	7/7	0.97	0.08	131,131,131,131	0
86	OHX	2	2048	7/7	0.97	0.07	139,139,139,139	0
86	OHX	1	3889	7/7	0.97	0.10	87,87,87,87	0
86	OHX	1	4042	7/7	0.97	0.08	140,140,140,140	0
86	OHX	5	4023	7/7	0.97	0.17	105,105,105,105	0
86	OHX	1	3892	7/7	0.97	0.15	95,95,95,95	0
85	MG	5	3833	1/1	0.97	0.08	76,76,76,76	0
86	OHX	1	3907	7/7	0.97	0.09	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4027	7/7	0.97	0.10	126,126,126,126	0
85	MG	5	3792	1/1	0.97	0.36	49,49,49,49	0
86	OHX	1	3914	7/7	0.97	0.13	103,103,103,103	0
86	OHX	2	2052	7/7	0.97	0.07	148,148,148,148	0
86	OHX	1	4050	7/7	0.97	0.07	164,164,164,164	0
86	OHX	2	2053	7/7	0.97	0.08	140,140,140,140	0
86	OHX	5	4034	7/7	0.97	0.08	151,151,151,151	0
86	OHX	1	3923	7/7	0.97	0.17	104,104,104,104	0
86	OHX	1	3925	7/7	0.97	0.10	118,118,118,118	0
86	OHX	1	4054	7/7	0.97	0.07	183,183,183,183	0
86	OHX	1	3928	7/7	0.97	0.09	115,115,115,115	0
86	OHX	1	3930	7/7	0.97	0.11	108,108,108,108	0
86	OHX	1	3931	7/7	0.97	0.14	104,104,104,104	0
86	OHX	1	3932	7/7	0.97	0.09	105,105,105,105	0
86	OHX	2	2054	7/7	0.97	0.08	132,132,132,132	0
85	MG	1	3725	1/1	0.97	0.18	39,39,39,39	0
86	OHX	6	2130	7/7	0.97	0.08	133,133,133,133	0
86	OHX	5	4045	7/7	0.97	0.15	126,126,126,126	0
85	MG	5	3837	1/1	0.97	0.21	56,56,56,56	0
86	OHX	5	4212	7/7	0.97	0.18	119,119,119,119	0
86	OHX	1	3939	7/7	0.97	0.09	104,104,104,104	0
86	OHX	1	4169	7/7	0.97	0.12	125,125,125,125	0
86	OHX	2	2057	7/7	0.97	0.09	126,126,126,126	0
86	OHX	1	3941	7/7	0.97	0.13	124,124,124,124	0
86	OHX	5	4052	7/7	0.97	0.07	161,161,161,161	0
86	OHX	1	3942	7/7	0.97	0.10	128,128,128,128	0
86	OHX	2	2059	7/7	0.97	0.08	130,130,130,130	0
86	OHX	2	2130	7/7	0.97	0.10	136,136,136,136	0
86	OHX	2	2060	7/7	0.97	0.08	138,138,138,138	0
86	OHX	1	3948	7/7	0.97	0.14	111,111,111,111	0
86	OHX	5	4058	7/7	0.97	0.06	170,170,170,170	0
86	OHX	1	3954	7/7	0.97	0.19	116,116,116,116	0
85	MG	1	3439	1/1	0.97	0.15	31,31,31,31	0
85	MG	1	3776	1/1	0.97	0.09	39,39,39,39	0
85	MG	5	3758	1/1	0.97	0.07	50,50,50,50	0
86	OHX	1	3960	7/7	0.97	0.14	112,112,112,112	0
86	OHX	1	3962	7/7	0.97	0.13	120,120,120,120	0
85	MG	5	3841	1/1	0.97	0.04	42,42,42,42	0
85	MG	N8	201	1/1	0.97	0.10	32,32,32,32	0
85	MG	l5	301	1/1	0.97	0.24	39,39,39,39	0
86	OHX	1	3967	7/7	0.97	0.07	135,135,135,135	0
86	OHX	1	3968	7/7	0.97	0.08	124,124,124,124	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4081	7/7	0.97	0.06	192,192,192,192	0
85	MG	1	3795	1/1	0.97	0.07	67,67,67,67	0
86	OHX	2	2071	7/7	0.97	0.08	137,137,137,137	0
85	MG	2	1911	1/1	0.97	0.32	54,54,54,54	0
85	MG	5	3606	1/1	0.97	0.16	35,35,35,35	0
86	OHX	1	3974	7/7	0.97	0.23	98,98,98,98	0
85	MG	1	3671	1/1	0.97	0.14	83,83,83,83	0
85	MG	m0	301	1/1	0.97	0.06	35,35,35,35	0
85	MG	1	3684	1/1	0.97	0.22	49,49,49,49	0
86	OHX	1	3979	7/7	0.97	0.07	136,136,136,136	0
86	OHX	1	3980	7/7	0.97	0.09	138,138,138,138	0
85	MG	5	3730	1/1	0.97	0.19	48,48,48,48	0
86	OHX	5	4084	7/7	0.97	0.17	118,118,118,118	0
86	OHX	7	220	7/7	0.97	0.12	115,115,115,115	0
86	OHX	7	221	7/7	0.97	0.20	109,109,109,109	0
86	OHX	7	222	7/7	0.97	0.14	114,114,114,114	0
86	OHX	7	223	7/7	0.97	0.07	118,118,118,118	0
86	OHX	7	224	7/7	0.97	0.09	123,123,123,123	0
86	OHX	1	3982	7/7	0.97	0.14	116,116,116,116	0
85	MG	1	3559	1/1	0.97	0.22	28,28,28,28	0
85	MG	5	3767	1/1	0.97	0.10	45,45,45,45	0
86	OHX	2	2081	7/7	0.97	0.07	167,167,167,167	0
86	OHX	1	3986	7/7	0.97	0.07	144,144,144,144	0
85	MG	1	3602	1/1	0.97	0.06	68,68,68,68	0
85	MG	6	1983	1/1	0.97	0.09	59,59,59,59	0
86	OHX	1	3989	7/7	0.97	0.08	149,149,149,149	0
86	OHX	1	4101	7/7	0.97	0.06	163,163,163,163	0
85	MG	1	3445	1/1	0.97	0.24	34,34,34,34	0
86	OHX	1	3991	7/7	0.97	0.07	171,171,171,171	0
86	OHX	3	216	7/7	0.97	0.11	108,108,108,108	0
86	OHX	3	217	7/7	0.97	0.09	127,127,127,127	0
85	MG	1	3783	1/1	0.97	0.10	81,81,81,81	0
86	OHX	2	2086	7/7	0.97	0.08	148,148,148,148	0
85	MG	m7	201	1/1	0.97	0.19	39,39,39,39	0
86	OHX	1	3996	7/7	0.97	0.14	115,115,115,115	0
86	OHX	2	2088	7/7	0.97	0.09	135,135,135,135	0
85	MG	1	3446	1/1	0.97	0.08	32,32,32,32	0
85	MG	5	3812	1/1	0.97	0.11	63,63,63,63	0
86	OHX	5	4105	7/7	0.97	0.20	110,110,110,110	0
85	MG	1	3592	1/1	0.97	0.40	20,20,20,20	0
86	OHX	4	227	7/7	0.97	0.07	135,135,135,135	0
86	OHX	4	228	7/7	0.97	0.08	141,141,141,141	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	5	3450	1/1	0.97	0.15	38,38,38,38	0
86	OHX	m0	302	7/7	0.97	0.08	133,133,133,133	0
85	MG	3	202	1/1	0.97	0.06	42,42,42,42	0
85	MG	5	3740	1/1	0.97	0.08	73,73,73,73	0
85	MG	6	1944	1/1	0.97	0.29	33,33,33,33	0
86	OHX	4	233	7/7	0.97	0.07	152,152,152,152	0
86	OHX	m6	203	7/7	0.97	0.16	113,113,113,113	0
85	MG	5	3742	1/1	0.97	0.21	51,51,51,51	0
86	OHX	o3	203	7/7	0.97	0.16	124,124,124,124	0
86	OHX	1	4007	7/7	0.97	0.07	157,157,157,157	0
85	MG	5	3865	1/1	0.97	0.33	44,44,44,44	0
85	MG	1	3690	1/1	0.97	0.20	45,45,45,45	0
85	MG	n8	203	1/1	0.97	0.06	43,43,43,43	0
85	MG	1	3431	1/1	0.97	0.14	33,33,33,33	0
86	OHX	1	4012	7/7	0.97	0.08	142,142,142,142	0
85	MG	5	3621	1/1	0.97	0.05	38,38,38,38	0
86	OHX	2	2029	7/7	0.98	0.10	109,109,109,109	0
86	OHX	1	3949	7/7	0.98	0.10	115,115,115,115	0
86	OHX	5	3990	7/7	0.98	0.05	136,136,136,136	0
86	OHX	5	3991	7/7	0.98	0.07	115,115,115,115	0
86	OHX	1	4036	7/7	0.98	0.06	152,152,152,152	0
86	OHX	5	3993	7/7	0.98	0.06	128,128,128,128	0
86	OHX	1	3950	7/7	0.98	0.10	113,113,113,113	0
86	OHX	1	3951	7/7	0.98	0.18	87,87,87,87	0
86	OHX	3	218	7/7	0.98	0.08	119,119,119,119	0
86	OHX	5	3997	7/7	0.98	0.11	114,114,114,114	0
86	OHX	1	3953	7/7	0.98	0.07	123,123,123,123	0
86	OHX	2	2031	7/7	0.98	0.08	127,127,127,127	0
86	OHX	5	4000	7/7	0.98	0.05	146,146,146,146	0
86	OHX	5	4001	7/7	0.98	0.08	96,96,96,96	0
86	OHX	5	4002	7/7	0.98	0.16	104,104,104,104	0
86	OHX	2	2033	7/7	0.98	0.10	121,121,121,121	0
85	MG	1	3803	1/1	0.98	0.09	42,42,42,42	0
86	OHX	1	3957	7/7	0.98	0.14	90,90,90,90	0
86	OHX	1	3958	7/7	0.98	0.09	115,115,115,115	0
85	MG	1	3564	1/1	0.98	0.17	33,33,33,33	0
86	OHX	4	225	7/7	0.98	0.09	86,86,86,86	0
86	OHX	6	2142	7/7	0.98	0.07	150,150,150,150	0
86	OHX	2	2038	7/7	0.98	0.08	114,114,114,114	0
86	OHX	1	4047	7/7	0.98	0.06	155,155,155,155	0
86	OHX	1	3961	7/7	0.98	0.07	137,137,137,137	0
85	MG	5	3720	1/1	0.98	0.11	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3963	7/7	0.98	0.07	125,125,125,125	0
85	MG	5	3594	1/1	0.98	0.21	17,17,17,17	0
86	OHX	2	2044	7/7	0.98	0.09	120,120,120,120	0
85	MG	5	3413	1/1	0.98	0.15	31,31,31,31	0
86	OHX	2	2089	7/7	0.98	0.07	141,141,141,141	0
86	OHX	2	2046	7/7	0.98	0.06	137,137,137,137	0
86	OHX	1	3969	7/7	0.98	0.13	111,111,111,111	0
86	OHX	2	2047	7/7	0.98	0.06	127,127,127,127	0
85	MG	1	3625	1/1	0.98	0.06	41,41,41,41	0
85	MG	1	3634	1/1	0.98	0.04	66,66,66,66	0
85	MG	1	3409	1/1	0.98	0.16	25,25,25,25	0
86	OHX	2	2051	7/7	0.98	0.06	127,127,127,127	0
86	OHX	1	3975	7/7	0.98	0.07	129,129,129,129	0
86	OHX	C8	201	7/7	0.98	0.08	123,123,123,123	0
86	OHX	5	4028	7/7	0.98	0.10	125,125,125,125	0
85	MG	1	3750	1/1	0.98	0.06	36,36,36,36	0
85	MG	1	3527	1/1	0.98	0.29	23,23,23,23	0
85	MG	n0	201	1/1	0.98	0.05	40,40,40,40	0
86	OHX	1	3861	7/7	0.98	0.17	64,64,64,64	0
86	OHX	1	3872	7/7	0.98	0.13	75,75,75,75	0
86	OHX	1	3883	7/7	0.98	0.11	95,95,95,95	0
86	OHX	1	3887	7/7	0.98	0.09	88,88,88,88	0
86	OHX	Q2	503	7/7	0.98	0.15	99,99,99,99	0
86	OHX	6	2050	7/7	0.98	0.09	89,89,89,89	0
86	OHX	6	2052	7/7	0.98	0.10	95,95,95,95	0
86	OHX	6	2053	7/7	0.98	0.11	97,97,97,97	0
86	OHX	5	4193	7/7	0.98	0.12	103,103,103,103	0
86	OHX	6	2054	7/7	0.98	0.14	101,101,101,101	0
86	OHX	6	2058	7/7	0.98	0.10	105,105,105,105	0
86	OHX	6	2060	7/7	0.98	0.08	103,103,103,103	0
86	OHX	6	2061	7/7	0.98	0.09	103,103,103,103	0
86	OHX	6	2062	7/7	0.98	0.08	109,109,109,109	0
86	OHX	1	3888	7/7	0.98	0.11	94,94,94,94	0
86	OHX	6	2064	7/7	0.98	0.07	127,127,127,127	0
85	MG	1	3665	1/1	0.98	0.24	35,35,35,35	0
86	OHX	6	2066	7/7	0.98	0.11	112,112,112,112	0
86	OHX	6	2067	7/7	0.98	0.11	108,108,108,108	0
86	OHX	6	2069	7/7	0.98	0.11	104,104,104,104	0
85	MG	L2	302	1/1	0.98	0.07	36,36,36,36	0
86	OHX	1	3896	7/7	0.98	0.08	88,88,88,88	0
86	OHX	1	3898	7/7	0.98	0.09	103,103,103,103	0
86	OHX	1	3900	7/7	0.98	0.10	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3901	7/7	0.98	0.09	110,110,110,110	0
85	MG	1	3712	1/1	0.98	0.08	44,44,44,44	0
86	OHX	1	3992	7/7	0.98	0.05	165,165,165,165	0
86	OHX	6	2078	7/7	0.98	0.07	126,126,126,126	0
86	OHX	6	2079	7/7	0.98	0.11	120,120,120,120	0
86	OHX	6	2080	7/7	0.98	0.08	117,117,117,117	0
86	OHX	6	2082	7/7	0.98	0.07	128,128,128,128	0
86	OHX	1	3904	7/7	0.98	0.08	103,103,103,103	0
86	OHX	1	3906	7/7	0.98	0.10	94,94,94,94	0
86	OHX	2	2058	7/7	0.98	0.07	141,141,141,141	0
86	OHX	5	4067	7/7	0.98	0.11	126,126,126,126	0
86	OHX	1	3908	7/7	0.98	0.07	118,118,118,118	0
86	OHX	1	3997	7/7	0.98	0.07	135,135,135,135	0
86	OHX	6	2088	7/7	0.98	0.06	142,142,142,142	0
86	OHX	1	3909	7/7	0.98	0.10	109,109,109,109	0
86	OHX	6	2090	7/7	0.98	0.09	137,137,137,137	0
86	OHX	1	3910	7/7	0.98	0.08	107,107,107,107	0
86	OHX	1	3911	7/7	0.98	0.09	105,105,105,105	0
86	OHX	6	2093	7/7	0.98	0.06	145,145,145,145	0
86	OHX	s1	302	7/7	0.98	0.08	100,100,100,100	0
86	OHX	1	3912	7/7	0.98	0.07	109,109,109,109	0
85	MG	5	3798	1/1	0.98	0.08	37,37,37,37	0
86	OHX	6	2096	7/7	0.98	0.05	163,163,163,163	0
85	MG	7	208	1/1	0.98	0.06	44,44,44,44	0
86	OHX	1	3915	7/7	0.98	0.07	111,111,111,111	0
86	OHX	1	3916	7/7	0.98	0.12	79,79,79,79	0
86	OHX	1	3917	7/7	0.98	0.10	102,102,102,102	0
85	MG	N8	202	1/1	0.98	0.10	41,41,41,41	0
86	OHX	1	3919	7/7	0.98	0.10	121,121,121,121	0
85	MG	5	3776	1/1	0.98	0.04	39,39,39,39	0
86	OHX	5	3901	7/7	0.98	0.14	66,66,66,66	0
86	OHX	5	3903	7/7	0.98	0.12	76,76,76,76	0
86	OHX	1	3922	7/7	0.98	0.07	121,121,121,121	0
86	OHX	5	3919	7/7	0.98	0.11	82,82,82,82	0
86	OHX	5	3922	7/7	0.98	0.10	93,93,93,93	0
86	OHX	5	3924	7/7	0.98	0.08	85,85,85,85	0
86	OHX	5	3925	7/7	0.98	0.10	109,109,109,109	0
86	OHX	5	3927	7/7	0.98	0.07	93,93,93,93	0
86	OHX	5	3932	7/7	0.98	0.10	98,98,98,98	0
86	OHX	7	219	7/7	0.98	0.07	101,101,101,101	0
85	MG	1	3599	1/1	0.98	0.10	42,42,42,42	0
86	OHX	5	3934	7/7	0.98	0.08	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3936	7/7	0.98	0.08	91,91,91,91	0
86	OHX	5	3937	7/7	0.98	0.09	102,102,102,102	0
86	OHX	5	3938	7/7	0.98	0.08	93,93,93,93	0
86	OHX	5	3939	7/7	0.98	0.08	89,89,89,89	0
86	OHX	5	3940	7/7	0.98	0.07	97,97,97,97	0
86	OHX	5	3942	7/7	0.98	0.07	108,108,108,108	0
86	OHX	5	3943	7/7	0.98	0.08	100,100,100,100	0
85	MG	1	3535	1/1	0.98	0.45	34,34,34,34	0
86	OHX	8	216	7/7	0.98	0.05	131,131,131,131	0
86	OHX	5	3945	7/7	0.98	0.07	116,116,116,116	0
86	OHX	5	3948	7/7	0.98	0.09	107,107,107,107	0
86	OHX	5	3949	7/7	0.98	0.10	101,101,101,101	0
86	OHX	5	3951	7/7	0.98	0.08	105,105,105,105	0
86	OHX	2	2065	7/7	0.98	0.07	142,142,142,142	0
86	OHX	1	3929	7/7	0.98	0.07	112,112,112,112	0
86	OHX	2	2066	7/7	0.98	0.06	155,155,155,155	0
85	MG	1	3505	1/1	0.98	0.26	35,35,35,35	0
86	OHX	5	3958	7/7	0.98	0.09	115,115,115,115	0
85	MG	1	3691	1/1	0.98	0.05	36,36,36,36	0
86	OHX	1	3933	7/7	0.98	0.09	112,112,112,112	0
86	OHX	1	4019	7/7	0.98	0.14	128,128,128,128	0
86	OHX	5	3962	7/7	0.98	0.09	113,113,113,113	0
86	OHX	13	404	7/7	0.98	0.12	117,117,117,117	0
86	OHX	5	3963	7/7	0.98	0.07	117,117,117,117	0
86	OHX	2	2069	7/7	0.98	0.07	139,139,139,139	0
86	OHX	5	3965	7/7	0.98	0.09	98,98,98,98	0
86	OHX	5	3966	7/7	0.98	0.09	92,92,92,92	0
85	MG	5	3829	1/1	0.98	0.20	58,58,58,58	0
86	OHX	1	3937	7/7	0.98	0.07	112,112,112,112	0
85	MG	5	3485	1/1	0.98	0.25	28,28,28,28	0
86	OHX	2	2072	7/7	0.98	0.06	157,157,157,157	0
85	MG	1	3658	1/1	0.98	0.08	35,35,35,35	0
85	MG	1	3532	1/1	0.98	0.36	33,33,33,33	0
86	OHX	5	3975	7/7	0.98	0.10	108,108,108,108	0
86	OHX	1	4027	7/7	0.98	0.14	121,121,121,121	0
86	OHX	5	3977	7/7	0.98	0.11	108,108,108,108	0
86	OHX	5	3978	7/7	0.98	0.08	110,110,110,110	0
86	OHX	n3	202	7/7	0.98	0.12	106,106,106,106	0
86	OHX	5	3979	7/7	0.98	0.13	107,107,107,107	0
85	MG	6	2016	1/1	0.98	0.10	82,82,82,82	0
86	OHX	q2	502	7/7	0.98	0.13	98,98,98,98	0
86	OHX	5	3981	7/7	0.98	0.06	130,130,130,130	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
87	ZN	E1	501	1/1	0.98	0.05	118,118,118,118	0
85	MG	5	3834	1/1	0.98	0.11	40,40,40,40	0
86	OHX	1	3944	7/7	0.98	0.11	114,114,114,114	0
87	ZN	e1	501	1/1	0.98	0.07	158,158,158,158	0
86	OHX	2	2025	7/7	0.98	0.11	97,97,97,97	0
86	OHX	2	2028	7/7	0.98	0.09	106,106,106,106	0
86	OHX	1	3947	7/7	0.98	0.13	113,113,113,113	0
86	OHX	5	3952	7/7	0.99	0.07	88,88,88,88	0
86	OHX	1	3891	7/7	0.99	0.07	93,93,93,93	0
85	MG	5	3463	1/1	0.99	0.09	38,38,38,38	0
86	OHX	5	3955	7/7	0.99	0.05	109,109,109,109	0
86	OHX	1	3893	7/7	0.99	0.06	97,97,97,97	0
86	OHX	1	3894	7/7	0.99	0.06	80,80,80,80	0
86	OHX	1	3895	7/7	0.99	0.07	85,85,85,85	0
85	MG	5	3844	1/1	0.99	0.09	54,54,54,54	0
86	OHX	1	3897	7/7	0.99	0.06	78,78,78,78	0
86	OHX	2	2040	7/7	0.99	0.05	108,108,108,108	0
86	OHX	1	3899	7/7	0.99	0.04	101,101,101,101	0
86	OHX	2	2041	7/7	0.99	0.06	113,113,113,113	0
86	OHX	4	224	7/7	0.99	0.07	65,65,65,65	0
85	MG	5	3560	1/1	0.99	0.32	24,24,24,24	0
86	OHX	1	3902	7/7	0.99	0.07	92,92,92,92	0
86	OHX	2	2043	7/7	0.99	0.07	120,120,120,120	0
85	MG	1	4216	1/1	0.99	0.10	40,40,40,40	0
86	OHX	5	3969	7/7	0.99	0.05	119,119,119,119	0
86	OHX	1	3905	7/7	0.99	0.07	101,101,101,101	0
86	OHX	5	3971	7/7	0.99	0.11	101,101,101,101	0
85	MG	5	3582	1/1	0.99	0.32	28,28,28,28	0
85	MG	1	3465	1/1	0.99	0.10	47,47,47,47	0
85	MG	5	3563	1/1	0.99	0.10	32,32,32,32	0
85	MG	12	302	1/1	0.99	0.08	36,36,36,36	0
86	OHX	2	2023	7/7	0.99	0.12	84,84,84,84	0
86	OHX	2	2024	7/7	0.99	0.07	94,94,94,94	0
85	MG	1	3595	1/1	0.99	0.27	13,13,13,13	0
86	OHX	2	2026	7/7	0.99	0.08	98,98,98,98	0
86	OHX	2	2027	7/7	0.99	0.07	89,89,89,89	0
85	MG	1	3563	1/1	0.99	0.29	24,24,24,24	0
86	OHX	5	3982	7/7	0.99	0.07	100,100,100,100	0
85	MG	1	3584	1/1	0.99	0.18	24,24,24,24	0
86	OHX	2	2030	7/7	0.99	0.09	118,118,118,118	0
85	MG	5	3853	1/1	0.99	0.10	63,63,63,63	0
86	OHX	1	3857	7/7	0.99	0.11	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	1	3920	7/7	0.99	0.08	101,101,101,101	0
86	OHX	1	3860	7/7	0.99	0.09	64,64,64,64	0
86	OHX	2	2032	7/7	0.99	0.07	121,121,121,121	0
86	OHX	N9	101	7/7	0.99	0.08	72,72,72,72	0
86	OHX	1	3862	7/7	0.99	0.06	61,61,61,61	0
86	OHX	1	3924	7/7	0.99	0.07	96,96,96,96	0
86	OHX	1	3863	7/7	0.99	0.11	66,66,66,66	0
86	OHX	1	3926	7/7	0.99	0.06	108,108,108,108	0
86	OHX	1	3927	7/7	0.99	0.10	94,94,94,94	0
86	OHX	6	2046	7/7	0.99	0.10	66,66,66,66	0
86	OHX	6	2047	7/7	0.99	0.13	85,85,85,85	0
86	OHX	6	2048	7/7	0.99	0.08	83,83,83,83	0
86	OHX	6	2049	7/7	0.99	0.07	79,79,79,79	0
86	OHX	1	3864	7/7	0.99	0.06	63,63,63,63	0
86	OHX	6	2051	7/7	0.99	0.07	85,85,85,85	0
86	OHX	1	3865	7/7	0.99	0.07	69,69,69,69	0
86	OHX	1	3866	7/7	0.99	0.10	68,68,68,68	0
86	OHX	1	3867	7/7	0.99	0.06	67,67,67,67	0
86	OHX	6	2055	7/7	0.99	0.08	90,90,90,90	0
86	OHX	6	2057	7/7	0.99	0.07	111,111,111,111	0
86	OHX	1	3868	7/7	0.99	0.08	78,78,78,78	0
86	OHX	6	2059	7/7	0.99	0.05	106,106,106,106	0
86	OHX	1	3869	7/7	0.99	0.07	80,80,80,80	0
86	OHX	1	3870	7/7	0.99	0.06	85,85,85,85	0
86	OHX	5	3892	7/7	0.99	0.14	57,57,57,57	0
86	OHX	5	3894	7/7	0.99	0.10	53,53,53,53	0
86	OHX	5	3895	7/7	0.99	0.11	58,58,58,58	0
86	OHX	5	3896	7/7	0.99	0.11	59,59,59,59	0
86	OHX	5	3897	7/7	0.99	0.06	68,68,68,68	0
86	OHX	7	218	7/7	0.99	0.07	96,96,96,96	0
86	OHX	5	3899	7/7	0.99	0.09	70,70,70,70	0
86	OHX	5	3900	7/7	0.99	0.07	73,73,73,73	0
85	MG	1	3738	1/1	0.99	0.09	40,40,40,40	0
86	OHX	5	3902	7/7	0.99	0.08	60,60,60,60	0
86	OHX	1	3936	7/7	0.99	0.05	111,111,111,111	0
86	OHX	5	3904	7/7	0.99	0.06	81,81,81,81	0
86	OHX	5	3905	7/7	0.99	0.08	77,77,77,77	0
86	OHX	5	3906	7/7	0.99	0.07	72,72,72,72	0
86	OHX	5	3907	7/7	0.99	0.08	71,71,71,71	0
86	OHX	5	3908	7/7	0.99	0.07	83,83,83,83	0
86	OHX	5	3910	7/7	0.99	0.07	70,70,70,70	0
86	OHX	8	215	7/7	0.99	0.07	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3911	7/7	0.99	0.09	79,79,79,79	0
86	OHX	5	3912	7/7	0.99	0.07	92,92,92,92	0
86	OHX	5	3913	7/7	0.99	0.08	78,78,78,78	0
86	OHX	5	3914	7/7	0.99	0.08	84,84,84,84	0
86	OHX	1	3873	7/7	0.99	0.07	77,77,77,77	0
86	OHX	5	3916	7/7	0.99	0.09	89,89,89,89	0
86	OHX	5	3917	7/7	0.99	0.07	83,83,83,83	0
86	OHX	1	3874	7/7	0.99	0.07	87,87,87,87	0
86	OHX	5	3920	7/7	0.99	0.06	95,95,95,95	0
86	OHX	5	3921	7/7	0.99	0.07	89,89,89,89	0
86	OHX	1	3875	7/7	0.99	0.10	81,81,81,81	0
86	OHX	1	3876	7/7	0.99	0.05	73,73,73,73	0
86	OHX	6	2068	7/7	0.99	0.05	118,118,118,118	0
86	OHX	5	3926	7/7	0.99	0.05	85,85,85,85	0
86	OHX	1	3877	7/7	0.99	0.07	83,83,83,83	0
86	OHX	5	3928	7/7	0.99	0.07	93,93,93,93	0
86	OHX	5	3929	7/7	0.99	0.05	83,83,83,83	0
86	OHX	5	3930	7/7	0.99	0.10	86,86,86,86	0
86	OHX	5	3931	7/7	0.99	0.07	95,95,95,95	0
86	OHX	1	3878	7/7	0.99	0.08	86,86,86,86	0
86	OHX	1	3879	7/7	0.99	0.10	81,81,81,81	0
86	OHX	1	3880	7/7	0.99	0.07	91,91,91,91	0
86	OHX	5	4049	7/7	0.99	0.07	124,124,124,124	0
86	OHX	5	3935	7/7	0.99	0.06	105,105,105,105	0
86	OHX	1	3881	7/7	0.99	0.07	87,87,87,87	0
86	OHX	6	2074	7/7	0.99	0.05	110,110,110,110	0
86	OHX	1	3882	7/7	0.99	0.08	76,76,76,76	0
86	OHX	2	2034	7/7	0.99	0.10	110,110,110,110	0
86	OHX	1	3884	7/7	0.99	0.08	73,73,73,73	0
86	OHX	n1	201	7/7	0.99	0.09	69,69,69,69	0
86	OHX	5	3941	7/7	0.99	0.06	100,100,100,100	0
86	OHX	n9	103	7/7	0.99	0.05	77,77,77,77	0
86	OHX	1	3885	7/7	0.99	0.08	83,83,83,83	0
85	MG	m6	202	1/1	0.99	0.05	39,39,39,39	0
86	OHX	2	2036	7/7	0.99	0.06	110,110,110,110	0
86	OHX	5	4060	7/7	0.99	0.06	130,130,130,130	0
86	OHX	6	2081	7/7	0.99	0.09	109,109,109,109	0
86	OHX	5	3946	7/7	0.99	0.05	84,84,84,84	0
86	OHX	5	3947	7/7	0.99	0.05	112,112,112,112	0
87	ZN	d9	101	1/1	0.99	0.04	87,87,87,87	0
86	OHX	1	3952	7/7	0.99	0.05	125,125,125,125	0
85	MG	1	3764	1/1	0.99	0.08	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3950	7/7	0.99	0.09	96,96,96,96	0
86	OHX	1	3890	7/7	0.99	0.08	87,87,87,87	0
86	OHX	5	3893	7/7	1.00	0.08	51,51,51,51	0
87	ZN	D6	500	1/1	1.00	0.01	84,84,84,84	0
86	OHX	1	3859	7/7	1.00	0.07	55,55,55,55	0
87	ZN	D9	101	1/1	1.00	0.02	83,83,83,83	0
86	OHX	5	3909	7/7	1.00	0.04	74,74,74,74	0
87	ZN	O7	101	1/1	1.00	0.04	50,50,50,50	0
87	ZN	Q0	500	1/1	1.00	0.01	52,52,52,52	0
86	OHX	5	3918	7/7	1.00	0.04	68,68,68,68	0
87	ZN	Q3	501	1/1	1.00	0.03	72,72,72,72	0
87	ZN	d6	101	1/1	1.00	0.02	68,68,68,68	0
86	OHX	1	3858	7/7	1.00	0.06	62,62,62,62	0
86	OHX	1	3886	7/7	1.00	0.08	82,82,82,82	0
86	OHX	1	3871	7/7	1.00	0.05	69,69,69,69	0
87	ZN	o7	102	1/1	1.00	0.05	53,53,53,53	0
87	ZN	q0	3602	1/1	1.00	0.01	38,38,38,38	0
86	OHX	5	3898	7/7	1.00	0.05	69,69,69,69	0
87	ZN	q3	501	1/1	1.00	0.05	78,78,78,78	0
86	OHX	5	3923	7/7	1.00	0.04	81,81,81,81	0
86	OHX	6	2056	7/7	1.00	0.05	93,93,93,93	0

6.5 Other polymers

There are no such residues in this entry.