



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:52 AM UTC

PDB ID : 4U4Y / pdb_00004u4y
Title : Crystal structure of Pactamycin bound to the yeast 80S ribosome
Authors : Garreau de Loubresse, N.; Prokhorova, I.; Yusupova, G.; Yusupov, M.
Deposited on : 2014-07-24
Resolution : 3.20 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

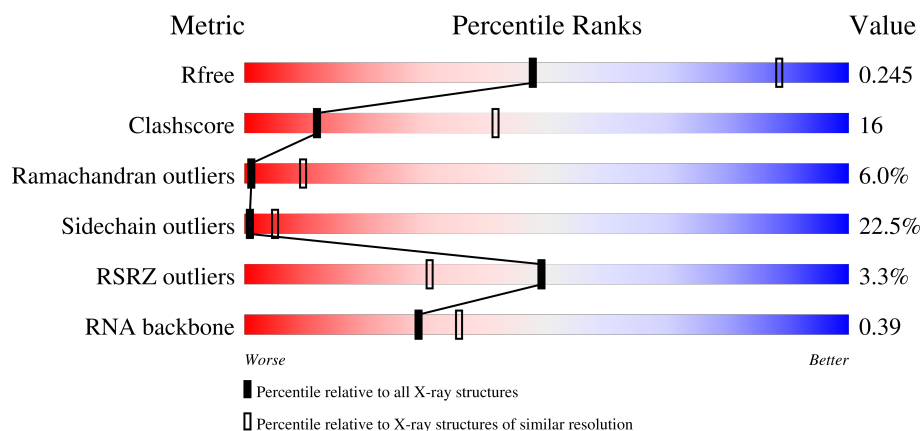
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1466 (3.20-3.20)
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)
RNA backbone	3983	1222 (3.50-2.90)

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	3% 37% 43% 17% •
1	6	1800	3% 41% 45% 14%
2	S0	251	4% 30% 38% 13% • 18%
2	s0	251	2% 37% 33% 11% • 18%

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

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

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Mol	Chain	Length	Quality of chain
28	D6	97	
28	d6	97	
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	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	

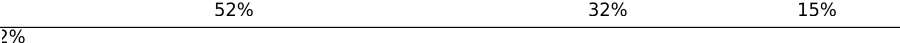
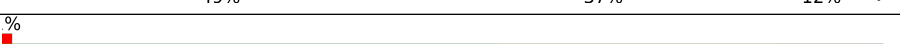
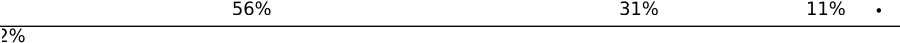
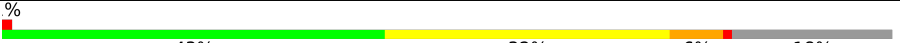
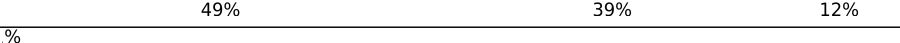
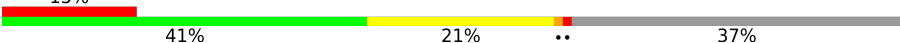
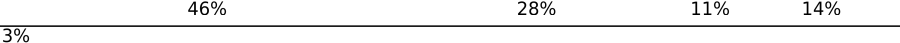
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Mol	Chain	Length	Quality of chain
41	L4	361	% 47% 40% 12% .
41	l4	361	% 48% 37% 13% .
42	L5	296	2% 47% 40% 12% .
42	l5	296	% 55% 32% 11% ..
43	L6	175	54% 27% 6% . 11%
43	l6	175	% 49% 34% 7% 10%
44	L7	243	52% 29% 8% . 9%
44	l7	243	54% 29% 7% . 8%
45	L8	255	3% 51% 29% 11% 9%
45	l8	255	4% 42% 37% 10% . 9%
46	L9	191	41% 45% 13% .
46	l9	191	% 51% 32% 14% .
47	M0	220	3% 46% 40% 10% .
47	m0	220	4% 40% 41% 13% . .
48	M1	173	2% 39% 44% 11% . .
48	m1	173	2% 40% 43% 14% ..
49	M3	198	2% 49% 35% 12% . .
49	m3	198	3% 41% 44% 11% . .
50	M4	137	% 45% 42% 11% ..
50	m4	137	% 42% 47% 9% .
51	M5	203	% 54% 33% 12%
51	m5	203	% 50% 40% 8% .
52	M6	198	% 52% 39% 8% ..
52	m6	198	% 48% 37% 11% . .
53	M7	183	4% 60% 30% 9% .

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

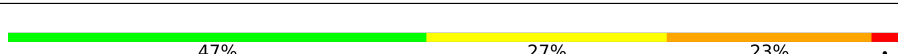
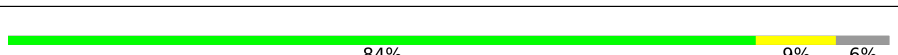
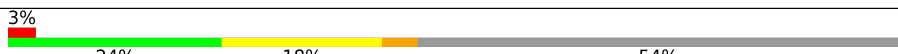
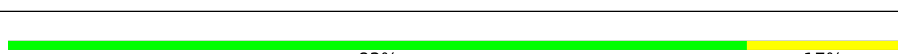
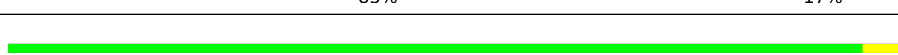
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Mol	Chain	Length	Quality of chain
66	O0	104	
66	o0	104	
67	O1	112	
67	o1	112	
68	O2	129	
68	o2	129	
69	O3	106	
69	o3	106	
70	O4	120	
70	o4	120	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76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

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Mol	Chain	Length	Quality of chain
78	q2	105	
79	Q3	91	
79	q3	91	
80	e0	62	
81	m2	160	
82	p0	311	
83	p1	47	
84	p2	46	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	1	3635	-	-	-	X
85	MG	1	3665	-	-	-	X
85	MG	1	3815	-	-	-	X
85	MG	2	1910	-	-	-	X
85	MG	2	1914	-	-	-	X
85	MG	2	1915	-	-	-	X
85	MG	2	1937	-	-	-	X
85	MG	2	1949	-	-	-	X
85	MG	2	1958	-	-	-	X
85	MG	2	1967	-	-	-	X
85	MG	2	1974	-	-	-	X
85	MG	2	1986	-	-	-	X
85	MG	2	1994	-	-	-	X
85	MG	2	2003	-	-	-	X
85	MG	2	2010	-	-	-	X
85	MG	4	220	-	-	-	X
85	MG	5	3464	-	-	-	X
85	MG	5	3635	-	-	-	X
85	MG	5	3682	-	-	-	X
85	MG	5	3686	-	-	-	X
85	MG	5	3884	-	-	-	X
85	MG	6	1909	-	-	-	X
85	MG	6	1924	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	6	1966	-	-	-	X
85	MG	6	2028	-	-	-	X
85	MG	6	2039	-	-	-	X
85	MG	O3	201	-	-	-	X
86	OHX	1	3936	-	-	X	-
86	OHX	1	3955	-	-	X	-
86	OHX	1	3969	-	-	X	-
86	OHX	1	3973	-	-	X	-
86	OHX	1	4001	-	-	X	-
86	OHX	1	4026	-	-	X	-
86	OHX	1	4030	-	-	X	-
86	OHX	1	4043	-	-	X	-
86	OHX	1	4054	-	-	X	-
86	OHX	1	4083	-	-	X	-
86	OHX	1	4146	-	-	X	-
86	OHX	1	4154	-	-	X	-
86	OHX	1	4155	-	-	X	-
86	OHX	1	4162	-	-	X	-
86	OHX	1	4171	-	-	X	-
86	OHX	1	4197	-	-	X	-
86	OHX	2	2032	-	-	X	-
86	OHX	2	2045	-	-	X	-
86	OHX	2	2090	-	-	X	-
86	OHX	2	2096	-	-	X	-
86	OHX	2	2100	-	-	X	-
86	OHX	2	2110	-	-	X	-
86	OHX	2	2145	-	-	X	-
86	OHX	5	3943	-	-	X	-
86	OHX	5	3963	-	-	X	-
86	OHX	5	3974	-	-	X	-
86	OHX	5	3979	-	-	X	-
86	OHX	5	4002	-	-	X	-
86	OHX	5	4011	-	-	X	-
86	OHX	5	4021	-	-	X	-
86	OHX	5	4035	-	-	X	-
86	OHX	5	4055	-	-	X	-
86	OHX	5	4066	-	-	X	-
86	OHX	5	4090	-	-	X	-
86	OHX	5	4143	-	-	X	-
86	OHX	5	4199	-	-	X	-
86	OHX	5	4200	-	-	X	-
86	OHX	5	4201	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
86	OHX	5	4217	-	-	X	-
86	OHX	5	4233	-	-	X	-
86	OHX	5	4237	-	-	X	-
86	OHX	5	4242	-	-	X	-
86	OHX	6	2059	-	-	X	-
86	OHX	6	2120	-	-	X	-
86	OHX	6	2125	-	-	X	-
86	OHX	6	2146	-	-	X	-
86	OHX	6	2149	-	-	X	-
86	OHX	6	2170	-	-	X	-
86	OHX	7	217	-	-	X	-
86	OHX	7	225	-	-	X	-
86	OHX	8	219	-	-	X	-
86	OHX	8	227	-	-	X	-
86	OHX	8	228	-	-	X	-
86	OHX	O7	104	-	-	X	-
86	OHX	q1	102	-	-	X	-

2 Entry composition

There are 88 unique types of molecules in this entry. The entry contains 411223 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 unknown protein chain m2.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	p0	143	Total	C	N	O	S	0	0	0
			1076	686	192	195	3			

- 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	124	Total	Mg	0	0
			124	124		
85	S2	2	Total	Mg	0	0
			2	2		
85	S8	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	SM	1	Total	Mg	0	0
			1	1		
85	1	471	Total	Mg	0	0
			471	471		
85	3	14	Total	Mg	0	0
			14	14		
85	4	21	Total	Mg	0	0
			21	21		
85	L2	1	Total	Mg	0	0
			1	1		
85	L3	2	Total	Mg	0	0
			2	2		
85	L4	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	L5	1	Total 1	Mg 1	0	0
85	L7	3	Total 3	Mg 3	0	0
85	L8	1	Total 1	Mg 1	0	0
85	M0	2	Total 2	Mg 2	0	0
85	M1	1	Total 1	Mg 1	0	0
85	M3	3	Total 3	Mg 3	0	0
85	M5	2	Total 2	Mg 2	0	0
85	M6	2	Total 2	Mg 2	0	0
85	M7	4	Total 4	Mg 4	0	0
85	M9	3	Total 3	Mg 3	0	0
85	N0	1	Total 1	Mg 1	0	0
85	N3	2	Total 2	Mg 2	0	0
85	N5	1	Total 1	Mg 1	0	0
85	N6	1	Total 1	Mg 1	0	0
85	N8	4	Total 4	Mg 4	0	0
85	N9	1	Total 1	Mg 1	0	0
85	O2	1	Total 1	Mg 1	0	0
85	O3	1	Total 1	Mg 1	0	0
85	O7	2	Total 2	Mg 2	0	0
85	Q2	1	Total 1	Mg 1	0	0
85	6	147	Total 147	Mg 147	0	0

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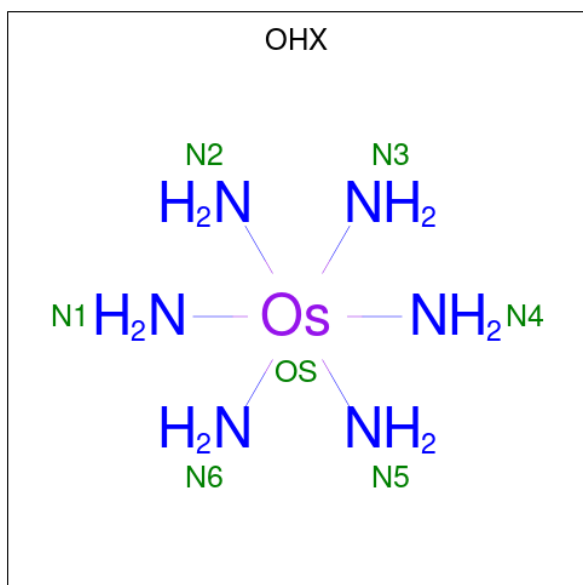
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	s1	1	Total 1	Mg 1	0	0
85	s2	1	Total 1	Mg 1	0	0
85	s8	2	Total 2	Mg 2	0	0
85	c1	1	Total 1	Mg 1	0	0
85	c7	1	Total 1	Mg 1	0	0
85	c8	2	Total 2	Mg 2	0	0
85	d3	2	Total 2	Mg 2	0	0
85	d6	1	Total 1	Mg 1	0	0
85	sM	2	Total 2	Mg 2	0	0
85	5	504	Total 504	Mg 504	0	0
85	7	14	Total 14	Mg 14	0	0
85	8	16	Total 16	Mg 16	0	0
85	l2	1	Total 1	Mg 1	0	0
85	l3	2	Total 2	Mg 2	0	0
85	l4	1	Total 1	Mg 1	0	0
85	l5	2	Total 2	Mg 2	0	0
85	l7	2	Total 2	Mg 2	0	0
85	l8	1	Total 1	Mg 1	0	0
85	m1	2	Total 2	Mg 2	0	0
85	m5	4	Total 4	Mg 4	0	0
85	m6	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	m7	5	Total 5	Mg 5	0	0
85	n0	2	Total 2	Mg 2	0	0
85	n3	2	Total 2	Mg 2	0	0
85	n6	1	Total 1	Mg 1	0	0
85	n8	4	Total 4	Mg 4	0	0
85	o1	1	Total 1	Mg 1	0	0
85	o3	1	Total 1	Mg 1	0	0
85	o4	1	Total 1	Mg 1	0	0
85	q0	1	Total 1	Mg 1	0	0
85	q1	1	Total 1	Mg 1	0	0
85	q3	2	Total 2	Mg 2	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
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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
86	2	1	Total	N	Os	0	0
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86	2	1	Total	N	Os	0	0
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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
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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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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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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	C5	1	Total	N	Os	0	0
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86	C8	1	Total	N	Os	0	0
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86	D3	1	Total	N	Os	0	0
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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
			7	6	1		

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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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
			7	6	1		

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

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
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86	1	1	Total	N	Os	0	0
			7	6	1		
86	1	1	Total	N	Os	0	0
			7	6	1		
86	3	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
86	3	1	Total	N	Os	0	0
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86	3	1	Total	N	Os	0	0
			7	6	1		
86	3	1	Total	N	Os	0	0
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86	3	1	Total	N	Os	0	0
			7	6	1		
86	3	1	Total	N	Os	0	0
			7	6	1		
86	3	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
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86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
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86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
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86	4	1	Total	N	Os	0	0
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			7	6	1		
86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	1	Total	N	Os	0	0
			7	6	1		
86	4	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	L3	1	Total	N	Os	0	0
			7	6	1		
86	L4	1	Total	N	Os	0	0
			7	6	1		
86	M0	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	M5	1	Total 7	N 6	Os 1	0	0
86	M7	1	Total 7	N 6	Os 1	0	0
86	M7	1	Total 7	N 6	Os 1	0	0
86	M9	1	Total 7	N 6	Os 1	0	0
86	N1	1	Total 7	N 6	Os 1	0	0
86	N9	1	Total 7	N 6	Os 1	0	0
86	O3	1	Total 7	N 6	Os 1	0	0
86	O7	1	Total 7	N 6	Os 1	0	0
86	Q2	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	6	1	Total	N	Os	0	0
			7	6	1		
86	6	1	Total	N	Os	0	0
			7	6	1		
86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	6	1	Total	N	Os	0	0
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86	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
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86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	6	1	Total 7	N 6	Os 1	0	0
86	s1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	s1	1	Total 7	N 6	Os 1	0	0
86	s4	1	Total 7	N 6	Os 1	0	0
86	s8	1	Total 7	N 6	Os 1	0	0
86	s9	1	Total 7	N 6	Os 1	0	0
86	c3	1	Total 7	N 6	Os 1	0	0
86	c5	1	Total 7	N 6	Os 1	0	0
86	c8	1	Total 7	N 6	Os 1	0	0
86	d4	1	Total 7	N 6	Os 1	0	0
86	d9	1	Total 7	N 6	Os 1	0	0
86	sR	1	Total 7	N 6	Os 1	0	0
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86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0
86	5	1	Total 7	N 6	Os 1	0	0

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

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

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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		
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
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86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

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

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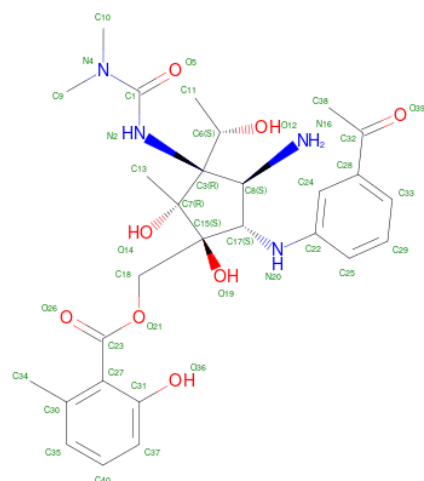
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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86	8	1	Total	N	Os	0	0
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86	8	1	Total	N	Os	0	0
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86	8	1	Total	N	Os	0	0
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86	8	1	Total	N	Os	0	0
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86	13	1	Total	N	Os	0	0
			7	6	1		
86	13	1	Total	N	Os	0	0
			7	6	1		
86	14	1	Total	N	Os	0	0
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86	14	1	Total	N	Os	0	0
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86	15	1	Total	N	Os	0	0
			7	6	1		
86	19	1	Total	N	Os	0	0
			7	6	1		
86	m0	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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	m8	1	Total	N	Os	0	0
			7	6	1		
86	n3	1	Total	N	Os	0	0
			7	6	1		
86	n9	1	Total	N	Os	0	0
			7	6	1		
86	n9	1	Total	N	Os	0	0
			7	6	1		
86	o2	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	o7	1	Total	N	Os	0	0
			7	6	1		
86	q1	1	Total	N	Os	0	0
			7	6	1		
86	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 87 is Pactamycin (CCD ID: PCY) (formula: $C_{28}H_{38}N_4O_8$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
87	2	1	Total 40	C 28	N 4	O 8	0	0
87	6	1	Total 40	C 28	N 4	O 8	0	0

- Molecule 88 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

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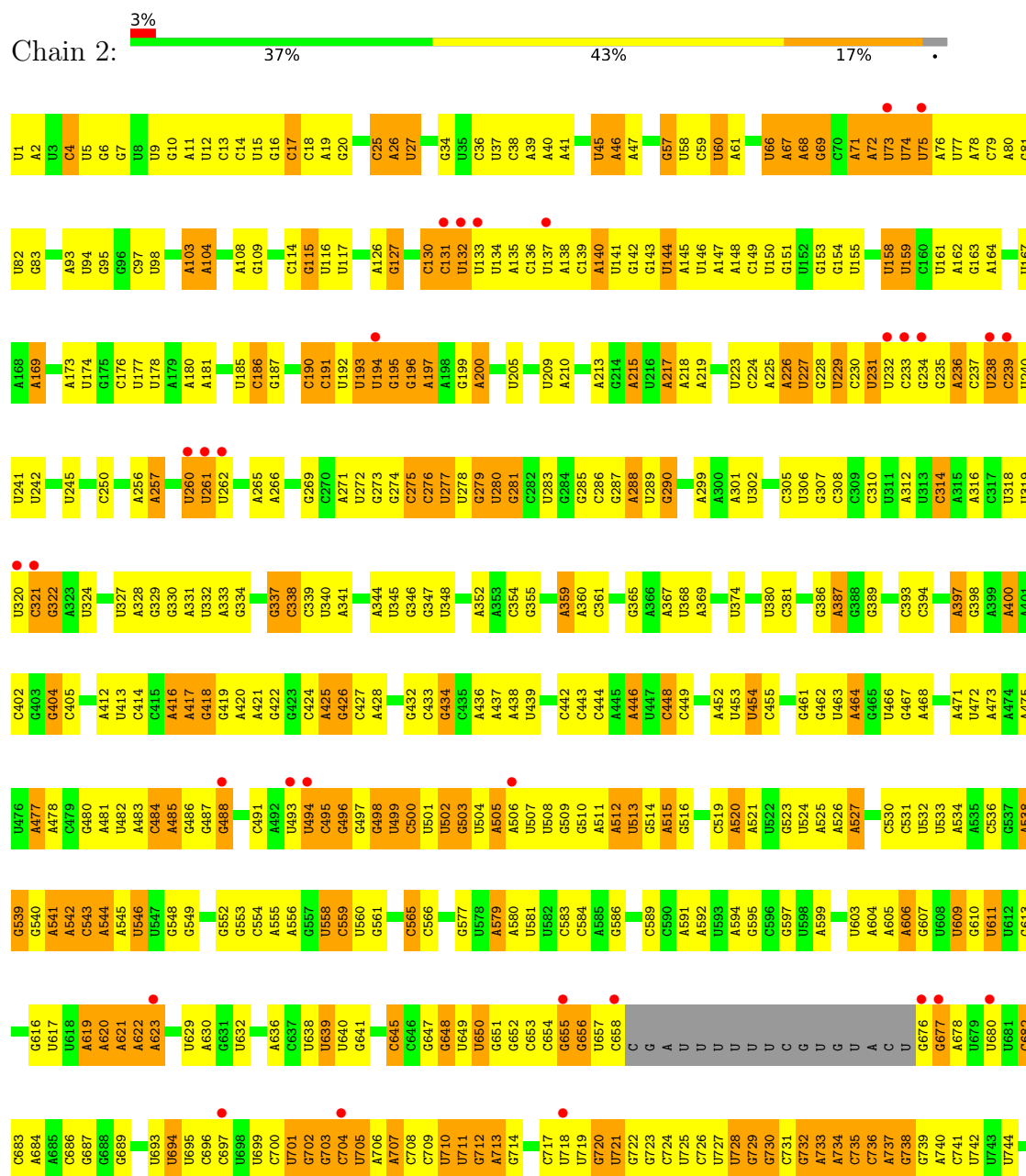
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
88	d9	1	Total 1	Zn 1	0	0
88	e1	1	Total 1	Zn 1	0	0
88	o7	1	Total 1	Zn 1	0	0
88	q0	1	Total 1	Zn 1	0	0
88	q2	1	Total 1	Zn 1	0	0
88	q3	1	Total 1	Zn 1	0	0

3 Residue-property plots

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

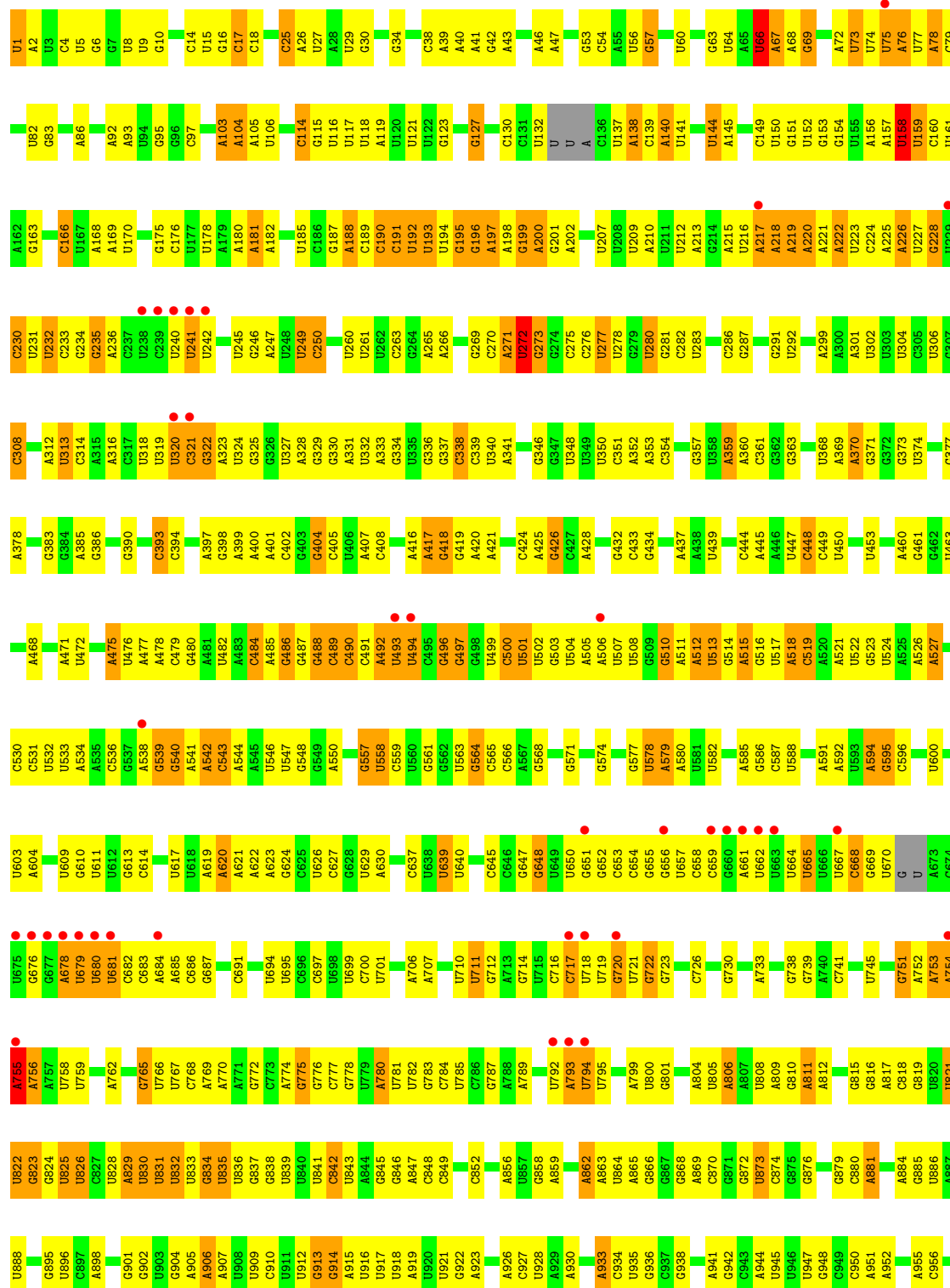
• Molecule 1: 18S ribosomal RNA

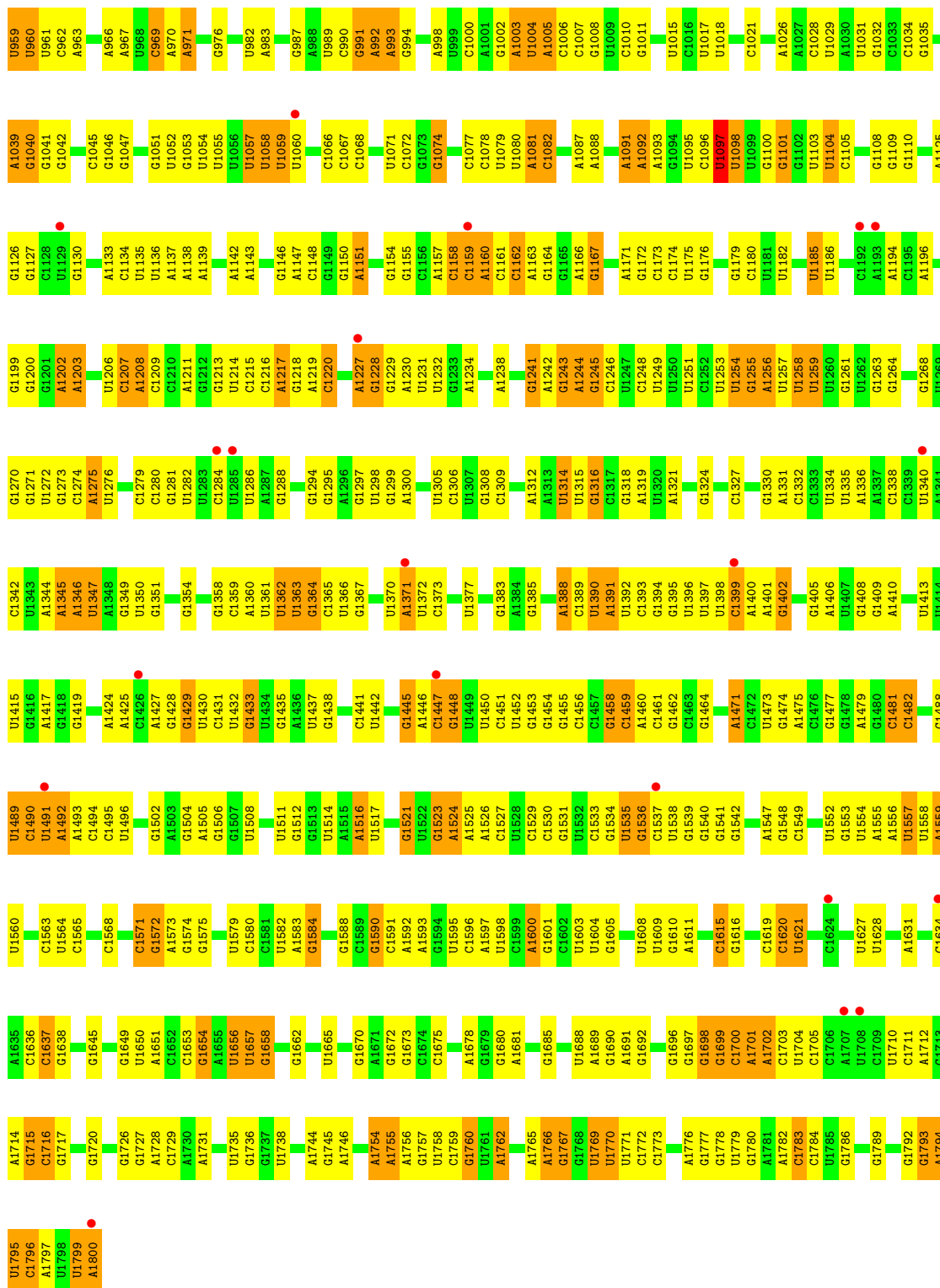


G1717	U1650	A1583	U1511	A1446	U1372	C1309	G1228	G1149	G1064	A978	A887	U820	U749
G1718	A1651	G1584	G1512	U1449	A1376	U1310	G1229	G1150	A1065	A979	U888	U821	A753
A1719	C1652	U1585	G1513	U1450	C1376	U1311	A1230	A1151	C1066	G984	A892	U822	A754
G1720	G1654	A1586	U1514	U1451	U1377	U1312	U1231	A1152	C1067	G985	U893	G824	A755
G1727	U1657	G1588	A1516	U1452	U1378	U1314	G1233	G1153	C1068	G986	U894	U825	A756
A1728	U1658	C1589	U1517	G1453	C1379	U1315	A1234	A1157	C1075	G987	U895	U826	U759
A1731	G1658	C1590	G1518	U1454	U1380	G1316	C1235	C1158	A1076	C990	U896	C827	A760
A1735	U1659	C1591	U1519	G1455	U1381	U1317	A1236	C1159	U1079	G991	C897	C828	A761
U1736	A1660	A1592	U1520	C1456	A1382	U1320	G1237	U1174	U1080	G992	A898	A829	G762
G1736	U1661	A1593	G1521	C1457	C1383	A1321	A1238	C1161	U1081	G993	A899	U830	G763
G1737	G1662	G1594	U1522	G1458	A1384	A1322	U1239	A1162	A1082	G994	G901	U831	U764
U1738	G1663	U1595	G1523	C1459	G1385	C1323	U1240	A1163	U1083	A995	G902	U832	G765
C1739	A1664	A1524	A1524	A1460	U1388	C1383	G1241	G1164	U1084	C1000	U903	U833	U766
U1742	U1598	A1525	A1525	C1461	C1389	A1325	A1242	G1165	A1085	C1001	U904	G834	U767
U1743	C1599	A1526	U1527	G1466	U1390	A1326	A1244	G1167	A1087	G1002	G910	U835	U768
A1744	U1600	G1466	U1528	U1469	U1393	A1329	C1246	U1174	A1088	U1003	U911	U836	A769
G1745	G1601	A1470	C1529	C1470	G1394	G1330	U1247	C1173	A1091	U1004	U912	U837	A770
A1746	U1603	A1471	C1530	C1471	G1394	A1331	C1248	U1175	A1092	A1005	U913	U838	C773
G1747	G1604	C1472	C1531	C1472	U1397	C1332	U1249	U1176	C1096	U1009	G914	U841	A774
G1748	G1605	U1473	G1533	U1473	U1398	C1333	U1250	G1176	U1097	C1010	A915	C842	G775
A1756	G1606	G1474	U1535	A1474	C1399	U1334	U1251	C1177	U1100	G1011	U916	U843	G778
U1756	G1607	A1475	G1536	C1475	A1401	U1335	C1252	G1178	G1100	U1012	U917	U844	U779
U1760	U1608	C1476	C1537	G1477	A1401	A1336	U1253	G1179	G1101	G1013	U918	G845	U780
G1760	U1609	G1477	U1538	G1478	C1404	C1338	U1254	C1180	U1104	A1014	A919	G846	U781
U1761	G1610	C1478	G1539	U1479	G1405	U1339	G1255	U1181	U1105	U1015	U921	A847	U782
A1762	A1611	U1480	G1540	G1480	U1409	U1340	U1257	A1182	C1105	U1016	C927	C848	G783
U1765	U1612	G1481	G1541	G1481	G1409	A1341	U1258	A1184	U1106	U1017	U928	C850	C784
A1766	G1613	C1482	G1542	C1482	A1410	C1342	U1266	U1185	G1107	U1018	U928	U851	U785
G1766	A1614	C1483	A1545	C1483	A1411	U1343	G1267	U1191	G1111	A1026	C931	C852	A788
G1767	G1615	G1484	G1546	C1484	U1412	A1344	U1267	U1192	G1112	A1027	U932	U854	A789
U1769	A1616	C1485	G1547	C1485	U1413	A1345	C1274	A1194	G1113	C1028	A933	U855	U792
U1770	C1619	G1486	G1553	U1487	U1414	U1346	G1274	C1196	G1114	U1029	C934	A856	A793
G1773	U1620	G1487	U1554	G1488	U1415	A1347	G1277	A1197	U1115	A1030	U935	U857	U794
G1774	G1621	C1488	A1555	U1489	G1416	A1348	U1277	C1197	U1116	U1031	G936	G858	A796
U1775	G1622	U1489	U1556	C1490	A1417	U1349	C1280	G1198	G1117	C1032	C942	U861	U800
A1776	C1623	U1491	U1557	U1491	C1420	U1350	G1281	G1199	G1118	G1033	C943	A862	G801
G1777	C1624	A1492	U1558	C1492	U1424	G1351	U1282	G1200	G1119	C1033	A944	A863	G802
U1785	C1625	A1493	U1559	C1493	A1424	U1352	U1283	G1201	U1120	A1039	A951	A864	A806
G1780	G1629	C1494	U1560	C1494	U1427	U1353	C1284	A1202	G1121	G1040	A952	U865	U808
A1781	U1630	C1495	G1562	C1495	G1428	C1354	U1285	A1203	U1138	A1041	G957	G871	A809
A1782	A1631	U1496	C1563	U1496	G1429	U1356	U1286	C1207	A1139	G1042	U958	G872	G810
C1783	C1632	U1497	U1564	C1497	G1430	A1357	A1287	A1207	G1140	G1043	U959	U873	A811
C1784	A1633	G1498	C1565	G1498	U1431	G1358	G1288	C1207	U1142	U1044	U960	U874	A812
U1785	C1634	C1431	U1566	G1499	C1359	C1359	U1289	A1211	U1058	C1045	U961	G876	A814
C1785	A1635	U1432	U1567	C1500	U1432	A1360	U1290	U1214	U1059	U1059	A966	U882	G815
C1788	C1636	G1501	C1568	C1501	G1433	U1361	G1291	U1215	U1062	U1062	U967	C883	G816
U1788	U1637	G1502	U1569	G1502	U1434	U1362	G1294	C1216	G1053	U1057	U968	A884	A817
G1792	G1638	A1503	A1569	G1503	G1435	U1363	G1295	U1217	U1063	U1063	U969	C885	C818
G1793	C1642	G1504	U1572	G1504	A1436	G1364	U1296	U1218	U1064	U1064	U969	U886	G819
A1794	A1573	A1505	G1574	G1505	U1437	G1367	A1296	G1219	U1065	U1065	U969	U886	G819
C1796	G1645	C1507	A1574	G1507	U1442	G1368	U1301	C1220	U1066	U1066	U969	U886	G819
U1798	A1648	U1508	U1578	C1508	U1443	G1369	U1302	A1226	A1067	A1067	U969	U886	G819
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A

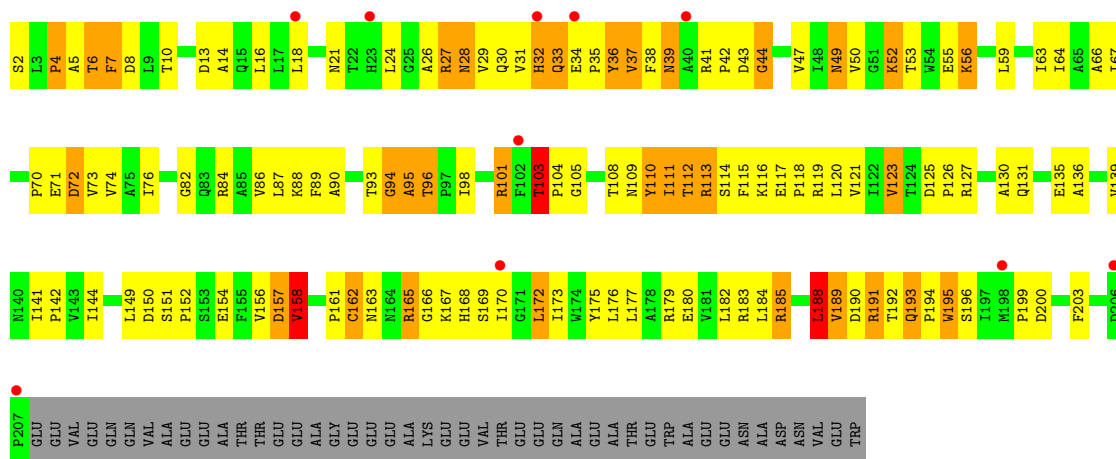
• Molecule 1: 18S ribosomal RNA



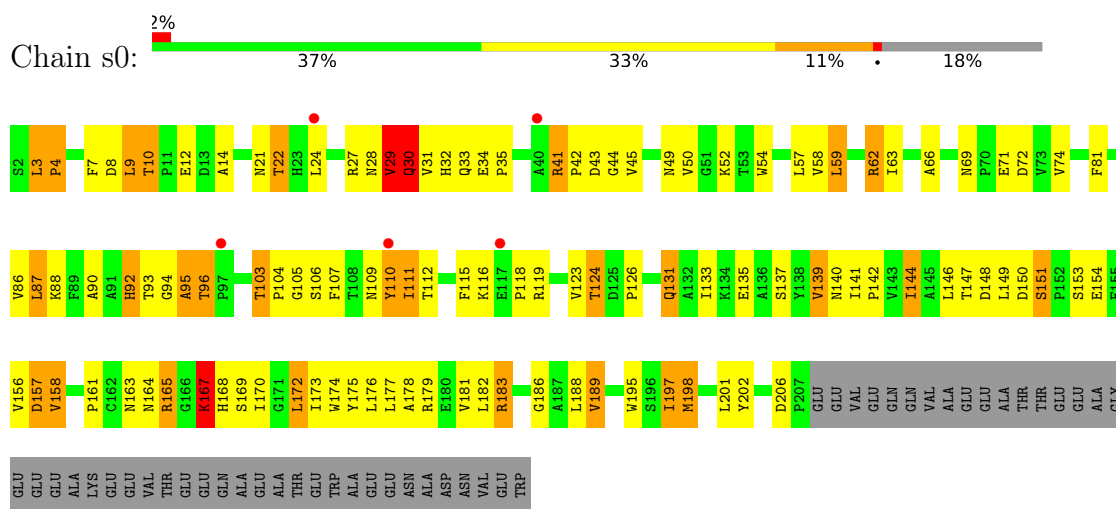


- Molecule 2: 40S ribosomal protein S0-A

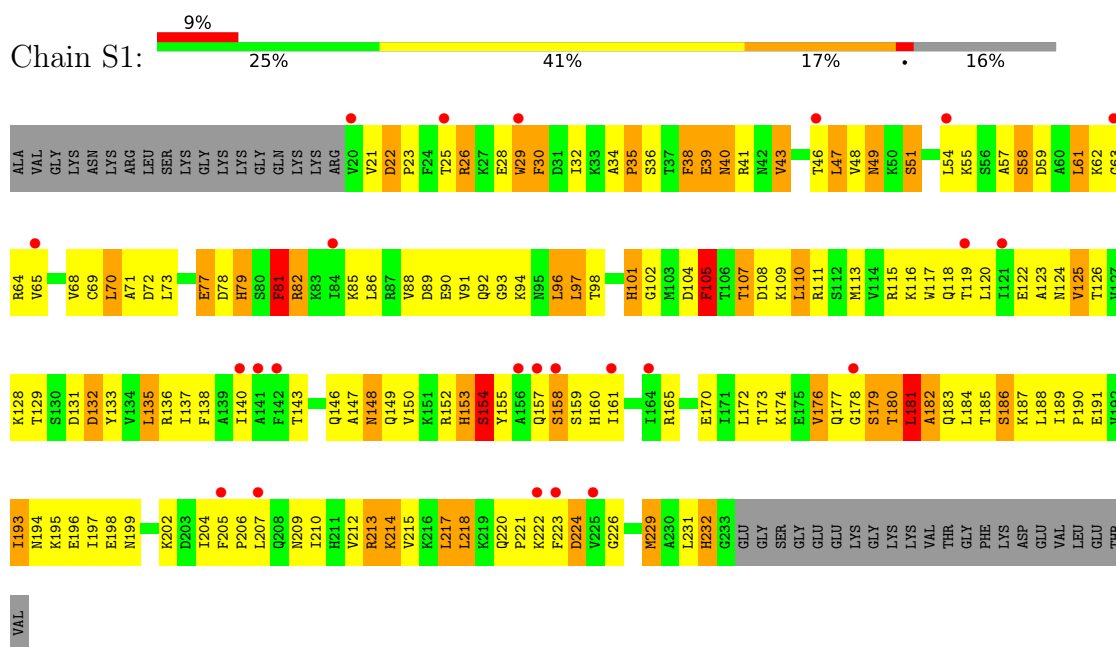




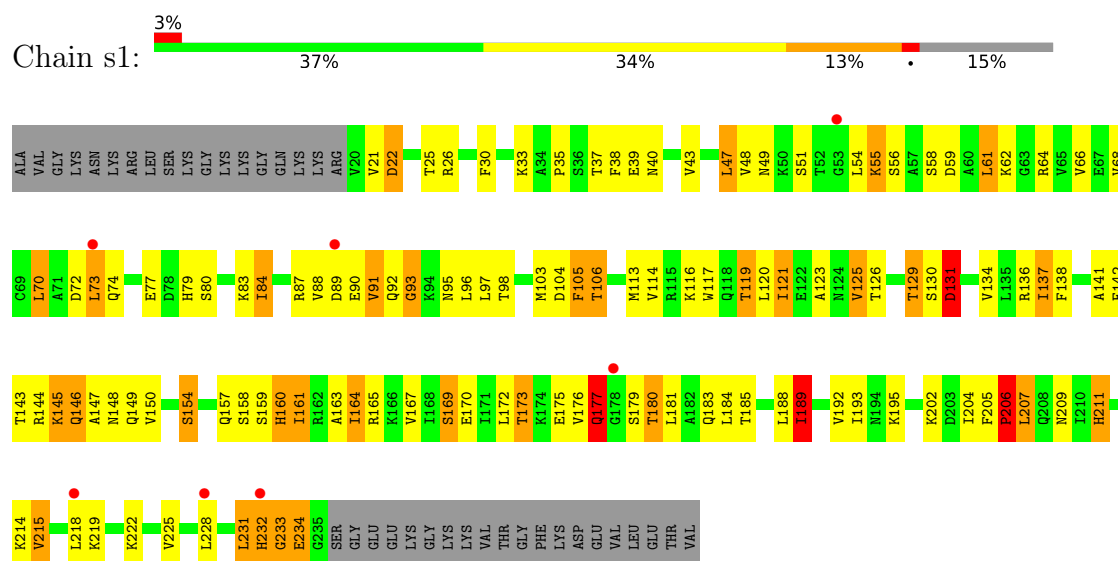
• Molecule 2: 40S ribosomal protein S0-A



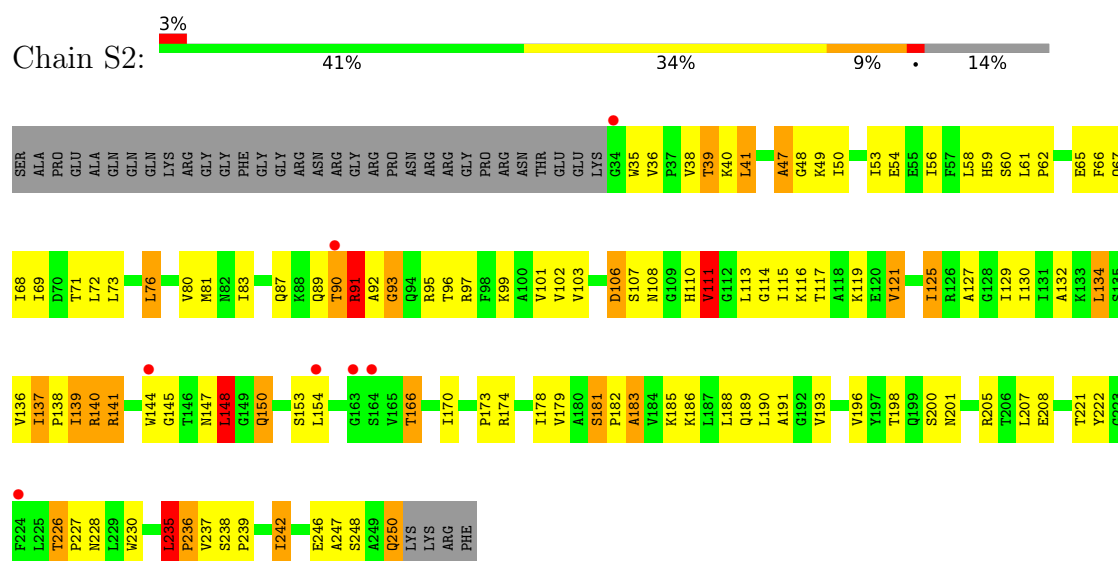
• Molecule 3: 40S ribosomal protein S1-A



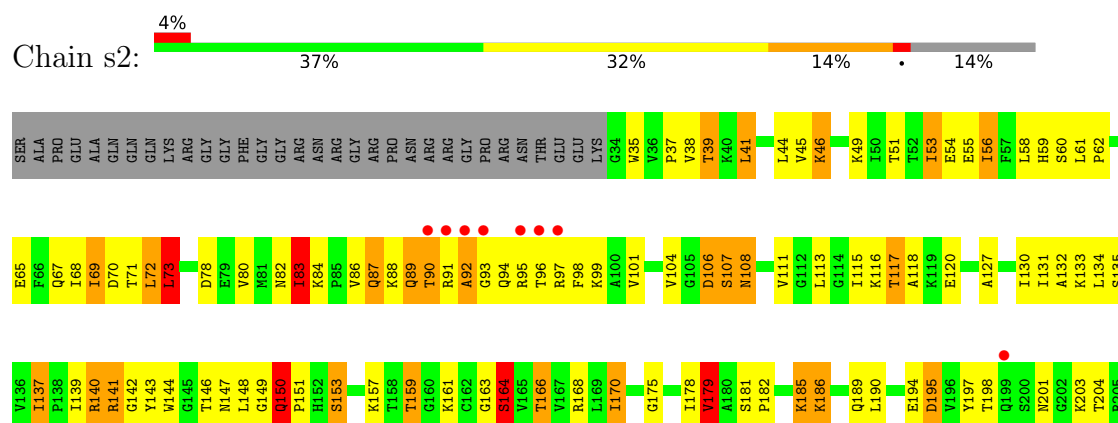
• Molecule 3: 40S ribosomal protein S1-A



• Molecule 4: 40S ribosomal protein S2

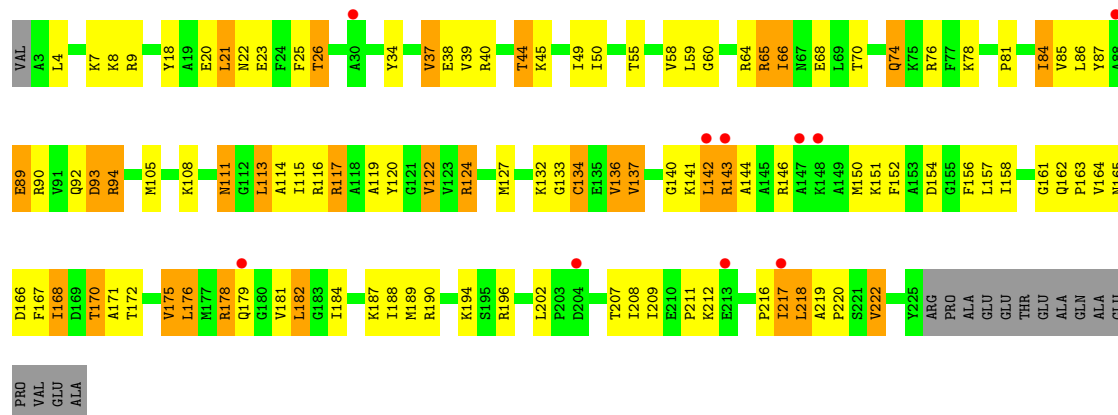


• Molecule 4: 40S ribosomal protein S2

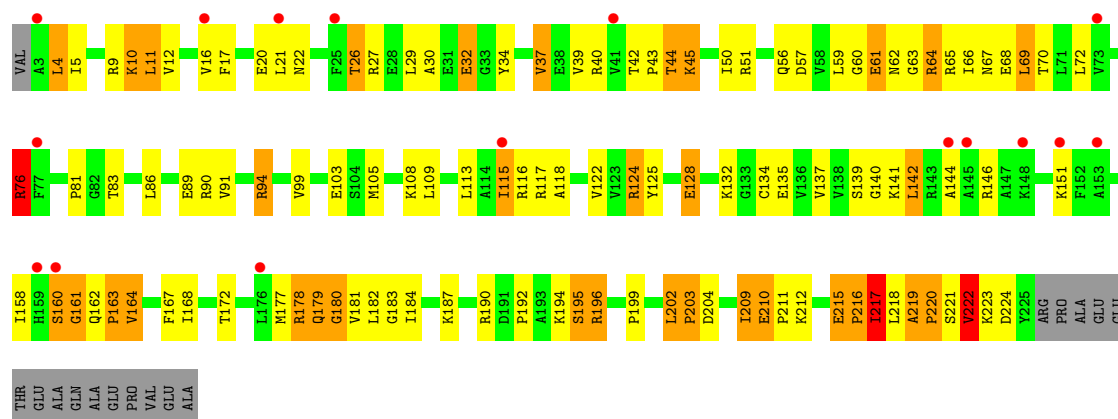




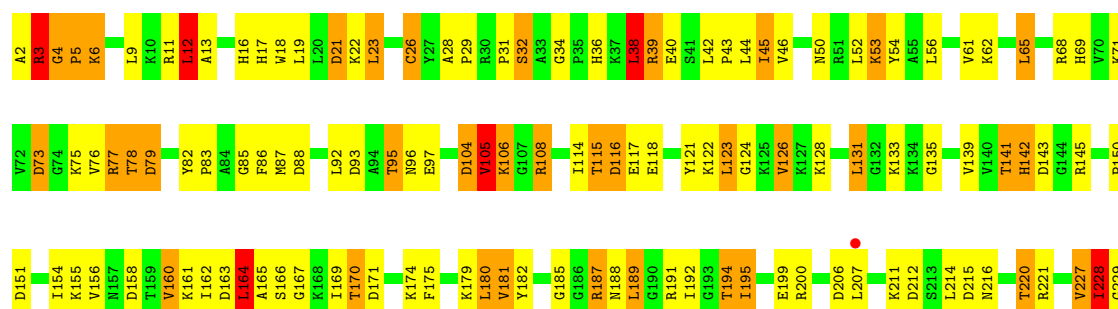
• Molecule 5: 40S ribosomal protein S3



• Molecule 5: 40S ribosomal protein S3

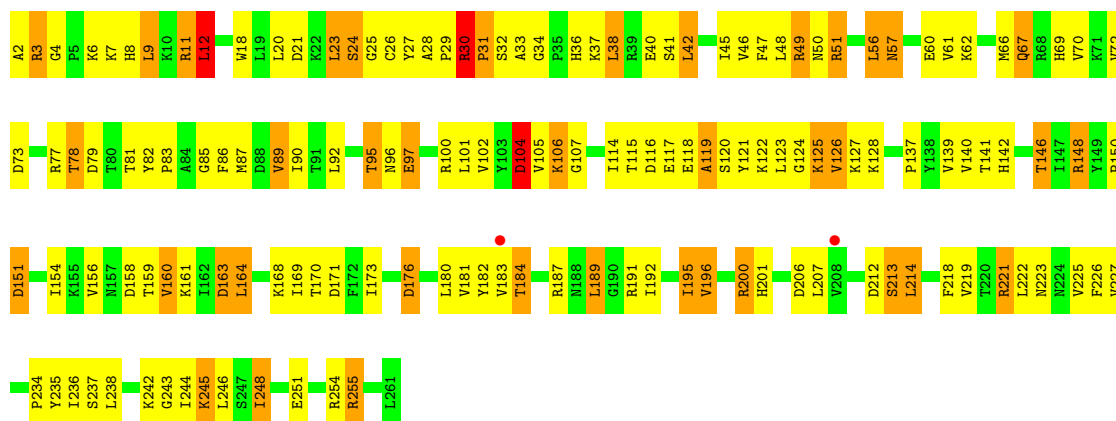
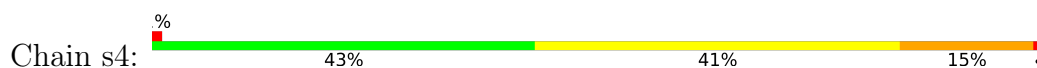


• Molecule 6: 40S ribosomal protein S4-A

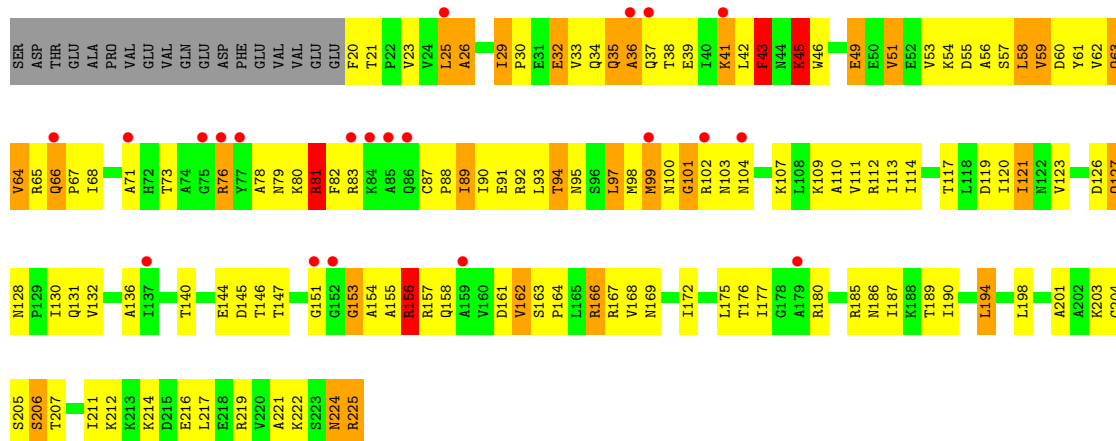




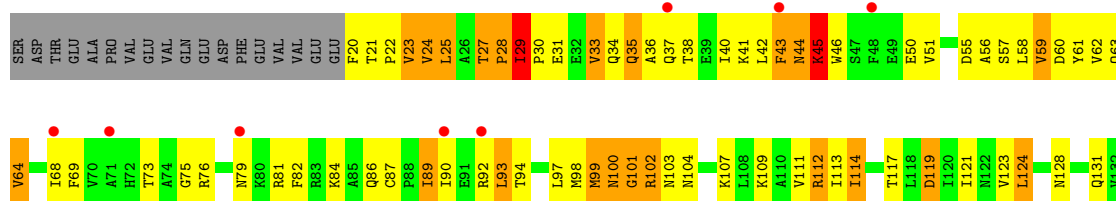
• Molecule 6: 40S ribosomal protein S4-A

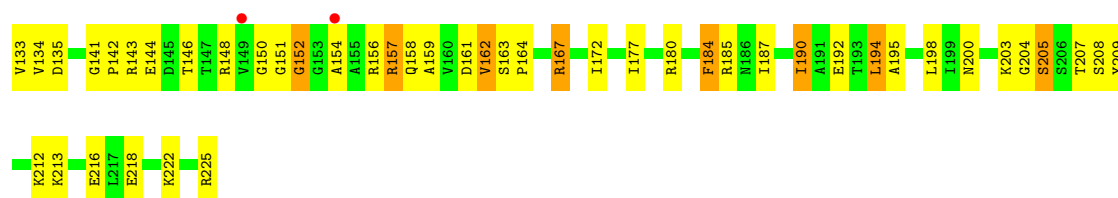


• Molecule 7: 40S ribosomal protein S5

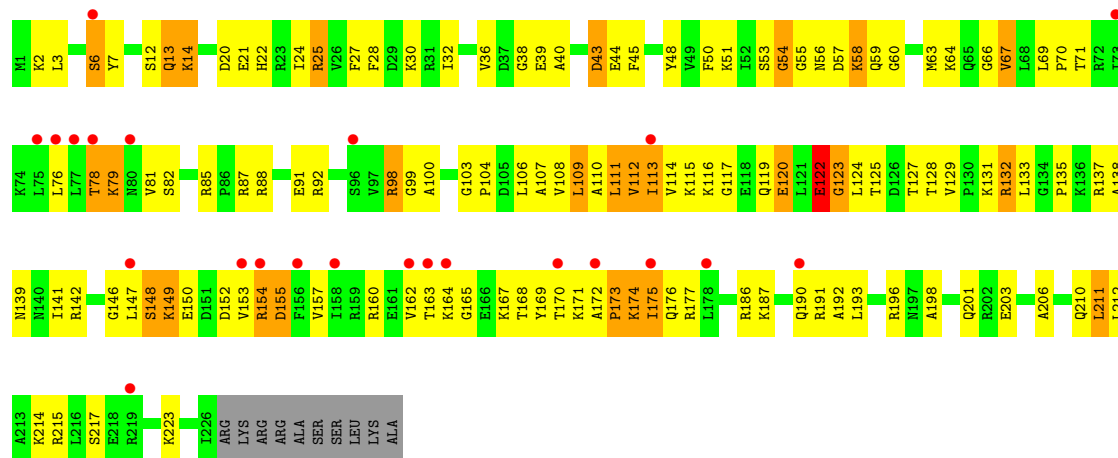
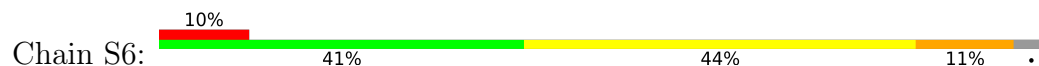


• Molecule 7: 40S ribosomal protein S5

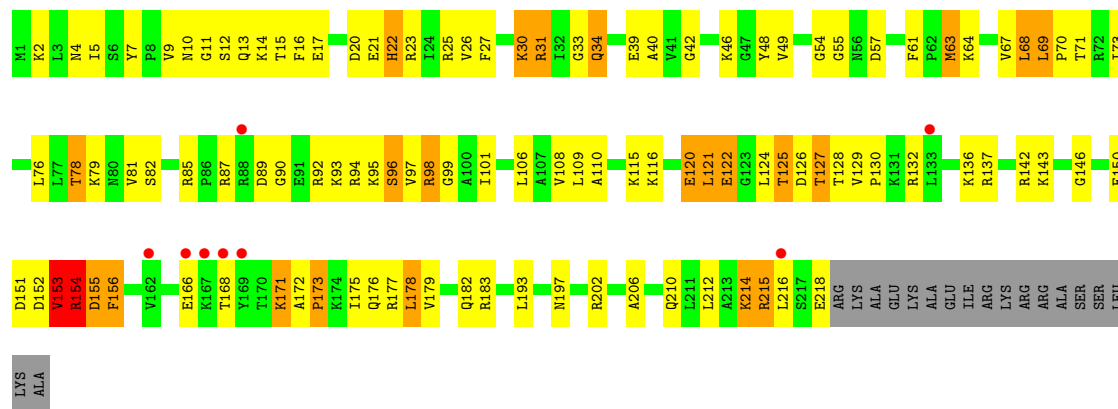




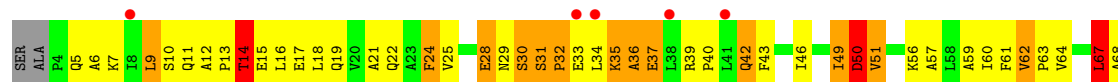
• Molecule 8: 40S ribosomal protein S6-A

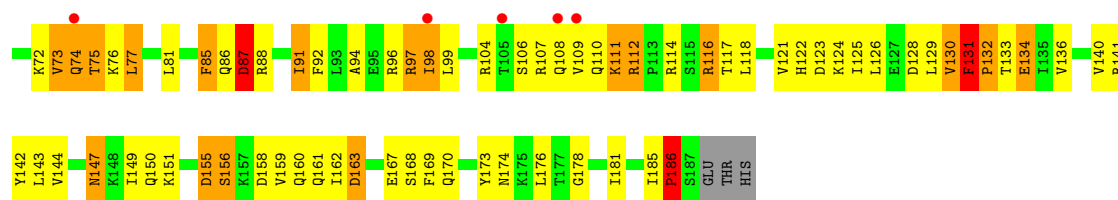


• Molecule 8: 40S ribosomal protein S6-A

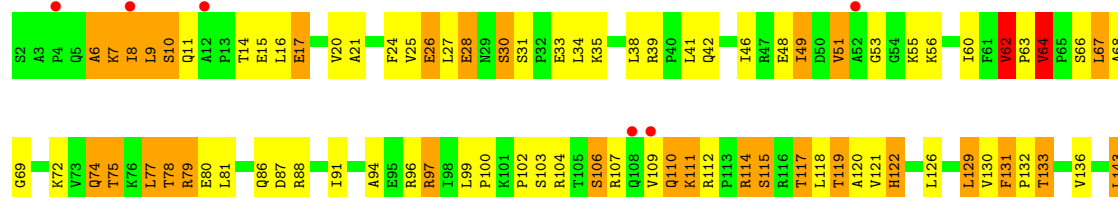


• Molecule 9: 40S ribosomal protein S7-A

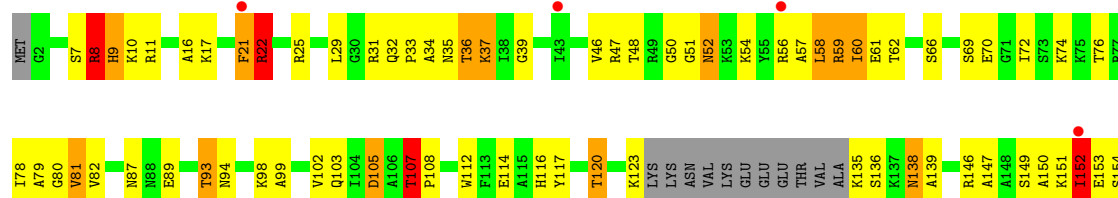




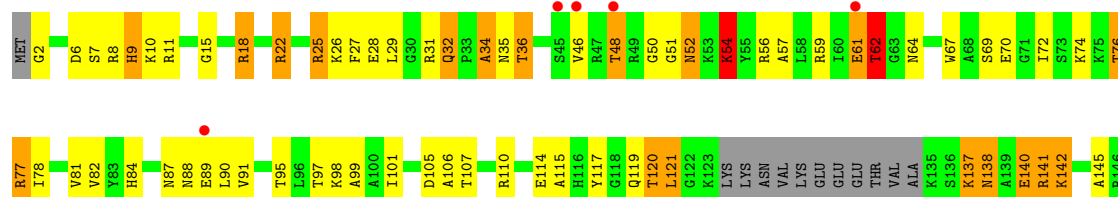
• Molecule 9: 40S ribosomal protein S7-A



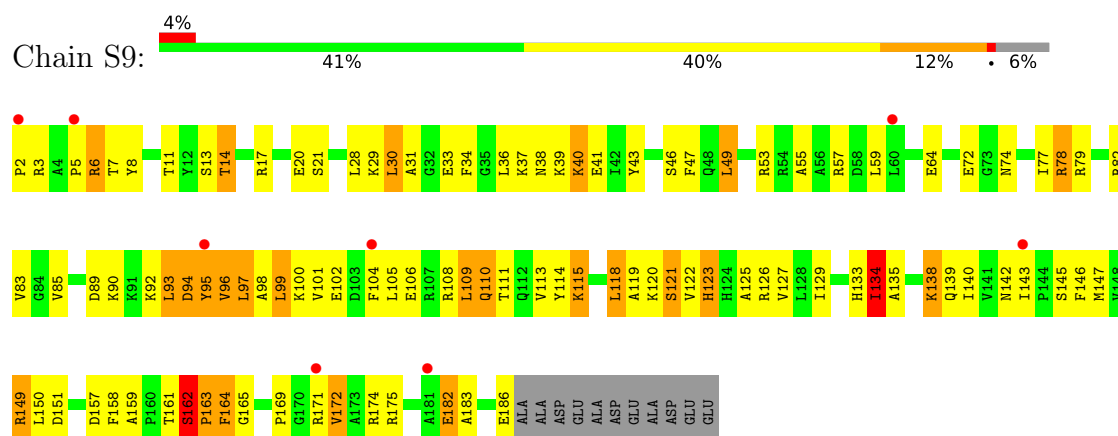
• Molecule 10: 40S ribosomal protein S8-A



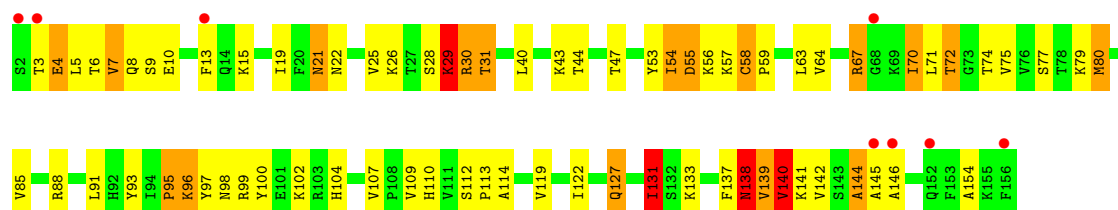
• Molecule 10: 40S ribosomal protein S8-A



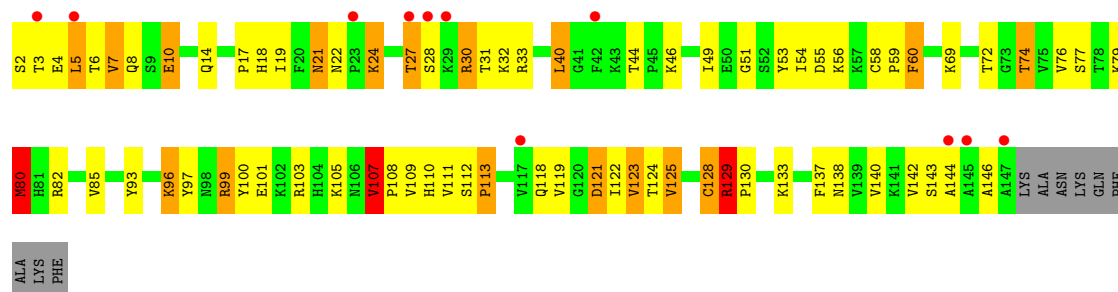
• Molecule 11: 40S ribosomal protein S9-A



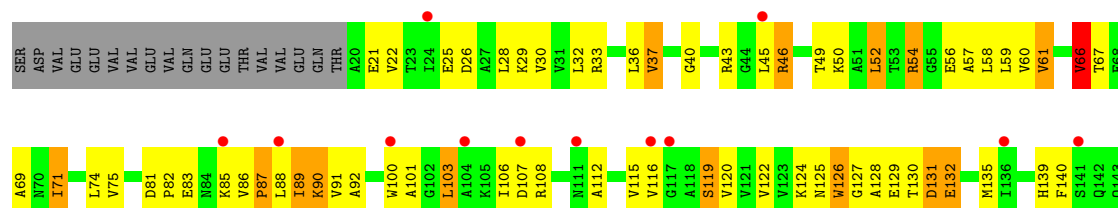
- Molecule 13: 40S ribosomal protein S11-A



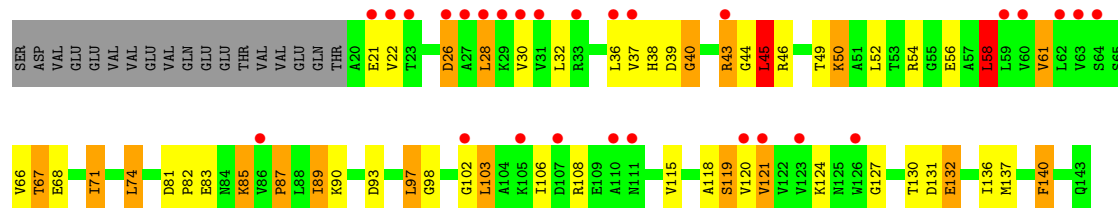
- Molecule 13: 40S ribosomal protein S11-A



- Molecule 14: 40S ribosomal protein S12



- Molecule 14: 40S ribosomal protein S12

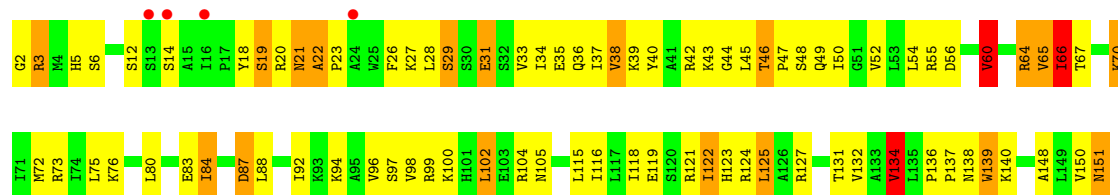
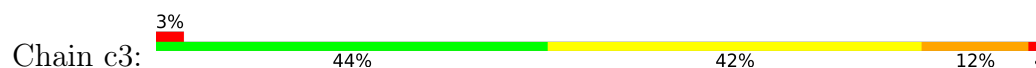


- Molecule 15: 40S ribosomal protein S13

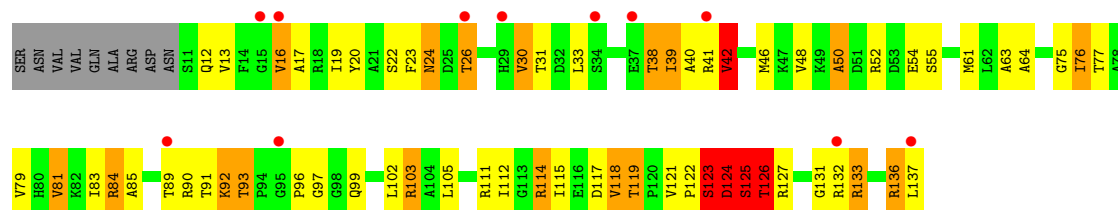




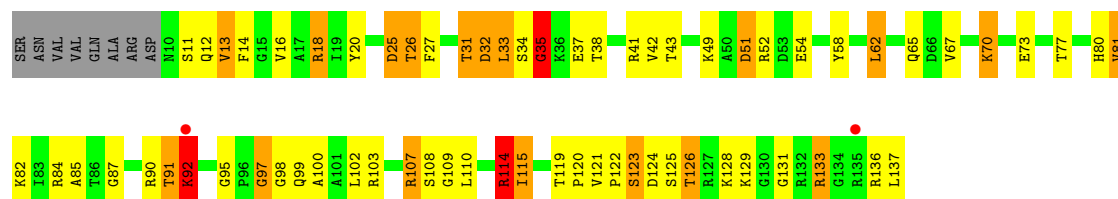
• Molecule 15: 40S ribosomal protein S13



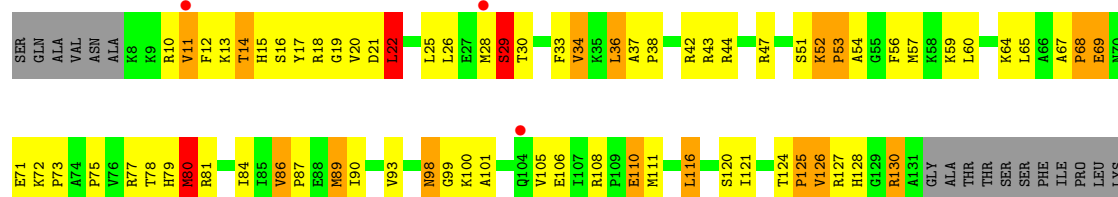
• Molecule 16: 40S ribosomal protein S14-A



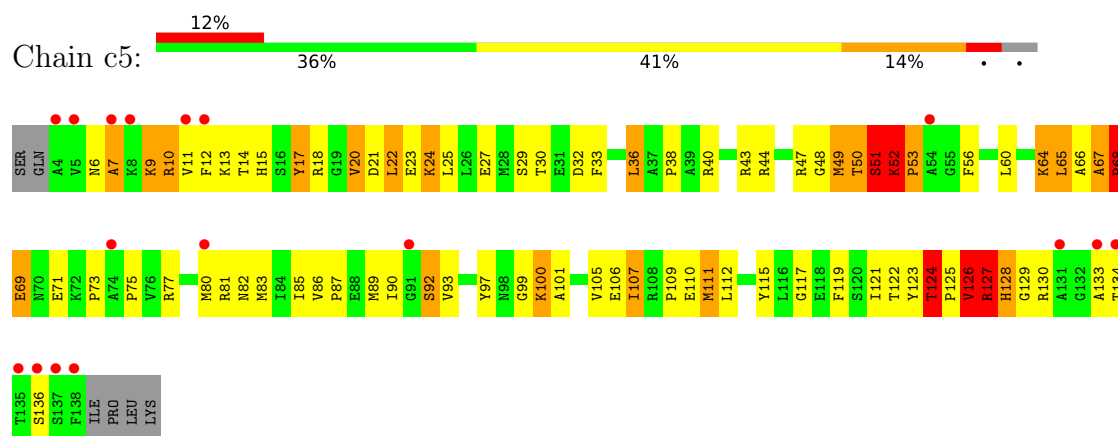
• Molecule 16: 40S ribosomal protein S14-A



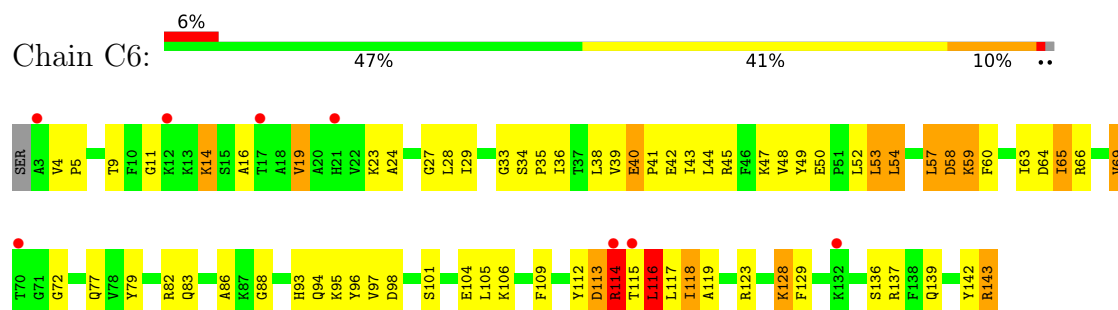
• Molecule 17: 40S ribosomal protein S15



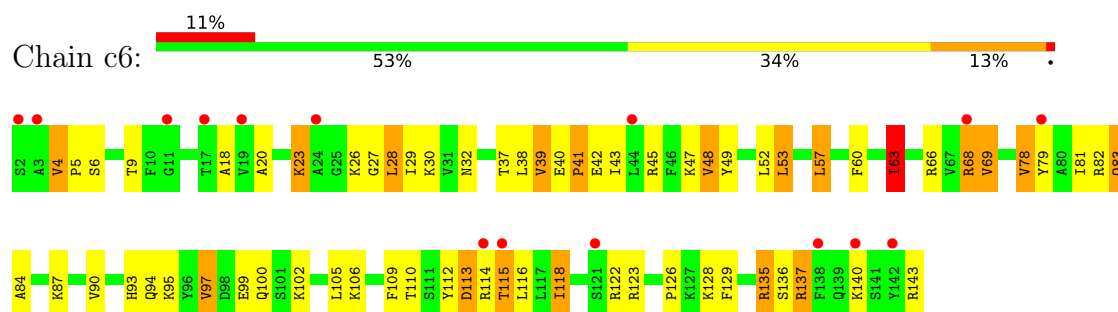
- Molecule 17: 40S ribosomal protein S15



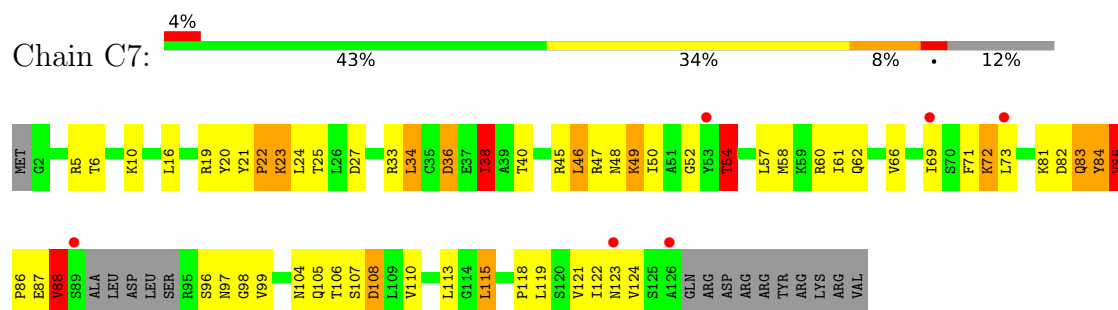
- Molecule 18: 40S ribosomal protein S16-A



- Molecule 18: 40S ribosomal protein S16-A

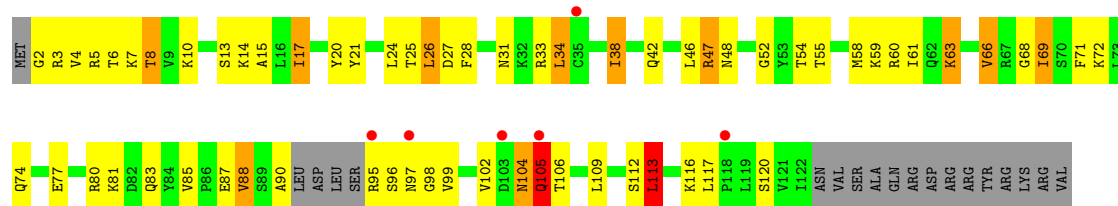


- Molecule 19: 40S ribosomal protein S17-A

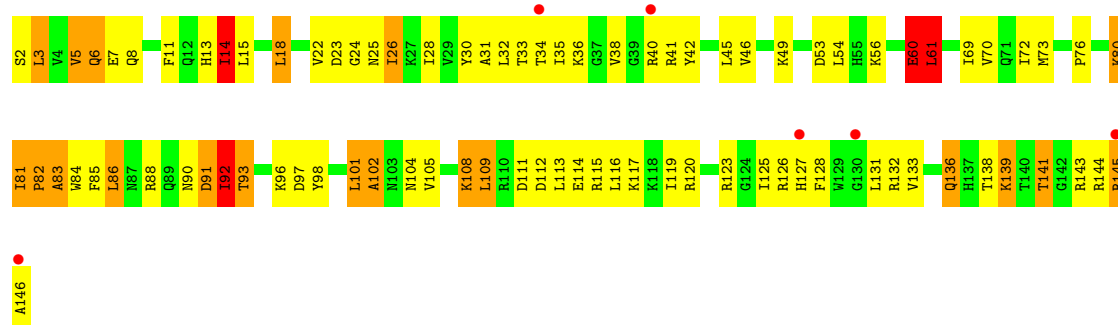


- Molecule 19: 40S ribosomal protein S17-A

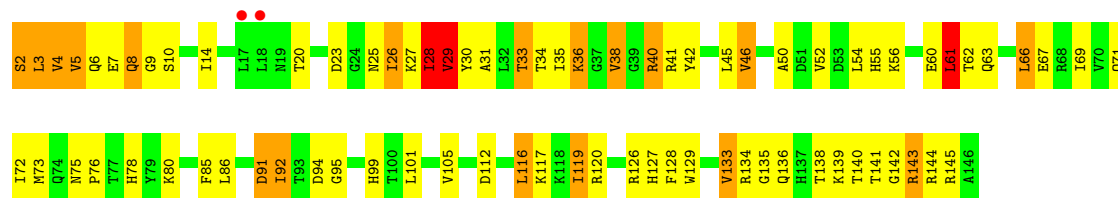




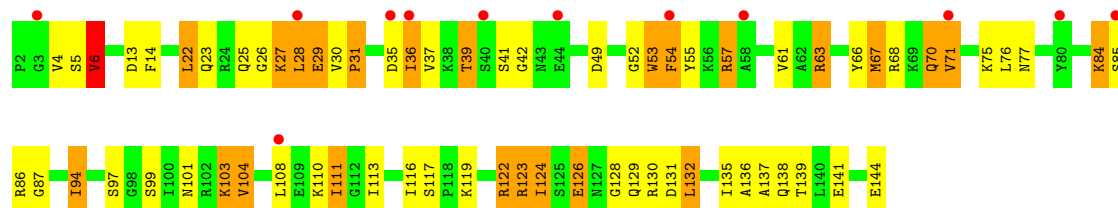
• Molecule 20: 40S ribosomal protein S18-A



• Molecule 20: 40S ribosomal protein S18-A



• Molecule 21: 40S ribosomal protein S19-A

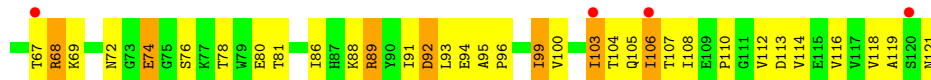
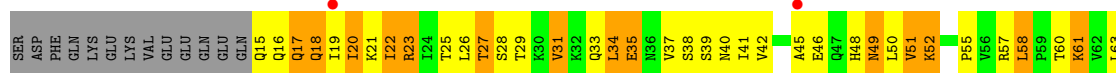


• Molecule 21: 40S ribosomal protein S19-A

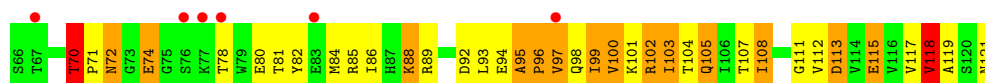
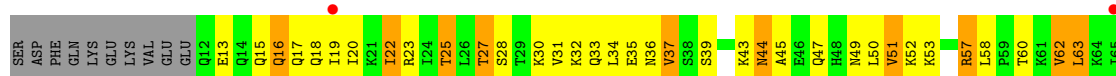




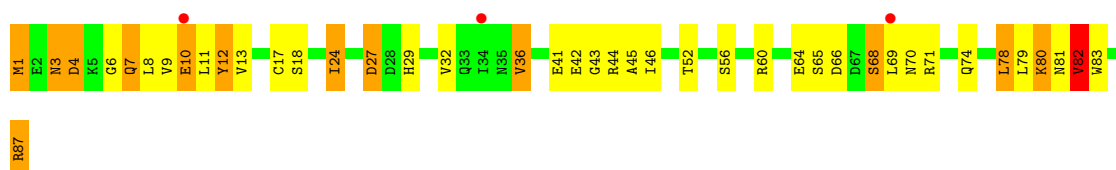
- Molecule 22: 40S ribosomal protein S20



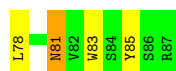
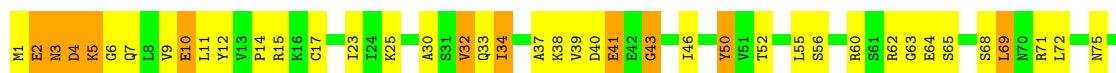
- Molecule 22: 40S ribosomal protein S20



- Molecule 23: 40S ribosomal protein S21-A

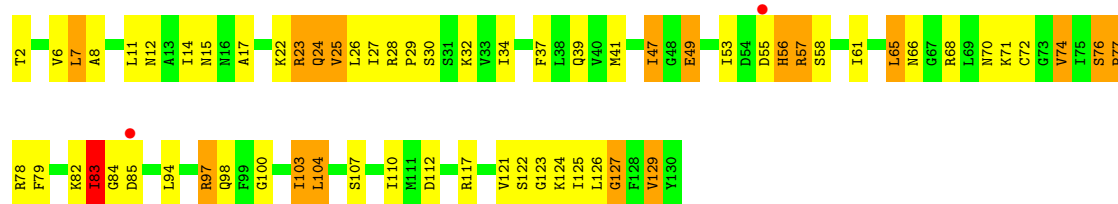


- Molecule 23: 40S ribosomal protein S21-A

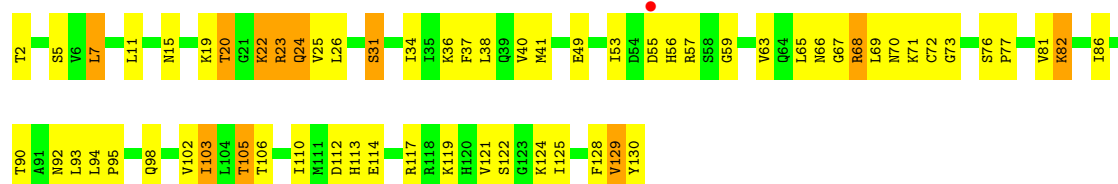


- Molecule 24: 40S ribosomal protein S22-A

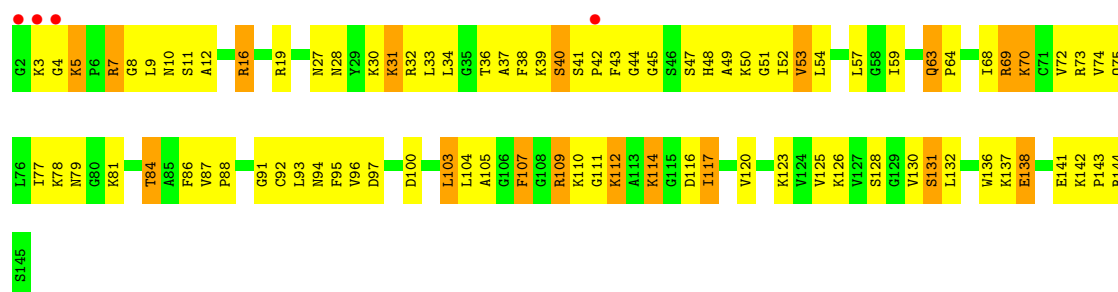




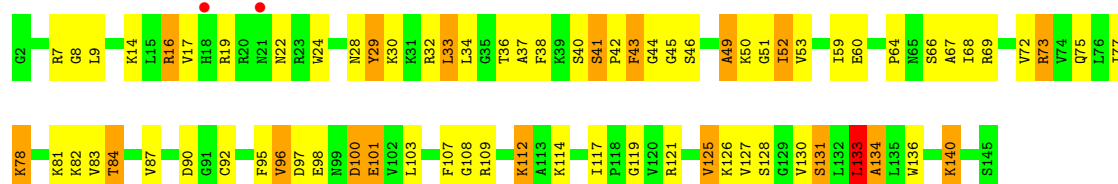
• Molecule 24: 40S ribosomal protein S22-A



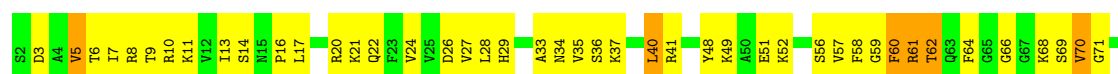
• Molecule 25: 40S ribosomal protein S23-A



• Molecule 25: 40S ribosomal protein S23-A

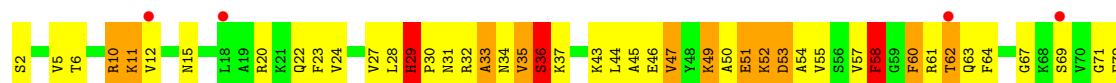


• Molecule 26: 40S ribosomal protein S24-A

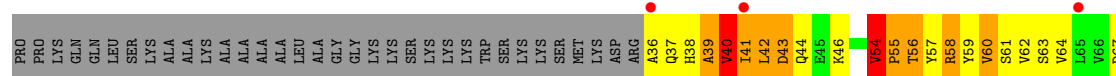




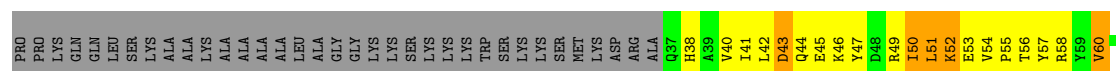
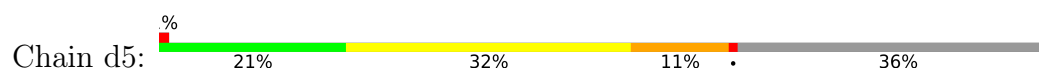
- Molecule 26: 40S ribosomal protein S24-A



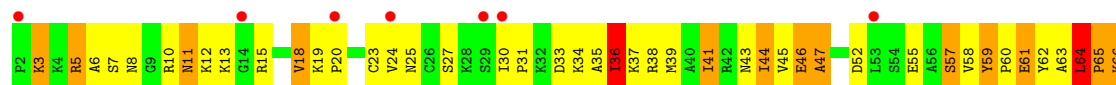
- Molecule 27: 40S ribosomal protein S25-A



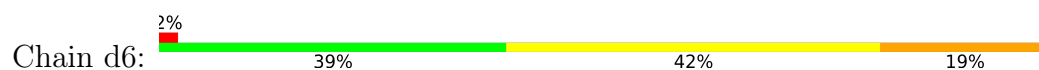
- Molecule 27: 40S ribosomal protein S25-A



- Molecule 28: 40S ribosomal protein S26-B

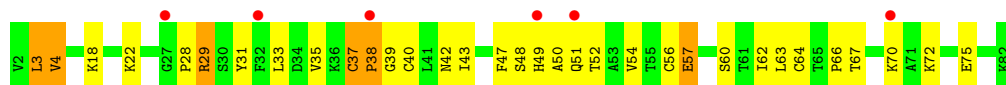


- Molecule 28: 40S ribosomal protein S26-B

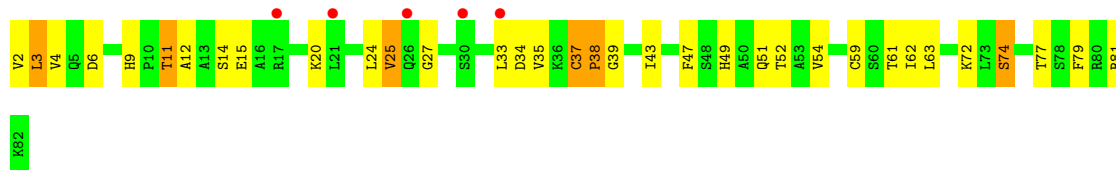




• Molecule 29: 40S ribosomal protein S27-A



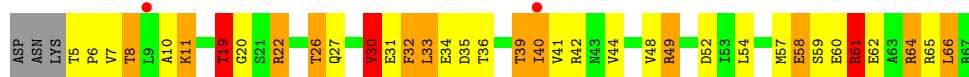
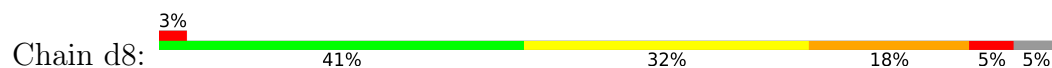
• Molecule 29: 40S ribosomal protein S27-A



• Molecule 30: 40S ribosomal protein S28-A



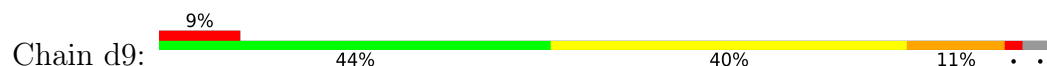
• Molecule 30: 40S ribosomal protein S28-A

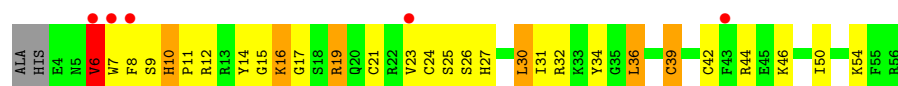


• Molecule 31: 40S ribosomal protein S29-A



• Molecule 31: 40S ribosomal protein S29-A

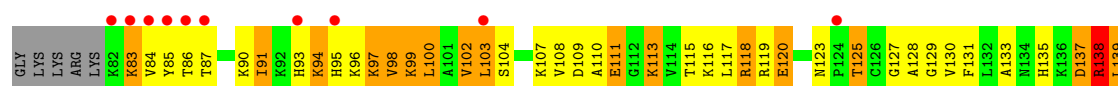




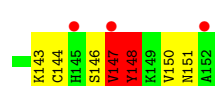
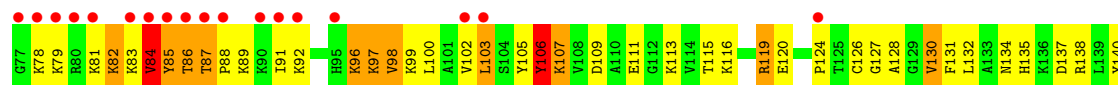
- Molecule 32: 40S ribosomal protein S30-A



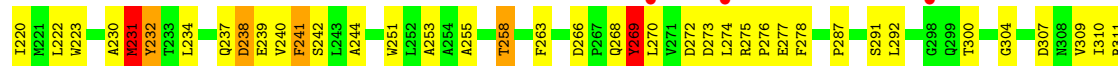
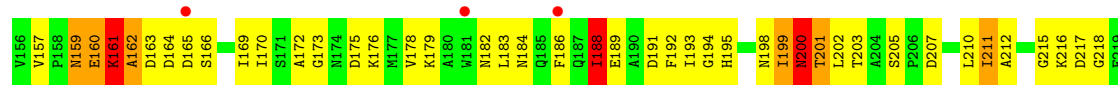
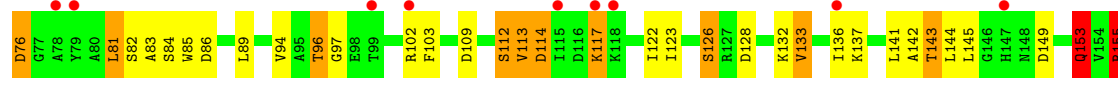
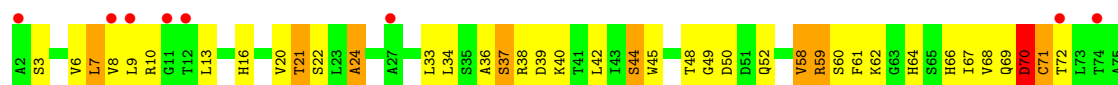
- Molecule 33: Ubiquitin-40S ribosomal protein S31



- Molecule 33: Ubiquitin-40S ribosomal protein S31

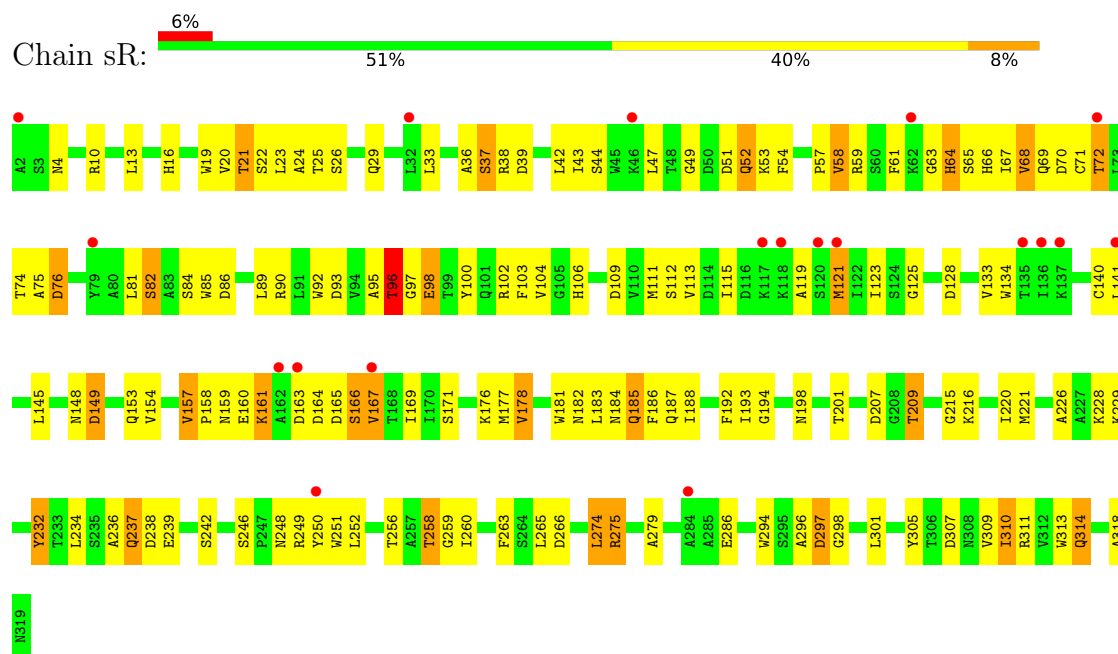


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

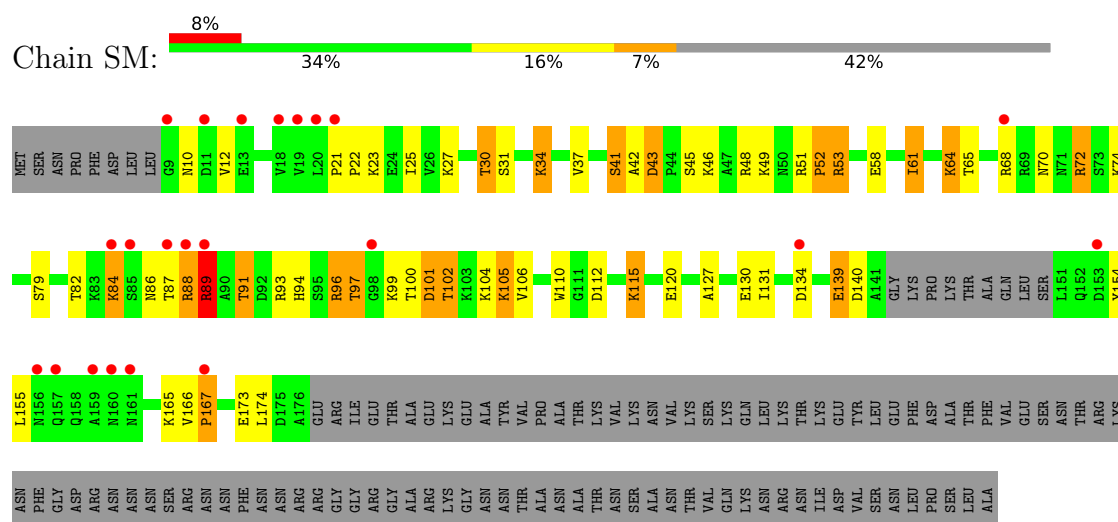


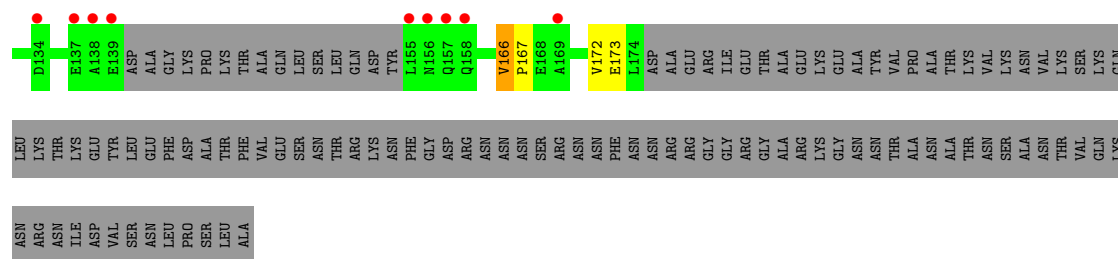
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• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

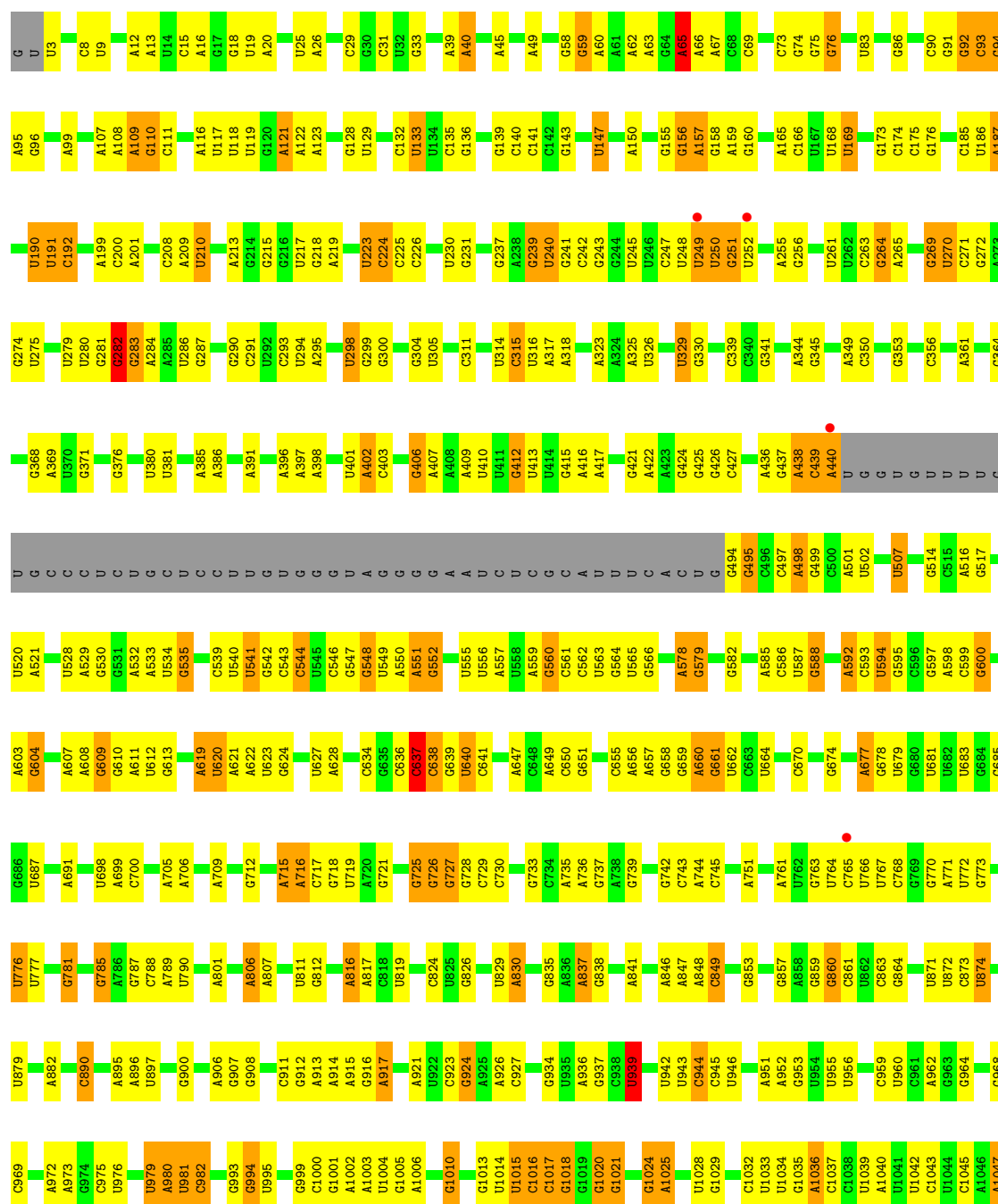
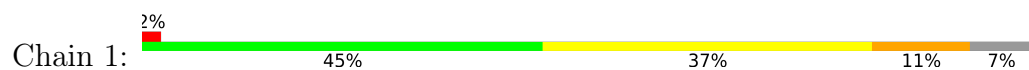


• Molecule 35: Suppressor protein STM1



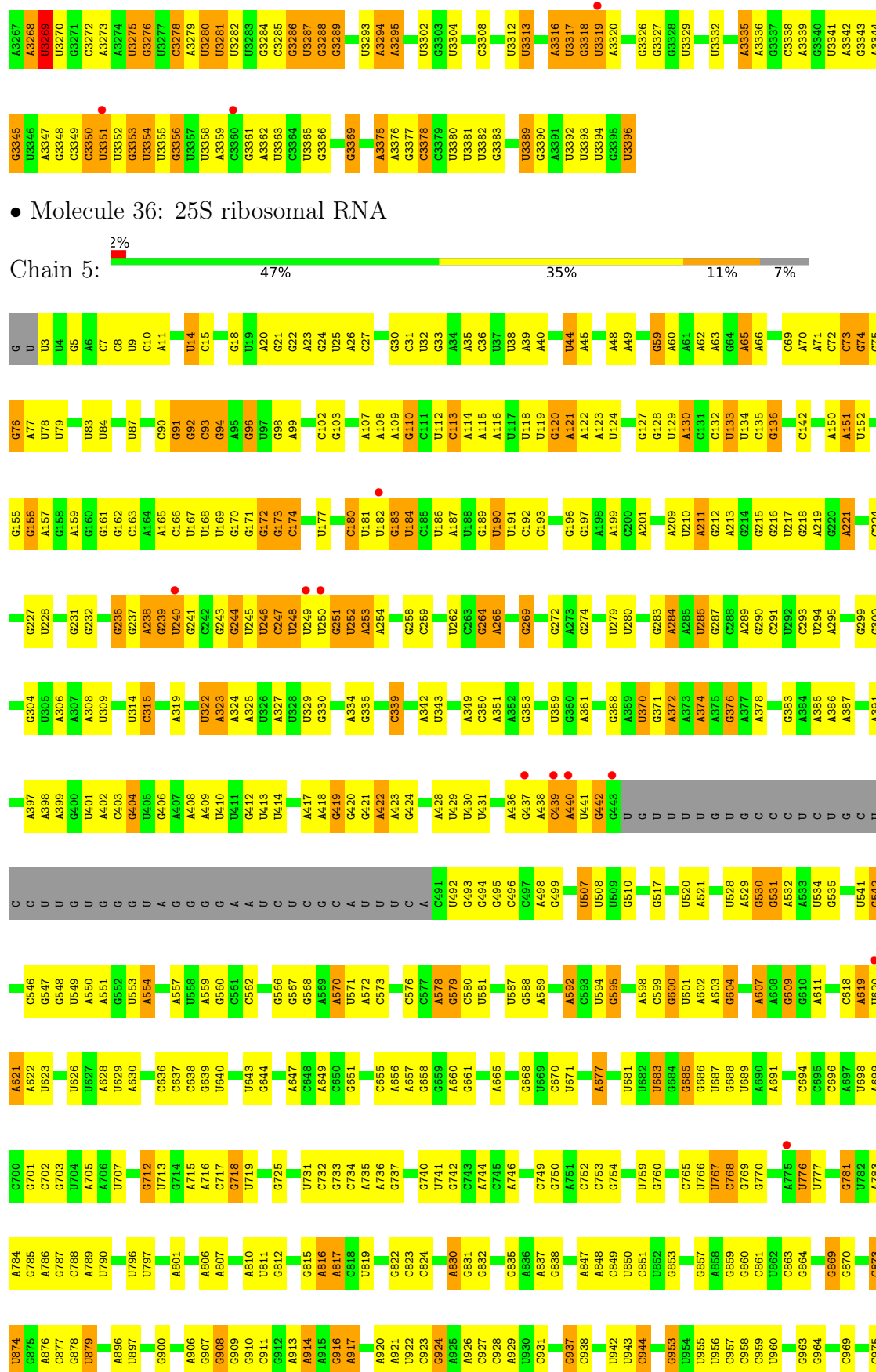


Molecule 36: 25S ribosomal RNA



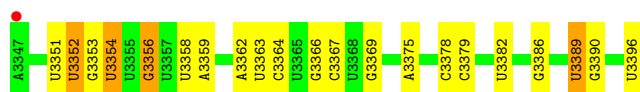


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A3182	C3034	A2872	U2949	G2797	A2703	G2624	U2542	G2403	U2314	G2236	C2156
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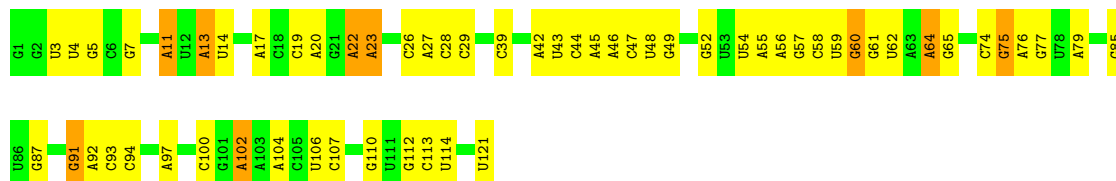


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U	U	U	U1859	U1859	U1695	C1602	C1528	C1427	C1335	C1250	A1150	C1070
U	U	U	U1860	U1860	U1696	C1603	C1529	C1428	C1336	C1251	A1151	C1071
U	U	U	U1861	U1861	U1697	C1604	C1530	C1429	C1337	C1252	A1152	C1072
U	U	U	U1862	U1862	U1698	C1605	C1531	C1430	C1338	C1253	A1153	C1073
U	U	U	U1863	U1863	U1699	C1606	C1532	C1431	C1339	C1254	A1154	C1074
U	U	U	U1864	U1864	U1700	C1607	C1533	C1432	C1340	C1255	A1155	C1075
U	U	U	U1865	U1865	U1701	C1608	C1534	C1433	C1341	C1256	A1156	C1076
U	U	U	U1866	U1866	U1702	C1609	C1535	C1434	C1342	C1257	A1157	C1077
U	U	U	U1867	U1867	U1703	C1610	C1536	C1435	C1343	C1258	A1158	C1078
U	U	U	U1868	U1868	U1704	C1611	C1537	C1436	C1344	C1259	A1159	C1079
U	U	U	U1869	U1869	U1705	C1612	C1538	C1437	C1345	C1260	A1160	C1080
U	U	U	U1870	U1870	U1706	C1613	C1539	C1438	C1346	C1261	A1161	C1081
U	U	U	U1871	U1871	U1707	C1614	C1540	C1439	C1347	C1262	A1162	C1082
U	U	U	U1872	U1872	U1708	C1615	C1541	C1440	C1348	C1263	A1163	C1083
U	U	U	U1873	U1873	U1709	C1616	C1542	C1441	C1349	C1264	A1164	C1084
U	U	U	U1874	U1874	U1710	C1617	C1543	C1442	C1350	C1265	A1165	C1085
U	U	U	U1875	U1875	U1711	C1618	C1544	C1443	C1351	C1266	A1166	C1086
U	U	U	U1876	U1876	U1712	C1619	C1545	C1444	C1352	C1267	A1167	C1087
U	U	U	U1877	U1877	U1713	C1620	C1546	C1445	C1353	C1268	A1168	C1088
U	U	U	U1878	U1878	U1714	C1621	C1547	C1446	C1354	C1269	A1169	C1089
U	U	U	U1879	U1879	U1715	C1622	C1548	C1447	C1355	C1270	A1170	C1090
U	U	U	U1880	U1880	U1716	C1623	C1549	C1448	C1356	C1271	A1171	C1091
U	U	U	U1881	U1881	U1717	C1624	C1550	C1449	C1357	C1272	A1172	C1092
U	U	U	U1882	U1882	U1718	C1625	C1551	C1450	C1358	C1273	A1173	C1093
U	U	U	U1883	U1883	U1719	C1626	C1552	C1451	C1359	C1274	A1174	C1094
U	U	U	U1884	U1884	U1720	C1627	C1553	C1452	C1360	C1275	A1175	C1095
U	U	U	U1885	U1885	U1721	C1628	C1554	C1453	C1361	C1276	A1176	C1096
U	U	U	U1886	U1886	U1722	C1629	C1555	C1454	C1362	C1277	A1177	C1097
U	U	U	U1887	U1887	U1723	C1630	C1556	C1455	C1363	C1278	A1178	C1098
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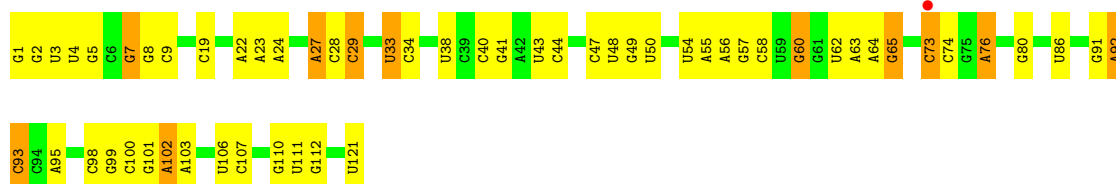




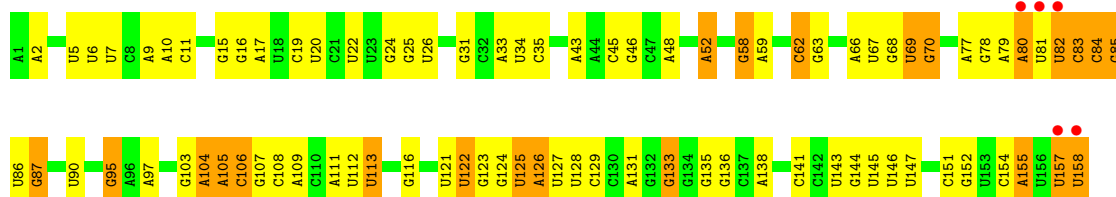
• Molecule 37: 5S ribosomal RNA



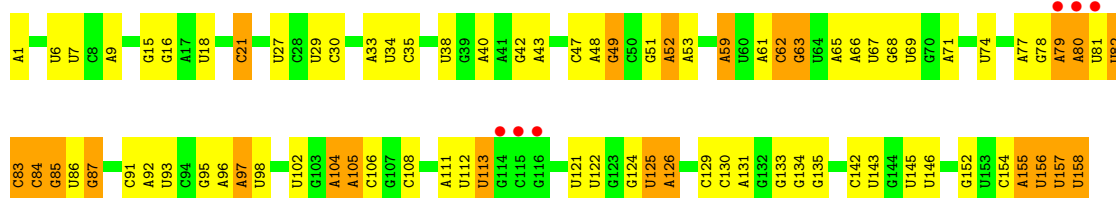
• Molecule 37: 5S ribosomal RNA



• Molecule 38: 5.8S ribosomal RNA

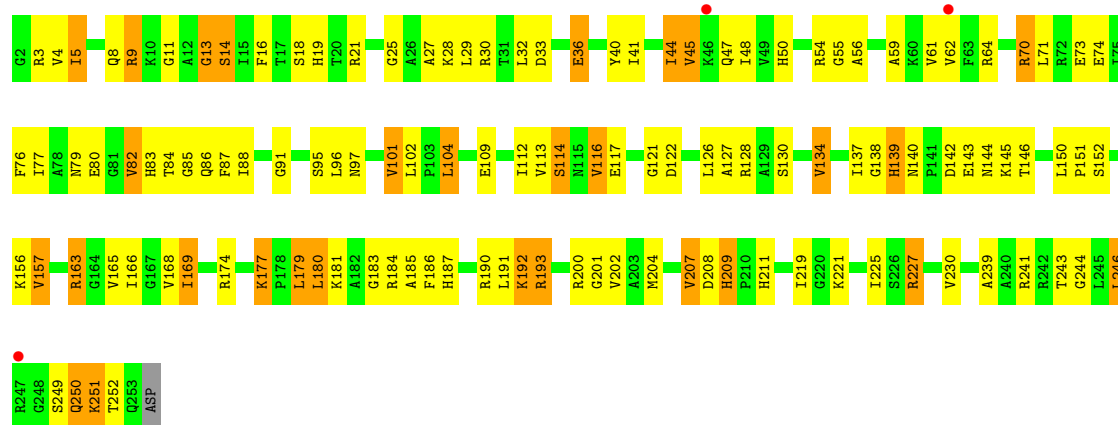


• Molecule 38: 5.8S ribosomal RNA

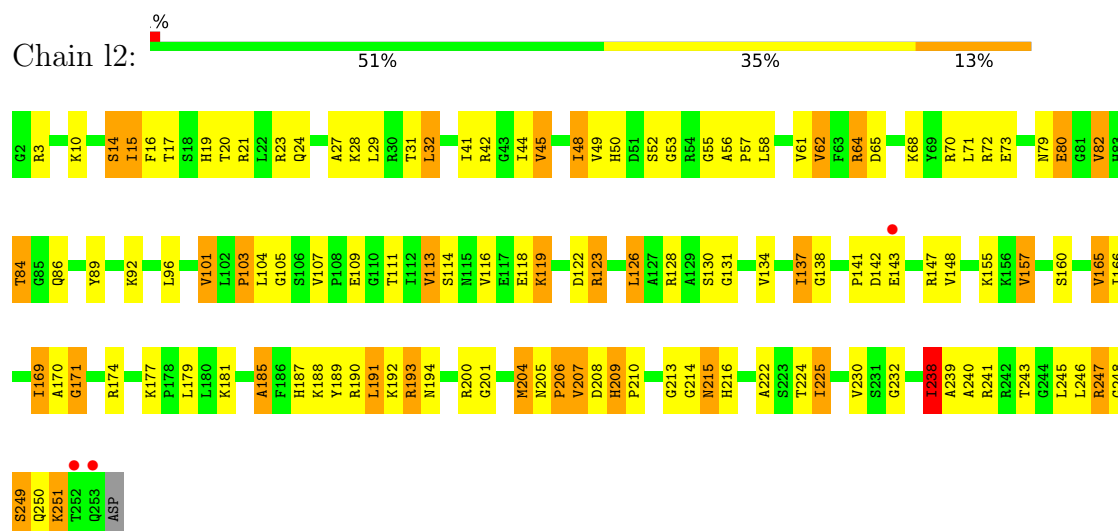


• Molecule 39: 60S ribosomal protein L2-A

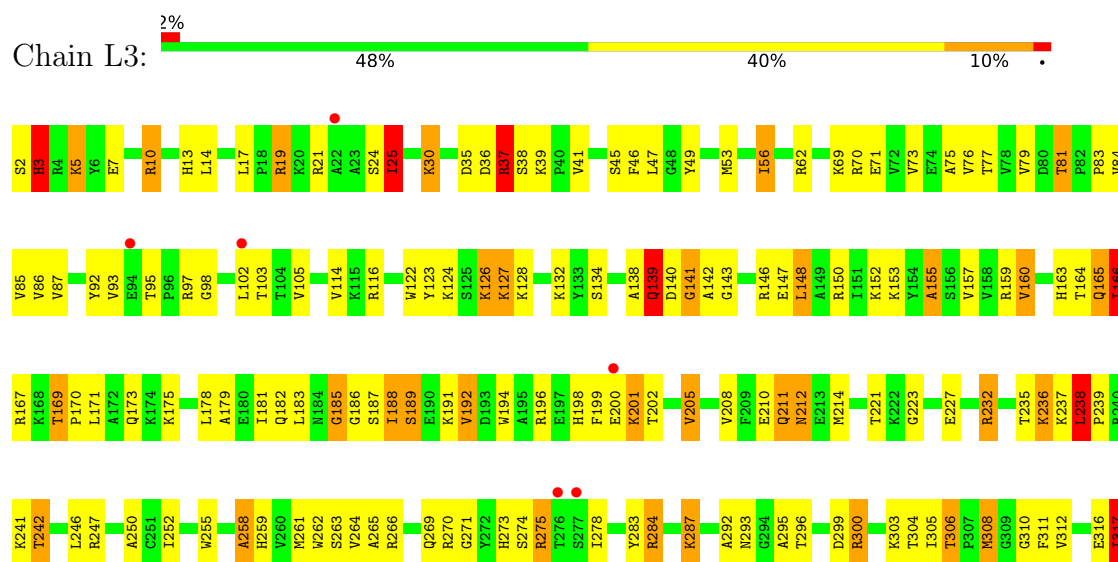




• Molecule 39: 60S ribosomal protein L2-A

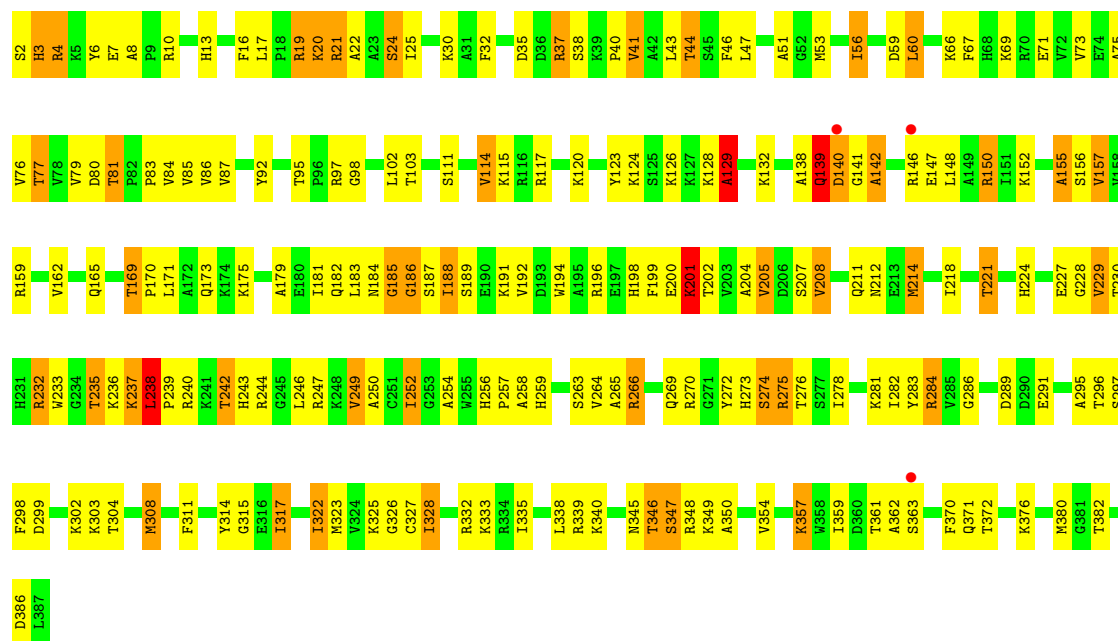


• Molecule 40: 60S ribosomal protein L3

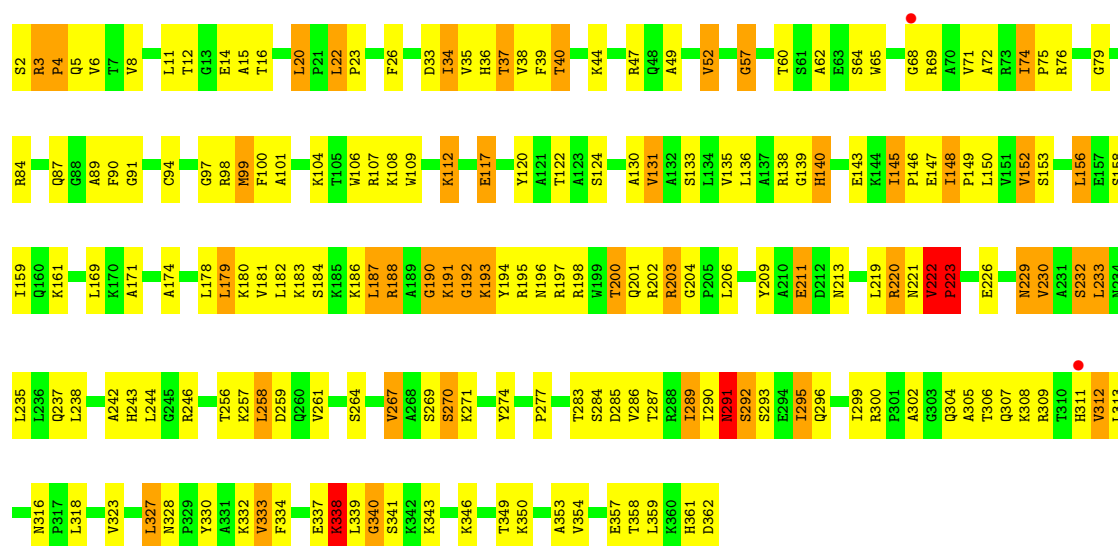




• Molecule 40: 60S ribosomal protein L3

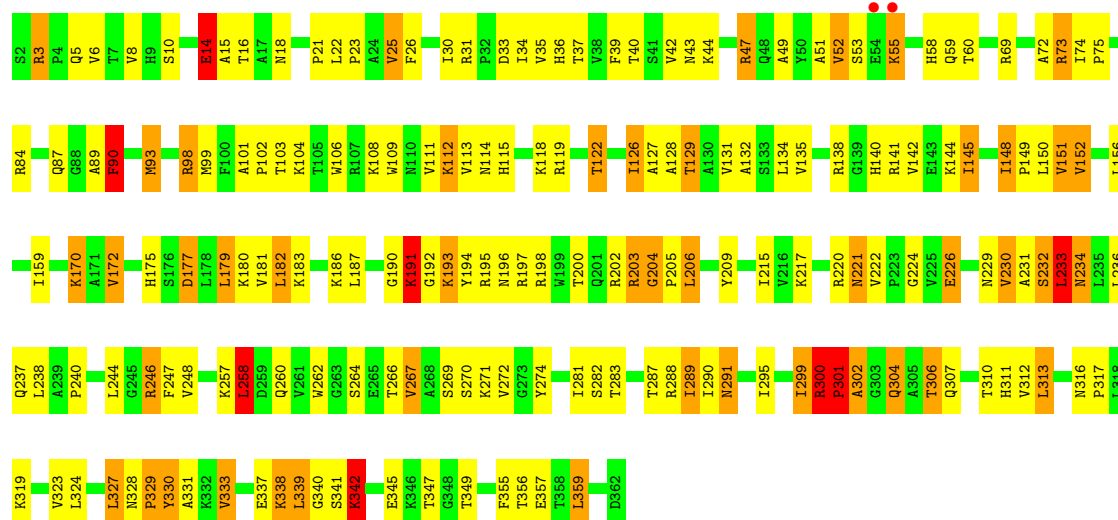


• Molecule 41: 60S ribosomal protein L4-A

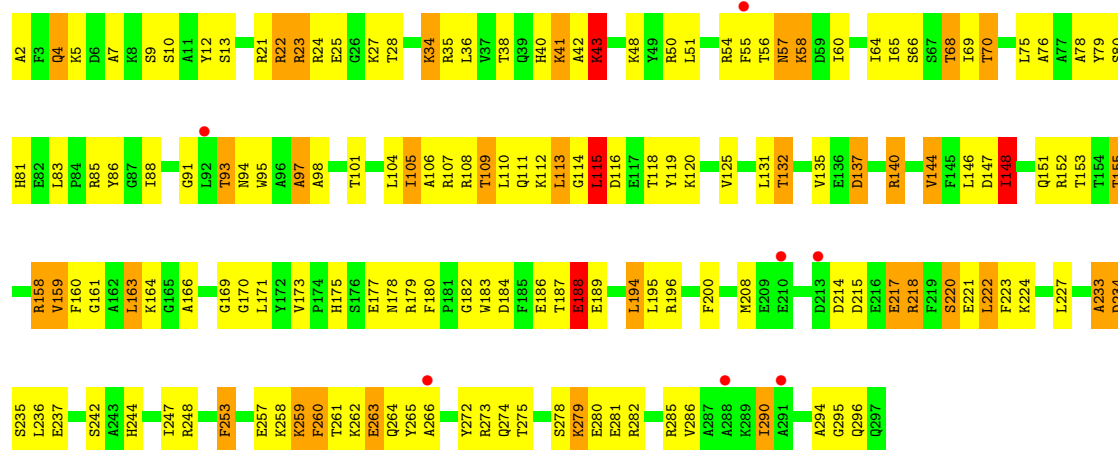


• Molecule 41: 60S ribosomal protein L4-A

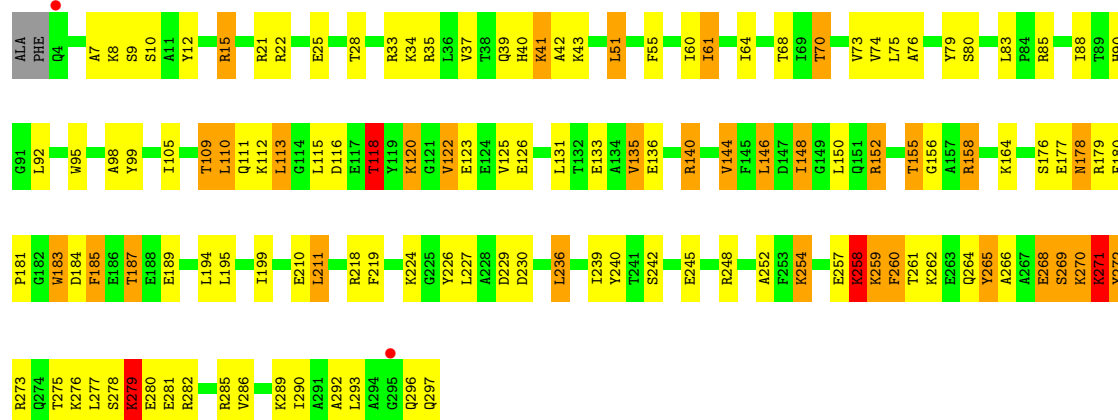




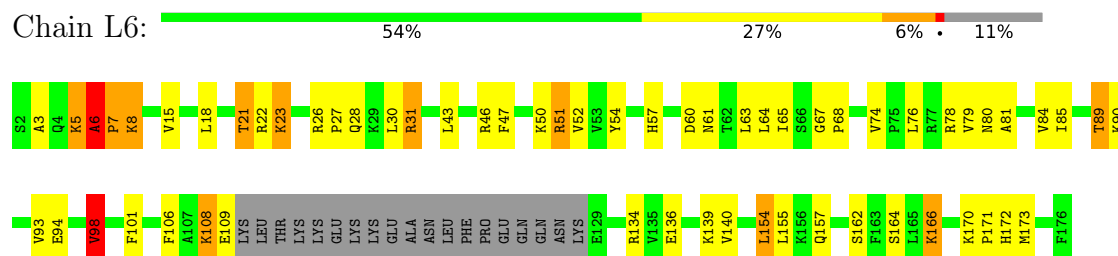
• Molecule 42: 60S ribosomal protein L5



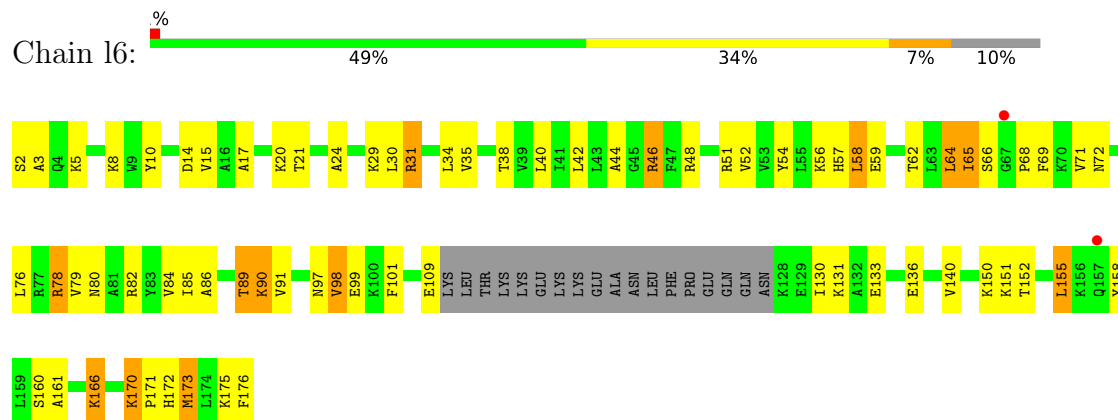
• Molecule 42: 60S ribosomal protein L5



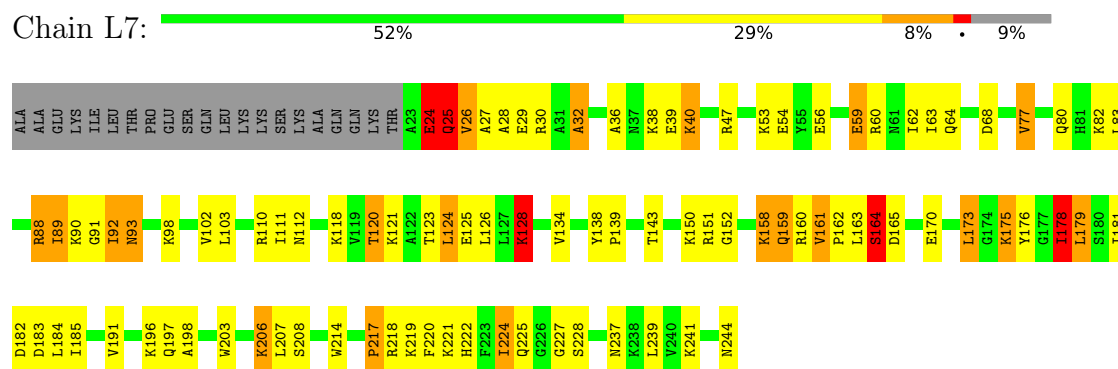
- Molecule 43: 60S ribosomal protein L6-A



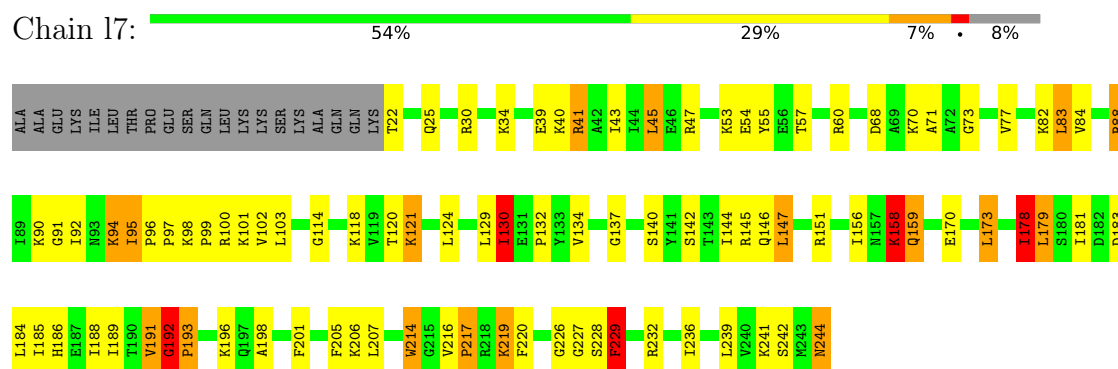
- Molecule 43: 60S ribosomal protein L6-A



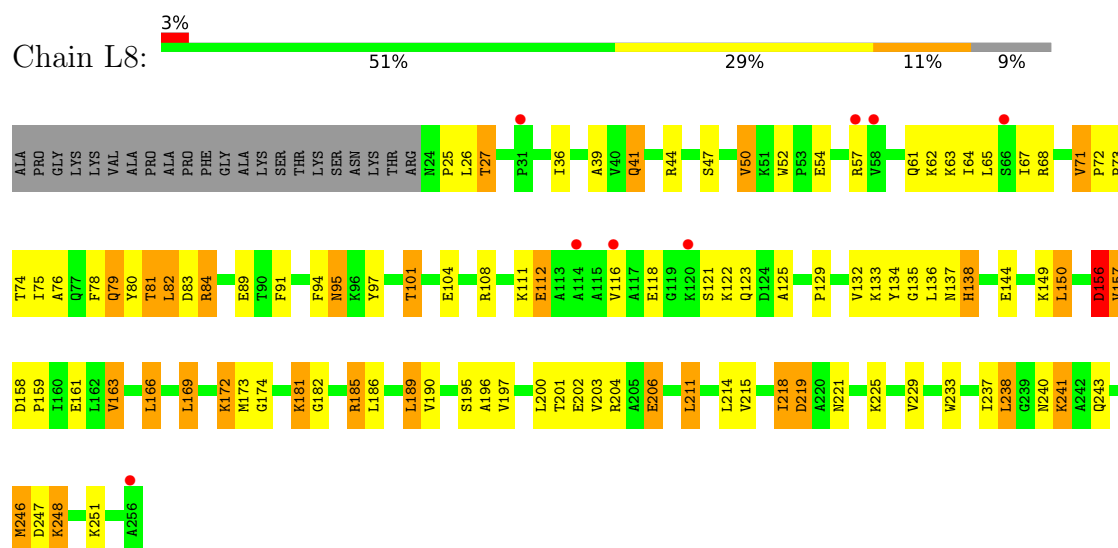
- Molecule 44: 60S ribosomal protein L7-A



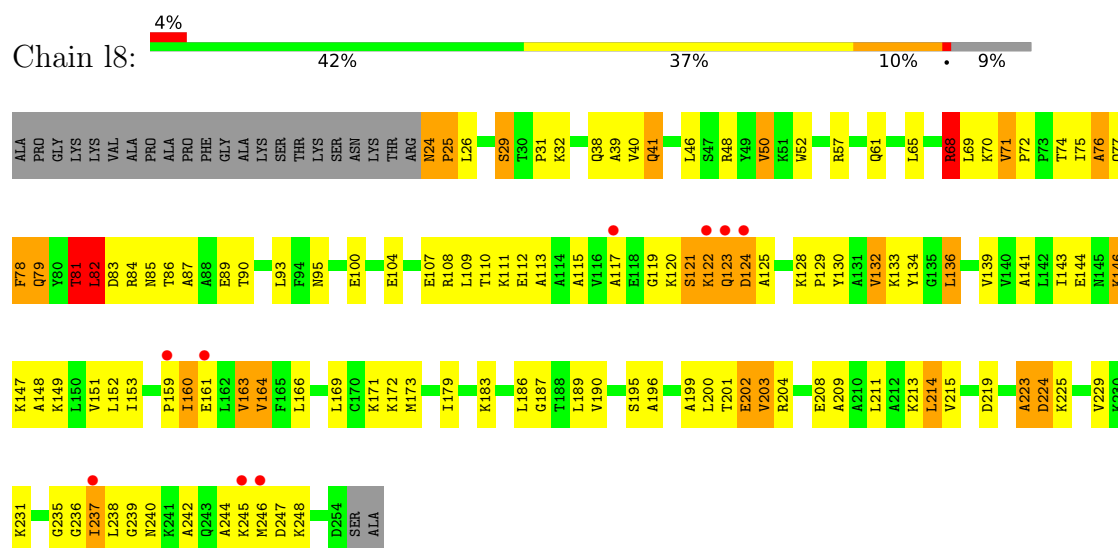
- Molecule 44: 60S ribosomal protein L7-A



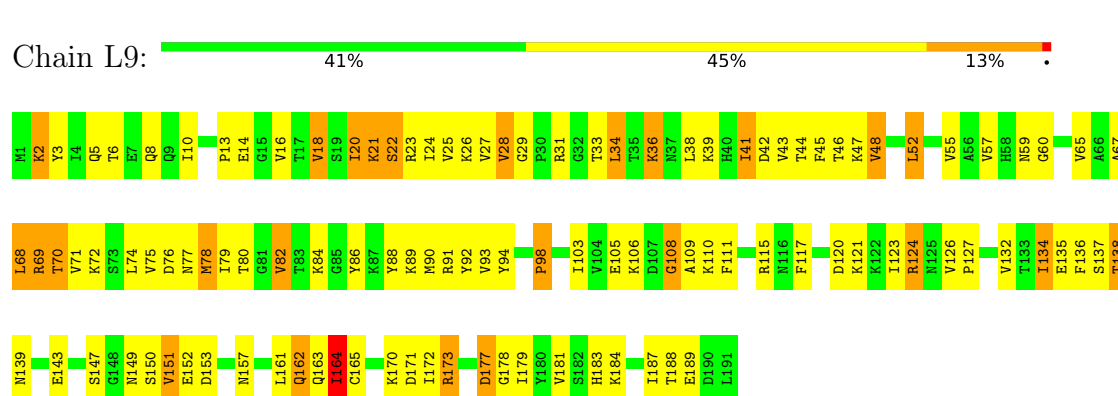
- Molecule 45: 60S ribosomal protein L8-A



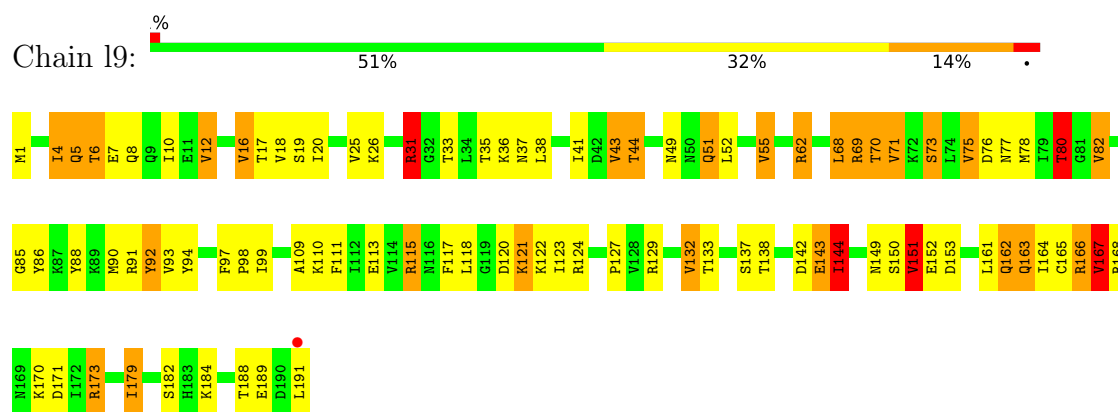
- Molecule 45: 60S ribosomal protein L8-A



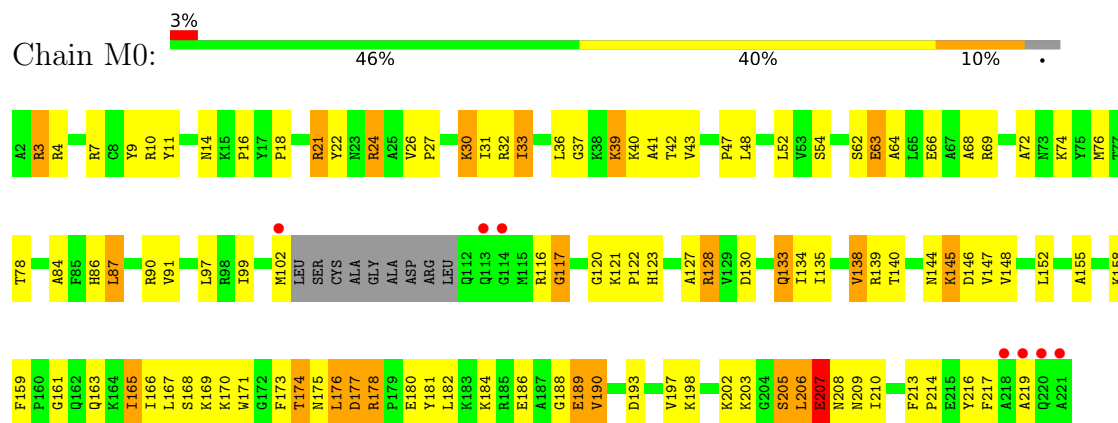
- Molecule 46: 60S ribosomal protein L9-A



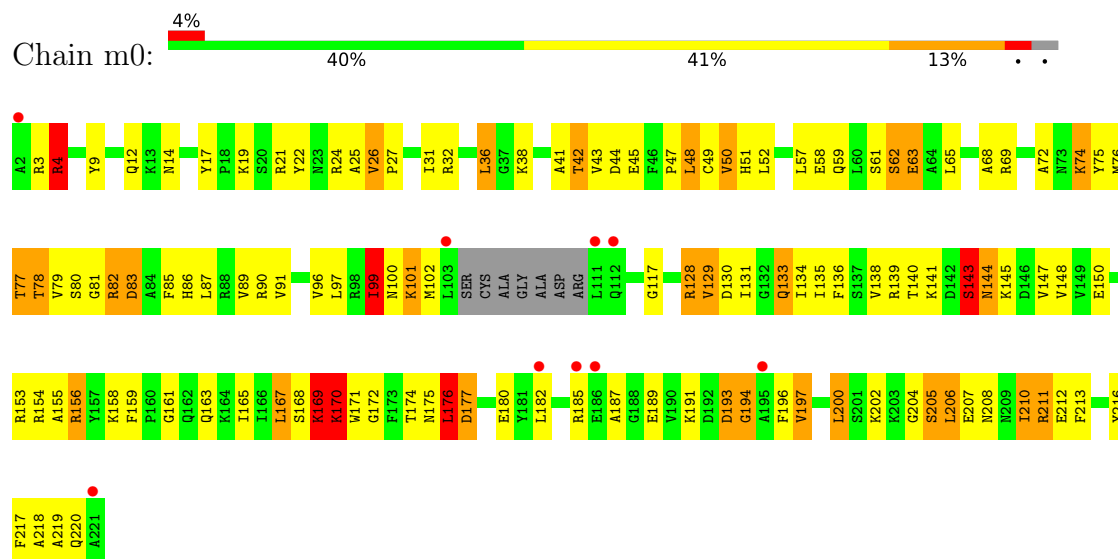
- Molecule 46: 60S ribosomal protein L9-A



• Molecule 47: 60S ribosomal protein L10

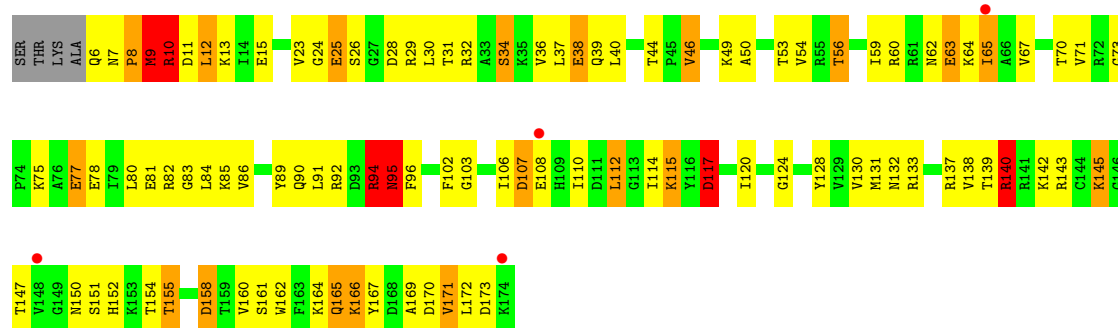


• Molecule 47: 60S ribosomal protein L10

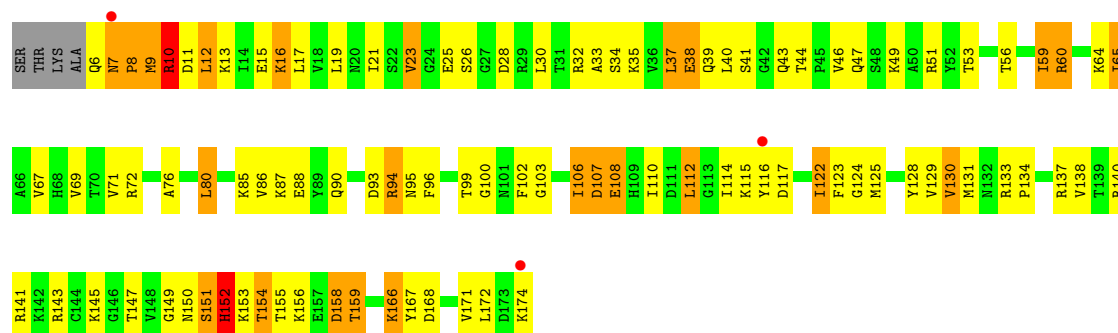
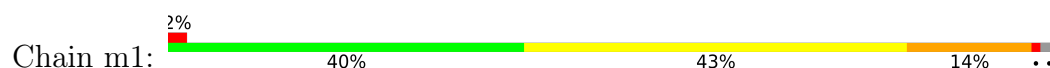


• Molecule 48: 60S ribosomal protein L11-B

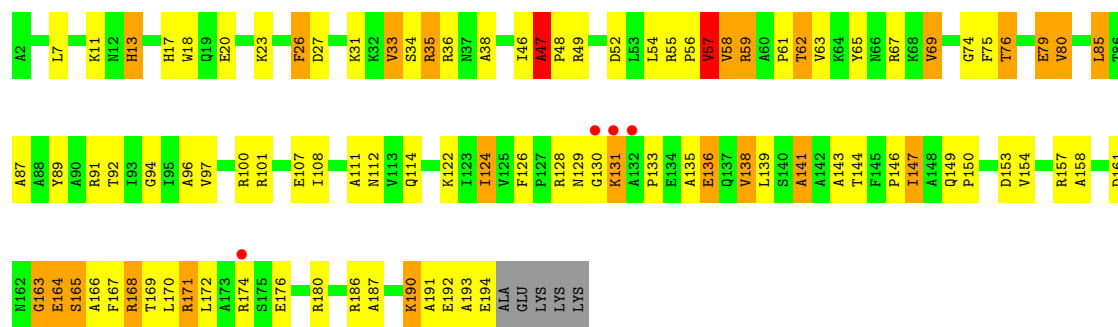




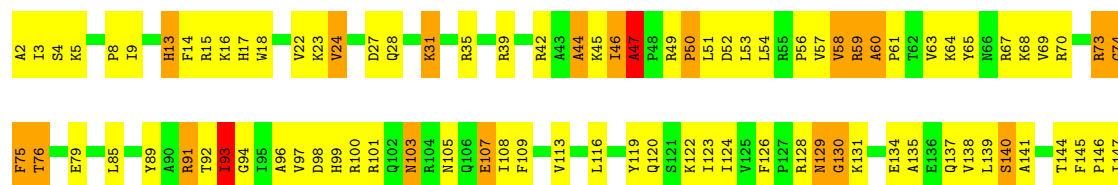
• Molecule 48: 60S ribosomal protein L11-B

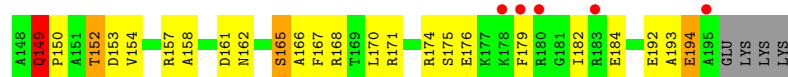


• Molecule 49: 60S ribosomal protein L13-A

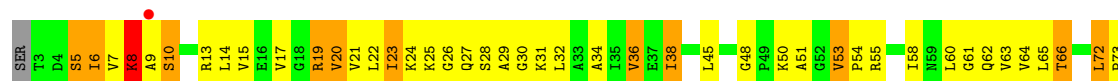


• Molecule 49: 60S ribosomal protein L13-A

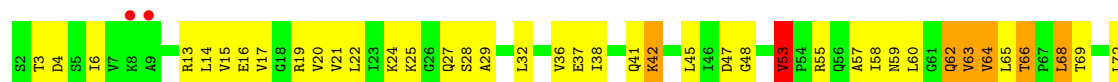
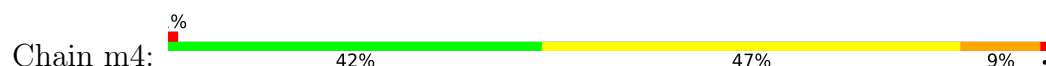




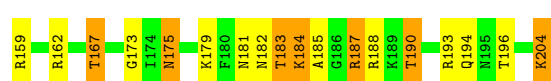
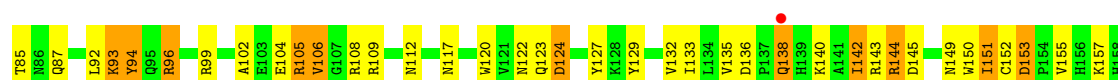
- Molecule 50: 60S ribosomal protein L14-A



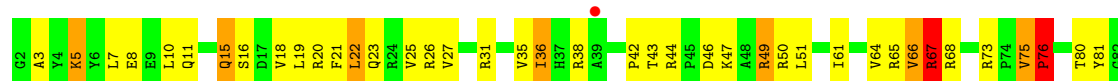
- Molecule 50: 60S ribosomal protein L14-A

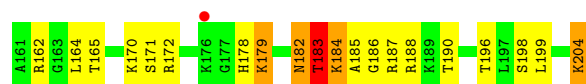


- Molecule 51: 60S ribosomal protein L15-A

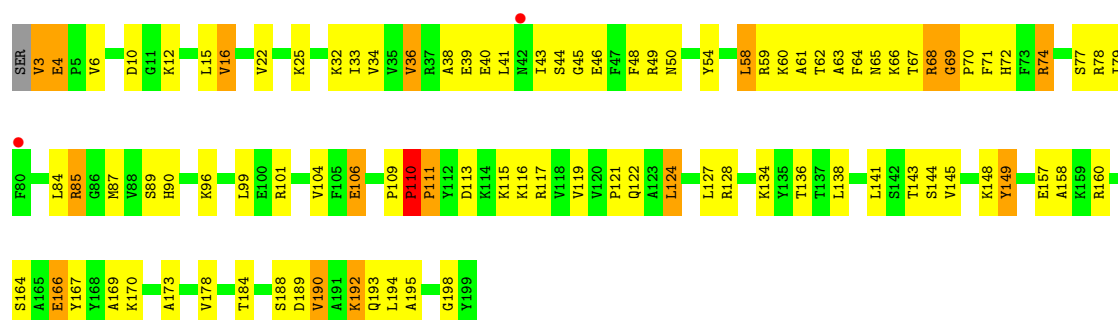


- Molecule 51: 60S ribosomal protein L15-A

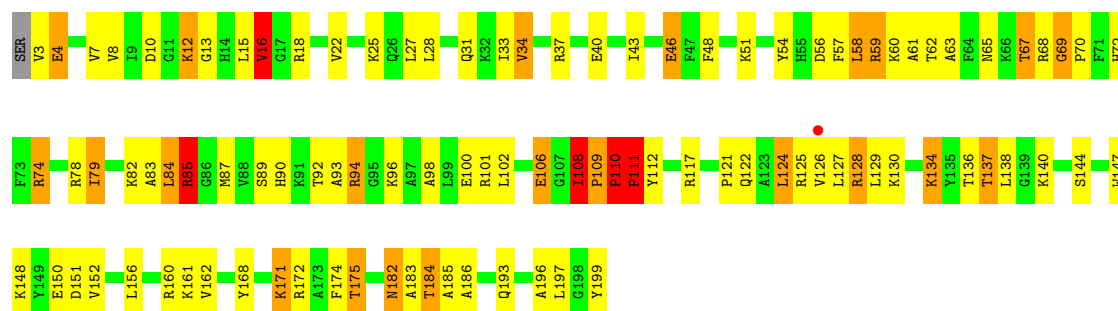




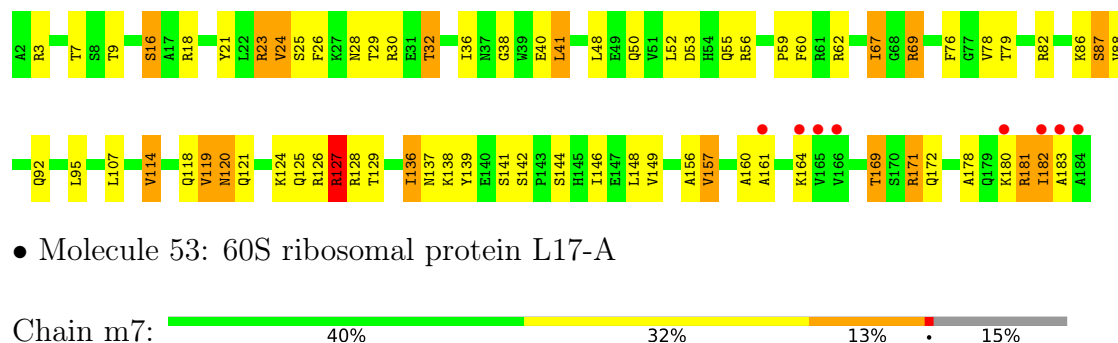
• Molecule 52: 60S ribosomal protein L16-A



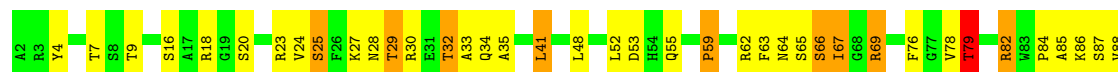
• Molecule 52: 60S ribosomal protein L16-A

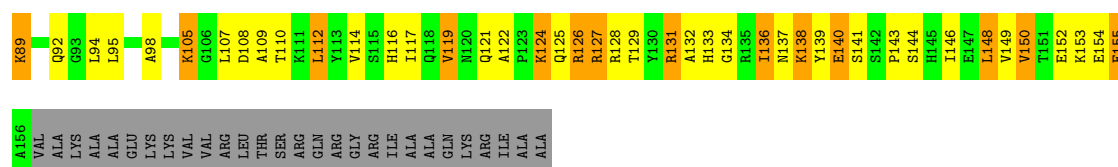


• Molecule 53: 60S ribosomal protein L17-A

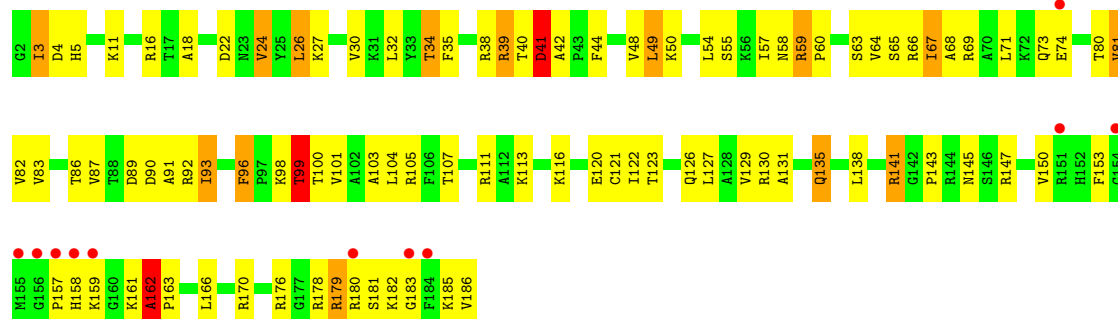


• Molecule 53: 60S ribosomal protein L17-A

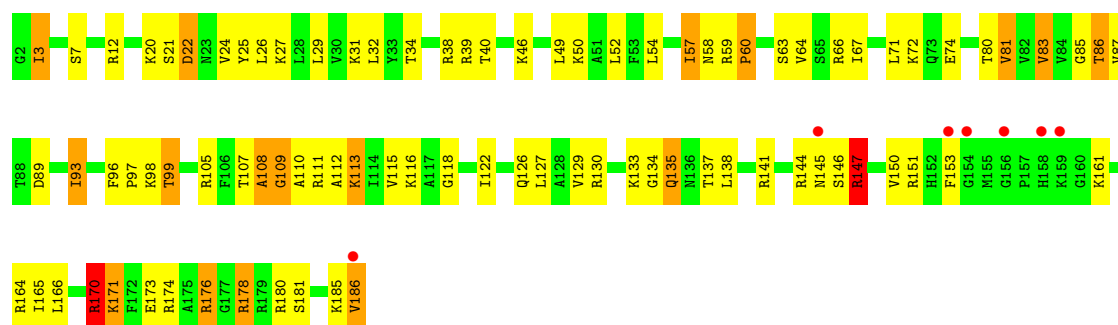




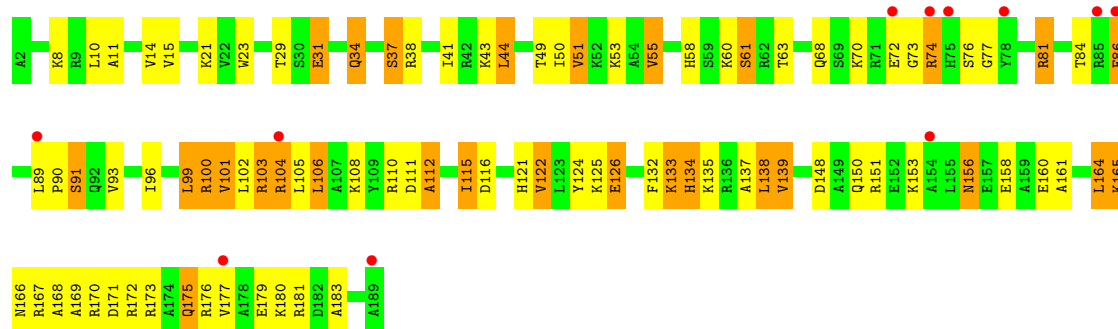
- Molecule 54: 60S ribosomal protein L18-A



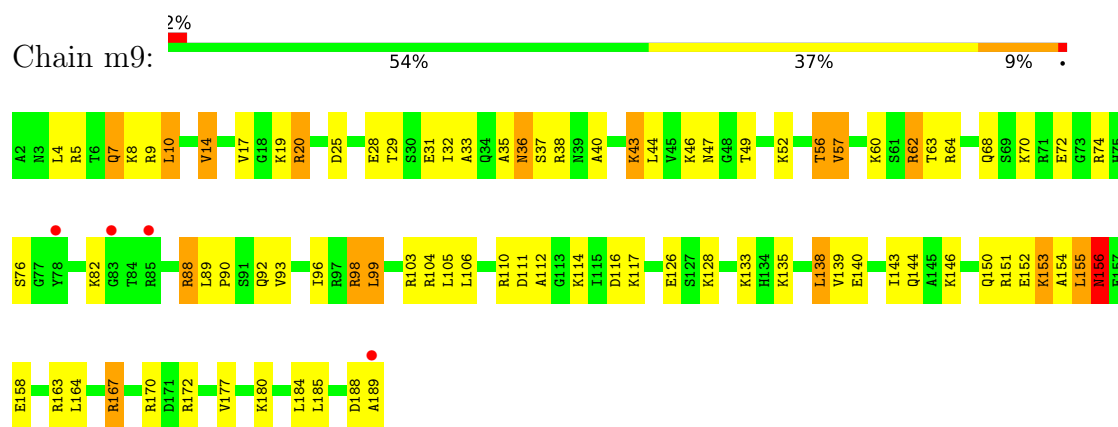
- Molecule 54: 60S ribosomal protein L18-A



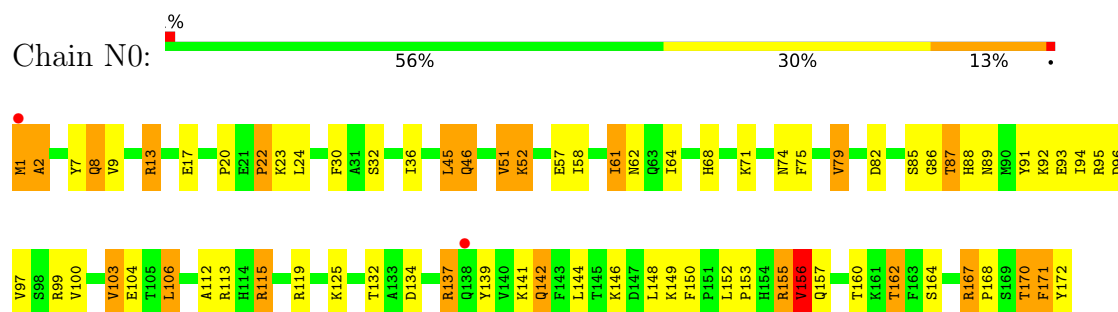
- Molecule 55: 60S ribosomal protein L19-A



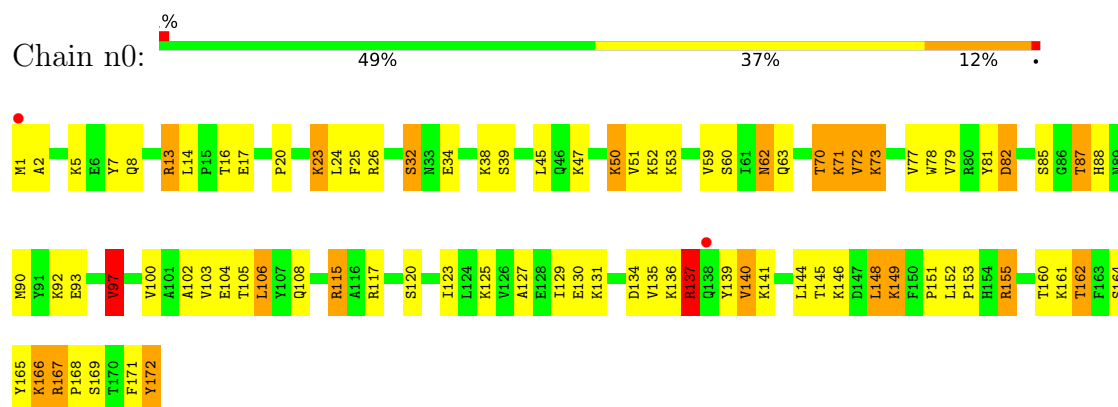
- Molecule 55: 60S ribosomal protein L19-A



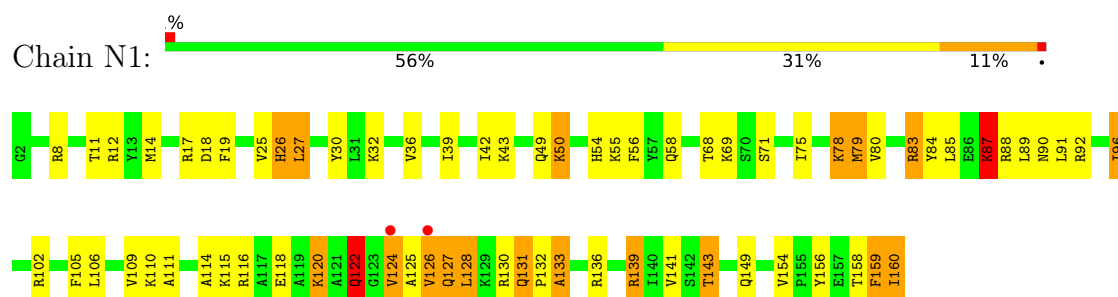
- Molecule 56: 60S ribosomal protein L20-A



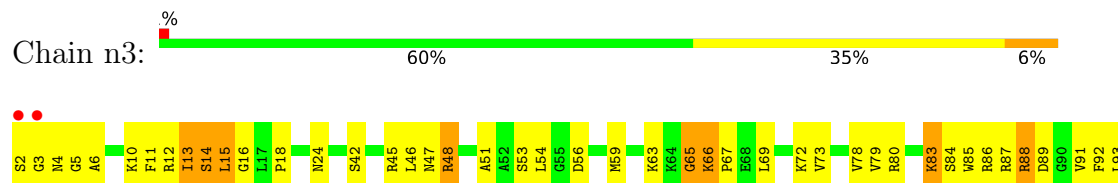
- Molecule 56: 60S ribosomal protein L20-A

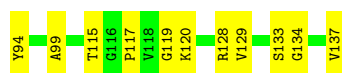


- Molecule 57: 60S ribosomal protein L21-A

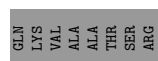
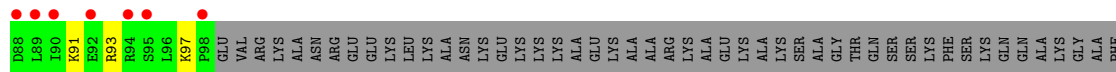


- Molecule 57: 60S ribosomal protein L21-A

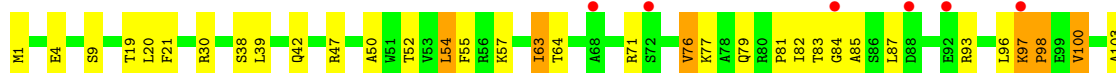




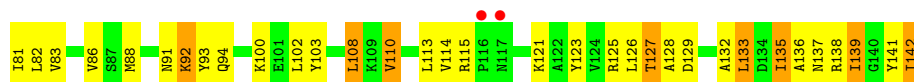
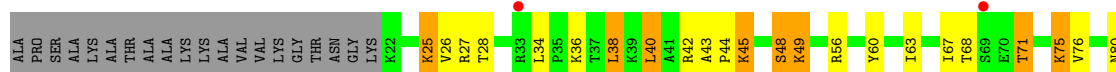
- Molecule 60: 60S ribosomal protein L24-A



- Molecule 60: 60S ribosomal protein L24-A



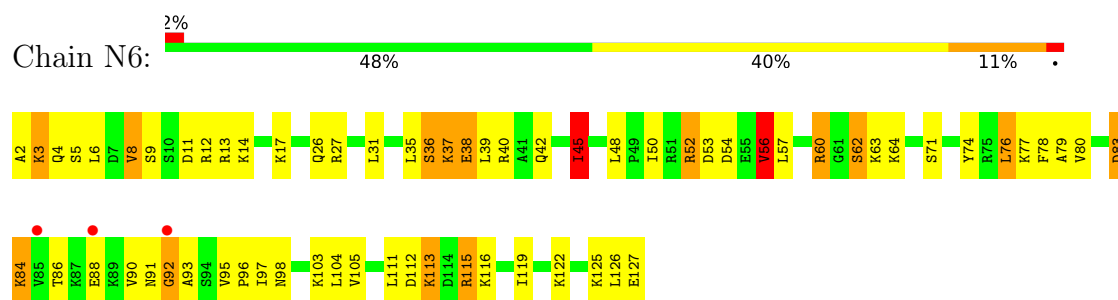
- Molecule 61: 60S ribosomal protein L25



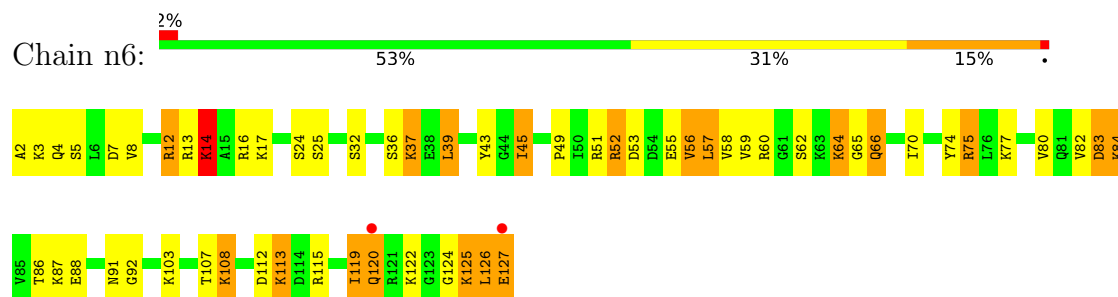
- Molecule 61: 60S ribosomal protein L25



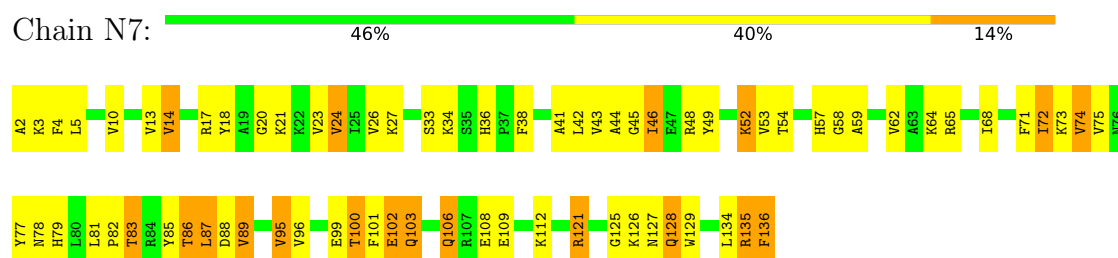
- Molecule 62: 60S ribosomal protein L26-A



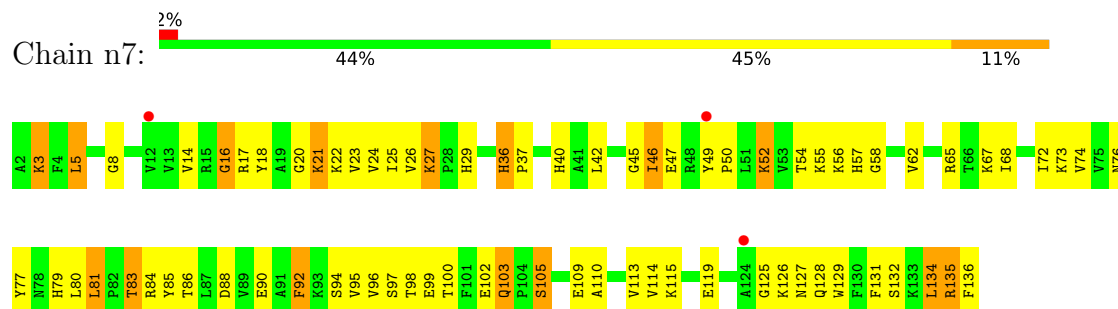
• Molecule 62: 60S ribosomal protein L26-A



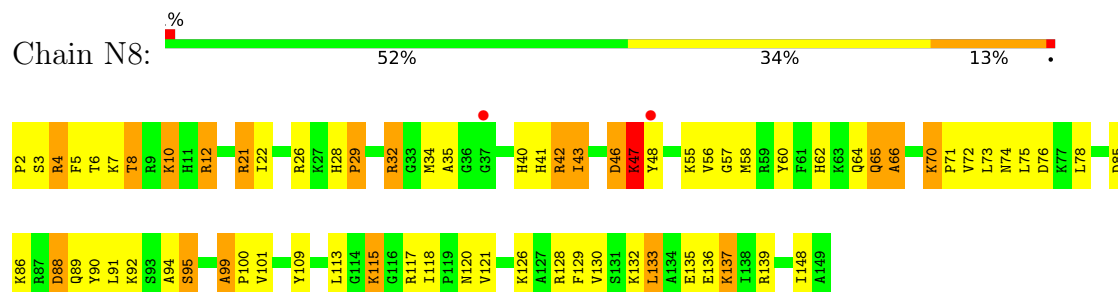
• Molecule 63: 60S ribosomal protein L27-A



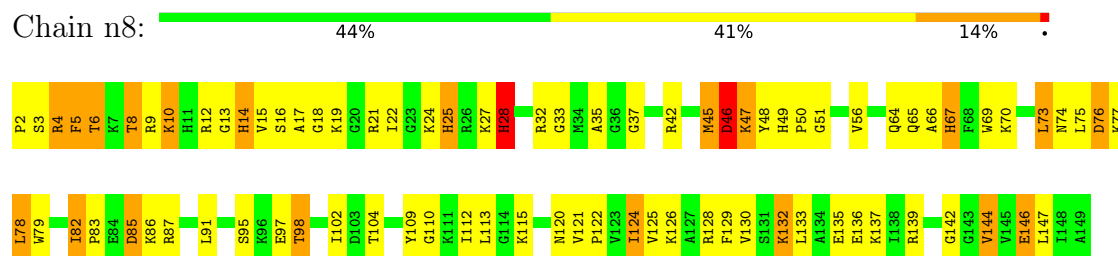
• Molecule 63: 60S ribosomal protein L27-A



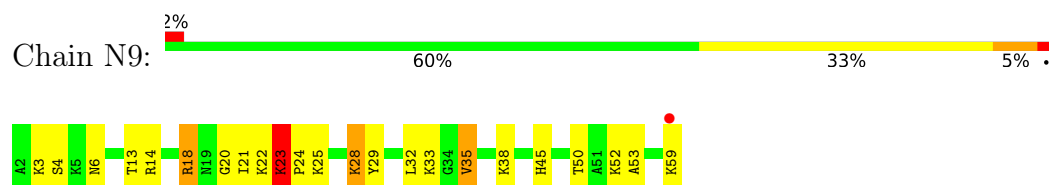
• Molecule 64: 60S ribosomal protein L28



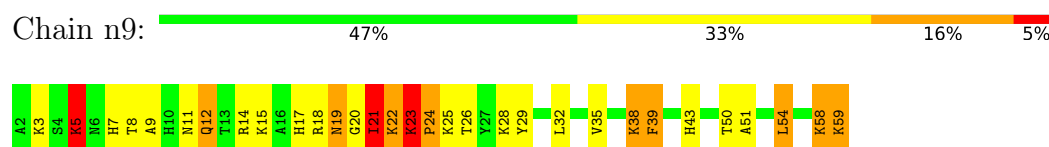
- Molecule 64: 60S ribosomal protein L28



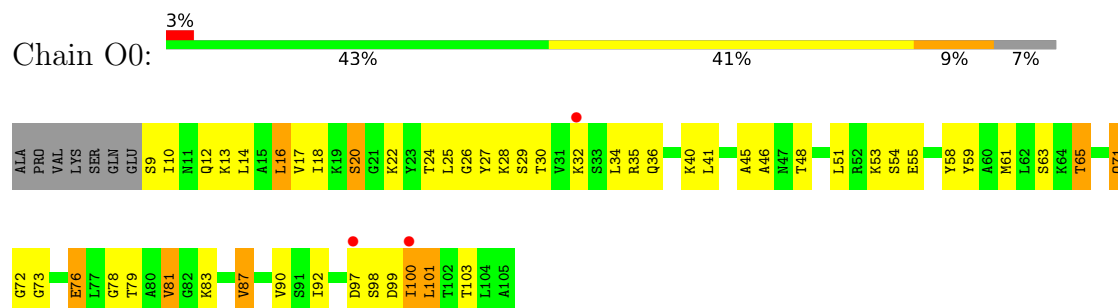
- Molecule 65: 60S ribosomal protein L29



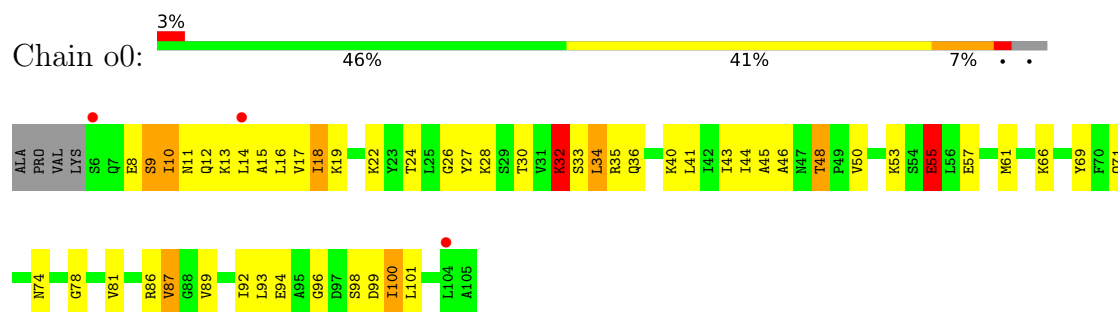
- Molecule 65: 60S ribosomal protein L29



- Molecule 66: 60S ribosomal protein L30

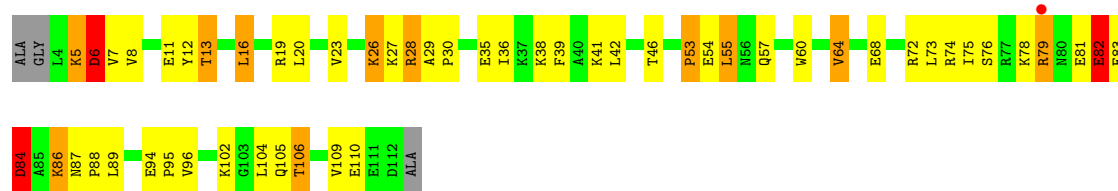


- Molecule 66: 60S ribosomal protein L30



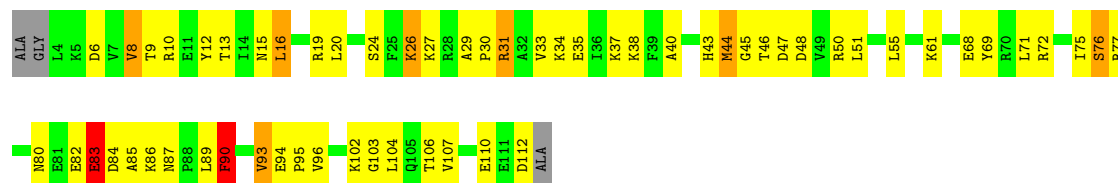
- Molecule 67: 60S ribosomal protein L31-A





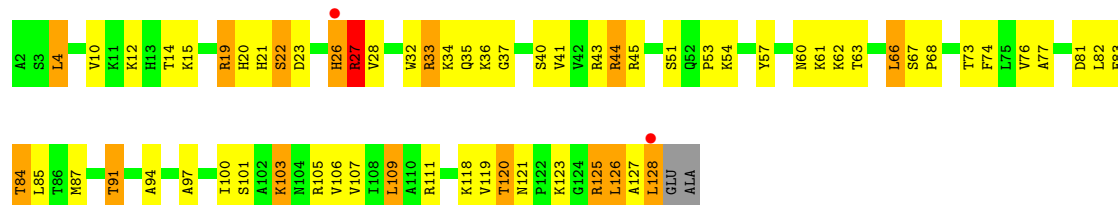
- Molecule 67: 60S ribosomal protein L31-A

Chain o1: 45% 45% 6% ..



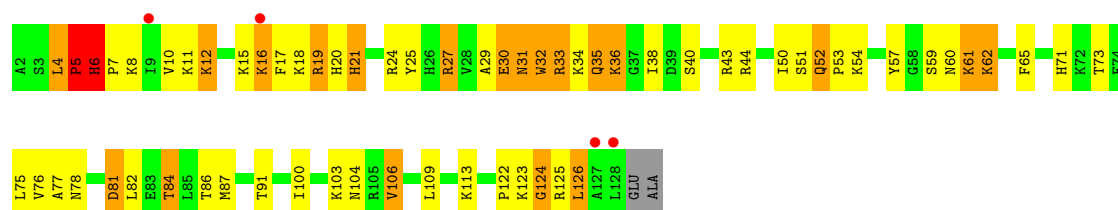
- Molecule 68: 60S ribosomal protein L32

Chain O2: 2% 48% 38% 12% ..



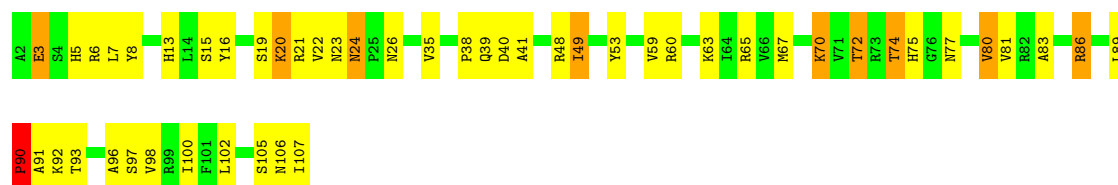
- Molecule 68: 60S ribosomal protein L32

Chain o2: 3% 49% 33% 16% ..

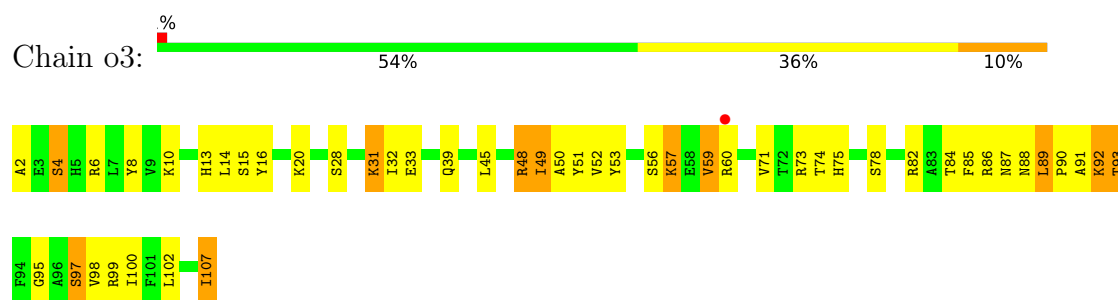


- Molecule 69: 60S ribosomal protein L33-A

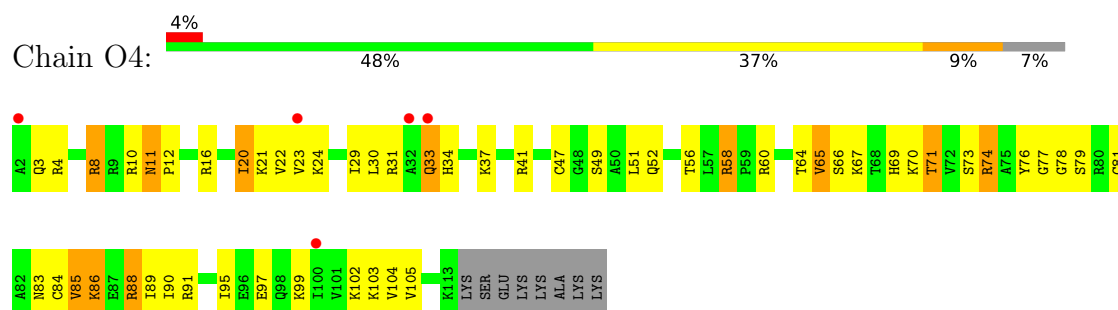
Chain O3: 53% 38% 8% ..



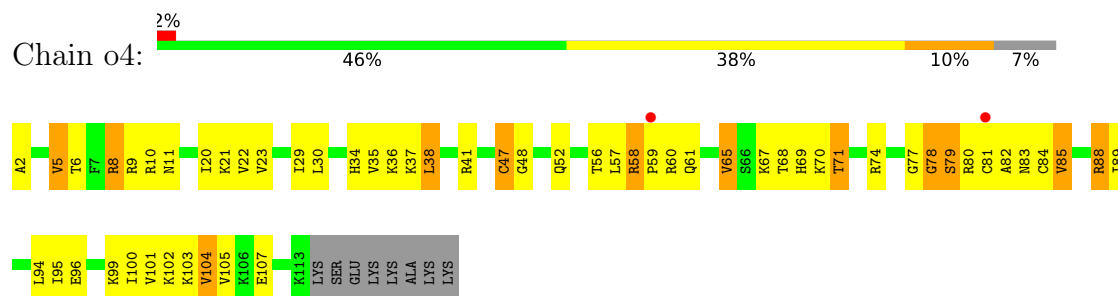
- Molecule 69: 60S ribosomal protein L33-A



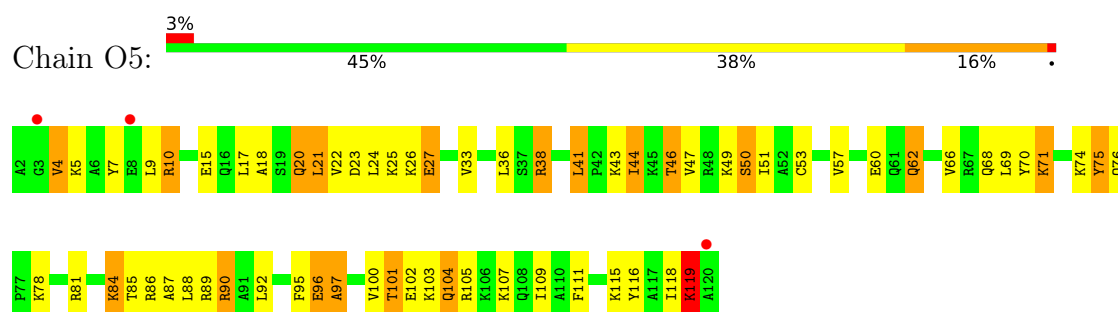
- Molecule 70: 60S ribosomal protein L34-A



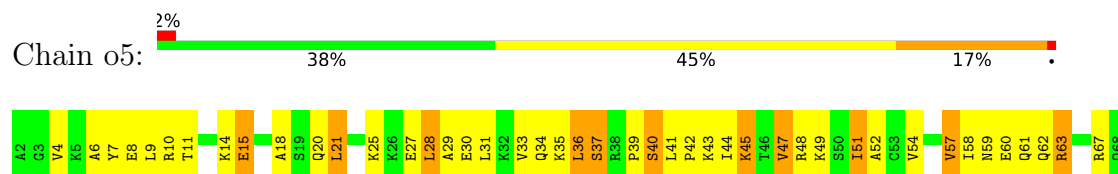
- Molecule 70: 60S ribosomal protein L34-A

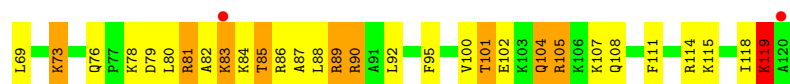


- Molecule 71: 60S ribosomal protein L35-A

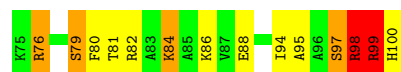
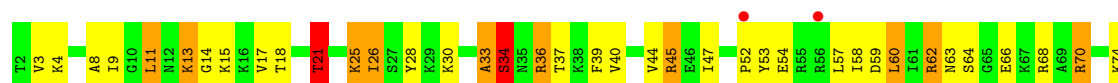


- Molecule 71: 60S ribosomal protein L35-A

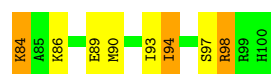




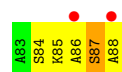
• Molecule 72: 60S ribosomal protein L36-A



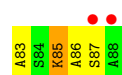
• Molecule 72: 60S ribosomal protein L36-A



• Molecule 73: 60S ribosomal protein L37-A

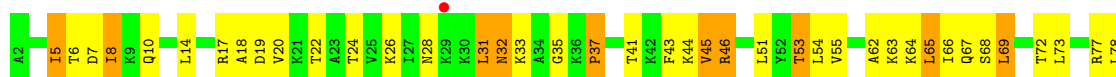


• Molecule 73: 60S ribosomal protein L37-A

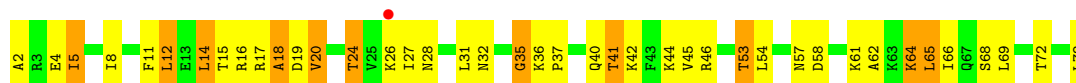


• Molecule 74: 60S ribosomal protein L38

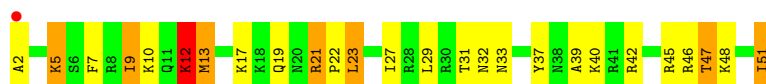




- Molecule 74: 60S ribosomal protein L38



- Molecule 75: 60S ribosomal protein L39



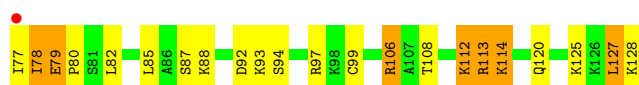
- Molecule 75: 60S ribosomal protein L39



- Molecule 76: Ubiquitin-60S ribosomal protein L40



- Molecule 76: Ubiquitin-60S ribosomal protein L40



- Molecule 77: 60S ribosomal protein L41-A

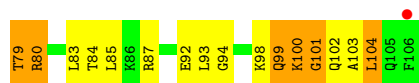
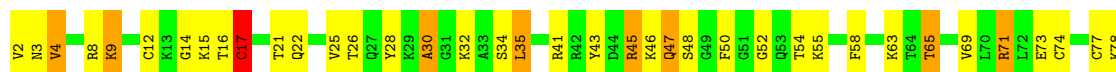


- Molecule 77: 60S ribosomal protein L41-A





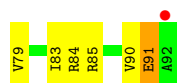
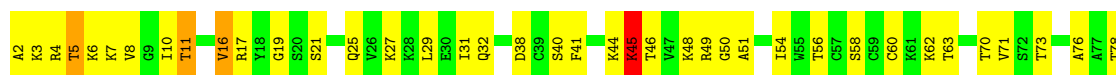
- Molecule 78: 60S ribosomal protein L42-A



- Molecule 78: 60S ribosomal protein L42-A



- Molecule 79: 60S ribosomal protein L43-A

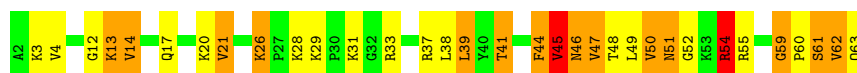


- Molecule 79: 60S ribosomal protein L43-A

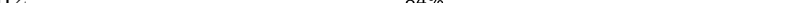


- Molecule 80: 40S ribosomal protein S30-A





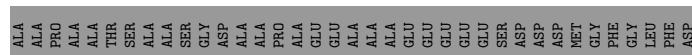
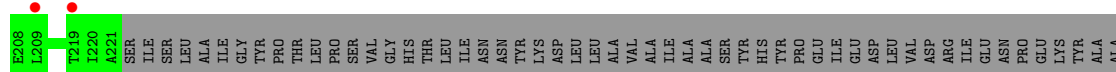
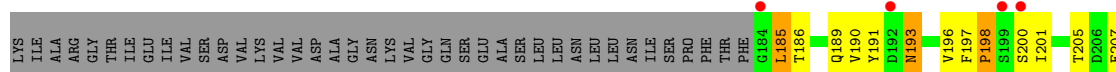
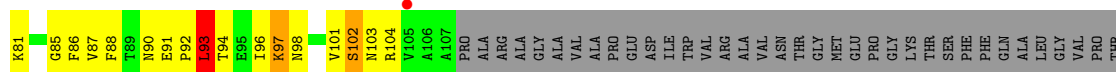
- Molecule 81: unknown protein chain m2

Chain m2:  84% 9% 6%

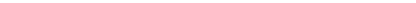


- Molecule 82: 60S acidic ribosomal protein P0

Chain p0: 



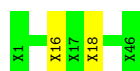
- Molecule 83: unknown protein chain p1

Chain p1:  83% 17%



- Molecule 84: unknown protein chain p2

Chain p2: 96% .



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	436.92Å 288.52Å 305.75Å 90.00° 99.04° 90.00°	Depositor
Resolution (Å)	267.96 – 3.20 267.96 – 3.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (267.96-3.20) 99.9 (267.96-3.20)	Depositor EDS
R_{merge}	0.39	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.42 (at 3.19Å)	Xtriage
Refinement program	PHENIX (phenix.refine: dev_1702)	Depositor
R, R_{free}	0.193 , 0.245 0.195 , 0.245	Depositor DCC
R_{free} test set	24529 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	81.5	Xtriage
Anisotropy	0.087	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 169.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	411223	wwPDB-VP
Average B, all atoms (Å ²)	75.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.56% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 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: PCY, MG, OHX, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	2	0.43	0/41698	0.63	4/64972 (0.0%)
1	6	0.51	0/42765	0.68	8/66634 (0.0%)
2	S0	0.64	0/1617	1.12	11/2215 (0.5%)
2	s0	0.70	0/1623	1.13	6/2222 (0.3%)
3	S1	0.53	0/1735	0.95	7/2335 (0.3%)
3	s1	0.63	0/1748	1.03	10/2352 (0.4%)
4	S2	0.69	0/1665	1.10	11/2263 (0.5%)
4	s2	0.82	0/1665	1.23	12/2263 (0.5%)
5	S3	0.63	0/1759	1.05	4/2368 (0.2%)
5	s3	0.60	0/1759	1.02	9/2368 (0.4%)
6	S4	0.64	0/2109	1.09	15/2839 (0.5%)
6	s4	0.75	0/2109	1.11	7/2839 (0.2%)
7	S5	0.54	0/1629	1.04	4/2202 (0.2%)
7	s5	0.64	0/1629	1.06	6/2202 (0.3%)
8	S6	0.61	0/1823	1.04	9/2439 (0.4%)
8	s6	0.75	0/1779	1.07	7/2379 (0.3%)
9	S7	0.58	0/1506	1.05	5/2028 (0.2%)
9	s7	0.65	0/1516	1.13	10/2043 (0.5%)
10	S8	0.75	0/1514	1.09	5/2021 (0.2%)
10	s8	0.85	1/1514 (0.1%)	1.15	6/2021 (0.3%)
11	S9	0.65	0/1519	1.05	4/2035 (0.2%)
11	s9	0.75	0/1519	1.22	15/2035 (0.7%)
12	C0	0.55	0/790	1.02	3/1069 (0.3%)
12	c0	0.52	0/777	0.94	3/1049 (0.3%)
13	C1	0.81	1/1240 (0.1%)	1.16	8/1675 (0.5%)
13	c1	0.86	1/1194 (0.1%)	1.20	6/1610 (0.4%)
14	C2	0.54	0/900	0.94	0/1224
14	c2	0.43	0/900	0.91	1/1224 (0.1%)
15	C3	0.68	0/1215	1.03	4/1638 (0.2%)
15	c3	0.77	0/1215	1.17	5/1638 (0.3%)
16	C4	0.65	0/901	1.05	3/1217 (0.2%)
16	c4	0.71	0/960	1.15	7/1290 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	C5	0.62	0/998	1.00	0/1341
17	c5	0.64	0/1060	1.13	9/1426 (0.6%)
18	C6	0.60	0/1125	1.04	6/1510 (0.4%)
18	c6	0.68	0/1131	1.10	6/1518 (0.4%)
19	C7	0.62	0/935	1.04	6/1254 (0.5%)
19	c7	0.66	0/914	1.09	1/1224 (0.1%)
20	C8	0.61	0/1211	1.09	7/1628 (0.4%)
20	c8	0.66	0/1211	1.02	0/1628
21	C9	0.56	0/1130	0.96	2/1517 (0.1%)
21	c9	0.66	0/1130	1.02	1/1517 (0.1%)
22	D0	0.62	0/865	1.04	3/1169 (0.3%)
22	d0	0.67	0/892	1.06	6/1205 (0.5%)
23	D1	0.63	0/693	1.00	3/935 (0.3%)
23	d1	0.74	0/693	1.00	0/935
24	D2	0.70	0/1038	1.12	4/1395 (0.3%)
24	d2	0.84	0/1038	1.11	6/1395 (0.4%)
25	D3	0.81	0/1139	1.19	8/1518 (0.5%)
25	d3	0.90	2/1139 (0.2%)	1.19	4/1518 (0.3%)
26	D4	0.58	0/1087	0.99	1/1449 (0.1%)
26	d4	0.73	0/1087	1.13	4/1449 (0.3%)
27	D5	0.57	0/571	1.05	5/768 (0.7%)
27	d5	0.65	0/566	1.09	4/761 (0.5%)
28	D6	0.70	0/782	1.13	4/1047 (0.4%)
28	d6	0.75	0/782	1.10	3/1047 (0.3%)
29	D7	0.57	0/620	1.12	4/838 (0.5%)
29	d7	0.63	0/620	1.17	4/838 (0.5%)
30	D8	0.49	0/499	0.94	0/670
30	d8	0.59	0/499	1.08	3/670 (0.4%)
31	D9	0.68	0/452	1.05	1/600 (0.2%)
31	d9	0.66	0/452	1.04	4/600 (0.7%)
32	E0	0.61	0/483	1.04	1/643 (0.2%)
33	E1	0.64	0/577	1.10	3/770 (0.4%)
33	e1	0.59	0/619	1.03	3/822 (0.4%)
34	SR	0.59	0/2494	0.98	8/3393 (0.2%)
34	sR	0.54	0/2495	0.91	1/3395 (0.0%)
35	SM	0.75	0/1113	1.18	4/1502 (0.3%)
35	sM	0.67	0/682	1.34	10/921 (1.1%)
36	1	0.64	0/75394	0.78	17/117545 (0.0%)
36	5	0.66	0/75414	0.78	8/117575 (0.0%)
37	3	0.54	0/2883	0.69	1/4491 (0.0%)
37	7	0.64	0/2883	0.79	0/4491
38	4	0.63	0/3746	0.75	0/5832
38	8	0.56	0/3746	0.69	0/5832

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	L2	1.00	3/1948 (0.2%)	1.28	15/2617 (0.6%)
39	l2	0.98	1/1946 (0.1%)	1.30	18/2614 (0.7%)
40	L3	0.93	2/3146 (0.1%)	1.21	12/4228 (0.3%)
40	l3	1.09	4/3146 (0.1%)	1.30	23/4228 (0.5%)
41	L4	1.04	3/2800 (0.1%)	1.35	17/3790 (0.4%)
41	l4	0.96	2/2800 (0.1%)	1.28	15/3790 (0.4%)
42	L5	0.72	0/2425	1.01	3/3271 (0.1%)
42	l5	0.89	0/2408	1.16	10/3248 (0.3%)
43	L6	0.98	0/1260	1.28	4/1694 (0.2%)
43	l6	0.94	0/1269	1.18	5/1705 (0.3%)
44	L7	1.02	1/1821 (0.1%)	1.23	7/2451 (0.3%)
44	l7	1.05	0/1828	1.30	14/2461 (0.6%)
45	L8	0.73	0/1836	1.06	7/2481 (0.3%)
45	l8	0.70	0/1795	1.12	10/2429 (0.4%)
46	L9	0.80	0/1539	1.10	0/2073
46	l9	1.04	1/1539 (0.1%)	1.21	9/2073 (0.4%)
47	M0	0.94	2/1741 (0.1%)	1.15	10/2335 (0.4%)
47	m0	0.99	0/1758	1.30	12/2358 (0.5%)
48	M1	0.64	0/1374	1.06	5/1842 (0.3%)
48	m1	0.85	0/1374	1.14	5/1842 (0.3%)
49	M3	1.00	3/1568 (0.2%)	1.25	6/2106 (0.3%)
49	m3	0.94	1/1573 (0.1%)	1.26	8/2113 (0.4%)
50	M4	0.98	0/1068	1.20	2/1438 (0.1%)
50	m4	1.10	2/1074 (0.2%)	1.28	5/1446 (0.3%)
51	M5	0.95	1/1757 (0.1%)	1.17	7/2354 (0.3%)
51	m5	0.83	0/1757	1.23	9/2354 (0.4%)
52	M6	1.03	0/1585	1.26	10/2128 (0.5%)
52	m6	1.22	1/1585 (0.1%)	1.40	13/2128 (0.6%)
53	M7	1.02	0/1443	1.16	3/1944 (0.2%)
53	m7	1.11	2/1250 (0.2%)	1.20	3/1683 (0.2%)
54	M8	1.03	2/1465 (0.1%)	1.37	15/1965 (0.8%)
54	m8	0.97	0/1465	1.26	9/1965 (0.5%)
55	M9	0.73	0/1538	1.08	3/2050 (0.1%)
55	m9	0.82	0/1538	1.01	1/2050 (0.0%)
56	N0	0.95	0/1481	1.23	6/1990 (0.3%)
56	n0	1.15	2/1481 (0.1%)	1.31	10/1990 (0.5%)
57	N1	0.96	0/1300	1.20	2/1743 (0.1%)
57	n1	1.00	0/1300	1.20	1/1743 (0.1%)
58	N2	0.55	0/812	0.95	3/1099 (0.3%)
58	n2	0.60	0/794	1.10	5/1076 (0.5%)
59	N3	0.93	0/1018	1.20	7/1369 (0.5%)
59	n3	1.13	0/1018	1.34	6/1369 (0.4%)
60	N4	0.76	0/712	1.25	3/958 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	n4	0.95	0/1052	1.19	4/1398 (0.3%)
61	N5	0.82	0/979	1.19	4/1321 (0.3%)
61	n5	0.84	0/974	1.19	8/1314 (0.6%)
62	N6	0.91	0/1004	1.21	2/1341 (0.1%)
62	n6	0.87	0/1004	1.15	2/1341 (0.1%)
63	N7	0.67	0/1118	1.09	2/1497 (0.1%)
63	n7	0.62	0/1118	1.02	4/1497 (0.3%)
64	N8	1.06	1/1204 (0.1%)	1.33	9/1612 (0.6%)
64	n8	0.96	0/1204	1.34	12/1612 (0.7%)
65	N9	0.94	0/473	1.37	2/629 (0.3%)
65	n9	1.00	0/473	1.49	5/629 (0.8%)
66	O0	0.61	0/751	1.01	1/1008 (0.1%)
66	o0	0.64	0/775	0.99	2/1040 (0.2%)
67	O1	0.83	1/890 (0.1%)	1.16	4/1196 (0.3%)
67	o1	0.96	0/897	1.25	4/1205 (0.3%)
68	O2	1.11	1/1041 (0.1%)	1.31	4/1394 (0.3%)
68	o2	1.01	1/1041 (0.1%)	1.29	6/1394 (0.4%)
69	O3	1.06	0/868	1.27	7/1168 (0.6%)
69	o3	1.12	2/868 (0.2%)	1.33	7/1168 (0.6%)
70	O4	0.87	0/890	1.25	4/1189 (0.3%)
70	o4	0.80	0/890	1.20	6/1189 (0.5%)
71	O5	0.89	0/978	1.17	3/1301 (0.2%)
71	o5	0.76	0/974	1.04	1/1297 (0.1%)
72	O6	0.82	0/778	1.16	3/1034 (0.3%)
72	o6	0.74	0/777	1.16	4/1033 (0.4%)
73	O7	1.03	0/696	1.44	5/923 (0.5%)
73	o7	0.91	0/696	1.16	2/923 (0.2%)
74	O8	0.63	0/618	1.07	2/826 (0.2%)
74	o8	0.62	0/614	0.99	0/822
75	O9	1.02	0/443	1.21	2/588 (0.3%)
75	o9	0.86	0/443	1.19	2/588 (0.3%)
76	Q0	0.78	0/423	1.07	2/562 (0.4%)
76	q0	1.11	0/423	1.30	3/562 (0.5%)
77	Q1	0.79	0/234	0.99	0/300
77	q1	0.92	0/234	1.07	1/300 (0.3%)
78	Q2	0.95	1/860 (0.1%)	1.20	6/1136 (0.5%)
78	q2	0.86	2/860 (0.2%)	1.05	2/1136 (0.2%)
79	Q3	0.93	0/701	1.17	4/934 (0.4%)
79	q3	0.86	0/701	1.19	2/934 (0.2%)
80	e0	0.74	0/499	1.24	4/665 (0.6%)
82	p0	0.58	0/1091	0.99	2/1472 (0.1%)
All	All	0.70	47/430072 (0.0%)	0.92	867/631360 (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
7	s5	0	2
9	S7	0	1
9	s7	0	2
10	S8	0	2
16	C4	0	2
16	c4	0	1
17	c5	0	1
18	c6	0	1
19	C7	0	2
19	c7	0	2
22	d0	0	1
25	d3	0	1
26	d4	0	1
27	D5	0	2
27	d5	0	1
28	D6	0	1
31	D9	0	1
34	SR	0	1
39	L2	0	1
39	l2	0	2
43	L6	0	1
44	l7	0	2
47	m0	0	1
51	m5	0	1
52	M6	0	1
52	m6	0	1
56	N0	0	1
64	n8	0	2
65	N9	0	1
65	n9	0	1
67	O1	0	1
67	o1	0	1
68	o2	0	2
73	o7	0	1
81	m2	0	1
All	All	0	46

All (47) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	M0	127	ALA	CA-CB	-9.53	1.38	1.53
54	M8	18	ALA	CA-CB	-7.22	1.45	1.54
78	Q2	17	CYS	CB-SG	7.03	2.04	1.81
39	L2	192	LYS	CA-C	6.68	1.56	1.52
40	l3	295	ALA	CA-CB	-6.43	1.43	1.53
49	M3	57	VAL	CA-C	-6.38	1.45	1.52
39	L2	14	SER	CA-C	-6.36	1.48	1.52
50	m4	111	ALA	CA-CB	-6.34	1.44	1.53
13	c1	107	VAL	CA-CB	-6.27	1.49	1.54
78	q2	17	CYS	CB-SG	6.27	2.02	1.81
13	C1	70	ILE	CA-C	6.22	1.58	1.52
64	N8	65	GLN	CA-C	-6.22	1.44	1.52
69	o3	87	ASN	CA-C	6.09	1.55	1.52
54	M8	82	VAL	CA-CB	-6.06	1.47	1.54
41	L4	34	ILE	CA-CB	-5.98	1.47	1.54
40	l3	254	ALA	CA-CB	-5.96	1.44	1.53
39	L2	5	ILE	CA-CB	-5.94	1.46	1.54
51	M5	75	VAL	CA-CB	5.93	1.61	1.54
49	M3	38	ALA	CA-CB	-5.90	1.44	1.53
56	n0	127	ALA	CA-CB	-5.74	1.43	1.53
39	l2	251	LYS	CA-C	5.69	1.55	1.52
68	o2	29	ALA	CA-CB	-5.60	1.44	1.53
67	O1	106	THR	CA-CB	5.59	1.61	1.53
10	s8	35	ASN	CA-C	-5.55	1.45	1.53
44	L7	62	ILE	CA-CB	-5.53	1.47	1.54
46	l9	4	ILE	CA-CB	-5.45	1.48	1.54
40	L3	258	ALA	CA-CB	-5.43	1.46	1.52
40	l3	8	ALA	CA-CB	-5.30	1.46	1.53
68	O2	121	ASN	CA-C	-5.29	1.46	1.52
41	L4	52	VAL	CA-CB	-5.26	1.49	1.54
78	q2	68	VAL	CA-CB	-5.25	1.47	1.54
47	M0	165	ILE	CA-CB	5.22	1.60	1.54
53	m7	66	SER	C-O	5.18	1.30	1.24
52	m6	137	THR	CA-CB	-5.17	1.46	1.53
49	M3	96	ALA	CA-CB	-5.16	1.46	1.53
49	m3	24	VAL	CA-CB	-5.15	1.47	1.54
41	L4	328	ASN	CA-C	5.12	1.59	1.52
41	l4	101	ALA	C-O	5.10	1.26	1.23
53	m7	146	ILE	CA-CB	-5.09	1.48	1.54
25	d3	87	VAL	CA-C	-5.08	1.48	1.53
56	n0	123	ILE	CA-C	5.07	1.58	1.53
50	m4	57	ALA	CA-CB	-5.06	1.46	1.53
25	d3	49	ALA	CA-CB	-5.06	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	l3	51	ALA	CA-CB	-5.04	1.45	1.53
69	o3	50	ALA	CA-CB	-5.04	1.44	1.53
41	l4	72	ALA	CA-CB	-5.04	1.45	1.53
40	L3	312	VAL	CA-CB	-5.03	1.49	1.54

All (867) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	m5	75	VAL	CA-C-N	14.78	138.31	119.84
51	m5	75	VAL	C-N-CA	14.78	138.31	119.84
65	n9	23	LYS	CA-C-N	-13.68	102.74	119.84
65	n9	23	LYS	C-N-CA	-13.68	102.74	119.84
60	N4	80	ARG	CA-C-N	13.67	136.93	119.84
60	N4	80	ARG	C-N-CA	13.67	136.93	119.84
65	N9	23	LYS	CA-C-N	-13.46	103.01	119.84
65	N9	23	LYS	C-N-CA	-13.46	103.01	119.84
35	sM	38	PRO	CA-C-N	13.38	134.16	120.38
35	sM	38	PRO	C-N-CA	13.38	134.16	120.38
73	O7	5	THR	CA-C-N	-11.90	107.54	119.56
73	O7	5	THR	C-N-CA	-11.90	107.54	119.56
9	s7	131	PHE	CA-C-N	-11.75	108.93	120.21
9	s7	131	PHE	C-N-CA	-11.75	108.93	120.21
15	c3	136	PRO	CA-C-N	11.65	134.40	119.84
15	c3	136	PRO	C-N-CA	11.65	134.40	119.84
54	M8	59	ARG	CA-C-N	-11.44	111.42	119.66
54	M8	59	ARG	C-N-CA	-11.44	111.42	119.66
72	o6	21	THR	CA-C-N	11.14	131.26	119.90
72	o6	21	THR	C-N-CA	11.14	131.26	119.90
5	s3	210	GLU	CA-C-N	11.13	133.75	119.84
5	s3	210	GLU	C-N-CA	11.13	133.75	119.84
41	L4	3	ARG	CA-C-N	10.96	133.54	119.84
41	L4	3	ARG	C-N-CA	10.96	133.54	119.84
43	L6	6	ALA	CA-C-N	10.83	133.38	119.84
43	L6	6	ALA	C-N-CA	10.83	133.38	119.84
45	L8	158	ASP	CA-C-N	-10.52	106.69	119.84
45	L8	158	ASP	C-N-CA	-10.52	106.69	119.84
40	l3	186	GLY	N-CA-C	10.51	123.66	111.36
6	S4	229	GLY	N-CA-C	10.32	123.87	110.45
52	m6	108	ILE	CA-C-N	10.31	131.00	120.38
52	m6	108	ILE	C-N-CA	10.31	131.00	120.38
47	m0	26	VAL	CA-C-N	10.17	130.25	119.78
47	m0	26	VAL	C-N-CA	10.17	130.25	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	d7	27	GLY	CA-C-N	10.15	130.11	119.85
29	d7	27	GLY	C-N-CA	10.15	130.11	119.85
61	N5	43	ALA	CA-C-N	10.15	132.53	119.84
61	N5	43	ALA	C-N-CA	10.15	132.53	119.84
40	l3	328	ILE	CA-C-N	-10.09	110.53	120.52
40	l3	328	ILE	C-N-CA	-10.09	110.53	120.52
54	m8	59	ARG	CA-C-N	-10.07	112.41	119.66
54	m8	59	ARG	C-N-CA	-10.07	112.41	119.66
50	m4	53	VAL	CA-C-N	9.86	130.48	119.83
50	m4	53	VAL	C-N-CA	9.86	130.48	119.83
41	L4	57	GLY	N-CA-C	-9.75	102.08	114.37
44	l7	192	GLY	CA-C-N	9.72	131.99	119.84
44	l7	192	GLY	C-N-CA	9.72	131.99	119.84
29	D7	37	CYS	CA-C-N	9.68	131.94	119.84
29	D7	37	CYS	C-N-CA	9.68	131.94	119.84
47	m0	4	ARG	CA-C-N	9.68	130.28	119.93
47	m0	4	ARG	C-N-CA	9.68	130.28	119.93
11	s9	172	VAL	N-CA-C	-9.48	103.48	112.96
36	5	1307	G	C2'-C3'-O3'	9.42	123.64	109.50
49	m3	47	ALA	CA-C-N	-9.39	110.03	120.45
49	m3	47	ALA	C-N-CA	-9.39	110.03	120.45
52	m6	109	PRO	CA-C-N	9.35	130.01	120.38
52	m6	109	PRO	C-N-CA	9.35	130.01	120.38
25	d3	45	GLY	N-CA-C	-9.08	103.68	114.48
55	M9	160	GLU	N-CA-C	-9.07	103.05	114.56
20	C8	81	ILE	CA-C-N	-8.91	112.65	121.65
20	C8	81	ILE	C-N-CA	-8.91	112.65	121.65
54	M8	60	PRO	O-C-N	8.90	125.33	121.15
70	O4	11	ASN	CA-C-N	8.88	131.06	120.94
70	O4	11	ASN	C-N-CA	8.88	131.06	120.94
80	e0	62	VAL	N-CA-C	-8.86	104.10	112.96
17	c5	124	THR	CA-C-N	8.82	130.87	119.84
17	c5	124	THR	C-N-CA	8.82	130.87	119.84
48	M1	10	ARG	N-CA-C	-8.75	103.13	112.93
56	N0	167	ARG	CA-C-N	-8.71	108.96	119.84
56	N0	167	ARG	C-N-CA	-8.71	108.96	119.84
39	L2	25	GLY	N-CA-C	-8.62	98.72	110.97
40	l3	286	GLY	N-CA-C	8.60	123.23	111.54
9	S7	62	VAL	CA-C-N	8.59	130.58	119.84
9	S7	62	VAL	C-N-CA	8.59	130.58	119.84
4	s2	233	GLN	CA-C-N	-8.55	109.15	119.84
4	s2	233	GLN	C-N-CA	-8.55	109.15	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	s0	3	LEU	CA-C-N	8.41	130.35	119.84
2	s0	3	LEU	C-N-CA	8.41	130.35	119.84
41	l4	260	GLN	N-CA-C	-8.40	102.07	111.82
45	l8	41	GLN	CA-C-N	8.37	128.40	119.78
45	l8	41	GLN	C-N-CA	8.37	128.40	119.78
41	L4	222	VAL	CA-C-N	8.34	130.26	119.84
41	L4	222	VAL	C-N-CA	8.34	130.26	119.84
27	d5	86	GLU	N-CA-C	-8.32	100.16	110.65
61	n5	65	GLN	CA-C-N	-8.17	112.43	120.52
61	n5	65	GLN	C-N-CA	-8.17	112.43	120.52
63	n7	103	GLN	CA-C-N	8.16	130.04	119.84
63	n7	103	GLN	C-N-CA	8.16	130.04	119.84
64	n8	10	LYS	N-CA-C	-8.14	103.49	113.50
35	sM	39	PRO	CA-C-N	-8.11	111.45	119.64
35	sM	39	PRO	C-N-CA	-8.11	111.45	119.64
25	D3	87	VAL	CA-C-N	8.09	127.85	119.76
25	D3	87	VAL	C-N-CA	8.09	127.85	119.76
4	S2	150	GLN	CA-C-N	8.06	128.55	119.93
4	S2	150	GLN	C-N-CA	8.06	128.55	119.93
11	S9	95	TYR	N-CA-C	-8.05	103.25	113.23
35	SM	167	PRO	N-CA-CB	8.01	111.66	103.25
44	L7	98	LYS	CA-C-N	-8.01	111.47	119.56
44	L7	98	LYS	C-N-CA	-8.01	111.47	119.56
17	c5	52	LYS	CA-C-N	-7.99	111.73	121.00
17	c5	52	LYS	C-N-CA	-7.99	111.73	121.00
12	C0	29	GLN	N-CA-C	-7.99	104.14	114.04
51	m5	183	THR	N-CA-C	7.98	127.81	110.80
64	n8	121	VAL	CA-C-N	7.98	128.45	119.83
64	n8	121	VAL	C-N-CA	7.98	128.45	119.83
11	s9	17	ARG	CA-C-N	7.92	127.56	119.56
11	s9	17	ARG	C-N-CA	7.92	127.56	119.56
49	M3	47	ALA	CA-C-N	-7.88	111.71	120.45
49	M3	47	ALA	C-N-CA	-7.88	111.71	120.45
42	l5	272	TYR	N-CA-C	-7.87	101.30	113.02
56	N0	134	ASP	N-CA-C	-7.86	103.20	114.12
41	L4	22	LEU	CA-C-N	7.85	129.66	119.84
41	L4	22	LEU	C-N-CA	7.85	129.66	119.84
69	O3	92	LYS	N-CA-C	-7.80	103.21	112.89
21	C9	6	VAL	N-CA-C	-7.79	105.90	113.53
36	1	637	C	C4'-C3'-O3'	7.76	121.04	109.40
25	d3	41	SER	CA-C-N	7.76	129.54	119.84
25	d3	41	SER	C-N-CA	7.76	129.54	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	n0	140	VAL	N-CA-C	-7.75	105.61	112.12
52	M6	69	GLY	CA-C-N	7.72	127.77	119.90
52	M6	69	GLY	C-N-CA	7.72	127.77	119.90
41	L4	101	ALA	CA-C-N	7.70	129.46	119.84
41	L4	101	ALA	C-N-CA	7.70	129.46	119.84
31	D9	9	SER	N-CA-C	7.69	120.12	107.73
34	SR	162	ALA	N-CA-C	-7.69	103.20	112.58
78	Q2	4	VAL	CA-C-N	7.66	127.67	119.78
78	Q2	4	VAL	C-N-CA	7.66	127.67	119.78
73	o7	5	THR	CA-C-N	-7.66	110.27	119.84
73	o7	5	THR	C-N-CA	-7.66	110.27	119.84
45	L8	125	ALA	N-CA-C	-7.64	103.94	112.57
39	l2	232	GLY	N-CA-C	-7.63	105.41	113.58
59	n3	5	GLY	N-CA-C	-7.60	104.90	113.79
36	1	1307	G	C2'-C3'-O3'	7.58	120.88	109.50
12	C0	88	PRO	N-CA-CB	7.58	111.21	103.25
9	s7	185	ILE	CA-C-N	-7.58	110.37	119.84
9	s7	185	ILE	C-N-CA	-7.58	110.37	119.84
58	n2	21	SER	CA-C-N	-7.57	110.60	118.85
58	n2	21	SER	C-N-CA	-7.57	110.60	118.85
5	s3	215	GLU	CA-C-N	7.52	129.24	119.84
5	s3	215	GLU	C-N-CA	7.52	129.24	119.84
39	l2	209	HIS	CA-C-N	7.49	127.13	119.56
39	l2	209	HIS	C-N-CA	7.49	127.13	119.56
12	c0	97	PRO	N-CA-CB	7.48	111.10	103.25
64	N8	57	GLY	CA-C-N	7.47	131.48	120.87
64	N8	57	GLY	C-N-CA	7.47	131.48	120.87
64	n8	67	HIS	N-CA-C	-7.44	103.19	111.82
49	M3	141	ALA	N-CA-C	-7.44	94.96	110.80
13	c1	112	SER	CA-C-N	7.42	129.12	119.84
13	c1	112	SER	C-N-CA	7.42	129.12	119.84
4	S2	235	LEU	CA-C-N	7.39	129.07	119.84
4	S2	235	LEU	C-N-CA	7.39	129.07	119.84
7	s5	27	THR	CA-C-N	7.35	129.03	119.84
7	s5	27	THR	C-N-CA	7.35	129.03	119.84
52	M6	15	LEU	N-CA-C	7.34	120.05	108.67
24	D2	94	LEU	CA-C-N	7.33	127.68	119.32
24	D2	94	LEU	C-N-CA	7.33	127.68	119.32
25	D3	45	GLY	N-CA-C	-7.33	105.76	114.48
16	c4	95	GLY	CA-C-N	7.32	128.99	119.84
16	c4	95	GLY	C-N-CA	7.32	128.99	119.84
4	s2	150	GLN	CA-C-N	7.31	128.98	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	s2	150	GLN	C-N-CA	7.31	128.98	119.84
2	S0	166	GLY	N-CA-C	7.29	119.82	110.20
6	S4	105	VAL	N-CA-C	-7.26	106.82	113.71
18	C6	40	GLU	CA-C-N	7.24	144.38	127.00
18	C6	40	GLU	C-N-CA	7.24	144.38	127.00
41	l4	191	LYS	N-CA-C	-7.24	104.48	113.38
36	1	1484	U	C2'-C3'-O3'	7.23	120.34	109.50
54	M8	131	ALA	CA-C-N	7.21	127.55	119.32
54	M8	131	ALA	C-N-CA	7.21	127.55	119.32
3	S1	102	GLY	N-CA-C	7.17	118.80	111.56
7	S5	29	ILE	CA-C-N	7.17	127.20	119.89
7	S5	29	ILE	C-N-CA	7.17	127.20	119.89
41	l4	221	ASN	CA-C-N	-7.17	116.45	123.04
41	l4	221	ASN	C-N-CA	-7.17	116.45	123.04
51	M5	93	LYS	N-CA-C	7.16	122.92	114.04
41	L4	191	LYS	N-CA-C	-7.13	104.45	113.01
8	S6	129	VAL	N-CA-C	7.09	114.92	107.76
75	o9	23	LEU	CA-C-N	7.08	128.69	119.84
75	o9	23	LEU	C-N-CA	7.08	128.69	119.84
51	m5	76	PRO	CA-C-N	-7.06	112.66	123.17
51	m5	76	PRO	C-N-CA	-7.06	112.66	123.17
40	l3	80	ASP	CA-C-N	-7.03	114.65	123.15
40	l3	80	ASP	C-N-CA	-7.03	114.65	123.15
47	m0	62	SER	N-CA-C	-7.02	103.63	111.28
7	s5	207	THR	N-CA-C	-7.01	104.54	113.23
64	N8	46	ASP	N-CA-C	-7.01	99.91	110.28
7	s5	44	ASN	N-CA-C	-7.00	103.64	111.28
12	c0	83	PRO	N-CA-CB	6.99	110.59	103.25
76	q0	79	GLU	CA-C-N	6.99	128.58	119.84
76	q0	79	GLU	C-N-CA	6.99	128.58	119.84
16	C4	93	THR	CA-C-N	6.99	127.03	119.90
16	C4	93	THR	C-N-CA	6.99	127.03	119.90
41	L4	65	TRP	N-CA-C	-6.99	103.94	113.30
67	O1	64	VAL	N-CA-C	6.94	117.70	110.62
49	m3	149	GLN	CA-C-N	6.93	128.50	119.84
49	m3	149	GLN	C-N-CA	6.93	128.50	119.84
13	C1	144	ALA	N-CA-C	6.92	115.39	108.75
24	d2	94	LEU	CA-C-N	6.89	126.41	119.24
24	d2	94	LEU	C-N-CA	6.89	126.41	119.24
72	O6	79	SER	N-CA-C	6.88	118.23	108.74
52	M6	109	PRO	CA-C-N	6.88	127.46	120.38
52	M6	109	PRO	C-N-CA	6.88	127.46	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	L2	209	HIS	CA-C-N	-6.83	112.77	119.87
39	L2	209	HIS	C-N-CA	-6.83	112.77	119.87
6	s4	30	ARG	CA-C-N	6.80	128.35	119.84
6	s4	30	ARG	C-N-CA	6.80	128.35	119.84
64	N8	65	GLN	N-CA-C	-6.80	100.91	110.50
22	d0	71	PRO	CA-C-O	-6.79	113.71	122.12
42	l5	37	VAL	N-CA-C	6.76	116.91	110.42
63	n7	27	LYS	CA-C-N	6.75	128.27	119.84
63	n7	27	LYS	C-N-CA	6.75	128.27	119.84
12	c0	88	PRO	N-CA-CB	6.74	110.33	103.25
17	c5	67	ALA	CA-C-N	6.73	128.25	119.84
17	c5	67	ALA	C-N-CA	6.73	128.25	119.84
7	s5	29	ILE	CA-C-N	6.70	126.66	119.76
7	s5	29	ILE	C-N-CA	6.70	126.66	119.76
35	sM	167	PRO	N-CA-CB	6.70	111.10	102.86
11	s9	143	ILE	CA-C-N	6.69	126.95	119.32
11	s9	143	ILE	C-N-CA	6.69	126.95	119.32
40	L3	278	ILE	N-CA-C	6.66	118.75	109.29
69	O3	3	GLU	N-CA-C	-6.63	105.48	113.97
4	S2	181	SER	CA-C-N	6.63	128.12	119.84
4	S2	181	SER	C-N-CA	6.63	128.12	119.84
73	O7	18	LEU	N-CA-C	6.63	119.84	109.96
48	M1	73	GLY	CA-C-N	6.62	126.86	119.32
48	M1	73	GLY	C-N-CA	6.62	126.86	119.32
60	n4	76	VAL	N-CA-C	6.62	123.10	109.34
1	6	272	U	P-O3'-C3'	6.62	130.12	120.20
67	O1	29	ALA	CA-C-N	-6.60	113.00	119.87
67	O1	29	ALA	C-N-CA	-6.60	113.00	119.87
36	5	1307	G	P-O3'-C3'	6.59	130.08	120.20
64	n8	121	VAL	N-CA-C	6.59	114.29	108.63
49	m3	46	ILE	N-CA-C	-6.56	105.26	112.80
1	6	272	U	C2'-C3'-O3'	6.55	119.33	109.50
22	d0	16	GLN	N-CA-C	6.55	116.51	107.73
2	S0	7	PHE	N-CA-C	-6.55	105.60	112.93
79	Q3	91	GLU	N-CA-C	-6.54	107.16	114.62
25	D3	130	VAL	N-CA-C	6.54	122.94	109.34
11	s9	66	ASP	CA-C-N	6.54	128.01	119.84
11	s9	66	ASP	C-N-CA	6.54	128.01	119.84
34	SR	161	LYS	N-CA-C	6.53	124.71	110.80
39	l2	14	SER	CB-CA-C	-6.51	109.07	116.63
2	S0	193	GLN	CA-C-N	6.51	127.98	119.84
2	S0	193	GLN	C-N-CA	6.51	127.98	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	S5	186	ASN	N-CA-C	6.50	118.73	108.79
59	N3	49	LEU	CA-C-N	-6.50	113.29	119.85
59	N3	49	LEU	C-N-CA	-6.50	113.29	119.85
29	d7	37	CYS	CA-C-N	6.50	127.96	119.84
29	d7	37	CYS	C-N-CA	6.50	127.96	119.84
8	S6	172	ALA	CA-C-N	6.48	127.94	119.84
8	S6	172	ALA	C-N-CA	6.48	127.94	119.84
2	s0	201	LEU	N-CA-C	-6.48	105.34	113.18
10	s8	107	THR	CA-C-N	-6.48	111.74	119.84
10	s8	107	THR	C-N-CA	-6.48	111.74	119.84
18	C6	40	GLU	C-N-CD	-6.48	106.35	120.60
56	n0	134	ASP	N-CA-C	-6.47	103.90	113.61
6	s4	151	ASP	CA-C-N	6.45	127.90	119.84
6	s4	151	ASP	C-N-CA	6.45	127.90	119.84
3	s1	22	ASP	CA-C-N	6.42	126.64	119.32
3	s1	22	ASP	C-N-CA	6.42	126.64	119.32
5	S3	219	ALA	CA-C-N	6.41	127.85	119.84
5	S3	219	ALA	C-N-CA	6.41	127.85	119.84
54	M8	96	PHE	CA-C-N	6.41	126.36	120.21
54	M8	96	PHE	C-N-CA	6.41	126.36	120.21
40	l3	278	ILE	N-CA-C	6.40	118.30	109.46
19	C7	85	VAL	CA-C-N	6.39	127.83	119.84
19	C7	85	VAL	C-N-CA	6.39	127.83	119.84
1	2	1761	U	C2'-C3'-O3'	6.39	119.08	109.50
39	L2	122	ASP	N-CA-C	-6.38	105.36	113.02
44	L7	161	VAL	CA-C-N	6.38	126.30	119.85
44	L7	161	VAL	C-N-CA	6.38	126.30	119.85
53	m7	79	THR	N-CA-C	-6.38	106.13	114.04
36	1	637	C	P-O3'-C3'	6.37	129.75	120.20
69	o3	78	SER	N-CA-C	6.37	119.03	110.88
46	l9	164	ILE	N-CA-C	-6.36	106.53	112.83
52	m6	69	GLY	N-CA-C	-6.36	99.36	112.34
27	D5	90	LYS	CA-C-N	6.35	127.78	119.84
27	D5	90	LYS	C-N-CA	6.35	127.78	119.84
62	N6	113	LYS	N-CA-C	-6.35	104.05	110.97
36	1	1484	U	P-O3'-C3'	6.33	129.69	120.20
11	S9	14	THR	CA-C-N	6.32	126.70	119.93
11	S9	14	THR	C-N-CA	6.32	126.70	119.93
64	N8	99	ALA	CA-C-N	6.32	126.35	119.90
64	N8	99	ALA	C-N-CA	6.32	126.35	119.90
36	1	406	G	O4'-C1'-N9	6.32	117.68	108.20
29	D7	54	VAL	N-CA-C	6.32	116.34	107.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	s4	67	GLN	N-CA-C	-6.32	105.44	113.02
39	L2	56	ALA	CA-C-N	-6.31	113.45	120.14
39	L2	56	ALA	C-N-CA	-6.31	113.45	120.14
80	e0	52	GLY	N-CA-C	-6.31	106.83	113.58
69	o3	87	ASN	CA-C-O	-6.30	115.71	119.55
36	1	282	G	C2'-C3'-O3'	6.30	123.15	113.70
70	o4	11	ASN	CA-C-N	6.30	128.51	120.89
70	o4	11	ASN	C-N-CA	6.30	128.51	120.89
6	S4	3	ARG	N-CA-C	6.29	124.20	110.80
41	L4	139	GLY	N-CA-C	-6.29	98.28	113.18
7	S5	204	GLY	N-CA-C	6.28	118.71	111.36
60	n4	110	LYS	N-CA-C	-6.27	106.27	114.04
6	S4	42	LEU	CA-C-N	6.26	126.28	119.90
6	S4	42	LEU	C-N-CA	6.26	126.28	119.90
3	s1	189	ILE	CA-C-N	-6.26	114.45	120.83
3	s1	189	ILE	C-N-CA	-6.26	114.45	120.83
13	C1	138	ASN	N-CA-C	6.25	120.81	112.30
69	O3	16	TYR	N-CA-C	-6.25	102.11	110.55
61	n5	107	VAL	N-CA-C	6.24	116.61	107.37
26	d4	15	ASN	CA-C-N	6.24	125.73	119.24
26	d4	15	ASN	C-N-CA	6.24	125.73	119.24
59	n3	6	ALA	N-CA-C	6.23	119.02	110.24
39	l2	216	HIS	N-CA-C	-6.22	99.61	109.07
12	C0	89	ALA	N-CA-C	-6.22	106.38	112.97
18	c6	63	ILE	N-CA-C	6.21	116.78	108.27
15	C3	22	ALA	CA-C-N	6.21	141.90	127.00
15	C3	22	ALA	C-N-CA	6.21	141.90	127.00
40	L3	306	THR	CA-C-N	6.21	126.22	119.89
40	L3	306	THR	C-N-CA	6.21	126.22	119.89
41	l4	234	ASN	N-CA-C	6.21	118.63	108.52
48	m1	166	LYS	N-CA-C	-6.19	101.30	110.46
4	s2	73	LEU	CA-C-N	6.19	126.15	120.21
4	s2	73	LEU	C-N-CA	6.19	126.15	120.21
41	l4	230	VAL	N-CA-C	6.19	116.36	110.42
47	M0	155	ALA	N-CA-C	-6.18	104.65	111.82
3	S1	205	PHE	CA-C-N	6.18	127.56	119.84
3	S1	205	PHE	C-N-CA	6.18	127.56	119.84
9	s7	62	VAL	CA-C-N	6.18	125.86	119.56
9	s7	62	VAL	C-N-CA	6.18	125.86	119.56
54	m8	99	THR	N-CA-C	6.18	123.95	110.80
67	o1	90	PHE	CB-CA-C	-6.17	98.84	110.51
24	D2	55	ASP	N-CA-C	-6.17	101.80	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	l2	119	LYS	CA-C-N	-6.17	113.42	119.90
39	l2	119	LYS	C-N-CA	-6.17	113.42	119.90
8	s6	85	ARG	CA-C-N	6.17	126.49	119.83
8	s6	85	ARG	C-N-CA	6.17	126.49	119.83
56	N0	68	HIS	CA-C-N	6.16	126.06	119.28
56	N0	68	HIS	C-N-CA	6.16	126.06	119.28
44	l7	214	TRP	N-CA-C	-6.16	105.41	113.17
2	s0	151	SER	CA-C-N	6.16	126.48	119.83
2	s0	151	SER	C-N-CA	6.16	126.48	119.83
52	m6	69	GLY	CA-C-N	6.14	126.50	119.93
52	m6	69	GLY	C-N-CA	6.14	126.50	119.93
52	M6	16	VAL	CB-CA-C	-6.14	101.22	111.29
56	N0	156	VAL	N-CA-C	6.14	116.48	106.72
80	e0	59	GLY	CA-C-N	6.14	127.52	119.84
80	e0	59	GLY	C-N-CA	6.14	127.52	119.84
5	s3	68	GLU	N-CA-C	-6.14	104.51	111.14
53	m7	55	GLN	N-CA-C	-6.13	107.63	114.62
44	l7	147	LEU	N-CA-C	-6.13	103.92	111.40
6	S4	4	GLY	CA-C-N	6.12	127.49	119.84
6	S4	4	GLY	C-N-CA	6.12	127.49	119.84
40	L3	331	ASN	N-CA-C	6.12	119.19	109.65
35	sM	43	ASP	CA-C-N	6.12	125.80	119.56
35	sM	43	ASP	C-N-CA	6.12	125.80	119.56
45	l8	72	PRO	CA-C-N	6.11	125.83	119.05
45	l8	72	PRO	C-N-CA	6.11	125.83	119.05
69	o3	95	GLY	N-CA-C	-6.11	106.73	115.64
50	M4	30	GLY	N-CA-C	-6.10	107.67	115.42
1	6	158	U	C2'-C3'-O3'	6.10	118.65	109.50
41	l4	230	VAL	CB-CA-C	-6.10	104.16	111.97
64	n8	45	MET	N-CA-C	6.10	119.56	111.75
21	C9	54	PHE	N-CA-C	-6.09	104.72	111.36
13	c1	107	VAL	CB-CA-C	-6.09	104.01	110.16
41	L4	340	GLY	N-CA-C	-6.08	106.07	115.73
17	c5	30	THR	N-CA-C	-6.07	103.61	111.02
27	d5	87	GLY	N-CA-C	6.07	119.01	112.33
11	s9	3	ARG	NE-CZ-NH2	6.05	124.65	119.20
46	l9	151	VAL	CB-CA-C	-6.04	103.97	111.70
10	s8	54	LYS	N-CA-C	-6.04	100.16	109.52
69	O3	89	LEU	CA-C-N	6.03	125.91	119.28
69	O3	89	LEU	C-N-CA	6.03	125.91	119.28
49	M3	138	VAL	N-CA-C	-6.03	99.73	108.71
50	M4	26	GLY	N-CA-C	6.02	119.41	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	c4	91	THR	N-CA-C	6.02	123.62	110.80
28	D6	96	ALA	CA-C-N	6.01	126.57	120.38
28	D6	96	ALA	C-N-CA	6.01	126.57	120.38
41	L4	153	SER	N-CA-C	6.01	118.53	110.35
56	n0	171	PHE	N-CA-C	6.01	119.57	112.72
69	o3	32	ILE	N-CA-C	6.01	117.05	107.98
59	n3	4	ASN	N-CA-C	6.00	118.97	110.14
49	M3	26	PHE	N-CA-C	-6.00	105.45	112.89
9	s7	156	SER	N-CA-C	-5.99	105.88	113.43
19	c7	42	GLN	N-CA-C	5.99	119.69	112.38
51	m5	185	ALA	N-CA-C	-5.99	105.95	113.20
62	n6	14	LYS	N-CA-C	-5.99	104.82	111.71
22	d0	37	VAL	N-CA-C	-5.99	104.79	110.42
70	O4	33	GLN	CA-C-N	-5.98	113.74	122.65
70	O4	33	GLN	C-N-CA	-5.98	113.74	122.65
70	o4	71	THR	N-CA-C	5.98	117.29	108.86
2	S0	27	ARG	N-CA-C	5.97	114.48	108.75
78	q2	31	GLY	N-CA-C	5.97	121.37	112.41
69	o3	32	ILE	CB-CA-C	-5.97	104.78	111.23
28	D6	97	PRO	N-CA-C	5.96	117.98	110.70
47	M0	4	ARG	CA-C-N	5.95	126.25	119.83
47	M0	4	ARG	C-N-CA	5.95	126.25	119.83
49	m3	75	PHE	N-CA-C	5.94	119.84	112.59
23	D1	13	VAL	CA-C-N	5.94	127.26	119.84
23	D1	13	VAL	C-N-CA	5.94	127.26	119.84
76	q0	88	LYS	N-CA-C	-5.94	105.30	112.54
19	C7	98	GLY	N-CA-C	5.93	117.13	111.67
32	E0	7	SER	N-CA-C	5.93	118.61	110.24
41	L4	328	ASN	N-CA-C	5.93	122.92	109.81
43	L6	140	VAL	N-CA-C	5.93	116.12	110.42
49	M3	57	VAL	CB-CA-C	-5.93	103.45	111.63
3	s1	205	PHE	CA-C-N	5.92	127.24	119.84
3	s1	205	PHE	C-N-CA	5.92	127.24	119.84
39	l2	55	GLY	N-CA-C	-5.92	102.35	111.64
73	O7	49	TRP	N-CA-C	-5.91	105.83	113.16
39	l2	113	VAL	N-CA-C	5.91	115.74	108.53
26	d4	58	PHE	N-CA-C	5.91	123.39	110.80
39	l2	111	THR	CA-C-N	-5.91	115.48	123.10
39	l2	111	THR	C-N-CA	-5.91	115.48	123.10
28	d6	83	ILE	N-CA-C	-5.90	104.60	110.62
47	m0	17	TYR	CA-C-N	5.90	125.87	120.03
47	m0	17	TYR	C-N-CA	5.90	125.87	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	l2	107	VAL	CA-C-N	5.90	127.22	119.84
39	l2	107	VAL	C-N-CA	5.90	127.22	119.84
20	C8	145	ARG	CB-CA-C	-5.90	108.10	115.89
68	o2	6	HIS	CA-C-N	5.90	126.71	120.11
68	o2	6	HIS	C-N-CA	5.90	126.71	120.11
30	d8	41	VAL	N-CA-C	5.88	116.58	107.99
42	L5	43	LYS	N-CA-C	-5.88	104.65	112.94
15	c3	18	TYR	N-CA-C	-5.88	101.20	109.96
20	C8	82	PRO	CA-C-O	-5.88	116.85	121.38
8	S6	85	ARG	CA-C-N	5.88	126.21	119.92
8	S6	85	ARG	C-N-CA	5.88	126.21	119.92
45	l8	24	ASN	CA-C-N	5.88	127.19	119.84
45	l8	24	ASN	C-N-CA	5.88	127.19	119.84
76	Q0	79	GLU	CA-C-N	5.87	126.01	119.32
76	Q0	79	GLU	C-N-CA	5.87	126.01	119.32
34	SR	126	SER	N-CA-C	5.87	117.77	108.79
41	L4	192	GLY	N-CA-C	-5.86	105.68	112.83
24	d2	82	LYS	N-CA-C	-5.86	102.80	110.53
34	sR	37	SER	N-CA-C	5.86	116.01	108.34
69	O3	90	PRO	N-CA-C	5.85	121.55	113.65
10	s8	115	ALA	N-CA-C	-5.85	106.78	114.04
9	s7	64	VAL	CA-C-N	-5.85	112.99	119.19
9	s7	64	VAL	C-N-CA	-5.85	112.99	119.19
30	d8	19	THR	CB-CA-C	-5.85	107.09	114.40
39	l2	225	ILE	N-CA-C	5.85	117.01	108.53
2	s0	105	GLY	N-CA-C	-5.85	106.42	116.01
54	m8	99	THR	CB-CA-C	-5.84	98.79	110.42
11	s9	90	LYS	N-CA-C	-5.84	103.31	110.61
45	l8	68	ARG	N-CA-C	-5.84	102.67	110.55
34	SR	203	THR	N-CA-C	5.84	118.52	110.35
16	c4	35	GLY	N-CA-C	5.84	127.01	113.18
33	e1	107	LYS	N-CA-C	5.83	118.46	110.24
54	m8	85	GLY	N-CA-C	-5.83	102.75	110.74
54	m8	170	ARG	N-CA-C	-5.83	102.42	110.35
79	Q3	21	SER	N-CA-C	5.82	118.38	111.33
40	L3	347	SER	N-CA-C	5.82	123.20	110.80
27	d5	50	ILE	N-CA-C	5.82	116.01	110.42
78	Q2	35	LEU	N-CA-C	-5.82	102.98	110.19
31	d9	27	HIS	N-CA-C	-5.82	106.83	114.04
36	5	1329	U	C4'-C3'-O3'	5.82	118.12	109.40
44	l7	217	PRO	CA-C-N	-5.81	114.79	122.99
44	l7	217	PRO	C-N-CA	-5.81	114.79	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	s9	159	ALA	CA-C-N	5.80	125.66	119.28
11	s9	159	ALA	C-N-CA	5.80	125.66	119.28
42	l5	271	LYS	N-CA-C	-5.78	103.49	111.81
49	m3	74	GLY	CA-C-N	-5.77	113.49	122.67
49	m3	74	GLY	C-N-CA	-5.77	113.49	122.67
46	l9	121	LYS	N-CA-C	-5.77	105.34	112.90
35	SM	53	ARG	CA-C-N	5.77	125.77	119.89
35	SM	53	ARG	C-N-CA	5.77	125.77	119.89
56	n0	137	ARG	N-CA-C	5.77	118.13	108.73
47	M0	121	LYS	CA-C-N	-5.76	113.82	119.76
47	M0	121	LYS	C-N-CA	-5.76	113.82	119.76
51	M5	78	GLY	N-CA-C	-5.76	107.72	115.21
10	s8	34	ALA	CA-C-N	-5.76	115.25	123.20
10	s8	34	ALA	C-N-CA	-5.76	115.25	123.20
55	M9	61	SER	N-CA-C	5.75	118.04	111.02
26	d4	60	PHE	N-CA-C	5.75	118.45	107.75
42	l5	122	VAL	CB-CA-C	-5.75	106.82	111.71
54	M8	18	ALA	CA-C-N	-5.75	113.86	119.78
54	M8	18	ALA	C-N-CA	-5.75	113.86	119.78
2	S0	105	GLY	N-CA-C	-5.73	107.06	115.72
54	m8	60	PRO	O-C-N	5.73	123.84	121.15
42	l5	259	LYS	N-CA-C	-5.73	102.81	110.55
47	m0	169	LYS	N-CA-C	-5.73	101.82	110.24
68	O2	22	SER	N-CA-C	-5.73	106.25	113.18
61	n5	138	ARG	N-CA-C	-5.73	105.96	113.12
51	M5	73	ARG	CA-C-N	5.72	126.99	119.84
51	M5	73	ARG	C-N-CA	5.72	126.99	119.84
6	s4	28	ALA	N-CA-C	-5.72	103.45	110.31
5	s3	132	LYS	N-CA-C	-5.71	106.48	113.50
45	l8	78	PHE	N-CA-C	-5.70	103.17	110.53
27	D5	95	HIS	N-CA-C	5.70	122.94	110.80
43	l6	58	LEU	N-CA-C	5.70	117.89	110.43
40	L3	242	THR	N-CA-C	5.70	117.96	109.25
24	d2	92	ASN	CA-C-N	-5.69	113.60	122.37
24	d2	92	ASN	C-N-CA	-5.69	113.60	122.37
67	o1	69	TYR	N-CA-C	5.69	117.17	110.97
54	M8	100	THR	CA-C-N	-5.68	115.69	123.14
54	M8	100	THR	C-N-CA	-5.68	115.69	123.14
58	N2	59	ASP	N-CA-C	-5.68	106.32	113.20
4	s2	84	LYS	CA-C-N	-5.67	112.75	119.84
4	s2	84	LYS	C-N-CA	-5.67	112.75	119.84
63	N7	103	GLN	CA-C-N	5.67	124.87	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	N7	103	GLN	C-N-CA	5.67	124.87	118.97
47	m0	159	PHE	CA-C-N	5.67	126.11	119.99
47	m0	159	PHE	C-N-CA	5.67	126.11	119.99
13	c1	128	CYS	N-CA-C	5.67	122.87	110.80
1	6	158	U	P-O3'-C3'	5.66	128.69	120.20
79	q3	17	ARG	N-CA-C	5.66	117.37	110.41
62	n6	56	VAL	N-CA-C	5.66	115.69	107.88
41	L4	190	GLY	N-CA-C	5.66	126.58	113.18
64	N8	95	SER	N-CA-C	5.66	117.13	108.42
47	M0	62	SER	N-CA-C	-5.65	105.26	111.82
57	n1	42	ILE	N-CA-C	5.65	116.34	108.89
27	D5	98	GLN	N-CA-C	5.64	117.89	109.59
44	l7	92	ILE	N-CA-C	5.64	118.32	112.90
51	m5	162	ARG	N-CA-C	-5.64	106.39	113.72
47	M0	159	PHE	CA-C-N	5.63	125.61	120.03
47	M0	159	PHE	C-N-CA	5.63	125.61	120.03
28	d6	97	PRO	O-C-N	5.62	123.79	121.15
51	M5	185	ALA	N-CA-C	-5.62	105.77	113.30
68	O2	41	VAL	N-CA-C	5.62	117.03	110.62
40	l3	238	LEU	CA-C-N	5.62	126.86	119.84
40	l3	238	LEU	C-N-CA	5.62	126.86	119.84
3	S1	196	GLU	N-CA-C	-5.62	105.24	111.36
43	l6	59	GLU	N-CA-C	5.62	119.87	113.19
39	L2	185	ALA	N-CA-C	-5.61	104.78	111.69
18	c6	40	GLU	CA-C-N	-5.61	114.03	119.87
18	c6	40	GLU	C-N-CA	-5.61	114.03	119.87
47	M0	120	GLY	N-CA-C	5.61	119.77	112.25
16	c4	25	ASP	N-CA-C	5.61	116.67	108.14
9	S7	50	ASP	N-CA-C	5.61	118.39	109.81
40	l3	240	ARG	N-CA-C	-5.61	104.65	112.45
42	l5	110	LEU	N-CA-C	-5.61	106.21	113.16
3	S1	218	LEU	CA-CB-CG	5.60	135.91	116.30
3	s1	145	LYS	N-CA-C	-5.60	102.73	110.35
16	c4	80	HIS	CA-C-N	-5.60	115.20	122.99
16	c4	80	HIS	C-N-CA	-5.60	115.20	122.99
72	O6	21	THR	CA-C-N	5.60	125.57	120.03
72	O6	21	THR	C-N-CA	5.60	125.57	120.03
64	n8	37	GLY	N-CA-C	-5.60	107.72	114.66
54	m8	20	LYS	N-CA-C	-5.60	105.95	112.89
25	D3	111	GLY	N-CA-C	-5.59	101.62	112.02
69	o3	89	LEU	CA-C-N	5.59	126.83	119.84
69	o3	89	LEU	C-N-CA	5.59	126.83	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	S1	153	HIS	N-CA-C	5.58	121.65	114.56
59	N3	110	LYS	N-CA-C	-5.58	106.60	113.41
39	l2	185	ALA	N-CA-C	-5.58	105.58	112.90
42	L5	93	THR	N-CA-C	-5.58	105.44	114.09
13	C1	53	TYR	CA-C-N	-5.56	117.52	122.97
13	C1	53	TYR	C-N-CA	-5.56	117.52	122.97
73	O7	87	SER	N-CA-C	5.56	116.60	108.14
64	n8	46	ASP	N-CA-C	-5.56	100.12	109.07
2	S0	108	THR	N-CA-C	-5.56	103.04	110.55
13	C1	131	ILE	N-CA-C	-5.56	107.40	112.96
3	S1	204	ILE	CB-CA-C	-5.55	106.11	111.05
56	n0	167	ARG	CA-C-N	-5.55	115.02	120.52
56	n0	167	ARG	C-N-CA	-5.55	115.02	120.52
71	O5	38	ARG	CA-C-N	5.55	126.78	119.84
71	O5	38	ARG	C-N-CA	5.55	126.78	119.84
5	s3	219	ALA	CA-C-N	5.55	126.77	119.84
5	s3	219	ALA	C-N-CA	5.55	126.77	119.84
39	L2	13	GLY	CA-C-N	-5.54	114.99	121.64
39	L2	13	GLY	C-N-CA	-5.54	114.99	121.64
39	L2	177	LYS	CA-C-N	5.54	126.77	119.84
39	L2	177	LYS	C-N-CA	5.54	126.77	119.84
6	s4	97	GLU	N-CA-C	5.54	118.85	109.76
36	5	1716	U	C2'-C3'-O3'	5.54	117.81	109.50
40	l3	32	PHE	CA-C-N	5.54	126.76	119.84
40	l3	32	PHE	C-N-CA	5.54	126.76	119.84
22	d0	71	PRO	N-CA-C	-5.53	103.16	111.57
31	d9	9	SER	N-CA-C	5.53	116.54	108.14
70	o4	48	GLY	N-CA-C	5.53	122.71	115.47
45	l8	132	VAL	CB-CA-C	-5.52	102.23	111.29
60	N4	93	ARG	N-CA-C	-5.52	106.54	113.72
41	l4	300	ARG	CA-C-N	5.52	126.74	119.84
41	l4	300	ARG	C-N-CA	5.52	126.74	119.84
36	1	1329	U	C4'-C3'-O3'	5.51	117.67	109.40
24	D2	127	GLY	N-CA-C	5.51	126.24	113.18
54	M8	99	THR	N-CA-C	5.51	122.53	110.80
33	E1	138	ARG	N-CA-C	5.51	122.53	110.80
31	d9	10	HIS	CA-C-N	5.51	126.72	119.84
31	d9	10	HIS	C-N-CA	5.51	126.72	119.84
33	e1	100	LEU	CB-CA-C	-5.50	109.24	115.79
42	l5	180	PHE	CA-C-N	-5.50	113.89	119.83
42	l5	180	PHE	C-N-CA	-5.50	113.89	119.83
39	L2	207	VAL	CB-CA-C	-5.50	104.02	112.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	l4	14	GLU	N-CA-C	5.50	122.52	110.80
4	s2	98	PHE	N-CA-C	5.50	118.44	109.59
36	1	3319	U	C2'-C3'-O3'	5.49	117.73	109.50
54	m8	3	ILE	CB-CA-C	-5.49	101.61	110.28
6	S4	28	ALA	CA-C-N	-5.48	114.15	119.90
6	S4	28	ALA	C-N-CA	-5.48	114.15	119.90
26	D4	134	ALA	N-CA-C	-5.48	107.60	114.56
74	O8	69	LEU	CA-C-N	5.48	126.02	120.38
74	O8	69	LEU	C-N-CA	5.48	126.02	120.38
30	d8	30	VAL	N-CA-C	5.48	115.78	108.11
66	o0	32	LYS	N-CA-C	-5.48	105.21	111.07
25	D3	5	LYS	CA-C-N	5.47	125.65	119.90
25	D3	5	LYS	C-N-CA	5.47	125.65	119.90
20	C8	102	ALA	CB-CA-C	-5.47	110.25	116.54
52	m6	93	ALA	N-CA-C	-5.47	105.22	111.07
6	S4	194	THR	N-CA-C	5.46	122.44	110.80
15	C3	22	ALA	C-N-CD	-5.46	108.58	120.60
16	C4	136	ARG	N-CA-C	5.46	117.31	108.41
64	n8	125	VAL	N-CA-C	5.46	115.45	107.37
71	o5	37	SER	N-CA-C	-5.46	105.92	113.18
1	6	1	U	N1-C1'-C2'	5.45	120.18	112.00
8	s6	33	GLY	N-CA-C	-5.45	107.75	115.43
60	n4	84	GLY	N-CA-C	-5.44	107.81	115.32
43	l6	66	SER	CA-C-N	-5.44	113.33	121.87
43	l6	66	SER	C-N-CA	-5.44	113.33	121.87
33	E1	125	THR	N-CA-C	-5.44	105.45	113.61
8	s6	90	GLY	N-CA-C	-5.44	107.85	114.92
44	L7	128	LYS	N-CA-C	-5.43	104.59	111.11
70	o4	36	LYS	CA-C-N	-5.43	115.23	122.72
70	o4	36	LYS	C-N-CA	-5.43	115.23	122.72
8	S6	129	VAL	CA-C-N	5.43	125.33	119.85
8	S6	129	VAL	C-N-CA	5.43	125.33	119.85
28	D6	11	ASN	N-CA-C	5.43	122.36	110.80
8	S6	103	GLY	CA-C-N	5.42	125.90	120.04
8	S6	103	GLY	C-N-CA	5.42	125.90	120.04
48	m1	149	GLY	N-CA-C	5.42	118.29	112.33
64	n8	28	HIS	N-CA-C	5.42	121.78	109.81
4	S2	93	GLY	N-CA-C	5.42	118.40	110.38
54	M8	34	THR	N-CA-C	-5.42	105.46	111.36
3	s1	131	ASP	N-CA-C	-5.41	103.38	110.53
24	d2	59	GLY	CA-C-O	-5.41	118.55	122.45
18	C6	114	ARG	N-CA-C	-5.41	99.28	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	m6	85	ARG	N-CA-C	-5.41	105.46	111.36
18	c6	123	ARG	CA-C-N	-5.41	115.19	120.98
18	c6	123	ARG	C-N-CA	-5.41	115.19	120.98
58	n2	29	ASP	CA-C-N	5.41	126.60	119.84
58	n2	29	ASP	C-N-CA	5.41	126.60	119.84
27	D5	40	VAL	N-CA-C	5.41	120.59	109.34
9	S7	87	ASP	N-CA-C	-5.41	106.63	113.23
5	S3	137	VAL	N-CA-C	5.40	120.58	109.34
3	s1	145	LYS	CA-C-N	-5.40	114.42	122.74
3	s1	145	LYS	C-N-CA	-5.40	114.42	122.74
42	l5	126	GLU	N-CA-C	-5.40	106.00	112.59
56	n0	82	ASP	N-CA-C	5.40	117.55	107.99
40	L3	330	GLY	CA-C-O	-5.40	118.26	122.52
4	s2	107	SER	N-CA-C	-5.39	99.31	110.80
2	S0	67	ILE	CA-C-N	5.39	126.58	119.84
2	S0	67	ILE	C-N-CA	5.39	126.58	119.84
18	C6	65	ILE	N-CA-C	5.39	115.62	107.75
21	c9	142	GLU	N-CA-C	-5.39	106.29	112.92
51	M5	92	LEU	CA-C-N	-5.39	112.88	122.42
51	M5	92	LEU	C-N-CA	-5.39	112.88	122.42
40	l3	40	PRO	CA-C-O	-5.39	115.31	121.56
35	SM	21	PRO	O-C-N	5.38	123.68	121.15
44	l7	229	PHE	CA-CB-CG	5.38	119.18	113.80
40	l3	357	LYS	N-CA-C	-5.38	107.26	113.88
36	1	1481	A	N9-C1'-C2'	5.38	120.07	112.00
44	l7	120	THR	N-CA-C	-5.38	101.28	108.86
19	C7	121	VAL	N-CA-C	5.38	116.88	109.46
17	c5	64	LYS	N-CA-C	-5.38	105.58	111.82
40	l3	201	LYS	N-CA-C	5.37	117.46	110.53
45	l8	132	VAL	N-CA-C	5.37	120.51	109.34
52	m6	33	ILE	CA-C-N	-5.37	116.11	123.14
52	m6	33	ILE	C-N-CA	-5.37	116.11	123.14
1	6	755	A	C4'-C3'-O3'	5.37	117.45	109.40
45	L8	72	PRO	CA-C-N	5.36	126.54	119.84
45	L8	72	PRO	C-N-CA	5.36	126.54	119.84
1	2	1039	A	O4'-C1'-N9	5.36	116.23	108.20
6	S4	228	ILE	N-CA-C	5.36	120.48	109.34
19	C7	49	LYS	N-CA-C	-5.35	105.53	111.36
6	S4	34	GLY	N-CA-C	5.35	123.25	112.34
1	2	1196	A	C4'-C3'-O3'	5.35	117.42	109.40
33	e1	147	VAL	N-CA-C	5.35	116.25	110.21
47	m0	99	ILE	CB-CA-C	-5.34	103.57	110.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
61	n5	43	ALA	CA-C-N	5.34	126.52	119.84
61	n5	43	ALA	C-N-CA	5.34	126.52	119.84
9	S7	130	VAL	N-CA-C	-5.34	104.17	110.21
79	Q3	16	VAL	N-CA-C	-5.34	107.77	112.90
20	C8	86	LEU	N-CA-C	5.33	118.15	109.24
4	S2	83	ILE	N-CA-C	5.33	115.53	107.75
6	S4	106	LYS	N-CA-C	-5.33	106.73	113.18
67	O1	64	VAL	CB-CA-C	-5.33	104.95	112.14
40	L3	238	LEU	N-CA-C	-5.32	103.92	110.31
53	M7	55	GLN	N-CA-C	-5.32	107.16	113.97
56	n0	88	HIS	N-CA-C	5.32	117.47	109.23
50	m4	88	ALA	N-CA-C	5.31	118.86	112.38
10	S8	107	THR	CA-C-N	-5.30	113.21	119.84
10	S8	107	THR	C-N-CA	-5.30	113.21	119.84
47	m0	99	ILE	N-CA-CB	5.30	117.35	110.99
4	S2	226	THR	CA-C-N	5.30	126.47	119.84
4	S2	226	THR	C-N-CA	5.30	126.47	119.84
61	n5	91	ASN	N-CA-C	5.30	117.71	109.60
33	E1	144	CYS	N-CA-C	-5.30	99.52	110.80
64	N8	66	ALA	N-CA-C	-5.30	99.52	110.80
59	n3	5	GLY	CA-C-N	5.29	128.37	120.90
59	n3	5	GLY	C-N-CA	5.29	128.37	120.90
69	O3	22	VAL	N-CA-C	5.29	115.90	108.17
11	s9	148	VAL	N-CA-C	5.29	115.97	107.98
44	l7	114	GLY	N-CA-C	5.29	119.85	110.80
60	n4	79	GLN	N-CA-C	5.29	118.08	109.24
36	1	1716	U	C2'-C3'-O3'	5.29	117.43	109.50
10	S8	87	ASN	N-CA-C	5.28	116.68	107.49
10	S8	9	HIS	N-CA-C	-5.28	99.55	110.80
22	D0	31	VAL	N-CA-C	5.28	116.01	110.62
61	N5	110	VAL	CB-CA-C	-5.28	105.23	111.09
57	N1	87	LYS	CA-C-N	-5.28	115.56	123.00
57	N1	87	LYS	C-N-CA	-5.28	115.56	123.00
78	Q2	58	PHE	N-CA-C	5.28	117.88	109.96
41	l4	258	LEU	CA-C-N	-5.27	113.33	122.14
41	l4	258	LEU	C-N-CA	-5.27	113.33	122.14
52	m6	111	PRO	CA-C-N	5.27	127.60	120.38
52	m6	111	PRO	C-N-CA	5.27	127.60	120.38
77	q1	24	SER	N-CA-C	-5.27	106.44	112.92
68	o2	36	LYS	N-CA-C	-5.27	107.40	113.88
58	n2	68	THR	N-CA-C	-5.27	106.90	113.38
71	O5	84	LYS	CB-CA-C	-5.27	110.06	117.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	l5	118	THR	N-CA-C	-5.27	103.07	110.50
36	1	65	A	C2'-C3'-O3'	5.26	117.40	109.50
40	l3	263	SER	N-CA-C	5.26	119.39	112.92
68	O2	26	HIS	N-CA-C	-5.26	105.44	111.07
54	M8	162	ALA	CA-C-N	5.26	125.25	119.89
54	M8	162	ALA	C-N-CA	5.26	125.25	119.89
53	m7	59	PRO	CA-C-O	-5.26	115.75	121.27
10	S8	51	GLY	N-CA-C	-5.25	105.05	111.35
36	1	65	A	P-O3'-C3'	5.25	128.08	120.20
75	O9	12	LYS	N-CA-C	-5.25	104.81	111.11
36	1	3269	U	C4'-C3'-O3'	5.25	117.27	109.40
40	l3	205	VAL	CB-CA-C	-5.25	104.39	112.05
13	C1	58	CYS	CA-C-N	5.24	124.96	119.82
13	C1	58	CYS	C-N-CA	5.24	124.96	119.82
18	c6	135	ARG	N-CA-C	-5.24	107.91	114.56
23	D1	27	ASP	N-CA-C	-5.24	106.57	113.17
22	d0	95	ALA	CA-C-N	5.24	126.39	119.84
22	d0	95	ALA	C-N-CA	5.24	126.39	119.84
41	l4	204	GLY	CA-C-N	5.24	125.15	119.76
41	l4	204	GLY	C-N-CA	5.24	125.15	119.76
40	l3	349	LYS	N-CA-C	-5.23	105.75	111.82
67	o1	103	GLY	N-CA-C	5.23	122.31	115.36
36	1	1307	G	P-O3'-C3'	5.23	128.04	120.20
35	sM	71	ASN	N-CA-C	-5.23	107.07	113.50
50	m4	45	LEU	CA-C-N	-5.23	116.68	122.27
50	m4	45	LEU	C-N-CA	-5.23	116.68	122.27
56	n0	165	TYR	N-CA-C	-5.23	106.49	112.92
52	M6	4	GLU	CA-C-N	5.22	125.27	119.32
52	M6	4	GLU	C-N-CA	5.22	125.27	119.32
40	l3	98	GLY	N-CA-C	5.22	118.38	111.70
18	C6	48	VAL	N-CA-C	-5.21	107.32	113.42
36	5	3195	U	P-O3'-C3'	5.21	128.02	120.20
68	O2	107	VAL	CB-CA-C	-5.21	105.30	111.97
43	l6	173	MET	CB-CG-SD	-5.21	97.08	112.70
61	n5	57	LEU	N-CA-C	5.21	118.31	111.28
67	o1	90	PHE	N-CA-CB	5.21	118.34	110.42
11	s9	180	LYS	N-CA-C	-5.20	107.10	112.93
56	n0	97	VAL	N-CA-C	-5.20	107.33	113.42
36	5	2772	C	P-O3'-C3'	5.20	128.00	120.20
29	D7	43	ILE	N-CA-C	5.20	115.97	107.24
42	L5	97	ALA	N-CA-C	-5.20	105.53	111.14
48	m1	151	SER	N-CA-C	-5.19	102.59	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
65	n9	29	TYR	CA-C-N	-5.19	115.38	120.52
65	n9	29	TYR	C-N-CA	-5.19	115.38	120.52
59	n3	65	GLY	CA-C-O	-5.18	116.47	121.86
59	N3	134	GLY	N-CA-C	-5.18	100.91	113.18
61	N5	133	LEU	N-CA-C	-5.18	104.70	111.02
22	D0	52	LYS	N-CA-C	5.18	116.94	109.07
47	M0	189	GLU	N-CA-C	5.18	121.83	110.80
46	l9	80	THR	N-CA-C	-5.18	105.72	111.36
4	s2	179	VAL	CB-CA-C	-5.17	106.03	112.45
40	L3	237	LYS	N-CA-C	-5.17	103.31	110.35
46	l9	97	PHE	CA-C-N	-5.17	114.47	119.90
46	l9	97	PHE	C-N-CA	-5.17	114.47	119.90
48	M1	117	ASP	CA-C-N	5.17	126.30	119.84
48	M1	117	ASP	C-N-CA	5.17	126.30	119.84
35	sM	69	ARG	N-CA-C	-5.17	105.65	111.28
2	S0	28	ASN	N-CA-C	-5.17	106.67	112.87
52	M6	158	ALA	N-CA-C	-5.16	105.14	111.75
41	l4	115	HIS	N-CA-C	-5.16	105.73	111.36
4	S2	111	VAL	N-CA-C	5.16	116.79	108.85
55	M9	122	VAL	N-CA-C	-5.15	105.82	110.82
19	C7	54	THR	N-CA-C	-5.15	105.84	111.82
53	M7	169	THR	N-CA-C	5.15	116.57	110.19
59	N3	104	ASN	CA-C-N	-5.15	113.73	119.19
59	N3	104	ASN	C-N-CA	-5.15	113.73	119.19
1	6	1097	U	P-O3'-C3'	5.15	127.92	120.20
17	c5	53	PRO	N-CA-C	-5.14	108.80	114.92
36	5	3269	U	C4'-C3'-O3'	5.14	117.11	109.40
44	L7	162	PRO	CA-C-O	-5.14	115.40	121.67
59	N3	36	ILE	N-CA-C	5.14	116.09	108.23
4	s2	96	THR	N-CA-C	5.14	117.62	109.50
5	s3	222	VAL	N-CA-C	5.14	114.64	108.06
51	m5	67	ARG	N-CA-C	5.14	118.71	112.23
52	M6	149	TYR	N-CA-C	5.14	119.29	112.30
1	2	1568	C	P-O3'-C3'	5.14	127.91	120.20
79	Q3	71	VAL	CB-CA-C	-5.14	105.39	111.81
13	C1	144	ALA	CB-CA-C	-5.13	108.98	116.53
51	m5	128	LYS	N-CA-C	-5.13	102.92	110.52
68	o2	38	ILE	N-CA-C	5.13	115.41	110.74
78	Q2	25	VAL	N-CA-C	5.13	115.51	108.12
58	N2	21	SER	CA-C-N	-5.13	113.43	119.84
58	N2	21	SER	C-N-CA	-5.13	113.43	119.84
8	s6	11	GLY	N-CA-C	-5.13	107.98	115.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
65	n9	23	LYS	C-N-CD	5.12	146.00	125.00
39	l2	238	ILE	CA-C-N	-5.12	111.76	121.54
39	l2	238	ILE	C-N-CA	-5.12	111.76	121.54
5	S3	49	ILE	N-CA-C	5.12	114.98	108.12
11	S9	138	LYS	N-CA-C	-5.12	106.63	112.92
39	L2	156	LYS	CA-C-N	-5.12	116.85	123.19
39	L2	156	LYS	C-N-CA	-5.12	116.85	123.19
28	d6	26	CYS	N-CA-C	-5.12	105.16	111.40
20	C8	109	LEU	N-CA-C	-5.11	105.36	111.03
35	sM	173	GLU	CB-CA-C	-5.11	110.66	116.54
44	l7	95	ILE	CA-C-N	5.11	125.64	120.38
44	l7	95	ILE	C-N-CA	5.11	125.64	120.38
40	l3	129	ALA	CA-C-N	-5.11	114.47	122.95
40	l3	129	ALA	C-N-CA	-5.11	114.47	122.95
1	6	66	U	C4'-C3'-O3'	5.11	117.06	109.40
13	c1	49	ILE	N-CA-C	5.11	115.33	110.53
75	O9	46	ARG	N-CA-C	-5.10	108.32	114.75
14	c2	43	ARG	N-CA-C	5.10	116.63	107.80
36	1	3319	U	P-O3'-C3'	5.10	127.85	120.20
8	s6	172	ALA	CA-C-N	5.10	126.21	119.84
8	s6	172	ALA	C-N-CA	5.10	126.21	119.84
64	n8	25	HIS	N-CA-C	-5.09	98.03	107.71
62	N6	56	VAL	N-CA-C	5.09	114.90	107.88
9	s7	111	LYS	CB-CA-C	-5.09	109.73	115.79
25	d3	43	PHE	N-CA-C	-5.09	104.15	110.41
39	l2	171	GLY	N-CA-C	-5.09	108.21	115.64
68	o2	32	TRP	N-CA-C	5.09	117.85	110.42
53	M7	127	ARG	N-CA-C	-5.09	100.31	108.55
40	L3	25	ILE	CB-CA-C	-5.08	104.28	112.16
48	m1	112	LEU	CA-CB-CG	5.08	134.09	116.30
6	S4	73	ASP	CA-C-N	-5.08	117.92	123.30
6	S4	73	ASP	C-N-CA	-5.08	117.92	123.30
11	s9	14	THR	CA-C-N	5.07	124.98	119.76
11	s9	14	THR	C-N-CA	5.07	124.98	119.76
48	m1	150	ASN	N-CA-C	5.07	116.50	110.97
13	c1	60	PHE	N-CA-C	-5.07	102.56	110.42
15	C3	43	LYS	N-CA-C	-5.07	106.78	113.17
15	c3	64	ARG	N-CA-C	-5.07	105.94	111.82
79	q3	76	ALA	N-CA-C	-5.07	105.65	111.07
36	5	38	U	O5'-P-OP2	-5.07	92.80	108.00
66	o0	55	GLU	N-CA-C	-5.06	105.46	110.97
43	L6	8	LYS	N-CA-C	-5.05	107.16	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	l7	206	LYS	N-CA-C	5.05	117.37	107.57
2	S0	27	ARG	CB-CA-C	-5.05	109.10	116.53
72	o6	46	GLU	CA-C-N	-5.05	116.62	122.63
72	o6	46	GLU	C-N-CA	-5.05	116.62	122.63
46	l9	82	VAL	N-CA-C	-5.05	108.05	112.90
37	3	13	A	C5'-C4'-C3'	-5.05	107.63	115.20
64	N8	21	ARG	N-CA-C	-5.05	107.29	113.50
27	d5	98	GLN	N-CA-C	5.05	117.63	109.40
34	SR	49	GLY	N-CA-C	-5.04	107.65	115.67
22	D0	92	ASP	N-CA-C	5.04	116.94	108.73
55	m9	146	LYS	N-CA-C	-5.03	106.97	113.01
78	Q2	65	THR	N-CA-C	5.03	115.01	108.07
78	q2	40	LYS	N-CA-C	-5.03	105.98	111.82
25	D3	130	VAL	CB-CA-C	-5.03	103.04	111.29
36	1	939	U	C5'-C4'-O4'	-5.03	102.26	109.80
64	n8	5	PHE	CB-CA-C	-5.03	104.16	111.14
39	L2	192	LYS	CA-C-O	5.02	123.25	119.68
34	SR	155	ARG	N-CA-C	5.02	121.49	110.80
44	L7	164	SER	N-CA-C	5.01	121.48	110.80
40	L3	246	LEU	CA-C-N	-5.01	115.09	122.06
40	L3	246	LEU	C-N-CA	-5.01	115.09	122.06
82	p0	186	THR	N-CA-C	5.01	117.77	109.85
34	SR	175	ASP	N-CA-C	-5.01	106.91	112.57
34	SR	200	ASN	N-CA-C	5.01	115.61	108.54
45	L8	166	LEU	CA-C-N	-5.01	113.76	118.97
45	L8	166	LEU	C-N-CA	-5.01	113.76	118.97
40	l3	8	ALA	CA-C-N	-5.01	115.07	120.03
40	l3	8	ALA	C-N-CA	-5.01	115.07	120.03
44	l7	34	LYS	N-CA-C	-5.01	105.82	111.28
46	l9	12	VAL	CA-C-N	5.01	124.91	119.85
46	l9	12	VAL	C-N-CA	5.01	124.91	119.85
82	p0	41	VAL	N-CA-C	-5.01	106.21	113.07
66	O0	97	ASP	N-CA-C	-5.01	107.21	113.72
15	c3	134	VAL	N-CA-C	-5.00	108.42	113.47
68	o2	30	GLU	N-CA-C	5.00	117.38	111.33

There are no chirality outliers.

All (46) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
16	C4	124	ASP	Peptide

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Mol	Chain	Res	Type	Group
19	C7	22	PRO	Peptide
19	C7	85	VAL	Peptide
27	D5	54	VAL	Peptide
27	D5	94	LYS	Peptide
28	D6	84	VAL	Peptide
31	D9	9	SER	Peptide
39	L2	19	HIS	Peptide
43	L6	51	ARG	Peptide
52	M6	110	PRO	Peptide
56	N0	22	PRO	Peptide
65	N9	20	GLY	Peptide
67	O1	5	LYS	Peptide
9	S7	131	PHE	Peptide
10	S8	79	ALA	Peptide
10	S8	8	ARG	Peptide
34	SR	71	CYS	Peptide
16	c4	124	ASP	Peptide
17	c5	52	LYS	Peptide
18	c6	41	PRO	Peptide
19	c7	66	VAL	Peptide
19	c7	96	SER	Peptide
22	d0	70	THR	Peptide
25	d3	44	GLY	Peptide
26	d4	29	HIS	Peptide
27	d5	85	LYS	Peptide
39	l2	141	PRO	Peptide
39	l2	143	GLU	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
47	m0	168	SER	Peptide
81	m2	29	UNK	Peptide
51	m5	182	ASN	Peptide
52	m6	110	PRO	Peptide
64	n8	46	ASP	Peptide
64	n8	66	ALA	Peptide
65	n9	19	ASN	Peptide
67	o1	90	PHE	Peptide
68	o2	15	LYS	Peptide
68	o2	4	LEU	Peptide
73	o7	83	ALA	Peptide
7	s5	44	ASN	Peptide
7	s5	99	MET	Peptide

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Mol	Chain	Res	Type	Group
9	s7	130	VAL	Peptide
9	s7	30	SER	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37283	0	18757	966	1
1	6	38238	0	19240	863	0
2	S0	1577	0	1567	86	0
2	s0	1583	0	1578	70	0
3	S1	1709	0	1784	114	0
3	s1	1722	0	1793	86	0
4	S2	1635	0	1723	73	0
4	s2	1635	0	1723	74	0
5	S3	1734	0	1817	74	0
5	s3	1734	0	1817	73	0
6	S4	2068	0	2154	91	0
6	s4	2068	0	2154	98	0
7	S5	1609	0	1675	106	0
7	s5	1609	0	1675	90	0
8	S6	1799	0	1878	103	0
8	s6	1755	0	1846	73	0
9	S7	1481	0	1572	73	0
9	s7	1491	0	1578	79	0
10	S8	1489	0	1525	56	0
10	s8	1489	0	1525	72	0
11	S9	1494	0	1573	76	0
11	s9	1494	0	1573	88	0
12	C0	773	0	729	40	0
12	c0	762	0	699	39	0
13	C1	1214	0	1259	59	0
13	c1	1168	0	1231	55	0
14	C2	892	0	891	29	0
14	c2	892	0	891	23	0
15	C3	1192	0	1255	50	0
15	c3	1192	0	1255	57	0
16	C4	891	0	883	58	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	c4	949	0	985	48	0
17	C5	977	0	1002	52	0
17	c5	1039	0	1050	65	0
18	C6	1105	0	1166	59	0
18	c6	1111	0	1171	48	0
19	C7	926	0	930	43	0
19	c7	906	0	909	37	0
20	C8	1192	0	1222	65	0
20	c8	1192	0	1222	61	0
21	C9	1112	0	1124	57	0
21	c9	1112	0	1124	41	0
22	D0	855	0	917	51	0
22	d0	882	0	939	38	0
23	D1	684	0	672	36	0
23	d1	684	0	672	34	0
24	D2	1021	0	1060	48	0
24	d2	1021	0	1060	40	0
25	D3	1121	0	1196	61	0
25	d3	1121	0	1196	42	0
26	D4	1073	0	1132	48	0
26	d4	1073	0	1132	48	0
27	D5	563	0	603	34	0
27	d5	558	0	598	38	0
28	D6	769	0	814	81	0
28	d6	769	0	814	47	0
29	D7	610	0	631	19	0
29	d7	610	0	632	19	0
30	D8	497	0	535	26	0
30	d8	497	0	535	25	0
31	D9	442	0	428	20	0
31	d9	442	0	428	20	0
32	E0	475	0	525	19	0
33	E1	566	0	602	35	0
33	e1	608	0	656	34	0
34	SR	2441	0	2397	109	0
34	sR	2442	0	2392	93	0
35	SM	1104	0	996	50	0
35	sM	679	0	603	31	0
36	1	67355	0	33845	1220	0
36	5	67376	0	33856	1198	0
37	3	2579	0	1304	55	0
37	7	2579	0	1303	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	4	3353	0	1695	65	1
38	8	3353	0	1695	72	0
39	L2	1914	0	1981	81	0
39	l2	1912	0	1976	86	0
40	L3	3075	0	3142	128	0
40	l3	3075	0	3142	134	0
41	L4	2748	0	2859	120	0
41	l4	2748	0	2859	133	0
42	L5	2375	0	2325	119	0
42	l5	2359	0	2311	91	0
43	L6	1239	0	1326	35	0
43	l6	1248	0	1339	50	0
44	L7	1784	0	1862	74	0
44	l7	1791	0	1869	57	0
45	L8	1804	0	1877	68	0
45	l8	1763	0	1819	68	0
46	L9	1518	0	1587	93	0
46	l9	1518	0	1587	71	0
47	M0	1705	0	1735	75	0
47	m0	1722	0	1755	87	0
48	M1	1353	0	1383	66	0
48	m1	1353	0	1383	56	0
49	M3	1543	0	1608	72	0
49	m3	1548	0	1613	86	0
50	M4	1053	0	1149	51	0
50	m4	1059	0	1154	50	0
51	M5	1720	0	1779	73	0
51	m5	1720	0	1779	74	0
52	M6	1555	0	1659	66	0
52	m6	1555	0	1659	67	0
53	M7	1420	0	1437	44	0
53	m7	1227	0	1236	56	0
54	M8	1441	0	1543	63	0
54	m8	1441	0	1543	45	0
55	M9	1521	0	1617	68	0
55	m9	1521	0	1617	58	0
56	N0	1445	0	1487	51	0
56	n0	1445	0	1487	54	0
57	N1	1276	0	1323	48	0
57	n1	1276	0	1323	61	0
58	N2	796	0	812	23	0
58	n2	778	0	791	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	N3	1003	0	1048	44	0
59	n3	1003	0	1048	39	0
60	N4	699	0	640	14	0
60	n4	1038	0	1071	23	1
61	N5	964	0	1025	33	0
61	n5	959	0	1023	43	0
62	N6	993	0	1081	34	0
62	n6	993	0	1081	37	0
63	N7	1092	0	1155	52	0
63	n7	1092	0	1155	54	0
64	N8	1173	0	1215	57	0
64	n8	1173	0	1215	65	0
65	N9	462	0	491	10	0
65	n9	462	0	491	31	0
66	O0	743	0	797	27	0
66	o0	767	0	816	35	0
67	O1	876	0	912	23	0
67	o1	883	0	918	28	0
68	O2	1020	0	1090	38	0
68	o2	1020	0	1090	43	0
69	O3	850	0	880	32	0
69	o3	850	0	880	37	0
70	O4	880	0	945	45	0
70	o4	880	0	945	34	0
71	O5	969	0	1078	42	0
71	o5	965	0	1067	60	0
72	O6	771	0	849	44	0
72	o6	770	0	846	30	0
73	O7	681	0	683	27	0
73	o7	681	0	683	25	0
74	O8	612	0	682	20	0
74	o8	608	0	671	31	0
75	O9	436	0	475	22	0
75	o9	436	0	475	18	0
76	Q0	417	0	455	13	0
76	q0	417	0	455	13	0
77	Q1	233	0	284	15	0
77	q1	233	0	284	11	0
78	Q2	847	0	917	33	0
78	q2	847	0	918	36	0
79	Q3	694	0	734	28	0
79	q3	694	0	734	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
80	e0	491	0	542	23	0
81	m2	750	0	174	8	0
82	p0	1076	0	1040	40	1
83	p1	235	0	51	4	0
84	p2	230	0	54	1	0
85	1	471	0	0	0	0
85	2	124	0	0	0	0
85	3	14	0	0	0	0
85	4	21	0	0	0	0
85	5	504	0	0	0	0
85	6	147	0	0	0	0
85	7	14	0	0	0	0
85	8	16	0	0	0	0
85	D0	1	0	0	0	0
85	D3	1	0	0	0	0
85	L2	1	0	0	0	0
85	L3	2	0	0	0	0
85	L4	2	0	0	0	0
85	L5	1	0	0	0	0
85	L7	3	0	0	0	0
85	L8	1	0	0	0	0
85	M0	2	0	0	0	0
85	M1	1	0	0	0	0
85	M3	3	0	0	0	0
85	M5	2	0	0	0	0
85	M6	2	0	0	0	0
85	M7	4	0	0	0	0
85	M9	3	0	0	0	0
85	N0	1	0	0	0	0
85	N3	2	0	0	0	0
85	N5	1	0	0	0	0
85	N6	1	0	0	0	0
85	N8	4	0	0	0	0
85	N9	1	0	0	0	0
85	O2	1	0	0	0	0
85	O3	1	0	0	0	0
85	O7	2	0	0	0	0
85	Q2	1	0	0	0	0
85	S2	2	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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	c7	1	0	0	0	0
85	c8	2	0	0	0	0
85	d3	2	0	0	0	0
85	d6	1	0	0	0	0
85	l2	1	0	0	0	0
85	l3	2	0	0	0	0
85	l4	1	0	0	0	0
85	l5	2	0	0	0	0
85	l7	2	0	0	0	0
85	l8	1	0	0	0	0
85	m1	2	0	0	0	0
85	m5	4	0	0	0	0
85	m6	2	0	0	0	0
85	m7	5	0	0	0	0
85	n0	2	0	0	0	0
85	n3	2	0	0	0	0
85	n6	1	0	0	0	0
85	n8	4	0	0	0	0
85	o1	1	0	0	0	0
85	o3	1	0	0	0	0
85	o4	1	0	0	0	0
85	q0	1	0	0	0	0
85	q1	1	0	0	0	0
85	q3	2	0	0	0	0
85	s1	1	0	0	0	0
85	s2	1	0	0	0	0
85	s8	2	0	0	0	0
85	sM	2	0	0	0	0
86	1	2457	0	0	209	0
86	2	1078	0	0	113	0
86	3	84	0	0	2	0
86	4	119	0	0	13	0
86	5	2464	0	0	210	0
86	6	1106	0	0	111	0
86	7	84	0	0	8	0
86	8	112	0	0	18	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	0	0
86	D9	7	0	0	1	0
86	L3	21	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	L4	7	0	0	1	0
86	M0	7	0	0	0	0
86	M5	7	0	0	1	0
86	M7	14	0	0	2	0
86	M9	7	0	0	0	0
86	N1	7	0	0	1	0
86	N9	7	0	0	0	0
86	O3	7	0	0	1	0
86	O7	7	0	0	7	0
86	Q2	7	0	0	2	0
86	S6	7	0	0	0	0
86	S8	7	0	0	0	0
86	SR	7	0	0	0	0
86	c3	7	0	0	2	0
86	c5	7	0	0	1	0
86	c8	7	0	0	0	0
86	d4	7	0	0	1	0
86	d9	7	0	0	0	0
86	l3	14	0	0	0	0
86	l4	14	0	0	1	0
86	l5	21	0	0	1	0
86	l9	7	0	0	0	0
86	m0	14	0	0	3	0
86	m1	7	0	0	0	0
86	m4	7	0	0	0	0
86	m5	7	0	0	0	0
86	m6	7	0	0	0	0
86	m7	7	0	0	1	0
86	m8	7	0	0	0	0
86	n3	7	0	0	0	0
86	n9	14	0	0	2	0
86	o2	7	0	0	0	0
86	o3	7	0	0	1	0
86	o7	14	0	0	4	0
86	q1	7	0	0	6	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	2	0
86	sR	7	0	0	0	0
87	2	40	0	37	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	6	40	0	37	1	0
88	D6	1	0	0	0	0
88	D7	1	0	0	0	0
88	D9	1	0	0	0	0
88	E1	1	0	0	0	0
88	O7	1	0	0	0	0
88	Q0	1	0	0	0	0
88	Q2	1	0	0	0	0
88	Q3	1	0	0	0	0
88	d6	1	0	0	0	0
88	d7	1	0	0	0	0
88	d9	1	0	0	0	0
88	e1	1	0	0	0	0
88	o7	1	0	0	0	0
88	q0	1	0	0	0	0
88	q2	1	0	0	0	0
88	q3	1	0	0	0	0
All	All	411223	0	297358	10941	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

All (10941) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:17:CYS:SG	78:q2:17:CYS:CB	2.01	1.48
78:Q2:17:CYS:SG	78:Q2:17:CYS:CB	2.04	1.43
40:l3:296:THR:HG22	40:l3:298:PHE:H	1.20	1.05
1:6:1011:G:OP2	86:6:2120:OHX:N3	1.90	1.03
1:2:1339:C:O2'	1:2:1341:A:N7	1.94	1.01
76:q0:77:ILE:HG23	76:q0:78:ILE:HG22	1.42	1.00
36:5:31:C:OP2	51:m5:188:ARG:NH2	1.94	1.00
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.42	0.99
36:5:3274:A:H3'	36:5:3275:U:H5''	1.42	0.99
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.44	0.98
50:M4:113:THR:HB	50:M4:116:GLU:HG3	1.44	0.98
36:5:2273:G:O6	86:5:4199:OHX:N5	1.97	0.98
50:m4:55:ARG:NH2	50:m4:76:ALA:O	1.97	0.97
36:5:3194:C:O2	36:5:3197:G:N2	1.99	0.96
36:5:2836:C:H5	36:5:2852:C:H42	1.14	0.94
1:6:1552:U:OP2	17:c5:43:ARG:NH2	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:m3:46:ILE:HG22	49:m3:49:ARG:HB2	1.48	0.94
1:2:320:U:H3'	1:2:321:C:H5''	1.49	0.94
36:1:2356:A:H61	36:1:2983:C:H5	1.16	0.93
41:l4:99:MET:HE3	41:l4:102:PRO:HA	1.48	0.93
36:1:2443:A:N6	36:1:2504:U:O4	2.01	0.93
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.51	0.92
1:6:448:C:OP2	6:s4:49:ARG:NH1	2.03	0.92
36:1:439:C:H3'	36:1:440:A:H8	1.34	0.92
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.49	0.92
31:d9:21:CYS:HB2	31:d9:39:CYS:HB3	1.48	0.92
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.02	0.92
86:6:2158:OHX:N2	25:d3:64:PRO:O	2.03	0.92
36:5:2620:G:O6	86:5:4242:OHX:N4	2.03	0.92
70:O4:8:ARG:HG2	70:O4:8:ARG:HH11	1.35	0.91
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.03	0.91
1:2:1585:U:H3	1:2:1611:A:H2	1.15	0.91
11:S9:90:LYS:HB2	11:S9:95:TYR:HD1	1.35	0.91
1:6:1588:G:H1	1:6:1608:U:H3	1.12	0.91
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.04	0.91
1:2:1508:U:O4	86:2:2032:OHX:N5	2.04	0.91
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.51	0.90
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.53	0.90
56:n0:13:ARG:HH11	56:n0:13:ARG:HG3	1.35	0.90
63:n7:97:SER:HB3	63:n7:99:GLU:HG2	1.52	0.90
75:O9:5:LYS:HD3	75:O9:13:MET:HE1	1.52	0.90
52:m6:110:PRO:O	52:m6:112:TYR:N	2.05	0.90
36:1:2208:A:N1	86:1:4042:OHX:N2	2.20	0.89
36:5:437:G:H22	36:5:622:A:H61	1.20	0.89
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.54	0.89
40:L3:25:ILE:HD13	40:L3:25:ILE:H	1.38	0.89
53:m7:136:ILE:O	53:m7:137:ASN:ND2	2.04	0.89
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.05	0.89
36:5:14:U:H1'	61:n5:42:ARG:HD2	1.55	0.89
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.52	0.89
36:1:3134:A:OP1	86:1:3898:OHX:N4	2.05	0.88
41:l4:300:ARG:HG2	41:l4:300:ARG:HH11	1.39	0.88
36:5:2181:C:OP1	39:l2:193:ARG:NH2	2.05	0.88
41:l4:329:PRO:O	41:l4:331:ALA:N	2.07	0.88
4:S2:140:ARG:NH1	23:D1:1:MET:SD	2.47	0.88
11:s9:149:ARG:HG2	11:s9:149:ARG:HH11	1.37	0.88
1:2:992:A:H2	1:2:1012:U:H3	1.17	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:12:VAL:HB	46:l9:51:GLN:HA	1.57	0.87
19:C7:47:ARG:NH1	19:C7:48:ASN:OD1	2.08	0.87
1:6:1098:U:OP2	4:s2:168:ARG:NE	2.06	0.87
12:c0:11:ILE:HD11	12:c0:42:VAL:HA	1.56	0.87
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.57	0.87
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.07	0.86
75:o9:5:LYS:HD3	75:o9:13:MET:HE1	1.55	0.86
50:m4:19:ARG:HA	50:m4:69:THR:HG22	1.55	0.86
25:D3:27:ASN:OD1	25:D3:31:LYS:NZ	2.09	0.86
3:S1:35:PRO:HA	3:S1:41:ARG:HH21	1.39	0.86
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.58	0.86
63:n7:3:LYS:HE3	63:n7:5:LEU:HD21	1.58	0.86
36:5:1318:A:OP1	52:m6:18:ARG:NH2	2.08	0.86
36:5:1833:G:H21	75:o9:4:GLN:HE21	1.18	0.86
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.58	0.86
78:Q2:100:LYS:H	78:Q2:100:LYS:HE2	1.40	0.86
36:1:1898:G:OP2	86:1:3928:OHX:N4	2.09	0.85
10:s8:138:ASN:HA	10:s8:141:ARG:HD3	1.58	0.85
20:c8:145:ARG:HG3	35:sM:68:ARG:HH22	1.41	0.85
45:L8:101:THR:HG22	45:L8:104:GLU:H	1.41	0.85
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	1.57	0.85
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.09	0.85
4:s2:108:ASN:O	4:s2:108:ASN:ND2	2.09	0.85
9:s7:117:THR:HG22	9:s7:120:ALA:H	1.40	0.85
36:1:356:C:OP2	86:1:4141:OHX:N1	2.09	0.85
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.40	0.85
38:8:16:G:O6	86:8:218:OHX:N6	2.10	0.85
1:6:280:U:OP2	60:n4:113:LYS:NZ	2.10	0.85
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.10	0.85
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.10	0.85
36:1:2818:U:H6	36:1:2818:U:H5'	1.41	0.85
67:o1:46:THR:HG23	67:o1:47:ASP:H	1.42	0.85
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.58	0.84
2:S0:162:CYS:SG	2:S0:163:ASN:N	2.49	0.84
36:1:1362:G:H4'	44:L7:159:GLN:O	1.77	0.84
36:5:1471:U:OP1	55:m9:5:ARG:NH2	2.09	0.84
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.09	0.84
65:n9:14:ARG:HH12	65:n9:18:ARG:HH11	1.24	0.84
78:q2:12:CYS:SG	78:q2:17:CYS:HB2	2.17	0.84
1:2:868:G:OP1	15:C3:121:ARG:NH1	2.09	0.84
8:S6:192:ALA:HB1	8:S6:196:ARG:HH12	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C1:95:PRO:O	13:C1:98:ASN:N	2.10	0.84
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.57	0.84
1:2:701:U:H3	1:2:737:A:H61	1.24	0.84
36:1:3344:A:H2	36:1:3361:G:H21	1.20	0.84
36:5:287:G:OP1	51:m5:179:LYS:NZ	2.10	0.84
53:m7:30:ARG:HA	53:m7:119:VAL:HG11	1.59	0.84
17:c5:44:ARG:NH2	17:c5:82:ASN:O	2.09	0.84
24:d2:55:ASP:O	24:d2:57:ARG:N	2.11	0.84
36:5:3153:U:H4'	36:5:3154:C:H5'	1.57	0.84
1:2:40:A:OP1	11:S9:3:ARG:NH1	2.11	0.84
15:C3:114:ARG:HG2	15:C3:114:ARG:HH11	1.41	0.84
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.10	0.83
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.11	0.83
1:2:740:A:H2'	1:2:741:C:H5''	1.57	0.83
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.12	0.83
46:L9:22:SER:OG	46:L9:23:ARG:N	2.08	0.83
42:L5:54:ARG:NH1	42:L5:147:ASP:O	2.11	0.83
36:1:2828:G:OP1	47:M0:7:ARG:NH1	2.10	0.83
36:5:2201:G:H21	39:l2:224:THR:HG21	1.43	0.83
1:2:1529:C:OP1	7:S5:112:ARG:NH1	2.12	0.83
36:1:3151:U:OP2	40:L3:132:LYS:NZ	2.11	0.83
59:n3:48:ARG:HH11	59:n3:48:ARG:HG3	1.43	0.83
3:s1:72:ASP:OD1	16:c4:114:ARG:NH1	2.12	0.83
36:5:1239:C:H42	36:5:1249:G:H1	1.27	0.83
36:1:1064:A:N6	36:1:1096:U:O4	2.12	0.83
36:1:1233:G:H1	36:1:1255:C:H42	1.26	0.83
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.11	0.83
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.44	0.82
40:L3:188:ILE:HD12	40:L3:189:SER:H	1.44	0.82
7:s5:35:GLN:O	7:s5:37:GLN:N	2.11	0.82
15:c3:40:TYR:HB3	15:c3:45:LEU:HD12	1.58	0.82
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.12	0.82
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.60	0.82
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.62	0.82
28:D6:79:ILE:HA	28:D6:84:VAL:HB	1.61	0.82
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.61	0.82
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.10	0.82
53:M7:32:THR:HG21	53:M7:87:SER:HB3	1.60	0.82
54:M8:71:LEU:HD13	54:M8:99:THR:HG21	1.61	0.82
78:Q2:73:GLU:OE2	78:Q2:80:ARG:NH2	2.12	0.82
2:s0:9:LEU:HD11	2:s0:14:ALA:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2836:C:H5	36:1:2852:C:H42	1.24	0.82
1:2:1331:A:OP1	19:C7:45:ARG:NH2	2.12	0.82
1:6:990:C:OP2	86:6:2120:OHX:N2	2.12	0.82
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.11	0.82
1:2:471:A:OP2	86:2:2077:OHX:N4	2.12	0.82
11:s9:64:GLU:OE1	11:s9:69:ARG:NH2	2.12	0.82
36:5:2439:A:H61	36:5:2508:U:H3	1.24	0.82
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.11	0.82
12:C0:27:PHE:HB3	12:C0:40:LEU:HD22	1.61	0.82
1:6:902:G:N1	16:c4:51:ASP:OD1	2.10	0.82
1:6:1385:G:N7	86:6:2121:OHX:N6	2.27	0.82
35:SM:23:LYS:H	35:SM:23:LYS:HD2	1.44	0.81
1:6:471:A:OP2	86:6:2102:OHX:N5	2.13	0.81
36:5:510:G:O6	86:5:4023:OHX:N2	2.13	0.81
1:2:140:A:N6	1:2:281:G:OP1	2.12	0.81
36:1:1015:U:O4	36:1:1035:G:N1	2.13	0.81
9:S7:131:PHE:O	9:S7:133:THR:N	2.13	0.81
4:s2:142:GLY:HA2	23:d1:1:MET:HE1	1.61	0.81
27:d5:85:LYS:HG3	27:d5:86:GLU:H	1.43	0.81
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.12	0.81
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.13	0.81
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.61	0.81
60:n4:97:LYS:HG3	60:n4:98:PRO:HD2	1.60	0.81
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.42	0.81
36:5:2741:C:HO2'	78:q2:20:HIS:HD1	0.89	0.81
37:3:4:U:H2'	37:3:5:G:C8	2.16	0.81
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.13	0.81
1:6:885:G:H21	16:c4:123:SER:HB2	1.45	0.81
1:6:1479:A:OP1	21:c9:57:ARG:NH1	2.13	0.81
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.62	0.81
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.63	0.81
37:3:52:G:H21	48:M1:9:MET:HE1	1.46	0.81
67:o1:75:ILE:HG12	67:o1:93:VAL:HG13	1.61	0.81
16:C4:81:VAL:H	16:C4:115:ILE:HG22	1.46	0.81
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.45	0.80
1:6:754:A:N6	1:6:793:A:N7	2.30	0.80
36:5:361:A:OP1	73:o7:24:ARG:NH1	2.13	0.80
36:1:1951:C:H42	36:1:2095:G:H1	1.26	0.80
36:1:2940:A:N7	40:L3:2:SER:N	2.29	0.80
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.14	0.80
1:6:1000:C:N4	1:6:1003:A:OP2	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:75:G:H5''	49:m3:58:VAL:HG13	1.63	0.80
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.15	0.80
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.15	0.80
1:2:223:U:H3	1:2:838:G:H1	1.28	0.80
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.15	0.80
36:1:1565:G:N2	36:1:1574:C:O2	2.14	0.80
36:5:25:U:O4	86:5:3907:OHX:N6	2.15	0.80
1:2:823:G:H3'	1:2:824:G:H8	1.46	0.80
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.14	0.80
18:C6:58:ASP:O	18:C6:60:PHE:N	2.13	0.80
19:c7:104:ASN:O	19:c7:106:THR:N	2.15	0.80
36:5:2996:U:H4'	36:5:2996:U:OP1	1.81	0.80
47:m0:174:THR:HG23	47:m0:175:ASN:O	1.81	0.80
1:2:895:G:H1	1:2:917:U:H3	1.28	0.80
1:2:1202:A:OP1	86:2:2112:OHX:N1	2.14	0.80
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.15	0.80
1:2:1488:G:H3'	1:2:1515:A:H61	1.46	0.80
1:2:1592:A:H2'	1:2:1593:A:H8	1.47	0.80
1:2:237:C:H5''	1:2:238:U:H5'	1.64	0.79
1:6:1126:G:OP1	77:q1:15:ARG:NH1	2.14	0.79
82:p0:67:LEU:HD11	82:p0:74:GLU:HB2	1.63	0.79
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.15	0.79
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.64	0.79
22:d0:53:LYS:HB2	22:d0:92:ASP:HB2	1.65	0.79
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.13	0.79
24:D2:15:ASN:HD21	24:D2:71:LYS:HA	1.48	0.79
34:SR:161:LYS:O	34:SR:161:LYS:HG2	1.81	0.79
36:1:1233:G:N2	36:1:1255:C:N3	2.29	0.79
13:c1:128:CYS:O	13:c1:129:ARG:HB3	1.82	0.79
26:d4:122:GLY:O	26:d4:125:LEU:N	2.15	0.79
36:1:300:G:O6	86:1:4150:OHX:N1	2.15	0.79
36:1:924:G:OP1	86:1:4143:OHX:N5	2.15	0.79
86:1:4079:OHX:N1	72:O6:28:TYR:O	2.15	0.79
42:L5:294:ALA:HB1	47:M0:217:PHE:HB3	1.65	0.79
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.64	0.79
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.16	0.79
3:s1:154:SER:O	3:s1:154:SER:OG	1.97	0.79
36:5:272:G:OP2	86:5:4074:OHX:N6	2.16	0.79
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.15	0.79
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.47	0.79
43:l6:51:ARG:NH1	50:m4:114:ASP:OD2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:p0:198:PRO:HG2	82:p0:201:ILE:H	1.47	0.79
1:2:190:C:N4	1:2:196:G:O6	2.15	0.79
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.16	0.79
1:6:699:U:H3	1:6:739:G:H1	1.29	0.79
1:6:895:G:H1	1:6:917:U:H3	1.25	0.79
1:2:741:C:O2	9:S7:107:ARG:NH1	2.15	0.79
36:1:3166:C:H42	36:1:3284:G:H1	1.29	0.79
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.48	0.79
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.16	0.79
3:s1:123:ALA:HB2	3:s1:165:ARG:HG2	1.65	0.78
46:l9:20:ILE:HG12	46:l9:25:VAL:HG22	1.65	0.78
1:2:1291:G:O5'	1:2:1291:G:H8	1.65	0.78
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.64	0.78
48:M1:139:THR:HG22	48:M1:147:THR:HA	1.63	0.78
1:6:578:U:H4'	1:6:579:A:H5'	1.64	0.78
68:O2:81:ASP:O	68:O2:84:THR:HG23	1.83	0.78
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.64	0.78
60:n4:47:ARG:HG2	60:n4:54:LEU:HD12	1.63	0.78
1:2:1105:C:H41	25:D3:4:GLY:HA2	1.48	0.78
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.16	0.78
34:sR:52:GLN:HG2	34:sR:53:LYS:HG3	1.63	0.78
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.66	0.78
36:5:2207:A:H62	36:5:2236:G:H1	1.31	0.78
1:2:9:U:O4	86:2:2154:OHX:N6	2.17	0.78
1:2:788:A:OP2	6:S4:108:ARG:NH1	2.16	0.78
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.17	0.78
71:O5:71:LYS:HB3	62:n6:125:LYS:HD2	1.66	0.78
12:c0:21:VAL:HB	12:c0:66:TYR:HB2	1.64	0.78
40:l3:139:GLN:O	40:l3:141:GLY:N	2.16	0.78
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.17	0.78
36:1:1363:A:OP2	86:1:4043:OHX:N6	2.17	0.78
38:4:62:C:O2	86:4:230:OHX:N5	2.16	0.78
8:s6:126:ASP:OD1	8:s6:127:THR:N	2.17	0.78
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.17	0.78
86:1:3955:OHX:N3	44:L7:217:PRO:O	2.17	0.78
36:5:3274:A:H3'	36:5:3275:U:C5'	2.13	0.78
36:1:1466:G:O6	86:1:3876:OHX:N4	2.16	0.77
46:L9:75:VAL:HA	46:L9:78:MET:HG3	1.65	0.77
78:Q2:17:CYS:HG	78:Q2:74:CYS:HG	1.25	0.77
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.24	0.77
82:p0:30:VAL:HG13	82:p0:185:LEU:HD13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.65	0.77
36:1:1740:U:H1'	36:1:1741:A:H2	1.49	0.77
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.49	0.77
36:5:155:G:H1'	72:o6:26:ILE:HD12	1.65	0.77
36:5:658:G:OP1	86:5:4092:OHX:N5	2.18	0.77
39:l2:3:ARG:HB2	39:l2:207:VAL:HG12	1.65	0.77
1:2:1203:A:OP2	86:2:2112:OHX:N5	2.18	0.77
1:6:339:C:OP2	10:s8:10:LYS:NZ	2.17	0.77
36:5:2814:G:OP1	41:l4:73:ARG:NH2	2.17	0.77
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.15	0.77
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.65	0.77
19:c7:25:THR:OG1	19:c7:31:ASN:ND2	2.18	0.77
42:l5:279:LYS:HD2	42:l5:282:ARG:HH12	1.48	0.77
4:S2:90:THR:HG22	4:S2:92:ALA:H	1.49	0.77
8:S6:164:LYS:N	8:S6:167:LYS:O	2.14	0.77
36:1:3376:A:OP2	86:1:3903:OHX:N5	2.18	0.77
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.66	0.77
36:5:1878:G:OP1	86:5:3958:OHX:N5	2.17	0.77
51:m5:96:ARG:HG2	51:m5:96:ARG:HH11	1.50	0.77
10:S8:89:GLU:O	10:S8:93:THR:OG1	2.02	0.77
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.65	0.77
11:s9:129:ILE:HG12	11:s9:134:ILE:HG12	1.67	0.77
14:C2:60:VAL:HG23	14:C2:87:PRO:HG2	1.66	0.77
47:m0:171:TRP:O	47:m0:174:THR:HG22	1.84	0.77
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.66	0.77
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.67	0.77
37:3:17:A:OP1	42:L5:2:ALA:N	2.18	0.77
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.15	0.77
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.50	0.76
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.67	0.76
56:N0:82:ASP:OD1	56:N0:87:THR:HB	1.85	0.76
59:N3:40:LYS:HG3	59:N3:57:MET:HG2	1.67	0.76
73:O7:87:SER:O	86:O7:104:OHX:N3	2.18	0.76
1:6:397:A:O3'	10:s8:50:GLY:HA2	1.85	0.76
1:6:1392:U:OP1	19:c7:59:LYS:NZ	2.18	0.76
36:5:1070:U:O4	86:5:4111:OHX:N6	2.17	0.76
6:S4:187:ARG:O	6:S4:189:LEU:N	2.19	0.76
44:L7:25:GLN:HG2	44:L7:29:GLU:HG2	1.67	0.76
38:8:74:U:O2	86:8:223:OHX:N5	2.17	0.76
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.18	0.76
1:2:1642:G:O6	86:2:2024:OHX:N6	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.67	0.76
36:1:155:G:H1'	72:O6:26:ILE:HD13	1.68	0.76
38:4:79:A:H2'	38:4:80:A:H1'	1.67	0.76
22:d0:105:GLN:HA	22:d0:108:ILE:HG12	1.66	0.76
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.67	0.76
71:o5:101:THR:HG22	71:o5:104:GLN:HB2	1.65	0.76
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.19	0.76
36:1:562:C:H2'	36:1:563:U:H6	1.50	0.76
67:o1:44:MET:O	67:o1:46:THR:N	2.18	0.76
72:o6:59:ASP:O	72:o6:63:ASN:ND2	2.16	0.76
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.66	0.76
34:SR:70:ASP:OD2	34:SR:155:ARG:NH2	2.18	0.76
36:1:807:A:H61	36:1:934:G:H22	1.33	0.76
36:1:3166:C:N3	36:1:3284:G:N2	2.30	0.76
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.19	0.76
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.17	0.76
13:C1:6:THR:HB	13:C1:9:SER:HB3	1.68	0.76
36:1:2185:G:O2'	36:1:2314:U:OP2	2.02	0.76
1:6:1462:G:N7	20:c8:143:ARG:NH2	2.34	0.76
13:C1:139:VAL:HG12	13:C1:140:VAL:H	1.49	0.76
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.19	0.76
42:L5:68:THR:HG22	42:L5:70:THR:H	1.48	0.76
39:l2:28:LYS:HB3	39:l2:123:ARG:HD3	1.68	0.76
29:D7:29:ARG:HH11	29:D7:29:ARG:HG3	1.50	0.76
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.03	0.76
40:L3:227:GLU:HG2	40:L3:270:ARG:HD3	1.67	0.76
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.19	0.76
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.18	0.76
66:O0:29:SER:HA	66:O0:32:LYS:HD3	1.68	0.76
1:6:159:U:O2'	8:s6:87:ARG:NH1	2.19	0.76
86:5:4002:OHX:N3	44:l7:217:PRO:O	2.19	0.76
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.18	0.76
1:2:559:C:N4	1:2:586:G:O6	2.15	0.76
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.68	0.76
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.17	0.76
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.18	0.76
53:m7:32:THR:HG21	53:m7:87:SER:HB3	1.67	0.76
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.50	0.75
1:6:538:A:H2	1:6:540:G:H22	1.31	0.75
36:5:1065:A:N6	65:n9:26:THR:O	2.18	0.75
65:n9:20:GLY:O	65:n9:21:ILE:HB	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1592:A:H2'	1:2:1593:A:C8	2.21	0.75
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.68	0.75
34:sR:93:ASP:HB2	34:sR:100:TYR:HE1	1.51	0.75
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.65	0.75
50:m4:113:THR:HG23	50:m4:116:GLU:H	1.51	0.75
55:m9:35:ALA:O	55:m9:37:SER:N	2.17	0.75
28:D6:10:ARG:HB2	28:D6:34:LYS:HG3	1.68	0.75
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.50	0.75
1:6:219:A:N6	1:6:843:U:O2	2.19	0.75
36:5:90:C:H2'	36:5:91:G:H5'	1.67	0.75
36:1:1507:G:C8	53:M7:129:THR:HG22	2.20	0.75
46:L9:90:MET:HE3	46:L9:181:VAL:HG23	1.68	0.75
53:m7:25:SER:O	53:m7:29:THR:HG23	1.85	0.75
74:o8:44:LYS:HG2	74:o8:53:THR:HB	1.68	0.75
1:6:895:G:H21	16:c4:38:THR:HG21	1.51	0.75
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.68	0.75
40:l3:37:ARG:HG2	40:l3:187:SER:H	1.49	0.75
40:l3:76:VAL:HG11	40:l3:323:MET:HE3	1.68	0.75
39:l2:70:ARG:HH11	39:l2:72:ARG:HE	1.34	0.75
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.68	0.75
42:L5:56:THR:O	42:L5:58:LYS:N	2.18	0.75
50:M4:105:GLN:NE2	52:M6:198:GLY:O	2.20	0.75
48:m1:94:ARG:O	48:m1:96:PHE:N	2.18	0.75
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.69	0.75
36:5:1555:U:O4	36:5:1557:A:N6	2.19	0.75
47:m0:43:VAL:HG21	47:m0:197:VAL:HB	1.69	0.75
81:m2:120:UNK:O	81:m2:122:UNK:N	2.20	0.75
1:6:830:U:H2'	1:6:831:U:H5'	1.68	0.75
7:s5:200:ASN:HB2	7:s5:208:SER:HB3	1.68	0.75
86:5:3943:OHX:N2	86:5:4233:OHX:N4	2.35	0.75
1:2:542:A:H8	1:2:543:C:H5'	1.52	0.74
70:O4:71:THR:HG22	70:O4:78:GLY:H	1.52	0.74
1:6:1401:A:O3'	19:c7:10:LYS:NZ	2.20	0.74
3:S1:157:GLN:O	3:S1:159:SER:N	2.19	0.74
36:1:1758:G:H1	36:1:1767:C:H42	1.35	0.74
36:1:2169:G:O6	86:1:3909:OHX:N4	2.20	0.74
49:M3:187:ALA:HA	49:M3:190:LYS:HB3	1.67	0.74
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.52	0.74
1:6:301:A:OP2	86:6:2092:OHX:N1	2.20	0.74
36:5:2584:G:H5'	36:5:2585:G:OP2	1.87	0.74
64:n8:77:LYS:O	64:n8:79:TRP:N	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.69	0.74
11:S9:90:LYS:HB2	11:S9:95:TYR:CD1	2.22	0.74
20:c8:117:LYS:HE2	20:c8:128:PHE:HB2	1.68	0.74
33:e1:119:ARG:NH2	33:e1:120:GLU:O	2.21	0.74
86:5:3943:OHX:N1	86:5:4233:OHX:N3	2.35	0.74
37:7:73:C:O2	56:n0:13:ARG:NH1	2.19	0.74
74:o8:18:ALA:O	74:o8:20:VAL:N	2.20	0.74
36:1:1844:C:H2'	36:1:1845:G:H5''	1.68	0.74
26:D4:8:ARG:NH1	26:D4:26:ASP:OD1	2.21	0.74
36:1:1507:G:N7	53:M7:129:THR:HG22	2.03	0.74
36:1:1952:G:H3'	36:1:1953:G:H5''	1.70	0.74
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.21	0.74
1:6:901:G:N2	16:c4:54:GLU:OE1	2.21	0.74
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.69	0.74
36:1:1454:A:H5''	36:1:1455:U:H5'	1.70	0.74
11:s9:157:ASP:OD1	11:s9:158:PHE:N	2.20	0.74
36:5:1414:G:O6	86:5:4147:OHX:N1	2.19	0.74
86:5:3943:OHX:N1	86:5:4233:OHX:N4	2.35	0.74
40:l3:185:GLY:O	40:l3:191:LYS:HE2	1.88	0.74
8:S6:55:GLY:HA3	8:S6:63:MET:HE3	1.69	0.74
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.70	0.74
86:2:2032:OHX:N4	86:2:2145:OHX:N2	2.36	0.74
3:S1:61:LEU:HG	3:S1:64:ARG:HH21	1.53	0.74
7:S5:123:VAL:O	27:D5:58:ARG:NH1	2.21	0.74
1:6:25:C:O2	86:6:2107:OHX:N5	2.21	0.74
1:6:1488:G:O2'	1:6:1494:C:O2	2.05	0.74
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.20	0.74
36:5:2818:U:H5'	36:5:2818:U:H6	1.53	0.74
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	1.67	0.74
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.21	0.74
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.16	0.74
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.68	0.74
1:6:161:U:OP2	8:s6:87:ARG:NH2	2.21	0.74
1:6:770:A:OP2	86:6:2138:OHX:N3	2.20	0.74
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.21	0.74
86:5:3943:OHX:N5	86:5:4233:OHX:N6	2.36	0.74
1:6:1670:G:N7	86:6:2189:OHX:N4	2.36	0.74
36:5:980:A:H2'	36:5:981:U:C2	2.22	0.74
36:5:2522:G:H1	39:l2:70:ARG:HH22	1.33	0.74
8:S6:70:PRO:O	8:S6:98:ARG:NH1	2.13	0.73
36:1:1196:C:O2	86:1:3991:OHX:N2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:8:ARG:O	57:N1:11:THR:OG1	2.06	0.73
1:6:542:A:OP1	1:6:542:A:H2'	1.87	0.73
22:d0:35:GLU:OE1	22:d0:89:ARG:NH1	2.20	0.73
1:2:565:C:O2	86:2:2040:OHX:N5	2.20	0.73
1:6:822:U:H2'	1:6:823:G:H5''	1.68	0.73
2:s0:139:VAL:HG23	4:s2:62:PRO:HG3	1.70	0.73
26:d4:29:HIS:HB3	26:d4:32:ARG:HB2	1.68	0.73
36:5:3115:C:OP1	46:l9:62:ARG:NH2	2.21	0.73
15:C3:67:THR:O	15:C3:69:ASN:N	2.20	0.73
49:M3:165:SER:O	49:M3:167:PHE:N	2.21	0.73
37:3:60:G:H2'	37:3:61:G:H8	1.53	0.73
1:6:151:G:H1	1:6:163:G:H1	1.36	0.73
1:6:1636:C:H4'	1:6:1637:C:H5'	1.69	0.73
10:s8:48:THR:HG21	10:s8:54:LYS:HD3	1.68	0.73
19:C7:27:ASP:OD1	34:SR:38:ARG:NH2	2.21	0.73
27:D5:55:PRO:O	27:D5:57:TYR:N	2.18	0.73
36:1:816:A:H5'	36:1:906:A:H61	1.53	0.73
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.22	0.73
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.21	0.73
1:6:1362:U:H1'	1:6:1363:U:H5	1.52	0.73
2:s0:118:PRO:HG2	2:s0:141:ILE:HD13	1.70	0.73
3:S1:181:LEU:H	3:S1:181:LEU:HD13	1.54	0.73
5:S3:168:ILE:HD13	5:S3:187:LYS:HE3	1.69	0.73
10:S8:188:GLU:OE2	13:C1:15:LYS:NZ	2.19	0.73
44:L7:77:VAL:HG22	57:N1:139:ARG:HG2	1.69	0.73
12:c0:87:VAL:O	12:c0:89:ALA:N	2.20	0.73
37:7:110:G:OP2	42:l5:279:LYS:NZ	2.15	0.73
38:8:68:G:O6	86:8:229:OHX:N6	2.22	0.73
41:l4:93:MET:H	41:l4:93:MET:HE2	1.51	0.73
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.71	0.73
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.53	0.73
3:s1:144:ARG:HG2	3:s1:206:PRO:HB3	1.69	0.73
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.69	0.73
48:m1:60:ARG:NH1	78:q2:104:LEU:O	2.22	0.73
1:2:712:G:N1	1:2:726:C:O2	2.20	0.73
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.70	0.73
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.70	0.73
36:5:3364:C:OP1	86:5:3943:OHX:N1	2.22	0.73
39:l2:70:ARG:HD2	39:l2:72:ARG:HE	1.54	0.73
22:D0:42:VAL:HG21	22:D0:55:PRO:HD3	1.71	0.73
1:6:826:U:O4	86:6:2065:OHX:N3	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1750:A:OP2	74:o8:42:LYS:NZ	2.21	0.73
36:1:1878:G:OP1	86:1:3924:OHX:N4	2.22	0.73
1:6:149:C:OP1	26:d4:121:THR:OG1	2.07	0.73
10:s8:110:ARG:NH2	36:5:3354:U:O4	2.22	0.73
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	1.71	0.72
36:1:439:C:H3'	36:1:440:A:C8	2.20	0.72
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.21	0.72
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.70	0.72
56:N0:8:GLN:HG2	56:N0:62:ASN:HB2	1.71	0.72
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.70	0.72
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.71	0.72
12:C0:14:TYR:HE2	12:C0:21:VAL:HG22	1.53	0.72
70:O4:99:LYS:O	70:O4:103:LYS:HG2	1.90	0.72
34:sR:38:ARG:HG2	34:sR:67:ILE:HG23	1.70	0.72
10:S8:36:THR:HB	10:S8:57:ALA:O	1.90	0.72
11:S9:96:VAL:HA	11:S9:99:LEU:HD23	1.71	0.72
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.23	0.72
36:1:1887:A:OP2	86:1:3889:OHX:N4	2.22	0.72
1:6:1234:A:H4'	33:e1:146:SER:HB3	1.70	0.72
1:6:1767:G:OP1	1:6:1770:U:H4'	1.88	0.72
36:5:2975:U:OP1	86:5:4089:OHX:N3	2.23	0.72
51:m5:84:PRO:HA	51:m5:87:GLN:HG3	1.70	0.72
63:n7:36:HIS:CD2	63:n7:74:VAL:HG11	2.25	0.72
1:2:579:A:C8	5:S3:178:ARG:HD2	2.24	0.72
36:1:3195:U:O2'	36:1:3197:G:N2	2.22	0.72
36:1:3358:U:H2'	36:1:3359:A:O4'	1.90	0.72
40:L3:139:GLN:O	40:L3:141:GLY:N	2.22	0.72
48:M1:37:LEU:HD12	48:M1:67:VAL:HG23	1.71	0.72
7:s5:161:ASP:OD2	30:d8:42:ARG:NH1	2.22	0.72
86:5:3943:OHX:N2	86:5:4233:OHX:N6	2.36	0.72
3:S1:181:LEU:O	3:S1:184:LEU:N	2.22	0.72
36:1:371:G:O6	86:1:4179:OHX:N4	2.23	0.72
37:3:60:G:H2'	37:3:61:G:C8	2.24	0.72
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.72	0.72
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.22	0.72
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	1.71	0.72
1:2:1067:C:H2'	1:2:1068:C:H6	1.55	0.72
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.23	0.72
6:S4:182:TYR:HB2	6:S4:228:ILE:HD13	1.72	0.72
36:1:1308:A:C8	36:1:1308:A:OP2	2.42	0.72
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:71:SER:HB2	57:N1:91:LEU:O	1.90	0.72
58:N2:14:THR:HG23	58:N2:66:VAL:HG13	1.71	0.72
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.76	0.72
3:s1:144:ARG:NH2	3:s1:207:LEU:O	2.23	0.72
7:s5:144:GLU:OE1	7:s5:225:ARG:NH1	2.21	0.72
26:d4:29:HIS:O	26:d4:31:ASN:N	2.22	0.72
36:5:23:A:OP1	86:5:3907:OHX:N4	2.22	0.72
36:5:343:U:OP2	86:5:3925:OHX:N3	2.22	0.72
36:5:1565:G:N1	36:5:1574:C:N3	2.37	0.72
41:l4:288:ARG:O	41:l4:291:ASN:N	2.23	0.72
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.71	0.72
1:6:485:A:H61	1:6:502:U:H3	1.38	0.72
57:n1:71:SER:HB3	57:n1:92:ARG:HA	1.72	0.72
15:C3:131:THR:HG22	15:C3:132:VAL:HG13	1.72	0.72
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.21	0.72
1:6:1563:C:OP1	21:c9:84:LYS:NZ	2.22	0.72
38:8:21:C:OP1	41:l4:193:LYS:NZ	2.22	0.72
62:n6:36:SER:HB2	62:n6:37:LYS:HE2	1.72	0.72
1:2:45:U:O2'	1:2:46:A:H2'	1.90	0.72
86:2:2032:OHX:N6	86:2:2145:OHX:N5	2.38	0.72
20:C8:117:LYS:HE2	20:C8:128:PHE:HB2	1.70	0.72
36:1:1808:G:O6	86:1:3979:OHX:N3	2.22	0.72
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.22	0.72
42:L5:40:HIS:HD2	42:L5:42:ALA:H	1.37	0.72
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.72	0.72
62:n6:120:GLN:CD	62:n6:126:LEU:HA	2.15	0.72
71:O5:10:ARG:NH1	71:O5:60:GLU:OE1	2.22	0.72
18:c6:82:ARG:NH1	18:c6:114:ARG:O	2.23	0.72
36:5:1170:A:OP2	86:5:4002:OHX:N4	2.23	0.72
36:5:1677:G:OP2	58:n2:103:TYR:OH	2.05	0.72
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	1.72	0.72
59:n3:120:LYS:H	59:n3:137:VAL:HG23	1.54	0.72
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.23	0.71
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.72	0.71
86:5:4190:OHX:N2	72:o6:28:TYR:O	2.23	0.71
45:l8:100:GLU:OE1	45:l8:108:ARG:NH1	2.23	0.71
67:o1:44:MET:HB3	67:o1:77:ARG:NH1	2.04	0.71
36:5:1213:G:H4'	56:n0:90:MET:HG2	1.72	0.71
39:l2:64:ARG:HH22	45:l8:38:GLN:HA	1.53	0.71
68:o2:123:LYS:HA	68:o2:126:LEU:HD12	1.72	0.71
73:o7:62:GLY:O	86:o7:502:OHX:N3	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.23	0.71
1:6:823:G:H2'	1:6:824:G:O4'	1.90	0.71
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	1.71	0.71
1:2:583:C:OP1	86:2:2027:OHX:N3	2.23	0.71
36:1:679:U:O4	86:1:3970:OHX:N1	2.23	0.71
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.70	0.71
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.09	0.71
36:5:1725:C:H5''	79:q3:36:ARG:HH22	1.54	0.71
36:5:2403:G:N2	36:5:2404:A:N7	2.37	0.71
47:m0:85:PHE:HA	47:m0:140:THR:HG22	1.73	0.71
86:2:2032:OHX:N4	86:2:2145:OHX:N1	2.38	0.71
86:2:2032:OHX:N3	86:2:2145:OHX:N5	2.38	0.71
28:D6:44:ILE:H	28:D6:44:ILE:HD12	1.55	0.71
36:1:2107:A:H2	36:1:3344:A:C8	2.09	0.71
41:L4:44:LYS:HB3	41:L4:47:ARG:HH11	1.55	0.71
72:O6:4:LYS:HD2	72:O6:14:GLY:HA3	1.73	0.71
76:Q0:127:LEU:HD22	76:Q0:128:LYS:H	1.54	0.71
1:6:967:A:OP2	15:c3:124:ARG:NH2	2.24	0.71
36:5:2967:A:H5''	39:l2:213:GLY:HA3	1.72	0.71
53:m7:48:LEU:HD22	53:m7:88:VAL:HG13	1.73	0.71
1:2:1542:G:N2	1:2:1569:A:OP2	2.23	0.71
7:S5:35:GLN:O	7:S5:37:GLN:N	2.23	0.71
13:C1:6:THR:O	13:C1:8:GLN:N	2.23	0.71
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.22	0.71
38:4:70:G:O6	86:O7:104:OHX:N4	2.23	0.71
36:5:150:A:H2'	36:5:151:A:H5'	1.73	0.71
36:5:1097:G:OP1	57:n1:129:LYS:NZ	2.18	0.71
36:5:1940:G:H21	36:5:3362:A:H8	1.36	0.71
53:m7:105:LYS:HB3	53:m7:107:LEU:HD13	1.72	0.71
1:2:1587:A:O2'	7:S5:104:ASN:OD1	2.08	0.71
1:6:1680:G:O6	86:6:2188:OHX:N4	2.23	0.71
23:d1:41:GLU:CD	23:d1:41:GLU:H	1.98	0.71
36:5:838:G:O6	79:q3:4:ARG:NH2	2.24	0.71
1:2:1672:G:H2'	1:2:1673:G:C8	2.25	0.71
1:2:1720:G:O6	86:2:2083:OHX:N5	2.23	0.71
11:S9:163:PRO:O	11:S9:165:GLY:N	2.24	0.71
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.73	0.71
1:6:78:A:C8	8:s6:154:ARG:HD3	2.26	0.71
1:6:915:A:OP1	86:6:2070:OHX:N6	2.23	0.71
36:5:498:A:H5'	69:o3:86:ARG:HH12	1.55	0.71
2:S0:167:LYS:HB3	2:S0:168:HIS:HD2	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:143:GLU:O	86:L4:403:OHX:N2	2.24	0.71
1:6:800:U:H2'	1:6:801:G:H8	1.55	0.71
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.23	0.71
36:5:3055:U:O2'	36:5:3057:U:OP1	2.08	0.71
40:l3:4:ARG:HG3	40:l3:4:ARG:HH11	1.56	0.71
47:m0:76:MET:HE1	47:m0:138:VAL:HG11	1.73	0.71
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.55	0.71
3:S1:125:VAL:HG21	3:S1:173:THR:HG22	1.72	0.71
20:C8:82:PRO:O	20:C8:84:TRP:N	2.23	0.71
10:s8:62:THR:HA	10:s8:76:THR:O	1.90	0.71
17:C5:81:ARG:HH12	17:C5:120:SER:HB3	1.56	0.70
36:1:1597:C:H2'	36:1:1598:G:H8	1.56	0.70
1:6:1698:G:O2'	1:6:1699:G:O5'	2.08	0.70
3:s1:113:MET:HE2	3:s1:142:PHE:HE2	1.55	0.70
36:5:2227:C:H2'	36:5:2228:A:H5''	1.73	0.70
36:5:3343:G:H21	36:5:3362:A:H2	1.38	0.70
35:SM:79:SER:HA	35:SM:82:THR:HG23	1.73	0.70
36:1:2248:C:OP2	86:1:3879:OHX:N3	2.24	0.70
1:6:75:U:O2'	1:6:76:A:O4'	2.09	0.70
1:6:1460:A:OP2	35:sM:68:ARG:NH2	2.23	0.70
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.73	0.70
1:2:1290:U:H2'	1:2:1291:G:C8	2.26	0.70
1:2:1291:G:H22	1:2:1324:G:H1	1.40	0.70
1:2:1745:G:O6	86:2:2087:OHX:N6	2.25	0.70
48:M1:164:LYS:HE3	48:M1:171:VAL:HB	1.73	0.70
1:6:550:A:OP2	86:6:2049:OHX:N2	2.24	0.70
1:6:588:U:OP2	80:e0:26:LYS:NZ	2.20	0.70
15:c3:55:ARG:NH1	15:c3:56:ASP:OD1	2.23	0.70
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.73	0.70
86:2:2032:OHX:N3	86:2:2145:OHX:N1	2.39	0.70
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.72	0.70
36:1:25:U:O4	86:1:3868:OHX:N4	2.23	0.70
1:6:93:A:H1'	6:s4:3:ARG:HB3	1.73	0.70
41:l4:192:GLY:HA2	41:l4:195:ARG:HG3	1.73	0.70
73:o7:69:HIS:HB3	73:o7:72:ARG:HH21	1.56	0.70
34:SR:172:ALA:HB2	34:SR:202:LEU:HD13	1.73	0.70
36:1:269:G:H5''	51:M5:14:LYS:HE2	1.74	0.70
36:1:291:C:OP1	51:M5:68:ARG:NH1	2.24	0.70
36:1:2767:U:OP2	86:1:4132:OHX:N2	2.24	0.70
40:L3:171:LEU:O	86:L3:404:OHX:N6	2.24	0.70
42:L5:177:GLU:O	42:L5:179:ARG:N	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:155:ARG:HH21	56:N0:155:ARG:HG2	1.56	0.70
1:6:833:U:O4	86:6:2100:OHX:N5	2.24	0.70
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.74	0.70
31:d9:6:VAL:O	31:d9:8:PHE:N	2.23	0.70
1:2:1341:A:O2'	34:SR:102:ARG:NH2	2.24	0.70
1:2:1427:A:OP2	35:SM:93:ARG:NH1	2.24	0.70
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.55	0.70
51:M5:102:ALA:O	51:M5:106:VAL:HG12	1.90	0.70
1:6:1681:A:H2	1:6:1720:G:H21	1.38	0.70
36:5:781:G:OP1	54:m8:151:ARG:NH1	2.25	0.70
86:5:3943:OHX:N5	86:5:4233:OHX:N3	2.39	0.70
41:L4:156:LEU:HD23	41:L4:159:ILE:HD12	1.72	0.70
28:d6:26:CYS:HB2	28:d6:28:LYS:H	1.56	0.70
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.39	0.70
56:n0:137:ARG:HG2	56:n0:139:TYR:CE1	2.27	0.70
63:n7:27:LYS:HB3	63:n7:42:LEU:HB2	1.72	0.70
1:2:1649:G:N7	86:2:2052:OHX:N1	2.40	0.70
1:6:846:G:H2'	1:6:847:A:C8	2.27	0.70
36:5:1613:A:OP2	74:o8:46:ARG:NH2	2.25	0.70
47:m0:78:THR:OG1	47:m0:79:VAL:N	2.23	0.70
3:S1:110:LEU:HD11	3:S1:213:ARG:HD2	1.73	0.70
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.05	0.70
36:5:1345:G:N7	86:5:4066:OHX:N5	2.40	0.70
1:2:1557:U:OP2	1:2:1559:A:O2'	2.09	0.70
3:S1:51:SER:HA	3:S1:57:ALA:H	1.55	0.70
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.74	0.70
1:6:1330:G:H21	19:c7:8:THR:HG21	1.57	0.70
9:s7:30:SER:HB2	9:s7:34:LEU:HD12	1.74	0.70
36:5:824:C:H5''	39:l2:21:ARG:HD3	1.74	0.70
36:5:1662:G:O6	86:5:3920:OHX:N1	2.25	0.70
44:l7:88:ARG:HD2	44:l7:90:LYS:O	1.90	0.70
48:m1:60:ARG:HG3	48:m1:60:ARG:HH21	1.57	0.70
1:2:820:U:H2'	1:2:821:U:H4'	1.73	0.69
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.27	0.69
1:6:745:U:O4	9:s7:104:ARG:NH1	2.25	0.69
1:6:1565:C:OP1	20:c8:41:ARG:HD3	1.92	0.69
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.57	0.69
66:o0:53:LYS:HE3	66:o0:69:TYR:HE2	1.57	0.69
1:2:1585:U:N3	1:2:1611:A:H2	1.90	0.69
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	1.73	0.69
13:C1:138:ASN:O	13:C1:138:ASN:ND2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:23:LYS:H	34:SR:216:LYS:HE2	1.57	0.69
51:M5:106:VAL:HG11	51:M5:132:VAL:HG21	1.73	0.69
3:s1:160:HIS:O	3:s1:163:ALA:N	2.23	0.69
63:n7:135:ARG:HB3	63:n7:135:ARG:HH21	1.54	0.69
1:2:386:G:OP2	10:S8:25:ARG:NH2	2.25	0.69
34:SR:200:ASN:ND2	34:SR:240:VAL:O	2.24	0.69
36:1:3214:U:H2'	50:M4:121:MET:HE2	1.73	0.69
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.25	0.69
73:O7:88:ALA:O	86:O7:104:OHX:N1	2.24	0.69
78:Q2:50:PHE:O	86:Q2:503:OHX:N2	2.25	0.69
1:6:846:G:H2'	1:6:847:A:H8	1.56	0.69
36:5:96:G:OP1	49:m3:15:ARG:NH2	2.25	0.69
36:5:1765:U:H5'	55:m9:43:LYS:HZ3	1.57	0.69
36:5:2234:G:O6	86:5:3963:OHX:N1	2.24	0.69
47:m0:77:THR:HG22	47:m0:82:ARG:HA	1.74	0.69
1:2:1542:G:N2	1:2:1568:C:H1'	2.07	0.69
36:1:1919:G:N7	86:1:4011:OHX:N5	2.40	0.69
1:6:1130:G:OP2	86:6:2112:OHX:N1	2.24	0.69
36:5:1949:G:OP2	55:m9:135:LYS:NZ	2.25	0.69
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.25	0.69
37:7:19:C:N4	37:7:60:G:O6	2.19	0.69
42:15:95:TRP:CH2	42:l5:181:PRO:HD3	2.28	0.69
36:1:2233:A:OP2	86:1:4042:OHX:N5	2.25	0.69
1:6:922:G:H2'	1:6:923:A:C8	2.28	0.69
36:5:1355:A:H1'	36:5:1356:U:OP2	1.92	0.69
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.26	0.69
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.23	0.69
62:n6:91:ASN:OD1	62:n6:92:GLY:N	2.25	0.69
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.26	0.69
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.75	0.69
25:D3:51:GLY:HA2	25:D3:77:ILE:HG13	1.74	0.69
42:L5:22:ARG:HG2	42:L5:28:THR:OG1	1.91	0.69
2:s0:167:LYS:HD3	2:s0:168:HIS:H	1.58	0.69
36:5:115:A:OP1	51:m5:49:ARG:NH2	2.25	0.69
46:l9:73:SER:HA	46:l9:76:ASP:HB2	1.74	0.69
86:2:2032:OHX:N6	86:2:2145:OHX:N2	2.41	0.69
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.73	0.69
33:E1:144:CYS:HB3	33:E1:147:VAL:HG13	1.74	0.69
36:1:1015:U:O2'	36:1:1017:C:OP2	2.08	0.69
23:d1:15:ARG:NH1	23:d1:33:GLN:OE1	2.25	0.69
36:5:776:U:H5	36:5:2719:U:O2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:n0:70:THR:O	56:n0:70:THR:OG1	2.03	0.69
79:q3:6:LYS:HD3	79:q3:7:LYS:HE3	1.73	0.69
1:2:513:U:H2'	1:2:514:G:C8	2.27	0.69
1:2:1236:A:O4'	33:E1:138:ARG:NH2	2.24	0.69
36:1:2123:G:N7	86:1:4198:OHX:N2	2.41	0.69
41:L4:232:SER:OG	41:L4:233:LEU:N	2.24	0.69
65:N9:23:LYS:HD2	65:N9:24:PRO:HD3	1.74	0.69
1:6:230:C:N3	1:6:235:G:N2	2.34	0.69
1:6:484:C:H42	1:6:503:G:H22	1.40	0.69
5:s3:220:PRO:O	5:s3:221:SER:OG	2.11	0.69
7:s5:97:LEU:O	7:s5:99:MET:N	2.26	0.69
11:s9:146:PHE:O	11:s9:147:MET:HB2	1.93	0.69
16:c4:32:ASP:OD2	16:c4:34:SER:N	2.20	0.69
17:c5:18:ARG:NH2	17:c5:38:PRO:HG3	2.07	0.69
36:5:3139:A:OP1	40:l3:274:SER:OG	2.11	0.69
45:l8:161:GLU:OE1	51:m5:26:ARG:NH1	2.25	0.69
66:o0:9:SER:OG	66:o0:10:ILE:N	2.24	0.69
1:2:484:C:H42	1:2:503:G:H22	1.40	0.69
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.75	0.69
36:1:2107:A:H2	36:1:3344:A:H8	1.41	0.69
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.26	0.69
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.73	0.69
72:O6:70:ARG:HH11	72:O6:84:LYS:HD3	1.58	0.69
36:5:1757:A:OP1	58:n2:94:ARG:NH2	2.23	0.69
42:l5:268:GLU:O	42:l5:270:LYS:N	2.26	0.69
63:n7:95:VAL:HG23	63:n7:96:VAL:HG23	1.74	0.69
9:S7:96:ARG:NH1	9:S7:128:ASP:OD2	2.25	0.69
20:C8:128:PHE:HD2	35:SM:61:ILE:HG22	1.58	0.69
41:L4:226:GLU:OE2	41:L4:246:ARG:NH2	2.26	0.69
45:L8:71:VAL:HG22	45:L8:76:ALA:HB2	1.75	0.69
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.16	0.69
1:6:542:A:C8	1:6:543:C:H2'	2.27	0.69
1:6:1533:C:H4'	1:6:1539:G:N1	2.08	0.69
1:6:1649:G:N7	86:6:2109:OHX:N2	2.41	0.69
36:5:3279:A:H2'	36:5:3280:U:H5'	1.75	0.69
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.26	0.68
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.10	0.68
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.74	0.68
36:1:1454:A:OP2	86:1:4208:OHX:N6	2.26	0.68
36:1:2310:U:OP1	86:1:4138:OHX:N1	2.26	0.68
36:1:2794:G:N7	86:1:3931:OHX:N2	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:157:ARG:HG2	49:M3:158:ALA:H	1.58	0.68
1:6:1654:G:OP1	77:q1:21:ARG:NH1	2.25	0.68
7:s5:163:SER:HB2	30:d8:48:VAL:HG22	1.75	0.68
12:c0:50:THR:HG22	12:c0:55:VAL:HG22	1.75	0.68
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.74	0.68
34:sR:133:VAL:O	34:sR:141:LEU:N	2.25	0.68
72:O6:33:ALA:O	72:O6:34:SER:HB3	1.92	0.68
1:6:333:A:OP1	10:s8:31:ARG:NH2	2.26	0.68
1:6:1041:G:OP1	86:6:2174:OHX:N4	2.26	0.68
21:c9:127:ASN:OD1	21:c9:130:ARG:NH1	2.25	0.68
36:5:2732:G:OP2	86:5:4219:OHX:N1	2.25	0.68
1:2:1152:A:O2'	28:D6:85:ARG:HG3	1.94	0.68
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.22	0.68
14:C2:54:ARG:NE	33:E1:127:GLY:O	2.26	0.68
34:SR:238:ASP:OD2	34:SR:258:THR:OG1	2.11	0.68
37:3:49:G:O6	42:L5:58:LYS:NZ	2.19	0.68
1:6:1714:A:H2'	1:6:1715:G:O4'	1.93	0.68
17:c5:15:HIS:HB3	17:c5:22:LEU:HD13	1.73	0.68
36:5:560:G:H5'	50:m4:80:THR:HG21	1.73	0.68
36:5:3165:A:H61	36:5:3285:C:H42	1.40	0.68
38:8:79:A:H3'	38:8:80:A:C8	2.28	0.68
40:l3:35:ASP:OD2	40:l3:191:LYS:NZ	2.26	0.68
36:1:1230:G:H1	36:1:1279:C:H42	1.40	0.68
43:L6:154:LEU:HD23	43:L6:157:GLN:HB2	1.75	0.68
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.26	0.68
1:6:1508:U:O4	86:6:2054:OHX:N4	2.25	0.68
36:5:1405:U:OP2	68:o2:59:SER:OG	2.11	0.68
1:2:1349:G:H1	1:2:1376:C:H42	1.41	0.68
30:D8:36:THR:OG1	30:D8:37:SER:N	2.23	0.68
36:1:2104:A:OP2	55:M9:81:ARG:NH2	2.26	0.68
36:1:3050:U:OP2	86:1:4180:OHX:N4	2.26	0.68
36:1:3343:G:H21	36:1:3362:A:H2	1.41	0.68
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.29	0.68
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.58	0.68
71:O5:71:LYS:HA	71:O5:71:LYS:HZ2	1.59	0.68
1:6:1241:G:OP2	17:c5:77:ARG:NH1	2.24	0.68
37:7:64:A:H5'	37:7:65:G:H5''	1.74	0.68
53:m7:67:ILE:HD12	53:m7:82:ARG:CZ	2.23	0.68
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.57	0.68
7:S5:120:ILE:HG12	27:D5:100:ILE:HD11	1.76	0.68
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2754:G:OP2	86:1:4004:OHX:N6	2.27	0.68
36:1:3199:G:OP1	46:L9:21:LYS:NZ	2.20	0.68
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.26	0.68
38:4:22:U:OP1	62:N6:12:ARG:NH2	2.26	0.68
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.73	0.68
1:6:778:G:O6	26:d4:10:ARG:HD2	1.94	0.68
6:s4:192:ILE:HG13	6:s4:243:GLY:HA3	1.75	0.68
8:s6:175:ILE:HB	8:s6:178:LEU:HD22	1.75	0.68
36:5:1716:U:H6	36:5:1716:U:H5'	1.58	0.68
36:5:1790:G:O6	86:5:4198:OHX:N4	2.26	0.68
1:2:1606:C:H2'	1:2:1607:G:C8	2.29	0.68
3:S1:101:HIS:HA	3:S1:217:LEU:HD22	1.76	0.68
36:1:837:A:OP1	79:Q3:5:THR:OG1	2.11	0.68
36:1:2255:A:OP1	86:1:3930:OHX:N3	2.26	0.68
40:L3:320:ASP:OD2	40:L3:320:ASP:N	2.19	0.68
51:M5:140:LYS:O	51:M5:144:ARG:HG3	1.94	0.68
72:O6:45:ARG:NH2	72:O6:54:GLU:OE1	2.27	0.68
1:6:833:U:O4	86:6:2100:OHX:N2	2.27	0.68
8:s6:48:TYR:CZ	8:s6:121:LEU:HD22	2.29	0.68
36:5:2425:G:OP2	51:m5:90:ASN:ND2	2.27	0.68
36:5:2971:A:H3'	36:5:2971:A:N3	2.09	0.68
36:5:3287:U:H2'	36:5:3288:G:H5'	1.75	0.68
37:7:121:U:OP2	42:l5:265:TYR:OH	2.07	0.68
58:n2:14:THR:HG23	58:n2:66:VAL:HG22	1.74	0.68
62:n6:45:ILE:HD11	62:n6:122:LYS:HB2	1.76	0.68
82:p0:91:GLU:HG2	82:p0:92:PRO:HD2	1.76	0.68
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.76	0.68
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.27	0.68
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	1.75	0.68
34:sR:260:ILE:HB	34:sR:274:LEU:HD12	1.76	0.68
8:S6:7:TYR:CD2	8:S6:113:ILE:HG21	2.29	0.68
36:1:1238:C:N4	36:1:1245:A:OP2	2.26	0.68
36:1:3148:U:O4	86:1:4108:OHX:N2	2.26	0.68
53:M7:28:ASN:O	53:M7:32:THR:HG22	1.94	0.68
6:s4:100:ARG:NH2	6:s4:121:TYR:O	2.27	0.68
11:s9:108:ARG:NH1	11:s9:110:GLN:OE1	2.27	0.68
36:5:1024:G:N2	36:5:1026:A:OP2	2.27	0.68
36:5:1934:G:O6	86:5:3916:OHX:N2	2.26	0.68
36:5:2248:C:OP2	86:5:3979:OHX:N6	2.27	0.68
39:l2:113:VAL:HG12	39:l2:166:ILE:HA	1.75	0.68
61:n5:115:ARG:HH11	61:n5:115:ARG:HG3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:104:A:OP2	1:2:308:C:N4	2.26	0.68
1:2:1681:A:H2'	1:2:1682:U:H5'	1.76	0.68
36:1:2120:A:OP2	86:1:4006:OHX:N2	2.27	0.68
60:N4:62:GLY:O	60:N4:64:THR:OG1	2.12	0.68
66:O0:16:LEU:HB3	66:O0:98:SER:HB2	1.75	0.68
67:O1:79:ARG:H	67:O1:79:ARG:NE	1.92	0.68
1:6:837:G:O6	86:6:2100:OHX:N1	2.27	0.68
34:sR:123:ILE:HD12	34:sR:154:VAL:HG23	1.76	0.68
74:o8:5:ILE:HG22	74:o8:54:LEU:HB2	1.75	0.68
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.27	0.67
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.59	0.67
36:1:410:U:O4	86:1:4055:OHX:N2	2.28	0.67
36:1:1456:A:N7	67:O1:26:LYS:NZ	2.41	0.67
42:L5:83:LEU:HD22	42:L5:88:ILE:HD12	1.76	0.67
1:6:67:A:O2'	1:6:69:G:OP1	2.10	0.67
7:s5:90:ILE:O	7:s5:94:THR:HG23	1.95	0.67
34:sR:123:ILE:HG22	34:sR:133:VAL:HG22	1.75	0.67
34:sR:256:THR:N	34:sR:259:GLY:O	2.27	0.67
36:5:3299:A:H61	36:5:3315:G:H1	1.42	0.67
1:2:480:G:N2	1:2:509:G:H1'	2.08	0.67
1:2:1564:U:H2'	1:2:1565:C:H6	1.59	0.67
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.27	0.67
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.76	0.67
17:C5:98:ASN:ND2	17:C5:100:LYS:O	2.26	0.67
34:SR:42:LEU:HD11	34:SR:68:VAL:HG11	1.76	0.67
36:1:1740:U:H1'	36:1:1741:A:C2	2.29	0.67
36:1:1942:U:HO2'	36:1:3345:G:HO2'	1.38	0.67
39:L2:117:GLU:OE2	39:L2:121:GLY:N	2.26	0.67
48:M1:81:GLU:HA	48:M1:84:LEU:HB2	1.76	0.67
1:6:1797:A:H5'	28:d6:95:ARG:HG2	1.75	0.67
1:6:1797:A:OP2	28:d6:10:ARG:HG2	1.95	0.67
10:s8:106:ALA:HB2	10:s8:165:LEU:HG	1.76	0.67
36:5:73:C:N3	49:m3:59:ARG:NH1	2.42	0.67
36:5:90:C:C2'	36:5:91:G:H5'	2.24	0.67
49:m3:179:PHE:HD1	49:m3:182:ILE:HD12	1.60	0.67
1:2:7:G:N7	4:S2:205:ARG:NH1	2.41	0.67
34:SR:170:ILE:HG21	34:SR:211:ILE:HD11	1.76	0.67
36:1:239:G:O2'	36:1:240:U:OP1	2.12	0.67
39:L2:209:HIS:HD2	39:L2:211:HIS:H	1.41	0.67
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.75	0.67
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:66:ILE:HA	74:O8:69:LEU:HD23	1.76	0.67
75:O9:9:ILE:HD11	75:O9:51:ILE:HD13	1.75	0.67
1:6:959:U:OP2	29:d7:20:LYS:NZ	2.24	0.67
10:s8:105:ASP:OD1	10:s8:106:ALA:N	2.27	0.67
36:5:2584:G:H5''	36:5:2584:G:H8	1.58	0.67
67:o1:55:LEU:HB2	67:o1:95:PRO:HD3	1.75	0.67
8:S6:122:GLU:O	8:S6:124:LEU:N	2.24	0.67
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	1.93	0.67
48:M1:92:ARG:HG3	48:M1:95:ASN:HD21	1.60	0.67
28:d6:58:VAL:HG22	28:d6:59:TYR:H	1.58	0.67
36:5:900:G:H1'	36:5:1589:A:N6	2.08	0.67
36:5:2211:U:O4	86:5:3963:OHX:N4	2.28	0.67
36:5:2568:C:N4	36:5:2574:G:O6	2.27	0.67
46:l9:8:GLN:HG2	46:l9:68:LEU:HD13	1.77	0.67
1:2:108:A:H2'	1:2:109:G:C8	2.29	0.67
1:2:1240:U:OP2	86:2:2144:OHX:N1	2.26	0.67
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.77	0.67
36:1:1170:A:OP2	86:1:3955:OHX:N5	2.26	0.67
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.24	0.67
1:6:40:A:O2'	86:6:2107:OHX:N4	2.27	0.67
1:6:1127:G:OP1	77:q1:11:ARG:NH2	2.28	0.67
1:6:1502:G:N7	21:c9:102:ARG:NH2	2.43	0.67
19:c7:26:LEU:HD13	19:c7:59:LYS:HG3	1.76	0.67
36:5:1734:G:O6	86:5:3970:OHX:N5	2.28	0.67
36:5:2588:U:OP1	45:l8:48:ARG:NH2	2.27	0.67
1:2:1533:C:H4'	1:2:1539:G:N1	2.09	0.67
13:C1:95:PRO:O	13:C1:97:TYR:N	2.28	0.67
55:M9:101:VAL:O	55:M9:104:ARG:NH1	2.27	0.67
1:6:140:A:N6	1:6:281:G:OP1	2.27	0.67
1:6:1555:A:OP2	17:c5:47:ARG:NH2	2.27	0.67
3:s1:157:GLN:OE1	86:s1:302:OHX:N3	2.27	0.67
36:5:3214:U:OP2	50:m4:128:ARG:NH2	2.22	0.67
1:2:542:A:C8	1:2:543:C:H3'	2.30	0.67
5:S3:127:MET:HE1	5:S3:133:GLY:H	1.59	0.67
23:D1:1:MET:HG3	23:D1:10:GLU:HB3	1.76	0.67
64:N8:133:LEU:HD13	64:N8:137:LYS:HG3	1.76	0.67
5:s3:29:LEU:HD21	5:s3:69:LEU:HD21	1.76	0.67
7:s5:35:GLN:C	7:s5:37:GLN:H	2.03	0.67
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.75	0.67
36:5:437:G:H22	36:5:622:A:N6	1.93	0.67
45:l8:122:LYS:C	45:l8:124:ASP:H	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:144:GLU:OE1	72:o6:36:ARG:NH2	2.27	0.67
65:n9:17:HIS:HA	65:n9:20:GLY:HA3	1.77	0.67
1:2:1564:U:H2'	1:2:1565:C:C6	2.30	0.67
1:2:1680:G:O6	86:2:2111:OHX:N5	2.28	0.67
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.76	0.67
36:1:1103:A:H4'	36:1:1103:A:OP2	1.93	0.67
37:3:60:G:OP2	86:3:226:OHX:N3	2.26	0.67
60:N4:4:GLU:HG2	60:N4:30:ARG:HD3	1.76	0.67
1:6:486:G:H22	1:6:501:U:H3	1.42	0.67
1:6:1665:U:O4	86:6:2123:OHX:N6	2.28	0.67
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.28	0.67
1:2:931:C:O2'	3:S1:118:GLN:O	2.12	0.67
86:2:2037:OHX:N2	10:S8:17:LYS:O	2.28	0.67
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.77	0.67
41:L4:22:LEU:HD11	41:L4:26:PHE:HB2	1.76	0.67
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.26	0.67
1:6:755:A:HO2'	1:6:756:A:H8	1.42	0.67
1:6:1238:A:OP2	86:6:2096:OHX:N1	2.28	0.67
4:s2:237:VAL:HB	4:s2:242:ILE:HD11	1.77	0.67
4:s2:243:TYR:HB3	4:s2:246:GLU:HG3	1.75	0.67
34:sR:82:SER:OG	34:sR:92:TRP:NE1	2.22	0.67
36:5:3192:U:O4	86:5:4144:OHX:N6	2.27	0.67
1:2:38:C:H2'	1:2:39:A:H5'	1.77	0.67
1:2:1472:C:OP1	7:S5:102:ARG:NH2	2.21	0.67
34:SR:178:VAL:HG13	34:SR:202:LEU:HD12	1.75	0.67
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.24	0.67
36:1:3165:A:H61	36:1:3285:C:H42	1.43	0.67
86:1:3936:OHX:N5	86:1:4197:OHX:N6	2.43	0.67
59:N3:87:ARG:HH22	59:N3:137:VAL:HG21	1.59	0.67
72:O6:97:SER:O	72:O6:99:ARG:N	2.28	0.67
1:6:312:A:H4'	1:6:313:U:H5''	1.75	0.67
37:7:23:A:H2'	37:7:24:A:C8	2.30	0.67
49:m3:56:PRO:HG3	49:m3:74:GLY:O	1.95	0.67
50:m4:37:GLU:OE1	56:n0:72:VAL:HB	1.95	0.67
1:2:959:U:C6	15:C3:61:THR:HB	2.30	0.66
1:2:1041:G:H2'	1:2:1042:G:C8	2.30	0.66
1:2:1160:A:H2'	1:2:1161:C:H6	1.60	0.66
1:2:1430:U:O4'	22:D0:72:ASN:ND2	2.28	0.66
1:2:1657:U:H4'	1:2:1658:G:O5'	1.94	0.66
18:C6:35:PRO:HG2	18:C6:38:LEU:HG	1.75	0.66
36:1:1374:G:O6	64:N8:10:LYS:NZ	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.12	0.66
53:M7:62:ARG:O	86:M7:205:OHX:N1	2.27	0.66
36:5:1249:G:H2'	36:5:1250:G:H8	1.60	0.66
40:I3:115:LYS:HE3	40:I3:129:ALA:HB3	1.77	0.66
65:n9:14:ARG:HH12	65:n9:18:ARG:NH1	1.92	0.66
8:S6:12:SER:HB2	8:S6:124:LEU:HD12	1.77	0.66
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.77	0.66
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.28	0.66
1:6:196:G:O2'	1:6:197:A:OP2	2.13	0.66
36:5:1084:A:OP1	57:n1:35:LYS:NZ	2.28	0.66
36:5:3066:U:O4	86:5:4105:OHX:N4	2.28	0.66
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.28	0.66
1:2:1537:C:N3	86:2:2153:OHX:N3	2.43	0.66
18:C6:143:ARG:HH22	35:SM:84:LYS:NZ	1.92	0.66
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.28	0.66
38:4:141:C:OP1	51:M5:109:ARG:NH1	2.29	0.66
1:6:484:C:H42	1:6:503:G:H1	1.43	0.66
1:6:987:G:O6	86:6:2119:OHX:N4	2.29	0.66
1:6:1251:U:H4'	33:e1:134:ASN:H	1.60	0.66
1:6:1579:U:OP1	86:6:2181:OHX:N4	2.29	0.66
30:d8:8:THR:HG1	30:d8:59:SER:HG	1.41	0.66
36:5:63:A:OP1	51:m5:172:ARG:NH2	2.28	0.66
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.10	0.66
36:5:1887:A:OP1	86:5:4114:OHX:N6	2.28	0.66
36:5:3216:G:OP2	69:o3:2:ALA:HB2	1.96	0.66
41:I4:8:VAL:HB	41:I4:16:THR:HG21	1.77	0.66
50:m4:22:LEU:HB3	50:m4:64:VAL:HG13	1.77	0.66
1:2:331:A:H5'	10:S8:33:PRO:HA	1.78	0.66
36:1:2924:U:O4	86:1:4015:OHX:N1	2.28	0.66
40:L3:76:VAL:HG11	40:L3:323:MET:HE3	1.77	0.66
58:N2:90:ARG:O	58:N2:91:ASP:HB2	1.95	0.66
36:5:212:G:OP2	62:n6:2:ALA:N	2.29	0.66
36:5:410:U:O4	86:5:4102:OHX:N1	2.28	0.66
36:5:430:U:OP2	86:5:3984:OHX:N5	2.29	0.66
36:5:742:G:N7	86:5:4003:OHX:N4	2.44	0.66
36:5:1066:G:OP1	86:n9:102:OHX:N2	2.27	0.66
36:5:3195:U:H1'	36:5:3196:U:OP1	1.95	0.66
67:o1:33:VAL:HG13	67:o1:51:LEU:HD11	1.75	0.66
2:S0:59:LEU:HD11	23:D1:78:LEU:HD12	1.77	0.66
16:C4:112:ILE:HB	28:D6:57:SER:HB3	1.76	0.66
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:74:MET:HE3	59:N3:102:ILE:HB	1.77	0.66
1:6:775:G:N7	26:d4:11:LYS:NZ	2.43	0.66
3:s1:33:LYS:HD3	3:s1:232:HIS:HD1	1.60	0.66
11:s9:113:VAL:HG21	11:s9:134:ILE:HG21	1.78	0.66
13:c1:21:ASN:OD1	13:c1:21:ASN:N	2.29	0.66
37:7:91:G:H2'	37:7:92:A:C8	2.30	0.66
21:C9:63:ARG:HG2	21:C9:67:MET:HE1	1.78	0.66
40:L3:284:ARG:HB2	40:L3:284:ARG:HH11	1.60	0.66
41:L4:89:ALA:O	41:L4:91:GLY:N	2.25	0.66
42:L5:208:MET:HG2	42:L5:223:PHE:CZ	2.31	0.66
59:N3:81:GLN:O	59:N3:98:ASN:ND2	2.28	0.66
1:6:1726:G:N7	86:6:2146:OHX:N5	2.44	0.66
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.21	0.66
36:5:2836:C:H5	36:5:2852:C:N4	1.91	0.66
36:5:3276:G:H2'	36:5:3276:G:OP2	1.95	0.66
37:7:62:U:O3'	42:l5:285:ARG:NH1	2.28	0.66
54:m8:153:PHE:O	54:m8:161:LYS:HG2	1.94	0.66
87:2:2178:PCY:H383	87:2:2178:PCY:H37	1.77	0.66
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.78	0.66
25:D3:53:VAL:HG23	25:D3:100:ASP:O	1.96	0.66
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.28	0.66
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.78	0.66
1:6:1294:G:O6	86:6:2068:OHX:N5	2.29	0.66
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.78	0.66
12:c0:29:GLN:NE2	12:c0:31:LYS:O	2.29	0.66
34:sR:246:SER:HB3	34:sR:251:TRP:HB2	1.76	0.66
46:l9:76:ASP:O	46:l9:80:THR:HG22	1.94	0.66
1:2:823:G:H3'	1:2:824:G:C8	2.30	0.66
13:C1:122:ILE:H	13:C1:144:ALA:HB2	1.59	0.66
36:1:2636:A:H5''	36:1:2637:A:H5'	1.78	0.66
1:6:518:A:O2'	1:6:534:A:N6	2.28	0.66
1:6:1171:A:H2'	1:6:1172:G:C8	2.30	0.66
18:c6:6:SER:HB2	18:c6:23:LYS:HB3	1.75	0.66
60:n4:129:LYS:O	60:n4:133:THR:N	2.26	0.66
1:2:1795:U:O2	28:D6:10:ARG:HD2	1.96	0.66
1:2:1796:C:H6	28:D6:7:SER:HG	1.41	0.66
2:S0:167:LYS:HB3	2:S0:168:HIS:CD2	2.30	0.66
36:1:156:G:OP2	72:O6:25:LYS:HB3	1.96	0.66
36:1:1790:G:O6	86:1:4167:OHX:N4	2.29	0.66
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.78	0.66
1:6:647:G:H1	1:6:687:G:H1	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:845:G:H2'	1:6:846:G:H8	1.61	0.66
10:s8:25:ARG:O	10:s8:28:GLU:HG2	1.96	0.66
11:s9:59:LEU:HD23	11:s9:69:ARG:HA	1.77	0.66
56:n0:13:ARG:HG3	56:n0:13:ARG:NH1	2.11	0.66
57:n1:122:GLN:HB3	57:n1:124:VAL:HG23	1.76	0.66
10:S8:192:TYR:O	10:S8:196:LEU:HB2	1.95	0.66
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.61	0.66
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.79	0.66
48:M1:12:LEU:HD12	48:M1:131:MET:HE3	1.77	0.66
57:N1:126:VAL:HG23	57:N1:127:GLN:H	1.60	0.66
1:6:753:A:H62	6:s4:187:ARG:HH22	1.43	0.66
18:c6:99:GLU:HG2	34:sR:57:PRO:HB2	1.78	0.66
23:d1:62:ARG:HH12	24:d2:20:THR:HG22	1.61	0.66
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.29	0.66
44:l7:134:VAL:O	44:l7:229:PHE:HA	1.95	0.66
47:m0:80:SER:HB3	47:m0:147:VAL:HG11	1.78	0.66
47:m0:99:ILE:HD13	47:m0:101:LYS:HB2	1.77	0.66
1:2:694:U:H3	9:S7:98:ILE:HD12	1.59	0.65
1:2:699:U:OP2	1:2:733:A:N6	2.29	0.65
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.29	0.65
21:C9:22:LEU:HB3	21:C9:55:TYR:HD1	1.61	0.65
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.28	0.65
36:1:1062:A:H5''	36:1:1063:G:H5'	1.77	0.65
36:1:1493:G:O6	75:O9:2:ALA:N	2.28	0.65
40:L3:287:LYS:HA	40:L3:320:ASP:HB3	1.77	0.65
42:L5:120:LYS:O	42:L5:248:ARG:NH2	2.30	0.65
46:L9:41:ILE:HG23	46:L9:43:VAL:HG13	1.77	0.65
48:M1:94:ARG:C	48:M1:96:PHE:H	2.04	0.65
1:6:542:A:H8	1:6:543:C:H5'	1.62	0.65
1:6:1417:A:OP1	86:6:2086:OHX:N4	2.30	0.65
34:sR:89:LEU:HB2	34:sR:103:PHE:HB2	1.77	0.65
36:5:1541:G:OP2	86:5:4093:OHX:N4	2.29	0.65
36:5:2311:G:OP2	86:5:4199:OHX:N1	2.29	0.65
53:m7:108:ASP:N	53:m7:152:GLU:OE2	2.23	0.65
1:2:1428:G:H5'	1:2:1428:G:H8	1.61	0.65
3:S1:222:LYS:O	3:S1:224:ASP:N	2.29	0.65
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.78	0.65
50:M4:92:GLU:OE2	50:M4:92:GLU:N	2.21	0.65
1:6:73:U:H2'	1:6:74:U:C6	2.31	0.65
1:6:500:C:O2'	1:6:501:U:O4'	2.14	0.65
1:6:922:G:H2'	1:6:923:A:H8	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1280:C:H2'	1:6:1281:G:H8	1.61	0.65
2:s0:90:ALA:HA	2:s0:95:ALA:HB3	1.78	0.65
44:l7:96:PRO:O	44:l7:99:PRO:HD2	1.95	0.65
65:n9:12:GLN:OE1	65:n9:15:LYS:HE2	1.97	0.65
1:2:1291:G:H5'	4:S2:119:LYS:HE2	1.78	0.65
11:S9:149:ARG:O	11:S9:151:ASP:N	2.29	0.65
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.27	0.65
40:L3:347:SER:O	40:L3:349:LYS:N	2.28	0.65
42:L5:78:ALA:HB1	42:L5:104:LEU:HD23	1.79	0.65
51:M5:173:GLY:O	51:M5:183:THR:HG23	1.96	0.65
54:M8:3:ILE:HD12	54:M8:5:HIS:HE1	1.61	0.65
55:M9:86:GLU:OE2	55:M9:91:SER:N	2.24	0.65
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	1.78	0.65
1:6:1133:A:H2'	1:6:1134:C:O4'	1.96	0.65
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.29	0.65
42:l5:7:ALA:O	86:l5:305:OHX:N6	2.29	0.65
1:2:527:A:OP2	86:2:2054:OHX:N4	2.29	0.65
1:2:1483:A:H2'	1:2:1484:G:C8	2.32	0.65
4:S2:228:ASN:ND2	23:D1:1:MET:HB3	2.12	0.65
6:S4:38:LEU:O	6:S4:40:GLU:N	2.29	0.65
8:S6:163:THR:HA	8:S6:168:THR:HA	1.77	0.65
15:C3:33:VAL:HA	15:C3:36:GLN:HB2	1.78	0.65
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.11	0.65
33:E1:98:VAL:HG13	33:E1:99:LYS:H	1.62	0.65
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.28	0.65
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.10	0.65
1:6:1039:A:O2'	1:6:1040:G:OP2	2.14	0.65
1:6:1208:A:N1	1:6:1455:G:N2	2.45	0.65
1:2:1228:G:H1	14:C2:67:THR:HB	1.61	0.65
1:2:1756:A:H8	1:2:1756:A:O5'	1.79	0.65
36:1:2842:U:OP1	36:1:2844:C:N4	2.28	0.65
36:1:3199:G:H5''	50:M4:6:ILE:HG21	1.79	0.65
34:sR:309:VAL:HB	34:sR:311:ARG:NH1	2.11	0.65
37:7:76:A:O2'	56:n0:50:LYS:NZ	2.30	0.65
47:m0:74:LYS:O	47:m0:78:THR:HG23	1.96	0.65
1:2:639:U:OP1	9:S7:117:THR:OG1	2.15	0.65
1:2:732:G:O6	86:2:2130:OHX:N5	2.30	0.65
1:2:780:A:H8	26:D4:8:ARG:HB3	1.60	0.65
1:2:1100:G:H1'	24:D2:76:SER:HB3	1.79	0.65
86:2:2040:OHX:N1	25:D3:64:PRO:O	2.30	0.65
2:S0:41:ARG:HD2	2:S0:42:PRO:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:135:PRO:HB2	8:S6:141:ILE:HG13	1.78	0.65
23:D1:3:ASN:ND2	23:D1:6:GLY:O	2.23	0.65
36:1:1724:U:H1'	36:1:1725:C:C6	2.32	0.65
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.30	0.65
54:M8:86:THR:HG22	54:M8:105:ARG:HB2	1.78	0.65
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.23	0.65
68:O2:4:LEU:HD23	68:O2:91:THR:HG23	1.79	0.65
34:sR:164:ASP:O	34:sR:166:SER:N	2.29	0.65
38:8:1:A:OP1	86:8:217:OHX:N5	2.29	0.65
57:n1:101:CYS:SG	57:n1:102:ARG:N	2.69	0.65
1:2:73:U:H4'	1:2:74:U:OP1	1.96	0.65
1:2:720:G:H1'	1:2:721:U:H5'	1.78	0.65
1:2:1521:G:O2'	1:2:1523:G:OP2	2.12	0.65
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.29	0.65
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.61	0.65
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.32	0.65
36:1:2850:G:O6	86:1:4074:OHX:N6	2.30	0.65
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.78	0.65
54:M8:34:THR:HG22	54:M8:49:LEU:HD21	1.79	0.65
58:N2:59:ASP:HB3	58:N2:62:VAL:HB	1.78	0.65
1:6:1619:C:C2	30:d8:22:ARG:HD2	2.32	0.65
3:s1:35:PRO:HB3	3:s1:231:LEU:HD11	1.79	0.65
40:l3:228:GLY:O	40:l3:232:ARG:HB3	1.96	0.65
70:o4:81:CYS:O	70:o4:83:ASN:N	2.30	0.65
2:S0:35:PRO:HB3	23:D1:87:ARG:HH21	1.61	0.65
3:S1:131:ASP:O	3:S1:133:TYR:N	2.29	0.65
48:M1:62:ASN:ND2	78:Q2:101:GLY:O	2.30	0.65
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.79	0.65
1:6:193:U:C2	1:6:195:G:H1'	2.31	0.65
1:6:1402:G:OP2	19:c7:5:ARG:NH1	2.29	0.65
3:s1:48:VAL:HG21	3:s1:61:LEU:HB2	1.77	0.65
12:c0:56:LYS:N	12:c0:67:THR:O	2.29	0.65
18:c6:39:VAL:HG12	18:c6:41:PRO:HD2	1.79	0.65
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.77	0.65
45:l8:68:ARG:O	45:l8:69:LEU:HB2	1.95	0.65
86:2:2134:OHX:N6	10:S8:52:ASN:OD1	2.30	0.65
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.32	0.65
36:1:864:G:OP2	86:1:3880:OHX:N5	2.30	0.65
36:1:1553:U:H4'	36:1:1554:U:H5'	1.79	0.65
36:1:3115:C:O2'	36:1:3117:C:N4	2.26	0.65
72:O6:95:ALA:HA	72:O6:99:ARG:HD3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c7:34:LEU:HD22	19:c7:38:ILE:HD12	1.78	0.65
36:5:1025:A:H3'	36:5:1026:A:H4'	1.79	0.65
36:5:2211:U:H5	36:5:2234:G:O6	1.80	0.65
64:n8:47:LYS:O	64:n8:49:HIS:N	2.29	0.65
65:n9:23:LYS:HB3	65:n9:24:PRO:HD3	1.78	0.65
1:2:199:G:HO2'	1:2:200:A:H8	1.44	0.65
1:2:1239:U:O4	86:2:2048:OHX:N2	2.30	0.65
9:S7:133:THR:O	9:S7:134:GLU:HB2	1.96	0.65
64:N8:28:HIS:CD2	64:N8:32:ARG:HG3	2.32	0.65
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.32	0.65
69:O3:86:ARG:O	86:O3:202:OHX:N1	2.30	0.65
21:c9:39:THR:HA	21:c9:100:ILE:HD13	1.79	0.65
36:5:2555:G:N2	63:n7:135:ARG:O	2.30	0.65
36:5:2762:A:OP2	86:5:3990:OHX:N5	2.29	0.65
37:7:86:U:O2	86:7:218:OHX:N4	2.29	0.65
1:2:649:U:O2'	1:2:650:U:O5'	2.14	0.64
1:2:932:U:OP2	3:S1:155:TYR:OH	2.15	0.64
1:2:1229:G:HO2'	1:2:1255:G:N2	1.96	0.64
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.79	0.64
36:1:2180:G:P	39:L2:174:ARG:HH22	2.21	0.64
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.79	0.64
62:N6:52:ARG:O	62:N6:54:ASP:N	2.30	0.64
5:s3:137:VAL:HG22	5:s3:151:LYS:HG3	1.78	0.64
6:s4:79:ASP:HB3	6:s4:82:TYR:HB2	1.79	0.64
7:s5:33:VAL:HG13	7:s5:37:GLN:OE1	1.97	0.64
8:s6:67:VAL:HG23	8:s6:68:LEU:O	1.97	0.64
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.79	0.64
11:s9:3:ARG:HG2	11:s9:3:ARG:HH21	1.62	0.64
11:s9:142:ASN:C	11:s9:142:ASN:HD22	2.04	0.64
30:d8:26:THR:O	30:d8:44:VAL:HG22	1.97	0.64
34:sR:106:HIS:ND1	34:sR:128:ASP:OD2	2.23	0.64
36:5:2746:A:H2	42:l5:146:LEU:HB3	1.61	0.64
42:l5:22:ARG:NH1	42:l5:28:THR:OG1	2.30	0.64
1:2:1783:C:H2'	1:2:1784:C:H6	1.62	0.64
6:S4:32:SER:HB2	6:S4:83:PRO:HD3	1.77	0.64
36:1:612:U:OP1	43:L6:21:THR:HB	1.97	0.64
36:1:2573:G:O6	86:1:3995:OHX:N3	2.31	0.64
36:1:3329:U:H5''	40:L3:308:MET:HE3	1.79	0.64
39:L2:114:SER:HB2	39:L2:169:ILE:HD12	1.79	0.64
54:M8:16:ARG:HH12	54:M8:55:SER:HB3	1.61	0.64
1:6:868:G:H1	1:6:960:U:H3	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:d6:40:ALA:HB3	28:d6:69:ASN:HB3	1.80	0.64
36:5:174:C:H42	36:5:244:G:H1	1.45	0.64
36:5:2779:A:H5'	36:5:2779:A:H8	1.61	0.64
49:m3:165:SER:HG	49:m3:168:ARG:H	1.43	0.64
56:n0:155:ARG:HD3	56:n0:172:TYR:CG	2.32	0.64
1:2:520:A:H2'	1:2:521:A:C8	2.32	0.64
24:D2:122:SER:OG	24:D2:123:GLY:N	2.29	0.64
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.30	0.64
36:1:2808:A:O2'	36:1:2969:A:OP1	2.12	0.64
36:1:3160:U:H2'	36:1:3161:C:C6	2.32	0.64
70:O4:3:GLN:HB3	70:O4:30:LEU:HD12	1.79	0.64
1:6:1402:G:H5'	19:c7:4:VAL:HG22	1.80	0.64
36:5:1724:U:H1'	36:5:1725:C:C6	2.33	0.64
81:m2:143:UNK:O	81:m2:145:UNK:N	2.30	0.64
49:m3:2:ALA:N	64:n8:33:GLY:O	2.31	0.64
76:q0:97:ARG:HG3	76:q0:120:GLN:O	1.96	0.64
1:2:901:G:N2	16:C4:54:GLU:OE1	2.31	0.64
36:1:2960:C:OP1	86:1:3999:OHX:N4	2.30	0.64
53:M7:38:GLY:H	53:M7:114:VAL:HG13	1.60	0.64
54:M8:40:THR:O	54:M8:42:ALA:N	2.29	0.64
62:N6:71:SER:HB3	62:N6:83:ASP:HB3	1.79	0.64
11:s9:129:ILE:HA	11:s9:134:ILE:HD11	1.78	0.64
18:c6:82:ARG:HH22	18:c6:114:ARG:HB2	1.61	0.64
36:5:2236:G:OP1	86:5:4248:OHX:N3	2.31	0.64
1:2:1563:C:OP1	21:C9:84:LYS:NZ	2.20	0.64
12:C0:46:LEU:O	12:C0:50:THR:HG23	1.98	0.64
16:C4:12:GLN:HG3	16:C4:111:ARG:HG3	1.80	0.64
24:D2:104:LEU:HB2	24:D2:124:LYS:O	1.96	0.64
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.62	0.64
44:L7:221:LYS:HB2	44:L7:227:GLY:HA3	1.78	0.64
46:L9:22:SER:HG	46:L9:23:ARG:H	1.44	0.64
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.32	0.64
64:N8:88:ASP:N	64:N8:88:ASP:OD1	2.27	0.64
2:s0:50:VAL:H	19:c7:109:LEU:HD21	1.61	0.64
9:s7:162:ILE:O	9:s7:164:TYR:N	2.30	0.64
10:s8:8:ARG:NH2	10:s8:22:ARG:HE	1.95	0.64
1:2:322:G:OP1	86:2:2092:OHX:N4	2.30	0.64
5:S3:70:THR:HG22	5:S3:86:LEU:HD22	1.79	0.64
86:1:3909:OHX:N6	51:M5:32:GLN:O	2.30	0.64
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.07	0.64
67:O1:12:TYR:O	67:O1:72:ARG:HD2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Q0:78:ILE:HG12	76:Q0:83:LYS:HG3	1.78	0.64
1:6:1350:U:H2'	1:6:1351:G:C8	2.31	0.64
1:6:1542:G:N2	1:6:1568:C:H1'	2.11	0.64
30:d8:10:ALA:HB1	30:d8:30:VAL:HB	1.79	0.64
36:5:1631:C:H5''	36:5:1632:A:H5''	1.80	0.64
86:5:4021:OHX:N5	86:5:4217:OHX:N1	2.45	0.64
51:m5:121:VAL:HG11	51:m5:131:GLU:HG3	1.80	0.64
1:2:1097:U:O4	4:S2:201:ASN:ND2	2.31	0.64
1:2:1199:G:H8	22:D0:68:ARG:HG3	1.61	0.64
1:2:1370:U:O4	86:2:2122:OHX:N1	2.30	0.64
6:S4:170:THR:OG1	6:S4:171:ASP:N	2.28	0.64
8:S6:114:VAL:HG12	8:S6:115:LYS:HD3	1.78	0.64
36:1:662:U:OP1	64:N8:8:THR:HG21	1.98	0.64
62:N6:35:LEU:HD21	62:N6:48:LEU:HD12	1.80	0.64
25:d3:126:LYS:HB3	25:d3:131:SER:H	1.63	0.64
34:sR:236:ALA:O	34:sR:238:ASP:N	2.29	0.64
36:5:437:G:N2	36:5:622:A:H61	1.95	0.64
1:2:872:G:O6	86:2:2127:OHX:N3	2.31	0.64
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.31	0.64
1:2:1479:A:OP1	21:C9:57:ARG:NH1	2.31	0.64
11:S9:157:ASP:OD2	11:S9:158:PHE:N	2.31	0.64
29:D7:37:CYS:O	29:D7:39:GLY:N	2.30	0.64
44:L7:158:LYS:O	44:L7:160:ARG:N	2.31	0.64
70:O4:81:CYS:O	70:O4:83:ASN:N	2.31	0.64
1:6:825:U:O2'	1:6:826:U:H6	1.80	0.64
1:6:1253:U:OP2	14:c2:46:ARG:NH2	2.30	0.64
1:2:1061:A:H2'	1:2:1062:A:H5'	1.79	0.64
1:2:1796:C:OP2	28:D6:5:ARG:NH1	2.30	0.64
3:S1:154:SER:O	3:S1:154:SER:OG	2.13	0.64
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.80	0.64
17:C5:69:GLU:OE1	86:C5:201:OHX:N4	2.31	0.64
36:1:1383:G:O6	86:1:3878:OHX:N3	2.31	0.64
36:1:1942:U:O2'	36:1:3345:G:O2'	2.07	0.64
44:L7:25:GLN:NE2	44:L7:25:GLN:O	2.30	0.64
53:M7:41:LEU:O	53:M7:41:LEU:HD22	1.98	0.64
1:6:488:G:H21	1:6:499:U:H3	1.45	0.64
1:6:1482:C:OP2	1:6:1521:G:N1	2.31	0.64
4:s2:38:VAL:N	4:s2:65:GLU:OE1	2.20	0.64
5:s3:164:VAL:HG22	5:s3:168:ILE:HG12	1.78	0.64
13:c1:123:VAL:HG22	13:c1:142:VAL:HG22	1.79	0.64
36:5:409:A:OP2	86:5:4102:OHX:N3	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1037:C:H2'	36:5:1038:C:H6	1.63	0.64
54:m8:170:ARG:O	54:m8:171:LYS:HB2	1.97	0.64
1:2:480:G:H22	1:2:509:G:H1'	1.63	0.64
1:2:732:G:O2'	1:2:733:A:O4'	2.15	0.64
9:S7:174:ASN:O	9:S7:178:GLY:N	2.31	0.64
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.63	0.64
36:1:1947:G:H1	36:1:2101:C:H42	1.46	0.64
71:O5:38:ARG:HD2	71:O5:41:LEU:HD22	1.80	0.64
71:O5:68:GLN:C	71:O5:70:TYR:H	2.06	0.64
1:6:417:A:H4'	1:6:418:G:O5'	1.98	0.64
63:n7:36:HIS:HD2	63:n7:74:VAL:HG11	1.61	0.64
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.27	0.63
12:C0:32:HIS:HD2	12:C0:35:ILE:HB	1.62	0.63
36:1:3286:G:H3'	36:1:3287:U:H5''	1.80	0.63
38:4:85:G:O6	62:N6:112:ASP:HB3	1.97	0.63
69:O3:67:MET:HE1	69:O3:90:PRO:HD3	1.80	0.63
1:6:1408:G:H2'	1:6:1409:G:O4'	1.98	0.63
3:s1:126:THR:HG22	3:s1:136:ARG:HE	1.62	0.63
7:s5:58:LEU:HD11	7:s5:167:ARG:HH12	1.63	0.63
10:s8:137:LYS:O	10:s8:140:GLU:N	2.29	0.63
15:c3:132:VAL:HG23	15:c3:134:VAL:HG13	1.79	0.63
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.16	0.63
34:sR:198:ASN:O	34:sR:215:GLY:HA3	1.98	0.63
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.31	0.63
1:2:4:C:O2'	11:S9:17:ARG:NH1	2.32	0.63
1:2:1173:C:H3'	20:C8:141:THR:HG21	1.80	0.63
13:C1:21:ASN:OD1	13:C1:21:ASN:N	2.31	0.63
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	1.79	0.63
29:D7:29:ARG:HG3	29:D7:29:ARG:NH1	2.11	0.63
36:1:1043:C:O3'	47:M0:90:ARG:NH1	2.31	0.63
36:1:1765:U:H5''	55:M9:43:LYS:HE2	1.79	0.63
36:1:3060:C:OP1	86:1:4037:OHX:N4	2.30	0.63
48:M1:139:THR:O	48:M1:139:THR:OG1	2.09	0.63
56:N0:9:VAL:HG22	56:N0:61:ILE:HD13	1.80	0.63
66:O0:73:GLY:O	66:O0:76:GLU:HG2	1.99	0.63
36:5:694:C:O2'	41:l4:232:SER:HA	1.99	0.63
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.33	0.63
45:l8:136:LEU:HD22	51:m5:3:ALA:HB2	1.80	0.63
62:n6:3:LYS:HD2	62:n6:8:VAL:HG23	1.79	0.63
69:o3:85:PHE:O	86:o3:202:OHX:N2	2.31	0.63
1:2:328:A:OP2	13:C1:56:LYS:NZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:76:ARG:O	7:S5:83:ARG:NH2	2.31	0.63
10:S8:136:SER:HB3	10:S8:139:ALA:HB3	1.80	0.63
21:C9:52:GLY:O	21:C9:54:PHE:N	2.28	0.63
36:1:2218:G:H2'	36:1:2219:A:C8	2.32	0.63
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.79	0.63
52:M6:157:GLU:OE2	52:M6:160:ARG:NH1	2.32	0.63
64:N8:94:ALA:HB2	64:N8:121:VAL:HG22	1.80	0.63
4:s2:37:PRO:HG3	4:s2:46:LYS:HD2	1.79	0.63
14:c2:61:VAL:HG13	14:c2:121:VAL:HG23	1.79	0.63
15:c3:55:ARG:HD3	29:d7:47:PHE:CD1	2.32	0.63
36:5:3122:A:N1	46:l9:70:THR:HG21	2.13	0.63
53:m7:126:ARG:HD3	53:m7:140:GLU:OE2	1.98	0.63
79:q3:73:THR:HB	79:q3:76:ALA:H	1.62	0.63
2:S0:193:GLN:O	2:S0:195:TRP:N	2.32	0.63
6:S4:163:ASP:O	6:S4:165:ALA:N	2.31	0.63
34:SR:160:GLU:O	34:SR:162:ALA:N	2.28	0.63
36:1:3047:U:O2'	40:L3:53:MET:HE1	1.98	0.63
37:3:121:U:H5''	42:L5:265:TYR:HE1	1.63	0.63
1:6:385:A:H2'	1:6:386:G:C8	2.33	0.63
6:s4:73:ASP:OD2	6:s4:122:LYS:NZ	2.29	0.63
18:c6:66:ARG:HH21	18:c6:68:ARG:HG2	1.63	0.63
36:5:408:A:N6	38:8:15:G:H1'	2.14	0.63
36:5:2112:U:H4'	36:5:2113:A:H5'	1.79	0.63
38:8:104:A:H3'	38:8:105:A:H5''	1.81	0.63
70:o4:41:ARG:HG2	70:o4:56:THR:HG21	1.80	0.63
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.25	0.63
1:2:931:C:OP1	28:D6:70:LYS:NZ	2.29	0.63
1:2:1760:G:H2'	1:2:1761:U:H5'	1.79	0.63
17:C5:25:LEU:HA	17:C5:28:MET:HE2	1.80	0.63
34:SR:22:SER:CB	34:SR:70:ASP:HA	2.28	0.63
36:1:801:A:O2'	86:1:3978:OHX:N2	2.32	0.63
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.14	0.63
36:1:2718:U:OP2	86:1:3980:OHX:N3	2.30	0.63
62:N6:74:TYR:CE1	62:N6:77:LYS:HG3	2.33	0.63
45:l8:108:ARG:O	45:l8:111:LYS:N	2.31	0.63
46:l9:120:ASP:OD1	46:l9:124:ARG:NH2	2.32	0.63
51:m5:65:ARG:HG2	51:m5:127:TYR:CD1	2.33	0.63
1:2:348:U:O4	86:2:2128:OHX:N5	2.31	0.63
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.29	0.63
1:2:829:A:O2'	1:2:830:U:OP2	2.12	0.63
11:S9:114:TYR:HE1	11:S9:121:SER:H	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:90:ASN:O	20:C8:92:ILE:N	2.30	0.63
30:D8:38:ARG:HH12	30:D8:40:ILE:HD11	1.64	0.63
34:SR:222:LEU:HD23	34:SR:234:LEU:HD13	1.80	0.63
36:1:2264:U:OP2	86:1:3983:OHX:N5	2.31	0.63
36:1:2554:A:H62	79:Q3:62:LYS:HE3	1.64	0.63
36:1:2560:C:O2	86:1:3923:OHX:N1	2.32	0.63
36:1:2768:U:H2'	36:1:2769:A:H8	1.64	0.63
1:6:1150:G:O6	86:6:2114:OHX:N5	2.31	0.63
7:s5:158:GLN:HG2	30:d8:66:LEU:HD11	1.81	0.63
10:s8:194:ARG:HD2	10:s8:195:ARG:HH12	1.64	0.63
36:5:121:A:C2	45:l8:129:PRO:HB3	2.33	0.63
36:5:2103:U:H2'	36:5:2104:A:H8	1.64	0.63
36:5:2233:A:OP2	86:5:3963:OHX:N5	2.31	0.63
36:5:2258:U:OP2	86:5:3949:OHX:N4	2.32	0.63
36:5:2507:C:O2'	36:5:2508:U:OP1	2.15	0.63
52:m6:16:VAL:CG2	52:m6:43:ILE:HG12	2.29	0.63
55:m9:106:LEU:HD13	55:m9:138:LEU:HD11	1.81	0.63
63:n7:55:LYS:O	63:n7:57:HIS:N	2.31	0.63
68:o2:31:ASN:OD1	68:o2:31:ASN:N	2.31	0.63
1:2:992:A:OP1	86:2:2036:OHX:N2	2.32	0.63
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.78	0.63
36:1:1798:A:H2'	36:1:1799:A:C8	2.34	0.63
1:6:918:U:H2'	1:6:919:A:H8	1.63	0.63
2:s0:41:ARG:HH11	2:s0:45:VAL:HG21	1.64	0.63
4:s2:115:ILE:HD11	4:s2:212:LYS:HD2	1.81	0.63
13:c1:53:TYR:CD1	13:c1:113:PRO:HG2	2.34	0.63
16:c4:11:SER:OG	16:c4:12:GLN:N	2.32	0.63
2:S0:76:ILE:HG12	2:S0:98:ILE:HG13	1.79	0.63
8:S6:2:LYS:HB2	8:S6:108:VAL:HG22	1.80	0.63
17:C5:53:PRO:O	17:C5:56:PHE:HB3	1.99	0.63
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.33	0.63
36:1:425:G:O6	86:1:3872:OHX:N6	2.31	0.63
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.79	0.63
51:M5:13:LYS:O	51:M5:16:SER:OG	2.09	0.63
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.14	0.63
1:6:982:U:OP1	86:6:2075:OHX:N2	2.32	0.63
11:s9:82:ARG:HH11	11:s9:149:ARG:HD2	1.64	0.63
14:c2:74:LEU:HD11	33:e1:106:TYR:HB3	1.81	0.63
46:l9:86:TYR:CE2	46:l9:151:VAL:HG22	2.34	0.63
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.34	0.63
1:2:1535:U:O2'	1:2:1536:G:N3	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.81	0.63
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.32	0.63
28:D6:24:VAL:HG21	28:D6:71:LEU:HD12	1.81	0.63
50:M4:77:ARG:O	50:M4:81:VAL:HG23	1.98	0.63
7:s5:225:ARG:HB2	30:d8:61:ARG:HD3	1.80	0.63
9:s7:143:LEU:HB2	9:s7:147:ASN:O	1.98	0.63
34:sR:72:THR:HG22	34:sR:81:LEU:HB2	1.81	0.63
36:5:1023:C:H42	36:5:1029:G:H22	1.47	0.63
36:5:1804:A:H2'	36:5:1805:C:C6	2.34	0.63
36:5:1831:U:H2'	36:5:1832:C:H6	1.64	0.63
36:5:2209:U:H4'	36:5:2210:G:OP1	1.98	0.63
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.33	0.63
36:5:3227:A:H2'	36:5:3228:C:H5'	1.81	0.63
37:7:3:U:H2'	37:7:4:U:H6	1.62	0.63
40:l3:227:GLU:HG3	40:l3:270:ARG:HE	1.64	0.63
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.32	0.63
41:l4:200:THR:HG22	41:l4:202:ARG:HH21	1.64	0.63
41:l4:234:ASN:OD1	41:l4:236:LEU:N	2.30	0.63
49:m3:89:TYR:CE1	49:m3:93:ILE:HD11	2.34	0.63
3:S1:181:LEU:O	3:S1:183:GLN:N	2.32	0.62
36:1:1278:A:O2'	36:1:1279:C:O5'	2.17	0.62
41:L4:44:LYS:HB3	41:L4:47:ARG:NH1	2.14	0.62
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	1.81	0.62
86:6:2136:OHX:N3	10:s8:52:ASN:OD1	2.32	0.62
6:s4:126:VAL:HG13	6:s4:158:ASP:O	1.99	0.62
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.81	0.62
36:5:1861:G:OP2	86:5:3996:OHX:N2	2.32	0.62
86:5:4021:OHX:N6	86:5:4217:OHX:N2	2.47	0.62
82:p0:26:PHE:HB2	82:p0:87:VAL:HB	1.79	0.62
1:2:16:G:H2'	1:2:17:C:C6	2.34	0.62
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.81	0.62
28:D6:75:VAL:O	28:D6:79:ILE:N	2.29	0.62
36:1:1362:G:H2'	36:1:1363:A:C8	2.34	0.62
36:1:1580:A:H5'	36:1:2522:G:C5	2.34	0.62
36:1:3353:G:O2'	36:1:3356:G:OP2	2.16	0.62
42:L5:105:ILE:O	42:L5:109:THR:HG23	1.98	0.62
42:L5:107:ARG:NH1	42:L5:169:GLY:O	2.32	0.62
45:L8:41:GLN:HG3	45:L8:44:ARG:HH12	1.64	0.62
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	1.98	0.62
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.29	0.62
6:s4:38:LEU:O	6:s4:41:SER:OG	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:64:ARG:HG3	15:c3:70:LYS:HD2	1.81	0.62
24:d2:15:ASN:ND2	24:d2:72:CYS:O	2.32	0.62
34:sR:209:THR:HG22	34:sR:226:ALA:HB2	1.79	0.62
36:5:1833:G:N2	75:o9:4:GLN:HE21	1.96	0.62
36:5:2960:C:OP1	86:5:3973:OHX:N5	2.32	0.62
48:m1:106:ILE:HD13	48:m1:125:MET:HB3	1.81	0.62
64:n8:132:LYS:O	64:n8:136:GLU:HG3	1.99	0.62
1:2:301:A:OP2	86:2:2065:OHX:N2	2.31	0.62
1:2:1410:A:H5''	18:C6:118:ILE:HD13	1.81	0.62
20:C8:53:ASP:HB3	20:C8:56:LYS:HG3	1.79	0.62
54:M8:30:VAL:O	54:M8:34:THR:HG23	1.99	0.62
1:6:1280:C:H2'	1:6:1281:G:C8	2.33	0.62
1:6:1534:G:OP2	27:d5:74:SER:OG	2.18	0.62
4:s2:132:ALA:O	4:s2:135:SER:OG	2.13	0.62
36:5:1152:G:H22	36:5:1199:C:N4	1.97	0.62
52:m6:127:LEU:HD11	56:n0:168:PRO:HG3	1.81	0.62
1:2:833:U:H5'	1:2:834:G:H5''	1.81	0.62
1:2:1478:G:OP1	21:C9:39:THR:HG21	1.98	0.62
27:D5:89:ILE:HB	27:D5:101:TYR:HB3	1.79	0.62
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.31	0.62
36:1:2554:A:C8	36:1:2554:A:H5'	2.35	0.62
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.82	0.62
1:6:1273:G:H4'	1:6:1274:C:H5''	1.81	0.62
9:s7:7:LYS:NZ	55:m9:188:ASP:OD2	2.32	0.62
22:d0:101:LYS:O	22:d0:104:THR:OG1	2.15	0.62
36:5:911:C:H42	39:l2:3:ARG:HD3	1.64	0.62
36:5:2763:U:H5'	54:m8:176:ARG:HG3	1.81	0.62
86:5:4021:OHX:N5	86:5:4217:OHX:N2	2.48	0.62
51:m5:183:THR:O	51:m5:183:THR:OG1	2.15	0.62
70:o4:65:VAL:HG12	70:o4:70:LYS:HE2	1.80	0.62
36:1:1940:G:H21	36:1:3362:A:H8	1.47	0.62
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.82	0.62
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.82	0.62
52:M6:10:ASP:HA	52:M6:36:VAL:HG23	1.82	0.62
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.81	0.62
1:6:484:C:N4	1:6:503:G:H1	1.98	0.62
6:s4:45:ILE:HG13	6:s4:61:VAL:HG21	1.80	0.62
9:s7:9:LEU:O	9:s7:10:SER:OG	2.15	0.62
36:5:1766:G:H8	55:m9:46:LYS:NZ	1.97	0.62
63:n7:95:VAL:HG11	63:n7:113:VAL:HG21	1.82	0.62
66:o0:24:THR:HG22	66:o0:93:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:70:THR:HG22	5:S3:86:LEU:HB2	1.81	0.62
12:C0:32:HIS:CD2	12:C0:35:ILE:HB	2.34	0.62
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	1.82	0.62
28:D6:60:PRO:O	28:D6:62:TYR:N	2.33	0.62
34:SR:238:ASP:N	34:SR:238:ASP:OD1	2.33	0.62
36:1:499:G:OP1	69:O3:48:ARG:NH2	2.33	0.62
36:1:514:G:N3	41:L4:341:SER:OG	2.33	0.62
36:1:1674:G:OP2	86:1:3944:OHX:N2	2.32	0.62
48:M1:34:SER:HA	48:M1:67:VAL:HG21	1.80	0.62
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.64	0.62
51:M5:35:VAL:HG13	51:M5:65:ARG:HB3	1.80	0.62
14:c2:81:ASP:O	14:c2:83:GLU:N	2.27	0.62
50:m4:55:ARG:HD3	56:n0:70:THR:OG1	1.99	0.62
61:n5:117:ASN:OD1	61:n5:119:THR:OG1	2.16	0.62
1:2:320:U:H3'	1:2:321:C:C5'	2.29	0.62
1:2:1160:A:H2'	1:2:1161:C:C6	2.35	0.62
7:S5:43:PHE:HZ	7:S5:90:ILE:HG21	1.65	0.62
36:1:2112:U:H4'	36:1:2113:A:H5'	1.81	0.62
36:1:3066:U:O4	86:1:4134:OHX:N5	2.32	0.62
1:6:539:G:H8	1:6:539:G:OP2	1.83	0.62
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	1.80	0.62
36:5:630:A:O2'	69:o3:92:LYS:NZ	2.32	0.62
44:l7:229:PHE:CD1	44:l7:229:PHE:C	2.78	0.62
45:l8:134:TYR:CG	45:l8:190:VAL:HG11	2.34	0.62
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	1.82	0.62
1:2:827:C:H2'	1:2:828:U:H6	1.64	0.62
1:2:1291:G:N2	1:2:1324:G:H22	1.98	0.62
36:1:1103:A:N6	36:1:1363:A:H1'	2.15	0.62
40:L3:19:ARG:HB3	40:L3:232:ARG:HH12	1.64	0.62
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	1.80	0.62
52:M6:72:HIS:O	52:M6:74:ARG:HD3	1.99	0.62
6:s4:181:VAL:HG11	6:s4:225:VAL:HG13	1.82	0.62
86:8:219:OHX:N2	86:8:227:OHX:N1	2.48	0.62
45:l8:224:ASP:N	45:l8:224:ASP:OD1	2.31	0.62
48:m1:151:SER:O	48:m1:152:HIS:HB2	1.98	0.62
1:2:656:G:O2'	1:2:657:U:O4'	2.16	0.62
23:D1:74:GLN:HB2	23:D1:79:LEU:HB2	1.82	0.62
30:D8:16:LEU:HB2	30:D8:27:GLN:O	2.00	0.62
36:1:1229:G:H1	36:1:1280:C:H42	1.46	0.62
39:L2:109:GLU:HG2	39:L2:138:GLY:HA2	1.82	0.62
5:s3:72:LEU:HD22	12:c0:65:TYR:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:94:THR:HG22	7:s5:114:ILE:CG1	2.26	0.62
12:c0:72:GLY:O	12:c0:74:GLU:N	2.32	0.62
16:c4:81:VAL:HG13	16:c4:115:ILE:HG23	1.82	0.62
24:d2:36:LYS:O	24:d2:40:VAL:HG23	2.00	0.62
36:5:299:G:N7	86:5:4190:OHX:N1	2.47	0.62
36:5:3269:U:O2	36:5:3271:G:N1	2.32	0.62
43:l6:46:ARG:HG3	43:l6:46:ARG:HH11	1.64	0.62
78:q2:17:CYS:HG	78:q2:77:CYS:HG	1.01	0.62
1:2:66:U:C5	8:S6:173:PRO:HG3	2.35	0.62
1:2:209:U:H5'	10:S8:171:SER:HB3	1.82	0.62
1:2:759:U:OP1	86:2:2159:OHX:N1	2.33	0.62
1:2:978:A:H2'	1:2:979:A:O4'	1.99	0.62
3:S1:111:ARG:HG3	28:D6:68:TYR:HB2	1.81	0.62
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.81	0.62
18:C6:50:GLU:CD	18:C6:114:ARG:HH11	2.07	0.62
18:C6:93:HIS:HD1	18:C6:101:SER:HG	1.46	0.62
27:D5:43:ASP:O	27:D5:46:LYS:N	2.32	0.62
33:E1:127:GLY:O	33:E1:129:GLY:N	2.27	0.62
36:1:364:G:OP1	41:L4:60:THR:HG23	2.00	0.62
36:1:3087:A:OP1	86:1:4180:OHX:N5	2.33	0.62
1:6:921:U:O4	86:6:2178:OHX:N3	2.33	0.62
1:6:1662:G:O6	86:6:2062:OHX:N6	2.33	0.62
7:s5:112:ARG:HD3	27:d5:95:HIS:HE2	1.63	0.62
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.29	0.62
36:5:1580:A:O2'	36:5:1581:C:OP2	2.17	0.62
36:5:2103:U:H2'	36:5:2104:A:C8	2.35	0.62
37:7:1:G:O2'	42:l5:270:LYS:HB3	2.00	0.62
45:l8:68:ARG:HA	45:l8:236:GLY:O	2.00	0.62
71:o5:21:LEU:HD13	71:o5:25:LYS:HD2	1.82	0.62
1:2:1140:G:OP2	86:2:2066:OHX:N6	2.33	0.61
2:S0:184:LEU:HD12	23:D1:45:ALA:HB2	1.82	0.61
8:S6:70:PRO:HD2	8:S6:71:THR:HG23	1.82	0.61
8:S6:70:PRO:C	8:S6:98:ARG:HH11	2.06	0.61
12:C0:14:TYR:CE2	12:C0:21:VAL:HG22	2.35	0.61
26:D4:27:VAL:HG11	26:D4:35:VAL:HG11	1.81	0.61
27:D5:46:LYS:HG2	27:D5:70:LYS:HE3	1.80	0.61
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.32	0.61
40:L3:19:ARG:HB3	40:L3:232:ARG:NH1	2.14	0.61
1:6:105:A:OP1	10:s8:18:ARG:NH1	2.32	0.61
1:6:678:A:N7	1:6:679:U:N3	2.48	0.61
20:c8:2:SER:HB3	20:c8:4:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2580:A:O2'	86:5:4130:OHX:N1	2.32	0.61
82:p0:48:ARG:HD2	82:p0:90:ASN:HB2	1.82	0.61
10:S8:182:TYR:OH	10:S8:188:GLU:OE1	2.14	0.61
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.64	0.61
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.81	0.61
36:1:317:A:OP2	72:O6:30:LYS:NZ	2.33	0.61
86:1:3936:OHX:N1	86:1:4197:OHX:N4	2.48	0.61
51:M5:65:ARG:HG2	51:M5:127:TYR:CD1	2.35	0.61
1:6:399:A:H4'	6:s4:3:ARG:HG2	1.82	0.61
36:5:916:G:C6	39:l2:207:VAL:HG21	2.34	0.61
39:l2:250:GLN:HG2	39:l2:251:LYS:H	1.63	0.61
41:l4:42:VAL:C	41:l4:44:LYS:H	2.08	0.61
4:S2:228:ASN:HD22	23:D1:1:MET:HB3	1.66	0.61
7:S5:163:SER:HB2	30:D8:48:VAL:HG22	1.80	0.61
20:C8:128:PHE:CD2	35:SM:61:ILE:HG22	2.35	0.61
36:1:2677:G:H2'	36:1:2679:A:H2	1.66	0.61
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.36	0.61
56:N0:137:ARG:HG2	56:N0:139:TYR:CE1	2.34	0.61
36:5:1765:U:H4'	36:5:1765:U:OP1	2.00	0.61
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.32	0.61
36:5:3354:U:H5''	36:5:3354:U:O2	2.00	0.61
49:m3:126:PHE:HD2	71:o5:115:LYS:HG2	1.65	0.61
53:m7:24:VAL:HG12	53:m7:86:LYS:HD3	1.83	0.61
1:2:337:G:H3'	13:C1:133:LYS:HB2	1.82	0.61
1:2:702:G:O6	1:2:737:A:N6	2.33	0.61
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.65	0.61
86:1:3936:OHX:N5	86:1:4197:OHX:N2	2.47	0.61
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.81	0.61
1:6:759:U:OP1	86:s9:201:OHX:N2	2.33	0.61
1:6:848:C:H2'	1:6:849:C:C6	2.35	0.61
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.36	0.61
26:d4:51:GLU:O	26:d4:53:ASP:N	2.33	0.61
36:5:1114:U:H5''	64:n8:22:ILE:HD13	1.83	0.61
45:l8:122:LYS:O	45:l8:124:ASP:N	2.32	0.61
53:m7:94:LEU:HB3	53:m7:148:LEU:HD21	1.82	0.61
36:1:368:G:OP1	86:1:3881:OHX:N1	2.34	0.61
36:1:2528:G:N7	86:1:4182:OHX:N3	2.47	0.61
36:1:3246:G:O6	86:1:4106:OHX:N4	2.34	0.61
45:L8:82:LEU:HD12	45:L8:83:ASP:H	1.66	0.61
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.34	0.61
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:18:ASP:OD2	86:N1:201:OHX:N3	2.34	0.61
1:6:538:A:H8	1:6:543:C:H41	1.43	0.61
1:6:753:A:H62	6:s4:187:ARG:NH2	1.97	0.61
1:6:1471:A:OP1	7:s5:185:ARG:NH1	2.30	0.61
21:c9:118:PRO:C	21:c9:120:GLY:H	2.09	0.61
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	1.82	0.61
36:5:1387:G:OP1	86:5:4201:OHX:N3	2.33	0.61
46:l9:4:ILE:HG23	46:l9:5:GLN:H	1.65	0.61
68:o2:124:GLY:O	68:o2:126:LEU:N	2.33	0.61
72:o6:58:ILE:HG22	72:o6:90:MET:HG3	1.82	0.61
1:2:1199:G:O6	22:D0:67:THR:HG23	2.00	0.61
14:C2:89:ILE:HD13	14:C2:90:LYS:H	1.66	0.61
21:C9:97:SER:O	21:C9:101:ASN:ND2	2.34	0.61
34:SR:291:SER:HB2	34:SR:304:GLY:HA3	1.81	0.61
36:1:562:C:H2'	36:1:563:U:C6	2.33	0.61
36:1:2422:C:O2	51:M5:87:GLN:NE2	2.34	0.61
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.83	0.61
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.36	0.61
1:6:1159:C:N3	86:6:2137:OHX:N5	2.48	0.61
36:5:98:G:N7	49:m3:13:HIS:NE2	2.49	0.61
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.33	0.61
41:l4:42:VAL:O	41:l4:44:LYS:N	2.33	0.61
73:o7:58:THR:HG22	73:o7:59:THR:H	1.66	0.61
1:2:116:U:H2'	1:2:117:U:C6	2.36	0.61
2:S0:70:PRO:HB2	2:S0:94:GLY:HA3	1.82	0.61
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.30	0.61
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.65	0.61
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.34	0.61
63:N7:74:VAL:HG23	63:N7:101:PHE:HE1	1.66	0.61
1:6:1754:A:H4'	1:6:1755:A:O5'	2.01	0.61
4:s2:185:LYS:HD3	4:s2:189:GLN:HE21	1.65	0.61
10:s8:90:LEU:HD23	10:s8:95:THR:HB	1.83	0.61
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.15	0.61
17:c5:126:VAL:O	17:c5:127:ARG:HB2	2.01	0.61
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.33	0.61
26:d4:20:ARG:HD2	26:d4:74:LEU:HD13	1.82	0.61
36:5:159:A:H61	36:5:262:U:H3	1.48	0.61
46:l9:49:ASN:OD1	46:l9:51:GLN:N	2.29	0.61
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.01	0.61
1:2:1553:G:O2'	31:D9:14:TYR:OH	2.17	0.61
7:S5:117:THR:HG22	7:S5:121:ILE:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:126:GLU:HA	21:C9:129:GLN:HG3	1.83	0.61
24:D2:27:ILE:HD11	24:D2:61:ILE:HD12	1.81	0.61
36:1:1688:U:H2'	36:1:1689:U:C6	2.35	0.61
36:1:2356:A:N6	36:1:2983:C:H5	1.95	0.61
36:1:3116:G:OP1	36:1:3116:G:N2	2.33	0.61
25:d3:42:PRO:HA	25:d3:81:LYS:HD2	1.82	0.61
36:5:20:A:OP2	71:o5:90:ARG:NH1	2.34	0.61
36:5:112:U:O2'	36:5:113:C:OP2	2.18	0.61
47:m0:4:ARG:NH2	47:m0:99:ILE:HG22	2.16	0.61
63:n7:29:HIS:HB2	63:n7:40:HIS:O	2.01	0.61
65:n9:21:ILE:O	65:n9:22:LYS:HD2	2.00	0.61
1:2:843:U:H2'	1:2:844:A:C8	2.35	0.61
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.46	0.61
20:C8:30:TYR:O	20:C8:33:THR:OG1	2.19	0.61
41:L4:283:THR:HG22	41:L4:285:ASP:N	2.16	0.61
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.82	0.61
1:6:1057:U:O2'	1:6:1059:U:OP1	2.14	0.61
1:6:1797:A:N1	28:d6:87:ARG:HD2	2.15	0.61
36:5:1370:G:H5''	64:n8:18:GLY:O	2.00	0.61
36:5:2256:A:H2'	36:5:2256:A:OP2	2.01	0.61
36:5:2444:C:N4	36:5:2504:U:O4	2.33	0.61
36:5:2572:C:O2'	36:5:2573:G:OP2	2.17	0.61
42:l5:22:ARG:HA	42:l5:25:GLU:HG3	1.81	0.61
49:m3:9:ILE:HG13	64:n8:49:HIS:CE1	2.36	0.61
64:n8:135:GLU:HG2	64:n8:139:ARG:HG3	1.83	0.61
12:C0:80:LEU:HB2	12:C0:82:LEU:HG	1.81	0.61
28:D6:84:VAL:O	28:D6:86:VAL:N	2.33	0.61
33:E1:151:ASN:O	33:E1:151:ASN:ND2	2.34	0.61
36:1:847:A:H2'	36:1:848:A:C8	2.36	0.61
36:1:1307:G:H5''	52:M6:60:LYS:NZ	2.16	0.61
36:1:2767:U:O2'	78:Q2:30:ALA:O	2.18	0.61
36:1:3138:U:OP2	40:L3:30:LYS:HE3	2.01	0.61
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.34	0.61
37:3:121:U:OP2	42:L5:265:TYR:OH	2.14	0.61
41:L4:338:LYS:O	41:L4:340:GLY:N	2.31	0.61
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.83	0.61
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	1.82	0.61
20:c8:134:ARG:O	20:c8:136:GLN:N	2.31	0.61
46:l9:113:GLU:OE1	46:l9:115:ARG:NE	2.34	0.61
47:m0:89:VAL:HG22	47:m0:136:PHE:CE1	2.35	0.61
49:m3:18:TRP:CD1	49:m3:18:TRP:H	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:m9:92:GLN:O	55:m9:96:ILE:HG13	2.01	0.61
1:2:75:U:N3	1:2:76:A:N3	2.49	0.60
1:2:1588:G:H1	1:2:1608:U:H3	1.49	0.60
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.83	0.60
38:4:16:G:O6	86:4:222:OHX:N3	2.34	0.60
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.81	0.60
54:M8:3:ILE:HD12	54:M8:5:HIS:CE1	2.36	0.60
71:O5:95:PHE:O	71:O5:97:ALA:N	2.34	0.60
1:6:542:A:C8	1:6:543:C:H5'	2.36	0.60
1:6:1765:A:OP2	86:6:2126:OHX:N4	2.33	0.60
15:c3:92:ILE:HA	15:c3:122:ILE:HD11	1.82	0.60
16:c4:87:GLY:HA3	16:c4:120:PRO:HG2	1.83	0.60
17:c5:21:ASP:O	17:c5:25:LEU:N	2.33	0.60
34:sR:64:HIS:ND1	34:sR:86:ASP:OD2	2.33	0.60
36:5:1806:A:OP2	86:5:4024:OHX:N5	2.34	0.60
36:5:3280:U:O2'	36:5:3281:U:H5''	2.01	0.60
37:7:3:U:H2'	37:7:4:U:C6	2.36	0.60
39:l2:42:ARG:HG3	39:l2:89:TYR:CE1	2.36	0.60
44:l7:228:SER:HA	44:l7:232:ARG:NH2	2.16	0.60
46:l9:10:ILE:HD13	46:l9:75:VAL:HG11	1.83	0.60
67:o1:8:VAL:HG12	67:o1:9:THR:H	1.65	0.60
71:o5:76:GLN:O	71:o5:81:ARG:NH1	2.34	0.60
1:2:1449:U:H2'	1:2:1450:U:C6	2.36	0.60
7:S5:102:ARG:HG3	7:S5:103:ASN:ND2	2.16	0.60
36:1:209:A:N3	41:L4:221:ASN:ND2	2.49	0.60
36:1:1564:U:H2'	36:1:1565:G:C8	2.37	0.60
36:1:3087:A:P	86:1:4180:OHX:N5	2.74	0.60
36:1:3243:A:H4'	40:L3:95:THR:HG22	1.83	0.60
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.83	0.60
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.82	0.60
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.82	0.60
1:6:600:U:OP2	25:d3:108:GLY:HA2	2.01	0.60
1:6:800:U:H2'	1:6:801:G:C8	2.37	0.60
5:s3:42:THR:OG1	5:s3:45:LYS:O	2.17	0.60
7:s5:73:THR:HG21	18:c6:114:ARG:HE	1.66	0.60
36:5:2573:G:O6	86:5:4195:OHX:N6	2.34	0.60
36:5:3155:U:OP1	86:5:4226:OHX:N4	2.34	0.60
40:l3:147:GLU:OE1	40:l3:150:ARG:NH1	2.33	0.60
42:l5:61:ILE:HG23	42:l5:79:TYR:CE1	2.35	0.60
1:2:154:G:O6	26:D4:128:LYS:NZ	2.32	0.60
1:2:559:C:N3	1:2:586:G:N1	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:990:C:O2'	16:C4:127:ARG:HG2	2.02	0.60
2:S0:126:PRO:HB2	2:S0:152:PRO:HG2	1.84	0.60
2:S0:157:ASP:OD2	23:D1:60:ARG:NH2	2.35	0.60
7:S5:216:GLU:OE2	7:S5:219:ARG:NH2	2.34	0.60
11:S9:134:ILE:HA	11:S9:158:PHE:HA	1.83	0.60
23:D1:81:ASN:O	23:D1:82:VAL:HB	2.01	0.60
24:D2:25:VAL:HG22	24:D2:65:LEU:HD21	1.82	0.60
36:1:1789:G:O6	86:1:4167:OHX:N2	2.35	0.60
1:6:169:A:H5'	8:s6:176:GLN:HG2	1.83	0.60
21:c9:111:ILE:HG13	21:c9:113:ILE:HG12	1.83	0.60
36:5:2198:A:OP2	86:5:4193:OHX:N4	2.33	0.60
62:n6:32:SER:HA	62:n6:49:PRO:HA	1.84	0.60
74:o8:18:ALA:C	74:o8:20:VAL:H	2.09	0.60
79:q3:49:ARG:HB2	79:q3:55:TRP:CZ3	2.36	0.60
1:2:1362:U:H1'	1:2:1363:U:C5	2.36	0.60
14:C2:60:VAL:HG13	14:C2:122:VAL:HG22	1.84	0.60
36:1:345:G:OP1	36:1:1429:G:N1	2.31	0.60
42:L5:64:ILE:HD12	42:L5:109:THR:HG21	1.83	0.60
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.82	0.60
47:M0:16:PRO:O	47:M0:18:PRO:HD3	2.00	0.60
79:Q3:8:VAL:O	79:Q3:11:THR:HG22	2.01	0.60
1:6:1097:U:O3'	4:s2:159:THR:HG21	2.01	0.60
1:6:1590:G:H2'	1:6:1591:C:H6	1.65	0.60
13:c1:4:GLU:HG3	13:c1:5:LEU:HD22	1.83	0.60
20:c8:42:TYR:HE2	20:c8:73:MET:HG2	1.66	0.60
34:sR:42:LEU:HB2	34:sR:61:PHE:HB2	1.83	0.60
36:5:1152:G:N2	36:5:1200:A:H61	1.98	0.60
36:5:3353:G:O2'	36:5:3356:G:OP2	2.19	0.60
46:l9:94:TYR:CD2	46:l9:98:PRO:HA	2.36	0.60
47:m0:175:ASN:CG	47:m0:176:LEU:H	2.09	0.60
52:m6:15:LEU:HD21	52:m6:125:ARG:HG3	1.82	0.60
1:2:209:U:H2'	1:2:210:A:C8	2.36	0.60
86:2:2159:OHX:N5	11:S9:8:TYR:O	2.34	0.60
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.65	0.60
36:1:716:A:N6	64:N8:117:ARG:HG3	2.16	0.60
36:1:962:A:N1	36:1:2814:G:O2'	2.30	0.60
36:1:979:U:H1'	36:1:980:A:C4	2.36	0.60
36:1:2376:G:H2'	36:1:2377:G:C8	2.36	0.60
39:L2:209:HIS:HD2	39:L2:211:HIS:N	1.99	0.60
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.83	0.60
55:M9:70:LYS:O	55:M9:73:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:2:ALA:O	63:N7:4:PHE:N	2.33	0.60
71:O5:71:LYS:HA	71:O5:71:LYS:NZ	2.15	0.60
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.81	0.60
3:s1:180:THR:H	3:s1:183:GLN:HB2	1.65	0.60
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.35	0.60
20:c8:139:LYS:O	20:c8:143:ARG:NH1	2.34	0.60
22:d0:97:VAL:HG13	22:d0:98:GLN:H	1.67	0.60
24:d2:67:GLY:O	24:d2:69:LEU:N	2.33	0.60
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.31	0.60
36:5:917:A:OP2	86:5:4224:OHX:N3	2.34	0.60
36:5:1781:C:H2'	36:5:1782:U:C6	2.36	0.60
36:5:2425:G:H2'	36:5:2426:U:O4'	2.01	0.60
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.00	0.60
60:n4:4:GLU:HG3	60:n4:30:ARG:NH1	2.15	0.60
1:2:78:A:H4'	8:S6:157:VAL:HG11	1.83	0.60
19:C7:60:ARG:HG3	19:C7:66:VAL:HG21	1.83	0.60
36:1:1365:G:OP2	86:1:3964:OHX:N6	2.35	0.60
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.34	0.60
36:1:3095:U:H2'	36:1:3096:C:H6	1.66	0.60
86:1:3936:OHX:N1	86:1:4197:OHX:N2	2.49	0.60
86:1:3936:OHX:N3	86:1:4197:OHX:N4	2.50	0.60
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.34	0.60
3:s1:125:VAL:HG11	3:s1:173:THR:HG22	1.84	0.60
15:c3:151:ASN:O	86:c3:201:OHX:N3	2.33	0.60
80:e0:59:GLY:O	80:e0:61:SER:N	2.34	0.60
36:5:1015:U:O3'	36:5:1016:C:H2'	2.01	0.60
36:5:1369:A:OP1	64:n8:21:ARG:NH1	2.34	0.60
36:5:3237:U:H2'	36:5:3238:G:O4'	2.02	0.60
71:o5:45:LYS:O	71:o5:49:LYS:HG2	2.01	0.60
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	1.82	0.60
18:C6:42:GLU:HA	18:C6:45:ARG:HB2	1.83	0.60
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.32	0.60
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.82	0.60
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.34	0.60
36:1:230:U:H2'	36:1:231:G:O4'	2.02	0.60
36:1:2207:A:O2'	36:1:2208:A:H5'	2.02	0.60
53:M7:88:VAL:O	53:M7:92:GLN:HG2	2.02	0.60
77:Q1:2:ARG:HB3	77:Q1:5:TRP:CD1	2.36	0.60
1:6:191:C:O2'	1:6:192:U:O5'	2.20	0.60
1:6:647:G:H22	1:6:687:G:N2	1.98	0.60
1:6:852:C:OP1	55:m9:172:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1294:G:H1'	2:s0:109:ASN:HD22	1.66	0.60
1:6:1445:G:N1	33:e1:87:THR:O	2.29	0.60
1:6:1474:G:P	7:s5:109:LYS:HE2	2.41	0.60
5:s3:164:VAL:O	5:s3:168:ILE:HG13	2.01	0.60
8:s6:153:VAL:O	8:s6:155:ASP:N	2.34	0.60
36:5:1786:G:H2'	36:5:1787:A:C8	2.37	0.60
36:5:3275:U:C4	69:o3:60:ARG:HD3	2.36	0.60
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.83	0.60
42:l5:278:SER:N	42:l5:281:GLU:OE2	2.34	0.60
1:2:256:A:H2'	1:2:257:A:O4'	2.01	0.60
1:2:477:A:H2'	1:2:478:A:H8	1.67	0.60
1:2:818:C:N4	1:2:819:G:O6	2.34	0.60
1:2:1358:G:H2'	1:2:1359:C:C6	2.36	0.60
8:S6:155:ASP:OD2	8:S6:155:ASP:N	2.32	0.60
16:C4:103:ARG:NH2	28:D6:52:ASP:OD1	2.35	0.60
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	1.82	0.60
36:1:1597:C:H2'	36:1:1598:G:C8	2.37	0.60
36:1:2898:G:H5''	36:1:2899:C:H5'	1.83	0.60
36:1:2927:C:H2'	36:1:2928:C:C6	2.37	0.60
41:L4:179:LEU:O	41:L4:183:LYS:HG2	2.01	0.60
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.01	0.60
1:6:158:U:O2'	1:6:159:U:H3'	2.01	0.60
1:6:626:U:H2'	1:6:627:C:H6	1.67	0.60
1:6:1160:A:H2'	1:6:1161:C:C6	2.36	0.60
1:6:1202:A:OP1	86:6:2130:OHX:N2	2.33	0.60
1:6:1454:G:O3'	17:c5:122:THR:OG1	2.20	0.60
1:6:1645:G:H22	1:6:1756:A:H2	1.48	0.60
36:5:408:A:H61	38:8:15:G:H1'	1.66	0.60
36:5:1213:G:OP1	56:n0:137:ARG:NH1	2.32	0.60
36:5:2520:A:H2'	36:5:2521:U:C6	2.36	0.60
43:l6:46:ARG:HH11	43:l6:46:ARG:CG	2.15	0.60
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.00	0.60
55:m9:167:ARG:HB3	55:m9:167:ARG:HH11	1.67	0.60
1:2:491:C:H42	1:2:496:G:H1	1.49	0.60
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.14	0.60
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.82	0.60
33:E1:117:LEU:HB3	33:E1:118:ARG:HH11	1.67	0.60
36:1:619:A:H5''	36:1:620:U:OP1	2.00	0.60
40:L3:292:ALA:HB1	40:L3:295:ALA:HB3	1.84	0.60
55:M9:23:TRP:HE3	55:M9:51:VAL:HG13	1.67	0.60
1:6:176:C:OP1	86:6:2095:OHX:N6	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:269:G:H1	1:6:286:C:H42	1.48	0.60
1:6:1699:G:H22	1:6:1702:A:H5''	1.65	0.60
36:5:1073:U:H1'	65:n9:50:THR:HB	1.82	0.60
41:l4:126:ILE:HD11	41:l4:233:LEU:HD13	1.83	0.60
46:l9:111:PHE:HD1	46:l9:127:PRO:HA	1.66	0.60
52:m6:16:VAL:HG21	52:m6:43:ILE:HG12	1.84	0.60
61:n5:103:TYR:O	61:n5:105:VAL:HG23	2.00	0.60
76:q0:77:ILE:HG13	76:q0:78:ILE:H	1.67	0.60
1:2:359:A:C2	25:D3:38:PHE:HB3	2.36	0.60
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	1.84	0.60
36:1:3268:A:OP2	53:M7:181:ARG:NH1	2.35	0.60
40:L3:332:ARG:HG2	40:L3:332:ARG:HH11	1.67	0.60
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.35	0.60
72:O6:60:LEU:HD13	72:O6:64:SER:HB3	1.84	0.60
72:O6:62:ARG:HH12	72:O6:98:ARG:HD3	1.66	0.60
8:s6:78:THR:HG23	8:s6:92:ARG:HG2	1.84	0.60
10:s8:10:LYS:HG2	13:c1:133:LYS:HE2	1.83	0.60
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	1.82	0.60
22:d0:28:SER:OG	22:d0:111:GLY:O	2.19	0.60
28:d6:90:GLU:H	28:d6:90:GLU:CD	2.09	0.60
36:5:1747:G:H21	74:o8:2:ALA:HB1	1.67	0.60
36:5:2897:A:H2'	36:5:2899:C:H5''	1.84	0.60
37:7:9:C:OP1	57:n1:28:SER:OG	2.05	0.60
47:m0:72:ALA:HB2	47:m0:155:ALA:HB2	1.82	0.60
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	1.83	0.60
53:m7:27:LYS:HD3	53:m7:63:PHE:HB3	1.83	0.60
9:S7:35:LYS:O	9:S7:37:GLU:N	2.28	0.59
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	1.84	0.59
25:D3:30:LYS:O	25:D3:34:LEU:HG	2.01	0.59
36:1:215:G:OP1	62:N6:12:ARG:HD2	2.02	0.59
36:1:2984:C:H2'	36:1:2985:C:H6	1.66	0.59
36:1:3316:A:O2'	36:1:3317:U:OP2	2.17	0.59
63:N7:95:VAL:O	63:N7:100:THR:OG1	2.18	0.59
4:s2:179:VAL:HG23	4:s2:197:TYR:HA	1.82	0.59
36:5:136:G:H5'	71:o5:95:PHE:CG	2.36	0.59
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.35	0.59
42:l5:41:LYS:HB2	57:n1:68:THR:O	2.02	0.59
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.84	0.59
49:m3:105:ASN:OD1	49:m3:107:GLU:HG2	2.01	0.59
1:2:25:C:O2	86:2:2085:OHX:N1	2.35	0.59
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.35	0.59
36:1:223:U:O4	86:1:4195:OHX:N5	2.34	0.59
36:1:1488:G:H5''	36:1:1838:G:O6	2.02	0.59
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.84	0.59
36:1:2986:U:H2'	36:1:2987:A:C8	2.37	0.59
36:1:3074:G:OP1	86:1:4037:OHX:N1	2.34	0.59
86:1:3936:OHX:N3	86:1:4197:OHX:N6	2.50	0.59
38:4:79:A:O3'	38:4:80:A:H4'	2.01	0.59
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	1.83	0.59
1:6:772:G:H5''	6:s4:23:LEU:HD21	1.83	0.59
1:6:872:G:H2'	1:6:873:U:O4'	2.02	0.59
27:d5:82:HIS:O	27:d5:85:LYS:HB2	2.02	0.59
36:5:860:G:O5'	39:l2:181:LYS:NZ	2.35	0.59
36:5:3197:G:H2'	36:5:3198:U:H5''	1.83	0.59
36:5:3290:G:N7	86:5:4101:OHX:N5	2.49	0.59
40:l3:347:SER:HB3	40:l3:350:ALA:H	1.66	0.59
43:l6:56:LYS:HG2	43:l6:57:HIS:N	2.17	0.59
49:m3:50:PRO:O	49:m3:52:ASP:N	2.35	0.59
49:m3:129:ASN:OD1	49:m3:130:GLY:N	2.33	0.59
51:m5:42:PRO:HG3	51:m5:61:ILE:HG13	1.84	0.59
67:o1:43:HIS:O	67:o1:44:MET:HE2	2.02	0.59
67:o1:46:THR:HG23	67:o1:47:ASP:N	2.15	0.59
72:o6:57:LEU:O	72:o6:61:ILE:HG13	2.02	0.59
74:o8:58:ASP:HB3	74:o8:61:LYS:HB2	1.84	0.59
9:S7:13:PRO:HB3	9:S7:14:THR:HB	1.84	0.59
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.84	0.59
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.84	0.59
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.17	0.59
36:1:2699:G:OP2	86:1:3904:OHX:N1	2.35	0.59
36:1:2899:C:C5	46:L9:171:ASP:HA	2.38	0.59
86:1:3955:OHX:N6	44:L7:217:PRO:O	2.35	0.59
1:6:1429:G:H1'	22:d0:74:GLU:HG2	1.85	0.59
4:s2:53:ILE:HG12	4:s2:73:LEU:HD22	1.84	0.59
9:s7:78:THR:HA	9:s7:81:LEU:HB2	1.83	0.59
36:5:2724:U:O4	86:5:3960:OHX:N1	2.35	0.59
36:5:3228:C:O2'	36:5:3229:G:OP2	2.15	0.59
38:8:125:U:O2'	38:8:126:A:H5'	2.03	0.59
53:m7:129:THR:HG23	53:m7:131:ARG:HD3	1.84	0.59
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.34	0.59
74:o8:65:LEU:HD23	74:o8:68:SER:HB2	1.83	0.59
1:2:1600:A:H4'	1:2:1601:G:OP1	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.35	0.59
36:1:733:G:O2'	36:1:735:A:N6	2.23	0.59
36:1:1035:G:H3'	36:1:1036:A:H8	1.67	0.59
36:1:1495:U:H5	36:1:1835:A:N1	2.00	0.59
1:6:856:A:N6	9:s7:115:SER:O	2.36	0.59
1:6:1186:U:O2'	33:e1:78:LYS:NZ	2.35	0.59
1:6:1597:A:OP1	31:d9:19:ARG:NH2	2.35	0.59
2:s0:142:PRO:HB3	23:d1:34:ILE:HD13	1.84	0.59
36:5:1919:G:N7	86:5:4072:OHX:N4	2.50	0.59
38:8:124:G:OP2	86:8:226:OHX:N2	2.35	0.59
44:l7:144:ILE:HD12	44:l7:189:ILE:HD12	1.84	0.59
1:2:651:G:N7	86:2:2105:OHX:N6	2.50	0.59
1:2:770:A:OP2	86:2:2138:OHX:N6	2.35	0.59
1:2:1748:G:O6	86:2:2106:OHX:N4	2.35	0.59
27:D5:61:SER:H	27:D5:64:VAL:HB	1.67	0.59
36:1:270:U:O2'	36:1:318:A:H1'	2.03	0.59
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.84	0.59
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.83	0.59
53:M7:178:ALA:O	53:M7:182:ILE:HB	2.03	0.59
2:s0:9:LEU:HD23	2:s0:54:TRP:CG	2.37	0.59
5:s3:32:GLU:HG2	5:s3:57:ASP:HB2	1.83	0.59
11:s9:112:GLN:HA	11:s9:115:LYS:HB2	1.84	0.59
25:d3:100:ASP:O	25:d3:101:GLU:HB3	2.01	0.59
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.10	0.59
49:m3:192:GLU:O	49:m3:194:GLU:N	2.35	0.59
54:m8:108:ALA:O	54:m8:110:ALA:N	2.36	0.59
63:n7:46:ILE:HD11	63:n7:49:TYR:CD2	2.37	0.59
67:o1:80:ASN:HA	67:o1:90:PHE:CE2	2.37	0.59
5:S3:141:LYS:HE3	5:S3:179:GLN:HG3	1.83	0.59
6:S4:86:PHE:CE1	6:S4:87:MET:HG2	2.37	0.59
9:S7:25:VAL:O	9:S7:28:GLU:HB2	2.03	0.59
21:C9:5:SER:OG	21:C9:6:VAL:N	2.34	0.59
36:1:599:C:OP1	41:L4:332:LYS:HE3	2.03	0.59
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.29	0.59
1:6:546:U:H2'	1:6:547:U:C6	2.37	0.59
1:6:1040:G:H5''	2:s0:31:VAL:HG21	1.85	0.59
3:s1:47:LEU:HD12	3:s1:47:LEU:H	1.68	0.59
4:s2:45:VAL:HG13	4:s2:72:LEU:HD13	1.85	0.59
4:s2:161:LYS:HE3	4:s2:164:SER:H	1.67	0.59
5:s3:94:ARG:NH2	5:s3:125:TYR:OH	2.33	0.59
7:s5:150:GLY:O	7:s5:152:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:109:VAL:HG11	13:c1:125:VAL:HG11	1.83	0.59
19:c7:33:ARG:NH2	34:sR:109:ASP:OD1	2.34	0.59
35:sM:23:LYS:HZ2	35:sM:24:GLU:H	1.49	0.59
36:5:1595:U:C2	36:5:1596:C:C5	2.91	0.59
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.36	0.59
50:m4:38:ILE:HD12	56:n0:148:LEU:HD13	1.84	0.59
52:m6:56:ASP:O	52:m6:59:ARG:HG3	2.02	0.59
54:m8:135:GLN:CD	54:m8:135:GLN:H	2.10	0.59
60:n4:82:ILE:HB	60:n4:85:ALA:HB3	1.85	0.59
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.02	0.59
36:1:1409:G:N7	86:1:4065:OHX:N3	2.51	0.59
36:1:1577:G:H2'	36:1:1578:C:O4'	2.02	0.59
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.35	0.59
39:L2:79:ASN:O	39:L2:82:VAL:HG13	2.02	0.59
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.82	0.59
59:N3:129:VAL:O	59:N3:133:SER:OG	2.18	0.59
1:6:485:A:C5	1:6:486:G:H1'	2.37	0.59
1:6:1690:G:H1	1:6:1711:C:H42	1.50	0.59
6:s4:151:ASP:OD1	8:s6:215:ARG:NH1	2.36	0.59
69:o3:39:GLN:H	69:o3:39:GLN:CD	2.11	0.59
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.03	0.59
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.35	0.59
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.84	0.59
36:1:1635:G:N2	36:1:1638:A:OP2	2.30	0.59
36:1:2790:A:OP2	54:M8:181:SER:HB3	2.03	0.59
36:1:3043:C:OP2	59:N3:48:ARG:NH2	2.35	0.59
48:M1:54:VAL:O	48:M1:56:THR:N	2.33	0.59
49:M3:124:ILE:HD11	49:M3:126:PHE:CZ	2.37	0.59
70:O4:22:VAL:HG12	70:O4:30:LEU:HD22	1.85	0.59
1:6:217:A:O2'	1:6:218:A:O5'	2.16	0.59
1:6:1244:A:N3	1:6:1244:A:H3'	2.17	0.59
10:s8:69:SER:OG	10:s8:185:GLU:OE2	2.14	0.59
34:sR:115:ILE:HG12	34:sR:119:ALA:HA	1.85	0.59
36:5:211:A:OP1	41:l4:220:ARG:HD2	2.03	0.59
36:5:1789:G:N7	86:5:4198:OHX:N2	2.49	0.59
46:l9:166:ARG:NH2	46:l9:168:ARG:HH12	2.00	0.59
1:2:1015:U:OP1	86:2:2046:OHX:N3	2.36	0.59
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	1.84	0.59
23:D1:71:ARG:HG3	23:D1:83:TRP:CH2	2.38	0.59
35:SM:84:LYS:HD3	35:SM:86:ASN:HB2	1.85	0.59
36:1:271:C:O2	72:O6:82:ARG:NH2	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2298:U:O4	36:1:2923:U:H5	1.85	0.59
86:1:4001:OHX:N3	86:1:4171:OHX:N5	2.51	0.59
59:N3:42:SER:OG	59:N3:43:GLY:N	2.33	0.59
60:N4:1:MET:HE3	60:N4:15:PRO:HD3	1.84	0.59
66:O0:9:SER:OG	66:O0:10:ILE:N	2.32	0.59
9:s7:109:VAL:HG22	9:s7:110:GLN:HB2	1.85	0.59
17:c5:111:MET:HG3	20:c8:119:ILE:HG13	1.83	0.59
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.37	0.59
47:m0:117:GLY:O	86:m0:302:OHX:N6	2.36	0.59
1:2:1248:C:H2'	1:2:1249:U:H6	1.67	0.59
1:2:1637:C:O2'	35:SM:94:HIS:NE2	2.25	0.59
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.02	0.59
21:C9:126:GLU:H	21:C9:126:GLU:CD	2.11	0.59
22:D0:105:GLN:HG3	22:D0:106:ILE:H	1.67	0.59
36:1:1286:A:O2'	36:1:1287:A:OP2	2.14	0.59
36:1:2440:G:H1	36:1:2507:C:H42	1.51	0.59
39:L2:5:ILE:HG12	39:L2:8:GLN:HG3	1.85	0.59
41:L4:257:LYS:O	41:L4:261:VAL:HG23	2.03	0.59
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.35	0.59
64:N8:47:LYS:HE2	64:N8:48:TYR:CZ	2.38	0.59
78:Q2:46:LYS:O	86:Q2:503:OHX:N6	2.36	0.59
1:6:720:G:OP2	1:6:720:G:N2	2.35	0.59
5:s3:64:ARG:HH21	5:s3:65:ARG:HD2	1.66	0.59
6:s4:11:ARG:HB2	6:s4:27:TYR:C	2.28	0.59
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.38	0.59
7:s5:43:PHE:N	7:s5:46:TRP:O	2.34	0.59
20:c8:33:THR:HA	20:c8:38:VAL:HG22	1.85	0.59
21:c9:28:LEU:O	21:c9:29:GLU:HB2	2.02	0.59
36:5:1596:C:H2'	36:5:1597:C:C6	2.38	0.59
36:5:3049:A:C2	40:l3:75:ALA:HB2	2.38	0.59
42:l5:278:SER:O	42:l5:280:GLU:N	2.36	0.59
47:m0:177:ASP:OD2	47:m0:177:ASP:N	2.36	0.59
52:m6:7:VAL:HG23	52:m6:31:GLN:NE2	2.18	0.59
64:n8:73:LEU:HB2	64:n8:109:TYR:CD2	2.38	0.59
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.03	0.59
1:2:788:A:H3'	6:S4:108:ARG:HH22	1.68	0.58
8:S6:43:ASP:N	8:S6:43:ASP:OD1	2.36	0.58
11:S9:36:LEU:O	32:E0:33:ARG:HG3	2.02	0.58
21:C9:28:LEU:HB2	21:C9:30:VAL:HG13	1.85	0.58
21:C9:57:ARG:HG3	21:C9:57:ARG:HH11	1.67	0.58
25:D3:27:ASN:O	25:D3:31:LYS:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:73:ARG:HH21	25:D3:84:THR:HG22	1.67	0.58
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.51	0.58
36:1:1171:G:O6	86:1:3955:OHX:N2	2.36	0.58
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.84	0.58
45:L8:186:LEU:HA	45:L8:189:LEU:HD23	1.83	0.58
62:N6:37:LYS:HE2	62:N6:37:LYS:H	1.67	0.58
1:6:486:G:O6	1:6:488:G:N2	2.35	0.58
2:s0:112:THR:HG23	2:s0:115:PHE:H	1.67	0.58
41:l4:229:ASN:OD1	41:l4:231:ALA:N	2.35	0.58
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.85	0.58
48:m1:155:THR:O	48:m1:159:THR:HG23	2.02	0.58
6:S4:227:VAL:O	6:S4:228:ILE:HG12	2.02	0.58
36:1:1069:C:H2'	36:1:1070:U:H6	1.68	0.58
36:1:1915:A:H2'	36:1:1916:U:C6	2.38	0.58
36:1:2318:U:O4	86:1:4038:OHX:N2	2.36	0.58
36:1:3043:C:P	59:N3:48:ARG:HH22	2.26	0.58
36:1:3085:G:OP2	86:1:3884:OHX:N2	2.37	0.58
38:4:103:G:O6	86:4:226:OHX:N4	2.36	0.58
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.27	0.58
68:O2:34:LYS:O	68:O2:36:LYS:NZ	2.34	0.58
69:O3:39:GLN:H	69:O3:39:GLN:CD	2.11	0.58
70:O4:8:ARG:HG2	70:O4:8:ARG:NH1	2.07	0.58
72:O6:25:LYS:HB2	72:O6:28:TYR:CD2	2.38	0.58
1:6:711:U:H5'	1:6:712:G:OP2	2.02	0.58
5:s3:42:THR:OG1	5:s3:44:THR:O	2.21	0.58
7:s5:55:ASP:O	7:s5:57:SER:N	2.34	0.58
15:c3:72:MET:HA	15:c3:75:LEU:HD13	1.85	0.58
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.35	0.58
19:c7:71:PHE:CE1	19:c7:74:GLN:HB2	2.38	0.58
27:d5:104:ALA:O	27:d5:105:THR:OG1	2.20	0.58
33:e1:88:PRO:HB2	33:e1:89:LYS:HZ2	1.68	0.58
42:l5:122:VAL:HG23	42:l5:123:GLU:H	1.68	0.58
43:l6:68:PRO:HD2	43:l6:71:VAL:HG21	1.85	0.58
46:l9:163:GLN:O	46:l9:166:ARG:HG3	2.04	0.58
57:n1:30:TYR:OH	57:n1:94:GLU:OE2	2.12	0.58
57:n1:132:PRO:O	57:n1:134:GLN:HG2	2.03	0.58
1:2:814:A:OP1	55:M9:170:ARG:NH2	2.35	0.58
36:1:1024:G:N7	86:1:4164:OHX:N6	2.50	0.58
36:1:1752:A:OP2	86:1:4046:OHX:N5	2.36	0.58
1:6:1735:U:O4	86:6:2123:OHX:N5	2.37	0.58
10:s8:11:ARG:NH1	10:s8:15:GLY:O	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:57:LEU:HD12	18:c6:57:LEU:H	1.68	0.58
24:d2:20:THR:HB	24:d2:22:LYS:HD3	1.83	0.58
26:d4:12:VAL:HG13	26:d4:23:PHE:HB3	1.85	0.58
36:5:304:G:N3	36:5:304:G:H5'	2.17	0.58
86:5:4021:OHX:N3	86:5:4217:OHX:N1	2.51	0.58
82:p0:48:ARG:HE	82:p0:91:GLU:N	2.00	0.58
1:2:734:A:H5''	1:2:735:C:OP1	2.03	0.58
1:2:851:U:H2'	1:2:852:C:C6	2.38	0.58
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.85	0.58
24:D2:11:LEU:HD12	24:D2:74:VAL:HB	1.85	0.58
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.36	0.58
36:1:2947:G:OP2	36:1:2947:G:H4'	2.02	0.58
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.37	0.58
44:L7:222:HIS:ND1	44:L7:224:ILE:HG12	2.18	0.58
45:L8:133:LYS:HG3	45:L8:201:THR:HG23	1.84	0.58
52:M6:3:VAL:HG13	52:M6:4:GLU:OE1	2.03	0.58
57:N1:17:ARG:O	57:N1:18:ASP:HB2	2.03	0.58
78:Q2:63:LYS:HD2	78:Q2:87:ARG:NH1	2.18	0.58
1:6:1424:A:H2'	1:6:1425:A:O4'	2.04	0.58
8:s6:67:VAL:CG2	8:s6:99:GLY:HA2	2.33	0.58
36:5:10:C:O2'	36:5:1558:A:N6	2.33	0.58
36:5:228:U:H5''	62:n6:8:VAL:HG11	1.84	0.58
36:5:1329:U:O2'	36:5:1330:A:O5'	2.21	0.58
36:5:2299:A:OP2	86:5:3961:OHX:N1	2.37	0.58
39:l2:118:GLU:HG3	39:l2:126:LEU:HD21	1.86	0.58
82:p0:190:VAL:HB	82:p0:197:PHE:HB2	1.85	0.58
3:S1:137:ILE:HD11	3:S1:172:LEU:HB3	1.85	0.58
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.68	0.58
28:D6:19:LYS:HG3	28:D6:20:PRO:HD2	1.84	0.58
29:D7:35:VAL:HG11	29:D7:63:LEU:HD21	1.85	0.58
36:1:600:G:N7	86:1:4095:OHX:N1	2.50	0.58
36:1:3113:A:H4'	46:L9:69:ARG:HB3	1.84	0.58
1:6:1556:A:OP1	17:c5:115:TYR:OH	2.18	0.58
10:s8:61:GLU:HG3	10:s8:77:ARG:HE	1.68	0.58
36:5:339:C:OP1	36:5:1380:G:O2'	2.21	0.58
36:5:1614:C:H2'	36:5:1615:C:H6	1.67	0.58
36:5:1831:U:H2'	36:5:1832:C:C6	2.38	0.58
38:8:38:U:C5	71:o5:83:LYS:HA	2.37	0.58
40:l3:47:LEU:HD21	40:l3:179:ALA:HB3	1.85	0.58
40:l3:205:VAL:HA	40:l3:208:VAL:HG23	1.85	0.58
40:l3:284:ARG:HB2	40:l3:284:ARG:HH11	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:12:VAL:HG13	46:l9:16:VAL:HG22	1.85	0.58
50:m4:47:ASP:CG	50:m4:55:ARG:HB2	2.28	0.58
23:D1:64:GLU:OE1	29:D7:3:LEU:HB2	2.04	0.58
33:E1:102:VAL:O	33:E1:104:SER:N	2.36	0.58
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.37	0.58
36:1:900:G:H1'	36:1:1589:A:N6	2.19	0.58
36:1:1924:U:OP1	77:Q1:25:LYS:NZ	2.30	0.58
36:1:2102:U:H2'	36:1:2103:U:C6	2.38	0.58
86:1:3966:OHX:N1	38:4:31:G:OP2	2.37	0.58
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	1.86	0.58
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.38	0.58
5:s3:22:ASN:OD1	5:s3:34:TYR:OH	2.19	0.58
10:s8:36:THR:HB	10:s8:57:ALA:O	2.03	0.58
24:d2:53:ILE:HD13	29:d7:24:LEU:HD11	1.85	0.58
36:5:1221:A:O3'	82:p0:8:LYS:NZ	2.35	0.58
47:m0:26:VAL:HG11	47:m0:96:VAL:HG21	1.86	0.58
51:m5:21:PHE:O	51:m5:25:VAL:HG23	2.04	0.58
63:n7:77:TYR:HD2	66:o0:35:ARG:HD2	1.68	0.58
1:2:25:C:OP2	1:2:25:C:H4'	2.03	0.58
1:2:530:C:O2	26:D4:61:ARG:NH2	2.36	0.58
1:2:694:U:H3'	1:2:695:U:C6	2.39	0.58
1:2:1178:G:H2'	1:2:1179:G:O4'	2.04	0.58
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.85	0.58
14:C2:126:TRP:O	14:C2:128:ALA:N	2.37	0.58
20:C8:126:ARG:HG2	20:C8:133:VAL:HA	1.85	0.58
30:D8:32:PHE:HE2	30:D8:38:ARG:HB3	1.69	0.58
36:1:2669:G:N7	86:1:4069:OHX:N4	2.52	0.58
36:1:2768:U:H2'	36:1:2769:A:C8	2.38	0.58
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.03	0.58
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.86	0.58
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	1.86	0.58
1:6:1098:U:H6	1:6:1098:U:H5''	1.69	0.58
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.86	0.58
3:s1:77:GLU:OE1	16:c4:114:ARG:NH2	2.36	0.58
7:s5:43:PHE:HB3	7:s5:46:TRP:HD1	1.68	0.58
9:s7:63:PRO:O	9:s7:64:VAL:HB	2.04	0.58
12:c0:24:LYS:HD2	12:c0:63:TYR:CZ	2.38	0.58
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.36	0.58
20:c8:140:THR:HA	20:c8:143:ARG:NH1	2.18	0.58
36:5:76:G:N7	49:m3:101:ARG:HB2	2.19	0.58
36:5:955:U:H2'	36:5:956:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2674:A:C2	48:m1:124:GLY:HA3	2.39	0.58
69:o3:73:ARG:HG3	69:o3:82:ARG:HD2	1.86	0.58
84:p2:16:UNK:O	84:p2:18:UNK:N	2.36	0.58
1:2:916:U:H3	16:C4:41:ARG:NH2	2.01	0.58
1:2:959:U:H6	15:C3:61:THR:HB	1.69	0.58
1:2:1504:G:H2'	1:2:1505:A:C8	2.39	0.58
3:S1:184:LEU:HA	3:S1:187:LYS:HB2	1.84	0.58
8:S6:163:THR:HG22	8:S6:168:THR:HG22	1.85	0.58
9:S7:125:ILE:O	9:S7:129:LEU:N	2.32	0.58
13:C1:5:LEU:O	13:C1:7:VAL:N	2.30	0.58
16:C4:112:ILE:H	28:D6:57:SER:HA	1.69	0.58
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.85	0.58
36:1:108:A:O2'	36:1:109:A:H2'	2.03	0.58
36:1:829:U:H3	36:1:895:A:H62	1.52	0.58
74:O8:63:LYS:HG2	74:O8:64:LYS:HD2	1.86	0.58
1:6:66:U:C5	8:s6:173:PRO:HG3	2.39	0.58
1:6:1438:G:O2'	5:s3:179:GLN:NE2	2.36	0.58
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.68	0.58
36:5:528:U:H2'	36:5:529:A:H8	1.69	0.58
36:5:566:G:N7	86:5:4131:OHX:N5	2.51	0.58
36:5:953:G:H2'	36:5:1117:G:H5''	1.85	0.58
49:m3:94:GLY:HA3	49:m3:119:TYR:OH	2.03	0.58
78:q2:17:CYS:SG	78:q2:77:CYS:HB3	2.44	0.58
1:2:197:A:H61	10:S8:138:ASN:ND2	2.02	0.58
1:2:855:A:C2	1:2:857:U:H1'	2.38	0.58
1:2:886:U:O2	16:C4:123:SER:N	2.33	0.58
11:S9:122:VAL:O	11:S9:125:ALA:HB3	2.04	0.58
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.77	0.58
31:D9:5:ASN:OD1	31:D9:7:TRP:NE1	2.31	0.58
36:1:249:U:H1'	36:1:250:U:O2	2.03	0.58
36:1:597:G:H2'	36:1:598:A:H8	1.69	0.58
36:1:1443:G:O6	86:1:3974:OHX:N3	2.35	0.58
37:3:22:A:H2'	37:3:23:A:C8	2.39	0.58
41:L4:209:TYR:CZ	41:L4:229:ASN:HB2	2.38	0.58
1:6:1010:C:OP2	86:6:2170:OHX:N3	2.36	0.58
1:6:1657:U:O2'	1:6:1658:G:OP2	2.18	0.58
9:s7:114:ARG:O	9:s7:117:THR:HB	2.04	0.58
13:c1:8:GLN:HE22	13:c1:14:GLN:H	1.51	0.58
25:d3:96:VAL:HB	25:d3:127:VAL:HG21	1.85	0.58
36:5:181:U:H1'	36:5:236:G:H22	1.68	0.58
36:5:1804:A:H2'	36:5:1805:C:H6	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1952:G:H1	36:5:2094:C:H42	1.52	0.58
41:14:26:PHE:HE2	41:14:258:LEU:HD23	1.69	0.58
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.85	0.58
1:2:1153:G:H5'	28:D6:85:ARG:HD3	1.86	0.58
1:2:1320:U:O2	1:2:1322:A:H5'	2.04	0.58
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.14	0.58
40:L3:71:GLU:OE1	40:L3:357:LYS:NZ	2.34	0.58
41:L4:3:ARG:NH1	41:L4:22:LEU:HD12	2.15	0.58
50:M4:38:ILE:HD11	56:N0:150:PHE:CE2	2.38	0.58
61:N5:80:ASN:ND2	61:N5:126:LEU:HB2	2.18	0.58
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.39	0.58
77:Q1:2:ARG:HG2	77:Q1:4:LYS:HG2	1.84	0.58
1:6:1555:A:O2'	17:c5:82:ASN:ND2	2.30	0.58
9:s7:66:SER:O	9:s7:69:GLY:N	2.25	0.58
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.39	0.58
36:5:1493:G:O6	75:o9:2:ALA:N	2.37	0.58
52:m6:98:ALA:HA	52:m6:101:ARG:NH1	2.18	0.58
60:n4:38:SER:O	60:n4:42:GLN:HG3	2.04	0.58
1:2:1670:G:N7	86:2:2124:OHX:N5	2.52	0.57
4:S2:41:LEU:HD12	4:S2:68:ILE:HD13	1.86	0.57
6:S4:77:ARG:HD3	6:S4:82:TYR:CZ	2.39	0.57
22:D0:22:ILE:HD12	22:D0:118:VAL:HG23	1.86	0.57
27:D5:92:ILE:HG23	27:D5:100:ILE:HG22	1.86	0.57
42:L5:234:ASP:OD2	42:L5:234:ASP:N	2.34	0.57
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.04	0.57
59:N3:54:LEU:HD11	59:N3:119:GLY:HA3	1.85	0.57
68:O2:35:GLN:HB2	68:O2:43:ARG:HB2	1.86	0.57
78:Q2:71:ARG:HH21	78:Q2:80:ARG:NH1	2.02	0.57
1:6:213:A:OP2	86:6:2149:OHX:N1	2.38	0.57
7:s5:58:LEU:HD11	7:s5:167:ARG:NH1	2.19	0.57
8:s6:49:VAL:HG11	8:s6:115:LYS:HE2	1.84	0.57
10:s8:120:THR:O	86:s8:303:OHX:N4	2.37	0.57
20:c8:145:ARG:HG3	35:sM:68:ARG:NH2	2.14	0.57
36:5:601:U:H2'	36:5:602:A:O4'	2.04	0.57
36:5:3341:U:H5''	36:5:3342:A:OP2	2.04	0.57
37:7:121:U:H5'	42:l5:260:PHE:CE2	2.39	0.57
86:8:219:OHX:N2	86:8:227:OHX:N4	2.51	0.57
39:l2:103:PRO:O	39:l2:105:GLY:N	2.37	0.57
64:n8:6:THR:HG22	64:n8:9:ARG:HG2	1.86	0.57
1:2:71:A:H2'	1:2:72:A:O4'	2.03	0.57
1:2:886:U:O2'	16:C4:121:VAL:O	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1650:U:H2'	1:2:1651:A:C8	2.39	0.57
1:2:1683:C:O2'	1:2:1684:U:O5'	2.21	0.57
3:S1:105:PHE:H	3:S1:214:LYS:HE2	1.69	0.57
7:S5:153:GLY:O	7:S5:155:ALA:N	2.37	0.57
11:S9:186:GLU:OE1	11:S9:186:GLU:N	2.37	0.57
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.86	0.57
36:1:603:A:H2'	36:1:604:G:O4'	2.04	0.57
36:1:1815:U:O2'	36:1:1816:A:OP2	2.20	0.57
36:1:1933:A:OP2	86:1:3882:OHX:N6	2.38	0.57
36:1:2296:A:OP1	86:1:4147:OHX:N2	2.37	0.57
36:1:2689:A:N3	36:1:2689:A:H2'	2.19	0.57
36:1:3268:A:OP1	43:L6:46:ARG:NH2	2.37	0.57
59:N3:40:LYS:HD2	59:N3:59:MET:HE2	1.86	0.57
1:6:339:C:H2'	1:6:340:U:H6	1.69	0.57
34:sR:26:SER:OG	34:sR:75:ALA:O	2.21	0.57
34:sR:307:ASP:OD2	34:sR:311:ARG:NH2	2.27	0.57
36:5:174:C:N4	36:5:244:G:H1	2.02	0.57
36:5:1152:G:H8	36:5:1152:G:O5'	1.87	0.57
86:5:3979:OHX:N4	86:5:4199:OHX:N3	2.52	0.57
38:8:38:U:H5	71:o5:83:LYS:HA	1.68	0.57
41:l4:299:ILE:CG2	54:m8:39:ARG:HE	2.17	0.57
42:l5:85:ARG:NH2	42:l5:252:ALA:O	2.37	0.57
50:m4:109:ARG:HD3	52:m6:199:TYR:CZ	2.38	0.57
51:m5:114:ARG:HG2	51:m5:137:PRO:HG3	1.85	0.57
56:n0:62:ASN:OD1	56:n0:62:ASN:N	2.36	0.57
74:o8:11:PHE:HD1	74:o8:12:LEU:HD22	1.69	0.57
79:q3:74:ALA:O	79:q3:78:THR:HG23	2.04	0.57
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	2.35	0.57
7:S5:145:ASP:OD2	7:S5:146:THR:N	2.26	0.57
14:C2:75:VAL:HG21	14:C2:120:VAL:HG21	1.86	0.57
36:1:816:A:H5'	36:1:906:A:N6	2.20	0.57
38:4:68:G:OP2	86:O7:104:OHX:N6	2.36	0.57
40:L3:150:ARG:HG2	40:L3:150:ARG:HH11	1.68	0.57
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.85	0.57
47:M0:76:MET:CE	47:M0:148:VAL:HG13	2.34	0.57
1:6:461:G:OP1	11:s9:2:PRO:HD2	2.03	0.57
1:6:831:U:O2'	1:6:832:U:O5'	2.21	0.57
1:6:1458:G:H5''	1:6:1459:C:OP2	2.04	0.57
1:6:1765:A:OP1	86:6:2126:OHX:N2	2.38	0.57
1:6:1783:C:H2'	1:6:1784:C:H6	1.68	0.57
3:s1:113:MET:HE3	3:s1:209:ASN:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:21:ASN:OD1	15:c3:21:ASN:N	2.37	0.57
25:d3:125:VAL:HG12	25:d3:126:LYS:HG3	1.87	0.57
36:5:507:U:H2'	36:5:508:U:C6	2.39	0.57
36:5:1716:U:O2'	36:5:1717:U:O5'	2.20	0.57
36:5:2278:C:OP1	86:5:4090:OHX:N6	2.37	0.57
36:5:2827:U:O4	86:5:3902:OHX:N6	2.38	0.57
37:7:55:A:H2'	37:7:56:A:O4'	2.04	0.57
41:l4:145:ILE:O	86:l4:402:OHX:N3	2.37	0.57
41:l4:295:ILE:HG22	41:l4:299:ILE:HD11	1.86	0.57
42:l5:60:ILE:HB	42:l5:80:SER:HB3	1.86	0.57
50:m4:13:ARG:HD2	50:m4:65:LEU:O	2.04	0.57
82:p0:19:LEU:HD22	82:p0:73:PHE:CE1	2.39	0.57
1:2:1420:C:OP1	31:D9:54:LYS:NZ	2.37	0.57
6:S4:158:ASP:OD2	6:S4:174:LYS:NZ	2.37	0.57
7:S5:42:LEU:HD21	7:S5:45:LYS:HD2	1.85	0.57
36:1:147:U:O4	45:L8:157:VAL:HA	2.05	0.57
36:1:1014:U:H2'	36:1:1015:U:H5''	1.87	0.57
36:1:1094:U:H1'	36:1:1096:U:H2'	1.86	0.57
39:L2:30:ARG:NH2	39:L2:33:ASP:OD2	2.38	0.57
46:L9:105:GLU:HA	46:L9:109:ALA:HB3	1.86	0.57
69:O3:67:MET:HE1	69:O3:90:PRO:CD	2.34	0.57
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.04	0.57
3:s1:119:THR:HB	3:s1:143:THR:HG23	1.86	0.57
4:s2:179:VAL:O	4:s2:198:THR:OG1	2.21	0.57
9:s7:51:VAL:HG23	9:s7:53:GLY:H	1.69	0.57
16:c4:103:ARG:HH22	28:d6:48:ALA:HB1	1.69	0.57
28:d6:10:ARG:HD3	28:d6:34:LYS:HA	1.86	0.57
36:5:2244:A:H5''	39:l2:243:THR:OG1	2.05	0.57
86:5:4021:OHX:N6	86:5:4217:OHX:N4	2.52	0.57
1:2:694:U:H5''	1:2:695:U:H5	1.69	0.57
1:2:778:G:H3'	1:2:780:A:H2	1.69	0.57
1:2:1266:U:H2'	1:2:1267:G:C8	2.39	0.57
1:2:1486:G:H1'	1:2:1592:A:O2'	2.04	0.57
1:2:1760:G:C2'	1:2:1761:U:H5'	2.34	0.57
3:S1:40:ASN:O	3:S1:40:ASN:ND2	2.38	0.57
3:S1:58:SER:HA	3:S1:62:LYS:HD3	1.86	0.57
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.39	0.57
5:S3:40:ARG:HG2	22:D0:110:PRO:HB3	1.87	0.57
5:S3:45:LYS:HD2	5:S3:85:VAL:HG21	1.87	0.57
9:S7:32:PRO:HD2	9:S7:34:LEU:HB2	1.87	0.57
21:C9:52:GLY:C	21:C9:54:PHE:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.86	0.57
36:1:595:G:N1	36:1:609:G:H5''	2.19	0.57
36:1:742:G:N7	86:1:3972:OHX:N1	2.53	0.57
36:1:1093:A:N3	36:1:1096:U:N3	2.52	0.57
36:1:1352:A:H4'	36:1:1353:U:OP1	2.02	0.57
86:1:4001:OHX:N6	86:1:4171:OHX:N1	2.53	0.57
44:L7:125:GLU:HA	44:L7:128:LYS:HG3	1.87	0.57
50:M4:84:LYS:O	50:M4:87:ALA:HB3	2.03	0.57
1:6:579:A:N1	5:s3:144:ALA:HB2	2.19	0.57
5:s3:222:VAL:HG11	34:sR:229:LYS:HA	1.87	0.57
20:c8:145:ARG:CG	35:sM:68:ARG:HH22	2.15	0.57
30:d8:27:GLN:HE22	30:d8:64:ARG:HD2	1.69	0.57
36:5:701:G:H2'	36:5:702:C:C6	2.39	0.57
36:5:2841:G:OP2	86:5:4138:OHX:N1	2.38	0.57
36:5:3112:G:O2'	46:l9:70:THR:HB	2.04	0.57
37:7:91:G:H2'	37:7:92:A:H8	1.69	0.57
39:l2:27:ALA:O	39:l2:128:ARG:NH2	2.37	0.57
41:l4:191:LYS:HG3	41:l4:194:TYR:CZ	2.40	0.57
45:l8:187:GLY:HA2	45:l8:195:SER:HB2	1.86	0.57
57:n1:131:GLN:HG3	57:n1:132:PRO:HD2	1.85	0.57
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.05	0.57
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.86	0.57
68:o2:11:LYS:O	68:o2:12:LYS:HB2	2.04	0.57
71:o5:31:LEU:O	71:o5:35:LYS:N	2.33	0.57
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.37	0.57
1:2:1166:A:H5''	7:S5:101:GLY:H	1.69	0.57
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.40	0.57
8:S6:67:VAL:HG23	8:S6:100:ALA:H	1.69	0.57
10:S8:58:LEU:O	10:S8:59:ARG:HB2	2.05	0.57
17:C5:22:LEU:HD13	17:C5:26:LEU:HD11	1.85	0.57
36:1:743:C:N3	54:M8:141:ARG:NH1	2.53	0.57
36:1:841:A:OP2	86:1:4174:OHX:N2	2.37	0.57
36:1:2107:A:C2	36:1:3344:A:H8	2.23	0.57
36:1:2636:A:H5''	36:1:2637:A:C5'	2.34	0.57
39:L2:139:HIS:HB3	39:L2:146:THR:HA	1.86	0.57
48:M1:107:ASP:HA	48:M1:124:GLY:HA2	1.86	0.57
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.39	0.57
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.04	0.57
6:s4:86:PHE:HE2	6:s4:102:VAL:HG23	1.69	0.57
35:sM:52:PRO:O	35:sM:54:PRO:HD3	2.04	0.57
36:5:595:G:H1	36:5:609:G:H5''	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1386:A:N7	41:14:183:LYS:HE3	2.19	0.57
42:15:39:GLN:OE1	42:15:40:HIS:N	2.37	0.57
42:15:184:ASP:OD2	42:15:187:THR:OG1	2.22	0.57
1:2:542:A:C8	1:2:543:C:H5'	2.37	0.57
1:2:622:A:H4'	1:2:623:A:OP1	2.04	0.57
11:S9:74:ASN:HA	11:S9:77:ILE:HD12	1.87	0.57
26:D4:81:GLU:HA	26:D4:84:LYS:HG2	1.86	0.57
36:1:249:U:O2'	36:1:250:U:N3	2.36	0.57
41:L4:181:VAL:O	41:L4:182:LEU:HB2	2.05	0.57
42:L5:115:LEU:H	42:L5:115:LEU:HD22	1.69	0.57
1:6:151:G:N2	8:s6:13:GLN:OE1	2.35	0.57
2:s0:41:ARG:HG2	2:s0:42:PRO:HD2	1.87	0.57
16:c4:70:LYS:NZ	16:c4:73:GLU:OE2	2.37	0.57
18:c6:49:TYR:HB3	18:c6:53:LEU:HD21	1.87	0.57
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.30	0.57
45:l8:86:THR:O	45:l8:90:THR:HG23	2.03	0.57
56:n0:82:ASP:OD1	56:n0:87:THR:HB	2.04	0.57
9:S7:42:GLN:HG2	9:S7:43:PHE:N	2.19	0.57
19:C7:20:TYR:CD1	19:C7:38:ILE:HD11	2.40	0.57
36:1:1194:G:OP1	86:1:3960:OHX:N1	2.37	0.57
36:1:1637:A:OP2	63:N7:73:LYS:NZ	2.38	0.57
36:1:3082:C:H2'	36:1:3083:G:C8	2.40	0.57
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.87	0.57
1:6:66:U:H4'	1:6:67:A:OP1	2.03	0.57
1:6:578:U:O2	86:6:2153:OHX:N3	2.38	0.57
1:6:1697:G:H8	1:6:1705:C:C2	2.23	0.57
4:s2:140:ARG:NH1	23:d1:10:GLU:OE1	2.36	0.57
5:s3:62:ASN:ND2	5:s3:62:ASN:O	2.37	0.57
11:s9:134:ILE:HD13	11:s9:141:VAL:O	2.04	0.57
33:e1:82:LYS:O	33:e1:84:VAL:N	2.36	0.57
36:5:1110:U:H2'	36:5:1111:U:C6	2.40	0.57
36:5:1719:G:OP1	55:m9:110:ARG:NH1	2.37	0.57
37:7:121:U:H5''	42:l5:265:TYR:HE1	1.69	0.57
46:l9:77:ASN:HA	46:l9:80:THR:HG23	1.84	0.57
59:n3:10:LYS:NZ	59:n3:56:ASP:OD1	2.35	0.57
1:2:83:G:OP2	86:2:2067:OHX:N5	2.38	0.57
1:2:901:G:H22	16:C4:54:GLU:CD	2.12	0.57
18:C6:23:LYS:HG3	18:C6:64:ASP:HB2	1.86	0.57
19:C7:24:LEU:HD23	19:C7:34:LEU:HD13	1.86	0.57
34:SR:258:THR:HG22	34:SR:275:ARG:HD3	1.87	0.57
36:1:73:C:C2	49:M3:59:ARG:HD3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:624:G:OP2	86:1:4131:OHX:N3	2.37	0.57
36:1:1650:G:O6	86:1:4137:OHX:N2	2.37	0.57
37:3:4:U:H2'	37:3:5:G:H8	1.66	0.57
46:L9:10:ILE:HD13	46:L9:75:VAL:HB	1.86	0.57
50:M4:24:LYS:HE2	50:M4:25:LYS:HE2	1.85	0.57
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	1.87	0.57
63:N7:74:VAL:HG23	63:N7:101:PHE:CE1	2.39	0.57
73:O7:58:THR:O	73:O7:61:THR:HG23	2.05	0.57
1:6:513:U:H2'	1:6:514:G:C8	2.40	0.57
1:6:557:G:OP1	80:e0:55:ARG:NH1	2.38	0.57
1:6:1795:U:H3	28:d6:10:ARG:HD2	1.70	0.57
86:6:2059:OHX:N2	86:6:2146:OHX:N4	2.53	0.57
36:5:22:G:H1'	38:8:104:A:N3	2.18	0.57
36:5:1717:U:H2'	36:5:1718:G:C8	2.39	0.57
36:5:1888:U:OP1	40:l3:247:ARG:NH1	2.34	0.57
36:5:3276:G:O2'	43:l6:48:ARG:NH2	2.38	0.57
41:l4:283:THR:HG21	41:l4:288:ARG:HH12	1.70	0.57
46:l9:4:ILE:HG23	46:l9:5:GLN:N	2.20	0.57
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.69	0.57
11:S9:38:ASN:HB2	11:S9:41:GLU:H	1.70	0.57
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.70	0.57
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.39	0.57
28:D6:60:PRO:C	28:D6:62:TYR:H	2.12	0.57
52:M6:190:VAL:O	52:M6:194:LEU:HD12	2.05	0.57
66:O0:26:GLY:O	66:O0:30:THR:HG23	2.04	0.57
1:6:595:G:H2'	1:6:596:C:C6	2.40	0.57
1:6:647:G:N2	1:6:687:G:H22	2.02	0.57
1:6:886:U:O2'	16:c4:121:VAL:O	2.22	0.57
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.34	0.57
36:5:1204:A:H2'	36:5:1205:A:H5'	1.87	0.57
36:5:2279:A:O5'	36:5:2280:A:H5'	2.05	0.57
46:l9:162:GLN:HB2	46:l9:179:ILE:O	2.04	0.57
57:n1:7:TYR:OH	57:n1:54:HIS:HB2	2.05	0.57
57:n1:124:VAL:HG12	57:n1:125:ALA:H	1.68	0.57
59:n3:87:ARG:HH22	59:n3:137:VAL:HG22	1.68	0.57
82:p0:40:GLU:HB2	82:p0:104:ARG:HG3	1.87	0.57
1:2:7:G:O6	4:S2:205:ARG:NH2	2.38	0.56
1:2:176:C:OP1	86:2:2074:OHX:N3	2.38	0.56
1:2:789:A:OP1	6:S4:108:ARG:NH2	2.38	0.56
1:2:1329:A:H8	1:2:1329:A:O5'	1.88	0.56
7:S5:32:GLU:CD	7:S5:32:GLU:H	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:30:VAL:HG12	21:C9:54:PHE:CD2	2.40	0.56
36:1:2986:U:H2'	36:1:2987:A:H8	1.70	0.56
51:M5:74:PRO:O	51:M5:75:VAL:HG22	2.05	0.56
51:M5:149:ASN:OD1	86:M5:303:OHX:N2	2.38	0.56
60:N4:5:ILE:HD12	60:N4:10:GLY:HA2	1.87	0.56
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.05	0.56
62:N6:83:ASP:O	62:N6:84:LYS:HB2	2.05	0.56
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.05	0.56
7:s5:55:ASP:C	7:s5:57:SER:H	2.13	0.56
13:c1:93:TYR:HB2	13:c1:100:TYR:CE1	2.39	0.56
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	1.87	0.56
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.70	0.56
37:7:64:A:N1	47:m0:202:LYS:HD3	2.20	0.56
41:l4:299:ILE:HG21	54:m8:39:ARG:HH21	1.68	0.56
56:n0:79:VAL:HG21	56:n0:106:LEU:HD21	1.86	0.56
75:o9:26:TRP:HA	75:o9:29:LEU:HD23	1.87	0.56
1:2:531:C:OP2	86:2:2071:OHX:N4	2.37	0.56
1:2:1428:G:H5'	1:2:1428:G:C8	2.39	0.56
5:S3:38:GLU:OE1	5:S3:40:ARG:NE	2.27	0.56
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	1.85	0.56
17:C5:71:GLU:HG2	17:C5:72:LYS:H	1.69	0.56
36:1:62:A:H2'	36:1:63:A:H8	1.70	0.56
36:1:92:G:OP2	36:1:93:C:H5''	2.05	0.56
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.37	0.56
36:1:2392:C:HO2'	40:L3:266:ARG:HH22	1.50	0.56
49:M3:87:ALA:O	49:M3:91:ARG:HG3	2.05	0.56
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.86	0.56
68:O2:12:LYS:HD3	68:O2:57:TYR:O	2.04	0.56
1:6:947:U:H2'	1:6:948:G:C8	2.40	0.56
2:s0:175:TYR:HE1	2:s0:197:ILE:HG22	1.71	0.56
18:c6:109:PHE:O	18:c6:113:ASP:N	2.37	0.56
36:5:1796:G:H5''	36:5:1797:A:OP1	2.05	0.56
36:5:2509:U:H2'	36:5:2510:U:H5''	1.87	0.56
36:5:2921:U:H2'	36:5:2923:U:H5''	1.85	0.56
36:5:3155:U:OP1	86:5:4226:OHX:N2	2.37	0.56
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.30	0.56
42:l5:83:LEU:HD13	42:l5:88:ILE:HG13	1.86	0.56
52:m6:110:PRO:O	52:m6:111:PRO:C	2.48	0.56
62:n6:74:TYR:CZ	62:n6:77:LYS:HD2	2.40	0.56
1:2:109:G:H1	1:2:305:C:H42	1.52	0.56
1:2:452:A:H3'	1:2:453:U:C5	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:49:ASN:CB	2:S0:52:LYS:HG3	2.36	0.56
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.05	0.56
7:S5:205:SER:O	7:S5:207:THR:N	2.32	0.56
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.87	0.56
12:C0:8:ARG:HD2	12:C0:12:HIS:HE1	1.69	0.56
34:SR:273:ASP:OD1	34:SR:275:ARG:NH1	2.36	0.56
36:1:2371:G:O6	86:1:3870:OHX:N3	2.38	0.56
36:1:2818:U:H5'	36:1:2818:U:C6	2.30	0.56
36:1:3276:G:O6	53:M7:171:ARG:NH1	2.38	0.56
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.04	0.56
56:N0:96:ASP:OD1	56:N0:97:VAL:N	2.39	0.56
59:N3:87:ARG:NH2	59:N3:137:VAL:HG21	2.19	0.56
62:N6:111:LEU:HD23	62:N6:116:LYS:HG3	1.88	0.56
74:O8:32:ASN:O	74:O8:32:ASN:ND2	2.36	0.56
1:6:320:U:H2'	1:6:321:C:C2	2.40	0.56
1:6:453:U:O4	86:6:2061:OHX:N4	2.38	0.56
1:6:767:U:C5	11:s9:143:ILE:HD12	2.40	0.56
1:6:1603:U:H2'	1:6:1604:U:H6	1.68	0.56
1:6:1672:G:H2'	1:6:1673:G:C8	2.40	0.56
7:s5:64:VAL:HG13	7:s5:89:ILE:HD11	1.85	0.56
9:s7:75:THR:O	9:s7:79:ARG:HB2	2.05	0.56
10:s8:114:GLU:OE2	10:s8:121:LEU:N	2.37	0.56
11:s9:29:LYS:O	11:s9:33:GLU:HG2	2.05	0.56
15:c3:46:THR:O	15:c3:50:ILE:HG13	2.06	0.56
17:c5:33:PHE:O	17:c5:36:LEU:HD22	2.05	0.56
22:d0:18:GLN:O	22:d0:96:PRO:HB3	2.05	0.56
26:d4:55:VAL:HG12	26:d4:75:VAL:HG22	1.88	0.56
27:d5:60:VAL:HG13	27:d5:101:TYR:HB2	1.86	0.56
34:sR:20:VAL:HG11	34:sR:310:ILE:HG23	1.86	0.56
36:5:790:U:H4'	41:l4:112:LYS:O	2.05	0.56
36:5:979:U:H1'	36:5:980:A:C4	2.41	0.56
36:5:1385:C:O2	43:l6:2:SER:N	2.38	0.56
36:5:3035:A:OP2	86:5:4051:OHX:N5	2.39	0.56
86:5:3979:OHX:N2	86:5:4199:OHX:N1	2.54	0.56
41:l4:30:ILE:H	54:m8:25:TYR:HH	1.52	0.56
41:l4:99:MET:HE3	41:l4:103:THR:H	1.69	0.56
41:l4:339:LEU:HA	41:l4:342:LYS:HB3	1.87	0.56
47:m0:14:ASN:O	47:m0:128:ARG:NH2	2.37	0.56
49:m3:179:PHE:CD1	49:m3:182:ILE:HD12	2.41	0.56
52:m6:12:LYS:HG2	52:m6:40:GLU:HB3	1.86	0.56
58:n2:104:ARG:HH12	58:n2:106:ALA:HB2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:q2:17:CYS:SG	78:q2:77:CYS:CB	2.93	0.56
1:2:819:G:N2	1:2:820:U:O4	2.39	0.56
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.37	0.56
16:C4:19:ILE:HD11	16:C4:105:LEU:HD21	1.87	0.56
22:D0:33:GLN:OE1	22:D0:33:GLN:N	2.34	0.56
24:D2:8:ALA:HA	24:D2:74:VAL:HG11	1.88	0.56
36:1:781:G:O6	86:1:3938:OHX:N5	2.39	0.56
36:1:1719:G:OP2	55:M9:121:HIS:ND1	2.30	0.56
36:1:2503:G:H1'	36:1:2504:U:H5	1.69	0.56
36:1:2592:G:H4'	36:1:2594:C:C2	2.40	0.56
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.41	0.56
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.05	0.56
47:M0:210:ILE:HG23	47:M0:217:PHE:CD2	2.41	0.56
49:M3:174:ARG:NH1	72:O6:9:ILE:HG21	2.20	0.56
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.05	0.56
1:6:784:C:H2'	1:6:785:U:H6	1.71	0.56
4:s2:67:GLN:O	4:s2:71:THR:HG23	2.06	0.56
18:c6:82:ARG:NH2	18:c6:114:ARG:HB2	2.20	0.56
27:d5:51:LEU:H	27:d5:51:LEU:HD12	1.71	0.56
27:d5:71:ILE:HG23	27:d5:73:GLY:H	1.71	0.56
36:5:371:G:O6	86:5:4205:OHX:N5	2.39	0.56
36:5:1070:U:C4	36:5:1071:U:C4	2.93	0.56
36:5:3212:C:OP2	50:m4:124:ARG:NH2	2.38	0.56
39:l2:45:VAL:HG22	39:l2:84:THR:HA	1.86	0.56
56:n0:73:LYS:NZ	56:n0:97:VAL:O	2.39	0.56
1:2:1165:G:C6	1:2:1166:A:C6	2.94	0.56
6:S4:122:LYS:HB3	6:S4:164:LEU:HD21	1.86	0.56
18:C6:49:TYR:HB3	18:C6:53:LEU:HD21	1.87	0.56
36:1:1231:A:OP2	86:1:4084:OHX:N5	2.38	0.56
36:1:2392:C:H5''	36:1:2393:G:OP2	2.06	0.56
38:4:124:G:H3'	38:4:125:U:C5'	2.35	0.56
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.87	0.56
49:M3:191:ALA:O	49:M3:193:ALA:N	2.35	0.56
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.86	0.56
68:O2:19:ARG:HB3	68:O2:22:SER:HB3	1.88	0.56
1:6:933:A:OP2	28:d6:37:LYS:NZ	2.38	0.56
1:6:1017:U:H2'	1:6:1018:U:C6	2.40	0.56
1:6:1459:C:OP2	20:c8:138:THR:OG1	2.14	0.56
1:6:1524:A:H2'	1:6:1525:A:C8	2.41	0.56
22:d0:27:THR:HG23	22:d0:113:ASP:OD1	2.05	0.56
34:sR:84:SER:OG	34:sR:85:TRP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:431:U:OP1	69:o3:53:TYR:OH	2.23	0.56
36:5:816:A:H5''	36:5:920:A:H62	1.70	0.56
36:5:1249:G:H2'	36:5:1250:G:C8	2.40	0.56
36:5:1409:G:O6	86:5:4162:OHX:N6	2.39	0.56
39:12:147:ARG:HA	39:12:157:VAL:HA	1.86	0.56
39:12:204:MET:HG2	39:12:208:ASP:HB2	1.87	0.56
47:m0:141:LYS:O	47:m0:144:ASN:N	2.38	0.56
51:m5:16:SER:O	51:m5:20:ARG:HG2	2.06	0.56
53:m7:29:THR:HA	53:m7:32:THR:HG23	1.87	0.56
58:n2:18:ASP:OD2	58:n2:20:SER:OG	2.22	0.56
71:o5:14:LYS:HB3	71:o5:15:GLU:OE2	2.04	0.56
73:o7:28:HIS:CE1	73:o7:31:LYS:HG3	2.41	0.56
1:2:1783:C:H2'	1:2:1784:C:C6	2.40	0.56
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.05	0.56
6:S4:230:GLU:HB2	6:S4:233:LYS:HB2	1.88	0.56
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	1.88	0.56
20:C8:69:ILE:HG22	20:C8:73:MET:HE2	1.87	0.56
26:D4:20:ARG:NH1	26:D4:22:GLN:OE1	2.34	0.56
28:D6:36:ILE:HD12	28:D6:78:ALA:HB1	1.86	0.56
36:1:952:A:OP1	65:N9:14:ARG:NH2	2.38	0.56
36:1:2338:C:OP1	40:L3:236:LYS:HE2	2.05	0.56
41:L4:264:SER:OG	41:L4:267:VAL:HG13	2.05	0.56
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.69	0.56
48:M1:90:GLN:OE1	48:M1:172:LEU:HD11	2.06	0.56
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.46	0.56
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.86	0.56
1:6:1081:A:OP2	1:6:1081:A:H8	1.88	0.56
18:c6:93:HIS:HA	18:c6:97:VAL:HG23	1.86	0.56
21:c9:118:PRO:O	21:c9:120:GLY:N	2.37	0.56
24:d2:90:THR:HG21	24:d2:113:HIS:ND1	2.20	0.56
36:5:1365:G:OP2	86:5:4029:OHX:N3	2.39	0.56
36:5:1567:U:H2'	36:5:1568:U:H4'	1.87	0.56
47:m0:81:GLY:O	47:m0:83:ASP:N	2.35	0.56
49:m3:103:ASN:N	49:m3:103:ASN:OD1	2.37	0.56
65:n9:9:ALA:O	65:n9:12:GLN:HB2	2.06	0.56
78:q2:17:CYS:HG	78:q2:74:CYS:HG	1.54	0.56
78:q2:105:GLN:HB3	78:q2:106:PHE:CE1	2.40	0.56
5:S3:167:PHE:HA	5:S3:190:ARG:HD3	1.87	0.56
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.20	0.56
12:C0:56:LYS:HG3	12:C0:67:THR:HB	1.88	0.56
34:SR:165:ASP:O	34:SR:184:ASN:ND2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:944:C:H4'	68:O2:33:ARG:HH11	1.71	0.56
36:1:3375:A:O2'	36:1:3378:C:OP2	2.17	0.56
38:4:136:G:OP1	61:N5:48:SER:OG	2.15	0.56
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.06	0.56
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.39	0.56
54:M8:116:LYS:NZ	64:N8:88:ASP:OD2	2.32	0.56
1:6:1227:A:H4'	1:6:1228:G:H5'	1.87	0.56
1:6:1455:G:OP1	17:c5:122:THR:HG21	2.05	0.56
1:6:1783:C:H2'	1:6:1784:C:C6	2.41	0.56
86:6:2059:OHX:N1	86:6:2146:OHX:N4	2.54	0.56
3:s1:141:ALA:HB1	3:s1:207:LEU:HD22	1.86	0.56
3:s1:142:PHE:O	3:s1:207:LEU:HA	2.05	0.56
9:s7:136:VAL:N	9:s7:153:LEU:O	2.37	0.56
36:5:103:G:OP1	49:m3:70:ARG:NH2	2.38	0.56
36:5:1098:A:O2'	57:n1:130:ARG:O	2.20	0.56
42:l5:61:ILE:HD13	42:l5:79:TYR:HE1	1.71	0.56
42:l5:270:LYS:HG3	42:l5:273:ARG:HB2	1.88	0.56
51:m5:67:ARG:O	51:m5:68:ARG:HB3	2.04	0.56
1:2:1370:U:O4	86:2:2122:OHX:N5	2.38	0.56
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.38	0.56
9:S7:46:ILE:HG12	9:S7:60:ILE:HA	1.88	0.56
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.05	0.56
28:D6:44:ILE:HD13	28:D6:64:LEU:HD22	1.88	0.56
36:1:1108:U:H2'	36:1:1109:U:C6	2.40	0.56
36:1:3169:U:H2'	36:1:3170:A:O4'	2.05	0.56
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.06	0.56
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.71	0.56
1:6:753:A:N7	6:s4:187:ARG:NH2	2.53	0.56
1:6:1258:U:H4'	12:c0:2:LEU:HD22	1.88	0.56
9:s7:46:ILE:HG12	9:s7:60:ILE:HA	1.88	0.56
10:s8:142:LYS:O	10:s8:145:ALA:N	2.38	0.56
16:c4:107:ARG:NH2	28:d6:52:ASP:OD1	2.38	0.56
33:e1:86:THR:HG23	33:e1:87:THR:H	1.71	0.56
36:5:3241:G:H2'	36:5:3245:A:C8	2.41	0.56
38:8:47:C:H1'	38:8:61:A:H2'	1.86	0.56
45:l8:70:LYS:HA	45:l8:235:GLY:HA3	1.87	0.56
1:2:38:C:C2'	1:2:39:A:H5'	2.35	0.56
1:2:1338:C:H1'	1:2:1410:A:C4	2.41	0.56
1:2:1600:A:O2'	1:2:1602:C:N4	2.39	0.56
3:S1:157:GLN:HB2	3:S1:160:HIS:CG	2.41	0.56
5:S3:60:GLY:HA3	5:S3:65:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.22	0.56
18:C6:115:THR:OG1	18:C6:116:LEU:N	2.38	0.56
21:C9:101:ASN:O	21:C9:104:VAL:N	2.38	0.56
36:1:1845:G:H5'	36:1:1845:G:H8	1.70	0.56
36:1:3338:C:H2'	36:1:3339:A:C8	2.40	0.56
45:L8:75:ILE:HD11	51:M5:22:LEU:HD22	1.87	0.56
1:6:78:A:H8	8:s6:154:ARG:HD3	1.67	0.56
1:6:332:U:P	10:s8:56:ARG:HH22	2.29	0.56
1:6:1297:G:N2	1:6:1300:A:OP2	2.32	0.56
36:5:110:G:OP2	49:m3:73:ARG:NH1	2.38	0.56
36:5:2356:A:OP1	53:m7:138:LYS:NZ	2.39	0.56
37:7:28:C:OP1	48:m1:137:ARG:HD3	2.05	0.56
86:7:217:OHX:N3	86:7:225:OHX:N6	2.53	0.56
40:l3:230:THR:HA	40:l3:235:THR:HG22	1.87	0.56
45:l8:163:VAL:HG22	45:l8:166:LEU:HD12	1.88	0.56
76:q0:99:CYS:HB2	76:q0:114:LYS:HD2	1.87	0.56
36:1:2254:U:H2'	36:1:2261:G:N2	2.21	0.56
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.39	0.56
36:1:3231:U:H2'	36:1:3232:G:H8	1.71	0.56
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.87	0.56
48:M1:132:ASN:HA	48:M1:154:THR:HG21	1.87	0.56
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.06	0.56
53:M7:169:THR:OG1	53:M7:171:ARG:NH1	2.39	0.56
61:N5:60:TYR:OH	71:O5:26:LYS:HG2	2.05	0.56
63:N7:121:ARG:HD2	63:N7:126:LYS:HE3	1.88	0.56
1:6:833:U:OP2	86:6:2201:OHX:N5	2.39	0.56
1:6:1699:G:C2	1:6:1701:A:H5''	2.41	0.56
3:s1:58:SER:HA	3:s1:61:LEU:HD23	1.87	0.56
9:s7:9:LEU:HD21	9:s7:17:GLU:HB3	1.88	0.56
10:s8:76:THR:HG21	10:s8:105:ASP:O	2.05	0.56
13:c1:101:GLU:CD	25:d3:16:ARG:HH22	2.14	0.56
22:d0:118:VAL:HG13	22:d0:119:ALA:H	1.71	0.56
36:5:1661:G:H2'	36:5:1662:G:C8	2.40	0.56
36:5:2728:G:O6	57:n1:78:LYS:HE3	2.06	0.56
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.39	0.56
41:l4:330:TYR:HA	41:l4:333:VAL:HG13	1.87	0.56
43:l6:136:GLU:O	43:l6:140:VAL:HG23	2.05	0.56
45:l8:146:LYS:HD3	45:l8:173:MET:O	2.06	0.56
49:m3:42:ARG:O	49:m3:46:ILE:HG12	2.06	0.56
50:m4:103:ILE:HG23	50:m4:106:ARG:HH21	1.71	0.56
62:n6:39:LEU:HD21	62:n6:107:THR:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:n9:14:ARG:NH1	65:n9:18:ARG:HD3	2.21	0.56
71:o5:4:VAL:HB	71:o5:9:LEU:HD11	1.88	0.56
71:o5:59:ASN:O	71:o5:63:ARG:HG2	2.06	0.56
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.89	0.55
6:S4:191:ARG:HH11	6:S4:245:LYS:HD3	1.71	0.55
12:C0:13:GLN:HG3	12:C0:14:TYR:N	2.21	0.55
16:C4:84:ARG:NH1	16:C4:85:ALA:O	2.38	0.55
17:C5:79:HIS:O	17:C5:81:ARG:N	2.39	0.55
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.39	0.55
34:SR:40:LYS:HG2	34:SR:66:HIS:O	2.06	0.55
36:1:2273:G:O6	86:1:4138:OHX:N5	2.39	0.55
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.88	0.55
52:M6:41:LEU:HB3	52:M6:138:LEU:HB2	1.88	0.55
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.88	0.55
63:N7:127:ASN:O	63:N7:129:TRP:N	2.40	0.55
1:6:488:G:N2	1:6:499:U:H3	2.03	0.55
2:s0:198:MET:HE1	19:c7:88:VAL:HA	1.86	0.55
25:d3:97:ASP:O	25:d3:100:ASP:HB2	2.05	0.55
34:sR:93:ASP:HB2	34:sR:100:TYR:CE1	2.36	0.55
36:5:2949:U:O2'	36:5:2950:G:H5'	2.06	0.55
41:l4:59:GLN:OE1	73:o7:55:ARG:NH2	2.39	0.55
45:l8:148:ALA:HA	45:l8:201:THR:HG22	1.88	0.55
47:m0:210:ILE:HG13	47:m0:217:PHE:CE2	2.41	0.55
1:2:138:A:N6	1:2:266:A:H61	2.04	0.55
28:D6:10:ARG:HD3	28:D6:34:LYS:O	2.06	0.55
34:SR:33:LEU:O	34:SR:45:TRP:N	2.34	0.55
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.06	0.55
36:1:3006:A:C2	36:1:3141:A:C4	2.95	0.55
39:L2:204:MET:HE3	39:L2:208:ASP:HB3	1.88	0.55
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.88	0.55
1:6:753:A:N7	6:s4:187:ARG:NH1	2.53	0.55
1:6:1583:A:OP1	18:c6:135:ARG:NH1	2.34	0.55
3:s1:103:MET:H	3:s1:215:VAL:HG13	1.71	0.55
3:s1:137:ILE:HD11	3:s1:172:LEU:HD22	1.88	0.55
7:s5:101:GLY:C	7:s5:103:ASN:H	2.13	0.55
7:s5:121:ILE:HG13	7:s5:195:ALA:HB1	1.88	0.55
10:s8:153:GLU:HB3	10:s8:156:VAL:HG23	1.89	0.55
11:s9:53:ARG:HB3	11:s9:53:ARG:HH21	1.70	0.55
12:c0:1:MET:HG3	12:c0:2:LEU:H	1.72	0.55
20:c8:86:LEU:HG	20:c8:99:HIS:HB2	1.88	0.55
36:5:30:G:O5'	51:m5:172:ARG:HD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2528:G:N7	86:5:4208:OHX:N3	2.54	0.55
41:14:33:ASP:OD1	41:14:33:ASP:N	2.37	0.55
44:17:132:PRO:HA	44:17:229:PHE:CD2	2.42	0.55
48:m1:59:ILE:HG21	48:m1:65:ILE:HD11	1.88	0.55
54:m8:21:SER:OG	54:m8:22:ASP:N	2.38	0.55
64:n8:126:LYS:HA	64:n8:146:GLU:O	2.06	0.55
82:p0:64:ARG:HA	82:p0:67:LEU:HD23	1.88	0.55
1:2:93:A:H1'	6:S4:3:ARG:HB3	1.88	0.55
1:2:591:A:H2'	1:2:592:A:C8	2.41	0.55
1:2:702:G:C2	1:2:703:G:H1'	2.41	0.55
6:S4:187:ARG:C	6:S4:189:LEU:H	2.14	0.55
7:S5:99:MET:HG3	7:S5:180:ARG:NH2	2.21	0.55
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.39	0.55
36:1:3122:A:N1	46:L9:70:THR:HG21	2.21	0.55
38:4:125:U:HO2'	38:4:126:A:P	2.28	0.55
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	1.88	0.55
49:M3:174:ARG:HB2	72:O6:9:ILE:HD12	1.88	0.55
1:6:154:G:H1	1:6:160:C:H42	1.54	0.55
1:6:245:U:O4	86:6:2122:OHX:N4	2.39	0.55
1:6:1568:C:OP1	20:c8:36:LYS:NZ	2.26	0.55
1:6:1776:A:H2'	1:6:1777:G:C8	2.40	0.55
6:s4:139:VAL:HG13	6:s4:150:PRO:HG3	1.87	0.55
8:s6:31:ARG:HG2	8:s6:31:ARG:HH11	1.71	0.55
24:d2:55:ASP:HB3	29:d7:25:VAL:HG22	1.89	0.55
30:d8:5:THR:O	30:d8:7:VAL:HG12	2.07	0.55
34:sR:82:SER:HG	34:sR:92:TRP:HE1	1.50	0.55
36:5:3001:C:OP1	40:l3:120:LYS:NZ	2.38	0.55
42:l5:64:ILE:HG13	42:l5:109:THR:HG21	1.88	0.55
43:l6:64:LEU:O	43:l6:65:ILE:HD13	2.05	0.55
45:l8:171:LYS:NZ	45:l8:223:ALA:O	2.35	0.55
71:o5:86:ARG:HG3	71:o5:90:ARG:HH21	1.71	0.55
1:2:833:U:OP2	86:2:2141:OHX:N4	2.38	0.55
1:2:896:U:O4	1:2:914:G:O2'	2.23	0.55
1:2:1199:G:C8	22:D0:68:ARG:HG3	2.40	0.55
1:2:1460:A:O2'	35:SM:72:ARG:NH2	2.40	0.55
2:S0:200:ASP:HA	2:S0:203:PHE:CE1	2.42	0.55
21:C9:30:VAL:HG12	21:C9:54:PHE:HD2	1.72	0.55
34:SR:272:ASP:OD1	34:SR:273:ASP:N	2.40	0.55
36:1:1668:G:C6	36:1:1669:C:C4	2.95	0.55
36:1:1834:U:OP1	75:O9:5:LYS:HE2	2.06	0.55
36:1:3183:A:H2'	36:1:3184:A:H8	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3231:U:H2'	36:1:3232:G:C8	2.42	0.55
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.39	0.55
74:O8:17:ARG:O	74:O8:19:ASP:N	2.39	0.55
1:6:830:U:C2'	1:6:831:U:H5'	2.35	0.55
86:6:2120:OHX:N6	86:6:2170:OHX:N3	2.54	0.55
4:s2:49:LYS:HD2	4:s2:243:TYR:CE1	2.41	0.55
7:s5:43:PHE:HB3	7:s5:46:TRP:CD1	2.41	0.55
36:5:192:C:H2'	36:5:193:C:C6	2.41	0.55
36:5:1010:G:N3	47:m0:194:GLY:HA3	2.22	0.55
36:5:1688:U:H2'	36:5:1689:U:C6	2.42	0.55
36:5:2103:U:OP1	55:m9:88:ARG:NH1	2.36	0.55
36:5:2724:U:H4'	57:n1:54:HIS:CD2	2.42	0.55
86:5:3974:OHX:N3	86:5:4242:OHX:N5	2.55	0.55
42:l5:289:LYS:O	42:l5:292:ALA:HB3	2.06	0.55
1:2:155:U:H4'	8:S6:59:GLN:H	1.72	0.55
1:2:549:G:OP2	86:2:2027:OHX:N2	2.39	0.55
1:2:1105:C:H41	25:D3:4:GLY:CA	2.17	0.55
7:S5:68:ILE:HG13	18:C6:114:ARG:HH22	1.71	0.55
9:S7:43:PHE:CE1	9:S7:46:ILE:HG13	2.42	0.55
17:C5:10:ARG:O	17:C5:12:PHE:N	2.39	0.55
17:C5:43:ARG:O	17:C5:47:ARG:HG3	2.06	0.55
22:D0:58:LEU:CD1	22:D0:88:LYS:HD2	2.36	0.55
23:D1:42:GLU:O	23:D1:44:ARG:N	2.33	0.55
24:D2:82:LYS:H	24:D2:85:ASP:HB2	1.70	0.55
34:SR:218:GLY:HA2	34:SR:238:ASP:O	2.07	0.55
36:1:20:A:OP2	71:O5:90:ARG:NH1	2.40	0.55
36:1:1033:U:H2'	36:1:1034:U:C6	2.41	0.55
48:M1:155:THR:HG23	48:M1:158:ASP:HB2	1.88	0.55
3:s1:173:THR:O	3:s1:177:GLN:HB2	2.06	0.55
7:s5:62:VAL:HG13	7:s5:89:ILE:HG12	1.88	0.55
7:s5:190:ILE:O	7:s5:194:LEU:HB2	2.07	0.55
36:5:581:U:O4	86:5:4023:OHX:N6	2.39	0.55
36:5:1236:G:N2	36:5:1244:A:OP1	2.38	0.55
36:5:1307:G:C2	36:5:1308:A:C2	2.95	0.55
36:5:2228:A:H2'	36:5:2229:A:C8	2.41	0.55
36:5:3294:A:H5'	40:l3:128:LYS:HG3	1.88	0.55
40:l3:111:SER:O	40:l3:114:VAL:HG23	2.06	0.55
40:l3:296:THR:HG22	40:l3:298:PHE:N	2.05	0.55
42:l5:268:GLU:C	42:l5:270:LYS:H	2.15	0.55
59:n3:87:ARG:HH22	59:n3:137:VAL:CG2	2.19	0.55
1:2:6:G:OP2	4:S2:205:ARG:HD2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:81:G:OP2	86:2:2140:OHX:N5	2.40	0.55
6:S4:252:ARG:NH2	6:S4:253:ASP:OD1	2.39	0.55
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.07	0.55
32:E0:49:LEU:HD12	32:E0:51:ASN:H	1.71	0.55
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.41	0.55
36:1:3118:C:H4'	76:Q0:106:ARG:NH2	2.22	0.55
37:3:77:G:N2	37:3:102:A:OP2	2.27	0.55
59:N3:120:LYS:HD3	59:N3:121:GLU:HG3	1.88	0.55
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.20	0.55
73:O7:88:ALA:O	86:O7:104:OHX:N4	2.39	0.55
1:6:25:C:OP2	1:6:25:C:H4'	2.05	0.55
1:6:76:A:H3'	86:6:2191:OHX:N1	2.22	0.55
1:6:1316:G:OP1	19:c7:7:LYS:N	2.35	0.55
1:6:1558:U:H3	17:c5:122:THR:CG2	2.20	0.55
1:6:1738:U:O4	86:6:2062:OHX:N5	2.39	0.55
86:6:2059:OHX:N2	86:6:2146:OHX:N6	2.55	0.55
6:s4:95:THR:HG23	6:s4:97:GLU:HG2	1.88	0.55
36:5:847:A:H2'	36:5:848:A:C8	2.42	0.55
36:5:2697:A:H2'	36:5:2698:G:C8	2.41	0.55
36:5:2829:U:H5''	36:5:2830:G:OP2	2.06	0.55
42:l5:279:LYS:HD2	42:l5:282:ARG:NH1	2.19	0.55
59:n3:128:ARG:NH2	59:n3:128:ARG:HB3	2.21	0.55
69:o3:8:TYR:CE2	69:o3:99:ARG:HG2	2.41	0.55
1:2:603:U:H2'	1:2:604:A:H8	1.72	0.55
1:2:788:A:H2'	6:S4:19:LEU:HD22	1.89	0.55
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.89	0.55
8:S6:211:LEU:O	8:S6:215:ARG:HB2	2.06	0.55
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.89	0.55
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.39	0.55
36:1:944:C:H4'	68:O2:33:ARG:NH1	2.22	0.55
36:1:2257:C:H2'	36:1:2258:U:O4'	2.05	0.55
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.42	0.55
1:6:151:G:H22	1:6:163:G:N2	2.04	0.55
1:6:976:G:O6	86:6:2079:OHX:N6	2.39	0.55
4:s2:41:LEU:HD11	4:s2:56:ILE:HD13	1.88	0.55
11:s9:80:LEU:HB3	11:s9:86:LEU:HB2	1.89	0.55
27:d5:44:GLN:O	27:d5:44:GLN:NE2	2.37	0.55
36:5:860:G:C5	39:l2:181:LYS:HB3	2.42	0.55
38:8:133:G:O6	86:8:225:OHX:N6	2.39	0.55
40:l3:92:TYR:CE1	40:l3:159:ARG:HD2	2.41	0.55
43:l6:65:ILE:O	43:l6:76:LEU:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:132:PRO:HA	44:l7:229:PHE:CE2	2.42	0.55
54:m8:67:ILE:HG23	54:m8:81:VAL:HG11	1.87	0.55
1:2:623:A:OP2	86:2:2156:OHX:N4	2.40	0.55
1:2:1207:C:H42	1:2:1456:C:H5	1.55	0.55
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.88	0.55
36:1:709:A:P	54:M8:179:ARG:HH22	2.30	0.55
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.39	0.55
36:1:2970:C:H4'	36:1:2971:A:N1	2.22	0.55
61:N5:92:LYS:HE2	61:N5:110:VAL:O	2.06	0.55
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.42	0.55
1:6:591:A:H2'	1:6:592:A:C8	2.42	0.55
1:6:862:A:OP1	15:c3:20:ARG:NE	2.39	0.55
1:6:918:U:H2'	1:6:919:A:C8	2.41	0.55
1:6:1564:U:H2'	1:6:1565:C:C6	2.42	0.55
3:s1:211:HIS:N	3:s1:211:HIS:CD2	2.74	0.55
9:s7:102:PRO:HD3	9:s7:112:ARG:HD3	1.89	0.55
10:s8:196:LEU:HD22	10:s8:200:LYS:HD3	1.89	0.55
30:d8:32:PHE:O	30:d8:34:GLU:N	2.39	0.55
36:5:835:G:O2'	36:5:857:G:N2	2.28	0.55
36:5:1076:C:O3'	65:n9:38:LYS:NZ	2.39	0.55
36:5:3150:A:H5'	40:l3:129:ALA:O	2.07	0.55
36:5:3259:U:H5'	36:5:3259:U:H6	1.72	0.55
36:5:3284:G:OP2	36:5:3284:G:H8	1.89	0.55
42:l5:226:TYR:HE1	42:l5:236:LEU:HD11	1.72	0.55
49:m3:109:PHE:O	49:m3:113:VAL:HG23	2.06	0.55
62:n6:57:LEU:HD22	62:n6:58:VAL:N	2.21	0.55
66:o0:99:ASP:N	66:o0:99:ASP:OD2	2.37	0.55
71:o5:57:VAL:HA	71:o5:60:GLU:HG3	1.89	0.55
1:2:1017:U:H2'	1:2:1018:U:C6	2.42	0.55
36:1:726:G:C5'	36:1:726:G:H8	2.20	0.55
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.42	0.55
36:1:2404:A:H2'	36:1:2404:A:N3	2.21	0.55
36:1:3136:G:OP2	86:1:4098:OHX:N6	2.39	0.55
38:4:85:G:C8	38:4:85:G:H3'	2.42	0.55
39:L2:126:LEU:HD13	39:L2:150:LEU:HD21	1.88	0.55
42:L5:180:PHE:HB3	42:L5:195:LEU:HD13	1.89	0.55
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.72	0.55
58:N2:29:ASP:OD2	58:N2:83:TYR:OH	2.24	0.55
59:N3:75:PRO:HB2	59:N3:103:ALA:O	2.07	0.55
59:N3:79:VAL:HG22	59:N3:99:ALA:O	2.07	0.55
1:6:484:C:H42	1:6:503:G:N2	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1350:U:H2'	1:6:1351:G:H8	1.69	0.55
4:s2:59:HIS:CE1	4:s2:238:SER:HA	2.41	0.55
9:s7:103:SER:OG	9:s7:106:SER:N	2.40	0.55
12:c0:1:MET:HG2	12:c0:3:MET:HE2	1.89	0.55
21:c9:92:LYS:HE3	21:c9:94:ILE:HD11	1.89	0.55
23:d1:40:ASP:HB2	23:d1:41:GLU:OE2	2.07	0.55
36:5:75:G:H5''	49:m3:58:VAL:CG1	2.35	0.55
36:5:668:G:OP1	86:5:4141:OHX:N1	2.39	0.55
36:5:1639:C:H5'	70:o4:52:GLN:HG2	1.89	0.55
36:5:1686:U:O4	58:n2:82:LYS:NZ	2.37	0.55
36:5:1747:G:N2	74:o8:2:ALA:HB1	2.22	0.55
36:5:2938:G:C2'	36:5:2939:G:H5'	2.37	0.55
86:8:219:OHX:N6	86:8:227:OHX:N4	2.55	0.55
39:l2:214:GLY:O	39:l2:215:ASN:HB2	2.05	0.55
41:l4:99:MET:CE	41:l4:103:THR:H	2.20	0.55
41:l4:205:PRO:HB3	41:l4:247:PHE:CD2	2.42	0.55
44:l7:142:SER:O	44:l7:146:GLN:HG3	2.06	0.55
46:l9:129:ARG:HB3	46:l9:132:VAL:CG1	2.37	0.55
62:n6:74:TYR:CE2	62:n6:77:LYS:HD2	2.41	0.55
1:2:843:U:H2'	1:2:844:A:H8	1.71	0.55
1:2:952:A:O2'	15:C3:114:ARG:HG3	2.07	0.55
1:2:1523:G:O6	21:C9:71:VAL:HG11	2.07	0.55
1:2:1542:G:H22	1:2:1568:C:H1'	1.71	0.55
1:2:1742:U:OP1	25:D3:39:LYS:HD3	2.07	0.55
6:S4:65:LEU:HD23	6:S4:78:THR:HA	1.89	0.55
9:S7:11:GLN:HG3	9:S7:12:ALA:H	1.72	0.55
9:S7:142:TYR:HE1	24:D2:39:GLN:HE21	1.54	0.55
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.22	0.55
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.88	0.55
36:1:39:A:H5''	64:N8:35:ALA:HB2	1.88	0.55
36:1:2728:G:O6	57:N1:78:LYS:HE3	2.06	0.55
37:3:3:U:H2'	37:3:4:U:C6	2.41	0.55
38:4:85:G:H3'	38:4:85:G:H8	1.72	0.55
41:L4:152:VAL:HG11	41:L4:156:LEU:HD12	1.88	0.55
44:L7:150:LYS:HG2	44:L7:151:ARG:HG3	1.88	0.55
51:M5:23:GLN:HG2	51:M5:122:ASN:HD21	1.71	0.55
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	1.88	0.55
1:6:866:G:OP1	15:c3:2:GLY:N	2.40	0.55
1:6:1228:G:OP1	14:c2:119:SER:OG	2.23	0.55
5:s3:27:ARG:HD2	12:c0:60:SER:HB2	1.89	0.55
11:s9:109:LEU:HD13	11:s9:129:ILE:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:178:ALA:HA	11:s9:181:ALA:HB3	1.89	0.55
12:c0:31:LYS:HA	12:c0:37:THR:O	2.06	0.55
36:5:128:G:H2'	36:5:129:U:O4'	2.06	0.55
36:5:2123:G:N7	86:5:4099:OHX:N1	2.55	0.55
86:8:219:OHX:N6	86:8:227:OHX:N3	2.55	0.55
47:m0:61:SER:HB2	47:m0:63:GLU:HG2	1.88	0.55
57:n1:17:ARG:HB3	57:n1:17:ARG:HH11	1.71	0.55
79:q3:49:ARG:HB2	79:q3:55:TRP:CH2	2.42	0.55
1:2:538:A:H8	1:2:543:C:N4	2.05	0.54
1:2:1507:G:O6	86:2:2145:OHX:N5	2.40	0.54
3:S1:62:LYS:HD2	3:S1:91:VAL:HG21	1.87	0.54
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.90	0.54
12:C0:53:GLY:O	12:C0:55:VAL:N	2.33	0.54
15:C3:72:MET:HE1	15:C3:82:PRO:HD2	1.89	0.54
18:C6:129:PHE:CE1	22:D0:78:THR:HA	2.41	0.54
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.07	0.54
34:SR:253:ALA:O	34:SR:292:LEU:HD11	2.07	0.54
36:1:863:C:H2'	36:1:864:G:O4'	2.07	0.54
36:1:2108:C:H1'	36:1:3344:A:C8	2.42	0.54
36:1:2686:A:OP2	86:1:3896:OHX:N2	2.40	0.54
36:1:2810:C:OP1	86:1:4081:OHX:N6	2.40	0.54
36:1:2878:G:H5''	40:L3:5:LYS:HE2	1.90	0.54
40:L3:62:ARG:HH12	40:L3:349:LYS:NZ	2.04	0.54
40:L3:265:ALA:C	40:L3:266:ARG:HG2	2.32	0.54
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	2.40	0.54
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.38	0.54
70:O4:95:ILE:O	70:O4:99:LYS:HB2	2.07	0.54
16:c4:13:VAL:HG22	16:c4:77:THR:HG23	1.88	0.54
17:c5:85:ILE:HD13	17:c5:111:MET:HB3	1.89	0.54
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.33	0.54
34:sR:22:SER:OG	34:sR:70:ASP:HA	2.07	0.54
34:sR:159:ASN:O	34:sR:161:LYS:N	2.33	0.54
36:5:1119:C:OP2	86:5:3987:OHX:N2	2.40	0.54
36:5:1696:A:OP2	86:5:4186:OHX:N6	2.40	0.54
86:5:3992:OHX:N4	38:8:112:U:O2	2.40	0.54
40:l3:238:LEU:HB3	40:l3:242:THR:HG21	1.89	0.54
50:m4:47:ASP:OD1	50:m4:55:ARG:HB2	2.07	0.54
52:m6:182:ASN:O	52:m6:185:ALA:N	2.39	0.54
54:m8:96:PHE:CG	54:m8:97:PRO:HD2	2.42	0.54
82:p0:53:MET:SD	82:p0:85:GLY:HA3	2.46	0.54
1:2:827:C:H2'	1:2:828:U:C6	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:867:G:H5'	15:C3:4:MET:HE3	1.89	0.54
2:S0:183:ARG:NH2	2:S0:191:ARG:O	2.40	0.54
3:S1:61:LEU:O	3:S1:62:LYS:NZ	2.36	0.54
4:S2:178:ILE:O	4:S2:185:LYS:NZ	2.39	0.54
6:S4:179:LYS:N	6:S4:194:THR:O	2.40	0.54
36:1:1204:A:H2	36:1:2834:G:N3	2.06	0.54
36:1:2861:U:H2'	36:1:2862:U:O4'	2.07	0.54
36:1:3295:A:OP2	40:L3:126:LYS:N	2.40	0.54
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.32	0.54
44:L7:160:ARG:HE	44:L7:203:TRP:CD1	2.25	0.54
1:6:363:G:OP1	86:6:2111:OHX:N1	2.41	0.54
1:6:991:G:OP2	86:6:2170:OHX:N2	2.40	0.54
3:s1:113:MET:HE2	3:s1:142:PHE:CE2	2.40	0.54
21:c9:117:SER:HB2	21:c9:123:ARG:HB3	1.89	0.54
34:sR:69:GLN:HG2	34:sR:111:MET:HE3	1.90	0.54
36:5:549:U:H2'	36:5:550:A:C8	2.42	0.54
39:l2:57:PRO:HD2	39:l2:170:ALA:HB3	1.89	0.54
40:l3:37:ARG:HA	40:l3:186:GLY:HA2	1.88	0.54
41:l4:341:SER:O	41:l4:342:LYS:HB3	2.06	0.54
58:n2:54:VAL:HG13	58:n2:67:SER:HB2	1.88	0.54
61:n5:105:VAL:HG13	61:n5:130:TYR:CD2	2.42	0.54
65:n9:58:LYS:NZ	65:n9:58:LYS:HA	2.21	0.54
1:2:488:G:N7	1:2:498:G:N2	2.55	0.54
1:2:652:G:H1	1:2:682:C:H42	1.55	0.54
1:2:1385:G:N7	86:2:2132:OHX:N3	2.55	0.54
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.41	0.54
1:2:1478:G:H8	1:2:1478:G:OP2	1.90	0.54
6:S4:174:LYS:O	6:S4:179:LYS:HD2	2.07	0.54
7:S5:29:ILE:HG22	7:S5:34:GLN:HG2	1.89	0.54
15:C3:41:ALA:HB2	15:C3:50:ILE:HD11	1.89	0.54
16:C4:26:THR:HG21	16:C4:97:GLY:HA3	1.89	0.54
36:1:582:G:O6	86:1:4171:OHX:N2	2.40	0.54
36:1:1276:U:OP1	86:1:4084:OHX:N4	2.41	0.54
42:L5:233:ALA:O	42:L5:235:SER:N	2.40	0.54
46:L9:13:PRO:HD2	46:L9:16:VAL:HG22	1.90	0.54
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.08	0.54
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	1.89	0.54
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.89	0.54
1:6:152:U:C2	1:6:163:G:N2	2.76	0.54
1:6:325:G:C4'	13:c1:80:MET:HE2	2.38	0.54
1:6:523:G:OP2	26:d4:37:LYS:HE3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:195:TRP:CD1	2:s0:197:ILE:H	2.24	0.54
8:s6:67:VAL:O	8:s6:68:LEU:HB2	2.06	0.54
9:s7:38:LEU:HD23	9:s7:41:LEU:HD12	1.90	0.54
15:c3:34:ILE:O	15:c3:38:VAL:HG23	2.08	0.54
27:d5:44:GLN:HA	27:d5:47:TYR:HB3	1.89	0.54
27:d5:85:LYS:HB3	27:d5:87:GLY:HA2	1.88	0.54
36:5:264:G:O2'	36:5:265:A:OP2	2.21	0.54
36:5:1032:C:H5'	36:5:1033:U:OP2	2.07	0.54
36:5:2853:A:H5'	47:m0:63:GLU:HB2	1.89	0.54
36:5:3366:G:H2'	36:5:3367:C:C6	2.42	0.54
41:l4:226:GLU:OE1	41:l4:237:GLN:NE2	2.40	0.54
64:n8:85:ASP:OD1	64:n8:85:ASP:N	2.40	0.54
1:2:76:A:H2'	1:2:80:A:H62	1.72	0.54
1:2:705:U:H2'	1:2:706:A:C8	2.42	0.54
9:S7:35:LYS:HG2	9:S7:36:ALA:H	1.71	0.54
11:S9:13:SER:HB2	11:S9:47:PHE:CD1	2.43	0.54
20:C8:42:TYR:HA	20:C8:85:PHE:HE1	1.73	0.54
36:1:272:G:OP2	86:1:4028:OHX:N3	2.40	0.54
36:1:438:A:OP1	68:O2:118:LYS:NZ	2.32	0.54
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.89	0.54
36:1:1240:A:H3'	36:1:1241:U:H5'	1.89	0.54
36:1:1489:A:OP1	70:O4:10:ARG:NH1	2.40	0.54
36:1:2206:G:H8	36:1:2206:G:OP2	1.90	0.54
36:1:3335:A:H2'	36:1:3336:A:C8	2.42	0.54
39:L2:30:ARG:HB2	39:L2:36:GLU:OE2	2.07	0.54
41:L4:145:ILE:O	41:L4:145:ILE:HG13	2.08	0.54
48:M1:91:LEU:HD22	48:M1:95:ASN:HD22	1.73	0.54
49:M3:79:GLU:OE1	49:M3:101:ARG:NH2	2.41	0.54
58:N2:56:VAL:HG22	58:N2:65:VAL:HG13	1.89	0.54
1:6:341:A:H4'	10:s8:87:ASN:ND2	2.23	0.54
1:6:947:U:H2'	1:6:948:G:H8	1.71	0.54
1:6:1388:A:H4'	1:6:1389:C:O5'	2.07	0.54
1:6:1697:G:H8	1:6:1705:C:N3	2.04	0.54
2:s0:140:ASN:HD22	4:s2:62:PRO:HD3	1.71	0.54
2:s0:172:LEU:HD13	2:s0:176:LEU:HD11	1.89	0.54
36:5:71:A:OP2	64:n8:67:HIS:NE2	2.32	0.54
36:5:1017:C:OP1	36:5:1017:C:H2'	2.07	0.54
36:5:1037:C:H2'	36:5:1038:C:C6	2.42	0.54
36:5:1157:G:H2'	36:5:1158:A:O4'	2.07	0.54
36:5:2211:U:OP2	86:5:4223:OHX:N1	2.41	0.54
48:m1:60:ARG:HH21	48:m1:60:ARG:CG	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:41:LEU:O	53:m7:41:LEU:HD22	2.08	0.54
63:n7:115:LYS:O	63:n7:119:GLU:HB2	2.07	0.54
68:o2:16:LYS:O	68:o2:17:PHE:HB2	2.07	0.54
82:p0:51:VAL:HG23	82:p0:87:VAL:HG22	1.89	0.54
1:2:485:A:H2'	1:2:486:G:O4'	2.08	0.54
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.06	0.54
3:S1:62:LYS:O	3:S1:64:ARG:N	2.41	0.54
5:S3:64:ARG:O	5:S3:68:GLU:HG3	2.07	0.54
17:C5:33:PHE:HA	17:C5:36:LEU:HD23	1.88	0.54
20:C8:113:LEU:HD21	20:C8:127:HIS:CE1	2.42	0.54
24:D2:103:ILE:HA	24:D2:112:ASP:HA	1.90	0.54
34:SR:153:GLN:HB3	34:SR:202:LEU:HD22	1.87	0.54
36:1:497:C:H2'	36:1:498:A:O4'	2.08	0.54
36:1:595:G:H1	36:1:609:G:H5''	1.72	0.54
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.55	0.54
36:1:2554:A:H5''	39:L2:85:GLY:O	2.07	0.54
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.08	0.54
36:1:3233:C:H2'	36:1:3234:A:C8	2.42	0.54
40:L3:95:THR:OG1	40:L3:98:GLY:O	2.18	0.54
42:L5:153:THR:HG23	42:L5:160:PHE:CZ	2.43	0.54
42:L5:279:LYS:HG2	42:L5:282:ARG:NH2	2.23	0.54
49:M3:124:ILE:O	49:M3:124:ILE:HG12	2.07	0.54
53:M7:23:ARG:HE	53:M7:125:GLN:HG3	1.71	0.54
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	1.90	0.54
1:6:346:G:H5'	13:c1:79:LYS:HB3	1.89	0.54
1:6:377:G:O6	86:6:2111:OHX:N4	2.41	0.54
1:6:694:U:H3'	1:6:695:U:O2	2.08	0.54
86:6:2120:OHX:N6	86:6:2170:OHX:N5	2.55	0.54
7:s5:37:GLN:OE1	18:c6:53:LEU:HD22	2.07	0.54
8:s6:20:ASP:O	8:s6:23:ARG:N	2.40	0.54
13:c1:5:LEU:HD23	13:c1:7:VAL:H	1.71	0.54
36:5:180:C:H2'	36:5:181:U:H6	1.73	0.54
68:o2:17:PHE:CD1	68:o2:53:PRO:HD3	2.43	0.54
1:2:164:A:H5'	8:S6:112:VAL:HG21	1.89	0.54
1:2:330:G:H2'	1:2:331:A:C8	2.43	0.54
1:2:705:U:H2'	1:2:706:A:H8	1.71	0.54
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.40	0.54
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	1.90	0.54
36:1:1796:G:H5''	36:1:1797:A:OP1	2.07	0.54
36:1:1942:U:OP2	55:M9:74:ARG:NH1	2.39	0.54
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2984:C:H2'	36:1:2985:C:C6	2.42	0.54
42:L5:279:LYS:HG2	42:L5:282:ARG:NH1	2.23	0.54
1:6:588:U:P	80:e0:26:LYS:HZ1	2.30	0.54
1:6:1034:C:HO2'	24:d2:2:THR:N	2.04	0.54
1:6:1058:U:H4'	1:6:1059:U:OP1	2.07	0.54
1:6:1762:A:H1'	1:6:1783:C:OP1	2.07	0.54
1:6:1794:A:OP2	28:d6:4:LYS:NZ	2.41	0.54
10:s8:70:GLU:OE2	10:s8:117:TYR:OH	2.21	0.54
23:d1:40:ASP:HB3	23:d1:46:ILE:HD11	1.90	0.54
34:sR:90:ARG:HE	34:sR:102:ARG:HE	1.56	0.54
36:5:528:U:H2'	36:5:529:A:C8	2.42	0.54
36:5:607:A:OP1	43:l6:24:ALA:N	2.34	0.54
36:5:1659:U:H2'	36:5:1660:C:C6	2.43	0.54
36:5:3289:G:H4'	36:5:3290:G:OP1	2.08	0.54
86:5:4021:OHX:N3	86:5:4217:OHX:N4	2.56	0.54
45:l8:238:LEU:HD23	45:l8:242:ALA:HB1	1.90	0.54
49:m3:3:ILE:HG21	64:n8:45:MET:HE3	1.89	0.54
3:S1:126:THR:HG22	3:S1:136:ARG:HE	1.73	0.54
7:S5:61:TYR:O	7:S5:168:VAL:HG21	2.07	0.54
17:C5:68:PRO:HG2	17:C5:71:GLU:OE2	2.07	0.54
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.41	0.54
34:SR:21:THR:HA	34:SR:291:SER:OG	2.07	0.54
34:SR:182:ASN:O	34:SR:186:PHE:HA	2.07	0.54
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.08	0.54
36:1:528:U:H2'	36:1:529:A:C8	2.42	0.54
36:1:1054:A:H5''	36:1:2637:A:H61	1.72	0.54
36:1:1765:U:H5''	55:M9:43:LYS:CE	2.38	0.54
38:4:7:U:O4	86:4:224:OHX:N3	2.41	0.54
40:L3:346:THR:O	40:L3:348:ARG:N	2.41	0.54
44:L7:158:LYS:HG2	44:L7:203:TRP:HH2	1.72	0.54
44:L7:214:TRP:CE2	44:L7:219:LYS:HD2	2.42	0.54
55:M9:105:LEU:HD12	55:M9:135:LYS:HG3	1.89	0.54
1:6:151:G:N2	1:6:163:G:N2	2.56	0.54
1:6:1590:G:H2'	1:6:1591:C:C6	2.42	0.54
1:6:1691:A:H2'	1:6:1692:G:C8	2.43	0.54
4:s2:90:THR:C	4:s2:92:ALA:H	2.15	0.54
8:s6:130:PRO:HB3	60:n4:81:PRO:HG2	1.89	0.54
27:d5:49:ARG:O	27:d5:53:GLU:HB2	2.08	0.54
36:5:2947:G:OP2	36:5:2947:G:H4'	2.07	0.54
41:l4:49:ALA:HA	41:l4:109:TRP:CZ2	2.42	0.54
79:q3:70:THR:OG1	79:q3:71:VAL:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:p0:205:THR:C	82:p0:207:GLU:H	2.16	0.54
1:2:1011:G:OP2	86:2:2091:OHX:N6	2.41	0.54
1:2:1041:G:OP1	86:2:2148:OHX:N5	2.40	0.54
3:S1:193:ILE:O	3:S1:197:ILE:HG12	2.08	0.54
6:S4:104:ASP:HB2	6:S4:108:ARG:H	1.73	0.54
19:C7:36:ASP:OD2	19:C7:36:ASP:N	2.41	0.54
26:D4:62:THR:HA	26:D4:69:SER:HA	1.89	0.54
33:E1:109:ASP:O	33:E1:111:GLU:N	2.41	0.54
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.89	0.54
36:1:2242:A:H5'	39:L2:243:THR:HG23	1.90	0.54
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.08	0.54
48:M1:60:ARG:HB2	48:M1:63:GLU:HG3	1.90	0.54
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.38	0.54
1:6:1495:C:OP1	86:6:2110:OHX:N4	2.41	0.54
1:6:1796:C:H5	28:d6:6:ALA:H	1.54	0.54
16:c4:103:ARG:HH12	28:d6:48:ALA:HB3	1.73	0.54
20:c8:46:VAL:HG22	20:c8:72:ILE:HG22	1.89	0.54
20:c8:50:ALA:HB2	20:c8:72:ILE:HD12	1.90	0.54
36:5:269:G:P	51:m5:44:ARG:HH22	2.31	0.54
36:5:770:G:N7	86:5:4096:OHX:N6	2.55	0.54
36:5:1017:C:H42	36:5:2671:A:P	2.31	0.54
36:5:2513:U:H1'	36:5:2514:U:C6	2.43	0.54
36:5:3215:A:O5'	50:m4:121:MET:HE1	2.08	0.54
54:m8:185:LYS:HD3	54:m8:186:VAL:HG23	1.90	0.54
1:2:542:A:H5''	1:2:544:A:N7	2.23	0.54
1:2:936:G:N7	28:D6:15:ARG:NH1	2.56	0.54
1:2:1490:C:H4'	1:2:1491:U:OP1	2.07	0.54
17:C5:18:ARG:NH1	20:C8:90:ASN:O	2.41	0.54
18:C6:50:GLU:O	18:C6:54:LEU:HB2	2.08	0.54
19:C7:108:ASP:N	19:C7:108:ASP:OD1	2.40	0.54
28:D6:23:CYS:SG	28:D6:74:CYS:HB3	2.47	0.54
37:3:79:A:C2	37:3:102:A:C4	2.95	0.54
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.37	0.54
43:L6:3:ALA:HB2	68:O2:77:ALA:HB2	1.89	0.54
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.90	0.54
1:6:1091:A:H4'	1:6:1092:A:O5'	2.08	0.54
4:s2:186:LYS:O	4:s2:189:GLN:HB2	2.07	0.54
12:c0:55:VAL:HA	12:c0:68:LEU:HA	1.90	0.54
15:c3:54:LEU:HB3	15:c3:60:VAL:HG11	1.90	0.54
34:sR:37:SER:OG	34:sR:38:ARG:N	2.41	0.54
36:5:2187:G:OP2	86:5:3973:OHX:N4	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2612:U:H2'	36:5:2613:U:O4'	2.08	0.54
36:5:3078:U:H4'	36:5:3079:U:O5'	2.08	0.54
86:5:3974:OHX:N4	86:5:4242:OHX:N2	2.56	0.54
49:m3:75:PHE:O	49:m3:79:GLU:HB2	2.07	0.54
54:m8:58:ASN:HB3	54:m8:144:ARG:NH2	2.21	0.54
1:2:78:A:O4'	8:S6:154:ARG:HG3	2.08	0.54
5:S3:150:MET:HE3	35:SM:110:TRP:HB3	1.89	0.54
17:C5:75:PRO:HA	17:C5:93:VAL:HG12	1.90	0.54
18:C6:24:ALA:HA	18:C6:63:ILE:HA	1.90	0.54
20:C8:30:TYR:CE2	20:C8:40:ARG:HD2	2.43	0.54
21:C9:63:ARG:O	21:C9:67:MET:HE3	2.09	0.54
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.28	0.54
36:1:128:G:H2'	36:1:129:U:O4'	2.08	0.54
36:1:658:G:OP1	86:1:4044:OHX:N4	2.41	0.54
36:1:2093:A:H3'	36:1:2093:A:N3	2.23	0.54
36:1:2373:A:H3'	36:1:2373:A:OP2	2.08	0.54
42:L5:40:HIS:CD2	42:L5:42:ALA:H	2.22	0.54
42:L5:111:GLN:C	42:L5:113:LEU:H	2.16	0.54
63:N7:135:ARG:HG2	63:N7:135:ARG:HH21	1.72	0.54
1:6:86:A:OP2	86:6:2187:OHX:N1	2.42	0.54
1:6:881:A:OP2	86:6:2108:OHX:N5	2.41	0.54
1:6:1087:A:H5'	1:6:1298:U:O4	2.07	0.54
5:s3:140:GLY:HA3	5:s3:182:LEU:HD22	1.90	0.54
12:c0:59:PHE:CZ	12:c0:62:GLN:HA	2.44	0.54
24:d2:11:LEU:HD11	24:d2:37:PHE:CE2	2.42	0.54
36:5:1235:U:H4'	36:5:1236:G:H5'	1.89	0.54
36:5:1599:G:OP1	86:5:4137:OHX:N4	2.41	0.54
86:5:4066:OHX:N1	86:5:4143:OHX:N2	2.56	0.54
42:l5:260:PHE:HB3	42:l5:264:GLN:HB2	1.90	0.54
49:m3:174:ARG:HG3	72:o6:9:ILE:HD11	1.90	0.54
57:n1:9:SER:O	57:n1:11:THR:HG23	2.08	0.54
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.90	0.54
71:o5:87:ALA:O	71:o5:90:ARG:N	2.33	0.54
1:2:1595:U:N3	1:2:1600:A:H2	2.06	0.53
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.08	0.53
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.90	0.53
36:1:1498:A:H2'	36:1:1499:C:C6	2.43	0.53
36:1:2808:A:H4'	36:1:2809:C:O5'	2.08	0.53
36:1:2898:G:H5''	36:1:2899:C:C5'	2.38	0.53
46:L9:45:PHE:CD1	46:L9:55:VAL:HG12	2.43	0.53
49:M3:27:ASP:OD1	49:M3:31:LYS:HE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:133:LYS:HG2	55:M9:134:HIS:CD2	2.43	0.53
1:6:1595:U:N3	1:6:1600:A:H2	2.06	0.53
86:6:2059:OHX:N1	86:6:2146:OHX:N3	2.57	0.53
86:6:2120:OHX:N2	86:6:2170:OHX:N1	2.56	0.53
86:6:2120:OHX:N2	86:6:2170:OHX:N5	2.57	0.53
17:c5:90:ILE:HG21	17:c5:109:PRO:HG3	1.89	0.53
24:d2:106:THR:HG21	24:d2:121:VAL:HG23	1.91	0.53
36:5:186:U:OP2	86:5:3910:OHX:N4	2.41	0.53
36:5:3214:U:C4	50:m4:121:MET:HG3	2.43	0.53
86:5:3979:OHX:N6	86:5:4199:OHX:N3	2.56	0.53
38:8:52:A:H62	75:o9:27:ILE:HD13	1.73	0.53
43:l6:176:PHE:H	50:m4:117:ARG:NH2	2.07	0.53
45:l8:50:VAL:HG22	45:l8:52:TRP:CE2	2.43	0.53
78:q2:46:LYS:O	86:q2:502:OHX:N3	2.41	0.53
1:2:1266:U:H2'	1:2:1267:G:H8	1.73	0.53
1:2:1397:U:C5	1:2:1399:C:C2	2.95	0.53
86:2:2045:OHX:N4	86:2:2100:OHX:N6	2.56	0.53
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.89	0.53
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.09	0.53
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.08	0.53
36:1:1108:U:H2'	36:1:1109:U:H6	1.73	0.53
36:1:1162:U:H1'	68:O2:12:LYS:HE2	1.90	0.53
36:1:1349:G:O2'	36:1:1350:A:O4'	2.19	0.53
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.90	0.53
39:L2:150:LEU:HB3	39:L2:151:PRO:HD2	1.89	0.53
42:L5:40:HIS:CD2	57:N1:69:LYS:HA	2.43	0.53
45:L8:78:PHE:O	45:L8:80:TYR:N	2.39	0.53
46:L9:8:GLN:NE2	46:L9:69:ARG:HG2	2.23	0.53
1:6:656:G:H2'	1:6:657:U:C6	2.44	0.53
1:6:1182:U:H3	1:6:1185:U:H5''	1.73	0.53
1:6:1796:C:OP2	28:d6:92:ARG:HD2	2.09	0.53
2:s0:177:LEU:O	2:s0:181:VAL:HG13	2.08	0.53
3:s1:104:ASP:OD2	3:s1:214:LYS:HE3	2.08	0.53
6:s4:86:PHE:CE2	6:s4:102:VAL:HG23	2.43	0.53
7:s5:82:PHE:CE1	30:d8:49:ARG:HD2	2.43	0.53
12:c0:73:VAL:O	12:c0:77:ARG:HB2	2.09	0.53
31:d9:15:GLY:C	31:d9:17:GLY:H	2.16	0.53
31:d9:21:CYS:CB	31:d9:39:CYS:HB3	2.32	0.53
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.42	0.53
36:5:1877:U:OP2	86:5:3958:OHX:N1	2.41	0.53
40:l3:224:HIS:HB2	40:l3:270:ARG:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:270:LYS:C	42:l5:272:TYR:H	2.15	0.53
46:l9:171:ASP:OD1	46:l9:173:ARG:HD3	2.07	0.53
57:n1:126:VAL:HG23	57:n1:127:GLN:H	1.73	0.53
1:2:199:G:O2'	1:2:200:A:H8	1.91	0.53
1:2:780:A:C8	26:D4:8:ARG:HB3	2.42	0.53
1:2:836:U:H2'	1:2:837:G:C8	2.43	0.53
1:2:862:A:N7	15:C3:64:ARG:NH2	2.54	0.53
1:2:953:G:H2'	1:2:954:G:C8	2.44	0.53
1:2:1277:G:H5'	5:S3:140:GLY:HA2	1.89	0.53
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.90	0.53
14:C2:124:LYS:O	14:C2:126:TRP:N	2.39	0.53
16:C4:85:ALA:H	16:C4:119:THR:HG23	1.73	0.53
18:C6:9:THR:HG21	18:C6:88:GLY:HA2	1.90	0.53
36:1:75:G:H5''	49:M3:58:VAL:HG13	1.90	0.53
36:1:1712:G:N1	36:1:1731:A:OP2	2.37	0.53
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.35	0.53
36:1:3224:G:O6	86:1:3890:OHX:N4	2.42	0.53
86:1:3969:OHX:N3	86:1:4155:OHX:N1	2.56	0.53
45:L8:50:VAL:HG22	45:L8:52:TRP:CE2	2.44	0.53
47:M0:24:ARG:HB2	47:M0:24:ARG:HH11	1.72	0.53
62:N6:11:ASP:HB3	62:N6:14:LYS:HB2	1.90	0.53
70:O4:86:LYS:O	70:O4:90:ILE:HG12	2.08	0.53
1:6:79:C:H4'	8:s6:173:PRO:O	2.08	0.53
1:6:1324:G:N7	86:6:2103:OHX:N2	2.55	0.53
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.43	0.53
20:c8:145:ARG:HB3	35:sM:68:ARG:HH12	1.73	0.53
24:d2:76:SER:HA	24:d2:77:PRO:C	2.33	0.53
36:5:2902:A:OP1	46:l9:170:LYS:HE3	2.07	0.53
36:5:2971:A:H5''	36:5:2972:G:O5'	2.09	0.53
36:5:3327:G:O6	86:5:3959:OHX:N1	2.41	0.53
86:5:3979:OHX:N4	86:5:4199:OHX:N1	2.57	0.53
40:l3:265:ALA:C	40:l3:266:ARG:HG2	2.34	0.53
41:l4:269:SER:O	41:l4:270:SER:OG	2.25	0.53
45:l8:151:VAL:HG13	45:l8:199:ALA:HB2	1.89	0.53
45:l8:160:ILE:HG23	45:l8:164:VAL:HG13	1.90	0.53
48:m1:107:ASP:OD1	48:m1:107:ASP:N	2.41	0.53
51:m5:44:ARG:HB3	51:m5:47:LYS:HB3	1.89	0.53
65:n9:23:LYS:HB3	65:n9:24:PRO:CD	2.37	0.53
72:o6:68:ARG:HD2	72:o6:68:ARG:O	2.08	0.53
1:2:1776:A:H2'	1:2:1777:G:C8	2.43	0.53
2:S0:56:LYS:HZ3	2:S0:158:VAL:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:102:VAL:HG11	4:S2:129:ILE:HG12	1.89	0.53
6:S4:123:LEU:HD12	6:S4:161:LYS:HA	1.90	0.53
11:S9:57:ARG:HG3	11:S9:97:LEU:HD21	1.90	0.53
14:C2:57:ALA:HB3	14:C2:85:LYS:HE2	1.89	0.53
16:C4:13:VAL:HG22	16:C4:77:THR:HG23	1.90	0.53
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.07	0.53
27:D5:38:HIS:HE1	27:D5:70:LYS:HD2	1.74	0.53
36:1:539:C:H2'	36:1:540:U:H6	1.72	0.53
36:1:1176:C:H2'	36:1:1177:G:N2	2.23	0.53
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.39	0.53
36:1:2208:A:N1	86:1:4042:OHX:N4	2.57	0.53
38:4:69:U:OP2	86:O7:104:OHX:N3	2.42	0.53
44:L7:56:GLU:HA	44:L7:59:GLU:HB3	1.90	0.53
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.08	0.53
66:O0:34:LEU:HD23	66:O0:59:TYR:CB	2.38	0.53
68:O2:60:ASN:OD1	68:O2:62:LYS:HB2	2.08	0.53
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	1.91	0.53
1:6:407:A:H5'	8:s6:94:ARG:HH21	1.73	0.53
1:6:489:C:O2'	1:6:490:C:O4'	2.26	0.53
1:6:819:G:O2'	1:6:821:U:OP2	2.26	0.53
1:6:1556:A:H5''	17:c5:115:TYR:OH	2.07	0.53
17:c5:65:LEU:O	17:c5:67:ALA:N	2.39	0.53
80:e0:50:VAL:HA	80:e0:54:ARG:HA	1.90	0.53
34:sR:106:HIS:HD1	34:sR:128:ASP:CG	2.15	0.53
36:5:129:U:H2'	36:5:130:A:C8	2.44	0.53
36:5:990:U:O4	86:5:4185:OHX:N6	2.42	0.53
39:l2:105:GLY:HA3	39:l2:160:SER:HB3	1.89	0.53
41:l4:126:ILE:HG13	41:l4:238:LEU:HD13	1.89	0.53
41:l4:327:LEU:HD22	41:l4:327:LEU:H	1.74	0.53
47:m0:81:GLY:C	47:m0:83:ASP:H	2.16	0.53
58:n2:104:ARG:NH1	58:n2:106:ALA:HB2	2.23	0.53
74:o8:8:ILE:HD12	74:o8:8:ILE:H	1.72	0.53
1:2:740:A:C2'	1:2:741:C:H5''	2.33	0.53
1:2:1518:C:OP1	86:2:2122:OHX:N5	2.40	0.53
4:S2:139:ILE:HG22	4:S2:141:ARG:HD2	1.90	0.53
34:SR:9:LEU:HG	34:SR:10:ARG:N	2.24	0.53
36:1:304:G:H5'	36:1:304:G:N3	2.24	0.53
36:1:770:G:N7	86:1:4094:OHX:N6	2.57	0.53
36:1:1078:U:O4	86:1:3963:OHX:N2	2.41	0.53
36:1:2320:A:H2	79:Q3:16:VAL:HG12	1.73	0.53
36:1:2616:C:H2'	36:1:2617:U:H5'	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3289:G:N7	86:1:4130:OHX:N4	2.57	0.53
36:1:3377:G:H21	40:L3:332:ARG:HH21	1.56	0.53
42:L5:119:TYR:OH	42:L5:135:VAL:HG12	2.09	0.53
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.44	0.53
52:M6:12:LYS:HA	52:M6:40:GLU:O	2.08	0.53
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.41	0.53
59:N3:89:ASP:OD1	59:N3:91:VAL:HG13	2.08	0.53
72:O6:95:ALA:O	72:O6:99:ARG:HB3	2.08	0.53
74:O8:20:VAL:HG11	74:O8:45:VAL:HG12	1.90	0.53
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.09	0.53
1:6:217:A:O2'	1:6:218:A:H8	1.91	0.53
86:6:2120:OHX:N4	86:6:2170:OHX:N3	2.56	0.53
2:s0:69:ASN:HB3	2:s0:71:GLU:OE1	2.09	0.53
6:s4:56:LEU:HG	6:s4:60:GLU:OE1	2.07	0.53
21:c9:15:ILE:HD13	21:c9:60:SER:HA	1.90	0.53
23:d1:3:ASN:HB3	23:d1:7:GLN:O	2.08	0.53
36:5:353:G:O6	73:o7:55:ARG:NH1	2.41	0.53
36:5:621:A:H2'	36:5:622:A:C8	2.43	0.53
36:5:783:A:OP2	86:5:4194:OHX:N6	2.41	0.53
36:5:1817:G:OP1	86:5:4181:OHX:N1	2.41	0.53
86:5:4090:OHX:N2	86:q1:102:OHX:N4	2.56	0.53
61:n5:115:ARG:HG3	61:n5:115:ARG:NH1	2.24	0.53
71:o5:69:LEU:HD23	71:o5:69:LEU:H	1.71	0.53
1:2:694:U:N3	9:S7:98:ILE:HD12	2.23	0.53
1:2:793:A:H5''	1:2:794:U:C5	2.43	0.53
1:2:894:U:H2'	1:2:895:G:C8	2.44	0.53
1:2:1166:A:H2'	1:2:1167:G:O4'	2.09	0.53
1:2:1657:U:C2	86:2:2090:OHX:N1	2.76	0.53
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.09	0.53
6:S4:36:HIS:CG	6:S4:85:GLY:HA3	2.44	0.53
36:1:871:U:H2'	36:1:872:U:C6	2.44	0.53
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.09	0.53
36:1:1658:G:H2'	36:1:1659:U:C6	2.44	0.53
36:1:1686:U:O2	36:1:1688:U:H1'	2.08	0.53
36:1:2213:A:N1	36:1:2429:G:H1'	2.24	0.53
36:1:2358:A:H2'	36:1:2359:C:O4'	2.08	0.53
36:1:2948:C:O2'	40:L3:242:THR:HG22	2.09	0.53
39:L2:14:SER:C	39:L2:16:PHE:H	2.17	0.53
42:L5:260:PHE:HD1	42:L5:264:GLN:HE22	1.57	0.53
47:M0:76:MET:HE3	47:M0:148:VAL:HA	1.91	0.53
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.09	0.53
1:6:1391:A:H2'	1:6:1392:U:H6	1.73	0.53
5:s3:162:GLN:O	5:s3:164:VAL:N	2.42	0.53
6:s4:87:MET:HE3	6:s4:226:PHE:CE1	2.44	0.53
6:s4:163:ASP:O	6:s4:164:LEU:HB2	2.09	0.53
33:e1:103:LEU:HD23	33:e1:105:TYR:HD2	1.73	0.53
36:5:167:U:H2'	36:5:168:U:C6	2.43	0.53
36:5:1238:C:H2'	36:5:1239:C:O4'	2.09	0.53
36:5:1554:U:H4'	36:5:1555:U:OP1	2.09	0.53
36:5:1940:G:N2	36:5:3362:A:H8	2.04	0.53
86:7:217:OHX:N4	86:7:225:OHX:N2	2.57	0.53
86:8:219:OHX:N5	86:8:227:OHX:N1	2.56	0.53
1:2:312:A:C2	1:2:314:C:H2'	2.44	0.53
1:2:1796:C:H5	28:D6:6:ALA:H	1.57	0.53
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.43	0.53
20:C8:18:LEU:HD22	20:C8:70:VAL:HG13	1.91	0.53
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	1.90	0.53
27:D5:40:VAL:C	27:D5:75:LEU:HD11	2.34	0.53
34:SR:70:ASP:HB2	34:SR:112:SER:HA	1.90	0.53
36:1:279:U:H2'	36:1:280:U:C6	2.44	0.53
36:1:551:A:OP2	36:1:551:A:H2'	2.08	0.53
36:1:981:U:O2'	36:1:982:C:OP1	2.24	0.53
36:1:1723:A:N1	36:1:1788:C:O2'	2.33	0.53
42:L5:260:PHE:HD1	42:L5:264:GLN:NE2	2.07	0.53
44:L7:24:GLU:C	44:L7:26:VAL:H	2.17	0.53
50:M4:24:LYS:HG2	50:M4:62:GLN:O	2.08	0.53
51:M5:153:ASP:OD2	51:M5:155:VAL:HG23	2.09	0.53
54:M8:180:ARG:HH11	54:M8:185:LYS:HB3	1.74	0.53
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.44	0.53
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.91	0.53
2:s0:126:PRO:HG2	2:s0:151:SER:HB2	1.90	0.53
7:s5:20:PHE:CE1	7:s5:22:PRO:HA	2.44	0.53
8:s6:214:LYS:HB3	8:s6:218:GLU:OE1	2.09	0.53
27:d5:57:TYR:CE2	27:d5:68:ARG:HD3	2.44	0.53
34:sR:21:THR:HG23	34:sR:37:SER:HA	1.91	0.53
36:5:830:A:H5'	36:5:831:G:OP2	2.09	0.53
36:5:993:G:OP1	86:5:3911:OHX:N6	2.42	0.53
45:l8:163:VAL:O	45:l8:166:LEU:HB2	2.09	0.53
52:m6:27:LEU:HD22	52:m6:101:ARG:HB2	1.91	0.53
66:o0:40:LYS:HD3	66:o0:93:LEU:O	2.07	0.53
67:o1:83:GLU:O	67:o1:85:ALA:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:o3:73:ARG:HD3	69:o3:82:ARG:HH11	1.73	0.53
1:2:599:A:H5'	25:D3:123:LYS:NZ	2.24	0.53
1:2:1481:C:O2'	1:2:1482:C:O5'	2.24	0.53
9:S7:49:ILE:O	9:S7:57:ALA:N	2.41	0.53
33:E1:147:VAL:HG23	33:E1:148:TYR:CD1	2.44	0.53
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.23	0.53
36:1:1620:U:H2'	36:1:1621:A:C8	2.44	0.53
36:1:1872:C:H5'	55:M9:58:HIS:HB2	1.91	0.53
36:1:2503:G:HO2'	36:1:2504:U:H5	1.57	0.53
41:L4:316:ASN:HD21	44:L7:150:LYS:HD2	1.74	0.53
47:M0:21:ARG:O	47:M0:24:ARG:HG3	2.09	0.53
47:M0:30:LYS:HD2	47:M0:63:GLU:OE1	2.09	0.53
56:N0:1:MET:SD	56:N0:36:ILE:HD13	2.49	0.53
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.09	0.53
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	2.44	0.53
72:O6:54:GLU:OE2	72:O6:86:LYS:NZ	2.42	0.53
1:6:571:G:H5'	25:d3:114:LYS:HE2	1.91	0.53
7:s5:143:ARG:NH1	7:s5:218:GLU:OE2	2.42	0.53
8:s6:57:ASP:HA	8:s6:106:LEU:HA	1.90	0.53
28:d6:39:MET:HE2	28:d6:70:LYS:HD2	1.91	0.53
29:d7:63:LEU:O	29:d7:74:SER:HB2	2.08	0.53
40:l3:218:ILE:CG1	40:l3:276:THR:HG23	2.38	0.53
41:l4:312:VAL:HG23	41:l4:313:LEU:HB2	1.91	0.53
49:m3:167:PHE:O	49:m3:170:LEU:HB2	2.08	0.53
68:o2:32:TRP:CZ2	68:o2:53:PRO:HD2	2.44	0.53
71:o5:86:ARG:HG3	71:o5:90:ARG:NH2	2.24	0.53
74:o8:62:ALA:C	74:o8:64:LYS:H	2.17	0.53
1:2:579:A:OP1	5:S3:179:GLN:NE2	2.40	0.53
1:2:768:C:C2	11:S9:143:ILE:HG12	2.43	0.53
1:2:1475:A:H2'	1:2:1476:C:O4'	2.09	0.53
87:2:2178:PCY:H383	87:2:2178:PCY:C37	2.38	0.53
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.74	0.53
5:S3:8:LYS:HE2	22:D0:61:LYS:HD3	1.90	0.53
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.41	0.53
36:1:239:G:O6	86:1:4032:OHX:N3	2.41	0.53
36:1:1064:A:H4'	36:1:1065:A:O5'	2.08	0.53
36:1:2402:A:OP2	86:1:4087:OHX:N6	2.41	0.53
36:1:3095:U:H2'	36:1:3096:C:C6	2.43	0.53
37:3:49:G:N7	42:L5:58:LYS:HG3	2.24	0.53
41:L4:39:PHE:CG	41:L4:242:ALA:HB2	2.44	0.53
44:L7:151:ARG:HD2	44:L7:244:ASN:ND2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:54:THR:O	63:N7:57:HIS:HB2	2.07	0.53
68:O2:20:HIS:O	68:O2:21:HIS:HB2	2.08	0.53
1:6:639:U:OP2	9:s7:119:THR:OG1	2.26	0.53
2:s0:140:ASN:ND2	4:s2:62:PRO:HD3	2.23	0.53
8:s6:120:GLU:HA	8:s6:125:THR:HG21	1.91	0.53
9:s7:118:LEU:HD11	9:s7:122:HIS:NE2	2.24	0.53
15:c3:31:GLU:HA	15:c3:34:ILE:HD12	1.91	0.53
16:c4:31:THR:HA	16:c4:38:THR:HA	1.91	0.53
28:d6:30:ILE:HD11	28:d6:34:LYS:HB3	1.91	0.53
36:5:132:C:H2'	36:5:133:U:H5''	1.90	0.53
36:5:850:U:H2'	36:5:851:C:C6	2.44	0.53
36:5:1586:G:OP1	86:5:3992:OHX:N3	2.42	0.53
36:5:1770:G:H5'	36:5:1771:C:OP2	2.08	0.53
42:l5:83:LEU:HB3	42:l5:88:ILE:HB	1.89	0.53
52:m6:34:VAL:HG11	52:m6:112:TYR:CE1	2.44	0.53
61:n5:67:ILE:HD12	61:n5:121:LYS:HG3	1.90	0.53
63:n7:135:ARG:HH21	63:n7:135:ARG:CB	2.22	0.53
69:o3:52:VAL:HG21	69:o3:99:ARG:NH1	2.23	0.53
1:2:1150:G:H4'	1:2:1151:A:OP2	2.07	0.53
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.91	0.53
8:S6:20:ASP:O	8:S6:24:ILE:HG13	2.09	0.53
8:S6:50:PHE:CG	8:S6:111:LEU:HD13	2.44	0.53
12:C0:6:GLU:O	12:C0:10:LYS:HG3	2.08	0.53
16:C4:19:ILE:HB	16:C4:83:ILE:HG13	1.91	0.53
34:SR:274:LEU:HD13	34:SR:313:TRP:CE2	2.44	0.53
35:SM:51:ARG:HB2	35:SM:52:PRO:HD2	1.90	0.53
35:SM:134:ASP:OD1	35:SM:134:ASP:O	2.26	0.53
36:1:1231:A:OP2	86:1:4084:OHX:N6	2.42	0.53
36:1:2273:G:O2'	36:1:2274:U:P	2.67	0.53
36:1:2734:A:OP1	86:1:4004:OHX:N3	2.42	0.53
48:M1:8:PRO:HD2	48:M1:10:ARG:H	1.74	0.53
49:M3:46:ILE:HD12	49:M3:49:ARG:NH1	2.23	0.53
1:6:318:U:O4	86:6:2160:OHX:N4	2.41	0.53
19:c7:109:LEU:O	19:c7:113:LEU:HB2	2.09	0.53
22:d0:37:VAL:HG21	22:d0:112:VAL:HG11	1.91	0.53
26:d4:91:LEU:HB3	26:d4:97:ALA:HB3	1.91	0.53
36:5:1519:G:H2'	36:5:1520:G:H8	1.74	0.53
36:5:3053:G:O6	86:5:4173:OHX:N6	2.41	0.53
86:5:4066:OHX:N3	86:5:4143:OHX:N4	2.57	0.53
40:l3:44:THR:OG1	40:l3:182:GLN:O	2.27	0.53
40:l3:92:TYR:HB2	40:l3:157:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:33:ASP:O	41:l4:37:THR:HG23	2.09	0.53
47:m0:171:TRP:HB3	47:m0:174:THR:HG21	1.91	0.53
51:m5:36:ILE:HG12	51:m5:64:VAL:HG23	1.91	0.53
53:m7:154:GLU:HA	53:m7:155:GLU:OE2	2.08	0.53
54:m8:87:VAL:O	54:m8:107:THR:HG23	2.09	0.53
64:n8:27:LYS:O	64:n8:28:HIS:HB2	2.09	0.53
82:p0:193:ASN:N	82:p0:193:ASN:OD1	2.41	0.53
86:2:2045:OHX:N1	86:2:2100:OHX:N3	2.56	0.52
6:S4:54:TYR:OH	6:S4:97:GLU:OE2	2.24	0.52
20:C8:45:LEU:HD13	21:C9:36:ILE:HA	1.90	0.52
24:D2:82:LYS:O	24:D2:83:ILE:HG22	2.10	0.52
36:1:380:U:H2'	36:1:381:U:H6	1.73	0.52
36:1:1074:U:O2'	36:1:1075:A:H2'	2.10	0.52
36:1:1338:C:OP2	86:1:4196:OHX:N2	2.42	0.52
36:1:1688:U:H2'	36:1:1689:U:H6	1.73	0.52
86:1:3969:OHX:N6	86:1:4155:OHX:N4	2.58	0.52
39:L2:30:ARG:O	39:L2:163:ARG:NH2	2.27	0.52
46:L9:71:VAL:O	46:L9:75:VAL:HG23	2.09	0.52
48:M1:133:ARG:NH1	48:M1:152:HIS:O	2.39	0.52
62:N6:3:LYS:HG3	62:N6:8:VAL:HG13	1.90	0.52
70:O4:67:LYS:HA	70:O4:70:LYS:HE3	1.91	0.52
79:Q3:56:THR:HG22	79:Q3:63:THR:OG1	2.09	0.52
1:6:329:G:H5'	10:s8:99:ALA:HB3	1.90	0.52
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.44	0.52
7:s5:25:LEU:HB2	18:c6:27:GLY:O	2.08	0.52
17:c5:22:LEU:HD23	17:c5:23:GLU:H	1.73	0.52
18:c6:129:PHE:CE1	22:d0:78:THR:HA	2.44	0.52
36:5:3084:C:H2'	36:5:3085:G:O4'	2.09	0.52
36:5:3163:A:N6	36:5:3288:G:O6	2.42	0.52
43:l6:172:HIS:CD2	43:l6:173:MET:HG2	2.44	0.52
45:l8:121:SER:O	45:l8:123:GLN:N	2.41	0.52
46:l9:36:LYS:HB3	46:l9:78:MET:HE1	1.89	0.52
48:m1:16:LYS:HG3	48:m1:130:VAL:HG13	1.90	0.52
58:n2:43:VAL:HG23	58:n2:49:ASN:HB3	1.90	0.52
63:n7:110:ALA:O	63:n7:114:VAL:HG23	2.09	0.52
1:2:918:U:H2'	1:2:919:A:H8	1.73	0.52
1:2:1291:G:N2	1:2:1324:G:H1	2.06	0.52
1:2:1681:A:H1'	8:S6:66:GLY:HA3	1.90	0.52
3:S1:146:GLN:O	3:S1:148:ASN:N	2.37	0.52
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.90	0.52
14:C2:46:ARG:HA	33:E1:103:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:211:ILE:HG22	34:SR:223:TRP:HD1	1.73	0.52
36:1:174:C:H2'	36:1:175:C:C6	2.44	0.52
36:1:674:G:O4'	41:L4:117:GLU:HG3	2.10	0.52
36:1:2897:A:H2'	36:1:2899:C:H5''	1.89	0.52
41:L4:52:VAL:CG1	41:L4:99:MET:HE3	2.39	0.52
50:M4:8:LYS:HE3	50:M4:10:SER:N	2.24	0.52
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.42	0.52
56:N0:8:GLN:HB3	56:N0:64:ILE:HD11	1.90	0.52
1:6:491:C:N4	1:6:496:G:O6	2.42	0.52
1:6:515:A:H2'	1:6:516:G:O4'	2.10	0.52
1:6:1270:G:H1'	1:6:1447:C:O2	2.08	0.52
5:s3:64:ARG:NH2	5:s3:65:ARG:HD2	2.24	0.52
12:c0:3:MET:HE1	12:c0:45:ALA:HB2	1.91	0.52
22:d0:33:GLN:O	22:d0:37:VAL:HG23	2.08	0.52
36:5:1433:A:P	68:o2:19:ARG:HH22	2.32	0.52
36:5:2115:G:H22	36:5:2120:A:H1'	1.73	0.52
36:5:2240:G:H2'	36:5:2241:U:O4'	2.09	0.52
36:5:2274:U:OP2	86:5:3985:OHX:N6	2.42	0.52
36:5:2279:A:H2'	36:5:2288:G:O6	2.10	0.52
36:5:2400:G:OP1	86:5:4110:OHX:N1	2.42	0.52
36:5:3027:A:H2'	36:5:3028:G:O4'	2.08	0.52
36:5:3047:U:C2'	36:5:3048:A:H5'	2.39	0.52
36:5:3243:A:C8	52:m6:156:LEU:HD13	2.45	0.52
41:l4:140:HIS:CD2	41:l4:247:PHE:H	2.26	0.52
54:m8:178:ARG:HD3	64:n8:50:PRO:HB2	1.91	0.52
1:2:541:A:O2'	1:2:542:A:H4'	2.08	0.52
1:2:736:C:H2'	1:2:737:A:H5'	1.92	0.52
1:2:1280:C:H2'	1:2:1281:G:C8	2.44	0.52
2:S0:193:GLN:C	2:S0:195:TRP:H	2.18	0.52
6:S4:2:ALA:O	6:S4:4:GLY:N	2.39	0.52
7:S5:37:GLN:NE2	18:C6:53:LEU:HD13	2.24	0.52
7:S5:90:ILE:HD11	7:S5:130:ILE:HG13	1.91	0.52
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.10	0.52
8:S6:131:LYS:O	60:N4:82:ILE:HA	2.09	0.52
20:C8:88:ARG:NH2	20:C8:91:ASP:OD2	2.43	0.52
28:D6:18:VAL:HG11	28:D6:33:ASP:HB3	1.91	0.52
28:D6:82:ARG:O	28:D6:84:VAL:HG12	2.10	0.52
33:E1:109:ASP:HB2	33:E1:113:LYS:HG2	1.91	0.52
34:SR:241:PHE:O	34:SR:255:ALA:HB3	2.09	0.52
36:1:1458:U:H3	36:1:1474:A:H61	1.57	0.52
36:1:2218:G:H2'	36:1:2219:A:H8	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2341:A:OP2	40:L3:247:ARG:NH2	2.43	0.52
36:1:3259:U:H6	36:1:3259:U:H5'	1.74	0.52
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.09	0.52
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.45	0.52
42:L5:21:ARG:O	42:L5:25:GLU:HG3	2.10	0.52
46:L9:105:GLU:HG3	46:L9:109:ALA:N	2.22	0.52
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	1.92	0.52
74:O8:26:LYS:NZ	74:O8:28:ASN:OD1	2.43	0.52
78:Q2:65:THR:OG1	78:Q2:87:ARG:HG2	2.08	0.52
1:6:166:C:OP2	86:6:2169:OHX:N4	2.42	0.52
1:6:323:A:OP2	10:s8:10:LYS:HG3	2.08	0.52
1:6:484:C:N4	1:6:503:G:H22	2.07	0.52
1:6:1271:G:H2'	1:6:1272:U:O4'	2.09	0.52
1:6:1391:A:H2'	1:6:1392:U:C6	2.44	0.52
1:6:1511:U:H2'	1:6:1512:G:C8	2.45	0.52
7:s5:117:THR:O	7:s5:121:ILE:HD12	2.09	0.52
8:s6:206:ALA:O	8:s6:210:GLN:HG3	2.09	0.52
17:c5:68:PRO:O	86:c5:201:OHX:N5	2.42	0.52
25:d3:60:GLU:CD	80:e0:3:LYS:HB2	2.34	0.52
36:5:2101:C:O2'	36:5:2102:U:OP1	2.28	0.52
36:5:2514:U:H6	36:5:2514:U:OP1	1.92	0.52
36:5:3163:A:O2'	36:5:3164:C:H5'	2.10	0.52
45:l8:244:ALA:HA	45:l8:247:ASP:HB2	1.91	0.52
53:m7:16:SER:HB2	53:m7:149:VAL:HG22	1.90	0.52
58:n2:19:VAL:O	58:n2:23:THR:OG1	2.28	0.52
61:n5:82:LEU:HD11	61:n5:135:ILE:HD12	1.91	0.52
1:2:918:U:H2'	1:2:919:A:C8	2.44	0.52
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.10	0.52
7:S5:161:ASP:HB2	30:D8:54:LEU:HD21	1.90	0.52
9:S7:21:ALA:HA	9:S7:24:PHE:HB2	1.89	0.52
9:S7:141:ARG:NH2	24:D2:49:GLU:OE1	2.42	0.52
17:C5:19:GLY:N	20:C8:93:THR:O	2.42	0.52
17:C5:108:ARG:HG3	17:C5:111:MET:HE3	1.92	0.52
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.25	0.52
27:D5:36:ALA:O	27:D5:38:HIS:N	2.39	0.52
29:D7:18:LYS:HE3	29:D7:22:LYS:O	2.09	0.52
36:1:73:C:O2	49:M3:59:ARG:HD3	2.09	0.52
36:1:2251:G:H2'	36:1:2252:A:H5''	1.91	0.52
36:1:2278:C:H2'	36:1:2279:A:H5''	1.90	0.52
36:1:3006:A:H2'	36:1:3007:U:O4'	2.08	0.52
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:214:TRP:CD2	44:L7:219:LYS:HD2	2.45	0.52
45:L8:94:PHE:CE2	45:L8:200:LEU:HG	2.44	0.52
54:M8:176:ARG:NH1	64:N8:46:ASP:OD1	2.42	0.52
56:N0:155:ARG:HH21	56:N0:155:ARG:CG	2.22	0.52
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	1.91	0.52
62:N6:79:ALA:HB1	62:N6:98:ASN:HB3	1.91	0.52
1:6:123:G:H21	6:s4:146:THR:HG21	1.73	0.52
1:6:151:G:H21	8:s6:13:GLN:CD	2.18	0.52
1:6:223:U:H2'	1:6:224:C:C6	2.45	0.52
8:s6:179:VAL:HA	8:s6:183:ARG:HH11	1.75	0.52
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.91	0.52
86:8:219:OHX:N5	86:8:227:OHX:N3	2.57	0.52
40:l3:152:LYS:HD3	40:l3:189:SER:HA	1.92	0.52
42:l5:105:ILE:O	42:l5:109:THR:HG23	2.09	0.52
46:l9:26:LYS:HG3	46:l9:35:THR:HG22	1.92	0.52
64:n8:75:LEU:HD12	64:n8:137:LYS:HD2	1.92	0.52
67:o1:31:ARG:O	67:o1:35:GLU:HB2	2.09	0.52
71:o5:7:TYR:CE1	71:o5:8:GLU:HG3	2.45	0.52
1:2:1064:G:H2'	1:2:1065:A:C8	2.44	0.52
1:2:1773:C:OP2	77:Q1:2:ARG:NH1	2.42	0.52
86:2:2045:OHX:N1	86:2:2100:OHX:N5	2.58	0.52
15:C3:142:GLU:HB2	15:C3:145:THR:HG23	1.89	0.52
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	1.91	0.52
28:D6:35:ALA:O	28:D6:37:LYS:HG2	2.10	0.52
30:D8:18:ARG:HD3	30:D8:25:VAL:O	2.10	0.52
34:SR:13:LEU:HD12	34:SR:310:ILE:HB	1.92	0.52
36:1:830:A:OP1	86:1:4008:OHX:N4	2.42	0.52
36:1:1722:U:OP1	55:M9:100:ARG:NH1	2.37	0.52
36:1:2843:U:H5''	36:1:2844:C:OP2	2.08	0.52
36:1:2880:U:H1'	40:L3:250:ALA:HB3	1.92	0.52
37:3:5:G:OP1	48:M1:143:ARG:NH2	2.42	0.52
44:L7:152:GLY:O	44:L7:163:LEU:HG	2.10	0.52
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.39	0.52
1:6:1:U:O2'	1:6:370:A:H5'	2.10	0.52
1:6:1402:G:OP1	19:c7:4:VAL:HA	2.10	0.52
3:s1:47:LEU:O	16:c4:37:GLU:HG3	2.09	0.52
5:s3:70:THR:HG22	5:s3:86:LEU:HB2	1.91	0.52
6:s4:47:PHE:O	6:s4:51:ARG:HB3	2.10	0.52
27:d5:43:ASP:O	27:d5:44:GLN:HB3	2.10	0.52
27:d5:55:PRO:HG3	27:d5:88:ILE:HG21	1.92	0.52
36:5:1240:A:H2'	36:5:1241:U:H5'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1522:U:H3'	61:n5:113:LEU:HD22	1.91	0.52
36:5:1530:U:OP1	86:5:3992:OHX:N1	2.42	0.52
36:5:2656:A:H4'	78:q2:98:LYS:HD2	1.92	0.52
36:5:3051:U:H1'	59:n3:92:PHE:CE1	2.44	0.52
51:m5:22:LEU:O	51:m5:26:ARG:HG3	2.10	0.52
54:m8:86:THR:HB	54:m8:105:ARG:HB2	1.91	0.52
68:o2:34:LYS:O	68:o2:36:LYS:NZ	2.41	0.52
83:p1:29:UNK:O	83:p1:31:UNK:N	2.43	0.52
1:2:374:U:OP1	13:C1:96:LYS:NZ	2.37	0.52
1:2:1291:G:O5'	1:2:1291:G:C8	2.55	0.52
2:S0:182:LEU:HB3	2:S0:188:LEU:HD23	1.91	0.52
3:S1:81:PHE:HD2	3:S1:82:ARG:H	1.58	0.52
12:C0:13:GLN:HG3	12:C0:14:TYR:H	1.75	0.52
36:1:391:A:OP2	86:1:4146:OHX:N1	2.43	0.52
36:1:979:U:O3'	36:1:980:A:C8	2.63	0.52
36:1:2174:G:H8	36:1:2174:G:OP1	1.93	0.52
36:1:2299:A:OP1	86:1:3943:OHX:N1	2.43	0.52
44:L7:92:ILE:HD11	54:M8:4:ASP:H	1.74	0.52
53:M7:29:THR:HA	53:M7:32:THR:CG2	2.38	0.52
57:N1:50:LYS:HB3	57:N1:92:ARG:NH1	2.25	0.52
70:O4:66:SER:HB3	70:O4:69:HIS:CE1	2.44	0.52
75:O9:9:ILE:O	75:O9:13:MET:HB2	2.09	0.52
1:6:1208:A:H5''	1:6:1209:C:OP2	2.10	0.52
1:6:1244:A:O2'	1:6:1245:G:O5'	2.25	0.52
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.10	0.52
3:s1:145:LYS:HA	3:s1:149:GLN:HE22	1.74	0.52
4:s2:234:PRO:O	4:s2:235:LEU:HB2	2.09	0.52
9:s7:66:SER:O	9:s7:68:ALA:N	2.42	0.52
10:s8:184:LEU:HB3	10:s8:189:LEU:HB2	1.90	0.52
16:c4:108:SER:O	16:c4:108:SER:OG	2.28	0.52
26:d4:62:THR:HB	26:d4:69:SER:OG	2.10	0.52
27:d5:71:ILE:CG2	27:d5:73:GLY:H	2.22	0.52
34:sR:10:ARG:NH1	34:sR:51:ASP:OD2	2.43	0.52
36:5:1307:G:O2'	36:5:1308:A:OP2	2.28	0.52
36:5:1615:C:H2'	36:5:1616:U:C6	2.44	0.52
39:l2:70:ARG:HH11	39:l2:72:ARG:NE	2.05	0.52
41:l4:206:LEU:HB2	41:l4:246:ARG:HD3	1.92	0.52
42:l5:55:PHE:CZ	42:l5:158:ARG:HB3	2.44	0.52
48:m1:96:PHE:O	48:m1:156:LYS:NZ	2.37	0.52
52:m6:65:ASN:OD1	52:m6:67:THR:HB	2.09	0.52
52:m6:128:ARG:HB3	52:m6:128:ARG:HH11	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.74	0.52
66:o0:99:ASP:O	66:o0:101:LEU:N	2.42	0.52
71:o5:101:THR:HG22	71:o5:104:GLN:H	1.75	0.52
1:2:72:A:C2	1:2:73:U:N3	2.78	0.52
1:2:463:U:H2'	1:2:464:A:H8	1.74	0.52
1:2:1615:C:O2'	1:2:1616:G:OP2	2.27	0.52
6:S4:166:SER:OG	6:S4:167:GLY:N	2.42	0.52
17:C5:18:ARG:HD3	20:C8:90:ASN:OD1	2.10	0.52
19:C7:46:LEU:O	19:C7:50:ILE:HG13	2.08	0.52
22:D0:28:SER:OG	22:D0:29:THR:N	2.41	0.52
28:D6:84:VAL:HG13	28:D6:85:ARG:HH21	1.74	0.52
36:1:1064:A:H5''	36:1:1066:G:O4'	2.10	0.52
36:1:1375:G:O6	64:N8:10:LYS:HE2	2.09	0.52
36:1:2794:G:H1'	36:1:2795:U:C6	2.44	0.52
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.39	0.52
61:N5:82:LEU:HD11	61:N5:135:ILE:HG21	1.90	0.52
1:6:485:A:N6	1:6:486:G:N3	2.57	0.52
3:s1:33:LYS:HD3	3:s1:232:HIS:ND1	2.25	0.52
4:s2:88:LYS:O	4:s2:89:GLN:NE2	2.40	0.52
8:s6:7:TYR:CD1	8:s6:125:THR:HA	2.44	0.52
15:c3:75:LEU:H	15:c3:75:LEU:HD12	1.75	0.52
25:d3:95:PHE:HE2	25:d3:136:TRP:HA	1.74	0.52
80:e0:14:VAL:HA	80:e0:17:GLN:HG2	1.90	0.52
34:sR:159:ASN:ND2	34:sR:164:ASP:H	2.07	0.52
36:5:517:G:H1	36:5:573:C:H42	1.56	0.52
36:5:830:A:O2'	36:5:1866:C:H2'	2.10	0.52
36:5:1564:U:H2'	36:5:1565:G:C8	2.45	0.52
36:5:2146:C:OP1	39:l2:200:ARG:NH1	2.43	0.52
36:5:3358:U:H2'	36:5:3359:A:C8	2.45	0.52
39:l2:65:ASP:HB3	39:l2:68:LYS:O	2.10	0.52
40:l3:56:ILE:HG12	40:l3:323:MET:HE1	1.92	0.52
52:m6:108:ILE:HG12	52:m6:108:ILE:O	2.08	0.52
68:o2:40:SER:O	68:o2:44:ARG:HG3	2.09	0.52
70:o4:104:VAL:HA	70:o4:107:GLU:HB2	1.92	0.52
1:2:94:U:H4'	6:S4:6:LYS:HA	1.90	0.52
1:2:324:U:O2'	13:C1:80:MET:HE1	2.09	0.52
1:2:1796:C:H5	28:D6:6:ALA:N	2.08	0.52
86:2:2045:OHX:N4	86:2:2100:OHX:N3	2.58	0.52
7:S5:23:VAL:HG11	18:C6:57:LEU:HB3	1.92	0.52
9:S7:16:LEU:HA	9:S7:19:GLN:HG3	1.91	0.52
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:3:LEU:HD23	20:C8:5:VAL:HG22	1.92	0.52
36:1:92:G:H5''	36:1:94:G:N7	2.24	0.52
36:1:157:A:C8	72:O6:26:ILE:HG12	2.45	0.52
36:1:269:G:P	51:M5:44:ARG:HH22	2.32	0.52
36:1:1454:A:H5''	36:1:1455:U:C5'	2.38	0.52
36:1:2207:A:C2'	36:1:2208:A:H5'	2.40	0.52
36:1:2748:A:O2'	42:L5:48:LYS:HE2	2.10	0.52
40:L3:211:GLN:O	40:L3:212:ASN:ND2	2.43	0.52
41:L4:211:GLU:OE2	41:L4:213:ASN:ND2	2.42	0.52
42:L5:58:LYS:N	42:L5:58:LYS:HD3	2.24	0.52
44:L7:111:ILE:O	44:L7:112:ASN:HB2	2.09	0.52
49:M3:170:LEU:HB3	72:O6:9:ILE:HD11	1.91	0.52
61:N5:67:ILE:HD12	61:N5:83:VAL:HG12	1.92	0.52
1:6:393:C:OP2	10:s8:2:GLY:N	2.43	0.52
1:6:512:A:H2'	1:6:513:U:H6	1.74	0.52
1:6:832:U:OP2	86:6:2201:OHX:N6	2.43	0.52
1:6:909:U:H2'	1:6:910:C:C6	2.44	0.52
1:6:1067:C:H2'	1:6:1068:C:C6	2.44	0.52
1:6:1557:U:OP2	1:6:1559:A:O2'	2.19	0.52
6:s4:95:THR:O	6:s4:97:GLU:N	2.43	0.52
14:c2:28:LEU:HD22	14:c2:32:LEU:HG	1.90	0.52
36:5:406:G:H1'	38:8:16:G:N2	2.24	0.52
36:5:736:A:C5	36:5:737:G:H1'	2.45	0.52
36:5:1131:G:C4	36:5:2373:A:C2	2.98	0.52
36:5:1578:C:H2'	36:5:1579:C:H6	1.74	0.52
36:5:3317:U:O2'	86:5:4140:OHX:N6	2.43	0.52
86:5:4090:OHX:N1	86:q1:102:OHX:N4	2.58	0.52
39:l2:188:LYS:HD3	39:l2:189:TYR:CZ	2.44	0.52
47:m0:210:ILE:HG13	47:m0:217:PHE:CD2	2.45	0.52
49:m3:105:ASN:CG	49:m3:108:ILE:HG12	2.35	0.52
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.92	0.52
53:m7:109:ALA:HA	53:m7:112:LEU:HD22	1.91	0.52
63:n7:99:GLU:HG3	63:n7:100:THR:N	2.25	0.52
70:o4:57:LEU:HB3	70:o4:61:GLN:HG3	1.92	0.52
1:2:57:G:OP1	26:D4:112:LYS:NZ	2.42	0.52
1:2:526:A:H2'	1:2:527:A:O4'	2.10	0.52
1:2:676:G:O6	1:2:677:G:N2	2.43	0.52
1:2:736:C:C2'	1:2:737:A:H5'	2.40	0.52
1:2:778:G:H22	26:D4:10:ARG:NH2	2.08	0.52
5:S3:74:GLN:HE22	5:S3:81:PRO:HA	1.75	0.52
7:S5:100:ASN:O	7:S5:102:ARG:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.74	0.52
25:D3:63:GLN:HG3	25:D3:64:PRO:HA	1.92	0.52
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.42	0.52
36:1:329:U:OP2	86:1:4041:OHX:N4	2.43	0.52
36:1:726:G:H1'	36:1:744:A:H61	1.75	0.52
36:1:729:C:H2'	36:1:730:C:H6	1.74	0.52
36:1:1069:C:H2'	36:1:1070:U:C6	2.44	0.52
36:1:1581:C:H2'	36:1:1582:C:H5'	1.91	0.52
36:1:2707:C:H2'	36:1:2708:C:H6	1.74	0.52
36:1:2748:A:H1'	42:L5:36:LEU:HD23	1.91	0.52
36:1:3119:U:OP2	86:1:3888:OHX:N4	2.42	0.52
36:1:3278:C:H2'	36:1:3278:C:O2	2.08	0.52
56:N0:155:ARG:HG2	56:N0:155:ARG:NH2	2.21	0.52
1:6:246:G:N2	13:c1:40:LEU:HD22	2.25	0.52
1:6:383:G:N7	86:6:2148:OHX:N5	2.58	0.52
1:6:542:A:N7	1:6:543:C:H2'	2.25	0.52
1:6:936:G:N7	28:d6:15:ARG:NH1	2.56	0.52
6:s4:213:SER:O	6:s4:214:LEU:HD12	2.10	0.52
6:s4:234:PRO:HG3	6:s4:238:LEU:HD11	1.91	0.52
10:s8:76:THR:HG22	10:s8:105:ASP:HB3	1.91	0.52
36:5:420:G:OP2	36:5:420:G:O5'	2.28	0.52
36:5:1307:G:OP1	52:m6:59:ARG:HD3	2.10	0.52
36:5:1815:U:O2'	36:5:1816:A:OP2	2.25	0.52
36:5:2967:A:H5''	39:l2:213:GLY:CA	2.40	0.52
38:8:113:U:H5''	75:o9:7:PHE:HB3	1.92	0.52
39:l2:19:HIS:CD2	39:l2:193:ARG:HA	2.45	0.52
51:m5:68:ARG:HA	51:m5:98:LEU:HD21	1.92	0.52
57:n1:17:ARG:HH11	57:n1:17:ARG:CB	2.23	0.52
72:o6:74:LYS:HA	72:o6:83:ALA:HB2	1.90	0.52
1:2:1389:C:O2'	19:C7:52:GLY:HA3	2.09	0.52
1:2:1417:A:OP1	86:2:2072:OHX:N5	2.43	0.52
8:S6:32:ILE:HG23	8:S6:53:SER:HA	1.91	0.52
36:1:1484:U:O5'	36:1:1484:U:H6	1.92	0.52
36:1:2635:A:H4'	36:1:2636:A:O5'	2.10	0.52
36:1:3215:A:H5'	50:M4:121:MET:HE1	1.91	0.52
86:1:4030:OHX:N4	86:1:4043:OHX:N1	2.58	0.52
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.92	0.52
43:L6:136:GLU:O	43:L6:139:LYS:N	2.39	0.52
74:O8:44:LYS:HG2	74:O8:53:THR:HB	1.92	0.52
1:6:828:U:N3	1:6:829:A:N7	2.58	0.52
1:6:829:A:H4'	1:6:829:A:OP1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1003:A:H4'	1:6:1004:U:O5'	2.10	0.52
3:s1:119:THR:HB	3:s1:143:THR:CG2	2.40	0.52
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.92	0.52
6:s4:151:ASP:HB3	6:s4:154:ILE:HG13	1.92	0.52
16:c4:107:ARG:NH2	16:c4:107:ARG:HB2	2.25	0.52
36:5:96:G:H5'	49:m3:15:ARG:CZ	2.40	0.52
36:5:150:A:C2'	36:5:151:A:H5'	2.38	0.52
36:5:419:G:N7	86:8:217:OHX:N3	2.58	0.52
36:5:1298:C:O3'	76:q0:113:ARG:NH1	2.43	0.52
36:5:3166:C:H42	36:5:3284:G:H1	1.57	0.52
36:5:3241:G:H2'	36:5:3245:A:H8	1.73	0.52
40:l3:77:THR:CG2	40:l3:327:CYS:HA	2.40	0.52
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.43	0.51
1:2:749:U:H3	1:2:800:U:H3	1.58	0.51
1:2:1064:G:O6	86:2:2163:OHX:N6	2.43	0.51
1:2:1393:C:H2'	1:2:1394:G:O4'	2.10	0.51
1:2:1514:U:H5''	1:2:1515:A:O4'	2.10	0.51
1:2:1795:U:OP1	28:D6:86:VAL:HG23	2.10	0.51
2:S0:76:ILE:HB	2:S0:123:VAL:HG23	1.91	0.51
3:S1:69:CYS:O	3:S1:72:ASP:HB2	2.10	0.51
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.93	0.51
4:S2:178:ILE:HD12	4:S2:189:GLN:HG3	1.92	0.51
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.11	0.51
11:S9:99:LEU:HD12	11:S9:100:LYS:H	1.75	0.51
17:C5:67:ALA:O	17:C5:69:GLU:N	2.43	0.51
24:D2:82:LYS:O	24:D2:84:GLY:N	2.38	0.51
34:SR:269:TYR:CG	34:SR:270:LEU:N	2.75	0.51
34:SR:309:VAL:HB	34:SR:311:ARG:NH1	2.25	0.51
36:1:1819:U:O4	86:1:4039:OHX:N6	2.43	0.51
38:4:104:A:C8	38:4:105:A:C8	2.98	0.51
51:M5:143:ARG:HE	71:O5:92:LEU:HD23	1.74	0.51
1:6:333:A:C6	1:6:334:G:C6	2.98	0.51
1:6:1071:U:H2'	1:6:1072:C:C6	2.45	0.51
1:6:1345:A:O2'	1:6:1346:A:H5'	2.10	0.51
1:6:1696:G:O2'	1:6:1698:G:N7	2.32	0.51
7:s5:41:LYS:HG2	7:s5:69:PHE:CZ	2.44	0.51
11:s9:131:GLN:C	11:s9:132:ARG:HG2	2.34	0.51
21:c9:66:TYR:HB2	21:c9:124:ILE:HD13	1.92	0.51
36:5:1307:G:H5''	52:m6:60:LYS:HZ2	1.75	0.51
36:5:2213:A:H2'	36:5:2214:A:C8	2.45	0.51
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:184:LYS:C	51:m5:186:GLY:H	2.18	0.51
53:m7:29:THR:HG22	53:m7:87:SER:OG	2.10	0.51
58:n2:20:SER:O	58:n2:24:GLU:HG2	2.09	0.51
63:n7:8:GLY:HA2	63:n7:25:ILE:O	2.11	0.51
74:o8:32:ASN:OD1	74:o8:36:LYS:N	2.35	0.51
82:p0:10:GLU:O	82:p0:13:ALA:HB3	2.10	0.51
1:2:73:U:H1'	1:2:74:U:H5'	1.92	0.51
1:2:605:A:OP2	1:2:606:A:O2'	2.28	0.51
1:2:802:G:H21	24:D2:107:SER:HB3	1.74	0.51
1:2:823:G:O2'	1:2:824:G:OP1	2.28	0.51
1:2:836:U:H2'	1:2:837:G:H8	1.75	0.51
1:2:1175:U:H2'	1:2:1176:G:C8	2.45	0.51
1:2:1349:G:H1	1:2:1376:C:N4	2.05	0.51
1:2:1359:C:OP1	21:C9:130:ARG:NH1	2.43	0.51
1:2:1400:A:H4'	19:C7:60:ARG:HH22	1.75	0.51
7:S5:146:THR:HG23	7:S5:221:ALA:HA	1.92	0.51
9:S7:150:GLN:HB3	9:S7:181:ILE:HD12	1.91	0.51
16:C4:99:GLN:N	16:C4:99:GLN:OE1	2.42	0.51
24:D2:76:SER:HG	25:D3:7:ARG:HG2	1.74	0.51
28:D6:12:LYS:HB2	28:D6:33:ASP:OD2	2.10	0.51
36:1:1194:G:H2'	36:1:1195:A:C8	2.45	0.51
36:1:1440:G:O6	86:1:3922:OHX:N1	2.43	0.51
36:1:2335:G:N2	36:1:2339:C:O2'	2.43	0.51
36:1:3018:C:H2'	36:1:3019:U:O4'	2.10	0.51
36:1:3106:A:H2'	36:1:3107:U:O4'	2.10	0.51
40:L3:261:MET:HE2	52:M6:63:ALA:C	2.35	0.51
50:M4:31:LYS:HG2	50:M4:51:ALA:HB1	1.92	0.51
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.25	0.51
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.11	0.51
1:6:209:U:H2'	1:6:210:A:H8	1.75	0.51
1:6:829:A:H8	1:6:829:A:H5''	1.74	0.51
1:6:880:C:OP2	86:6:2108:OHX:N2	2.43	0.51
1:6:1232:U:O4	33:e1:97:LYS:NZ	2.42	0.51
3:s1:33:LYS:O	3:s1:98:THR:OG1	2.21	0.51
6:s4:107:GLY:HA2	6:s4:189:LEU:HG	1.92	0.51
8:s6:78:THR:HG22	8:s6:79:LYS:H	1.75	0.51
17:c5:126:VAL:HG22	17:c5:127:ARG:H	1.75	0.51
21:c9:70:GLN:HG3	21:c9:120:GLY:O	2.10	0.51
36:5:215:G:OP1	62:n6:12:ARG:HG2	2.10	0.51
36:5:687:U:H2'	36:5:688:G:C8	2.45	0.51
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1456:A:N7	67:o1:26:LYS:NZ	2.58	0.51
36:5:2653:C:OP1	78:q2:89:LYS:HB2	2.09	0.51
36:5:3283:U:H2'	36:5:3284:G:C8	2.45	0.51
86:7:217:OHX:N1	86:7:225:OHX:N5	2.58	0.51
39:12:48:ILE:HD12	79:q3:65:ALA:HB2	1.91	0.51
44:l7:191:VAL:HG12	44:l7:192:GLY:H	1.74	0.51
55:m9:5:ARG:HH11	55:m9:5:ARG:HG3	1.76	0.51
55:m9:110:ARG:C	55:m9:112:ALA:H	2.18	0.51
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.74	0.51
64:n8:147:LEU:HD12	72:o6:7:ILE:HD11	1.92	0.51
66:o0:13:LYS:HB3	66:o0:100:ILE:HG22	1.92	0.51
71:o5:83:LYS:O	71:o5:89:ARG:NE	2.43	0.51
1:2:1226:A:O2'	1:2:1227:A:OP1	2.26	0.51
4:S2:90:THR:N	4:S2:93:GLY:O	2.41	0.51
9:S7:98:ILE:HG13	9:S7:121:VAL:HG21	1.92	0.51
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.91	0.51
16:C4:117:ASP:OD1	16:C4:119:THR:OG1	2.26	0.51
19:C7:33:ARG:NH2	34:SR:109:ASP:OD1	2.43	0.51
21:C9:26:GLY:O	21:C9:28:LEU:HG	2.09	0.51
22:D0:42:VAL:HG23	22:D0:91:ILE:HD13	1.92	0.51
86:1:4001:OHX:N3	86:1:4171:OHX:N3	2.58	0.51
40:L3:81:THR:OG1	40:L3:321:PHE:HA	2.09	0.51
42:L5:166:ALA:HB1	42:L5:171:LEU:HD12	1.91	0.51
45:L8:94:PHE:HB3	45:L8:189:LEU:CD1	2.41	0.51
45:L8:211:LEU:HD12	45:L8:215:VAL:HG23	1.91	0.51
54:M8:16:ARG:NH1	54:M8:55:SER:HB3	2.24	0.51
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.18	0.51
1:6:189:C:O2'	1:6:190:C:H5'	2.10	0.51
1:6:207:U:O2	10:s8:178:ARG:NH1	2.40	0.51
1:6:874:C:OP1	86:s1:302:OHX:N1	2.44	0.51
1:6:1688:U:H2'	1:6:1689:A:C8	2.45	0.51
1:6:1769:U:O2	16:c4:136:ARG:NH1	2.38	0.51
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.35	0.51
14:c2:44:GLY:O	14:c2:46:ARG:N	2.43	0.51
18:c6:83:GLN:HG3	18:c6:115:THR:HG22	1.91	0.51
20:c8:52:VAL:HG13	20:c8:61:LEU:HD21	1.92	0.51
33:e1:84:VAL:HG23	33:e1:85:TYR:HD1	1.76	0.51
36:5:8:C:H2'	36:5:9:U:O4'	2.10	0.51
36:5:1103:A:H3'	36:5:1104:G:H5'	1.93	0.51
36:5:1564:U:H2'	36:5:1565:G:H8	1.75	0.51
36:5:2915:U:H5	40:l3:7:GLU:HG2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:300:ARG:HG2	41:l4:300:ARG:NH1	2.17	0.51
41:l4:333:VAL:O	41:l4:337:GLU:HG3	2.10	0.51
68:o2:35:GLN:HB3	68:o2:43:ARG:HB2	1.92	0.51
78:q2:2:VAL:HG23	78:q2:91:PHE:HD1	1.76	0.51
1:2:454:U:H3'	1:2:455:C:C6	2.45	0.51
1:2:928:U:H4'	16:C4:124:ASP:OD1	2.11	0.51
1:2:966:A:H5''	15:C3:4:MET:HE2	1.92	0.51
2:S0:21:ASN:HB3	2:S0:24:LEU:HD13	1.92	0.51
3:S1:119:THR:HB	3:S1:143:THR:CG2	2.41	0.51
9:S7:59:ALA:HA	9:S7:91:ILE:HG22	1.92	0.51
9:S7:141:ARG:NH1	9:S7:143:LEU:HD21	2.26	0.51
11:S9:114:TYR:HE1	11:S9:121:SER:N	2.07	0.51
17:C5:14:THR:OG1	17:C5:15:HIS:O	2.24	0.51
17:C5:16:SER:HA	17:C5:20:VAL:O	2.10	0.51
20:C8:120:ARG:HD2	35:SM:61:ILE:HD11	1.92	0.51
35:SM:97:THR:HG22	35:SM:99:LYS:HG2	1.92	0.51
36:1:1094:U:O2	36:1:1096:U:O2'	2.25	0.51
36:1:1350:A:O2'	36:1:1351:U:H5'	2.10	0.51
36:1:2943:G:OP2	40:L3:2:SER:HB2	2.10	0.51
42:L5:114:GLY:O	42:L5:116:ASP:N	2.39	0.51
42:L5:279:LYS:HE3	42:L5:282:ARG:HH12	1.75	0.51
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.43	0.51
51:M5:58:GLY:HA3	51:M5:142:ILE:HD13	1.92	0.51
55:M9:44:LEU:HD12	55:M9:49:THR:HB	1.93	0.51
66:O0:27:TYR:OH	66:O0:55:GLU:OE1	2.23	0.51
67:O1:5:LYS:O	67:O1:6:ASP:HB2	2.10	0.51
67:O1:78:LYS:HG2	67:O1:79:ARG:HH21	1.75	0.51
69:O3:90:PRO:O	69:O3:91:ALA:HB3	2.10	0.51
71:O5:85:THR:HB	71:O5:88:LEU:HB2	1.93	0.51
2:s0:28:ASN:O	2:s0:150:ASP:HB3	2.11	0.51
2:s0:31:VAL:HA	2:s0:34:GLU:OE2	2.11	0.51
4:s2:68:ILE:O	4:s2:72:LEU:HB2	2.10	0.51
6:s4:173:ILE:HD11	6:s4:235:TYR:CD1	2.46	0.51
13:c1:76:VAL:HG12	13:c1:85:VAL:O	2.09	0.51
15:c3:3:ARG:NE	15:c3:3:ARG:HA	2.25	0.51
19:c7:104:ASN:ND2	19:c7:105:GLN:OE1	2.43	0.51
23:d1:17:CYS:HB2	23:d1:56:SER:HB3	1.91	0.51
27:d5:43:ASP:C	27:d5:45:GLU:H	2.18	0.51
33:e1:119:ARG:O	33:e1:132:LEU:N	2.35	0.51
36:5:554:A:H8	36:5:554:A:OP2	1.93	0.51
36:5:996:A:H2'	36:5:997:A:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1560:G:H2'	36:5:1561:G:C8	2.44	0.51
40:l3:332:ARG:NH1	40:l3:333:LYS:HD2	2.25	0.51
43:l6:42:LEU:HD22	43:l6:79:VAL:HG21	1.91	0.51
44:l7:102:VAL:HG12	44:l7:130:ILE:HD12	1.93	0.51
81:m2:50:UNK:O	81:m2:52:UNK:N	2.43	0.51
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.24	0.51
68:o2:60:ASN:OD1	68:o2:62:LYS:HB2	2.11	0.51
1:2:1578:U:O2'	1:2:1579:U:H5'	2.10	0.51
1:2:1645:G:H22	1:2:1756:A:H2	1.58	0.51
2:S0:37:VAL:HG12	2:S0:38:PHE:H	1.75	0.51
6:S4:241:GLY:O	6:S4:243:GLY:N	2.43	0.51
7:S5:37:GLN:OE1	18:C6:53:LEU:HD22	2.10	0.51
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.09	0.51
34:SR:316:MET:HA	34:SR:316:MET:HE2	1.93	0.51
36:1:975:C:H2'	36:1:976:U:C6	2.45	0.51
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.44	0.51
36:1:2533:G:O6	36:1:2546:C:N4	2.40	0.51
36:1:3013:U:H2'	36:1:3014:U:C6	2.45	0.51
36:1:3192:U:H2'	36:1:3193:C:C6	2.46	0.51
41:L4:269:SER:O	41:L4:269:SER:OG	2.23	0.51
44:L7:64:GLN:HG3	44:L7:68:ASP:OD2	2.11	0.51
68:O2:105:ARG:O	68:O2:109:LEU:HB2	2.10	0.51
1:6:272:U:O2'	1:6:273:G:OP2	2.25	0.51
1:6:768:C:H2'	1:6:769:A:O4'	2.10	0.51
1:6:793:A:H3'	1:6:794:U:H5'	1.90	0.51
1:6:1227:A:N1	14:c2:43:ARG:NH1	2.59	0.51
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.92	0.51
36:5:1208:U:H6	36:5:3115:C:H42	1.59	0.51
36:5:2931:C:OP1	59:n3:59:MET:HE2	2.11	0.51
36:5:3186:A:C2	46:l9:44:THR:HG22	2.46	0.51
86:5:3979:OHX:N2	86:5:4199:OHX:N5	2.59	0.51
39:l2:80:GLU:HG2	79:q3:76:ALA:HB1	1.93	0.51
41:l4:152:VAL:HG22	41:l4:172:VAL:HG21	1.91	0.51
49:m3:98:ASP:OD1	49:m3:100:ARG:HG2	2.10	0.51
67:o1:24:SER:HB2	67:o1:27:LYS:HD2	1.92	0.51
70:o4:8:ARG:HB2	70:o4:34:HIS:CD2	2.46	0.51
1:2:147:A:H2'	1:2:148:A:O4'	2.10	0.51
1:2:355:G:OP2	86:2:2037:OHX:N4	2.44	0.51
1:2:1613:U:H2'	1:2:1614:A:H5''	1.92	0.51
4:S2:54:GLU:OE2	4:S2:110:HIS:NE2	2.43	0.51
14:C2:32:LEU:O	14:C2:36:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:7:ILE:HD13	26:D4:40:LEU:HD13	1.93	0.51
34:SR:42:LEU:HB2	34:SR:61:PHE:HB2	1.92	0.51
36:1:3:U:C2	38:4:157:U:C2	2.98	0.51
36:1:2554:A:N6	79:Q3:62:LYS:HE3	2.24	0.51
45:L8:91:PHE:CE1	45:L8:185:ARG:HD2	2.45	0.51
49:M3:46:ILE:CG2	49:M3:49:ARG:HB2	2.41	0.51
49:M3:61:PRO:C	49:M3:62:THR:HG23	2.35	0.51
52:M6:192:LYS:O	52:M6:195:ALA:HB3	2.09	0.51
57:N1:56:PHE:CE1	57:N1:78:LYS:HD3	2.44	0.51
59:N3:66:LYS:HB2	59:N3:69:LEU:HD22	1.91	0.51
61:N5:75:LYS:HD2	61:N5:123:TYR:CE1	2.45	0.51
61:N5:91:ASN:OD1	61:N5:94:GLN:HG3	2.11	0.51
1:6:328:A:H2'	1:6:329:G:O4'	2.10	0.51
1:6:1795:U:OP1	28:d6:86:VAL:HG12	2.10	0.51
3:s1:116:LYS:HB3	3:s1:117:TRP:CD1	2.44	0.51
17:c5:86:VAL:H	17:c5:89:MET:HE3	1.76	0.51
25:d3:14:LYS:HA	25:d3:17:VAL:HG12	1.91	0.51
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	1.93	0.51
29:d7:37:CYS:O	29:d7:39:GLY:N	2.33	0.51
34:sR:36:ALA:HB1	34:sR:68:VAL:HB	1.93	0.51
36:5:30:G:P	51:m5:172:ARG:HH11	2.33	0.51
36:5:873:C:H5''	36:5:874:U:O5'	2.10	0.51
36:5:1536:G:N7	86:5:3923:OHX:N2	2.58	0.51
36:5:1581:C:OP2	36:5:1581:C:H4'	2.10	0.51
36:5:2179:C:O3'	39:l2:174:ARG:NH2	2.43	0.51
36:5:3110:C:H2'	36:5:3111:U:C6	2.46	0.51
40:l3:169:THR:CG2	40:l3:171:LEU:H	2.21	0.51
47:m0:38:LYS:HG2	47:m0:41:ALA:HB2	1.93	0.51
49:m3:75:PHE:H	49:m3:97:VAL:HA	1.75	0.51
49:m3:100:ARG:O	49:m3:101:ARG:HB3	2.11	0.51
54:m8:170:ARG:HA	54:m8:174:ARG:HD2	1.91	0.51
61:n5:57:LEU:HD22	61:n5:62:VAL:HG22	1.92	0.51
72:o6:66:GLU:OE1	72:o6:70:ARG:NH2	2.44	0.51
1:2:217:A:OP1	1:2:217:A:H2'	2.11	0.51
1:2:463:U:H2'	1:2:464:A:C8	2.46	0.51
1:2:885:G:H21	16:C4:123:SER:HB2	1.75	0.51
3:S1:157:GLN:H	3:S1:160:HIS:HB2	1.75	0.51
4:S2:121:VAL:N	35:SM:120:GLU:OE2	2.40	0.51
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.45	0.51
9:S7:86:GLN:HG2	9:S7:87:ASP:H	1.76	0.51
9:S7:147:ASN:OD1	9:S7:147:ASN:N	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:116:HIS:O	10:S8:146:ARG:NH1	2.42	0.51
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.91	0.51
36:1:437:G:H2'	36:1:438:A:C8	2.46	0.51
36:1:539:C:H2'	36:1:540:U:C6	2.46	0.51
36:1:790:U:H4'	41:L4:112:LYS:O	2.10	0.51
36:1:939:U:H6	36:1:939:U:H5'	1.76	0.51
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.92	0.51
36:1:1826:C:H2'	36:1:1827:C:H6	1.75	0.51
36:1:2273:G:O2'	36:1:2274:U:OP2	2.28	0.51
38:4:121:U:H2'	38:4:122:U:C6	2.46	0.51
39:L2:83:HIS:CD2	79:Q3:41:PHE:HZ	2.28	0.51
40:L3:347:SER:HB3	40:L3:350:ALA:H	1.76	0.51
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.92	0.51
51:M5:187:ARG:HG2	51:M5:188:ARG:N	2.23	0.51
58:N2:50:LEU:HB3	58:N2:54:VAL:HG22	1.91	0.51
68:O2:126:LEU:O	68:O2:128:LEU:N	2.44	0.51
78:Q2:99:GLN:OE1	78:Q2:102:GLN:NE2	2.44	0.51
1:6:825:U:O2'	1:6:826:U:P	2.69	0.51
1:6:938:G:N2	1:6:941:A:OP2	2.41	0.51
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.92	0.51
3:s1:77:GLU:O	3:s1:80:SER:OG	2.28	0.51
6:s4:62:LYS:NZ	6:s4:66:MET:HE3	2.25	0.51
12:c0:54:TYR:CD2	12:c0:72:GLY:HA2	2.45	0.51
21:c9:39:THR:O	21:c9:96:ALA:HB1	2.11	0.51
24:d2:37:PHE:CD1	24:d2:41:MET:HE2	2.46	0.51
36:5:2255:A:OP2	36:5:2261:G:N2	2.34	0.51
39:l2:201:GLY:O	39:l2:204:MET:HB2	2.10	0.51
40:l3:83:PRO:HG3	40:l3:204:ALA:HB2	1.93	0.51
42:l5:122:VAL:HG23	42:l5:123:GLU:N	2.25	0.51
61:n5:135:ILE:O	61:n5:139:ILE:HG13	2.11	0.51
64:n8:122:PRO:HB3	64:n8:142:GLY:O	2.11	0.51
65:n9:14:ARG:NH1	65:n9:18:ARG:HH11	2.02	0.51
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.93	0.51
1:2:66:U:H5'	8:S6:173:PRO:HA	1.93	0.51
1:2:592:A:OP1	11:S9:39:LYS:HG3	2.10	0.51
1:2:1280:C:H2'	1:2:1281:G:H8	1.76	0.51
1:2:1367:G:N7	86:2:2110:OHX:N6	2.59	0.51
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.93	0.51
10:S8:80:GLY:HA2	10:S8:102:VAL:HB	1.93	0.51
17:C5:30:THR:O	17:C5:34:VAL:HG13	2.11	0.51
36:1:917:A:OP2	86:1:4143:OHX:N2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1063:G:C6	57:N1:109:VAL:HG22	2.45	0.51
36:1:2157:G:O6	39:L2:152:SER:HB3	2.10	0.51
86:1:4001:OHX:N6	86:1:4171:OHX:N5	2.58	0.51
37:3:3:U:H2'	37:3:4:U:H6	1.74	0.51
38:4:125:U:O2'	38:4:126:A:OP2	2.28	0.51
40:L3:194:TRP:CE2	40:L3:198:HIS:CE1	2.98	0.51
42:L5:294:ALA:C	42:L5:296:GLN:H	2.19	0.51
45:L8:121:SER:O	45:L8:123:GLN:N	2.44	0.51
51:M5:187:ARG:HA	51:M5:190:THR:HG23	1.91	0.51
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.22	0.51
71:O5:44:ILE:O	71:O5:47:VAL:HG12	2.10	0.51
1:6:542:A:N1	80:e0:28:LYS:HD3	2.25	0.51
2:s0:131:GLN:HE22	2:s0:135:GLU:HG3	1.76	0.51
23:d1:1:MET:HB3	23:d1:10:GLU:HB3	1.92	0.51
25:d3:53:VAL:HG13	25:d3:72:VAL:HB	1.93	0.51
36:5:77:A:N7	49:m3:73:ARG:NH2	2.58	0.51
36:5:1953:G:O6	36:5:2094:C:N4	2.43	0.51
36:5:2254:U:H2'	36:5:2261:G:N2	2.26	0.51
36:5:2341:A:OP1	40:l3:247:ARG:NH2	2.44	0.51
36:5:2510:U:O2'	36:5:2511:A:H5''	2.11	0.51
36:5:2818:U:H5'	36:5:2818:U:C6	2.40	0.51
36:5:3022:G:O2'	36:5:3031:G:O6	2.28	0.51
38:8:83:C:H4'	38:8:85:G:N3	2.25	0.51
47:m0:218:ALA:O	86:m0:301:OHX:N3	2.43	0.51
59:n3:120:LYS:H	59:n3:137:VAL:CG2	2.23	0.51
65:n9:18:ARG:O	86:n9:101:OHX:N4	2.43	0.51
1:2:641:G:H1	1:2:693:U:H3	1.59	0.51
1:2:852:C:OP1	55:M9:172:ARG:HD3	2.11	0.51
1:2:1250:U:O2'	1:2:1251:U:OP1	2.27	0.51
1:2:1615:C:P	7:S5:81:ARG:HH21	2.34	0.51
27:D5:93:SER:OG	27:D5:94:LYS:N	2.42	0.51
34:SR:169:ILE:HD13	34:SR:183:LEU:HD11	1.92	0.51
36:1:412:G:C6	36:1:413:U:C4	2.99	0.51
36:1:1844:C:C2'	36:1:1845:G:H5''	2.40	0.51
36:1:2156:C:OP2	39:L2:241:ARG:NH2	2.44	0.51
36:1:2954:U:O5'	36:1:2954:U:H6	1.93	0.51
36:1:3000:A:H2'	36:1:3001:C:C6	2.45	0.51
42:L5:60:ILE:HB	42:L5:80:SER:HB3	1.91	0.51
44:L7:25:GLN:HA	44:L7:28:ALA:HB3	1.92	0.51
46:L9:23:ARG:NH2	46:L9:39:LYS:O	2.44	0.51
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.45	0.51
1:6:620:A:C2	1:6:621:A:C2	2.99	0.51
1:6:765:G:N1	11:s9:146:PHE:HZ	2.08	0.51
1:6:1473:U:H3	7:s5:180:ARG:HG3	1.76	0.51
3:s1:121:ILE:HD13	3:s1:161:ILE:HG23	1.93	0.51
8:s6:14:LYS:HG2	8:s6:16:PHE:CE2	2.45	0.51
22:d0:50:LEU:HD22	22:d0:95:ALA:HB2	1.93	0.51
24:d2:41:MET:HG2	24:d2:129:VAL:HG11	1.92	0.51
26:d4:44:LEU:HA	26:d4:47:VAL:HG13	1.93	0.51
36:5:837:A:OP2	79:q3:4:ARG:HD2	2.11	0.51
36:5:942:U:C4	64:n8:16:SER:HA	2.46	0.51
36:5:1063:G:OP2	36:5:1097:G:H5''	2.11	0.51
36:5:1716:U:H5'	36:5:1716:U:C6	2.41	0.51
36:5:2911:A:H4'	36:5:2912:G:C8	2.46	0.51
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.43	0.51
39:l2:171:GLY:O	79:q3:68:ALA:HB2	2.11	0.51
42:l5:90:HIS:NE2	42:l5:229:ASP:OD2	2.44	0.51
43:l6:56:LYS:NZ	43:l6:101:PHE:O	2.39	0.51
45:l8:160:ILE:HD12	45:l8:164:VAL:HG13	1.93	0.51
46:l9:91:ARG:HG2	46:l9:182:SER:HB3	1.93	0.51
63:n7:21:LYS:NZ	63:n7:47:GLU:O	2.41	0.51
1:2:161:U:H2'	1:2:162:A:H8	1.75	0.51
1:2:481:A:H61	1:2:505:A:H62	1.59	0.51
1:2:533:U:H4'	26:D4:33:ALA:HB2	1.93	0.51
1:2:549:G:H1	1:2:589:C:H42	1.58	0.51
1:2:1257:U:H2'	12:C0:2:LEU:HD12	1.93	0.51
1:2:1622:G:H2'	1:2:1623:C:C6	2.45	0.51
1:2:1761:U:O2'	1:2:1762:A:OP2	2.25	0.51
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.11	0.51
7:S5:91:GLU:HA	7:S5:94:THR:HG23	1.93	0.51
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	1.93	0.51
8:S6:141:ILE:HD13	8:S6:153:VAL:HG11	1.93	0.51
11:S9:105:LEU:O	11:S9:108:ARG:HG3	2.11	0.51
13:C1:75:VAL:CG1	13:C1:119:VAL:HA	2.40	0.51
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.93	0.51
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	1.93	0.51
36:1:975:C:H2'	36:1:976:U:H6	1.76	0.51
36:1:1245:A:H3'	36:1:1246:G:H5''	1.93	0.51
36:1:1407:A:O3'	68:O2:33:ARG:NH2	2.44	0.51
36:1:2284:C:H5''	36:1:2285:C:OP2	2.11	0.51
39:L2:54:ARG:HG2	39:L2:55:GLY:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:306:THR:HG22	40:L3:310:GLY:HA2	1.91	0.51
40:L3:358:TRP:CH2	40:L3:360:ASP:HB2	2.46	0.51
41:L4:295:ILE:HG23	41:L4:299:ILE:HD11	1.92	0.51
45:L8:108:ARG:O	45:L8:111:LYS:HB2	2.11	0.51
52:M6:77:SER:HB2	52:M6:104:VAL:HG12	1.93	0.51
52:M6:85:ARG:HD3	52:M6:90:HIS:CG	2.46	0.51
55:M9:168:ALA:HB1	55:M9:172:ARG:NH1	2.26	0.51
57:N1:111:ALA:O	57:N1:115:LYS:HG2	2.11	0.51
61:N5:25:LYS:H	61:N5:25:LYS:HD2	1.76	0.51
66:O0:45:ALA:O	66:O0:48:THR:HG22	2.10	0.51
68:O2:26:HIS:O	68:O2:28:VAL:N	2.44	0.51
68:O2:83:GLU:OE2	68:O2:111:ARG:NE	2.43	0.51
1:6:1305:U:OP2	1:6:1306:C:N4	2.27	0.51
8:s6:12:SER:HB3	8:s6:124:LEU:HD12	1.93	0.51
28:d6:45:VAL:HG11	28:d6:53:LEU:HG	1.94	0.51
36:5:247:C:C2	36:5:248:U:H1'	2.46	0.51
36:5:978:G:N2	36:5:1104:G:C5	2.79	0.51
37:7:106:U:H2'	37:7:107:C:C6	2.46	0.51
40:l3:298:PHE:CE1	40:l3:357:LYS:HE2	2.46	0.51
40:l3:325:LYS:HG2	40:l3:326:GLY:N	2.25	0.51
1:2:1067:C:H5''	3:S1:150:VAL:HG23	1.92	0.50
1:2:1492:A:N3	1:2:1493:A:C8	2.79	0.50
12:C0:12:HIS:NE2	12:C0:49:LEU:HD21	2.25	0.50
17:C5:77:ARG:NH1	36:1:1025:A:O4'	2.44	0.50
19:C7:34:LEU:HD23	19:C7:38:ILE:HG21	1.93	0.50
24:D2:77:PRO:HG2	24:D2:79:PHE:CZ	2.45	0.50
34:SR:21:THR:O	34:SR:36:ALA:HB3	2.11	0.50
36:1:979:U:O2'	36:1:980:A:N7	2.25	0.50
36:1:2505:U:H2'	36:1:2506:U:C6	2.47	0.50
36:1:2544:U:H2'	36:1:2545:C:C6	2.47	0.50
36:1:2777:G:H5''	36:1:2778:G:OP1	2.11	0.50
36:1:3242:G:N2	36:1:3245:A:H5''	2.26	0.50
37:3:28:C:N4	37:3:29:C:N3	2.59	0.50
38:4:10:A:H2'	38:4:11:C:C6	2.46	0.50
38:4:67:U:H5''	73:O7:84:SER:O	2.10	0.50
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.11	0.50
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.10	0.50
1:6:339:C:H2'	1:6:340:U:C6	2.47	0.50
1:6:755:A:O2'	1:6:756:A:H8	1.92	0.50
1:6:794:U:H4'	1:6:795:U:OP2	2.10	0.50
1:6:1004:U:H4'	1:6:1005:A:OP2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:171:ARG:HE	11:s9:174:ARG:HB2	1.76	0.50
13:c1:8:GLN:NE2	13:c1:14:GLN:H	2.09	0.50
26:d4:122:GLY:C	26:d4:124:ARG:N	2.68	0.50
34:sR:207:ASP:OD1	34:sR:209:THR:OG1	2.28	0.50
36:5:604:G:N7	86:5:4168:OHX:N2	2.59	0.50
36:5:928:C:H2'	36:5:929:A:C8	2.46	0.50
36:5:985:U:H2'	36:5:986:U:H6	1.76	0.50
36:5:1015:U:O2'	36:5:1017:C:OP1	2.29	0.50
36:5:1294:A:H5''	56:n0:85:SER:OG	2.11	0.50
36:5:2211:U:C5	36:5:2234:G:O6	2.63	0.50
36:5:2775:U:H2'	36:5:2776:C:H6	1.76	0.50
86:5:4055:OHX:N5	86:5:4200:OHX:N6	2.59	0.50
39:l2:122:ASP:C	39:l2:123:ARG:HG3	2.36	0.50
40:l3:138:ALA:O	40:l3:140:ASP:N	2.42	0.50
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.26	0.50
47:m0:49:CYS:HB2	47:m0:172:GLY:HA2	1.92	0.50
47:m0:187:ALA:HB3	47:m0:189:GLU:HG3	1.94	0.50
48:m1:15:GLU:HB3	48:m1:130:VAL:HG22	1.91	0.50
50:m4:113:THR:CG2	50:m4:116:GLU:HB2	2.41	0.50
64:n8:104:THR:HG21	64:n8:112:ILE:HD11	1.93	0.50
71:o5:73:LYS:N	71:o5:73:LYS:HD2	2.26	0.50
1:2:164:A:N3	8:S6:13:GLN:NE2	2.54	0.50
1:2:387:A:H5''	1:2:389:G:OP2	2.11	0.50
3:S1:34:ALA:N	3:S1:41:ARG:O	2.35	0.50
7:S5:43:PHE:HA	7:S5:68:ILE:O	2.11	0.50
8:S6:57:ASP:HA	8:S6:107:ALA:H	1.77	0.50
9:S7:75:THR:OG1	9:S7:76:LYS:N	2.43	0.50
15:C3:62:GLN:HB2	15:C3:65:VAL:HG23	1.93	0.50
21:C9:66:TYR:HD1	21:C9:67:MET:HE2	1.76	0.50
34:SR:69:GLN:N	34:SR:83:ALA:O	2.41	0.50
36:1:191:U:H2'	36:1:192:C:H6	1.76	0.50
36:1:1174:G:N2	52:M6:87:MET:HE2	2.27	0.50
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.11	0.50
40:L3:143:GLY:O	40:L3:147:GLU:HG2	2.09	0.50
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.92	0.50
68:O2:94:ALA:O	68:O2:120:THR:HG23	2.11	0.50
70:O4:85:VAL:O	70:O4:89:ILE:HG13	2.11	0.50
1:6:291:G:H2'	1:6:292:U:C6	2.46	0.50
1:6:1220:C:H5'	12:c0:52:LYS:HE2	1.92	0.50
1:6:1491:U:OP1	1:6:1492:A:H5''	2.11	0.50
6:s4:31:PRO:HB2	6:s4:38:LEU:HD22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:31:SER:HA	9:s7:35:LYS:HB2	1.92	0.50
9:s7:168:SER:O	9:s7:172:VAL:HG23	2.11	0.50
11:s9:121:SER:HB3	11:s9:124:HIS:HB3	1.92	0.50
20:c8:45:LEU:HD11	21:c9:36:ILE:HG22	1.93	0.50
33:e1:96:LYS:HG3	33:e1:97:LYS:N	2.26	0.50
36:5:32:U:H6	36:5:32:U:O5'	1.94	0.50
36:5:579:G:O2'	36:5:580:C:H5'	2.10	0.50
36:5:1556:C:O5'	36:5:2169:G:N2	2.45	0.50
36:5:3279:A:C2'	36:5:3280:U:H5'	2.42	0.50
41:l4:131:VAL:O	41:l4:135:VAL:HG23	2.10	0.50
42:l5:40:HIS:CE1	57:n1:69:LYS:HA	2.47	0.50
43:l6:35:VAL:O	43:l6:38:THR:OG1	2.16	0.50
45:l8:159:PRO:HG3	51:m5:43:THR:O	2.12	0.50
50:m4:32:LEU:HD11	50:m4:94:TRP:CG	2.46	0.50
51:m5:104:GLU:O	51:m5:108:ARG:HG3	2.11	0.50
53:m7:30:ARG:HA	53:m7:119:VAL:CG1	2.38	0.50
55:m9:98:ARG:HD3	55:m9:133:LYS:O	2.11	0.50
1:2:545:A:H4'	1:2:546:U:OP1	2.11	0.50
1:2:701:U:H3	1:2:737:A:N6	2.00	0.50
1:2:1792:G:O5'	28:D6:3:LYS:HA	2.12	0.50
1:2:1796:C:C5	28:D6:6:ALA:N	2.80	0.50
2:S0:180:GLU:O	2:S0:184:LEU:HD23	2.11	0.50
8:S6:27:PHE:C	8:S6:30:LYS:HG2	2.36	0.50
12:C0:15:LEU:HD22	12:C0:46:LEU:HD11	1.92	0.50
17:C5:65:LEU:O	86:C5:201:OHX:N1	2.45	0.50
34:SR:7:LEU:HD23	34:SR:315:VAL:HG22	1.93	0.50
35:SM:88:ARG:HD2	35:SM:89:ARG:HA	1.94	0.50
36:1:853:G:N7	79:Q3:2:ALA:HB2	2.26	0.50
36:1:1547:G:P	51:M5:105:ARG:HH11	2.34	0.50
36:1:1587:A:OP1	86:4:225:OHX:N6	2.44	0.50
36:1:1591:G:H5''	70:O4:37:LYS:HZ2	1.76	0.50
36:1:2105:G:O2'	36:1:2106:A:H5'	2.12	0.50
40:L3:122:TRP:CH2	40:L3:127:LYS:HD2	2.46	0.50
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.45	0.50
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.92	0.50
42:L5:279:LYS:HG2	42:L5:282:ARG:HH12	1.76	0.50
51:M5:175:ASN:O	51:M5:184:LYS:HB2	2.11	0.50
55:M9:156:ASN:OD1	55:M9:156:ASN:N	2.43	0.50
56:N0:7:TYR:CD1	56:N0:61:ILE:HD11	2.46	0.50
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.94	0.50
1:6:242:U:OP1	8:s6:216:LEU:HD21	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1098:U:H5''	1:6:1098:U:C6	2.47	0.50
1:6:1255:G:H4'	1:6:1256:A:OP1	2.11	0.50
6:s4:125:LYS:O	6:s4:141:THR:HA	2.10	0.50
11:s9:171:ARG:NH1	11:s9:174:ARG:HD3	2.25	0.50
14:c2:40:GLY:O	14:c2:124:LYS:HD3	2.11	0.50
34:sR:25:THR:OG1	34:sR:26:SER:N	2.44	0.50
34:sR:296:ALA:C	34:sR:298:GLY:H	2.19	0.50
36:5:900:G:H1'	36:5:1589:A:H61	1.76	0.50
36:5:1233:G:H5'	82:p0:36:GLN:OE1	2.11	0.50
36:5:2242:A:H5'	39:l2:243:THR:HG23	1.93	0.50
45:l8:141:ALA:HA	45:l8:144:GLU:OE2	2.12	0.50
63:n7:3:LYS:CE	63:n7:5:LEU:HD21	2.38	0.50
78:q2:65:THR:OG1	78:q2:87:ARG:HD3	2.11	0.50
1:2:579:A:H8	5:S3:178:ARG:HD2	1.71	0.50
1:2:1182:U:O2	1:2:1182:U:H2'	2.11	0.50
1:2:1301:U:H2'	1:2:1302:U:O4'	2.11	0.50
1:2:1410:A:H5''	18:C6:118:ILE:CD1	2.40	0.50
1:2:1437:U:H5'	5:S3:176:LEU:HD23	1.92	0.50
1:2:1657:U:C4	86:2:2090:OHX:N4	2.79	0.50
1:2:1657:U:C5	86:2:2090:OHX:N2	2.80	0.50
3:S1:30:PHE:HD1	3:S1:96:LEU:HD22	1.77	0.50
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.47	0.50
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.47	0.50
7:S5:56:ALA:O	7:S5:57:SER:OG	2.26	0.50
22:D0:45:ALA:HB1	22:D0:50:LEU:HD22	1.93	0.50
27:D5:71:ILE:HG22	27:D5:75:LEU:HD12	1.92	0.50
28:D6:6:ALA:C	28:D6:8:ASN:H	2.19	0.50
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.77	0.50
36:1:239:G:HO2'	36:1:240:U:P	2.34	0.50
36:1:735:A:H2'	36:1:736:A:C8	2.46	0.50
36:1:1556:C:O2	36:1:2169:G:C2	2.65	0.50
36:1:2153:U:OP1	39:L2:246:LEU:HB2	2.10	0.50
36:1:2278:C:C2'	36:1:2279:A:H5''	2.40	0.50
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.46	0.50
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	1.76	0.50
42:L5:107:ARG:NH2	42:L5:110:LEU:HD23	2.26	0.50
45:L8:84:ARG:HB3	45:L8:84:ARG:NH1	2.27	0.50
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	1.93	0.50
55:M9:101:VAL:HG13	55:M9:104:ARG:NH1	2.27	0.50
58:N2:27:VAL:HG21	58:N2:107:PHE:CE1	2.46	0.50
1:6:17:C:H2'	1:6:18:C:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1431:C:H1'	1:6:1437:U:O4	2.11	0.50
1:6:1596:C:OP1	31:d9:16:LYS:HG2	2.11	0.50
1:6:1756:A:H2'	1:6:1757:G:H8	1.77	0.50
7:s5:37:GLN:CD	18:c6:53:LEU:HD22	2.37	0.50
7:s5:158:GLN:OE1	7:s5:159:ALA:N	2.45	0.50
13:c1:72:THR:HG22	13:c1:124:THR:HA	1.93	0.50
15:c3:65:VAL:HG23	15:c3:66:ILE:HG23	1.92	0.50
18:c6:136:SER:C	18:c6:137:ARG:HE	2.20	0.50
25:d3:43:PHE:CE1	25:d3:49:ALA:HB3	2.47	0.50
26:d4:52:LYS:O	26:d4:54:ALA:N	2.45	0.50
33:e1:144:CYS:O	33:e1:146:SER:N	2.43	0.50
35:sM:120:GLU:C	35:sM:122:GLU:H	2.20	0.50
36:5:1308:A:OP2	36:5:1308:A:H8	1.94	0.50
36:5:3033:A:H2'	36:5:3034:C:C6	2.47	0.50
86:5:3974:OHX:N1	86:5:4242:OHX:N2	2.59	0.50
43:l6:170:LYS:O	43:l6:173:MET:HB2	2.12	0.50
45:l8:100:GLU:CD	45:l8:108:ARG:HH12	2.19	0.50
47:m0:68:ALA:HB2	47:m0:158:LYS:HB2	1.93	0.50
51:m5:150:TRP:O	51:m5:153:ASP:HB2	2.11	0.50
57:n1:84:TYR:CZ	65:n9:23:LYS:HE2	2.46	0.50
69:o3:13:HIS:NE2	69:o3:28:SER:HB3	2.27	0.50
78:q2:17:CYS:CB	78:q2:77:CYS:HG	2.24	0.50
1:2:280:U:O2'	1:2:281:G:OP2	2.22	0.50
1:2:1291:G:H21	1:2:1324:G:H22	1.59	0.50
1:2:1566:U:H2'	1:2:1567:U:H6	1.77	0.50
2:S0:185:ARG:H	23:D1:45:ALA:H	1.59	0.50
15:C3:22:ALA:HB1	15:C3:23:PRO:C	2.36	0.50
22:D0:72:ASN:OD1	22:D0:72:ASN:N	2.45	0.50
36:1:1528:G:N3	36:1:1588:A:H2	2.10	0.50
36:1:2209:U:O2'	36:1:2210:G:OP1	2.26	0.50
36:1:2828:G:P	47:M0:7:ARG:HH12	2.34	0.50
38:4:133:G:O6	86:4:231:OHX:N5	2.44	0.50
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.93	0.50
42:L5:279:LYS:HG2	42:L5:282:ARG:HH22	1.76	0.50
47:M0:161:GLY:O	47:M0:163:GLN:NE2	2.43	0.50
51:M5:138:GLN:HA	51:M5:143:ARG:HH11	1.75	0.50
52:M6:62:THR:HG21	52:M6:68:ARG:HG3	1.94	0.50
55:M9:132:PHE:CE2	55:M9:138:LEU:HD23	2.46	0.50
63:N7:87:LEU:HB2	63:N7:127:ASN:OD1	2.11	0.50
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	1.92	0.50
1:6:542:A:H1'	1:6:543:C:H5'	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:738:G:O6	86:6:2073:OHX:N4	2.45	0.50
1:6:1603:U:H2'	1:6:1604:U:C6	2.44	0.50
6:s4:126:VAL:HG22	6:s4:156:VAL:HA	1.93	0.50
6:s4:137:PRO:HB2	6:s4:150:PRO:HD2	1.94	0.50
6:s4:212:ASP:C	6:s4:214:LEU:H	2.19	0.50
9:s7:51:VAL:HG22	9:s7:55:LYS:O	2.11	0.50
11:s9:104:PHE:O	11:s9:147:MET:HE1	2.12	0.50
21:c9:42:GLY:HA2	21:c9:84:LYS:HG3	1.92	0.50
23:d1:85:TYR:CD1	29:d7:6:ASP:HB2	2.46	0.50
24:d2:23:ARG:HH11	24:d2:66:ASN:HA	1.77	0.50
30:d8:44:VAL:HG11	30:d8:48:VAL:HG21	1.94	0.50
36:5:118:U:O2	36:5:121:A:H5'	2.12	0.50
36:5:1015:U:O2'	36:5:1016:C:H3'	2.12	0.50
36:5:1439:U:H2'	36:5:1440:G:O4'	2.11	0.50
36:5:1818:U:H2'	36:5:1819:U:H6	1.75	0.50
36:5:2124:G:O2'	36:5:2125:A:H5'	2.11	0.50
36:5:2659:G:O6	86:5:3908:OHX:N4	2.44	0.50
36:5:2968:G:N7	39:l2:215:ASN:HB2	2.26	0.50
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.45	0.50
40:l3:19:ARG:HB3	40:l3:232:ARG:NH1	2.27	0.50
56:n0:5:LYS:HB2	56:n0:7:TYR:CE2	2.47	0.50
60:n4:120:LYS:O	60:n4:123:ARG:HB3	2.12	0.50
63:n7:22:LYS:HE2	63:n7:129:TRP:CH2	2.47	0.50
63:n7:99:GLU:HG3	63:n7:100:THR:HG23	1.93	0.50
71:o5:10:ARG:NH1	71:o5:60:GLU:OE1	2.44	0.50
1:2:229:U:H2'	1:2:230:C:C6	2.46	0.50
1:2:413:U:H2'	1:2:414:C:C6	2.47	0.50
1:2:538:A:H8	1:2:543:C:C4	2.29	0.50
1:2:647:G:H22	1:2:687:G:H1	1.59	0.50
1:2:819:G:N3	1:2:820:U:H5	2.10	0.50
1:2:830:U:C2	1:2:831:U:C5	2.99	0.50
12:C0:72:GLY:O	12:C0:76:LEU:HD22	2.11	0.50
15:C3:114:ARG:HG2	15:C3:114:ARG:NH1	2.16	0.50
25:D3:137:LYS:O	25:D3:138:GLU:HB2	2.12	0.50
36:1:651:G:O2'	36:1:1435:A:OP1	2.25	0.50
36:1:1477:A:OP1	36:1:3075:G:O2'	2.29	0.50
36:1:2712:U:H2'	36:1:2713:U:C6	2.47	0.50
36:1:2971:A:H3'	36:1:2971:A:N3	2.26	0.50
36:1:3121:U:H1'	36:1:3122:A:H5''	1.94	0.50
39:L2:54:ARG:HG2	39:L2:55:GLY:N	2.26	0.50
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.11	0.50
51:M5:53:TYR:O	51:M5:54:LYS:HD2	2.11	0.50
58:N2:43:VAL:O	58:N2:45:GLY:N	2.44	0.50
1:6:263:C:H4'	1:6:292:U:H5'	1.93	0.50
3:s1:169:SER:O	3:s1:173:THR:HG23	2.11	0.50
9:s7:48:GLU:C	9:s7:49:ILE:HG12	2.36	0.50
12:c0:58:GLN:O	12:c0:65:TYR:N	2.35	0.50
17:c5:126:VAL:HG22	17:c5:127:ARG:N	2.27	0.50
28:d6:30:ILE:HG13	28:d6:31:PRO:HD2	1.94	0.50
34:sR:177:MET:HE1	34:sR:193:ILE:HG13	1.94	0.50
36:5:595:G:C8	36:5:609:G:C6	2.99	0.50
36:5:1096:U:H4'	36:5:1097:G:O5'	2.12	0.50
36:5:2664:C:O2'	36:5:2665:U:H5'	2.12	0.50
37:7:98:C:OP1	56:n0:39:SER:OG	2.24	0.50
86:7:217:OHX:N3	86:7:225:OHX:N5	2.60	0.50
42:l5:155:THR:HG22	42:l5:179:ARG:NH1	2.27	0.50
45:l8:215:VAL:O	45:l8:219:ASP:HB2	2.12	0.50
50:m4:121:MET:O	50:m4:125:LYS:HG3	2.11	0.50
55:m9:25:ASP:HB3	55:m9:28:GLU:HB2	1.94	0.50
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.93	0.50
77:q1:6:ARG:O	77:q1:10:THR:HG23	2.11	0.50
1:2:544:A:H5''	1:2:545:A:OP2	2.12	0.50
1:2:707:A:H2'	1:2:708:C:H5''	1.92	0.50
1:2:739:G:O6	86:2:2098:OHX:N4	2.45	0.50
2:S0:32:HIS:C	2:S0:32:HIS:ND1	2.70	0.50
27:D5:59:TYR:CE2	27:D5:61:SER:HB3	2.46	0.50
86:1:4030:OHX:N6	86:1:4043:OHX:N3	2.60	0.50
38:4:113:U:H5''	75:O9:7:PHE:HB3	1.94	0.50
40:L3:160:VAL:HG22	40:L3:183:LEU:HD22	1.93	0.50
48:M1:95:ASN:O	48:M1:102:PHE:HA	2.12	0.50
48:M1:160:VAL:HG13	48:M1:171:VAL:HG21	1.94	0.50
50:M4:115:PHE:O	50:M4:119:GLN:HG3	2.12	0.50
52:M6:170:LYS:O	52:M6:173:ALA:HB3	2.11	0.50
57:N1:84:TYR:O	57:N1:85:LEU:HD23	2.11	0.50
59:N3:17:LEU:HD21	59:N3:98:ASN:ND2	2.27	0.50
67:O1:53:PRO:O	67:O1:57:GLN:HG3	2.12	0.50
1:6:241:U:H2'	1:6:242:U:C6	2.47	0.50
1:6:404:G:H2'	1:6:405:C:C6	2.47	0.50
1:6:558:U:OP2	80:e0:55:ARG:NH2	2.44	0.50
1:6:992:A:OP1	1:6:1786:G:H5'	2.10	0.50
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1395:G:O6	86:6:2088:OHX:N3	2.45	0.50
1:6:1595:U:N3	1:6:1600:A:C2	2.80	0.50
2:s0:195:TRP:CE2	2:s0:197:ILE:HB	2.47	0.50
17:c5:127:ARG:CZ	35:sM:66:ALA:HB2	2.42	0.50
36:5:942:U:N3	64:n8:16:SER:HA	2.26	0.50
36:5:1239:C:N3	36:5:1249:G:N2	2.57	0.50
36:5:1470:U:OP1	86:5:3958:OHX:N6	2.45	0.50
36:5:1602:A:O3'	55:m9:9:ARG:NH2	2.45	0.50
36:5:3242:G:H5''	36:5:3245:A:C8	2.47	0.50
39:l2:70:ARG:HD2	39:l2:72:ARG:NE	2.22	0.50
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.44	0.50
42:l5:111:GLN:HA	42:l5:116:ASP:HB3	1.94	0.50
49:m3:89:TYR:O	49:m3:92:THR:OG1	2.23	0.50
1:2:74:U:O2'	1:2:75:U:OP2	2.27	0.50
1:2:195:G:H2'	1:2:196:G:H5'	1.94	0.50
1:2:532:U:H4'	26:D4:66:GLY:HA2	1.94	0.50
1:2:901:G:C6	1:2:902:G:C6	2.99	0.50
1:2:1528:U:OP1	7:S5:109:LYS:HG2	2.12	0.50
86:2:2097:OHX:N6	13:C1:19:ILE:HD13	2.27	0.50
3:S1:77:GLU:C	3:S1:79:HIS:H	2.19	0.50
8:S6:38:GLY:O	8:S6:40:ALA:N	2.45	0.50
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.12	0.50
10:S8:35:ASN:O	10:S8:37:LYS:HD3	2.12	0.50
11:S9:37:LYS:HB3	32:E0:33:ARG:HB2	1.93	0.50
11:S9:94:ASP:OD1	11:S9:94:ASP:N	2.44	0.50
16:C4:42:VAL:HG23	16:C4:63:ALA:HB1	1.92	0.50
28:D6:24:VAL:HG11	28:D6:71:LEU:HD12	1.94	0.50
32:E0:41:THR:HA	32:E0:45:VAL:HB	1.92	0.50
33:E1:120:GLU:HA	33:E1:131:PHE:HA	1.94	0.50
36:1:634:C:H5'	69:O3:21:ARG:O	2.12	0.50
36:1:953:G:N2	36:1:1116:G:H2'	2.26	0.50
36:1:1307:G:H5''	52:M6:60:LYS:HZ2	1.75	0.50
36:1:1334:U:H1'	44:L7:208:SER:HB2	1.93	0.50
36:1:1362:G:OP1	86:1:4030:OHX:N6	2.44	0.50
36:1:2261:G:O2'	36:1:2263:C:N4	2.45	0.50
36:1:2295:A:H5'	59:N3:61:THR:HG21	1.94	0.50
36:1:2777:G:H5'	36:1:2779:A:OP2	2.12	0.50
36:1:2884:C:H2'	36:1:2885:C:H6	1.77	0.50
36:1:3045:G:O3'	40:L3:275:ARG:NH1	2.44	0.50
40:L3:3:HIS:ND1	40:L3:3:HIS:C	2.69	0.50
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:11:PHE:CG	59:N3:88:ARG:HD2	2.47	0.50
74:O8:46:ARG:HA	74:O8:51:LEU:HD12	1.92	0.50
1:6:564:G:O6	86:6:2153:OHX:N5	2.45	0.50
1:6:784:C:H2'	1:6:785:U:C6	2.47	0.50
1:6:1459:C:N4	20:c8:139:LYS:HE2	2.26	0.50
2:s0:7:PHE:CZ	23:d1:43:GLY:HA2	2.47	0.50
2:s0:29:VAL:O	2:s0:30:GLN:HB3	2.12	0.50
2:s0:92:HIS:HB3	2:s0:182:LEU:HD11	1.93	0.50
3:s1:103:MET:HB3	3:s1:215:VAL:CG1	2.41	0.50
4:s2:225:LEU:HD21	4:s2:230:TRP:HD1	1.77	0.50
9:s7:56:LYS:HD3	9:s7:88:ARG:NH1	2.27	0.50
21:c9:139:THR:O	21:c9:142:GLU:HG3	2.11	0.50
27:d5:38:HIS:ND1	27:d5:70:LYS:HG2	2.27	0.50
36:5:2642:A:OP2	57:n1:3:LYS:HE3	2.11	0.50
36:5:2724:U:OP1	57:n1:57:TYR:OH	2.25	0.50
36:5:2946:A:H5''	36:5:2947:G:H5'	1.93	0.50
36:5:3195:U:O2'	36:5:3196:U:H5'	2.12	0.50
39:l2:96:LEU:O	79:q3:87:ARG:HD3	2.11	0.50
40:l3:37:ARG:CA	40:l3:186:GLY:HA2	2.42	0.50
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.47	0.50
53:m7:65:SER:O	53:m7:66:SER:HB2	2.12	0.50
59:n3:2:SER:OG	59:n3:3:GLY:N	2.35	0.50
61:n5:96:LYS:O	61:n5:100:LYS:HB2	2.12	0.50
1:2:287:G:O2'	1:2:288:A:OP2	2.29	0.50
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.11	0.50
1:2:584:C:H1'	32:E0:18:THR:HG21	1.93	0.50
1:2:1000:C:H2'	1:2:1002:G:OP2	2.12	0.50
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.42	0.50
20:C8:49:LYS:NZ	20:C8:80:LYS:O	2.31	0.50
36:1:700:C:OP1	49:M3:65:TYR:OH	2.21	0.50
36:1:761:A:C2	36:1:771:A:H1'	2.47	0.50
36:1:1947:G:H1	36:1:2101:C:N4	2.09	0.50
36:1:2228:A:H2'	36:1:2229:A:C8	2.47	0.50
36:1:3176:G:H1'	69:O3:3:GLU:OE1	2.11	0.50
86:1:3969:OHX:N3	86:1:4155:OHX:N4	2.59	0.50
86:1:4206:OHX:N4	38:4:16:G:OP1	2.45	0.50
39:L2:130:SER:HA	39:L2:169:ILE:HG22	1.92	0.50
40:L3:214:MET:HE2	40:L3:350:ALA:HB2	1.93	0.50
41:L4:269:SER:O	41:L4:271:LYS:N	2.38	0.50
43:L6:108:LYS:O	43:L6:109:GLU:HG2	2.12	0.50
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:33:ILE:HD11	47:M0:36:LEU:HD21	1.92	0.50
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.77	0.50
54:M8:83:VAL:O	54:M8:103:ALA:HA	2.12	0.50
55:M9:179:GLU:O	55:M9:183:ALA:HB2	2.12	0.50
64:N8:3:SER:O	64:N8:6:THR:HG22	2.12	0.50
2:s0:58:VAL:O	2:s0:62:ARG:HB2	2.11	0.50
2:s0:144:ILE:HD13	2:s0:158:VAL:HG11	1.93	0.50
6:s4:121:TYR:HA	6:s4:163:ASP:O	2.12	0.50
7:s5:59:VAL:C	7:s5:61:TYR:H	2.20	0.50
9:s7:122:HIS:HD2	9:s7:179:LYS:NZ	2.10	0.50
10:s8:9:HIS:C	10:s8:9:HIS:ND1	2.69	0.50
36:5:439:C:H1'	36:5:440:A:C8	2.47	0.50
36:5:670:C:OP1	54:m8:147:ARG:NH2	2.45	0.50
36:5:1135:A:H5'	65:n9:7:HIS:O	2.11	0.50
36:5:1308:A:OP2	36:5:1308:A:C8	2.65	0.50
36:5:2225:U:H2'	36:5:2226:U:C6	2.46	0.50
36:5:3103:A:OP2	86:5:4159:OHX:N4	2.45	0.50
36:5:3331:U:H2'	36:5:3332:U:O4'	2.11	0.50
37:7:92:A:H5''	37:7:93:C:OP2	2.12	0.50
37:7:110:G:C6	37:7:111:U:C4	3.00	0.50
59:n3:45:ARG:O	59:n3:46:LEU:C	2.53	0.50
64:n8:3:SER:O	64:n8:6:THR:HB	2.11	0.50
64:n8:83:PRO:HG2	64:n8:86:LYS:HD2	1.93	0.50
65:n9:14:ARG:CZ	65:n9:18:ARG:HD3	2.42	0.50
72:o6:58:ILE:HA	72:o6:61:ILE:HD12	1.94	0.50
78:q2:40:LYS:HE3	78:q2:44:ASP:OD2	2.12	0.50
82:p0:72:ASP:OD2	82:p0:72:ASP:N	2.45	0.50
1:2:340:U:H2'	1:2:341:A:C8	2.47	0.49
1:2:647:G:N2	1:2:687:G:H1	2.09	0.49
1:2:654:C:H3'	1:2:655:G:H5''	1.93	0.49
1:2:729:G:H2'	1:2:729:G:N3	2.27	0.49
1:2:795:U:C5	1:2:796:A:C8	2.99	0.49
1:2:987:G:C2	39:L2:249:SER:HB2	2.47	0.49
1:2:1294:G:O6	86:2:2078:OHX:N4	2.45	0.49
1:2:1410:A:H2'	1:2:1411:A:O4'	2.10	0.49
1:2:1516:A:O2'	1:2:1517:U:H5'	2.12	0.49
1:2:1637:C:HO2'	35:SM:94:HIS:CD2	2.28	0.49
5:S3:136:VAL:HG12	5:S3:152:PHE:HB2	1.94	0.49
6:S4:22:LYS:HG2	6:S4:23:LEU:HD13	1.93	0.49
8:S6:116:LYS:NZ	8:S6:120:GLU:OE2	2.30	0.49
13:C1:28:SER:O	13:C1:29:LYS:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:20:TYR:CD1	16:C4:84:ARG:HD3	2.46	0.49
20:C8:85:PHE:C	20:C8:86:LEU:HD12	2.37	0.49
21:C9:137:ALA:O	21:C9:141:GLU:HG2	2.12	0.49
25:D3:57:LEU:HD22	32:E0:4:VAL:HG12	1.94	0.49
36:1:223:U:OP1	36:1:225:C:N4	2.44	0.49
36:1:595:G:C8	36:1:609:G:C6	3.00	0.49
36:1:736:A:H2'	36:1:737:G:O4'	2.12	0.49
36:1:2097:U:H2'	36:1:2098:C:C6	2.47	0.49
36:1:3010:U:OP2	86:1:4200:OHX:N5	2.44	0.49
46:L9:22:SER:OG	46:L9:39:LYS:HE3	2.11	0.49
48:M1:150:ASN:C	48:M1:152:HIS:H	2.20	0.49
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.46	0.49
56:N0:13:ARG:O	56:N0:22:PRO:HG2	2.12	0.49
65:N9:14:ARG:CZ	65:N9:18:ARG:HD2	2.41	0.49
1:6:217:A:C8	1:6:218:A:C8	3.00	0.49
1:6:905:A:N1	1:6:998:A:O2'	2.45	0.49
1:6:1435:G:N7	12:c0:25:LYS:NZ	2.55	0.49
1:6:1595:U:H3	1:6:1600:A:H2	1.58	0.49
2:s0:71:GLU:O	2:s0:96:THR:OG1	2.29	0.49
2:s0:163:ASN:HB3	2:s0:169:SER:CB	2.41	0.49
2:s0:178:ALA:HA	2:s0:181:VAL:HG22	1.94	0.49
10:s8:10:LYS:HG2	13:c1:133:LYS:CE	2.41	0.49
19:c7:90:ALA:HB3	19:c7:95:ARG:CB	2.42	0.49
20:c8:127:HIS:CD2	20:c8:133:VAL:HG11	2.47	0.49
24:d2:105:THR:HG23	24:d2:110:ILE:HG12	1.94	0.49
34:sR:70:ASP:OD1	34:sR:71:CYS:N	2.40	0.49
36:5:529:A:H2'	36:5:530:G:O4'	2.10	0.49
36:5:3198:U:H4'	36:5:3199:G:OP2	2.12	0.49
36:5:3298:C:H2'	36:5:3299:A:O4'	2.12	0.49
37:7:57:G:H3'	37:7:58:C:H6	1.77	0.49
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.94	0.49
42:l5:21:ARG:HG2	42:l5:21:ARG:HH11	1.77	0.49
42:l5:95:TRP:HZ3	42:l5:156:GLY:O	1.95	0.49
51:m5:15:GLN:HG2	72:o6:52:PRO:HG2	1.94	0.49
54:m8:60:PRO:HG3	54:m8:144:ARG:HB3	1.93	0.49
57:n1:86:GLU:OE1	57:n1:88:ARG:NH1	2.45	0.49
1:2:957:G:O2'	29:D7:49:HIS:HD2	1.95	0.49
1:2:1773:C:H2'	1:2:1774:G:C8	2.47	0.49
3:S1:34:ALA:HA	3:S1:98:THR:HG22	1.94	0.49
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.77	0.49
4:S2:90:THR:C	4:S2:92:ALA:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:40:TYR:C	15:C3:42:ARG:H	2.19	0.49
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	1.95	0.49
22:D0:99:ILE:HD11	22:D0:103:ILE:HG12	1.94	0.49
22:D0:118:VAL:HG22	22:D0:119:ALA:N	2.27	0.49
24:D2:77:PRO:O	24:D2:79:PHE:N	2.44	0.49
30:D8:15:VAL:O	30:D8:17:GLY:N	2.43	0.49
33:E1:119:ARG:HH11	33:E1:139:LEU:HD21	1.76	0.49
36:1:873:C:H5''	36:1:874:U:O5'	2.12	0.49
36:1:981:U:HO2'	36:1:982:C:P	2.35	0.49
36:1:1308:A:OP2	36:1:1308:A:H8	1.91	0.49
36:1:1591:G:OP1	70:O4:16:ARG:NH1	2.46	0.49
36:1:1639:C:O2'	36:1:1640:G:H5'	2.12	0.49
50:M4:123:LEU:HD13	52:M6:194:LEU:HG	1.93	0.49
59:N3:84:SER:HA	59:N3:94:TYR:HB3	1.95	0.49
71:O5:86:ARG:HG3	71:O5:90:ARG:NH2	2.27	0.49
73:O7:28:HIS:CG	73:O7:31:LYS:HB2	2.46	0.49
1:6:758:U:OP1	11:s9:7:THR:HG21	2.12	0.49
1:6:837:G:H2'	1:6:838:G:C8	2.47	0.49
1:6:1474:G:OP2	7:s5:109:LYS:HE2	2.13	0.49
9:s7:20:VAL:O	9:s7:24:PHE:N	2.45	0.49
20:c8:117:LYS:O	20:c8:120:ARG:HD2	2.12	0.49
25:d3:92:CYS:HG	25:d3:136:TRP:CD1	2.30	0.49
27:d5:58:ARG:HB3	27:d5:103:ARG:NH1	2.27	0.49
36:5:1128:U:OP1	47:m0:4:ARG:NH2	2.40	0.49
36:5:1440:G:N7	86:5:3965:OHX:N6	2.61	0.49
36:5:1595:U:H1'	36:5:1596:C:C6	2.47	0.49
36:5:1741:A:C6	36:5:1742:U:C2	3.00	0.49
36:5:1757:A:H2'	36:5:1758:G:C8	2.47	0.49
36:5:2567:C:H2'	36:5:2568:C:H5'	1.94	0.49
36:5:3121:U:H1'	36:5:3122:A:H5''	1.93	0.49
86:5:3974:OHX:N1	86:5:4242:OHX:N5	2.59	0.49
38:8:27:U:H4'	41:l4:51:ALA:HB3	1.93	0.49
47:m0:38:LYS:NZ	47:m0:45:GLU:OE1	2.46	0.49
52:m6:8:VAL:HG22	52:m6:34:VAL:HG13	1.92	0.49
53:m7:124:LYS:HB3	53:m7:140:GLU:HG2	1.94	0.49
64:n8:2:PRO:HD2	64:n8:5:PHE:CD2	2.46	0.49
73:o7:31:LYS:O	73:o7:33:THR:HG22	2.13	0.49
1:2:516:G:N2	1:2:536:C:O2	2.24	0.49
1:2:896:U:H1'	16:C4:38:THR:HG21	1.95	0.49
1:2:1119:G:O6	86:2:2147:OHX:N1	2.46	0.49
1:2:1489:U:H5'	1:2:1494:C:H1'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1509:C:H2'	1:2:1510:U:O4'	2.12	0.49
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.27	0.49
13:C1:75:VAL:HG12	13:C1:119:VAL:HA	1.94	0.49
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	2.47	0.49
24:D2:24:GLN:OE1	29:D7:4:VAL:HA	2.12	0.49
28:D6:41:ILE:HD13	28:D6:41:ILE:H	1.76	0.49
30:D8:13:ILE:HG22	30:D8:14:LYS:HD3	1.94	0.49
36:1:2319:U:O4	86:1:4038:OHX:N2	2.45	0.49
36:1:2747:A:H2'	36:1:2748:A:C8	2.48	0.49
36:1:3111:U:H2'	36:1:3112:G:O4'	2.12	0.49
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.12	0.49
42:L5:50:ARG:NH2	42:L5:147:ASP:OD2	2.45	0.49
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	1.94	0.49
55:M9:169:ALA:HA	55:M9:172:ARG:HD2	1.94	0.49
57:N1:78:LYS:HB3	57:N1:87:LYS:HG3	1.94	0.49
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.11	0.49
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.77	0.49
74:O8:7:ASP:HB3	74:O8:10:GLN:HB3	1.93	0.49
1:6:212:U:OP2	86:6:2125:OHX:N1	2.46	0.49
1:6:1654:G:P	77:q1:21:ARG:HH11	2.35	0.49
11:s9:3:ARG:HH21	11:s9:3:ARG:CG	2.25	0.49
36:5:181:U:H1'	36:5:236:G:N2	2.26	0.49
36:5:677:A:OP1	54:m8:89:ASP:HB3	2.12	0.49
36:5:1282:G:H2'	36:5:1283:C:O4'	2.12	0.49
36:5:1363:A:OP2	86:5:4200:OHX:N3	2.46	0.49
36:5:1947:G:H5''	36:5:1948:G:OP2	2.11	0.49
36:5:1949:G:OP1	55:m9:104:ARG:NH1	2.43	0.49
36:5:2207:A:N6	36:5:2236:G:H1	2.05	0.49
36:5:2402:A:OP2	86:5:4110:OHX:N3	2.46	0.49
36:5:2726:C:O2'	36:5:2727:A:H2'	2.12	0.49
40:l3:227:GLU:HG3	40:l3:270:ARG:NE	2.26	0.49
41:l4:233:LEU:HD22	41:l4:238:LEU:HD11	1.95	0.49
46:l9:93:VAL:HG22	76:q0:82:LEU:HD13	1.94	0.49
47:m0:150:GLU:HG3	47:m0:154:ARG:HD2	1.94	0.49
48:m1:8:PRO:CG	48:m1:9:MET:H	2.25	0.49
56:n0:13:ARG:NH1	56:n0:13:ARG:CG	2.75	0.49
59:n3:80:ARG:HD3	59:n3:117:PRO:O	2.12	0.49
63:n7:54:THR:H	63:n7:57:HIS:CD2	2.31	0.49
1:2:140:A:H61	1:2:281:G:P	2.32	0.49
1:2:461:G:H2'	1:2:462:G:C8	2.47	0.49
1:2:481:A:H61	1:2:505:A:N6	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1504:G:C6	1:2:1505:A:C6	3.01	0.49
2:S0:27:ARG:C	2:S0:29:VAL:N	2.70	0.49
3:S1:51:SER:HA	3:S1:57:ALA:N	2.26	0.49
3:S1:129:THR:HG23	3:S1:135:LEU:HD21	1.93	0.49
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.48	0.49
6:S4:194:THR:O	6:S4:195:ILE:HB	2.13	0.49
14:C2:61:VAL:HA	14:C2:89:ILE:HG22	1.93	0.49
36:1:964:G:OP1	86:1:3961:OHX:N2	2.45	0.49
36:1:1215:U:H2'	36:1:1216:C:H5''	1.93	0.49
36:1:1795:U:H2'	39:L2:50:HIS:CD2	2.48	0.49
86:1:3955:OHX:N4	44:L7:217:PRO:HA	2.28	0.49
39:L2:59:ALA:O	39:L2:61:VAL:HG23	2.12	0.49
42:L5:9:SER:OG	42:L5:10:SER:N	2.44	0.49
63:N7:53:VAL:HG21	63:N7:62:VAL:HG13	1.94	0.49
79:Q3:3:LYS:NZ	79:Q3:6:LYS:HA	2.27	0.49
1:6:104:A:H61	1:6:308:C:H5'	1.78	0.49
1:6:1110:G:N2	1:6:1136:U:H1'	2.27	0.49
1:6:1253:U:O4	33:e1:97:LYS:NZ	2.46	0.49
1:6:1429:G:H2'	1:6:1430:U:C6	2.47	0.49
86:6:2059:OHX:N5	86:6:2146:OHX:N3	2.60	0.49
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	1.95	0.49
2:s0:163:ASN:O	2:s0:165:ARG:N	2.46	0.49
9:s7:30:SER:CB	9:s7:34:LEU:HD12	2.41	0.49
13:c1:17:PRO:HB2	13:c1:18:HIS:CD2	2.46	0.49
15:c3:94:LYS:HG2	15:c3:118:ILE:HD13	1.94	0.49
24:d2:73:GLY:HA3	24:d2:128:PHE:CZ	2.48	0.49
36:5:2790:A:OP2	54:m8:181:SER:HB3	2.12	0.49
37:7:95:A:OP2	86:7:225:OHX:N1	2.45	0.49
41:l4:299:ILE:HG22	54:m8:39:ARG:HE	1.78	0.49
50:m4:113:THR:HG22	50:m4:116:GLU:OE1	2.11	0.49
61:n5:115:ARG:HH11	61:n5:115:ARG:CG	2.23	0.49
66:o0:45:ALA:O	66:o0:48:THR:OG1	2.30	0.49
1:2:488:G:N2	1:2:500:C:O2	2.46	0.49
1:2:542:A:H8	1:2:543:C:H3'	1.78	0.49
1:2:1214:U:OP1	1:2:1246:C:H1'	2.11	0.49
86:2:2045:OHX:N2	86:2:2100:OHX:N5	2.60	0.49
2:S0:76:ILE:HA	2:S0:98:ILE:HB	1.95	0.49
5:S3:176:LEU:H	5:S3:176:LEU:HD12	1.78	0.49
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.12	0.49
8:S6:27:PHE:O	8:S6:30:LYS:HG2	2.12	0.49
10:S8:103:GLN:HG3	10:S8:166:TYR:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:129:PHE:HE1	22:D0:78:THR:HA	1.78	0.49
20:C8:91:ASP:C	20:C8:93:THR:H	2.20	0.49
25:D3:91:GLY:O	25:D3:93:LEU:N	2.42	0.49
34:SR:117:LYS:NZ	34:SR:157:VAL:O	2.46	0.49
36:1:608:A:H5''	36:1:609:G:OP2	2.12	0.49
36:1:716:A:C6	64:N8:117:ARG:HG3	2.46	0.49
36:1:1547:G:OP1	51:M5:105:ARG:HD3	2.13	0.49
36:1:3112:G:O2'	46:L9:70:THR:HB	2.13	0.49
36:1:3198:U:O4	46:L9:26:LYS:HB2	2.11	0.49
86:1:4030:OHX:N4	86:1:4043:OHX:N3	2.59	0.49
40:L3:41:VAL:HG22	40:L3:186:GLY:H	1.78	0.49
50:M4:34:ALA:HB2	50:M4:85:TRP:HZ3	1.77	0.49
55:M9:23:TRP:CE3	55:M9:51:VAL:HG13	2.45	0.49
59:N3:81:GLN:O	59:N3:82:ALA:HB3	2.11	0.49
64:N8:85:ASP:OD1	64:N8:86:LYS:HG2	2.12	0.49
78:Q2:43:TYR:CZ	78:Q2:47:GLN:NE2	2.80	0.49
1:6:322:G:OP1	86:6:2106:OHX:N5	2.45	0.49
1:6:571:G:C5'	25:d3:114:LYS:HE2	2.42	0.49
1:6:741:C:H2'	9:s7:107:ARG:HH22	1.78	0.49
1:6:1228:G:OP2	1:6:1228:G:H4'	2.12	0.49
86:6:2117:OHX:N3	59:n3:133:SER:O	2.46	0.49
4:s2:82:ASN:C	4:s2:83:ILE:HG12	2.36	0.49
4:s2:116:LYS:HG2	4:s2:127:ALA:HB3	1.94	0.49
6:s4:21:ASP:OD2	6:s4:21:ASP:N	2.43	0.49
6:s4:57:ASN:HB2	6:s4:60:GLU:HG3	1.93	0.49
15:c3:56:ASP:OD2	29:d7:51:GLN:N	2.43	0.49
26:d4:135:ASP:HA	86:d4:201:OHX:N4	2.26	0.49
34:sR:76:ASP:OD1	34:sR:76:ASP:N	2.29	0.49
36:5:330:G:OP2	86:5:4049:OHX:N1	2.45	0.49
36:5:378:A:N7	36:5:391:A:H2	2.10	0.49
36:5:746:A:OP1	54:m8:145:ASN:ND2	2.45	0.49
36:5:1621:A:H2'	36:5:1622:U:C6	2.47	0.49
86:5:3911:OHX:N4	57:n1:13:TYR:O	2.46	0.49
86:7:217:OHX:N1	86:7:225:OHX:N2	2.61	0.49
38:8:145:U:H2'	38:8:146:U:C6	2.47	0.49
39:l2:82:VAL:HA	39:l2:86:GLN:OE1	2.11	0.49
40:l3:308:MET:HE2	40:l3:372:THR:C	2.36	0.49
44:l7:140:SER:O	44:l7:144:ILE:HG13	2.12	0.49
46:l9:77:ASN:HA	46:l9:80:THR:CG2	2.42	0.49
48:m1:8:PRO:HD2	48:m1:10:ARG:HG3	1.95	0.49
49:m3:122:LYS:HG3	71:o5:119:LYS:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:4:TYR:CZ	53:m7:18:ARG:HG3	2.48	0.49
55:m9:89:LEU:HD12	55:m9:90:PRO:HD2	1.95	0.49
1:2:491:C:N3	1:2:496:G:N2	2.45	0.49
1:2:560:U:H2'	1:2:561:G:H8	1.77	0.49
1:2:591:A:H2'	1:2:592:A:H8	1.78	0.49
1:2:1039:A:O2'	1:2:1040:G:OP2	2.26	0.49
1:2:1234:A:H4'	33:E1:146:SER:HB3	1.94	0.49
2:S0:35:PRO:C	2:S0:37:VAL:H	2.21	0.49
3:S1:120:LEU:HD11	3:S1:140:ILE:HD11	1.95	0.49
5:S3:163:PRO:O	5:S3:167:PHE:N	2.46	0.49
8:S6:7:TYR:HD2	8:S6:113:ILE:HG21	1.76	0.49
16:C4:13:VAL:H	16:C4:77:THR:HG1	1.61	0.49
19:C7:99:VAL:CB	19:C7:118:PRO:HB2	2.42	0.49
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.95	0.49
29:D7:50:ALA:O	29:D7:51:GLN:HB2	2.12	0.49
35:SM:31:SER:OG	36:1:2667:A:OP1	2.22	0.49
35:SM:88:ARG:HG2	35:SM:91:THR:CG2	2.43	0.49
35:SM:89:ARG:C	35:SM:91:THR:H	2.20	0.49
36:1:659:G:H2'	36:1:1432:C:H42	1.77	0.49
36:1:1238:C:H41	36:1:1245:A:P	2.34	0.49
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.12	0.49
42:L5:208:MET:HB2	42:L5:233:ALA:HB2	1.94	0.49
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.27	0.49
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.47	0.49
61:N5:76:VAL:HG22	61:N5:81:ILE:O	2.13	0.49
1:6:127:G:N7	8:s6:202:ARG:NH2	2.60	0.49
4:s2:178:ILE:H	4:s2:178:ILE:HD12	1.77	0.49
7:s5:42:LEU:HB2	7:s5:45:LYS:HD2	1.94	0.49
13:c1:118:GLN:O	13:c1:121:ASP:HB2	2.13	0.49
20:c8:76:PRO:C	20:c8:78:HIS:H	2.20	0.49
22:d0:62:VAL:HG22	22:d0:85:ARG:HG2	1.95	0.49
26:d4:49:LYS:HD3	26:d4:49:LYS:N	2.28	0.49
31:d9:24:CYS:HB3	31:d9:42:CYS:SG	2.51	0.49
33:e1:140:TYR:HE1	33:e1:146:SER:O	1.95	0.49
34:sR:248:ASN:OD1	34:sR:249:ARG:HG3	2.12	0.49
36:5:173:G:N1	36:5:246:U:C2	2.81	0.49
36:5:595:G:N1	36:5:609:G:H5''	2.27	0.49
36:5:979:U:C2	36:5:980:A:N3	2.81	0.49
36:5:1576:G:C8	36:5:1577:G:C8	3.00	0.49
36:5:1879:A:H2'	36:5:1879:A:N3	2.28	0.49
36:5:2882:U:H2'	36:5:2883:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:62:C:H4'	38:8:63:G:O5'	2.12	0.49
41:14:104:LYS:HD2	41:14:106:TRP:CZ2	2.47	0.49
41:14:129:THR:O	41:14:148:ILE:HD11	2.13	0.49
41:14:191:LYS:HG3	41:14:194:TYR:CE2	2.48	0.49
45:18:115:ALA:O	45:18:119:GLY:N	2.45	0.49
53:m7:30:ARG:HD3	53:m7:30:ARG:C	2.37	0.49
63:n7:54:THR:HG22	63:n7:57:HIS:CE1	2.47	0.49
66:o0:32:LYS:O	66:o0:36:GLN:HG3	2.11	0.49
67:o1:15:ASN:O	67:o1:19:ARG:HG3	2.12	0.49
70:o4:5:VAL:HG13	70:o4:6:THR:N	2.27	0.49
1:2:4:C:OP1	4:S2:200:SER:OG	2.30	0.49
1:2:79:C:H4'	8:S6:173:PRO:O	2.12	0.49
1:2:422:G:N7	86:2:2109:OHX:N5	2.60	0.49
1:2:773:C:H5''	6:S4:21:ASP:HB2	1.95	0.49
1:2:819:G:O6	1:2:853:G:C6	2.65	0.49
1:2:911:U:O2'	1:2:915:A:H1'	2.12	0.49
1:2:1183:A:C5	1:2:1184:A:C6	3.01	0.49
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.95	0.49
4:S2:130:ILE:O	4:S2:134:LEU:HD22	2.13	0.49
4:S2:250:GLN:CD	4:S2:250:GLN:H	2.19	0.49
5:S3:94:ARG:NH1	35:SM:130:GLU:OE2	2.39	0.49
15:C3:123:HIS:CE1	15:C3:141:TYR:HD2	2.31	0.49
34:SR:113:VAL:HG13	34:SR:114:ASP:H	1.77	0.49
34:SR:161:LYS:HE3	34:SR:164:ASP:HB3	1.93	0.49
34:SR:237:GLN:HB2	34:SR:238:ASP:OD1	2.13	0.49
36:1:438:A:O2'	36:1:495:G:H4'	2.12	0.49
36:1:619:A:H4'	36:1:620:U:O4'	2.12	0.49
36:1:1582:C:O2'	36:1:1583:A:O5'	2.27	0.49
36:1:2939:G:OP2	40:L3:2:SER:O	2.31	0.49
36:1:3353:G:O2'	36:1:3354:U:OP1	2.31	0.49
38:4:154:C:H2'	38:4:155:A:O4'	2.13	0.49
40:L3:261:MET:HG2	52:M6:64:PHE:HA	1.94	0.49
43:L6:5:LYS:O	43:L6:6:ALA:HB3	2.12	0.49
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.24	0.49
47:M0:193:ASP:CG	47:M0:198:LYS:HE3	2.38	0.49
49:M3:91:ARG:NH1	49:M3:97:VAL:HB	2.28	0.49
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.76	0.49
63:N7:17:ARG:HG2	70:O4:73:SER:HB3	1.94	0.49
72:O6:53:TYR:CD1	72:O6:76:ARG:HG2	2.47	0.49
74:O8:69:LEU:HD12	74:O8:73:LEU:HD23	1.95	0.49
1:6:66:U:O2'	1:6:67:A:H5''	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:116:U:H2'	1:6:117:U:C6	2.47	0.49
1:6:138:A:H2'	1:6:139:C:H5'	1.95	0.49
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.47	0.49
5:s3:209:ILE:HG23	19:c7:38:ILE:O	2.13	0.49
27:d5:66:VAL:HG22	27:d5:71:ILE:HG22	1.95	0.49
34:sR:167:VAL:HG23	34:sR:183:LEU:HB2	1.95	0.49
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.94	0.49
36:5:2988:C:P	52:m6:68:ARG:NH1	2.86	0.49
86:5:4011:OHX:N4	86:5:4201:OHX:N1	2.60	0.49
39:l2:185:ALA:O	39:l2:188:LYS:HB3	2.13	0.49
39:l2:238:ILE:O	39:l2:240:ALA:N	2.44	0.49
40:l3:92:TYR:O	40:l3:155:ALA:HA	2.13	0.49
40:l3:339:ARG:HG2	40:l3:340:LYS:O	2.12	0.49
41:l4:234:ASN:OD1	41:l4:234:ASN:C	2.56	0.49
46:l9:162:GLN:HG3	46:l9:163:GLN:N	2.28	0.49
51:m5:98:LEU:HD22	51:m5:128:LYS:HZ1	1.78	0.49
57:n1:83:ARG:HB2	65:n9:22:LYS:HE3	1.94	0.49
1:2:778:G:H22	26:D4:10:ARG:CZ	2.26	0.49
1:2:1059:U:O2'	1:2:1060:U:N3	2.45	0.49
2:S0:14:ALA:O	2:S0:18:LEU:HG	2.12	0.49
5:S3:168:ILE:HG22	5:S3:189:MET:HB2	1.94	0.49
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	1.95	0.49
8:S6:214:LYS:HA	8:S6:217:SER:OG	2.12	0.49
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.27	0.49
20:C8:35:ILE:HB	20:C8:38:VAL:CG2	2.42	0.49
21:C9:57:ARG:HH11	21:C9:57:ARG:CG	2.25	0.49
35:SM:41:SER:O	35:SM:43:ASP:N	2.37	0.49
36:1:726:G:H1'	36:1:744:A:N6	2.27	0.49
36:1:3338:C:H2'	36:1:3339:A:H8	1.77	0.49
41:L4:120:TYR:CE2	41:L4:277:PRO:HB3	2.48	0.49
47:M0:168:SER:OG	57:N1:160:ILE:O	2.26	0.49
62:N6:37:LYS:HG2	62:N6:38:GLU:H	1.76	0.49
64:N8:2:PRO:HG2	64:N8:5:PHE:CD2	2.47	0.49
65:N9:23:LYS:CD	65:N9:24:PRO:HD3	2.41	0.49
1:6:478:A:H5'	80:e0:33:ARG:NH2	2.28	0.49
1:6:538:A:C8	1:6:543:C:N4	2.73	0.49
1:6:1637:C:H6	1:6:1637:C:H5''	1.77	0.49
5:s3:124:ARG:O	5:s3:128:GLU:HB2	2.13	0.49
6:s4:26:CYS:HB2	6:s4:27:TYR:CE2	2.47	0.49
6:s4:160:VAL:HG11	6:s4:169:ILE:HG12	1.95	0.49
9:s7:126:LEU:HD13	9:s7:173:TYR:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c0:72:GLY:C	12:c0:74:GLU:H	2.19	0.49
24:d2:34:ILE:O	24:d2:38:LEU:HG	2.12	0.49
26:d4:20:ARG:HE	26:d4:22:GLN:HE21	1.59	0.49
27:d5:40:VAL:HA	27:d5:75:LEU:HD13	1.94	0.49
36:5:2158:A:H5'	36:5:2160:G:O4'	2.12	0.49
36:5:2406:C:H2'	36:5:2407:C:C6	2.48	0.49
39:l2:14:SER:O	39:l2:17:THR:HG23	2.13	0.49
40:l3:4:ARG:HG3	40:l3:6:TYR:O	2.13	0.49
41:l4:26:PHE:HA	41:l4:127:ALA:HA	1.95	0.49
42:l5:290:ILE:HG23	47:m0:210:ILE:HD11	1.94	0.49
45:l8:161:GLU:HA	45:l8:164:VAL:HG22	1.94	0.49
49:m3:91:ARG:NH2	49:m3:97:VAL:O	2.46	0.49
50:m4:14:LEU:H	50:m4:19:ARG:NH1	2.11	0.49
53:m7:32:THR:HG21	53:m7:87:SER:CB	2.41	0.49
61:n5:73:MET:HE1	61:n5:141:TYR:CE1	2.47	0.49
1:2:15:U:H2'	1:2:16:G:O4'	2.13	0.49
1:2:866:G:OP1	15:C3:2:GLY:HA3	2.12	0.49
1:2:1450:U:H2'	1:2:1451:C:C6	2.48	0.49
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.48	0.49
9:S7:51:VAL:HG11	9:S7:168:SER:OG	2.12	0.49
13:C1:95:PRO:O	13:C1:96:LYS:C	2.55	0.49
16:C4:124:ASP:O	16:C4:125:SER:HB2	2.12	0.49
36:1:210:U:C2	36:1:230:U:H4'	2.48	0.49
36:1:677:A:H4'	36:1:678:G:O5'	2.11	0.49
36:1:776:U:C5	36:1:2719:U:O2	2.66	0.49
36:1:1170:A:H2'	36:1:1171:G:O4'	2.13	0.49
36:1:1573:G:H2'	36:1:1573:G:N3	2.28	0.49
36:1:2563:G:H5''	45:L8:27:THR:HG23	1.94	0.49
39:L2:179:LEU:O	39:L2:184:ARG:HG3	2.12	0.49
41:L4:98:ARG:HD2	41:L4:99:MET:O	2.12	0.49
42:L5:58:LYS:HD2	42:L5:93:THR:OG1	2.13	0.49
42:L5:68:THR:HG22	42:L5:70:THR:N	2.24	0.49
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.94	0.49
53:M7:48:LEU:HB3	53:M7:88:VAL:HG13	1.95	0.49
57:N1:42:ILE:HG12	57:N1:96:ILE:HD11	1.95	0.49
57:N1:79:MET:HA	57:N1:84:TYR:HA	1.94	0.49
72:O6:21:THR:O	72:O6:21:THR:OG1	2.30	0.49
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.77	0.49
74:O8:66:ILE:HG21	74:O8:77:ARG:NH2	2.28	0.49
1:6:193:U:C4	1:6:195:G:C8	3.00	0.49
1:6:368:U:HO2'	1:6:603:U:HO2'	1.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:523:G:H5'	26:d4:60:PHE:O	2.13	0.49
1:6:859:A:C6	15:c3:73:ARG:HD3	2.48	0.49
7:s5:64:VAL:CG1	7:s5:89:ILE:HD11	2.43	0.49
11:s9:8:TYR:O	86:s9:201:OHX:N4	2.46	0.49
15:c3:84:ILE:H	15:c3:84:ILE:HD13	1.77	0.49
17:c5:64:LYS:HA	17:c5:73:PRO:HB3	1.95	0.49
24:d2:37:PHE:CE2	24:d2:103:ILE:HD11	2.48	0.49
36:5:244:G:C6	36:5:245:U:C4	3.01	0.49
36:5:286:U:H2'	36:5:287:G:C8	2.47	0.49
36:5:290:G:OP1	51:m5:98:LEU:HD13	2.13	0.49
36:5:1677:G:OP1	58:n2:100:THR:HA	2.12	0.49
36:5:2397:A:H8	36:5:2941:A:N1	2.10	0.49
50:m4:134:ALA:O	50:m4:136:ALA:N	2.43	0.49
52:m6:72:HIS:O	52:m6:74:ARG:HD3	2.12	0.49
53:m7:85:ALA:O	53:m7:89:LYS:HB2	2.13	0.49
61:n5:63:ILE:HA	61:n5:86:VAL:HG23	1.94	0.49
61:n5:73:MET:HE1	61:n5:141:TYR:CD1	2.48	0.49
62:n6:108:LYS:HD3	62:n6:108:LYS:HA	1.70	0.49
71:o5:54:VAL:O	71:o5:58:ILE:HG13	2.13	0.49
73:o7:21:ARG:HD2	73:o7:37:CYS:SG	2.53	0.49
78:q2:46:LYS:HD3	78:q2:54:THR:HB	1.95	0.49
1:2:494:U:O2'	1:2:495:C:O5'	2.30	0.49
1:2:830:U:O2	1:2:830:U:H2'	2.13	0.49
1:2:868:G:H1	1:2:960:U:H3	1.61	0.49
1:2:927:C:H2'	1:2:928:U:C6	2.48	0.49
2:S0:70:PRO:O	2:S0:95:ALA:N	2.30	0.49
2:S0:120:LEU:HD13	2:S0:142:PRO:HB2	1.93	0.49
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	1.94	0.49
6:S4:71:LYS:HB2	6:S4:75:LYS:O	2.12	0.49
8:S6:25:ARG:HG3	8:S6:28:PHE:CD1	2.47	0.49
8:S6:203:GLU:O	8:S6:206:ALA:N	2.45	0.49
9:S7:31:SER:HB2	9:S7:32:PRO:HD3	1.95	0.49
21:C9:84:LYS:HD2	21:C9:86:ARG:HG2	1.94	0.49
36:1:437:G:H8	36:1:437:G:O5'	1.96	0.49
36:1:789:A:H2'	36:1:790:U:C6	2.48	0.49
36:1:2713:U:H3'	78:Q2:9:LYS:O	2.12	0.49
36:1:2997:G:O4'	36:1:3396:U:H5'	2.13	0.49
36:1:3054:U:OP2	86:1:3884:OHX:N3	2.45	0.49
37:3:113:C:H2'	37:3:114:U:O4'	2.13	0.49
38:4:107:G:OP2	86:4:234:OHX:N2	2.46	0.49
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.27	0.49
72:O6:11:LEU:HD13	72:O6:11:LEU:HA	1.61	0.49
76:Q0:97:ARG:HG3	76:Q0:120:GLN:O	2.13	0.49
1:6:14:C:OP2	4:s2:206:THR:HG21	2.13	0.49
1:6:532:U:O2	26:d4:34:ASN:ND2	2.45	0.49
1:6:1481:C:P	21:c9:63:ARG:HH12	2.36	0.49
7:s5:23:VAL:O	7:s5:34:GLN:NE2	2.46	0.49
8:s6:64:LYS:NZ	8:s6:82:SER:O	2.45	0.49
15:c3:20:ARG:HG3	15:c3:20:ARG:HH11	1.77	0.49
15:c3:65:VAL:O	15:c3:67:THR:N	2.42	0.49
23:d1:32:VAL:HG12	23:d1:55:LEU:HB2	1.94	0.49
36:5:534:U:O2	56:n0:146:LYS:HA	2.13	0.49
36:5:874:U:H5'	36:5:2950:G:OP1	2.13	0.49
36:5:955:U:H2'	36:5:956:U:H6	1.76	0.49
36:5:1194:G:OP1	86:5:4014:OHX:N6	2.46	0.49
36:5:1242:G:H2'	36:5:1243:G:O4'	2.12	0.49
36:5:1322:U:O2	56:n0:108:GLN:NE2	2.44	0.49
36:5:1650:G:N7	86:5:4182:OHX:N3	2.61	0.49
36:5:1948:G:C2	36:5:1949:G:C8	3.01	0.49
36:5:2093:A:H3'	36:5:2093:A:N3	2.27	0.49
36:5:2255:A:H5'	36:5:2261:G:N2	2.28	0.49
36:5:3181:C:H2'	36:5:3182:G:C8	2.48	0.49
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.12	0.49
40:l3:117:ARG:NH2	40:l3:175:LYS:HG2	2.28	0.49
46:l9:137:SER:HB2	46:l9:143:GLU:HB3	1.95	0.49
53:m7:24:VAL:HG12	53:m7:86:LYS:CD	2.43	0.49
54:m8:111:ARG:O	54:m8:115:VAL:HG23	2.12	0.49
61:n5:141:TYR:O	61:n5:142:ILE:HG13	2.13	0.49
1:2:603:U:H2'	1:2:604:A:C8	2.47	0.48
1:2:916:U:H3	16:C4:41:ARG:HH22	1.60	0.48
1:2:1638:G:OP1	35:SM:94:HIS:HE1	1.96	0.48
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.13	0.48
4:S2:90:THR:C	4:S2:92:ALA:N	2.71	0.48
5:S3:113:LEU:HD21	5:S3:117:ARG:NH1	2.28	0.48
8:S6:160:ARG:CD	60:N4:84:GLY:HA3	2.43	0.48
9:S7:96:ARG:HH12	9:S7:128:ASP:CG	2.19	0.48
26:D4:62:THR:HB	26:D4:69:SER:OG	2.13	0.48
26:D4:104:SER:HB3	26:D4:107:GLN:HG3	1.95	0.48
36:1:656:A:H2'	36:1:657:A:C8	2.48	0.48
36:1:2568:C:O2'	36:1:2569:A:O4'	2.22	0.48
36:1:3369:G:N1	40:L3:380:MET:O	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.95	0.48
42:L5:34:LYS:HA	57:N1:27:LEU:HD11	1.95	0.48
42:L5:263:GLU:O	42:L5:266:ALA:HB3	2.13	0.48
44:L7:138:TYR:O	44:L7:237:ASN:ND2	2.47	0.48
47:M0:27:PRO:HD2	47:M0:122:PRO:HB2	1.94	0.48
48:M1:7:ASN:OD1	48:M1:10:ARG:HD2	2.12	0.48
48:M1:92:ARG:HG3	48:M1:95:ASN:ND2	2.26	0.48
49:M3:57:VAL:HG13	49:M3:147:ILE:HG23	1.94	0.48
1:6:74:U:N3	1:6:76:A:H5''	2.28	0.48
1:6:324:U:O2'	13:c1:80:MET:HE3	2.13	0.48
1:6:765:G:N7	11:s9:149:ARG:NE	2.61	0.48
1:6:1254:U:OP1	33:e1:143:LYS:HD3	2.12	0.48
1:6:1516:A:H5''	22:d0:58:LEU:HD22	1.95	0.48
3:s1:185:THR:O	3:s1:189:ILE:HD12	2.12	0.48
9:s7:15:GLU:HG3	9:s7:16:LEU:N	2.26	0.48
31:d9:46:LYS:O	31:d9:50:ILE:HG13	2.13	0.48
36:5:1307:G:H5''	52:m6:60:LYS:NZ	2.28	0.48
36:5:1525:G:O2'	36:5:1594:A:N1	2.42	0.48
40:l3:236:LYS:HG3	40:l3:237:LYS:H	1.78	0.48
47:m0:19:LYS:HG3	47:m0:26:VAL:HG22	1.95	0.48
71:o5:47:VAL:O	71:o5:51:ILE:HG13	2.12	0.48
1:2:67:A:C2	1:2:69:G:H1'	2.48	0.48
1:2:190:C:O2'	1:2:191:C:H5'	2.13	0.48
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.37	0.48
1:2:1424:A:H1'	4:S2:92:ALA:HB1	1.94	0.48
1:2:1435:G:N7	12:C0:25:LYS:NZ	2.44	0.48
3:S1:183:GLN:O	3:S1:187:LYS:N	2.46	0.48
5:S3:18:TYR:HD2	31:D9:49:ASP:O	1.96	0.48
6:S4:36:HIS:CD2	6:S4:85:GLY:HA3	2.47	0.48
8:S6:44:GLU:CD	8:S6:44:GLU:H	2.21	0.48
13:C1:122:ILE:H	13:C1:144:ALA:CB	2.25	0.48
36:1:191:U:H2'	36:1:192:C:C6	2.48	0.48
36:1:789:A:H2'	36:1:790:U:H6	1.78	0.48
36:1:1103:A:H2'	36:1:1103:A:N3	2.27	0.48
36:1:1818:U:H2'	36:1:1819:U:O4'	2.14	0.48
36:1:2108:C:O2'	36:1:3362:A:N6	2.46	0.48
86:1:4001:OHX:N3	86:1:4171:OHX:N1	2.61	0.48
45:L8:172:LYS:C	45:L8:174:GLY:H	2.21	0.48
46:L9:163:GLN:O	46:L9:165:CYS:N	2.46	0.48
50:M4:8:LYS:HE3	50:M4:10:SER:H	1.78	0.48
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:18:LEU:HA	73:O7:25:ARG:H	1.78	0.48
1:6:209:U:H2'	1:6:210:A:C8	2.47	0.48
1:6:246:G:C2	13:c1:40:LEU:HD22	2.48	0.48
1:6:325:G:O4'	13:c1:80:MET:HE2	2.13	0.48
1:6:407:A:H2'	1:6:408:C:C6	2.47	0.48
1:6:930:A:H2'	3:s1:114:VAL:HG11	1.95	0.48
1:6:1087:A:H2'	1:6:1088:A:C8	2.48	0.48
1:6:1553:G:O2'	31:d9:14:TYR:OH	2.31	0.48
1:6:1675:C:H1'	10:s8:32:GLN:NE2	2.28	0.48
7:s5:119:ASP:O	7:s5:123:VAL:HG23	2.12	0.48
13:c1:93:TYR:HB2	13:c1:100:TYR:HE1	1.78	0.48
22:d0:58:LEU:HD13	22:d0:88:LYS:HE3	1.95	0.48
22:d0:96:PRO:HG2	22:d0:99:ILE:HD11	1.95	0.48
24:d2:112:ASP:OD1	24:d2:114:GLU:HB3	2.13	0.48
27:d5:58:ARG:HA	27:d5:103:ARG:HB2	1.95	0.48
34:sR:16:HIS:CE1	34:sR:43:ILE:HG12	2.48	0.48
36:5:1334:U:H5'	44:l7:207:LEU:O	2.13	0.48
36:5:1450:G:OP1	86:5:4228:OHX:N4	2.46	0.48
36:5:2552:C:H5	66:o0:53:LYS:HE2	1.78	0.48
36:5:2898:G:O6	76:q0:125:LYS:NZ	2.46	0.48
40:l3:361:THR:HG23	40:l3:371:GLN:O	2.14	0.48
41:l4:84:ARG:O	41:l4:87:GLN:HG3	2.13	0.48
43:l6:40:LEU:HB3	43:l6:84:VAL:HG13	1.95	0.48
44:l7:22:THR:HA	44:l7:25:GLN:OE1	2.11	0.48
47:m0:143:SER:O	47:m0:143:SER:OG	2.31	0.48
47:m0:169:LYS:O	47:m0:170:LYS:HB2	2.13	0.48
49:m3:99:HIS:H	49:m3:99:HIS:CD2	2.30	0.48
63:n7:95:VAL:O	63:n7:100:THR:HG21	2.13	0.48
65:n9:23:LYS:HD2	65:n9:24:PRO:HG3	1.94	0.48
1:2:27:U:OP1	86:2:2085:OHX:N6	2.45	0.48
1:2:130:C:O2'	1:2:131:C:OP1	2.28	0.48
1:2:226:A:H2'	1:2:227:U:H5'	1.95	0.48
1:2:896:U:O2'	16:C4:38:THR:HG21	2.13	0.48
1:2:927:C:H1'	16:C4:125:SER:HB2	1.95	0.48
1:2:1003:A:C4	1:2:1005:A:C6	3.01	0.48
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.96	0.48
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	1.95	0.48
11:S9:17:ARG:HD2	11:S9:20:GLU:OE1	2.13	0.48
18:C6:82:ARG:HH22	18:C6:114:ARG:CB	2.27	0.48
25:D3:53:VAL:O	25:D3:73:ARG:O	2.31	0.48
36:1:155:G:H5''	36:1:156:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:564:G:H2'	36:1:565:U:C6	2.47	0.48
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.45	0.48
36:1:1662:G:N2	36:1:1788:C:O2	2.46	0.48
36:1:2320:A:C2	79:Q3:16:VAL:HG12	2.48	0.48
36:1:2505:U:H2'	36:1:2506:U:H6	1.77	0.48
36:1:2683:U:H2'	36:1:2684:C:C6	2.48	0.48
36:1:3082:C:H2'	36:1:3083:G:H8	1.75	0.48
46:L9:137:SER:HB3	46:L9:143:GLU:HB3	1.95	0.48
50:M4:72:LEU:HD22	50:M4:73:PRO:HD2	1.96	0.48
52:M6:46:GLU:HG2	52:M6:49:ARG:HG3	1.95	0.48
53:M7:30:ARG:HA	53:M7:119:VAL:HG11	1.94	0.48
70:O4:47:CYS:HB3	70:O4:84:CYS:SG	2.53	0.48
1:6:152:U:O2'	8:s6:15:THR:HG23	2.13	0.48
1:6:231:U:H2'	1:6:232:U:H5''	1.96	0.48
1:6:848:C:H2'	1:6:849:C:H6	1.76	0.48
1:6:1394:G:O2'	1:6:1395:G:H5'	2.13	0.48
3:s1:91:VAL:HG23	3:s1:96:LEU:HB3	1.94	0.48
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.46	0.48
20:c8:140:THR:O	20:c8:143:ARG:HD3	2.13	0.48
26:d4:52:LYS:C	26:d4:54:ALA:H	2.21	0.48
33:e1:88:PRO:HB2	33:e1:89:LYS:NZ	2.28	0.48
36:5:72:C:C2	36:5:74:G:H1'	2.48	0.48
36:5:93:C:H4'	36:5:94:G:H5''	1.95	0.48
36:5:712:G:H2'	36:5:713:U:C6	2.47	0.48
36:5:863:C:OP1	86:5:3917:OHX:N3	2.46	0.48
36:5:1229:G:O2'	82:p0:32:ASN:HA	2.14	0.48
36:5:1438:U:H2'	36:5:1439:U:C6	2.48	0.48
36:5:1578:C:H2'	36:5:1579:C:C6	2.47	0.48
36:5:1624:G:H2'	36:5:1625:A:H8	1.78	0.48
36:5:3160:U:H2'	36:5:3161:C:C6	2.48	0.48
38:8:68:G:H1	38:8:91:C:H42	1.61	0.48
43:l6:31:ARG:HH12	69:o3:107:ILE:HG22	1.78	0.48
49:m3:50:PRO:HB2	49:m3:140:SER:O	2.13	0.48
65:n9:39:PHE:O	65:n9:43:HIS:N	2.28	0.48
1:2:417:A:H4'	1:2:418:G:O5'	2.13	0.48
1:2:542:A:H2'	1:2:543:C:H5'	1.95	0.48
1:2:1067:C:H2'	1:2:1068:C:C6	2.44	0.48
1:2:1248:C:H2'	1:2:1249:U:C6	2.47	0.48
1:2:1401:A:OP1	19:C7:60:ARG:NH1	2.45	0.48
2:S0:26:ALA:HB1	2:S0:29:VAL:HG13	1.95	0.48
5:S3:114:ALA:HB3	5:S3:117:ARG:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:33:GLU:O	12:C0:34:GLU:HB2	2.14	0.48
13:C1:47:THR:OG1	13:C1:114:ALA:O	2.27	0.48
18:C6:83:GLN:HE22	18:C6:119:ALA:HA	1.78	0.48
19:C7:50:ILE:O	19:C7:54:THR:HG23	2.13	0.48
19:C7:57:LEU:O	19:C7:61:ILE:HG13	2.13	0.48
22:D0:26:LEU:HD11	22:D0:37:VAL:HG12	1.94	0.48
33:E1:100:LEU:HB3	33:E1:102:VAL:HG22	1.95	0.48
36:1:1114:U:H5''	64:N8:22:ILE:HD12	1.95	0.48
36:1:1615:C:OP1	86:1:4178:OHX:N3	2.46	0.48
36:1:2854:U:P	47:M0:3:ARG:HH22	2.37	0.48
41:L4:33:ASP:O	41:L4:37:THR:HG23	2.14	0.48
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.48	0.48
46:L9:84:LYS:O	46:L9:187:ILE:HB	2.13	0.48
47:M0:76:MET:HE1	47:M0:148:VAL:HG13	1.95	0.48
48:M1:95:ASN:OD1	48:M1:95:ASN:N	2.47	0.48
49:M3:163:GLY:HA2	64:N8:139:ARG:NH1	2.28	0.48
51:M5:60:VAL:O	51:M5:61:ILE:HD13	2.13	0.48
58:N2:34:ALA:O	58:N2:38:ILE:HG12	2.13	0.48
59:N3:74:MET:HE3	59:N3:102:ILE:CB	2.42	0.48
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.48	0.48
78:Q2:73:GLU:CD	78:Q2:80:ARG:HH21	2.20	0.48
1:6:419:G:N7	86:6:2117:OHX:N1	2.62	0.48
1:6:1596:C:O2'	1:6:1598:U:H5	1.96	0.48
2:s0:81:PHE:HB3	2:s0:170:ILE:HD12	1.95	0.48
4:s2:97:ARG:HB2	4:s2:118:ALA:O	2.13	0.48
9:s7:126:LEU:HD13	9:s7:173:TYR:CE2	2.49	0.48
10:s8:147:ALA:HA	10:s8:150:ALA:HB2	1.94	0.48
15:c3:31:GLU:CD	15:c3:31:GLU:H	2.21	0.48
15:c3:42:ARG:C	15:c3:44:GLY:H	2.21	0.48
25:d3:50:LYS:NZ	25:d3:101:GLU:OE1	2.37	0.48
36:5:123:A:C6	36:5:150:A:C5	3.01	0.48
36:5:353:G:N7	73:o7:55:ARG:NH1	2.60	0.48
36:5:598:A:OP1	44:l7:41:ARG:NH1	2.46	0.48
36:5:787:G:H2'	36:5:788:C:C6	2.49	0.48
36:5:869:G:H2'	36:5:870:G:O4'	2.13	0.48
36:5:1077:U:H2'	36:5:1078:U:C6	2.48	0.48
36:5:1688:U:H2'	36:5:1689:U:H6	1.78	0.48
36:5:1701:C:H2'	36:5:1702:U:O4'	2.14	0.48
86:5:4066:OHX:N3	86:5:4143:OHX:N6	2.61	0.48
39:l2:20:THR:HG22	39:l2:23:ARG:CZ	2.44	0.48
41:l4:58:HIS:O	41:l4:60:THR:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:m3:126:PHE:CD2	71:o5:115:LYS:HG2	2.48	0.48
53:m7:53:ASP:O	86:m7:206:OHX:N6	2.46	0.48
55:m9:60:LYS:O	55:m9:64:ARG:HG3	2.13	0.48
63:n7:16:GLY:O	63:n7:18:TYR:N	2.44	0.48
64:n8:19:LYS:HD2	64:n8:25:HIS:ND1	2.29	0.48
69:o3:49:ILE:HG23	69:o3:100:ILE:HG13	1.94	0.48
70:o4:81:CYS:SG	70:o4:84:CYS:SG	3.06	0.48
1:2:276:C:O2'	1:2:277:U:H5''	2.14	0.48
1:2:461:G:OP1	11:S9:2:PRO:HG2	2.13	0.48
1:2:581:U:OP1	35:SM:104:LYS:HE3	2.14	0.48
1:2:599:A:H5'	25:D3:123:LYS:HZ3	1.77	0.48
1:2:1332:C:H6	1:2:1332:C:O5'	1.96	0.48
1:2:1451:C:H2'	1:2:1452:U:H6	1.78	0.48
13:C1:139:VAL:O	13:C1:140:VAL:HB	2.13	0.48
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.95	0.48
22:D0:26:LEU:O	22:D0:89:ARG:N	2.46	0.48
22:D0:46:GLU:HG2	22:D0:52:LYS:HZ3	1.79	0.48
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.27	0.48
36:1:62:A:H2'	36:1:63:A:C8	2.48	0.48
36:1:290:G:H2'	36:1:291:C:C6	2.49	0.48
36:1:317:A:C2	36:1:318:A:C4	3.02	0.48
36:1:745:C:H5''	54:M8:145:ASN:ND2	2.28	0.48
36:1:1507:G:H5'	36:1:1507:G:N3	2.28	0.48
38:4:146:U:H2'	38:4:147:U:C6	2.49	0.48
39:L2:40:TYR:HA	39:L2:91:GLY:HA3	1.96	0.48
40:L3:62:ARG:HH12	40:L3:349:LYS:HZ2	1.61	0.48
40:L3:81:THR:HB	40:L3:205:VAL:HG21	1.95	0.48
40:L3:299:ASP:O	40:L3:300:ARG:HB2	2.13	0.48
42:L5:41:LYS:HB2	57:N1:68:THR:O	2.13	0.48
43:L6:47:PHE:O	43:L6:50:LYS:HB2	2.13	0.48
45:L8:172:LYS:HD3	72:O6:39:PHE:CE1	2.48	0.48
46:L9:124:ARG:HG2	46:L9:164:ILE:HD12	1.95	0.48
63:N7:13:VAL:HB	63:N7:18:TYR:O	2.13	0.48
63:N7:46:ILE:HD13	63:N7:68:ILE:CG2	2.42	0.48
72:O6:76:ARG:HA	72:O6:76:ARG:HE	1.78	0.48
1:6:330:G:OP2	10:s8:172:ARG:NH1	2.47	0.48
1:6:845:G:H2'	1:6:846:G:C8	2.44	0.48
1:6:1015:U:OP1	86:6:2055:OHX:N3	2.46	0.48
1:6:1360:A:H4'	21:c9:3:GLY:H	1.78	0.48
1:6:1370:U:H4'	1:6:1371:A:H4'	1.96	0.48
3:s1:146:GLN:O	3:s1:148:ASN:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:232:HIS:HB3	3:s1:233:GLY:H	1.46	0.48
4:s2:90:THR:O	4:s2:92:ALA:N	2.33	0.48
5:s3:37:VAL:HG12	5:s3:50:ILE:HA	1.96	0.48
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.13	0.48
18:c6:90:VAL:HG21	18:c6:106:LYS:HG3	1.95	0.48
36:5:1592:G:OP2	70:o4:37:LYS:NZ	2.44	0.48
36:5:1765:U:C5'	55:m9:43:LYS:HZ3	2.25	0.48
36:5:2201:G:N2	39:l2:224:THR:HG21	2.21	0.48
36:5:2610:G:O6	86:5:4174:OHX:N3	2.47	0.48
36:5:2696:A:H2'	36:5:2697:A:C8	2.47	0.48
36:5:2964:G:N7	86:5:3983:OHX:N6	2.61	0.48
45:l8:134:TYR:CD2	45:l8:190:VAL:HG11	2.48	0.48
48:m1:133:ARG:HB3	48:m1:134:PRO:HD2	1.96	0.48
48:m1:141:ARG:O	48:m1:145:LYS:HE2	2.13	0.48
52:m6:121:PRO:O	52:m6:124:LEU:HB2	2.12	0.48
53:m7:131:ARG:HH11	53:m7:131:ARG:HG3	1.79	0.48
58:n2:90:ARG:O	58:n2:91:ASP:HB2	2.12	0.48
83:p1:34:UNK:O	83:p1:36:UNK:N	2.46	0.48
1:2:446:A:N6	1:2:461:G:H21	2.12	0.48
1:2:763:G:C6	1:2:764:U:C4	3.02	0.48
1:2:1142:A:H2'	1:2:1143:A:C8	2.48	0.48
1:2:1432:U:H4'	1:2:1433:G:O5'	2.14	0.48
1:2:1765:A:H8	1:2:1768:G:H22	1.62	0.48
4:S2:47:ALA:O	4:S2:49:LYS:N	2.45	0.48
5:S3:58:VAL:O	5:S3:66:ILE:HG12	2.13	0.48
14:C2:26:ASP:O	14:C2:30:VAL:HG23	2.13	0.48
24:D2:97:ARG:HE	24:D2:97:ARG:HB3	1.36	0.48
25:D3:93:LEU:O	25:D3:93:LEU:HG	2.12	0.48
26:D4:9:THR:HG21	26:D4:48:TYR:OH	2.14	0.48
28:D6:18:VAL:HG21	28:D6:33:ASP:OD1	2.14	0.48
28:D6:24:VAL:HG21	28:D6:71:LEU:CD1	2.42	0.48
34:SR:81:LEU:HD21	34:SR:122:ILE:HD13	1.94	0.48
36:1:578:A:H5''	36:1:579:G:O5'	2.14	0.48
36:1:841:A:H5'	55:M9:125:LYS:O	2.12	0.48
36:1:1573:G:N2	36:1:1574:C:O2'	2.46	0.48
36:1:1653:G:H2'	36:1:1654:A:O4'	2.13	0.48
36:1:1934:G:N7	86:1:3882:OHX:N2	2.62	0.48
36:1:2379:U:H2'	36:1:2380:U:H6	1.79	0.48
36:1:2816:G:C8	36:1:2869:U:H3'	2.48	0.48
36:1:3103:A:OP2	86:1:4166:OHX:N1	2.46	0.48
36:1:3242:G:H21	36:1:3245:A:H5''	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:188:SER:O	52:M6:192:LYS:HG2	2.13	0.48
54:M8:157:PRO:O	54:M8:159:LYS:HG2	2.14	0.48
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	1.95	0.48
64:N8:32:ARG:HG2	64:N8:32:ARG:HH11	1.78	0.48
71:O5:92:LEU:HB3	71:O5:96:GLU:O	2.14	0.48
1:6:53:G:H2'	1:6:54:C:O4'	2.12	0.48
1:6:1714:A:C5	1:6:1715:G:C8	3.01	0.48
2:s0:157:ASP:O	2:s0:158:VAL:C	2.56	0.48
8:s6:2:LYS:HE2	8:s6:17:GLU:OE2	2.13	0.48
9:s7:133:THR:HG21	9:s7:159:VAL:HA	1.96	0.48
15:c3:19:SER:OG	15:c3:22:ALA:HB2	2.13	0.48
25:d3:52:ILE:HD12	25:d3:75:GLN:HB3	1.95	0.48
25:d3:67:ALA:O	25:d3:68:ILE:HD13	2.13	0.48
36:5:156:G:OP2	72:o6:25:LYS:HB3	2.14	0.48
36:5:289:A:C2	51:m5:93:LYS:HG3	2.49	0.48
36:5:3174:A:OP1	69:o3:97:SER:HB2	2.13	0.48
39:l2:222:ALA:HB1	39:l2:224:THR:HG22	1.95	0.48
41:l4:93:MET:HE2	41:l4:93:MET:N	2.26	0.48
44:l7:40:LYS:HE2	44:l7:170:GLU:OE1	2.12	0.48
49:m3:128:ARG:HG3	71:o5:114:ARG:NH2	2.28	0.48
58:n2:80:THR:HG22	58:n2:84:LEU:HD12	1.96	0.48
64:n8:28:HIS:ND1	64:n8:32:ARG:HG2	2.28	0.48
68:o2:32:TRP:CZ2	68:o2:52:GLN:HB3	2.48	0.48
71:o5:67:ARG:HG3	71:o5:80:LEU:HD13	1.96	0.48
72:o6:86:LYS:HE3	72:o6:90:MET:HE1	1.94	0.48
1:2:4:C:O2	1:2:20:G:N2	2.35	0.48
1:2:488:G:H4'	1:2:488:G:OP1	2.13	0.48
1:2:505:A:H2'	1:2:505:A:N3	2.28	0.48
1:2:1105:C:N4	25:D3:4:GLY:HA2	2.24	0.48
1:2:1179:G:O6	20:C8:139:LYS:HE3	2.14	0.48
1:2:1203:A:C5	1:2:1556:A:C2	3.01	0.48
1:2:1274:C:N3	35:SM:96:ARG:NH1	2.62	0.48
3:S1:36:SER:O	3:S1:38:PHE:N	2.39	0.48
18:C6:4:VAL:HB	18:C6:5:PRO:HD2	1.95	0.48
24:D2:82:LYS:C	24:D2:84:GLY:H	2.20	0.48
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.48	0.48
34:SR:117:LYS:H	34:SR:117:LYS:CD	2.27	0.48
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.48	0.48
36:1:1471:U:H2'	36:1:1472:U:C6	2.49	0.48
42:L5:153:THR:HG23	42:L5:160:PHE:HZ	1.79	0.48
43:L6:26:ARG:HB3	43:L6:27:PRO:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:182:LYS:HE2	64:N8:55:LYS:O	2.14	0.48
63:N7:20:GLY:HA3	63:N7:136:PHE:HE1	1.79	0.48
73:O7:28:HIS:ND1	73:O7:31:LYS:HB2	2.29	0.48
74:O8:17:ARG:O	74:O8:20:VAL:HG23	2.13	0.48
1:6:475:A:H2'	1:6:476:U:O4'	2.14	0.48
1:6:700:C:H2'	1:6:701:U:C6	2.49	0.48
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.95	0.48
6:s4:114:ILE:HD11	6:s4:119:ALA:HA	1.94	0.48
7:s5:37:GLN:CG	18:c6:53:LEU:HD13	2.44	0.48
9:s7:7:LYS:HE3	9:s7:7:LYS:HB2	1.70	0.48
15:c3:125:LEU:HD23	15:c3:125:LEU:HA	1.73	0.48
15:c3:148:ALA:O	86:c3:201:OHX:N4	2.46	0.48
26:d4:124:ARG:O	26:d4:127:LYS:HB3	2.13	0.48
36:5:291:C:OP1	51:m5:68:ARG:HG3	2.14	0.48
36:5:916:G:H5'	36:5:917:A:OP1	2.13	0.48
36:5:1783:U:H2'	36:5:1784:G:C8	2.49	0.48
36:5:2147:A:OP1	39:l2:200:ARG:HG3	2.13	0.48
36:5:2181:C:H5''	39:l2:193:ARG:NH2	2.28	0.48
36:5:2217:U:H2'	36:5:2218:G:H8	1.79	0.48
36:5:2370:G:H2'	36:5:2371:G:O4'	2.13	0.48
36:5:2988:C:P	52:m6:68:ARG:HH12	2.37	0.48
36:5:3074:G:OP1	86:5:4119:OHX:N4	2.47	0.48
36:5:3191:G:OP2	52:m6:172:ARG:HD2	2.14	0.48
86:5:3979:OHX:N6	86:5:4199:OHX:N5	2.62	0.48
38:8:104:A:C8	38:8:105:A:C8	3.01	0.48
40:l3:169:THR:CG2	40:l3:171:LEU:HG	2.44	0.48
41:l4:74:ILE:HG13	41:l4:75:PRO:HD2	1.95	0.48
41:l4:145:ILE:HD13	41:l4:150:LEU:HD12	1.95	0.48
44:l7:96:PRO:HG2	44:l7:99:PRO:HG2	1.96	0.48
47:m0:19:LYS:HB2	47:m0:26:VAL:HG21	1.95	0.48
47:m0:99:ILE:CD1	47:m0:101:LYS:HB2	2.44	0.48
55:m9:154:ALA:O	55:m9:156:ASN:N	2.36	0.48
57:n1:18:ASP:HB2	57:n1:21:LYS:HB2	1.95	0.48
64:n8:14:HIS:N	64:n8:14:HIS:ND1	2.60	0.48
1:2:186:C:H3'	1:2:187:G:H8	1.78	0.48
1:2:523:G:H5''	26:D4:59:GLY:O	2.13	0.48
2:S0:10:THR:OG1	2:S0:13:ASP:OD2	2.31	0.48
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.96	0.48
3:S1:51:SER:OG	3:S1:57:ALA:HB3	2.14	0.48
4:S2:99:LYS:HG3	4:S2:117:THR:HG22	1.94	0.48
8:S6:167:LYS:HD3	8:S6:169:TYR:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:174:ARG:HA	11:S9:174:ARG:HE	1.79	0.48
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.96	0.48
20:C8:92:ILE:O	20:C8:92:ILE:HD13	2.13	0.48
27:D5:55:PRO:C	27:D5:57:TYR:H	2.14	0.48
28:D6:85:ARG:H	28:D6:85:ARG:HE	1.62	0.48
34:SR:85:TRP:HA	34:SR:109:ASP:HA	1.96	0.48
36:1:911:C:N4	39:L2:3:ARG:HD3	2.29	0.48
36:1:1936:A:H2'	36:1:1937:U:O4'	2.13	0.48
36:1:2221:G:N2	36:1:2224:A:OP2	2.36	0.48
36:1:2552:C:C5	66:O0:53:LYS:HE3	2.48	0.48
36:1:2558:U:O2'	36:1:2559:U:H5'	2.13	0.48
36:1:2869:U:H5''	36:1:2870:C:OP2	2.14	0.48
36:1:3019:U:C4	36:1:3020:U:C4	3.02	0.48
40:L3:83:PRO:O	40:L3:165:GLN:NE2	2.46	0.48
45:L8:54:GLU:HG2	45:L8:57:ARG:HH21	1.78	0.48
54:M8:121:CYS:O	54:M8:122:ILE:HD13	2.14	0.48
71:O5:88:LEU:HD23	71:O5:88:LEU:HA	1.73	0.48
73:O7:31:LYS:O	73:O7:33:THR:HG23	2.13	0.48
16:c4:18:ARG:HG3	16:c4:82:LYS:HB3	1.96	0.48
22:d0:20:ILE:O	22:d0:94:GLU:HA	2.13	0.48
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	1.95	0.48
36:5:251:G:H5'	36:5:251:G:N3	2.29	0.48
36:5:1276:U:H2'	36:5:1277:C:C6	2.49	0.48
36:5:1484:U:O2	36:5:1875:G:N2	2.39	0.48
36:5:1659:U:O4	86:5:4198:OHX:N4	2.47	0.48
36:5:2546:C:H2'	36:5:2547:A:C8	2.48	0.48
86:5:4055:OHX:N5	86:5:4200:OHX:N2	2.61	0.48
40:l3:361:THR:HG22	40:l3:371:GLN:OE1	2.13	0.48
45:l8:130:TYR:CD2	45:l8:204:ARG:HG3	2.49	0.48
47:m0:191:LYS:O	47:m0:197:VAL:HG22	2.14	0.48
48:m1:100:GLY:HA3	48:m1:154:THR:HB	1.94	0.48
56:n0:1:MET:N	56:n0:32:SER:OG	2.44	0.48
69:o3:15:SER:OG	69:o3:16:TYR:N	2.47	0.48
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.95	0.48
1:2:710:U:H2'	1:2:711:U:H5'	1.94	0.48
1:2:883:C:H2'	1:2:884:A:H8	1.77	0.48
1:2:1029:U:O4	86:2:2167:OHX:N3	2.47	0.48
1:2:1332:C:O2'	5:S3:162:GLN:HB3	2.14	0.48
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.79	0.48
6:S4:50:ASN:O	6:S4:53:LYS:NZ	2.30	0.48
15:C3:18:TYR:CZ	24:D2:56:HIS:CE1	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:91:ASP:O	20:C8:93:THR:N	2.46	0.48
26:D4:3:ASP:C	26:D4:5:VAL:H	2.21	0.48
34:SR:22:SER:HB2	34:SR:70:ASP:HA	1.95	0.48
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.95	0.48
34:SR:133:VAL:HG23	34:SR:142:ALA:HB3	1.96	0.48
36:1:12:A:OP1	86:4:237:OHX:N6	2.47	0.48
36:1:2186:U:H2'	36:1:2187:G:O4'	2.13	0.48
36:1:2340:U:OP1	40:L3:236:LYS:HE3	2.14	0.48
36:1:2544:U:H2'	36:1:2545:C:H6	1.79	0.48
36:1:2756:C:O4'	57:N1:49:GLN:HG2	2.14	0.48
36:1:3067:C:H5''	55:M9:58:HIS:CD2	2.48	0.48
37:3:93:C:O2'	37:3:94:C:H5'	2.14	0.48
40:L3:35:ASP:OD2	40:L3:37:ARG:NH1	2.38	0.48
44:L7:26:VAL:HG23	44:L7:27:ALA:H	1.78	0.48
44:L7:120:THR:O	44:L7:124:LEU:HB2	2.14	0.48
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.94	0.48
47:M0:207:GLU:O	47:M0:209:ASN:N	2.46	0.48
49:M3:17:HIS:O	49:M3:20:GLU:HB2	2.14	0.48
52:M6:54:TYR:CE2	52:M6:58:LEU:HD22	2.49	0.48
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.14	0.48
66:O0:63:SER:OG	66:O0:65:THR:OG1	2.15	0.48
1:6:577:G:H3'	1:6:577:G:H8	1.77	0.48
1:6:1166:A:H2'	1:6:1167:G:O4'	2.13	0.48
1:6:1263:G:H2'	1:6:1264:G:O4'	2.14	0.48
1:6:1332:C:H4'	5:s3:203:PRO:HB3	1.96	0.48
1:6:1347:U:O2	1:6:1516:A:H2'	2.14	0.48
1:6:1729:C:O2'	10:s8:2:GLY:HA2	2.13	0.48
7:s5:87:CYS:SG	7:s5:92:ARG:HG3	2.54	0.48
11:s9:55:ALA:O	11:s9:59:LEU:HD12	2.14	0.48
26:d4:20:ARG:HE	26:d4:22:GLN:HG2	1.79	0.48
80:e0:61:SER:HB3	80:e0:63:GLN:N	2.29	0.48
36:5:252:U:H4'	36:5:253:A:C5'	2.43	0.48
36:5:618:C:H2'	36:5:619:A:C8	2.48	0.48
36:5:626:U:O4	86:5:3984:OHX:N4	2.46	0.48
36:5:1764:U:H3'	36:5:1765:U:H5''	1.96	0.48
36:5:1873:U:P	55:m9:56:THR:HG23	2.53	0.48
36:5:2953:U:H2'	36:5:2954:U:H2'	1.95	0.48
36:5:3054:U:OP2	86:5:3906:OHX:N6	2.47	0.48
86:5:4011:OHX:N6	86:5:4201:OHX:N2	2.62	0.48
37:7:73:C:H3'	37:7:73:C:H6	1.78	0.48
40:l3:76:VAL:HG12	40:l3:325:LYS:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:181:VAL:HG11	41:l4:224:GLY:HA3	1.96	0.48
41:l4:195:ARG:O	41:l4:196:ASN:HB2	2.14	0.48
42:l5:270:LYS:HE3	42:l5:273:ARG:HA	1.95	0.48
45:l8:89:GLU:HG2	45:l8:214:LEU:HD11	1.96	0.48
49:m3:44:ALA:O	49:m3:47:ALA:N	2.38	0.48
55:m9:150:GLN:HA	55:m9:153:LYS:HB3	1.94	0.48
1:2:61:A:H8	1:2:269:G:O2'	1.97	0.48
1:2:1253:U:H4'	33:E1:143:LYS:CA	2.44	0.48
1:2:1533:C:H4'	1:2:1539:G:H1	1.78	0.48
1:2:1767:G:OP1	1:2:1770:U:H4'	2.14	0.48
6:S4:185:GLY:H	6:S4:189:LEU:HB2	1.79	0.48
8:S6:122:GLU:OE1	8:S6:122:GLU:HA	2.13	0.48
34:SR:67:ILE:O	34:SR:84:SER:OG	2.24	0.48
34:SR:220:ILE:HD12	34:SR:263:PHE:HE2	1.78	0.48
36:1:353:G:N7	73:O7:55:ARG:HD3	2.29	0.48
36:1:980:A:H2'	36:1:981:U:C1'	2.44	0.48
36:1:2395:G:H4'	40:L3:258:ALA:HB1	1.95	0.48
36:1:3313:U:H4'	40:L3:173:GLN:OE1	2.13	0.48
37:3:64:A:N6	47:M0:202:LYS:HD3	2.29	0.48
42:L5:5:LYS:HA	42:L5:5:LYS:HD2	1.70	0.48
43:L6:171:PRO:C	43:L6:173:MET:H	2.22	0.48
45:L8:108:ARG:O	45:L8:112:GLU:HG3	2.13	0.48
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.96	0.48
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	1.95	0.48
57:N1:39:ILE:HD11	57:N1:102:ARG:HD3	1.95	0.48
1:6:139:C:O2'	1:6:176:C:O2	2.19	0.48
1:6:542:A:H1'	1:6:543:C:OP1	2.14	0.48
1:6:901:G:C2	1:6:902:G:C6	3.02	0.48
1:6:961:U:H2'	1:6:962:C:H6	1.79	0.48
1:6:1556:A:O2'	1:6:1560:U:OP2	2.26	0.48
1:6:1588:G:OP1	86:6:2124:OHX:N2	2.47	0.48
2:s0:32:HIS:CD2	23:d1:63:GLY:HA3	2.48	0.48
2:s0:157:ASP:OD2	2:s0:157:ASP:N	2.45	0.48
9:s7:28:GLU:HG2	9:s7:35:LYS:HA	1.95	0.48
11:s9:171:ARG:HH11	11:s9:174:ARG:HB3	1.79	0.48
12:c0:54:TYR:O	12:c0:69:THR:N	2.39	0.48
13:c1:110:HIS:HB3	13:c1:138:ASN:ND2	2.29	0.48
23:d1:14:PRO:HB2	23:d1:23:ILE:HG23	1.96	0.48
34:sR:115:ILE:HG13	34:sR:121:MET:O	2.14	0.48
36:5:1543:G:O6	86:5:4202:OHX:N1	2.46	0.48
36:5:1560:G:O2'	36:5:1561:G:OP1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1778:G:O2'	36:5:1780:G:OP2	2.31	0.48
36:5:2304:C:C5	36:5:2305:G:C6	3.01	0.48
36:5:2440:G:H2'	36:5:2441:A:C8	2.49	0.48
40:l3:81:THR:CG2	40:l3:81:THR:O	2.62	0.48
40:l3:83:PRO:O	40:l3:165:GLN:NE2	2.47	0.48
40:l3:214:MET:HB3	40:l3:214:MET:HE3	1.40	0.48
47:m0:85:PHE:CA	47:m0:140:THR:HG22	2.44	0.48
53:m7:41:LEU:HD23	53:m7:95:LEU:HD22	1.96	0.48
61:n5:48:SER:OG	61:n5:49:LYS:N	2.47	0.48
64:n8:128:ARG:HB3	72:o6:8:ALA:HB1	1.96	0.48
66:o0:78:GLY:HA2	66:o0:87:VAL:HG13	1.96	0.48
74:o8:12:LEU:HD21	74:o8:65:LEU:HD21	1.94	0.48
1:2:61:A:C8	1:2:269:G:O2'	2.65	0.47
1:2:97:C:H2'	1:2:98:U:C6	2.48	0.47
1:2:273:G:H1	1:2:283:U:H3	1.61	0.47
1:2:711:U:H1'	1:2:712:G:C8	2.49	0.47
1:2:968:U:H5''	1:2:1033:C:O2'	2.13	0.47
1:2:1220:C:OP1	12:C0:48:SER:OG	2.22	0.47
1:2:1595:U:N3	1:2:1600:A:C2	2.81	0.47
5:S3:127:MET:HE1	5:S3:133:GLY:N	2.27	0.47
19:C7:20:TYR:CZ	19:C7:38:ILE:HD11	2.49	0.47
19:C7:71:PHE:CE1	19:C7:73:LEU:HB3	2.49	0.47
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.46	0.47
25:D3:92:CYS:HG	25:D3:136:TRP:CD1	2.32	0.47
26:D4:60:PHE:HA	26:D4:70:VAL:O	2.14	0.47
26:D4:124:ARG:HB3	26:D4:124:ARG:HH11	1.79	0.47
29:D7:28:PRO:C	29:D7:29:ARG:HG2	2.38	0.47
36:1:942:U:O5'	36:1:942:U:H6	1.97	0.47
36:1:955:U:H2'	36:1:956:U:C6	2.50	0.47
36:1:1938:U:O4	86:1:3911:OHX:N2	2.47	0.47
36:1:3181:C:H2'	36:1:3182:G:O4'	2.14	0.47
39:L2:187:HIS:ND1	39:L2:190:ARG:NH2	2.61	0.47
40:L3:77:THR:OG1	40:L3:324:VAL:HG12	2.13	0.47
43:L6:30:LEU:HD21	43:L6:57:HIS:CE1	2.49	0.47
46:L9:47:LYS:NZ	50:M4:5:SER:H	2.12	0.47
48:M1:15:GLU:OE2	48:M1:132:ASN:ND2	2.47	0.47
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.95	0.47
49:M3:186:ARG:O	49:M3:190:LYS:HB3	2.13	0.47
68:O2:63:THR:O	68:O2:66:LEU:HG	2.14	0.47
71:O5:43:LYS:O	71:O5:46:THR:HG23	2.14	0.47
79:Q3:44:LYS:O	79:Q3:46:THR:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:492:A:H2'	1:6:493:U:H5''	1.96	0.47
5:s3:69:LEU:HD12	5:s3:69:LEU:HA	1.78	0.47
5:s3:224:ASP:OD1	34:sR:228:LYS:HG2	2.14	0.47
6:s4:100:ARG:NH2	6:s4:122:LYS:HA	2.29	0.47
6:s4:176:ASP:OD2	6:s4:176:ASP:N	2.47	0.47
15:c3:54:LEU:HB3	15:c3:60:VAL:CG1	2.44	0.47
20:c8:46:VAL:HG21	20:c8:73:MET:HG3	1.95	0.47
26:d4:20:ARG:HH11	26:d4:22:GLN:NE2	2.12	0.47
28:d6:9:GLY:O	28:d6:10:ARG:HG3	2.15	0.47
34:sR:49:GLY:HA2	34:sR:54:PHE:CD1	2.49	0.47
35:sM:36:ASP:OD1	48:m1:53:THR:OG1	2.29	0.47
36:5:107:A:OP1	49:m3:39:ARG:NH1	2.46	0.47
36:5:1724:U:O2	36:5:1725:C:C2	2.67	0.47
36:5:2213:A:H2	36:5:2601:A:N3	2.12	0.47
36:5:2883:U:OP2	86:5:4061:OHX:N4	2.46	0.47
36:5:2991:A:P	40:l3:20:LYS:HB2	2.54	0.47
36:5:3185:U:C6	52:m6:126:VAL:HG21	2.49	0.47
36:5:3343:G:N2	36:5:3362:A:H2	2.10	0.47
86:5:4055:OHX:N1	86:5:4200:OHX:N2	2.61	0.47
40:l3:35:ASP:OD1	40:l3:184:ASN:O	2.32	0.47
44:l7:47:ARG:NH1	44:l7:183:ASP:OD2	2.47	0.47
45:l8:122:LYS:C	45:l8:124:ASP:N	2.71	0.47
48:m1:17:LEU:HB3	48:m1:76:ALA:HB1	1.96	0.47
51:m5:96:ARG:HG2	51:m5:96:ARG:NH1	2.24	0.47
54:m8:109:GLY:O	54:m8:113:LYS:HB2	2.14	0.47
55:m9:68:GLN:NE2	55:m9:72:GLU:OE2	2.47	0.47
62:n6:112:ASP:HB2	62:n6:115:ARG:HB2	1.95	0.47
64:n8:2:PRO:HD2	64:n8:5:PHE:HD2	1.79	0.47
69:o3:57:LYS:HE3	69:o3:57:LYS:HB3	1.68	0.47
82:p0:36:GLN:NE2	82:p0:40:GLU:OE1	2.34	0.47
1:2:495:C:H3'	1:2:496:G:O4'	2.14	0.47
1:2:629:U:OP1	15:C3:127:ARG:NH2	2.47	0.47
1:2:1100:G:O2'	24:D2:76:SER:N	2.48	0.47
1:2:1125:A:C5	1:2:1126:G:H1'	2.49	0.47
1:2:1250:U:HO2'	1:2:1251:U:P	2.38	0.47
1:2:1572:G:H1'	7:S5:185:ARG:HH22	1.79	0.47
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.14	0.47
9:S7:173:TYR:CD1	9:S7:181:ILE:HB	2.49	0.47
18:C6:5:PRO:HA	18:C6:96:TYR:CZ	2.49	0.47
20:C8:23:ASP:O	20:C8:26:ILE:HG23	2.14	0.47
20:C8:123:ARG:HG3	20:C8:133:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:27:THR:HB	22:D0:88:LYS:CG	2.42	0.47
23:D1:64:GLU:O	23:D1:68:SER:HB2	2.14	0.47
28:D6:84:VAL:HG22	28:D6:85:ARG:N	2.28	0.47
36:1:92:G:H5'	36:1:93:C:O5'	2.13	0.47
36:1:199:A:C4	36:1:201:A:C8	3.03	0.47
36:1:1210:U:H2'	36:1:1211:U:H6	1.79	0.47
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.62	0.47
36:1:1445:U:H5''	36:1:1446:A:OP2	2.12	0.47
36:1:1480:G:H4'	36:1:1481:A:OP1	2.13	0.47
36:1:1599:G:OP1	86:1:4083:OHX:N5	2.47	0.47
36:1:1922:A:H2'	36:1:1923:C:O4'	2.15	0.47
36:1:2244:A:H5''	39:L2:243:THR:OG1	2.13	0.47
36:1:2616:C:C2'	36:1:2617:U:H5'	2.45	0.47
36:1:2812:C:H2'	36:1:2813:A:H8	1.79	0.47
36:1:2853:A:O3'	47:M0:64:ALA:HB2	2.14	0.47
36:1:3008:A:OP2	52:M6:74:ARG:NH1	2.47	0.47
48:M1:94:ARG:C	48:M1:96:PHE:N	2.72	0.47
55:M9:77:GLY:O	55:M9:81:ARG:HD3	2.13	0.47
55:M9:172:ARG:O	55:M9:176:ARG:HG2	2.14	0.47
62:N6:91:ASN:O	62:N6:93:ALA:N	2.47	0.47
63:N7:10:VAL:HG23	63:N7:86:THR:HA	1.94	0.47
63:N7:26:VAL:HG22	63:N7:42:LEU:O	2.15	0.47
67:O1:86:LYS:HD2	67:O1:86:LYS:HA	1.63	0.47
68:O2:4:LEU:CD2	68:O2:91:THR:HG23	2.43	0.47
68:O2:123:LYS:O	68:O2:126:LEU:HB2	2.14	0.47
1:6:74:U:H5''	1:6:75:U:OP2	2.14	0.47
1:6:1066:C:H2'	1:6:1067:C:H6	1.79	0.47
1:6:1158:C:H42	1:6:1163:A:H61	1.62	0.47
1:6:1203:A:OP2	86:6:2130:OHX:N4	2.48	0.47
1:6:1451:C:H2'	1:6:1452:U:H6	1.79	0.47
2:s0:66:ALA:HB1	23:d1:50:TYR:HD1	1.79	0.47
7:s5:164:PRO:HA	7:s5:167:ARG:HG3	1.96	0.47
36:5:618:C:O2'	36:5:621:A:N3	2.34	0.47
36:5:1831:U:P	61:n5:92:LYS:HG3	2.55	0.47
36:5:3128:G:OP2	86:5:4159:OHX:N3	2.47	0.47
38:8:77:A:H2'	38:8:78:G:O4'	2.14	0.47
42:l5:278:SER:C	42:l5:280:GLU:H	2.22	0.47
46:l9:17:THR:O	46:l9:17:THR:OG1	2.31	0.47
51:m5:183:THR:HA	51:m5:187:ARG:HB2	1.97	0.47
63:n7:46:ILE:HD11	63:n7:49:TYR:CG	2.49	0.47
1:2:623:A:OP1	86:2:2156:OHX:N2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1636:C:H4'	1:2:1637:C:H5''	1.96	0.47
6:S4:44:LEU:HG	6:S4:82:TYR:HB3	1.96	0.47
7:S5:92:ARG:HB3	7:S5:172:ILE:CD1	2.43	0.47
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.14	0.47
10:S8:9:HIS:CD2	10:S8:10:LYS:HB2	2.49	0.47
18:C6:143:ARG:HH22	35:SM:84:LYS:HZ1	1.58	0.47
19:C7:33:ARG:HH22	34:SR:85:TRP:HB3	1.80	0.47
24:D2:76:SER:OG	25:D3:7:ARG:HG2	2.14	0.47
30:D8:8:THR:HB	30:D8:56:LEU:HB2	1.95	0.47
36:1:132:C:H2'	36:1:133:U:H5''	1.95	0.47
36:1:407:A:C2	38:4:17:A:H1'	2.48	0.47
36:1:1018:G:H8	36:1:1018:G:OP2	1.97	0.47
36:1:1809:A:H2'	36:1:1810:A:O4'	2.15	0.47
36:1:2601:A:H2'	36:1:2602:G:H8	1.79	0.47
36:1:3087:A:H5''	40:L3:365:PHE:CD1	2.49	0.47
36:1:3174:A:OP1	69:O3:97:SER:OG	2.21	0.47
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.49	0.47
38:4:52:A:H4'	75:O9:19:GLN:HA	1.95	0.47
43:L6:54:TYR:CE2	43:L6:63:LEU:HD22	2.49	0.47
47:M0:178:ARG:H	47:M0:178:ARG:HG2	1.43	0.47
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.49	0.47
55:M9:122:VAL:O	55:M9:126:GLU:HB2	2.14	0.47
64:N8:86:LYS:O	64:N8:89:GLN:HB2	2.14	0.47
64:N8:128:ARG:HG2	72:O6:8:ALA:HB2	1.95	0.47
1:6:219:A:O2'	1:6:220:A:O5'	2.32	0.47
5:s3:70:THR:CG2	5:s3:86:LEU:HB2	2.44	0.47
7:s5:41:LYS:HE2	7:s5:41:LYS:HB3	1.65	0.47
18:c6:38:LEU:HD21	21:c9:10:ALA:HB2	1.96	0.47
20:c8:129:TRP:O	35:sM:68:ARG:HB2	2.14	0.47
35:sM:54:PRO:HB2	35:sM:59:GLY:HA2	1.96	0.47
36:5:570:A:H2'	36:5:571:U:O4'	2.14	0.47
36:5:619:A:OP1	69:o3:60:ARG:NH2	2.47	0.47
36:5:2128:C:OP1	86:5:4090:OHX:N3	2.47	0.47
36:5:3362:A:C2	36:5:3363:U:C2	3.01	0.47
86:5:4066:OHX:N5	86:5:4143:OHX:N6	2.62	0.47
38:8:104:A:C3'	38:8:105:A:H5''	2.43	0.47
40:l3:76:VAL:HG21	40:l3:323:MET:HE3	1.95	0.47
40:l3:229:VAL:HG21	40:l3:249:VAL:CG1	2.44	0.47
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.49	0.47
43:l6:5:LYS:HA	43:l6:5:LYS:HD2	1.59	0.47
45:l8:190:VAL:O	45:l8:190:VAL:HG12	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:5:GLN:C	46:l9:6:THR:HG22	2.39	0.47
47:m0:75:TYR:CE2	47:m0:79:VAL:HG21	2.49	0.47
48:m1:47:GLN:OE1	48:m1:64:LYS:HD3	2.15	0.47
52:m6:168:TYR:HE1	52:m6:172:ARG:NH1	2.13	0.47
64:n8:28:HIS:CE1	64:n8:32:ARG:HG2	2.49	0.47
73:o7:25:ARG:HE	75:o9:51:ILE:HG13	1.80	0.47
1:2:103:A:H4'	1:2:104:A:OP2	2.13	0.47
1:2:426:G:N2	1:2:427:C:C2	2.81	0.47
1:2:1459:C:N4	20:C8:139:LYS:HG3	2.29	0.47
1:2:1488:G:H5'	1:2:1489:U:OP1	2.13	0.47
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.50	0.47
7:S5:65:ARG:HA	7:S5:66:GLN:C	2.39	0.47
8:S6:122:GLU:HB3	8:S6:123:GLY:H	1.60	0.47
11:S9:133:HIS:CD2	11:S9:162:SER:HB2	2.49	0.47
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.79	0.47
26:D4:14:SER:HA	26:D4:21:LYS:HG3	1.97	0.47
28:D6:70:LYS:C	28:D6:71:LEU:HD22	2.40	0.47
34:SR:132:LYS:HG2	34:SR:143:THR:HG23	1.96	0.47
36:1:8:C:H2'	36:1:9:U:O4'	2.15	0.47
36:1:59:G:H2'	38:4:33:A:O2'	2.14	0.47
36:1:298:U:H5''	36:1:299:G:H5'	1.96	0.47
36:1:315:C:OP2	72:O6:28:TYR:OH	2.29	0.47
36:1:1260:A:H1'	36:1:1280:C:H1'	1.96	0.47
36:1:2278:C:OP1	86:1:3954:OHX:N3	2.48	0.47
36:1:2767:U:O4	86:1:4036:OHX:N6	2.48	0.47
36:1:3035:A:OP2	86:1:4073:OHX:N4	2.48	0.47
36:1:3073:A:H2'	36:1:3074:G:O4'	2.15	0.47
38:4:78:G:H2'	38:4:79:A:C8	2.49	0.47
38:4:108:C:H2'	38:4:109:A:O4'	2.14	0.47
38:4:124:G:OP2	86:4:232:OHX:N4	2.48	0.47
41:L4:8:VAL:CG2	41:L4:20:LEU:HD11	2.45	0.47
44:L7:36:ALA:HA	44:L7:39:GLU:HG3	1.95	0.47
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.49	0.47
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.15	0.47
48:M1:94:ARG:O	48:M1:96:PHE:N	2.46	0.47
49:M3:126:PHE:CD1	49:M3:133:PRO:HG2	2.49	0.47
56:N0:17:GLU:O	56:N0:20:PRO:HD3	2.14	0.47
62:N6:60:ARG:HD3	62:N6:60:ARG:HA	1.57	0.47
1:6:83:G:OP2	86:6:2097:OHX:N4	2.47	0.47
1:6:276:C:H1'	1:6:277:U:H5	1.80	0.47
1:6:369:A:O2'	1:6:371:G:OP2	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:585:A:H2'	1:6:586:G:C8	2.49	0.47
1:6:934:C:C6	28:d6:11:ASN:HB3	2.50	0.47
1:6:1579:U:H2'	1:6:1580:C:C6	2.49	0.47
1:6:1777:G:O2'	1:6:1778:G:H5'	2.14	0.47
4:s2:179:VAL:HG21	4:s2:197:TYR:HD1	1.78	0.47
7:s5:51:VAL:HG13	7:s5:131:GLN:HB2	1.96	0.47
10:s8:84:HIS:NE2	10:s8:90:LEU:HD13	2.30	0.47
11:s9:78:ARG:HG3	11:s9:79:ARG:N	2.28	0.47
11:s9:149:ARG:HG2	11:s9:149:ARG:NH1	2.16	0.47
16:c4:103:ARG:NH2	28:d6:48:ALA:O	2.47	0.47
36:5:173:G:H1'	36:5:174:C:H5'	1.96	0.47
36:5:189:G:H2'	36:5:224:C:OP1	2.13	0.47
36:5:956:U:H2'	36:5:957:C:C6	2.49	0.47
36:5:1690:C:H4'	55:m9:57:VAL:HG22	1.97	0.47
36:5:1802:C:H6	36:5:1802:C:O5'	1.97	0.47
36:5:2397:A:H2'	36:5:2873:U:O4'	2.14	0.47
36:5:2520:A:H2'	36:5:2521:U:H6	1.78	0.47
36:5:2533:G:N2	36:5:2546:C:O2	2.37	0.47
36:5:2568:C:O2'	36:5:2569:A:O5'	2.29	0.47
37:7:8:G:C6	37:7:9:C:C4	3.02	0.47
40:l3:296:THR:HB	40:l3:299:ASP:H	1.79	0.47
45:l8:111:LYS:HD2	45:l8:112:GLU:N	2.29	0.47
45:l8:123:GLN:C	45:l8:125:ALA:H	2.23	0.47
48:m1:95:ASN:O	48:m1:102:PHE:HA	2.13	0.47
52:m6:85:ARG:HD3	52:m6:90:HIS:CG	2.49	0.47
63:n7:50:PRO:HD3	63:n7:68:ILE:HG12	1.95	0.47
63:n7:55:LYS:C	63:n7:57:HIS:H	2.22	0.47
66:o0:22:LYS:HB2	66:o0:94:GLU:HB2	1.97	0.47
1:2:902:G:O5'	1:2:902:G:H8	1.96	0.47
3:S1:97:LEU:HD13	3:S1:98:THR:N	2.30	0.47
5:S3:68:GLU:OE2	12:C0:67:THR:HG23	2.14	0.47
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.96	0.47
20:C8:112:ASP:O	20:C8:115:ARG:N	2.47	0.47
34:SR:164:ASP:C	34:SR:166:SER:H	2.22	0.47
36:1:385:A:H2'	36:1:386:A:C8	2.49	0.47
36:1:1563:C:O2	36:1:1577:G:N2	2.32	0.47
36:1:2623:G:H2'	36:1:2624:G:H8	1.79	0.47
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.50	0.47
36:1:3393:U:H2'	36:1:3394:U:C6	2.50	0.47
36:1:3393:U:H2'	36:1:3394:U:H6	1.79	0.47
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:55:PHE:CE2	42:L5:158:ARG:HG3	2.49	0.47
51:M5:144:ARG:O	51:M5:145:ASP:HB3	2.14	0.47
1:6:992:A:H5'	1:6:992:A:H8	1.79	0.47
1:6:1175:U:H2'	1:6:1176:G:C8	2.50	0.47
1:6:1219:A:N3	12:c0:51:SER:OG	2.46	0.47
1:6:1268:G:H1'	1:6:1448:G:H5''	1.97	0.47
1:6:1393:C:H2'	1:6:1394:G:C8	2.49	0.47
1:6:1533:C:H4'	1:6:1539:G:C6	2.50	0.47
1:6:1793:G:O2'	28:d6:5:ARG:NH2	2.46	0.47
5:s3:17:PHE:O	5:s3:20:GLU:N	2.47	0.47
11:s9:127:VAL:HG12	11:s9:131:GLN:NE2	2.30	0.47
14:c2:87:PRO:HA	14:c2:140:PHE:HE1	1.79	0.47
16:c4:42:VAL:HB	16:c4:67:VAL:HG23	1.97	0.47
17:c5:29:SER:OG	17:c5:32:ASP:OD2	2.33	0.47
36:5:529:A:O2'	36:5:530:G:H5'	2.14	0.47
36:5:767:U:H1'	36:5:768:C:C6	2.50	0.47
36:5:1081:U:O2'	36:5:1082:U:O5'	2.32	0.47
36:5:1152:G:N2	36:5:1199:C:N4	2.61	0.47
40:l3:35:ASP:HA	40:l3:184:ASN:ND2	2.30	0.47
40:l3:205:VAL:C	40:l3:207:SER:N	2.70	0.47
41:l4:99:MET:HE3	41:l4:103:THR:N	2.29	0.47
44:l7:83:LEU:HD22	44:l7:84:VAL:N	2.30	0.47
46:l9:1:MET:HE1	56:n0:139:TYR:HA	1.95	0.47
48:m1:53:THR:HG23	48:m1:60:ARG:HA	1.96	0.47
48:m1:166:LYS:C	48:m1:168:ASP:H	2.23	0.47
50:m4:48:GLY:HA3	50:m4:53:VAL:HG13	1.95	0.47
52:m6:8:VAL:HA	52:m6:34:VAL:O	2.15	0.47
54:m8:133:LYS:HB2	54:m8:135:GLN:HE22	1.80	0.47
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.13	0.47
63:n7:84:ARG:HB3	66:o0:61:MET:HE1	1.95	0.47
66:o0:71:GLN:OE1	66:o0:71:GLN:HA	2.14	0.47
69:o3:75:HIS:HB2	69:o3:82:ARG:HG3	1.96	0.47
72:o6:25:LYS:HB2	72:o6:28:TYR:CD2	2.50	0.47
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.13	0.47
1:2:226:A:C6	1:2:227:U:N3	2.82	0.47
1:2:882:U:H2'	1:2:883:C:C6	2.50	0.47
1:2:1460:A:O3'	35:SM:72:ARG:NH2	2.48	0.47
2:S0:27:ARG:HA	2:S0:44:GLY:O	2.14	0.47
3:S1:41:ARG:NH1	3:S1:232:HIS:HB3	2.30	0.47
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.96	0.47
6:S4:114:ILE:HB	6:S4:118:GLU:OE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:81:VAL:H	10:S8:102:VAL:HA	1.79	0.47
11:S9:135:ALA:HB2	11:S9:159:ALA:HB2	1.96	0.47
13:C1:93:TYR:HB2	13:C1:100:TYR:CD1	2.49	0.47
36:1:726:G:H8	36:1:726:G:H5'	1.78	0.47
36:1:1481:A:OP1	36:1:1481:A:C4'	2.60	0.47
36:1:2443:A:O2'	36:1:2444:C:OP2	2.27	0.47
37:3:39:C:N3	48:M1:70:THR:HG23	2.29	0.47
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	1.79	0.47
40:L3:284:ARG:HB2	40:L3:284:ARG:NH1	2.27	0.47
43:L6:166:LYS:HA	43:L6:166:LYS:HD3	1.68	0.47
49:M3:180:ARG:HG2	49:M3:180:ARG:HH11	1.80	0.47
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	1.97	0.47
63:N7:14:VAL:HG22	70:O4:86:LYS:HG2	1.96	0.47
1:6:40:A:H2'	1:6:41:A:O4'	2.14	0.47
1:6:351:C:H4'	1:6:352:A:OP2	2.14	0.47
1:6:647:G:H22	1:6:687:G:H22	1.62	0.47
86:6:2059:OHX:N5	86:6:2146:OHX:N6	2.63	0.47
3:s1:93:GLY:C	3:s1:95:ASN:H	2.22	0.47
5:s3:116:ARG:NH1	5:s3:116:ARG:HB2	2.29	0.47
9:s7:154:LEU:HD11	9:s7:183:PHE:CD1	2.50	0.47
20:c8:23:ASP:HB3	20:c8:26:ILE:HD11	1.96	0.47
20:c8:143:ARG:C	20:c8:145:ARG:H	2.22	0.47
28:d6:10:ARG:CB	28:d6:10:ARG:HH21	2.28	0.47
36:5:314:U:H2'	36:5:315:C:C6	2.50	0.47
36:5:414:U:O4	86:5:3938:OHX:N6	2.48	0.47
36:5:619:A:OP2	36:5:619:A:H8	1.98	0.47
36:5:864:G:OP2	86:5:3917:OHX:N4	2.48	0.47
36:5:1152:G:O5'	36:5:1152:G:C8	2.68	0.47
36:5:1155:C:H2'	36:5:1156:C:H6	1.79	0.47
36:5:1565:G:N2	36:5:1566:A:H1'	2.30	0.47
36:5:1613:A:OP1	74:o8:2:ALA:N	2.48	0.47
36:5:2227:C:C2'	36:5:2228:A:H5''	2.44	0.47
36:5:2355:G:H4'	53:m7:139:TYR:CZ	2.49	0.47
36:5:2970:C:H4'	36:5:2971:A:N1	2.29	0.47
36:5:3041:U:H2'	36:5:3042:U:C6	2.50	0.47
36:5:3041:U:H2'	36:5:3042:U:H6	1.80	0.47
36:5:3135:U:OP1	52:m6:148:LYS:HE2	2.15	0.47
40:l3:21:ARG:HD3	40:l3:269:GLN:OE1	2.14	0.47
40:l3:212:ASN:HB3	40:l3:281:LYS:HZ2	1.79	0.47
43:l6:166:LYS:HE2	69:o3:4:SER:OG	2.14	0.47
45:l8:113:ALA:C	45:l8:115:ALA:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:216:TYR:O	86:m0:301:OHX:N4	2.47	0.47
49:m3:60:ALA:HA	49:m3:61:PRO:HD3	1.69	0.47
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.15	0.47
63:n7:23:VAL:HA	63:n7:45:GLY:HA3	1.97	0.47
68:o2:20:HIS:O	68:o2:21:HIS:HB2	2.15	0.47
72:o6:89:GLU:O	72:o6:93:ILE:HG13	2.15	0.47
1:2:74:U:H1'	1:2:75:U:H5''	1.96	0.47
1:2:310:C:H4'	25:D3:33:LEU:HD23	1.97	0.47
1:2:327:U:H2'	1:2:328:A:C8	2.50	0.47
1:2:354:C:H5''	10:S8:16:ALA:HB2	1.96	0.47
1:2:463:U:C2	1:2:464:A:C8	3.03	0.47
1:2:577:G:N1	35:SM:99:LYS:O	2.44	0.47
1:2:888:U:H1'	16:C4:126:THR:HG21	1.96	0.47
1:2:1085:G:N2	1:2:1088:A:OP2	2.37	0.47
1:2:1158:C:OP2	86:2:2170:OHX:N5	2.47	0.47
1:2:1388:A:C5	1:2:1411:A:C6	3.02	0.47
1:2:1765:A:H8	1:2:1768:G:N2	2.13	0.47
2:S0:125:ASP:OD1	2:S0:127:ARG:HB3	2.13	0.47
4:S2:140:ARG:HH12	4:S2:228:ASN:HD21	1.62	0.47
7:S5:94:THR:HB	7:S5:114:ILE:HG13	1.97	0.47
8:S6:175:ILE:H	8:S6:175:ILE:HG12	1.49	0.47
13:C1:57:LYS:HB2	13:C1:110:HIS:CE1	2.50	0.47
13:C1:99:ARG:HD3	25:D3:8:GLY:O	2.14	0.47
18:C6:5:PRO:HG2	18:C6:24:ALA:CB	2.44	0.47
18:C6:47:LYS:HZ1	18:C6:114:ARG:NE	2.13	0.47
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.97	0.47
22:D0:67:THR:HG22	22:D0:68:ARG:O	2.15	0.47
25:D3:53:VAL:O	25:D3:74:VAL:HA	2.14	0.47
28:D6:38:ARG:HE	28:D6:83:ILE:HG13	1.79	0.47
34:SR:307:ASP:OD2	34:SR:311:ARG:NH2	2.45	0.47
36:1:40:A:N7	64:N8:29:PRO:O	2.48	0.47
36:1:436:A:H8	36:1:436:A:O5'	1.97	0.47
36:1:530:G:N7	86:1:3917:OHX:N6	2.63	0.47
36:1:541:U:O4	86:1:4192:OHX:N2	2.48	0.47
36:1:915:A:C5	36:1:917:A:H1'	2.50	0.47
36:1:1815:U:O2'	36:1:1816:A:P	2.73	0.47
36:1:2190:U:C4	36:1:2191:U:C4	3.03	0.47
36:1:2630:C:H1'	36:1:2758:A:N3	2.30	0.47
36:1:2736:A:H1'	57:N1:90:ASN:HD22	1.80	0.47
36:1:2842:U:O2'	36:1:2843:U:OP1	2.31	0.47
36:1:3026:G:O6	86:1:3937:OHX:N4	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3186:A:O2'	46:L9:42:ASP:HA	2.15	0.47
36:1:3375:A:O2'	36:1:3378:C:H5'	2.14	0.47
86:1:3913:OHX:N5	51:M5:204:LYS:O	2.48	0.47
86:1:3969:OHX:N5	86:1:4155:OHX:N1	2.63	0.47
39:L2:116:VAL:HG22	39:L2:126:LEU:HD12	1.96	0.47
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.37	0.47
40:L3:308:MET:HE3	40:L3:308:MET:HB3	1.72	0.47
41:L4:193:LYS:HE3	41:L4:193:LYS:HB3	1.54	0.47
41:L4:219:LEU:O	41:L4:222:VAL:HG13	2.14	0.47
42:L5:182:GLY:HA2	42:L5:194:LEU:HD13	1.96	0.47
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.15	0.47
44:L7:80:GLN:OE1	57:N1:136:ARG:HG2	2.14	0.47
44:L7:88:ARG:CZ	44:L7:103:LEU:HD13	2.45	0.47
49:M3:126:PHE:HZ	49:M3:135:ALA:HB3	1.79	0.47
49:M3:163:GLY:HA2	64:N8:139:ARG:HH12	1.79	0.47
50:M4:14:LEU:H	50:M4:19:ARG:NH1	2.12	0.47
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.97	0.47
57:N1:14:MET:HE3	57:N1:58:GLN:CB	2.45	0.47
58:N2:32:SER:HA	58:N2:35:LYS:HB3	1.97	0.47
61:N5:49:LYS:HB2	61:N5:49:LYS:HE2	1.80	0.47
63:N7:45:GLY:HA3	63:N7:71:PHE:CE2	2.50	0.47
64:N8:73:LEU:HB2	64:N8:109:TYR:CD2	2.49	0.47
71:O5:68:GLN:C	71:O5:70:TYR:N	2.73	0.47
75:O9:12:LYS:HB3	75:O9:12:LYS:HE2	1.48	0.47
1:6:114:C:H6	1:6:114:C:H5'	1.80	0.47
1:6:156:A:H2'	1:6:157:A:O4'	2.15	0.47
1:6:914:G:H5'	1:6:914:G:C8	2.50	0.47
1:6:1393:C:H2'	1:6:1394:G:H8	1.80	0.47
1:6:1489:U:H5'	1:6:1494:C:H1'	1.96	0.47
1:6:1673:G:H8	1:6:1673:G:O5'	1.97	0.47
1:6:1685:G:H1	1:6:1716:C:H42	1.61	0.47
2:s0:183:ARG:HA	2:s0:188:LEU:HB2	1.97	0.47
3:s1:113:MET:HE3	3:s1:209:ASN:ND2	2.30	0.47
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	1.96	0.47
7:s5:43:PHE:H	7:s5:46:TRP:H	1.62	0.47
9:s7:39:ARG:CZ	55:m9:189:ALA:HB2	2.44	0.47
10:s8:166:TYR:O	10:s8:183:ILE:HD12	2.14	0.47
10:s8:176:SER:HB2	10:s8:178:ARG:HG2	1.97	0.47
13:c1:27:THR:HB	13:c1:28:SER:H	1.50	0.47
16:c4:84:ARG:HG3	16:c4:85:ALA:O	2.15	0.47
21:c9:30:VAL:HG12	21:c9:54:PHE:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:81:VAL:HG12	24:d2:82:LYS:O	2.14	0.47
25:d3:90:ASP:OD2	80:e0:12:GLY:HA2	2.15	0.47
34:sR:171:SER:OG	34:sR:181:TRP:NE1	2.35	0.47
34:sR:296:ALA:O	34:sR:298:GLY:N	2.47	0.47
36:5:22:G:O2'	38:8:40:A:N1	2.45	0.47
36:5:734:C:H2'	36:5:735:A:O4'	2.15	0.47
36:5:1093:A:OP1	36:5:1093:A:H4'	2.15	0.47
36:5:1730:G:N7	66:o0:28:LYS:HB2	2.29	0.47
36:5:1828:A:H2'	36:5:1829:G:C8	2.49	0.47
36:5:1936:A:H2'	36:5:1937:U:O4'	2.15	0.47
36:5:2724:U:OP1	57:n1:78:LYS:HE2	2.14	0.47
36:5:2830:G:H1'	36:5:2861:U:C2	2.49	0.47
36:5:2991:A:OP1	40:l3:21:ARG:HG3	2.14	0.47
36:5:3165:A:N6	36:5:3285:C:H42	2.10	0.47
36:5:3362:A:H2'	36:5:3363:U:O4'	2.14	0.47
86:5:4002:OHX:N6	44:l7:217:PRO:O	2.48	0.47
86:5:4011:OHX:N3	86:5:4201:OHX:N5	2.62	0.47
86:5:4090:OHX:N5	86:q1:102:OHX:N3	2.63	0.47
38:8:102:U:O4	73:o7:65:ARG:NH2	2.45	0.47
40:l3:81:THR:O	40:l3:81:THR:HG23	2.15	0.47
40:l3:139:GLN:OE1	40:l3:142:ALA:HB3	2.14	0.47
41:l4:10:SER:OG	41:l4:14:GLU:HG3	2.14	0.47
41:l4:304:GLN:C	41:l4:306:THR:H	2.23	0.47
42:l5:85:ARG:HH12	42:l5:254:LYS:H	1.63	0.47
47:m0:12:GLN:HA	47:m0:59:GLN:NE2	2.30	0.47
56:n0:102:ALA:O	56:n0:103:VAL:C	2.58	0.47
60:n4:97:LYS:O	60:n4:100:VAL:HG23	2.15	0.47
63:n7:128:GLN:O	63:n7:131:PHE:N	2.27	0.47
69:o3:6:ARG:HG3	69:o3:8:TYR:CD1	2.49	0.47
69:o3:85:PHE:CZ	69:o3:89:LEU:HD11	2.50	0.47
71:o5:49:LYS:O	71:o5:52:ALA:N	2.48	0.47
1:2:346:G:H5'	13:C1:79:LYS:HE2	1.97	0.47
1:2:694:U:H3'	1:2:695:U:H6	1.76	0.47
1:2:1497:U:C4	1:2:1511:U:O2	2.67	0.47
1:2:1497:U:OP2	86:2:2032:OHX:N1	2.47	0.47
2:S0:188:LEU:HB3	2:S0:189:VAL:H	1.46	0.47
5:S3:70:THR:O	5:S3:74:GLN:N	2.35	0.47
8:S6:167:LYS:HD3	8:S6:169:TYR:CE2	2.50	0.47
8:S6:196:ARG:NH1	8:S6:196:ARG:HB2	2.29	0.47
10:S8:48:THR:HG21	10:S8:54:LYS:HB2	1.96	0.47
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:21:LYS:HA	22:D0:94:GLU:HG2	1.97	0.47
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.96	0.47
23:D1:17:CYS:HA	23:D1:24:ILE:HD11	1.97	0.47
25:D3:92:CYS:C	25:D3:94:ASN:N	2.72	0.47
26:D4:86:GLU:OE1	26:D4:90:ARG:HD2	2.15	0.47
34:SR:69:GLN:O	34:SR:83:ALA:HB3	2.15	0.47
36:1:627:U:H2'	36:1:628:A:C8	2.50	0.47
36:1:1063:G:N7	36:1:1097:G:H2'	2.29	0.47
36:1:1216:C:H6	36:1:1216:C:C5'	2.27	0.47
36:1:1317:A:O2'	36:1:1318:A:H3'	2.14	0.47
36:1:1540:U:OP1	86:1:4017:OHX:N1	2.48	0.47
36:1:1543:G:OP1	51:M5:35:VAL:HG23	2.15	0.47
36:1:2206:G:C2	36:1:2207:A:C8	3.03	0.47
37:3:19:C:H2'	37:3:20:A:H8	1.79	0.47
37:3:91:G:C6	37:3:92:A:C6	3.03	0.47
38:4:83:C:H1'	38:4:85:G:H21	1.80	0.47
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.49	0.47
42:L5:187:THR:O	42:L5:189:GLU:N	2.47	0.47
46:L9:27:VAL:HG11	46:L9:79:ILE:HA	1.95	0.47
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.45	0.47
59:N3:35:TYR:HB2	59:N3:63:LYS:HD3	1.97	0.47
77:Q1:4:LYS:HD2	77:Q1:5:TRP:CZ3	2.50	0.47
1:6:82:U:H2'	1:6:83:G:O4'	2.15	0.47
1:6:219:A:C6	1:6:843:U:H1'	2.50	0.47
1:6:417:A:H5'	1:6:418:G:C5	2.50	0.47
1:6:512:A:H2'	1:6:513:U:C6	2.50	0.47
1:6:578:U:H4'	1:6:579:A:C5'	2.42	0.47
1:6:647:G:N2	1:6:687:G:N2	2.60	0.47
1:6:1174:C:OP2	20:c8:141:THR:HG21	2.15	0.47
1:6:1758:U:H2'	1:6:1759:C:C6	2.50	0.47
1:6:1776:A:H2'	1:6:1777:G:H8	1.80	0.47
1:6:1799:U:H4'	1:6:1800:A:H2'	1.96	0.47
3:s1:61:LEU:O	3:s1:64:ARG:HG3	2.14	0.47
9:s7:110:GLN:HE21	9:s7:110:GLN:HB3	1.45	0.47
11:s9:116:LEU:HG	11:s9:117:GLY:H	1.80	0.47
34:sR:274:LEU:C	34:sR:275:ARG:HG2	2.40	0.47
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.48	0.47
36:5:2775:U:H2'	36:5:2776:C:C6	2.50	0.47
36:5:2971:A:H5''	36:5:2972:G:C5'	2.45	0.47
38:8:71:A:O2'	62:n6:52:ARG:NH1	2.43	0.47
39:l2:10:LYS:HA	39:l2:16:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:108:LYS:HE3	41:l4:111:VAL:HG22	1.97	0.47
45:l8:57:ARG:O	45:l8:61:GLN:HG3	2.15	0.47
48:m1:17:LEU:HD21	48:m1:19:LEU:HD21	1.95	0.47
49:m3:116:LEU:O	49:m3:120:GLN:HB2	2.14	0.47
59:n3:48:ARG:HG3	59:n3:48:ARG:NH1	2.19	0.47
63:n7:3:LYS:HD3	66:o0:35:ARG:O	2.15	0.47
63:n7:136:PHE:CE1	70:o4:89:ILE:HG12	2.49	0.47
65:n9:21:ILE:O	65:n9:22:LYS:C	2.58	0.47
1:2:11:A:O2'	1:2:12:U:H5'	2.14	0.47
1:2:1009:U:H2'	1:2:1010:C:C6	2.50	0.47
1:2:1151:A:H2'	1:2:1152:A:H8	1.78	0.47
1:2:1253:U:H4'	33:E1:143:LYS:N	2.30	0.47
1:2:1347:U:O2	1:2:1516:A:H5'	2.15	0.47
1:2:1773:C:H2'	1:2:1774:G:H8	1.80	0.47
86:2:2045:OHX:N2	86:2:2100:OHX:N6	2.62	0.47
8:S6:64:LYS:NZ	8:S6:81:VAL:HG22	2.29	0.47
20:C8:14:ILE:HA	20:C8:22:VAL:O	2.15	0.47
26:D4:37:LYS:O	26:D4:41:ARG:HG3	2.14	0.47
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.79	0.47
28:D6:96:ALA:C	28:D6:98:PRO:HD2	2.40	0.47
36:1:107:A:H1'	36:1:325:A:N3	2.30	0.47
36:1:121:A:C6	45:L8:129:PRO:HG3	2.50	0.47
36:1:1240:A:H61	36:1:1244:A:C5'	2.27	0.47
36:1:2376:G:C6	36:1:2377:G:O6	2.68	0.47
36:1:2700:G:O2'	36:1:2705:A:N1	2.43	0.47
36:1:3294:A:H2'	36:1:3295:A:O4'	2.15	0.47
40:L3:262:TRP:HE1	52:M6:66:LYS:NZ	2.12	0.47
41:L4:271:LYS:HB2	41:L4:274:TYR:CB	2.45	0.47
41:L4:330:TYR:O	41:L4:333:VAL:HG13	2.15	0.47
42:L5:208:MET:HE3	42:L5:223:PHE:CD2	2.50	0.47
43:L6:22:ARG:C	43:L6:23:LYS:HG2	2.39	0.47
46:L9:41:ILE:HD11	46:L9:67:ALA:HB1	1.97	0.47
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.14	0.47
51:M5:22:LEU:O	51:M5:26:ARG:HG3	2.15	0.47
52:M6:192:LYS:HG2	52:M6:192:LYS:H	1.48	0.47
62:N6:27:ARG:HG2	62:N6:78:PHE:CE1	2.49	0.47
67:O1:88:PRO:C	67:O1:89:LEU:HD12	2.40	0.47
69:O3:13:HIS:HB3	69:O3:93:THR:O	2.14	0.47
1:6:273:G:P	60:n4:123:ARG:HH11	2.37	0.47
1:6:521:A:H2'	1:6:522:U:O4'	2.14	0.47
2:s0:147:THR:O	2:s0:161:PRO:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:48:VAL:HG12	3:s1:49:ASN:O	2.14	0.47
9:s7:6:ALA:O	9:s7:8:ILE:N	2.48	0.47
17:c5:129:GLY:O	17:c5:130:ARG:HB2	2.15	0.47
18:c6:78:VAL:O	18:c6:81:ILE:HG12	2.15	0.47
34:sR:38:ARG:HG2	34:sR:67:ILE:CG2	2.43	0.47
36:5:65:A:C4	36:5:110:G:N7	2.83	0.47
36:5:807:A:N7	36:5:2411:U:O2'	2.40	0.47
36:5:1440:G:H2'	36:5:1441:G:C8	2.50	0.47
36:5:1573:G:C6	36:5:1574:C:H1'	2.49	0.47
36:5:1833:G:O2'	75:o9:4:GLN:HA	2.14	0.47
36:5:2776:C:H5''	36:5:2777:G:O5'	2.14	0.47
86:5:4011:OHX:N3	86:5:4201:OHX:N1	2.63	0.47
38:8:79:A:H2'	38:8:80:A:O4'	2.15	0.47
41:l4:55:LYS:HE2	41:l4:55:LYS:HB3	1.64	0.47
41:l4:142:VAL:HB	41:l4:145:ILE:HG12	1.96	0.47
41:l4:193:LYS:O	41:l4:198:ARG:HG2	2.15	0.47
44:l7:198:ALA:O	44:l7:201:PHE:HB3	2.14	0.47
46:l9:41:ILE:HG22	46:l9:43:VAL:HG12	1.97	0.47
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.14	0.47
49:m3:119:TYR:HD1	49:m3:145:PHE:CE2	2.33	0.47
49:m3:157:ARG:NH2	64:n8:124:ILE:HG21	2.29	0.47
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	1.95	0.47
53:m7:116:HIS:HB3	53:m7:149:VAL:HB	1.97	0.47
71:o5:86:ARG:O	71:o5:90:ARG:HG2	2.14	0.47
1:2:314:C:N3	1:2:354:C:N4	2.48	0.47
1:2:1349:G:H2'	1:2:1350:U:C6	2.50	0.47
1:2:1521:G:O6	21:C9:68:ARG:NH1	2.48	0.47
2:S0:112:THR:OG1	2:S0:113:ARG:N	2.48	0.47
2:S0:179:ARG:HD3	2:S0:183:ARG:NH1	2.29	0.47
5:S3:194:LYS:O	5:S3:196:ARG:N	2.48	0.47
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.29	0.47
16:C4:23:PHE:HD1	16:C4:96:PRO:HD3	1.78	0.47
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.80	0.47
24:D2:37:PHE:HD1	24:D2:41:MET:HE2	1.80	0.47
25:D3:48:HIS:HB3	25:D3:104:LEU:O	2.14	0.47
34:SR:22:SER:HB3	34:SR:70:ASP:HA	1.96	0.47
36:1:90:C:H2'	36:1:91:G:H5'	1.97	0.47
36:1:121:A:C2	45:L8:129:PRO:HB3	2.50	0.47
36:1:274:G:H2'	36:1:275:U:O4'	2.15	0.47
36:1:1134:G:C2	36:1:1135:A:C8	3.03	0.47
36:1:1916:U:H2'	36:1:1917:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2503:G:H1'	36:1:2504:U:C5	2.50	0.47
38:4:83:C:H1'	38:4:85:G:N2	2.30	0.47
45:L8:112:GLU:O	45:L8:116:VAL:HB	2.15	0.47
50:M4:34:ALA:HB2	50:M4:85:TRP:CZ3	2.50	0.47
52:M6:41:LEU:HD23	52:M6:138:LEU:HD22	1.97	0.47
62:N6:90:VAL:C	62:N6:92:GLY:H	2.23	0.47
64:N8:71:PRO:HG2	64:N8:109:TYR:HA	1.96	0.47
72:O6:34:SER:OG	72:O6:37:THR:HG23	2.15	0.47
1:6:67:A:OP1	8:s6:171:LYS:NZ	2.35	0.47
1:6:282:C:H2'	1:6:283:U:O4'	2.14	0.47
1:6:952:A:H5''	15:c3:94:LYS:HZ2	1.79	0.47
1:6:993:A:H2	39:l2:247:ARG:NH1	2.13	0.47
1:6:1270:G:H21	33:e1:79:LYS:HD2	1.79	0.47
1:6:1698:G:H1'	1:6:1699:G:OP1	2.15	0.47
1:6:1759:C:H2'	1:6:1760:G:O4'	2.15	0.47
6:s4:127:LYS:N	6:s4:140:VAL:O	2.37	0.47
80:e0:20:LYS:HD2	80:e0:21:VAL:H	1.80	0.47
34:sR:19:TRP:HB2	34:sR:38:ARG:HG3	1.97	0.47
36:5:2298:U:O4	36:5:2923:U:H5	1.98	0.47
36:5:3165:A:H61	36:5:3285:C:N4	2.10	0.47
40:l3:86:VAL:HA	40:l3:162:VAL:HG12	1.97	0.47
46:l9:86:TYR:CD2	46:l9:151:VAL:HG22	2.50	0.47
48:m1:103:GLY:HA3	48:m1:128:TYR:CD2	2.50	0.47
61:n5:105:VAL:HA	61:n5:130:TYR:CE2	2.49	0.47
66:o0:101:LEU:HD22	66:o0:101:LEU:H	1.79	0.47
74:o8:4:GLU:HG3	74:o8:5:ILE:N	2.30	0.47
75:o9:9:ILE:HG22	75:o9:13:MET:HE3	1.96	0.47
1:2:703:G:H2'	1:2:704:C:H5'	1.96	0.46
1:2:1281:G:OP1	22:D0:78:THR:HG21	2.14	0.46
1:2:1360:A:C4	1:2:1361:U:H1'	2.50	0.46
1:2:1756:A:O5'	1:2:1756:A:C8	2.66	0.46
3:S1:48:VAL:CG1	3:S1:61:LEU:HD21	2.45	0.46
5:S3:55:THR:HG23	5:S3:90:ARG:HG2	1.97	0.46
6:S4:141:THR:O	6:S4:143:ASP:N	2.48	0.46
6:S4:240:LYS:N	6:S4:240:LYS:HE2	2.30	0.46
9:S7:67:LEU:HG	9:S7:94:ALA:HB2	1.96	0.46
11:S9:85:VAL:CG1	11:S9:99:LEU:HD11	2.45	0.46
16:C4:61:MET:O	16:C4:64:ALA:N	2.48	0.46
20:C8:102:ALA:O	20:C8:105:VAL:HG12	2.15	0.46
24:D2:117:ARG:HA	24:D2:117:ARG:HD2	1.80	0.46
25:D3:10:ASN:C	25:D3:12:ALA:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:67:THR:OG1	29:D7:70:LYS:O	2.29	0.46
32:E0:55:ARG:HB2	32:E0:58:PRO:HG3	1.97	0.46
36:1:299:G:N7	86:1:4079:OHX:N2	2.63	0.46
36:1:410:U:O4	86:1:4055:OHX:N5	2.48	0.46
36:1:637:C:H1'	36:1:638:C:C6	2.51	0.46
36:1:1614:C:H2'	36:1:1615:C:H6	1.80	0.46
36:1:2435:G:N7	36:1:2593:A:H2'	2.30	0.46
86:1:3969:OHX:N5	86:1:4155:OHX:N2	2.62	0.46
41:L4:229:ASN:O	41:L4:230:VAL:C	2.58	0.46
41:L4:334:PHE:HA	41:L4:339:LEU:HD12	1.97	0.46
41:L4:353:ALA:O	41:L4:357:GLU:HG3	2.15	0.46
42:L5:279:LYS:HG2	42:L5:282:ARG:CZ	2.45	0.46
48:M1:83:GLY:HA2	48:M1:86:VAL:HG23	1.97	0.46
48:M1:139:THR:O	48:M1:140:ARG:HD2	2.14	0.46
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.47	0.46
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.15	0.46
58:N2:19:VAL:O	58:N2:22:PRO:HD2	2.16	0.46
1:6:29:U:H2'	1:6:30:G:H8	1.80	0.46
1:6:373:G:N7	86:6:2185:OHX:N3	2.62	0.46
1:6:1154:G:N7	86:6:2135:OHX:N2	2.63	0.46
1:6:1180:C:O2'	17:c5:128:HIS:HA	2.14	0.46
1:6:1231:U:O5'	1:6:1259:U:H1'	2.15	0.46
1:6:1450:U:OP2	86:6:2128:OHX:N4	2.48	0.46
3:s1:87:ARG:NH2	3:s1:89:ASP:OD1	2.48	0.46
3:s1:97:LEU:HB3	3:s1:232:HIS:CD2	2.51	0.46
3:s1:164:ILE:HG12	3:s1:204:ILE:HG21	1.96	0.46
5:s3:21:LEU:HA	5:s3:21:LEU:HD23	1.77	0.46
8:s6:26:VAL:HG21	8:s6:40:ALA:HB1	1.96	0.46
8:s6:54:GLY:C	8:s6:63:MET:HE3	2.40	0.46
11:s9:123:HIS:O	11:s9:127:VAL:HG23	2.15	0.46
12:c0:30:ALA:O	12:c0:31:LYS:HB2	2.15	0.46
16:c4:97:GLY:O	16:c4:99:GLN:N	2.48	0.46
17:c5:127:ARG:O	17:c5:130:ARG:NH1	2.48	0.46
18:c6:52:LEU:HD22	18:c6:60:PHE:CE1	2.50	0.46
34:sR:93:ASP:HB3	34:sR:96:THR:HG22	1.95	0.46
34:sR:216:LYS:HA	34:sR:239:GLU:HG3	1.96	0.46
36:5:20:A:O2'	36:5:21:G:H5'	2.15	0.46
36:5:44:U:H5''	36:5:45:A:OP2	2.14	0.46
36:5:571:U:H2'	36:5:572:A:H8	1.79	0.46
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.77	0.46
36:5:1095:U:O4'	57:n1:129:LYS:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1766:G:H8	55:m9:46:LYS:HZ1	1.62	0.46
36:5:3127:A:H2'	36:5:3128:G:O4'	2.15	0.46
45:l8:108:ARG:O	45:l8:110:THR:N	2.48	0.46
45:l8:139:VAL:O	45:l8:143:ILE:HG13	2.15	0.46
45:l8:225:LYS:O	45:l8:229:VAL:HG23	2.15	0.46
49:m3:50:PRO:HB3	49:m3:138:VAL:O	2.14	0.46
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.41	0.46
56:n0:23:LYS:HA	57:n1:146:ASN:HD21	1.80	0.46
59:n3:94:TYR:CZ	60:n4:21:PHE:HB2	2.49	0.46
69:o3:91:ALA:C	69:o3:93:THR:H	2.23	0.46
74:o8:5:ILE:HA	74:o8:5:ILE:HD12	1.60	0.46
1:2:12:U:H2'	1:2:13:C:C6	2.51	0.46
1:2:542:A:H5''	1:2:544:A:C8	2.51	0.46
1:2:730:G:H2'	1:2:730:G:N3	2.30	0.46
1:2:1788:G:P	16:C4:127:ARG:HH12	2.37	0.46
7:S5:35:GLN:C	7:S5:37:GLN:H	2.23	0.46
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.50	0.46
14:C2:40:GLY:O	14:C2:124:LYS:N	2.47	0.46
19:C7:23:LYS:O	19:C7:24:LEU:HB2	2.15	0.46
20:C8:131:LEU:HA	20:C8:145:ARG:HH12	1.80	0.46
20:C8:132:ARG:HB3	20:C8:136:GLN:HG3	1.97	0.46
36:1:561:C:H2'	36:1:562:C:C6	2.50	0.46
36:1:826:G:OP1	36:1:1590:G:O2'	2.27	0.46
36:1:956:U:OP1	86:1:4124:OHX:N1	2.48	0.46
36:1:1103:A:H1'	36:1:1104:G:P	2.55	0.46
36:1:1802:C:H2'	36:1:1803:C:C6	2.51	0.46
40:L3:296:THR:HG21	40:L3:356:LEU:HB2	1.97	0.46
41:L4:74:ILE:HG21	41:L4:94:CYS:SG	2.56	0.46
45:L8:248:LYS:N	45:L8:248:LYS:HD2	2.30	0.46
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.97	0.46
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.46	0.46
49:M3:80:VAL:HG13	49:M3:85:LEU:O	2.14	0.46
49:M3:131:LYS:HE2	49:M3:131:LYS:HB3	1.59	0.46
49:M3:164:GLU:O	49:M3:166:ALA:N	2.40	0.46
51:M5:96:ARG:NH1	51:M5:96:ARG:HG2	2.30	0.46
54:M8:40:THR:C	54:M8:42:ALA:H	2.21	0.46
62:N6:74:TYR:CD1	62:N6:77:LYS:HG3	2.51	0.46
64:N8:85:ASP:O	64:N8:89:GLN:HG3	2.15	0.46
1:6:374:U:OP1	13:c1:96:LYS:NZ	2.25	0.46
1:6:445:A:H2'	1:6:445:A:N3	2.29	0.46
1:6:496:G:O6	1:6:497:G:N2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:780:A:N3	26:d4:10:ARG:HD3	2.30	0.46
1:6:1334:U:H2'	1:6:1335:U:C6	2.50	0.46
1:6:1597:A:P	31:d9:19:ARG:NH2	2.88	0.46
5:s3:167:PHE:CE1	5:s3:192:PRO:HB3	2.49	0.46
8:s6:126:ASP:OD1	8:s6:127:THR:HG22	2.14	0.46
11:s9:149:ARG:HG2	11:s9:149:ARG:H	1.44	0.46
12:c0:32:HIS:CG	12:c0:33:GLU:H	2.33	0.46
16:c4:115:ILE:O	28:d6:65:PRO:HG3	2.15	0.46
25:d3:67:ALA:C	25:d3:68:ILE:HD13	2.40	0.46
28:d6:44:ILE:HD12	28:d6:67:THR:HG22	1.97	0.46
36:5:196:G:C2	36:5:199:A:C8	3.03	0.46
36:5:215:G:H5''	62:n6:12:ARG:HD3	1.97	0.46
36:5:308:A:H5'	36:5:2223:A:O2'	2.15	0.46
36:5:656:A:H2'	36:5:657:A:C8	2.50	0.46
36:5:2255:A:H5'	36:5:2261:G:H22	1.80	0.46
36:5:3309:G:O6	40:l3:21:ARG:NH2	2.37	0.46
41:l4:316:ASN:C	41:l4:316:ASN:OD1	2.59	0.46
47:m0:42:THR:HG23	47:m0:45:GLU:HB2	1.97	0.46
49:m3:23:LYS:HE3	51:m5:196:THR:HG21	1.96	0.46
69:o3:85:PHE:CD1	69:o3:89:LEU:HD21	2.50	0.46
71:o5:105:ARG:HE	71:o5:105:ARG:HB2	1.48	0.46
73:o7:5:THR:HA	73:o7:8:PHE:CD2	2.50	0.46
1:2:452:A:OP2	86:2:2039:OHX:N5	2.48	0.46
1:2:1353:U:H2'	1:2:1354:G:H8	1.79	0.46
1:2:1573:A:H8	1:2:1573:A:O5'	1.98	0.46
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.81	0.46
2:S0:64:ILE:HG23	2:S0:73:VAL:HG11	1.97	0.46
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	1.97	0.46
3:S1:158:SER:H	3:S1:161:ILE:HG13	1.79	0.46
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.15	0.46
11:S9:40:LYS:HA	11:S9:43:TYR:HB2	1.96	0.46
14:C2:67:THR:C	14:C2:69:ALA:H	2.23	0.46
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.14	0.46
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.51	0.46
26:D4:60:PHE:CD1	26:D4:71:GLY:HA3	2.50	0.46
26:D4:122:GLY:O	26:D4:125:LEU:HB3	2.15	0.46
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.33	0.46
34:SR:199:ILE:HA	34:SR:215:GLY:HA3	1.97	0.46
36:1:158:G:H2'	36:1:159:A:H8	1.80	0.46
36:1:1014:U:C2'	36:1:1015:U:H5''	2.46	0.46
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1245:A:C3'	36:1:1246:G:H5''	2.45	0.46
36:1:1286:A:N3	36:1:1287:A:H1'	2.30	0.46
36:1:1952:G:H5'	36:1:1953:G:OP2	2.14	0.46
36:1:2307:G:O2'	36:1:2310:U:OP2	2.33	0.46
36:1:2401:A:O3'	41:L4:68:GLY:HA2	2.15	0.46
36:1:3197:G:H2'	36:1:3198:U:H5''	1.96	0.46
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.96	0.46
86:1:4030:OHX:N2	86:1:4043:OHX:N1	2.63	0.46
40:L3:350:ALA:O	40:L3:351:LEU:HG	2.16	0.46
46:L9:162:GLN:HG3	46:L9:163:GLN:N	2.30	0.46
47:M0:216:TYR:CD2	47:M0:217:PHE:N	2.83	0.46
62:N6:5:SER:HB3	62:N6:8:VAL:HG12	1.97	0.46
66:O0:51:LEU:HD12	66:O0:51:LEU:HA	1.56	0.46
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.15	0.46
1:6:512:A:OP2	11:s9:172:VAL:HG13	2.15	0.46
1:6:1172:G:H2'	1:6:1173:C:C6	2.51	0.46
2:s0:126:PRO:CG	2:s0:151:SER:HB2	2.45	0.46
6:s4:207:LEU:HD23	6:s4:207:LEU:HA	1.70	0.46
7:s5:43:PHE:CZ	7:s5:90:ILE:HG21	2.51	0.46
7:s5:107:LYS:O	7:s5:111:VAL:HG23	2.15	0.46
11:s9:121:SER:HB3	11:s9:124:HIS:CB	2.46	0.46
12:c0:15:LEU:HD11	12:c0:68:LEU:HD13	1.97	0.46
18:c6:28:LEU:C	18:c6:29:ILE:HG13	2.40	0.46
19:c7:25:THR:HG1	19:c7:31:ASN:ND2	2.13	0.46
22:d0:80:GLU:OE1	31:d9:44:ARG:NH1	2.48	0.46
23:d1:64:GLU:OE2	29:d7:2:VAL:HG13	2.15	0.46
24:d2:106:THR:HG22	24:d2:122:SER:C	2.40	0.46
27:d5:56:THR:O	27:d5:103:ARG:NH2	2.48	0.46
29:d7:37:CYS:HA	29:d7:38:PRO:HD3	1.73	0.46
34:sR:134:TRP:CZ3	34:sR:140:CYS:HB2	2.51	0.46
36:5:1109:U:H2'	36:5:1110:U:O4'	2.15	0.46
36:5:1549:U:H2'	36:5:1550:C:C6	2.50	0.46
86:5:4055:OHX:N3	86:5:4200:OHX:N6	2.63	0.46
86:7:217:OHX:N4	86:7:225:OHX:N6	2.64	0.46
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.30	0.46
41:l4:99:MET:HE3	41:l4:102:PRO:CA	2.33	0.46
73:o7:22:CYS:SG	73:o7:24:ARG:HG3	2.55	0.46
73:o7:76:ASN:O	73:o7:79:GLN:HG3	2.14	0.46
75:o9:9:ILE:HA	75:o9:9:ILE:HD13	1.69	0.46
82:p0:189:GLN:HE22	82:p0:196:VAL:HB	1.80	0.46
1:2:68:A:H5'	8:S6:160:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:514:G:O2'	1:2:515:A:H5''	2.15	0.46
1:2:604:A:OP2	86:2:2166:OHX:N5	2.49	0.46
1:2:809:A:N6	1:2:810:G:O6	2.48	0.46
1:2:992:A:H2	1:2:1012:U:N3	1.98	0.46
1:2:1535:U:H1'	1:2:1536:G:C2	2.51	0.46
17:C5:65:LEU:C	17:C5:67:ALA:H	2.23	0.46
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.40	0.46
26:D4:89:TYR:O	26:D4:92:VAL:HB	2.15	0.46
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.97	0.46
36:1:314:U:H2'	36:1:315:C:C6	2.51	0.46
36:1:655:C:H2'	36:1:656:A:H8	1.80	0.46
36:1:900:G:H1'	36:1:1589:A:H61	1.79	0.46
36:1:939:U:OP2	64:N8:26:ARG:NH2	2.39	0.46
36:1:1094:U:H1'	36:1:1096:U:C2'	2.45	0.46
36:1:1595:U:C2	36:1:1596:C:C5	3.03	0.46
36:1:1849:C:H5'	36:1:1849:C:H6	1.79	0.46
36:1:2916:U:H5	36:1:2935:U:HO2'	1.62	0.46
38:4:82:U:O2	38:4:83:C:C5	2.69	0.46
39:L2:77:ILE:HD13	39:L2:128:ARG:HB3	1.97	0.46
44:L7:206:LYS:HB3	44:L7:206:LYS:HE3	1.80	0.46
46:L9:74:LEU:HD23	46:L9:74:LEU:HA	1.67	0.46
56:N0:89:ASN:OD1	57:N1:156:TYR:N	2.43	0.46
63:N7:43:VAL:O	63:N7:72:ILE:HA	2.15	0.46
1:6:276:C:O2'	1:6:277:U:OP2	2.29	0.46
1:6:577:G:H3'	1:6:577:G:C8	2.50	0.46
1:6:629:U:H1'	1:6:971:A:N1	2.31	0.46
1:6:1248:C:H2'	1:6:1249:U:C6	2.51	0.46
1:6:1282:U:OP1	86:6:2137:OHX:N4	2.49	0.46
3:s1:56:SER:HB3	3:s1:59:ASP:OD2	2.15	0.46
5:s3:190:ARG:HH12	5:s3:195:SER:HA	1.81	0.46
6:s4:62:LYS:HD2	6:s4:66:MET:HG2	1.98	0.46
11:s9:3:ARG:HD3	11:s9:3:ARG:H	1.79	0.46
24:d2:23:ARG:NH1	24:d2:66:ASN:HA	2.31	0.46
25:d3:130:VAL:O	25:d3:130:VAL:HG23	2.15	0.46
26:d4:2:SER:N	26:d4:32:ARG:HD3	2.30	0.46
26:d4:50:ALA:O	26:d4:51:GLU:HB3	2.15	0.46
36:5:1262:G:H5''	36:5:1263:A:OP2	2.15	0.46
36:5:1657:C:C5	36:5:1797:A:H5''	2.50	0.46
36:5:1895:A:O2'	36:5:3053:G:H4'	2.15	0.46
36:5:3155:U:HO2'	36:5:3156:U:H6	1.63	0.46
36:5:3232:G:N2	36:5:3255:U:O2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:I3:59:ASP:OD1	40:I3:71:GLU:HG2	2.16	0.46
41:I4:179:LEU:HD13	41:I4:183:LYS:HG3	1.98	0.46
61:n5:92:LYS:HD3	61:n5:110:VAL:HG12	1.96	0.46
64:n8:45:MET:HE2	64:n8:45:MET:HA	1.98	0.46
79:q3:11:THR:HG21	79:q3:27:LYS:HB2	1.97	0.46
1:2:138:A:H62	1:2:266:A:H61	1.62	0.46
1:2:142:G:N2	1:2:174:U:H1'	2.30	0.46
1:2:321:C:H4'	1:2:322:G:OP2	2.15	0.46
1:2:328:A:H2'	1:2:329:G:O4'	2.16	0.46
1:2:854:U:O4	55:M9:173:ARG:NH2	2.43	0.46
1:2:1013:A:H2'	1:2:1014:G:O4'	2.16	0.46
1:2:1245:G:N2	33:E1:95:HIS:HE2	2.13	0.46
3:S1:41:ARG:HH12	3:S1:232:HIS:HB3	1.81	0.46
5:S3:119:ALA:HB1	5:S3:136:VAL:HG11	1.97	0.46
8:S6:28:PHE:CE1	8:S6:104:PRO:HG3	2.49	0.46
9:S7:140:VAL:HG22	9:S7:150:GLN:HG3	1.98	0.46
9:S7:158:ASP:O	9:S7:160:GLN:N	2.48	0.46
11:S9:109:LEU:CB	11:S9:146:PHE:HB3	2.43	0.46
11:S9:123:HIS:O	11:S9:127:VAL:HG23	2.16	0.46
15:C3:27:LYS:CD	15:C3:27:LYS:H	2.27	0.46
17:C5:126:VAL:O	17:C5:127:ARG:HB2	2.15	0.46
18:C6:69:VAL:HB	18:C6:77:GLN:OE1	2.16	0.46
19:C7:21:TYR:CD2	19:C7:58:MET:HE1	2.51	0.46
24:D2:17:ALA:HB2	24:D2:25:VAL:HG13	1.97	0.46
34:SR:195:HIS:CD2	34:SR:199:ILE:HD13	2.50	0.46
34:SR:200:ASN:O	34:SR:201:THR:HB	2.14	0.46
36:1:706:A:H4'	36:1:781:G:O2'	2.16	0.46
36:1:873:C:O5'	36:1:874:U:H4'	2.15	0.46
36:1:979:U:H1'	36:1:980:A:C5	2.51	0.46
36:1:1285:G:O2'	36:1:1286:A:OP2	2.26	0.46
36:1:2112:U:H6	36:1:2112:U:O5'	1.98	0.46
36:1:2726:C:O2'	36:1:2727:A:H2'	2.16	0.46
36:1:3088:G:H2'	36:1:3089:C:O4'	2.15	0.46
36:1:3151:U:H4'	36:1:3294:A:H1'	1.96	0.46
36:1:3165:A:H2'	36:1:3166:C:C6	2.50	0.46
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.30	0.46
41:L4:237:GLN:O	41:L4:246:ARG:HG3	2.15	0.46
41:L4:338:LYS:C	41:L4:340:GLY:H	2.21	0.46
44:L7:173:LEU:HD21	44:L7:198:ALA:HA	1.97	0.46
56:N0:86:GLY:O	56:N0:88:HIS:NE2	2.49	0.46
62:N6:36:SER:O	62:N6:40:ARG:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:81:GLU:O	67:O1:82:GLU:HG3	2.15	0.46
1:6:151:G:N2	1:6:163:G:H22	2.13	0.46
1:6:913:G:C8	36:5:2205:U:C4	3.04	0.46
1:6:1294:G:C6	1:6:1295:G:N7	2.83	0.46
2:s0:63:ILE:HD13	23:d1:34:ILE:HG21	1.98	0.46
6:s4:42:LEU:HD12	6:s4:101:LEU:HD22	1.96	0.46
7:s5:101:GLY:O	7:s5:103:ASN:N	2.48	0.46
17:c5:7:ALA:O	17:c5:9:LYS:N	2.48	0.46
19:c7:21:TYR:CD2	19:c7:58:MET:HE1	2.50	0.46
21:c9:63:ARG:O	21:c9:67:MET:HG3	2.16	0.46
23:d1:81:ASN:OD1	23:d1:81:ASN:N	2.48	0.46
80:e0:37:ARG:O	80:e0:41:THR:OG1	2.34	0.46
36:5:231:G:C2	36:5:232:G:C8	3.04	0.46
36:5:736:A:H2'	36:5:737:G:O4'	2.16	0.46
36:5:1339:C:OP1	68:o2:61:LYS:HD3	2.16	0.46
36:5:1469:C:O2'	36:5:1509:A:H2	1.99	0.46
36:5:2682:C:OP2	48:m1:51:ARG:NH2	2.45	0.46
36:5:2796:G:H5''	36:5:2798:C:O4'	2.15	0.46
38:8:157:U:O2'	38:8:158:U:H5'	2.16	0.46
40:l3:221:THR:HB	40:l3:273:HIS:O	2.15	0.46
41:l4:359:LEU:HA	56:n0:8:GLN:OE1	2.15	0.46
49:m3:47:ALA:O	49:m3:137:GLN:NE2	2.49	0.46
55:m9:43:LYS:HD2	55:m9:43:LYS:HA	1.53	0.46
59:n3:13:ILE:HD12	59:n3:85:TRP:CG	2.51	0.46
68:o2:6:HIS:HA	68:o2:7:PRO:HD2	1.66	0.46
74:o8:62:ALA:O	74:o8:66:ILE:HG13	2.15	0.46
77:q1:8:LYS:O	77:q1:12:ARG:HG3	2.16	0.46
1:2:25:C:OP2	1:2:26:A:H2'	2.15	0.46
1:2:1291:G:N2	1:2:1324:G:N2	2.62	0.46
5:S3:124:ARG:HB3	35:SM:127:ALA:HB2	1.97	0.46
15:C3:87:ASP:OD2	15:C3:88:LEU:N	2.48	0.46
25:D3:16:ARG:HG3	25:D3:16:ARG:H	1.55	0.46
33:E1:94:LYS:HB3	33:E1:95:HIS:H	1.55	0.46
36:1:118:U:O2	36:1:121:A:H5'	2.15	0.46
36:1:263:C:H2'	36:1:264:G:O4'	2.16	0.46
36:1:1048:A:H2'	47:M0:22:TYR:CZ	2.51	0.46
36:1:3160:U:H2'	36:1:3161:C:H6	1.76	0.46
86:1:3957:OHX:N1	86:1:4139:OHX:N4	2.64	0.46
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.29	0.46
56:N0:155:ARG:HD3	56:N0:172:TYR:CD2	2.50	0.46
1:6:463:U:OP1	86:6:2203:OHX:N1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:531:C:O2	26:d4:62:THR:HG23	2.16	0.46
1:6:828:U:H2'	1:6:829:A:H5''	1.97	0.46
1:6:885:G:H2'	1:6:886:U:C6	2.51	0.46
1:6:1185:U:C2	1:6:1458:G:N7	2.83	0.46
1:6:1460:A:P	35:sM:68:ARG:HH21	2.38	0.46
3:s1:120:LEU:HG	3:s1:142:PHE:CE1	2.50	0.46
5:s3:105:MET:HG2	5:s3:122:VAL:HG21	1.98	0.46
6:s4:37:LYS:NZ	6:s4:40:GLU:OE1	2.45	0.46
6:s4:100:ARG:HH21	6:s4:122:LYS:HA	1.79	0.46
8:s6:121:LEU:HB2	8:s6:125:THR:HB	1.96	0.46
16:c4:14:PHE:O	16:c4:33:LEU:HD13	2.16	0.46
17:c5:21:ASP:O	17:c5:24:LYS:N	2.47	0.46
33:e1:88:PRO:HA	33:e1:89:LYS:HA	1.58	0.46
36:5:123:A:H5'	36:5:124:U:OP2	2.15	0.46
36:5:314:U:O4	86:5:4192:OHX:N5	2.49	0.46
36:5:322:U:H5''	36:5:323:A:OP1	2.14	0.46
36:5:599:C:H2'	36:5:600:G:O4'	2.15	0.46
36:5:1493:G:C6	75:o9:13:MET:HE2	2.51	0.46
36:5:3358:U:H2'	36:5:3359:A:H8	1.81	0.46
86:5:4055:OHX:N1	86:5:4200:OHX:N4	2.64	0.46
38:8:67:U:O4	86:8:229:OHX:N3	2.49	0.46
38:8:154:C:H2'	38:8:155:A:O4'	2.16	0.46
41:l4:264:SER:C	41:l4:266:THR:H	2.24	0.46
44:l7:121:LYS:HB2	57:n1:133:ALA:HB3	1.97	0.46
45:l8:104:GLU:O	45:l8:107:GLU:N	2.49	0.46
46:l9:55:VAL:O	46:l9:68:LEU:HD21	2.15	0.46
47:m0:81:GLY:C	47:m0:83:ASP:N	2.74	0.46
48:m1:28:ASP:OD2	48:m1:32:ARG:HD3	2.15	0.46
53:m7:67:ILE:HG23	53:m7:82:ARG:HD2	1.98	0.46
56:n0:81:TYR:HE1	56:n0:90:MET:HE3	1.80	0.46
59:n3:11:PHE:HB2	59:n3:88:ARG:NH1	2.30	0.46
1:2:539:G:OP2	1:2:539:G:H8	1.99	0.46
1:2:702:G:O2'	1:2:703:G:O4'	2.32	0.46
1:2:887:A:H2'	1:2:888:U:C6	2.50	0.46
1:2:986:G:H2'	1:2:987:G:O4'	2.15	0.46
1:2:1009:U:H2'	1:2:1010:C:H6	1.79	0.46
1:2:1346:A:H8	1:2:1370:U:O2	1.99	0.46
1:2:1460:A:C8	17:C5:128:HIS:HB3	2.50	0.46
3:S1:72:ASP:OD2	28:D6:59:TYR:OH	2.28	0.46
4:S2:60:SER:O	23:D1:29:HIS:ND1	2.45	0.46
5:S3:156:PHE:C	5:S3:157:LEU:HD12	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	1.96	0.46
7:S5:87:CYS:HA	7:S5:88:PRO:HD2	1.76	0.46
10:S8:81:VAL:HG11	10:S8:94:ASN:HA	1.97	0.46
10:S8:138:ASN:N	10:S8:138:ASN:OD1	2.49	0.46
17:C5:22:LEU:O	17:C5:26:LEU:HD13	2.16	0.46
19:C7:22:PRO:HA	34:SR:216:LYS:NZ	2.30	0.46
26:D4:76:TYR:OH	26:D4:86:GLU:OE2	2.21	0.46
34:SR:20:VAL:O	34:SR:291:SER:OG	2.32	0.46
36:1:256:G:H4'	71:O5:111:PHE:HZ	1.80	0.46
36:1:594:U:H2'	36:1:609:G:O6	2.16	0.46
36:1:773:G:H8	36:1:773:G:O5'	1.99	0.46
36:1:1020:G:H5'	36:1:1021:G:OP2	2.15	0.46
36:1:2373:A:N3	36:1:2824:G:O2'	2.44	0.46
36:1:2882:U:H2'	36:1:2883:U:C6	2.50	0.46
86:1:3969:OHX:N6	86:1:4155:OHX:N2	2.63	0.46
86:1:4001:OHX:N5	86:1:4171:OHX:N5	2.64	0.46
37:3:61:G:H2'	37:3:62:U:H6	1.80	0.46
39:L2:36:GLU:O	39:L2:91:GLY:HA2	2.16	0.46
40:L3:46:PHE:CE2	40:L3:205:VAL:HG22	2.50	0.46
41:L4:57:GLY:HA3	41:L4:98:ARG:HB2	1.98	0.46
41:L4:62:ALA:HB1	41:L4:76:ARG:O	2.16	0.46
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.15	0.46
47:M0:144:ASN:O	47:M0:145:LYS:C	2.58	0.46
48:M1:103:GLY:HA3	48:M1:128:TYR:CD2	2.51	0.46
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	1.97	0.46
54:M8:135:GLN:H	54:M8:135:GLN:CD	2.22	0.46
59:N3:39:VAL:HG22	59:N3:52:ALA:HB2	1.98	0.46
63:N7:36:HIS:HA	63:N7:38:PHE:CE1	2.50	0.46
63:N7:77:TYR:C	63:N7:79:HIS:H	2.23	0.46
75:O9:37:TYR:CE1	75:O9:39:ALA:HA	2.51	0.46
78:Q2:12:CYS:SG	78:Q2:74:CYS:SG	3.12	0.46
1:6:97:C:O2'	1:6:426:G:H5'	2.16	0.46
1:6:249:U:H3'	1:6:250:C:C5'	2.46	0.46
1:6:332:U:OP2	10:s8:56:ARG:NH2	2.49	0.46
1:6:493:U:H2'	1:6:494:U:H5''	1.97	0.46
1:6:961:U:H2'	1:6:962:C:C6	2.51	0.46
1:6:1432:U:H4'	1:6:1433:G:H5''	1.97	0.46
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.50	0.46
4:s2:246:GLU:H	4:s2:246:GLU:HG2	1.42	0.46
8:s6:4:ASN:HB3	8:s6:110:ALA:HA	1.98	0.46
10:s8:81:VAL:HG21	10:s8:95:THR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:184:LEU:HD23	10:s8:189:LEU:HA	1.96	0.46
13:c1:2:SER:O	13:c1:3:THR:OG1	2.28	0.46
13:c1:101:GLU:OE1	13:c1:103:ARG:NH2	2.43	0.46
20:c8:67:GLU:O	20:c8:71:GLN:HG3	2.15	0.46
36:5:7:C:H2'	36:5:8:C:C6	2.51	0.46
36:5:717:C:H2'	36:5:718:G:O4'	2.16	0.46
36:5:1908:A:H2'	36:5:1909:A:O4'	2.15	0.46
86:5:4066:OHX:N1	86:5:4143:OHX:N4	2.63	0.46
86:5:4090:OHX:N5	86:q1:102:OHX:N6	2.64	0.46
39:l2:131:GLY:H	39:l2:169:ILE:HG22	1.80	0.46
40:l3:13:HIS:HB3	40:l3:16:PHE:HD1	1.81	0.46
40:l3:46:PHE:CE2	40:l3:205:VAL:HG13	2.50	0.46
41:l4:23:PRO:O	41:l4:25:VAL:N	2.49	0.46
44:l7:214:TRP:CD2	44:l7:219:LYS:HD2	2.51	0.46
47:m0:62:SER:O	47:m0:65:LEU:HB2	2.15	0.46
50:m4:20:VAL:O	50:m4:66:THR:HG23	2.16	0.46
53:m7:4:TYR:OH	53:m7:18:ARG:HG3	2.15	0.46
53:m7:33:ALA:HB1	53:m7:117:ILE:HG12	1.97	0.46
53:m7:88:VAL:O	53:m7:92:GLN:HG3	2.16	0.46
66:o0:53:LYS:HE3	66:o0:69:TYR:CE2	2.44	0.46
1:2:425:A:H5'	1:2:425:A:H8	1.80	0.46
1:2:623:A:OP1	86:2:2156:OHX:N1	2.49	0.46
1:2:1096:C:H2'	1:2:1096:C:O2	2.15	0.46
1:2:1101:G:H5''	24:D2:76:SER:HB2	1.97	0.46
1:2:1308:G:C2	1:2:1309:C:C2	3.04	0.46
1:2:1796:C:C6	28:D6:5:ARG:HG2	2.51	0.46
5:S3:7:LYS:HE3	22:D0:88:LYS:HE2	1.97	0.46
6:S4:38:LEU:C	6:S4:40:GLU:H	2.22	0.46
12:C0:44:LYS:HD3	12:C0:44:LYS:HA	1.62	0.46
17:C5:116:LEU:HD23	17:C5:116:LEU:HA	1.80	0.46
24:D2:7:LEU:HD23	24:D2:7:LEU:HA	1.77	0.46
26:D4:87:PRO:HG2	26:D4:90:ARG:CZ	2.46	0.46
32:E0:42:ARG:HB3	32:E0:42:ARG:HH11	1.80	0.46
34:SR:36:ALA:N	34:SR:71:CYS:SG	2.89	0.46
36:1:1210:U:H2'	36:1:1211:U:C6	2.51	0.46
36:1:1491:A:N7	75:O9:2:ALA:HB1	2.31	0.46
36:1:2656:A:C8	36:1:2658:G:C8	3.04	0.46
36:1:2724:U:H4'	57:N1:54:HIS:CD2	2.51	0.46
36:1:3217:C:O2	36:1:3217:C:H2'	2.14	0.46
38:4:43:A:OP1	86:4:236:OHX:N5	2.49	0.46
41:L4:3:ARG:HA	41:L4:4:PRO:HD2	1.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:316:ASN:OD1	41:L4:318:LEU:HB2	2.15	0.46
43:L6:164:SER:HB3	43:L6:166:LYS:HE3	1.96	0.46
47:M0:213:PHE:N	47:M0:214:PRO:HD3	2.31	0.46
48:M1:133:ARG:HD2	48:M1:152:HIS:O	2.16	0.46
52:M6:99:LEU:HD23	52:M6:99:LEU:HA	1.76	0.46
54:M8:26:LEU:O	54:M8:30:VAL:HG23	2.16	0.46
56:N0:89:ASN:CG	57:N1:156:TYR:H	2.24	0.46
69:O3:41:ALA:HB3	69:O3:74:THR:HG22	1.97	0.46
70:O4:103:LYS:HA	70:O4:103:LYS:HD3	1.57	0.46
1:6:538:A:H2	1:6:540:G:N2	2.08	0.46
1:6:753:A:OP2	6:s4:187:ARG:NH1	2.48	0.46
1:6:952:A:H5'	15:c3:98:VAL:HG22	1.98	0.46
3:s1:176:VAL:HG22	3:s1:184:LEU:HD22	1.97	0.46
6:s4:29:PRO:O	6:s4:30:ARG:HB3	2.15	0.46
12:c0:46:LEU:HA	12:c0:49:LEU:HB2	1.98	0.46
17:c5:86:VAL:HB	17:c5:87:PRO:HD2	1.98	0.46
20:c8:8:GLN:O	20:c8:10:SER:N	2.48	0.46
30:d8:19:THR:HB	30:d8:20:GLY:H	1.55	0.46
34:sR:148:ASN:O	34:sR:149:ASP:HB2	2.16	0.46
36:5:102:C:O5'	36:5:102:C:H6	1.99	0.46
36:5:1145:G:OP1	68:o2:44:ARG:NH1	2.47	0.46
36:5:1615:C:H2'	36:5:1616:U:H6	1.78	0.46
36:5:2209:U:O4	86:5:3963:OHX:N4	2.49	0.46
36:5:2947:G:N2	36:5:2948:C:C2	2.84	0.46
36:5:3056:U:OP2	86:5:3942:OHX:N2	2.49	0.46
36:5:3215:A:C5'	50:m4:121:MET:HE1	2.45	0.46
36:5:3269:U:C5	43:l6:130:ILE:HG12	2.50	0.46
86:5:4066:OHX:N5	86:5:4143:OHX:N2	2.64	0.46
39:l2:101:VAL:HB	39:l2:165:VAL:HG12	1.98	0.46
44:l7:55:TYR:OH	44:l7:186:HIS:HD2	1.99	0.46
46:l9:166:ARG:HH21	46:l9:168:ARG:HH12	1.64	0.46
49:m3:123:ILE:HG22	71:o5:118:ILE:HG12	1.97	0.46
51:m5:31:ARG:HG3	51:m5:129:TYR:OH	2.16	0.46
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.51	0.46
66:o0:15:ALA:O	66:o0:19:LYS:HG2	2.15	0.46
67:o1:50:ARG:O	67:o1:93:VAL:HG23	2.16	0.46
1:2:333:A:H2'	1:2:334:G:C8	2.51	0.46
1:2:611:U:OP2	25:D3:5:LYS:HE2	2.16	0.46
1:2:1060:U:H2'	1:2:1061:A:O4'	2.16	0.46
1:2:1274:C:C5	35:SM:96:ARG:HG2	2.51	0.46
1:2:1553:G:N2	1:2:1555:A:H3'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1718:G:H2'	1:2:1719:A:O4'	2.16	0.46
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.49	0.46
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.98	0.46
13:C1:139:VAL:HG12	13:C1:140:VAL:N	2.24	0.46
19:C7:71:PHE:CD1	19:C7:73:LEU:HB3	2.51	0.46
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.50	0.46
33:E1:144:CYS:O	33:E1:146:SER:N	2.49	0.46
34:SR:44:SER:O	34:SR:58:VAL:HG22	2.16	0.46
36:1:168:U:H2'	36:1:169:U:C6	2.51	0.46
36:1:415:G:H2'	36:1:416:A:C8	2.50	0.46
36:1:1577:G:H2'	36:1:1578:C:C1'	2.45	0.46
36:1:1695:U:O2'	36:1:1749:A:N1	2.47	0.46
36:1:1807:G:H5'	63:N7:135:ARG:NH2	2.31	0.46
36:1:2139:A:H62	73:O7:4:GLY:HA3	1.81	0.46
36:1:2553:U:HO2'	70:O4:91:ARG:HE	1.63	0.46
40:L3:49:TYR:OH	40:L3:166:ILE:HD12	2.16	0.46
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.31	0.46
46:L9:2:LYS:NZ	46:L9:59:ASN:HD21	2.13	0.46
46:L9:84:LYS:O	46:L9:188:THR:HG23	2.16	0.46
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.46	0.46
52:M6:4:GLU:OE1	52:M6:4:GLU:N	2.49	0.46
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.78	0.46
67:O1:54:GLU:OE2	67:O1:54:GLU:N	2.47	0.46
1:6:312:A:N6	1:6:352:A:N3	2.64	0.46
1:6:357:G:OP2	86:6:2074:OHX:N6	2.48	0.46
1:6:765:G:C5	11:s9:149:ARG:CZ	2.99	0.46
1:6:1211:A:H1'	17:c5:99:GLY:O	2.16	0.46
1:6:1228:G:N3	1:6:1228:G:H2'	2.31	0.46
1:6:1253:U:OP1	33:e1:131:PHE:HB2	2.16	0.46
1:6:1255:G:O6	14:c2:46:ARG:HD3	2.16	0.46
6:s4:66:MET:HE1	6:s4:78:THR:HG23	1.97	0.46
7:s5:89:ILE:HD12	7:s5:90:ILE:N	2.31	0.46
11:s9:142:ASN:OD1	26:d4:64:PHE:HZ	1.98	0.46
12:c0:54:TYR:O	12:c0:68:LEU:HD12	2.16	0.46
17:c5:100:LYS:HG3	17:c5:101:ALA:N	2.31	0.46
21:c9:57:ARG:NH2	21:c9:80:TYR:CG	2.84	0.46
26:d4:29:HIS:CD2	26:d4:29:HIS:N	2.84	0.46
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.81	0.46
36:5:913:A:H2	36:5:2134:G:N3	2.14	0.46
36:5:2846:U:O2'	86:5:4052:OHX:N1	2.49	0.46
36:5:3215:A:H1'	43:l6:161:ALA:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:169:THR:HG23	40:l3:170:PRO:N	2.30	0.46
50:m4:59:ASN:O	50:m4:62:GLN:HG2	2.16	0.46
63:n7:54:THR:HG22	63:n7:57:HIS:NE2	2.31	0.46
74:o8:14:LEU:C	74:o8:16:ARG:H	2.23	0.46
1:2:5:U:C2	1:2:20:G:N2	2.83	0.46
1:2:142:G:O5'	1:2:142:G:H8	1.99	0.46
1:2:871:G:O2'	29:D7:66:PRO:HB2	2.16	0.46
1:2:1474:G:H2'	1:2:1475:A:C8	2.51	0.46
1:2:1602:C:H2'	1:2:1603:U:O4'	2.15	0.46
1:2:1785:U:OP1	16:C4:136:ARG:NH1	2.42	0.46
3:S1:176:VAL:O	3:S1:177:GLN:NE2	2.48	0.46
5:S3:66:ILE:O	5:S3:70:THR:HG23	2.16	0.46
5:S3:140:GLY:HA3	5:S3:182:LEU:HB3	1.98	0.46
6:S4:16:HIS:C	6:S4:18:TRP:H	2.24	0.46
7:S5:128:ASN:O	7:S5:131:GLN:HB3	2.16	0.46
9:S7:77:LEU:HD22	9:S7:81:LEU:HD11	1.97	0.46
16:C4:16:VAL:O	16:C4:30:VAL:HA	2.16	0.46
27:D5:70:LYS:HD2	27:D5:70:LYS:HA	1.63	0.46
34:SR:109:ASP:O	34:SR:126:SER:OG	2.16	0.46
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.16	0.46
36:1:2269:U:H2'	36:1:2271:A:OP2	2.16	0.46
36:1:2749:G:OP1	42:L5:48:LYS:NZ	2.49	0.46
86:1:4054:OHX:N4	86:1:4162:OHX:N1	2.64	0.46
38:4:131:A:H5''	61:N5:93:TYR:CE2	2.51	0.46
44:L7:89:ILE:HD12	44:L7:214:TRP:HH2	1.80	0.46
47:M0:207:GLU:C	47:M0:209:ASN:H	2.23	0.46
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.64	0.46
58:N2:76:LEU:O	58:N2:80:THR:HG23	2.16	0.46
62:N6:27:ARG:NH1	62:N6:76:LEU:O	2.42	0.46
71:O5:20:GLN:O	71:O5:23:ASP:HB2	2.15	0.46
1:6:526:A:N6	1:6:527:A:C6	2.83	0.46
1:6:869:A:H2'	1:6:870:C:O4'	2.16	0.46
1:6:934:C:H6	28:d6:11:ASN:HB3	1.80	0.46
1:6:1279:C:H2'	1:6:1280:C:O4'	2.16	0.46
1:6:1308:G:H2'	1:6:1309:C:C6	2.51	0.46
1:6:1592:A:H2'	1:6:1593:A:C8	2.51	0.46
1:6:1654:G:O2'	1:6:1746:A:N6	2.49	0.46
3:s1:222:LYS:HD3	3:s1:222:LYS:HA	1.68	0.46
7:s5:55:ASP:OD1	7:s5:57:SER:OG	2.30	0.46
7:s5:99:MET:O	7:s5:100:ASN:HB2	2.15	0.46
25:d3:41:SER:HA	25:d3:42:PRO:HD3	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:169:ILE:HG12	34:sR:183:LEU:HD21	1.98	0.46
34:sR:252:LEU:N	34:sR:263:PHE:O	2.47	0.46
36:5:286:U:H2'	36:5:287:G:H8	1.81	0.46
36:5:603:A:C5	36:5:604:G:H1'	2.51	0.46
36:5:1508:C:OP1	53:m7:127:ARG:NH2	2.48	0.46
36:5:1819:U:O4	86:5:4050:OHX:N3	2.49	0.46
36:5:1940:G:H2'	36:5:1941:C:O4'	2.16	0.46
86:5:4035:OHX:N6	86:5:4237:OHX:N5	2.64	0.46
39:l2:79:ASN:ND2	39:l2:165:VAL:HG23	2.31	0.46
42:l5:195:LEU:O	42:l5:199:ILE:HG13	2.16	0.46
48:m1:174:LYS:O	48:m1:174:LYS:NZ	2.34	0.46
49:m3:64:LYS:HD3	49:m3:65:TYR:CZ	2.50	0.46
50:m4:113:THR:HG22	50:m4:116:GLU:HB2	1.98	0.46
52:m6:83:ALA:O	52:m6:87:MET:HG3	2.16	0.46
52:m6:84:LEU:HD22	52:m6:102:LEU:HD22	1.98	0.46
59:n3:86:ARG:HG3	59:n3:92:PHE:CE2	2.51	0.46
82:p0:102:SER:OG	82:p0:103:ASN:N	2.47	0.46
1:2:404:G:P	8:S6:88:ARG:HH12	2.40	0.45
1:2:808:U:H2'	1:2:809:A:C8	2.50	0.45
1:2:1746:A:H2'	1:2:1747:G:O4'	2.16	0.45
2:S0:6:THR:C	2:S0:8:ASP:H	2.24	0.45
3:S1:101:HIS:C	3:S1:217:LEU:HD13	2.41	0.45
3:S1:111:ARG:CG	28:D6:68:TYR:HB2	2.45	0.45
5:S3:142:LEU:HB2	35:SM:110:TRP:CE2	2.51	0.45
10:S8:39:GLY:N	10:S8:60:ILE:O	2.34	0.45
10:S8:72:ILE:HD13	10:S8:112:TRP:CD2	2.50	0.45
10:S8:196:LEU:HD12	10:S8:196:LEU:HA	1.71	0.45
15:C3:23:PRO:HB2	15:C3:26:PHE:H	1.81	0.45
15:C3:103:GLU:HA	15:C3:106:ARG:NH2	2.31	0.45
16:C4:16:VAL:HG22	16:C4:33:LEU:HA	1.98	0.45
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.96	0.45
27:D5:94:LYS:HG2	27:D5:95:HIS:HB3	1.98	0.45
35:SM:22:PRO:HB3	48:M1:38:GLU:OE1	2.16	0.45
36:1:158:G:H2'	36:1:159:A:C8	2.51	0.45
36:1:848:A:H2'	36:1:849:C:O4'	2.16	0.45
36:1:979:U:H1'	36:1:980:A:C8	2.51	0.45
36:1:1340:G:H2'	36:1:1341:U:H6	1.81	0.45
36:1:1807:G:C6	36:1:1808:G:N1	2.84	0.45
36:1:3326:G:H2'	36:1:3327:G:H8	1.81	0.45
40:L3:221:THR:HB	40:L3:273:HIS:O	2.16	0.45
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:91:PHE:O	45:L8:95:ASN:HB2	2.17	0.45
45:L8:156:ASP:O	45:L8:157:VAL:HB	2.16	0.45
55:M9:105:LEU:HD13	55:M9:138:LEU:HD12	1.98	0.45
66:O0:46:ALA:HB2	66:O0:72:GLY:H	1.80	0.45
74:O8:78:LEU:HA	74:O8:78:LEU:HD13	1.58	0.45
1:6:144:U:H5	8:s6:137:ARG:NH1	2.14	0.45
1:6:1103:U:O2'	1:6:1104:U:H5'	2.16	0.45
1:6:1217:A:H5''	12:c0:44:LYS:HG3	1.98	0.45
1:6:1365:C:O3'	18:c6:30:LYS:NZ	2.42	0.45
86:6:2125:OHX:N2	86:6:2149:OHX:N4	2.63	0.45
86:6:2170:OHX:N2	16:c4:129:LYS:HE2	2.31	0.45
4:s2:35:TRP:CZ3	4:s2:46:LYS:HB2	2.51	0.45
6:s4:36:HIS:CD2	6:s4:85:GLY:HA3	2.52	0.45
9:s7:55:LYS:HB3	9:s7:55:LYS:HE2	1.70	0.45
9:s7:64:VAL:HG22	9:s7:94:ALA:HB1	1.98	0.45
12:c0:27:PHE:O	12:c0:28:ASN:HB2	2.16	0.45
14:c2:85:LYS:C	14:c2:87:PRO:HD3	2.41	0.45
16:c4:108:SER:O	16:c4:110:LEU:N	2.41	0.45
20:c8:61:LEU:HB3	20:c8:66:LEU:HD21	1.97	0.45
20:c8:116:LEU:HD22	20:c8:116:LEU:H	1.82	0.45
23:d1:65:SER:O	23:d1:69:LEU:HB2	2.16	0.45
36:5:69:C:H2'	36:5:70:A:O4'	2.16	0.45
36:5:73:C:C2	49:m3:59:ARG:HD3	2.51	0.45
36:5:1276:U:H2'	36:5:1277:C:H6	1.80	0.45
36:5:1555:U:H5	36:5:1557:A:N7	2.14	0.45
36:5:2282:U:O2	36:5:2310:U:H4'	2.16	0.45
36:5:2584:G:H5''	36:5:2584:G:C8	2.44	0.45
36:5:3153:U:H1'	36:5:3154:C:C6	2.51	0.45
36:5:3159:C:H2'	36:5:3160:U:C6	2.51	0.45
38:8:78:G:H2'	38:8:79:A:O4'	2.15	0.45
39:l2:29:LEU:HD12	39:l2:123:ARG:HA	1.97	0.45
39:l2:92:LYS:HA	39:l2:103:PRO:CD	2.46	0.45
40:l3:194:TRP:CE2	40:l3:198:HIS:CE1	3.04	0.45
42:l5:268:GLU:C	42:l5:270:LYS:N	2.74	0.45
43:l6:173:MET:HE3	43:l6:173:MET:HB3	1.53	0.45
44:l7:77:VAL:HG21	57:n1:139:ARG:HD3	1.98	0.45
45:l8:32:LYS:HD3	45:l8:32:LYS:HA	1.87	0.45
49:m3:166:ALA:N	64:n8:135:GLU:OE1	2.37	0.45
63:n7:76:ASN:HB3	63:n7:79:HIS:ND1	2.31	0.45
63:n7:97:SER:CB	63:n7:99:GLU:HG2	2.37	0.45
64:n8:73:LEU:HD11	64:n8:78:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:85:VAL:O	70:o4:89:ILE:HG13	2.16	0.45
73:o7:2:GLY:O	73:o7:7:SER:HB3	2.15	0.45
75:o9:21:ARG:HD3	75:o9:22:PRO:O	2.16	0.45
76:q0:113:ARG:O	76:q0:113:ARG:HG3	2.15	0.45
79:q3:7:LYS:O	79:q3:27:LYS:NZ	2.45	0.45
79:q3:19:GLY:O	79:q3:20:SER:C	2.59	0.45
1:2:17:C:H2'	1:2:18:C:C6	2.51	0.45
1:2:66:U:O3'	8:S6:171:LYS:NZ	2.49	0.45
1:2:398:G:OP2	10:S8:47:ARG:NH1	2.49	0.45
1:2:454:U:H5''	1:2:455:C:H5	1.81	0.45
1:2:1202:A:H3'	1:2:1202:A:N3	2.31	0.45
1:2:1545:A:H2'	1:2:1546:G:H8	1.81	0.45
2:S0:119:ARG:HB3	2:S0:119:ARG:NH1	2.32	0.45
6:S4:65:LEU:HD23	6:S4:79:ASP:H	1.82	0.45
7:S5:30:PRO:O	7:S5:33:VAL:HB	2.16	0.45
7:S5:64:VAL:O	7:S5:65:ARG:HB2	2.17	0.45
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.16	0.45
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.80	0.45
12:C0:79:TYR:O	12:C0:79:TYR:HD1	1.99	0.45
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.97	0.45
20:C8:136:GLN:H	20:C8:136:GLN:HG2	1.33	0.45
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.80	0.45
26:D4:56:SER:O	26:D4:74:LEU:N	2.43	0.45
34:SR:70:ASP:CB	34:SR:112:SER:HA	2.45	0.45
36:1:1593:A:N3	36:1:1615:C:O2'	2.47	0.45
36:1:1639:C:H5'	70:O4:52:GLN:HG3	1.99	0.45
36:1:2680:A:C2	48:M1:24:GLY:HA2	2.51	0.45
37:3:28:C:H1'	37:3:55:A:H61	1.81	0.45
37:3:48:U:O4	42:L5:58:LYS:HE2	2.16	0.45
38:4:11:C:OP2	86:4:238:OHX:N1	2.50	0.45
41:L4:292:SER:OG	41:L4:293:SER:N	2.49	0.45
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.16	0.45
43:L6:50:LYS:HG2	43:L6:74:VAL:CG2	2.46	0.45
49:M3:191:ALA:C	49:M3:193:ALA:H	2.21	0.45
52:M6:119:VAL:HG23	56:N0:164:SER:HB3	1.98	0.45
54:M8:49:LEU:O	54:M8:49:LEU:HD22	2.15	0.45
55:M9:167:ARG:HA	55:M9:170:ARG:HB3	1.98	0.45
69:O3:7:LEU:HD23	69:O3:7:LEU:HA	1.70	0.45
1:6:8:U:O2'	86:6:2071:OHX:N2	2.49	0.45
1:6:856:A:N6	9:s7:96:ARG:HB3	2.30	0.45
1:6:1054:U:H2'	1:6:1055:U:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1147:A:H2'	1:6:1148:C:O4'	2.16	0.45
1:6:1535:U:H5	7:s5:185:ARG:C	2.24	0.45
1:6:1696:G:N2	1:6:1704:U:H3	2.14	0.45
11:s9:125:ALA:O	11:s9:129:ILE:HG13	2.16	0.45
11:s9:182:GLU:HG3	11:s9:183:ALA:N	2.30	0.45
18:c6:79:TYR:O	18:c6:82:ARG:HG2	2.15	0.45
20:c8:120:ARG:HE	35:sM:61:ILE:HG21	1.81	0.45
25:d3:134:ALA:HB1	25:d3:140:LYS:HB2	1.98	0.45
27:d5:54:VAL:HA	27:d5:57:TYR:CD1	2.51	0.45
30:d8:5:THR:O	30:d8:7:VAL:N	2.49	0.45
35:sM:65:THR:C	35:sM:67:GLY:H	2.24	0.45
36:5:621:A:H2'	36:5:622:A:H8	1.81	0.45
36:5:686:G:H1	36:5:694:C:H42	1.65	0.45
36:5:1313:G:O6	86:5:4163:OHX:N6	2.49	0.45
36:5:1473:G:OP2	55:m9:8:LYS:NZ	2.50	0.45
36:5:1597:C:H2'	36:5:1598:G:H8	1.81	0.45
36:5:2659:G:H4'	36:5:2751:G:O2'	2.16	0.45
36:5:3275:U:O4	69:o3:60:ARG:HD3	2.15	0.45
86:5:4011:OHX:N6	86:5:4201:OHX:N5	2.64	0.45
42:l5:92:LEU:HA	42:l5:92:LEU:HD23	1.54	0.45
42:l5:271:LYS:HA	42:l5:271:LYS:HD3	1.41	0.45
44:l7:39:GLU:HG3	44:l7:43:ILE:HD12	1.99	0.45
51:m5:47:LYS:HE3	51:m5:51:LEU:HD11	1.97	0.45
51:m5:153:ASP:OD2	51:m5:155:VAL:HG23	2.17	0.45
60:n4:82:ILE:O	60:n4:82:ILE:HG22	2.17	0.45
63:n7:23:VAL:HG12	63:n7:45:GLY:HA3	1.97	0.45
63:n7:81:LEU:HA	63:n7:81:LEU:HD22	1.44	0.45
78:q2:48:SER:O	86:q2:502:OHX:N3	2.49	0.45
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.49	0.45
1:2:1511:U:H2'	1:2:1512:G:C8	2.52	0.45
3:S1:117:TRP:HE1	3:S1:152:ARG:NE	2.14	0.45
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.51	0.45
7:S5:35:GLN:HB3	7:S5:36:ALA:H	1.44	0.45
8:S6:206:ALA:O	8:S6:210:GLN:HG3	2.16	0.45
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.51	0.45
19:C7:87:GLU:HG2	19:C7:88:VAL:O	2.15	0.45
25:D3:42:PRO:O	25:D3:79:ASN:ND2	2.48	0.45
34:SR:133:VAL:CG2	34:SR:142:ALA:HB3	2.47	0.45
36:1:1018:G:N7	36:1:1035:G:N2	2.65	0.45
36:1:1110:U:H2'	36:1:1111:U:C6	2.51	0.45
36:1:1397:C:C2'	36:1:1398:U:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2303:A:P	77:Q1:23:ARG:HH22	2.40	0.45
36:1:3181:C:O2'	52:M6:164:SER:HB3	2.16	0.45
36:1:3183:A:H2'	36:1:3184:A:C8	2.49	0.45
86:1:4054:OHX:N6	86:1:4162:OHX:N5	2.64	0.45
41:L4:337:GLU:O	41:L4:339:LEU:N	2.49	0.45
66:O0:99:ASP:O	66:O0:103:THR:HG23	2.16	0.45
71:O5:101:THR:HG22	71:O5:104:GLN:H	1.82	0.45
1:6:72:A:H5'	1:6:73:U:OP2	2.16	0.45
1:6:697:C:OP2	86:6:2073:OHX:N5	2.50	0.45
1:6:808:U:H2'	1:6:809:A:C8	2.51	0.45
1:6:1366:U:P	18:c6:30:LYS:HZ3	2.40	0.45
1:6:1504:G:OP1	21:c9:97:SER:OG	2.24	0.45
2:s0:110:TYR:O	2:s0:112:THR:N	2.49	0.45
5:s3:117:ARG:HH21	35:sM:126:ASP:CB	2.29	0.45
6:s4:118:GLU:C	6:s4:120:SER:N	2.71	0.45
10:s8:82:VAL:HG22	10:s8:196:LEU:HD21	1.97	0.45
11:s9:66:ASP:HA	11:s9:67:PRO:HD2	1.55	0.45
13:c1:22:ASN:OD1	13:c1:24:LYS:HB2	2.16	0.45
17:c5:56:PHE:CD1	17:c5:83:MET:HE1	2.51	0.45
34:sR:74:THR:O	34:sR:76:ASP:N	2.49	0.45
36:5:683:U:OP1	51:m5:204:LYS:NZ	2.33	0.45
36:5:685:G:OP1	49:m3:35:ARG:NH1	2.49	0.45
36:5:1018:G:H2'	36:5:1019:G:O4'	2.16	0.45
36:5:1155:C:H2'	36:5:1156:C:C6	2.52	0.45
36:5:1818:U:H2'	36:5:1819:U:C6	2.50	0.45
36:5:3340:G:H4'	36:5:3341:U:OP1	2.17	0.45
40:l3:233:TRP:CD1	40:l3:265:ALA:HB1	2.51	0.45
46:l9:90:MET:O	46:l9:91:ARG:HD2	2.15	0.45
81:m2:125:UNK:C	81:m2:127:UNK:N	2.78	0.45
49:m3:161:ASP:HB2	64:n8:144:VAL:HG11	1.97	0.45
51:m5:66:VAL:O	51:m5:127:TYR:HA	2.16	0.45
51:m5:98:LEU:HD23	51:m5:128:LYS:HG3	1.99	0.45
51:m5:154:PRO:O	51:m5:157:LYS:HG3	2.16	0.45
53:m7:32:THR:O	53:m7:35:ALA:HB3	2.16	0.45
57:n1:96:ILE:HD13	57:n1:96:ILE:HA	1.58	0.45
60:n4:122:ALA:O	60:n4:125:ALA:HB3	2.17	0.45
68:o2:122:PRO:O	68:o2:123:LYS:HB2	2.16	0.45
69:o3:6:ARG:HG3	69:o3:8:TYR:CE1	2.51	0.45
1:2:306:U:H2'	1:2:307:G:C8	2.51	0.45
1:2:314:C:C2	1:2:355:G:C2	3.04	0.45
1:2:387:A:H8	1:2:387:A:OP2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:473:A:H4'	1:2:768:C:O2	2.17	0.45
1:2:1180:C:O2'	17:C5:128:HIS:ND1	2.49	0.45
1:2:1584:G:H5'	18:C6:123:ARG:H	1.82	0.45
2:S0:36:TYR:OH	23:D1:66:ASP:OD2	2.19	0.45
7:S5:20:PHE:CD2	7:S5:35:GLN:HG3	2.51	0.45
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.99	0.45
8:S6:12:SER:C	8:S6:13:GLN:HG2	2.41	0.45
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.97	0.45
8:S6:193:LEU:HD23	8:S6:193:LEU:HA	1.77	0.45
12:C0:46:LEU:HD13	12:C0:46:LEU:HA	1.80	0.45
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.68	0.45
18:C6:58:ASP:OD2	18:C6:59:LYS:HE2	2.16	0.45
33:E1:116:LYS:NZ	33:E1:120:GLU:OE2	2.38	0.45
36:1:176:G:H1	36:1:242:C:N4	2.14	0.45
36:1:269:G:O6	86:1:4078:OHX:N3	2.49	0.45
36:1:501:A:H2'	36:1:502:U:C6	2.51	0.45
36:1:1734:G:H2'	36:1:1735:G:O4'	2.17	0.45
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.49	0.45
36:1:2622:C:C2'	36:1:2623:G:H5'	2.47	0.45
37:3:7:G:H5''	42:L5:22:ARG:HD3	1.98	0.45
37:3:7:G:OP2	42:L5:22:ARG:NH2	2.49	0.45
39:L2:192:LYS:HB3	39:L2:193:ARG:CZ	2.47	0.45
40:L3:41:VAL:CG2	40:L3:186:GLY:H	2.29	0.45
40:L3:169:THR:HG23	40:L3:170:PRO:HD2	1.97	0.45
41:L4:180:LYS:HE2	41:L4:180:LYS:HB3	1.73	0.45
42:L5:132:THR:HG21	42:L5:170:GLY:C	2.42	0.45
44:L7:40:LYS:HB2	44:L7:40:LYS:HE3	1.62	0.45
44:L7:224:ILE:HG12	44:L7:224:ILE:H	1.43	0.45
45:L8:206:GLU:H	45:L8:206:GLU:HG3	1.42	0.45
47:M0:152:LEU:HD23	47:M0:152:LEU:HA	1.82	0.45
49:M3:168:ARG:O	49:M3:168:ARG:HG3	2.14	0.45
50:M4:98:SER:O	50:M4:102:LYS:HB2	2.15	0.45
55:M9:31:GLU:O	55:M9:34:GLN:HG3	2.16	0.45
69:O3:102:LEU:HA	69:O3:102:LEU:HD23	1.65	0.45
72:O6:11:LEU:HD22	72:O6:11:LEU:N	2.32	0.45
1:6:197:A:H2'	1:6:198:A:C8	2.52	0.45
1:6:768:C:H1'	11:s9:143:ILE:HG21	1.98	0.45
1:6:810:G:N2	9:s7:111:LYS:H	2.14	0.45
3:s1:134:VAL:HG12	3:s1:218:LEU:HB2	1.99	0.45
4:s2:230:TRP:CE2	24:d2:68:ARG:HD3	2.51	0.45
11:s9:142:ASN:C	11:s9:142:ASN:ND2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d1:71:ARG:HG3	23:d1:83:TRP:CZ2	2.52	0.45
25:d3:73:ARG:HG2	25:d3:84:THR:HB	1.98	0.45
36:5:209:A:H4'	36:5:211:A:C8	2.51	0.45
36:5:420:G:OP2	36:5:420:G:OP1	2.34	0.45
36:5:553:U:C2'	36:5:554:A:H5'	2.46	0.45
36:5:823:C:H5'	39:l2:19:HIS:ND1	2.31	0.45
36:5:1204:A:C2'	36:5:1205:A:H5'	2.45	0.45
36:5:1597:C:H2'	36:5:1598:G:C8	2.51	0.45
36:5:1815:U:O2'	36:5:1816:A:P	2.74	0.45
36:5:1875:G:OP2	55:m9:20:ARG:HG2	2.16	0.45
36:5:2263:C:OP1	86:5:3957:OHX:N2	2.49	0.45
36:5:2943:G:C8	40:l3:2:SER:N	2.85	0.45
36:5:3266:G:C6	36:5:3267:A:C6	3.04	0.45
37:7:63:A:OP2	42:l5:282:ARG:HD3	2.17	0.45
38:8:145:U:H2'	38:8:146:U:O4'	2.16	0.45
39:l2:209:HIS:CG	39:l2:210:PRO:HD2	2.50	0.45
40:l3:332:ARG:O	40:l3:333:LYS:HB2	2.15	0.45
42:l5:95:TRP:O	42:l5:98:ALA:HB3	2.16	0.45
47:m0:161:GLY:O	47:m0:163:GLN:NE2	2.50	0.45
50:m4:42:LYS:HB3	50:m4:42:LYS:HE2	1.63	0.45
78:q2:38:GLN:HA	78:q2:38:GLN:HE21	1.80	0.45
78:q2:50:PHE:O	86:q2:502:OHX:N1	2.50	0.45
1:2:638:U:OP2	24:D2:32:LYS:HD3	2.17	0.45
1:2:775:G:N7	26:D4:11:LYS:NZ	2.64	0.45
1:2:812:A:C8	1:2:858:G:N2	2.85	0.45
1:2:884:A:H2'	1:2:885:G:C8	2.50	0.45
1:2:1066:C:O3'	3:S1:149:GLN:HG3	2.17	0.45
1:2:1143:A:O2'	1:2:1144:U:H5'	2.17	0.45
3:S1:212:VAL:O	3:S1:214:LYS:N	2.50	0.45
4:S2:76:LEU:HD12	4:S2:76:LEU:HA	1.70	0.45
7:S5:66:GLN:CD	7:S5:66:GLN:H	2.23	0.45
13:C1:67:ARG:HD3	13:C1:67:ARG:N	2.31	0.45
16:C4:117:ASP:CG	16:C4:119:THR:HG1	2.25	0.45
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.81	0.45
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.78	0.45
34:SR:176:LYS:C	34:SR:199:ILE:HD11	2.42	0.45
35:SM:25:ILE:HG22	48:M1:46:VAL:HB	1.98	0.45
36:1:90:C:O2'	36:1:282:G:OP1	2.33	0.45
36:1:160:G:H1	36:1:261:U:H3	1.64	0.45
36:1:980:A:H2'	36:1:981:U:N1	2.31	0.45
36:1:1556:C:O2	36:1:1556:C:H5''	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:361:THR:HG22	40:L3:371:GLN:OE1	2.16	0.45
41:L4:169:LEU:HD11	41:L4:219:LEU:HD21	1.99	0.45
42:L5:21:ARG:HA	42:L5:24:ARG:NH2	2.31	0.45
43:L6:47:PHE:CD1	43:L6:74:VAL:HG22	2.51	0.45
51:M5:138:GLN:HA	51:M5:143:ARG:NH1	2.32	0.45
54:M8:57:ILE:C	54:M8:59:ARG:H	2.23	0.45
70:O4:58:ARG:HH11	70:O4:58:ARG:CG	2.28	0.45
1:6:17:C:H2'	1:6:18:C:C6	2.52	0.45
1:6:72:A:H2'	1:6:73:U:C1'	2.46	0.45
1:6:116:U:O2	1:6:333:A:H2	2.00	0.45
1:6:568:G:N7	25:d3:69:ARG:NH2	2.64	0.45
1:6:1031:U:H4'	1:6:1032:G:OP2	2.17	0.45
1:6:1275:A:H8	1:6:1275:A:OP2	1.99	0.45
1:6:1460:A:O3'	35:sM:72:ARG:NH1	2.50	0.45
1:6:1542:G:H22	1:6:1568:C:H1'	1.78	0.45
14:c2:132:GLU:H	14:c2:132:GLU:HG2	1.54	0.45
18:c6:126:PRO:O	18:c6:128:LYS:HE3	2.16	0.45
21:c9:40:SER:HB2	21:c9:96:ALA:HA	1.98	0.45
24:d2:102:VAL:H	24:d2:113:HIS:CD2	2.34	0.45
35:sM:43:ASP:HA	35:sM:44:PRO:HD3	1.71	0.45
36:5:216:G:OP1	62:n6:16:ARG:NH1	2.49	0.45
36:5:406:G:N3	38:8:16:G:C2	2.85	0.45
36:5:731:U:O5'	36:5:731:U:H6	1.99	0.45
36:5:2155:G:OP1	39:l2:241:ARG:HG2	2.17	0.45
36:5:2261:G:O2'	36:5:2263:C:N4	2.49	0.45
36:5:3134:A:OP1	86:5:3926:OHX:N5	2.50	0.45
39:l2:52:SER:HB3	39:l2:191:LEU:HD12	1.97	0.45
42:l5:178:ASN:OD1	42:l5:178:ASN:N	2.47	0.45
42:l5:242:SER:O	42:l5:245:GLU:HB2	2.16	0.45
43:l6:171:PRO:C	43:l6:173:MET:H	2.24	0.45
48:m1:38:GLU:C	48:m1:40:LEU:H	2.25	0.45
49:m3:59:ARG:O	49:m3:60:ALA:HB3	2.16	0.45
51:m5:22:LEU:HD12	51:m5:22:LEU:HA	1.71	0.45
52:m6:28:LEU:HD22	52:m6:94:ARG:NH2	2.32	0.45
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.47	0.45
59:n3:67:PRO:C	59:n3:69:LEU:H	2.24	0.45
59:n3:84:SER:HA	59:n3:94:TYR:HB3	1.99	0.45
68:o2:81:ASP:O	68:o2:84:THR:OG1	2.32	0.45
69:o3:8:TYR:CD2	69:o3:99:ARG:HG2	2.52	0.45
1:2:14:C:O2'	1:2:619:A:N1	2.42	0.45
1:2:143:G:H2'	1:2:144:U:H5''	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:154:G:H5'	8:S6:108:VAL:HG21	1.99	0.45
1:2:386:G:O2'	1:2:387:A:H5'	2.17	0.45
1:2:1609:U:OP2	18:C6:14:LYS:NZ	2.50	0.45
1:2:1738:U:H2'	1:2:1739:C:C6	2.52	0.45
2:S0:59:LEU:HD12	2:S0:59:LEU:HA	1.76	0.45
3:S1:58:SER:C	3:S1:62:LYS:HZ2	2.25	0.45
6:S4:246:LEU:HD23	6:S4:254:ARG:CZ	2.46	0.45
7:S5:80:LYS:HB2	7:S5:83:ARG:HH12	1.82	0.45
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	1.99	0.45
15:C3:88:LEU:O	15:C3:88:LEU:HD22	2.17	0.45
20:C8:2:SER:N	27:D5:78:ILE:HG13	2.31	0.45
28:D6:24:VAL:HG12	28:D6:72:HIS:O	2.16	0.45
34:SR:164:ASP:O	34:SR:166:SER:N	2.48	0.45
36:1:95:A:C5	36:1:96:G:H1'	2.52	0.45
36:1:945:C:H2'	36:1:946:U:C6	2.52	0.45
36:1:2586:G:C5	45:L8:241:LYS:HB2	2.51	0.45
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.99	0.45
41:L4:219:LEU:HD23	41:L4:219:LEU:HA	1.62	0.45
43:L6:50:LYS:HG2	43:L6:74:VAL:HG21	1.98	0.45
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	2.52	0.45
48:M1:150:ASN:O	48:M1:152:HIS:N	2.46	0.45
49:M3:33:VAL:HG12	49:M3:34:SER:N	2.30	0.45
52:M6:32:LYS:HA	52:M6:101:ARG:HB3	1.99	0.45
52:M6:138:LEU:HD12	52:M6:138:LEU:HA	1.55	0.45
54:M8:11:LYS:HB2	54:M8:11:LYS:HE3	1.80	0.45
66:O0:58:TYR:OH	70:O4:97:GLU:OE2	2.30	0.45
69:O3:35:VAL:HG13	69:O3:40:ASP:HB3	1.99	0.45
69:O3:53:TYR:CZ	69:O3:65:ARG:HB2	2.52	0.45
1:6:626:U:H2'	1:6:627:C:C6	2.49	0.45
1:6:741:C:O2'	9:s7:107:ARG:NH1	2.48	0.45
1:6:888:U:H1'	16:c4:126:THR:HG21	1.96	0.45
1:6:1609:U:H2'	1:6:1610:G:O4'	2.17	0.45
7:s5:177:ILE:HD12	7:s5:180:ARG:HH22	1.81	0.45
16:c4:18:ARG:HH21	16:c4:31:THR:HG21	1.82	0.45
18:c6:38:LEU:HD23	18:c6:38:LEU:HA	1.68	0.45
21:c9:57:ARG:HH22	21:c9:80:TYR:HB3	1.81	0.45
24:d2:86:ILE:HD11	24:d2:122:SER:OG	2.17	0.45
35:sM:46:LYS:HA	36:5:1018:G:H4'	1.99	0.45
36:5:5:G:C2	38:8:155:A:C2	3.05	0.45
36:5:59:G:H2'	38:8:33:A:O2'	2.16	0.45
36:5:600:G:N2	36:5:603:A:OP2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1064:A:H4'	36:5:1065:A:O5'	2.15	0.45
36:5:1080:A:P	42:15:140:ARG:HH21	2.40	0.45
36:5:1276:U:OP2	86:5:4007:OHX:N1	2.49	0.45
36:5:1915:A:H2'	36:5:1916:U:C6	2.52	0.45
36:5:3089:C:H2'	36:5:3090:U:O4'	2.17	0.45
36:5:3242:G:H5''	36:5:3245:A:H8	1.79	0.45
40:13:56:ILE:HD12	40:13:56:ILE:HA	1.64	0.45
40:13:345:ASN:OD1	40:13:347:SER:HB2	2.17	0.45
41:14:31:ARG:HB3	41:14:34:ILE:HG13	1.99	0.45
49:m3:158:ALA:O	64:n8:124:ILE:HD11	2.16	0.45
55:m9:4:LEU:HD22	55:m9:7:GLN:HG3	1.99	0.45
58:n2:50:LEU:O	58:n2:52:ASN:N	2.47	0.45
61:n5:50:ALA:HB2	71:o5:79:ASP:HB2	1.98	0.45
62:n6:82:VAL:O	62:n6:84:LYS:N	2.49	0.45
71:o5:63:ARG:HG2	71:o5:63:ARG:H	1.56	0.45
74:o8:64:LYS:HG3	74:o8:65:LEU:N	2.31	0.45
1:2:412:A:H2'	1:2:413:U:H6	1.81	0.45
1:2:1541:G:C5	1:2:1542:G:C6	3.05	0.45
1:2:1636:C:C2	1:2:1638:G:C5	3.05	0.45
1:2:1781:A:H2'	1:2:1782:A:O4'	2.16	0.45
2:S0:2:SER:O	2:S0:4:PRO:HD3	2.16	0.45
2:S0:53:THR:HA	2:S0:161:PRO:HG2	1.99	0.45
4:S2:90:THR:O	4:S2:92:ALA:N	2.49	0.45
4:S2:147:ASN:O	23:D1:4:ASP:N	2.37	0.45
5:S3:167:PHE:HB3	5:S3:189:MET:HE3	1.98	0.45
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.50	0.45
13:C1:58:CYS:HA	13:C1:59:PRO:HD2	1.83	0.45
15:C3:27:LYS:H	15:C3:27:LYS:HE3	1.81	0.45
15:C3:28:LEU:HA	15:C3:28:LEU:HD23	1.82	0.45
28:D6:39:MET:HE2	28:D6:70:LYS:HG3	1.99	0.45
36:1:1063:G:C6	36:1:1097:G:C5	3.05	0.45
36:1:1345:G:H5''	36:1:1345:G:H8	1.81	0.45
36:1:2195:C:O5'	36:1:2195:C:H6	2.00	0.45
36:1:2800:G:O6	64:N8:42:ARG:NH2	2.43	0.45
36:1:2827:U:O4	86:1:3865:OHX:N4	2.49	0.45
36:1:3011:A:C5	40:L3:13:HIS:CD2	3.04	0.45
86:1:4026:OHX:N2	86:1:4146:OHX:N5	2.64	0.45
86:1:4131:OHX:N5	86:1:4163:OHX:N6	2.64	0.45
37:3:45:A:H2'	37:3:46:A:C8	2.51	0.45
40:L3:199:PHE:C	40:L3:201:LYS:H	2.23	0.45
41:L4:318:LEU:HD23	41:L4:318:LEU:HA	1.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.34	0.45
46:L9:38:LEU:HD23	46:L9:38:LEU:HA	1.74	0.45
57:N1:160:ILE:HD13	57:N1:160:ILE:HA	1.73	0.45
63:N7:88:ASP:CG	63:N7:89:VAL:N	2.75	0.45
72:O6:25:LYS:HG3	72:O6:28:TYR:HE2	1.82	0.45
72:O6:59:ASP:O	72:O6:63:ASN:HB2	2.17	0.45
1:6:478:A:H4'	11:s9:127:VAL:HG21	1.97	0.45
1:6:804:A:H2'	1:6:805:U:H6	1.82	0.45
1:6:1135:U:H2'	1:6:1136:U:C6	2.52	0.45
1:6:1332:C:H42	1:6:1419:G:H1	1.64	0.45
5:s3:51:ARG:HA	5:s3:89:GLU:HB2	1.99	0.45
7:s5:28:PRO:O	7:s5:29:ILE:HB	2.17	0.45
12:c0:38:LYS:HB2	12:c0:41:TYR:CD2	2.52	0.45
15:c3:33:VAL:HG21	15:c3:66:ILE:HD11	1.97	0.45
15:c3:119:GLU:O	15:c3:123:HIS:ND1	2.33	0.45
22:d0:99:ILE:O	22:d0:103:ILE:HB	2.17	0.45
23:d1:5:LYS:O	23:d1:7:GLN:N	2.49	0.45
24:d2:70:ASN:HB2	24:d2:130:TYR:O	2.17	0.45
36:5:428:A:H2'	36:5:429:U:C6	2.52	0.45
36:5:602:A:H2'	36:5:603:A:C8	2.52	0.45
36:5:628:A:H2'	36:5:629:U:O4'	2.17	0.45
36:5:1003:A:H1'	42:l5:15:ARG:CZ	2.47	0.45
36:5:1238:C:O2'	36:5:1239:C:OP1	2.26	0.45
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.97	0.45
37:7:27:A:C2	37:7:28:C:C2	3.05	0.45
40:l3:139:GLN:C	40:l3:141:GLY:H	2.24	0.45
41:l4:52:VAL:HB	41:l4:99:MET:HE2	1.98	0.45
41:l4:282:SER:OG	41:l4:283:THR:N	2.50	0.45
43:l6:58:LEU:HD12	43:l6:78:ARG:HD3	1.98	0.45
50:m4:20:VAL:HG22	50:m4:68:LEU:O	2.16	0.45
52:m6:193:GLN:O	52:m6:196:ALA:HB3	2.17	0.45
56:n0:166:LYS:HB2	56:n0:166:LYS:HE3	1.72	0.45
66:o0:12:GLN:O	66:o0:15:ALA:HB3	2.16	0.45
67:o1:46:THR:O	67:o1:87:ASN:ND2	2.47	0.45
68:o2:103:LYS:O	68:o2:106:VAL:HG13	2.17	0.45
70:o4:58:ARG:O	70:o4:61:GLN:HG2	2.16	0.45
74:o8:40:GLN:HG3	74:o8:57:ASN:OD1	2.17	0.45
78:q2:73:GLU:HG3	78:q2:80:ARG:HH11	1.82	0.45
82:p0:97:LYS:HG3	82:p0:98:ASN:N	2.30	0.45
1:2:649:U:O2'	1:2:650:U:H6	2.00	0.45
1:2:848:C:H2'	1:2:849:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1513:G:O2'	1:2:1515:A:N3	2.43	0.45
1:2:1556:A:C5	1:2:1560:U:C2	3.05	0.45
17:C5:28:MET:O	17:C5:29:SER:HB3	2.17	0.45
24:D2:6:VAL:CG1	24:D2:29:PRO:HD2	2.40	0.45
36:1:341:G:N7	41:L4:195:ARG:NH2	2.63	0.45
36:1:1581:C:O2	36:1:1582:C:H5'	2.16	0.45
36:1:1915:A:H2'	36:1:1916:U:H6	1.81	0.45
36:1:2444:C:H3'	36:1:2445:A:H5''	1.99	0.45
36:1:2633:U:H2'	36:1:2634:U:O4'	2.17	0.45
36:1:3316:A:OP1	36:1:3318:G:N2	2.48	0.45
37:3:106:U:H2'	37:3:107:C:C6	2.52	0.45
38:4:85:G:C8	38:4:85:G:C3'	3.00	0.45
40:L3:36:ASP:OD1	40:L3:38:SER:OG	2.32	0.45
45:L8:134:TYR:CD2	45:L8:190:VAL:HG21	2.52	0.45
48:M1:53:THR:HG23	48:M1:59:ILE:O	2.16	0.45
59:N3:45:ARG:O	59:N3:46:LEU:C	2.59	0.45
63:N7:45:GLY:HA3	63:N7:71:PHE:CZ	2.52	0.45
64:N8:75:LEU:HD13	64:N8:118:ILE:HD13	1.97	0.45
65:N9:32:LEU:O	65:N9:35:VAL:HB	2.17	0.45
1:6:63:G:H4'	1:6:170:U:C5	2.52	0.45
1:6:350:U:H5''	1:6:352:A:H5'	1.99	0.45
3:s1:145:LYS:HA	3:s1:149:GLN:NE2	2.32	0.45
5:s3:26:THR:O	5:s3:30:ALA:HB2	2.16	0.45
5:s3:160:SER:OG	5:s3:161:GLY:N	2.47	0.45
5:s3:217:ILE:HB	5:s3:218:LEU:H	1.43	0.45
6:s4:34:GLY:HA3	6:s4:83:PRO:CG	2.47	0.45
6:s4:46:VAL:O	6:s4:50:ASN:N	2.41	0.45
7:s5:93:LEU:HD23	7:s5:172:ILE:HG23	1.99	0.45
11:s9:133:HIS:O	11:s9:159:ALA:N	2.48	0.45
17:c5:10:ARG:HD3	48:m1:88:GLU:OE2	2.17	0.45
21:c9:16:ASN:HA	21:c9:56:LYS:NZ	2.31	0.45
29:d7:11:THR:O	29:d7:14:SER:N	2.50	0.45
33:e1:148:TYR:HD1	33:e1:148:TYR:HA	1.65	0.45
36:5:221:A:N6	62:n6:103:LYS:NZ	2.65	0.45
36:5:592:A:H5'	43:l6:17:ALA:O	2.16	0.45
36:5:671:U:OP2	54:m8:57:ILE:HD13	2.17	0.45
36:5:1500:G:H2'	36:5:1501:U:O4'	2.17	0.45
86:5:4093:OHX:N3	86:5:4202:OHX:N1	2.65	0.45
37:7:28:C:H2'	37:7:29:C:O4'	2.16	0.45
41:l4:119:ARG:HA	41:l4:122:THR:HG23	1.99	0.45
42:l5:278:SER:O	42:l5:281:GLU:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:98:LYS:HB3	44:l7:99:PRO:HD3	1.99	0.45
47:m0:90:ARG:NH2	47:m0:134:ILE:HD12	2.32	0.45
48:m1:37:LEU:HD13	48:m1:69:VAL:HG12	1.97	0.45
49:m3:153:ASP:OD2	49:m3:154:VAL:N	2.50	0.45
49:m3:161:ASP:OD2	64:n8:139:ARG:NH1	2.50	0.45
50:m4:73:PRO:HG2	50:m4:76:ALA:HB2	1.98	0.45
50:m4:85:TRP:CD1	50:m4:85:TRP:C	2.95	0.45
50:m4:120:VAL:O	50:m4:124:ARG:HB2	2.16	0.45
59:n3:46:LEU:O	59:n3:47:ASN:HB2	2.17	0.45
74:o8:18:ALA:C	74:o8:20:VAL:N	2.74	0.45
74:o8:62:ALA:C	74:o8:64:LYS:N	2.75	0.45
1:2:393:C:H2'	1:2:394:C:C6	2.52	0.45
1:2:552:G:C6	1:2:553:G:C6	3.05	0.45
1:2:1114:G:O6	86:2:2075:OHX:N5	2.49	0.45
1:2:1201:G:N2	1:2:1599:C:H2'	2.32	0.45
1:2:1442:U:H2'	1:2:1443:U:C6	2.52	0.45
1:2:1597:A:C8	31:D9:14:TYR:CD2	3.05	0.45
1:2:1735:U:O4	86:2:2136:OHX:N2	2.50	0.45
1:2:1774:G:OP1	77:Q1:7:LYS:NZ	2.45	0.45
2:S0:167:LYS:HE3	2:S0:168:HIS:CD2	2.52	0.45
7:S5:214:LYS:O	7:S5:217:LEU:HB2	2.16	0.45
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.31	0.45
15:C3:22:ALA:HB1	15:C3:23:PRO:O	2.17	0.45
36:1:284:A:OP2	78:Q2:41:ARG:NH1	2.43	0.45
36:1:726:G:C5'	36:1:726:G:C8	3.00	0.45
40:L3:10:ARG:CZ	40:L3:14:LEU:HD21	2.47	0.45
40:L3:76:VAL:HA	40:L3:326:GLY:H	1.82	0.45
40:L3:173:GLN:HG3	40:L3:175:LYS:H	1.82	0.45
46:L9:31:ARG:HG2	46:L9:149:ASN:HD21	1.82	0.45
46:L9:92:TYR:CD1	46:L9:179:ILE:HG12	2.52	0.45
47:M0:144:ASN:O	47:M0:147:VAL:N	2.50	0.45
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.17	0.45
50:M4:116:GLU:O	50:M4:120:VAL:HG23	2.17	0.45
55:M9:180:LYS:HA	55:M9:183:ALA:HB3	1.98	0.45
58:N2:79:LEU:HD23	58:N2:79:LEU:HA	1.83	0.45
72:O6:66:GLU:OE1	72:O6:70:ARG:NH2	2.50	0.45
79:Q3:3:LYS:HZ2	79:Q3:6:LYS:HA	1.81	0.45
1:6:250:C:H6	1:6:250:C:H5'	1.82	0.45
1:6:329:G:O3'	10:s8:97:THR:HB	2.17	0.45
1:6:805:U:C2'	1:6:806:A:H5'	2.46	0.45
1:6:817:A:H2'	1:6:818:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:841:U:H2'	1:6:842:C:C6	2.52	0.45
1:6:906:A:H2'	1:6:907:A:C8	2.51	0.45
1:6:1460:A:O2'	35:sM:72:ARG:NH1	2.50	0.45
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.17	0.45
11:s9:129:ILE:HA	11:s9:134:ILE:CD1	2.45	0.45
17:c5:22:LEU:CA	17:c5:25:LEU:HD12	2.47	0.45
17:c5:130:ARG:HH12	35:sM:71:ASN:HA	1.81	0.45
20:c8:3:LEU:HD23	20:c8:5:VAL:HG23	1.97	0.45
20:c8:28:ILE:O	20:c8:29:VAL:C	2.60	0.45
20:c8:91:ASP:OD1	20:c8:92:ILE:HG22	2.16	0.45
22:d0:36:ASN:HA	22:d0:39:SER:HB3	1.99	0.45
26:d4:58:PHE:CE2	26:d4:72:PHE:HB3	2.52	0.45
34:sR:220:ILE:HB	34:sR:234:LEU:HB2	1.98	0.45
35:sM:34:LYS:HA	35:sM:34:LYS:HD3	1.62	0.45
36:5:419:G:O3'	36:5:420:G:OP2	2.33	0.45
36:5:916:G:N7	36:5:924:G:C5	2.85	0.45
36:5:1135:A:OP1	65:n9:5:LYS:HE3	2.17	0.45
36:5:1560:G:C6	36:5:1580:A:N6	2.85	0.45
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.49	0.45
36:5:2572:C:HO2'	36:5:2573:G:P	2.38	0.45
36:5:2943:G:N7	36:5:2944:U:C5	2.85	0.45
36:5:3224:G:C2	36:5:3225:C:C6	3.05	0.45
39:l2:248:GLY:O	39:l2:249:SER:HB2	2.17	0.45
42:l5:224:LYS:HB2	42:l5:224:LYS:HE3	1.71	0.45
43:l6:65:ILE:HD12	43:l6:65:ILE:HA	1.75	0.45
43:l6:109:GLU:H	43:l6:109:GLU:CD	2.21	0.45
43:l6:155:LEU:O	43:l6:158:TYR:HB3	2.17	0.45
44:l7:96:PRO:HA	44:l7:97:PRO:HD3	1.87	0.45
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.17	0.45
45:l8:134:TYR:CD1	45:l8:190:VAL:HG11	2.51	0.45
49:m3:92:THR:HG21	71:o5:111:PHE:HB3	1.98	0.45
52:m6:183:ALA:O	52:m6:186:ALA:HB3	2.17	0.45
64:n8:22:ILE:H	64:n8:22:ILE:HD12	1.82	0.45
1:2:143:G:N7	8:S6:177:ARG:NH2	2.65	0.45
1:2:400:A:O5'	10:S8:25:ARG:HD3	2.17	0.45
1:2:512:A:OP2	11:S9:172:VAL:HG13	2.17	0.45
1:2:778:G:H22	26:D4:10:ARG:NH1	2.15	0.45
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.17	0.45
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.99	0.45
5:S3:127:MET:HG2	5:S3:154:ASP:OD2	2.17	0.45
17:C5:130:ARG:HD3	35:SM:74:LYS:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:11:GLY:HA3	18:C6:83:GLN:HB3	1.99	0.45
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.52	0.45
32:E0:46:ASN:OD1	32:E0:47:VAL:N	2.49	0.45
34:SR:58:VAL:HG23	34:SR:59:ARG:HB2	1.99	0.45
36:1:109:A:H4'	36:1:110:G:OP1	2.17	0.45
36:1:330:G:OP2	86:1:4041:OHX:N2	2.49	0.45
36:1:534:U:H1'	56:N0:146:LYS:HG3	1.97	0.45
36:1:2533:G:C2	36:1:2547:A:C2	3.05	0.45
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.32	0.45
36:1:2902:A:P	46:L9:170:LYS:HE3	2.57	0.45
37:3:64:A:O5'	47:M0:206:LEU:HB2	2.16	0.45
40:L3:283:TYR:HB2	40:L3:323:MET:HE2	1.99	0.45
44:L7:123:THR:O	44:L7:126:LEU:HB2	2.17	0.45
63:N7:24:VAL:HG23	63:N7:44:ALA:HB3	1.99	0.45
70:O4:11:ASN:HA	70:O4:12:PRO:HD3	1.56	0.45
70:O4:22:VAL:CG1	70:O4:30:LEU:HD22	2.46	0.45
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	1.99	0.45
1:6:348:U:O4	86:6:2162:OHX:N4	2.49	0.45
1:6:517:U:H2'	1:6:518:A:O4'	2.17	0.45
1:6:969:C:H4'	1:6:1104:U:O2'	2.16	0.45
1:6:1280:C:H5'	31:d9:44:ARG:NH2	2.32	0.45
1:6:1523:G:N3	1:6:1523:G:H5'	2.32	0.45
4:s2:157:LYS:HG2	4:s2:170:ILE:HG23	1.98	0.45
7:s5:109:LYS:O	7:s5:113:ILE:HG13	2.17	0.45
7:s5:157:ARG:HE	7:s5:157:ARG:N	2.15	0.45
8:s6:20:ASP:OD2	8:s6:22:HIS:HB2	2.16	0.45
15:c3:55:ARG:HD3	29:d7:47:PHE:CG	2.52	0.45
22:d0:43:LYS:O	22:d0:47:GLN:HB2	2.17	0.45
24:d2:95:PRO:HD3	24:d2:130:TYR:CD1	2.52	0.45
26:d4:60:PHE:CD1	26:d4:71:GLY:HA3	2.52	0.45
34:sR:63:GLY:HA3	34:sR:90:ARG:NH1	2.31	0.45
36:5:578:A:H5''	36:5:579:G:O5'	2.17	0.45
36:5:733:G:H2'	36:5:735:A:OP2	2.17	0.45
36:5:1301:A:H4'	36:5:1302:A:O5'	2.17	0.45
36:5:1841:A:O2'	36:5:1842:A:H5''	2.17	0.45
36:5:2693:C:H42	36:5:2700:G:H1	1.63	0.45
36:5:2799:A:N3	64:n8:42:ARG:NH2	2.65	0.45
36:5:2819:A:C2'	36:5:2820:A:H5'	2.47	0.45
36:5:3000:A:H2'	36:5:3001:C:C6	2.52	0.45
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.31	0.45
40:l3:53:MET:HE2	40:l3:77:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:145:ARG:HA	44:l7:185:ILE:HD13	1.99	0.45
45:l8:139:VAL:HG12	45:l8:143:ILE:HD11	1.99	0.45
46:l9:86:TYR:CZ	46:l9:151:VAL:HG22	2.52	0.45
61:n5:79:GLY:C	61:n5:81:ILE:HD12	2.41	0.45
64:n8:95:SER:HB2	64:n8:97:GLU:OE2	2.17	0.45
69:o3:89:LEU:HA	69:o3:90:PRO:HD3	1.68	0.45
71:o5:85:THR:HG22	71:o5:88:LEU:N	2.28	0.45
82:p0:44:GLU:OE2	82:p0:103:ASN:HB3	2.17	0.45
1:2:18:C:C4	1:2:19:A:N7	2.85	0.44
1:2:73:U:O2'	1:2:74:U:C2	2.70	0.44
1:2:438:A:H1'	1:2:466:U:O2	2.17	0.44
1:2:452:A:H3'	1:2:453:U:C6	2.52	0.44
1:2:482:U:H2'	1:2:483:A:H8	1.82	0.44
1:2:524:U:H1'	1:2:527:A:N7	2.32	0.44
1:2:639:U:P	9:S7:117:THR:HG1	2.39	0.44
1:2:858:G:OP1	9:S7:116:ARG:NH2	2.50	0.44
1:2:1794:A:H1'	28:D6:79:ILE:HD13	1.99	0.44
1:2:1796:C:H4'	1:2:1797:A:OP2	2.17	0.44
3:S1:70:LEU:HD12	3:S1:82:ARG:HB2	1.99	0.44
4:S2:230:TRP:CD2	24:D2:68:ARG:HD3	2.52	0.44
7:S5:126:ASP:HB3	7:S5:127:GLN:H	1.47	0.44
8:S6:78:THR:HG22	8:S6:79:LYS:H	1.82	0.44
11:S9:33:GLU:O	11:S9:122:VAL:HG11	2.17	0.44
13:C1:98:ASN:ND2	24:D2:79:PHE:CD1	2.82	0.44
15:C3:93:LYS:HG3	15:C3:150:VAL:HG11	1.98	0.44
35:SM:70:ASN:O	35:SM:74:LYS:HD3	2.17	0.44
36:1:1478:C:H2'	36:1:1479:U:H6	1.82	0.44
36:1:1509:A:O2'	36:1:1510:G:H5'	2.17	0.44
36:1:1932:A:H5'	36:1:1933:A:OP2	2.17	0.44
36:1:2333:C:H2'	36:1:2334:U:O4'	2.16	0.44
37:3:110:G:OP2	42:L5:279:LYS:HG3	2.17	0.44
40:L3:95:THR:C	40:L3:97:ARG:H	2.25	0.44
45:L8:78:PHE:C	45:L8:80:TYR:N	2.75	0.44
49:M3:46:ILE:HA	49:M3:46:ILE:HD13	1.66	0.44
52:M6:148:LYS:HB2	52:M6:149:TYR:CE2	2.52	0.44
52:M6:166:GLU:O	52:M6:167:TYR:C	2.60	0.44
67:O1:16:LEU:HA	67:O1:16:LEU:HD12	1.72	0.44
76:Q0:110:CYS:SG	76:Q0:112:LYS:HB2	2.57	0.44
76:Q0:127:LEU:HD23	76:Q0:127:LEU:HA	1.81	0.44
78:Q2:9:LYS:HE2	78:Q2:22:GLN:NE2	2.33	0.44
79:Q3:56:THR:HG22	79:Q3:63:THR:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:190:C:O2'	1:6:191:C:H5'	2.17	0.44
1:6:393:C:H2'	1:6:394:C:C6	2.51	0.44
1:6:1206:U:OP2	1:6:1207:C:O2'	2.34	0.44
1:6:1207:C:H42	1:6:1456:C:H5	1.64	0.44
1:6:1727:G:H2'	1:6:1728:A:C8	2.52	0.44
7:s5:99:MET:HA	7:s5:104:ASN:ND2	2.32	0.44
8:s6:14:LYS:HB3	8:s6:124:LEU:HD13	1.99	0.44
15:c3:88:LEU:HD23	15:c3:88:LEU:HA	1.69	0.44
17:c5:60:LEU:HD23	17:c5:60:LEU:HA	1.74	0.44
17:c5:129:GLY:HA3	35:sM:74:LYS:HD2	1.98	0.44
19:c7:24:LEU:CB	19:c7:58:MET:HE3	2.47	0.44
22:d0:32:LYS:HD2	22:d0:32:LYS:H	1.81	0.44
27:d5:50:ILE:HG12	27:d5:69:LEU:HD21	1.98	0.44
29:d7:6:ASP:CG	29:d7:9:HIS:HD1	2.25	0.44
36:5:155:G:H5''	36:5:156:G:C8	2.52	0.44
36:5:622:A:H2'	36:5:623:U:O4'	2.17	0.44
36:5:1155:C:O2'	36:5:1197:A:N1	2.38	0.44
36:5:1560:G:HO2'	36:5:1561:G:P	2.38	0.44
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.52	0.44
36:5:3295:A:H2'	36:5:3296:A:C8	2.52	0.44
45:l8:68:ARG:H	45:l8:68:ARG:HG2	1.62	0.44
45:l8:90:THR:HG22	45:l8:214:LEU:HD23	1.99	0.44
47:m0:51:HIS:O	47:m0:165:ILE:HA	2.16	0.44
48:m1:7:ASN:N	48:m1:8:PRO:HD3	2.31	0.44
48:m1:90:GLN:OE1	48:m1:172:LEU:HD21	2.17	0.44
49:m3:59:ARG:O	49:m3:59:ARG:HG3	2.14	0.44
49:m3:64:LYS:HD3	49:m3:65:TYR:CE1	2.52	0.44
50:m4:65:LEU:HG	56:n0:172:TYR:OH	2.17	0.44
55:m9:40:ALA:O	55:m9:44:LEU:HG	2.17	0.44
64:n8:82:ILE:HG22	64:n8:87:ARG:HG3	1.98	0.44
79:q3:11:THR:CG2	79:q3:27:LYS:HB2	2.47	0.44
82:p0:49:ALA:HB2	82:p0:96:ILE:HD12	2.00	0.44
1:2:215:A:OP2	1:2:215:A:H8	2.00	0.44
1:2:1565:C:H2'	1:2:1566:U:O4'	2.16	0.44
2:S0:179:ARG:O	2:S0:183:ARG:HG3	2.16	0.44
5:S3:84:ILE:HD13	5:S3:85:VAL:H	1.82	0.44
7:S5:216:GLU:CD	7:S5:219:ARG:HH21	2.24	0.44
16:C4:26:THR:HG21	16:C4:97:GLY:CA	2.47	0.44
17:C5:37:ALA:HB1	17:C5:38:PRO:HD2	1.99	0.44
21:C9:25:GLN:HG2	21:C9:27:LYS:H	1.82	0.44
29:D7:49:HIS:CE1	29:D7:70:LYS:HG2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:544:C:H1'	36:1:548:G:H22	1.82	0.44
36:1:661:G:OP2	64:N8:12:ARG:NH2	2.50	0.44
36:1:718:G:C2	36:1:721:G:H1'	2.52	0.44
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.50	0.44
36:1:2571:U:OP1	36:1:2571:U:H2'	2.17	0.44
36:1:2948:C:H2'	36:1:2949:U:C6	2.53	0.44
41:L4:49:ALA:HB2	49:M3:26:PHE:CZ	2.53	0.44
45:L8:137:ASN:ND2	51:M5:4:TYR:CE1	2.83	0.44
46:L9:20:ILE:HG23	46:L9:25:VAL:HA	2.00	0.44
53:M7:41:LEU:HD23	53:M7:95:LEU:HD22	1.99	0.44
55:M9:175:GLN:O	55:M9:179:GLU:N	2.44	0.44
57:N1:79:MET:HB3	57:N1:84:TYR:CE2	2.52	0.44
61:N5:127:THR:C	61:N5:129:ASP:H	2.25	0.44
61:N5:136:ALA:HB1	61:N5:141:TYR:CE1	2.52	0.44
70:O4:20:ILE:HA	70:O4:20:ILE:HD12	1.71	0.44
1:6:460:A:H3'	1:6:461:G:H8	1.81	0.44
1:6:904:G:H2'	1:6:905:A:O4'	2.17	0.44
1:6:914:G:H8	1:6:914:G:OP2	2.00	0.44
2:s0:21:ASN:ND2	2:s0:24:LEU:HD22	2.32	0.44
5:s3:11:LEU:HD12	22:d0:86:ILE:HG12	1.99	0.44
6:s4:200:ARG:HG2	6:s4:201:HIS:N	2.32	0.44
8:s6:27:PHE:O	8:s6:30:LYS:HG3	2.18	0.44
8:s6:156:PHE:CD2	60:n4:93:ARG:HD2	2.52	0.44
14:c2:58:LEU:HA	14:c2:85:LYS:HZ1	1.81	0.44
16:c4:33:LEU:HD12	16:c4:33:LEU:HA	1.64	0.44
16:c4:115:ILE:HG21	28:d6:44:ILE:HG21	1.98	0.44
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.98	0.44
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.74	0.44
22:d0:27:THR:HB	22:d0:88:LYS:HG2	1.99	0.44
24:d2:31:SER:HB3	24:d2:34:ILE:HG13	1.99	0.44
24:d2:105:THR:HG23	24:d2:110:ILE:CG1	2.47	0.44
27:d5:52:LYS:HB3	27:d5:52:LYS:HE2	1.76	0.44
34:sR:96:THR:HG23	34:sR:98:GLU:H	1.81	0.44
36:5:78:U:O2'	36:5:79:U:H5'	2.16	0.44
36:5:92:G:OP2	36:5:93:C:H5''	2.17	0.44
36:5:119:U:H4'	36:5:120:G:H3'	1.98	0.44
36:5:324:A:H2'	36:5:325:A:C8	2.52	0.44
36:5:541:U:O4	86:5:4013:OHX:N3	2.51	0.44
36:5:920:A:OP1	36:5:922:U:H5	1.99	0.44
36:5:1366:A:C2	36:5:1367:G:C4	3.06	0.44
36:5:1556:C:H2'	36:5:2169:G:N1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1621:A:H2'	36:5:1622:U:H6	1.82	0.44
36:5:3010:U:OP2	86:5:4246:OHX:N4	2.50	0.44
36:5:3047:U:O2'	40:13:53:MET:HE1	2.17	0.44
38:8:142:C:OP1	51:m5:38:ARG:NH1	2.46	0.44
40:13:205:VAL:C	40:13:207:SER:H	2.24	0.44
41:14:151:VAL:HG12	41:14:152:VAL:H	1.81	0.44
41:14:258:LEU:HD12	41:14:258:LEU:HA	1.65	0.44
42:15:51:LEU:HB2	42:15:144:VAL:CG1	2.48	0.44
42:15:70:THR:O	42:15:70:THR:OG1	2.34	0.44
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.52	0.44
47:m0:50:VAL:HG13	47:m0:167:LEU:HA	1.99	0.44
47:m0:86:HIS:ND1	47:m0:139:ARG:NH1	2.64	0.44
55:m9:4:LEU:HD21	55:m9:33:ALA:HA	1.98	0.44
57:n1:17:ARG:HH11	57:n1:17:ARG:CG	2.31	0.44
59:n3:54:LEU:HA	59:n3:78:VAL:HG12	1.99	0.44
64:n8:82:ILE:HD13	64:n8:102:ILE:HG12	2.00	0.44
67:o1:40:ALA:HA	67:o1:75:ILE:HD13	2.00	0.44
78:q2:24:LYS:HB2	78:q2:24:LYS:HE3	1.70	0.44
82:p0:43:LYS:HB2	82:p0:43:LYS:HE3	1.80	0.44
1:2:753:A:OP1	6:S4:220:THR:HG22	2.18	0.44
1:2:856:A:H62	9:S7:97:ARG:H	1.65	0.44
1:2:960:U:H2'	1:2:961:U:H6	1.82	0.44
1:2:1147:A:H2'	1:2:1148:C:C6	2.52	0.44
1:2:1199:G:H1	31:D9:31:ILE:CD1	2.30	0.44
1:2:1623:C:H2'	1:2:1624:C:C6	2.51	0.44
2:S0:126:PRO:HG2	2:S0:151:SER:HB3	1.99	0.44
4:S2:35:TRP:CD1	4:S2:35:TRP:C	2.95	0.44
5:S3:34:TYR:OH	5:S3:37:VAL:HG22	2.18	0.44
10:S8:34:ALA:HB2	10:S8:56:ARG:HG3	1.98	0.44
14:C2:132:GLU:HA	14:C2:135:MET:HB2	1.98	0.44
36:1:1814:A:H4'	36:1:1815:U:O4'	2.16	0.44
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.99	0.44
37:3:19:C:H2'	37:3:20:A:C8	2.53	0.44
37:3:43:U:H4'	48:M1:140:ARG:O	2.17	0.44
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.17	0.44
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.50	0.44
42:L5:95:TRP:CZ2	42:L5:161:GLY:HA2	2.52	0.44
42:L5:114:GLY:C	42:L5:116:ASP:H	2.24	0.44
45:L8:61:GLN:HA	45:L8:64:ILE:HD12	1.99	0.44
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	1.99	0.44
47:M0:74:LYS:HE3	47:M0:74:LYS:HB2	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:32:ARG:O	48:M1:36:VAL:HG23	2.17	0.44
49:M3:168:ARG:HA	49:M3:171:ARG:HB2	1.99	0.44
53:M7:24:VAL:HG13	53:M7:86:LYS:HG2	1.99	0.44
55:M9:68:GLN:O	55:M9:72:GLU:HG3	2.17	0.44
67:O1:23:VAL:O	67:O1:28:ARG:NH1	2.50	0.44
67:O1:36:ILE:O	67:O1:39:PHE:N	2.50	0.44
71:O5:21:LEU:HD22	71:O5:25:LYS:HD2	2.00	0.44
1:6:15:U:H2'	1:6:16:G:O4'	2.17	0.44
1:6:1557:U:O2'	1:6:1558:U:H2'	2.17	0.44
1:6:1653:C:O3'	77:q1:21:ARG:HD2	2.17	0.44
1:6:1700:C:O2	1:6:1700:C:H2'	2.16	0.44
1:6:1799:U:H5''	3:s1:117:TRP:HE1	1.83	0.44
3:s1:35:PRO:CB	3:s1:231:LEU:HD11	2.45	0.44
4:s2:203:LYS:HG2	4:s2:206:THR:HG22	2.00	0.44
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.81	0.44
5:s3:134:CYS:SG	5:s3:135:GLU:N	2.90	0.44
8:s6:39:GLU:HB2	8:s6:46:LYS:HG3	1.99	0.44
10:s8:67:TRP:HA	10:s8:183:ILE:HG23	1.99	0.44
16:c4:107:ARG:HB2	16:c4:107:ARG:HH21	1.82	0.44
22:d0:82:TYR:OH	31:d9:44:ARG:HD2	2.17	0.44
25:d3:37:ALA:O	25:d3:41:SER:HB3	2.16	0.44
26:d4:52:LYS:O	26:d4:55:VAL:HG22	2.17	0.44
28:d6:20:PRO:HA	28:d6:31:PRO:HA	1.99	0.44
36:5:39:A:H5''	64:n8:35:ALA:HB2	1.98	0.44
36:5:213:A:H5''	62:n6:2:ALA:N	2.31	0.44
36:5:238:A:H2'	36:5:239:G:O4'	2.16	0.44
36:5:1259:A:C8	82:p0:53:MET:HB2	2.53	0.44
36:5:1489:A:OP1	70:o4:10:ARG:HD2	2.18	0.44
36:5:2442:G:N1	36:5:2443:A:N7	2.65	0.44
36:5:2922:G:H5''	36:5:2923:U:OP2	2.17	0.44
86:5:4011:OHX:N4	86:5:4201:OHX:N2	2.65	0.44
86:5:4090:OHX:N2	86:q1:102:OHX:N6	2.65	0.44
40:l3:291:GLU:CB	40:l3:302:LYS:HE2	2.47	0.44
43:l6:89:THR:HG21	50:m4:115:PHE:HB2	1.99	0.44
47:m0:130:ASP:OD1	47:m0:131:ILE:N	2.48	0.44
52:m6:108:ILE:HA	52:m6:109:PRO:HD2	1.63	0.44
56:n0:155:ARG:HB2	56:n0:172:TYR:HB2	1.99	0.44
63:n7:80:LEU:HD23	63:n7:80:LEU:HA	1.74	0.44
70:o4:22:VAL:HG11	70:o4:30:LEU:HD13	2.00	0.44
1:2:127:G:C8	8:S6:198:ALA:HB1	2.53	0.44
1:2:553:G:H8	1:2:553:G:O5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1325:A:H2'	1:2:1326:A:C8	2.52	0.44
1:2:1482:C:H4'	18:C6:77:GLN:HE22	1.82	0.44
1:2:1522:U:OP1	86:2:2060:OHX:N3	2.51	0.44
1:2:1524:A:C6	1:2:1525:A:C6	3.06	0.44
7:S5:194:LEU:HD22	7:S5:194:LEU:HA	1.83	0.44
8:S6:6:SER:OG	8:S6:112:VAL:HG22	2.16	0.44
8:S6:14:LYS:HZ3	8:S6:123:GLY:H	1.64	0.44
9:S7:12:ALA:H	9:S7:13:PRO:HD2	1.83	0.44
13:C1:112:SER:C	13:C1:114:ALA:H	2.25	0.44
26:D4:84:LYS:HD2	26:D4:85:PHE:CZ	2.53	0.44
26:D4:132:ARG:C	26:D4:134:ALA:H	2.26	0.44
28:D6:10:ARG:NH1	28:D6:36:ILE:HA	2.32	0.44
33:E1:144:CYS:C	33:E1:146:SER:N	2.74	0.44
36:1:281:G:C6	36:1:282:G:C6	3.06	0.44
36:1:1225:A:H1'	36:1:3116:G:N2	2.31	0.44
37:3:97:A:O4'	44:L7:225:GLN:NE2	2.50	0.44
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.52	0.44
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.17	0.44
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.50	0.44
44:L7:159:GLN:O	44:L7:160:ARG:HB3	2.18	0.44
45:L8:169:LEU:HD22	45:L8:173:MET:HG2	1.99	0.44
51:M5:150:TRP:CZ3	51:M5:151:ILE:HG12	2.53	0.44
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.50	0.44
71:O5:9:LEU:HD22	71:O5:17:LEU:HD23	1.99	0.44
73:O7:69:HIS:HB3	73:O7:72:ARG:NH2	2.33	0.44
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.17	0.44
1:6:189:C:C2'	1:6:190:C:H5'	2.48	0.44
1:6:563:U:H4'	80:e0:17:GLN:OE1	2.18	0.44
1:6:1082:C:H3'	1:6:1082:C:OP2	2.16	0.44
5:s3:162:GLN:C	5:s3:164:VAL:H	2.25	0.44
5:s3:194:LYS:O	5:s3:196:ARG:N	2.42	0.44
6:s4:248:ILE:HG12	11:s9:71:PHE:CE2	2.52	0.44
8:s6:156:PHE:CE2	60:n4:93:ARG:HD2	2.52	0.44
9:s7:56:LYS:HD3	9:s7:88:ARG:HH12	1.82	0.44
14:c2:50:LYS:O	14:c2:54:ARG:HG2	2.18	0.44
17:c5:7:ALA:C	17:c5:9:LYS:H	2.25	0.44
21:c9:10:ALA:O	21:c9:13:ASP:HB2	2.18	0.44
34:sR:102:ARG:O	34:sR:104:VAL:HG23	2.17	0.44
34:sR:314:GLN:HE21	34:sR:314:GLN:HB2	1.62	0.44
36:5:370:U:H5''	36:5:371:G:OP2	2.17	0.44
36:5:618:C:H2'	36:5:619:A:N7	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:741:U:H2'	36:5:742:G:O4'	2.17	0.44
36:5:749:C:H5''	65:n9:32:LEU:HD12	2.00	0.44
36:5:1214:U:H2'	36:5:1215:U:C6	2.52	0.44
36:5:1721:U:O4	55:m9:128:LYS:HE3	2.17	0.44
41:l4:192:GLY:HA2	41:l4:195:ARG:CG	2.45	0.44
41:l4:330:TYR:HB2	44:l7:45:LEU:HD23	1.99	0.44
42:l5:152:ARG:HH11	42:l5:152:ARG:HB2	1.81	0.44
47:m0:129:VAL:HG22	47:m0:133:GLN:HG2	1.98	0.44
49:m3:8:PRO:HA	54:m8:164:ARG:O	2.18	0.44
53:m7:48:LEU:HA	53:m7:48:LEU:HD23	1.77	0.44
54:m8:122:ILE:HD11	54:m8:130:ARG:NH1	2.31	0.44
59:n3:15:LEU:HA	59:n3:53:SER:HB3	2.00	0.44
59:n3:93:LEU:HA	60:n4:20:LEU:O	2.18	0.44
60:n4:128:ALA:O	60:n4:132:GLY:HA3	2.17	0.44
61:n5:87:SER:OG	61:n5:89:LYS:N	2.49	0.44
66:o0:55:GLU:HA	70:o4:94:LEU:HD11	1.99	0.44
79:q3:74:ALA:O	79:q3:77:ALA:HB3	2.18	0.44
1:2:380:U:H5	11:S9:5:PRO:CB	2.30	0.44
1:2:1325:A:C2	1:2:1326:A:C5	3.06	0.44
1:2:1535:U:OP1	1:2:1535:U:H4'	2.18	0.44
1:2:1657:U:C4	86:2:2090:OHX:N2	2.85	0.44
4:S2:53:ILE:O	4:S2:56:ILE:N	2.51	0.44
8:S6:48:TYR:CD1	8:S6:113:ILE:HD11	2.53	0.44
8:S6:87:ARG:N	8:S6:91:GLU:OE1	2.44	0.44
9:S7:141:ARG:HD2	9:S7:151:LYS:CE	2.48	0.44
10:S8:105:ASP:O	10:S8:107:THR:HG23	2.17	0.44
11:S9:6:ARG:HD3	11:S9:6:ARG:HA	1.61	0.44
17:C5:57:MET:HE1	17:C5:89:MET:HG2	1.99	0.44
21:C9:111:ILE:HG23	21:C9:113:ILE:HG12	1.98	0.44
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.53	0.44
29:D7:31:TYR:CD2	29:D7:48:SER:HB3	2.53	0.44
36:1:599:C:H2'	36:1:600:G:O4'	2.17	0.44
36:1:1213:G:OP1	56:N0:137:ARG:HD3	2.17	0.44
36:1:1701:C:H2'	36:1:1702:U:O4'	2.17	0.44
36:1:1720:U:C4	55:M9:124:TYR:CE2	3.05	0.44
36:1:1787:A:N6	36:1:1788:C:C4	2.86	0.44
39:L2:142:ASP:OD2	39:L2:142:ASP:N	2.49	0.44
40:L3:75:ALA:O	40:L3:326:GLY:N	2.50	0.44
41:L4:138:ARG:HD2	41:L4:243:HIS:O	2.17	0.44
41:L4:158:SER:HA	41:L4:213:ASN:HB2	2.00	0.44
44:L7:25:GLN:HE21	44:L7:29:GLU:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:21:LYS:HG3	46:L9:22:SER:N	2.32	0.44
63:N7:100:THR:O	63:N7:106:GLN:HB3	2.17	0.44
1:6:5:U:H2'	1:6:6:G:H8	1.83	0.44
1:6:46:A:N6	1:6:433:C:H4'	2.33	0.44
1:6:306:U:P	13:c1:105:LYS:HD2	2.57	0.44
1:6:1101:G:O2'	24:d2:5:SER:HB2	2.17	0.44
1:6:1535:U:HO2'	1:6:1536:G:P	2.40	0.44
4:s2:116:LYS:HB2	4:s2:131:ILE:HD12	1.99	0.44
4:s2:175:GLY:O	11:s9:53:ARG:NH1	2.51	0.44
8:s6:63:MET:HE2	8:s6:106:LEU:HD22	1.98	0.44
9:s7:118:LEU:O	9:s7:118:LEU:HD12	2.17	0.44
9:s7:129:LEU:HD23	9:s7:129:LEU:HA	1.80	0.44
14:c2:67:THR:O	14:c2:68:GLU:HB2	2.18	0.44
17:c5:33:PHE:CZ	17:c5:112:LEU:HD22	2.51	0.44
18:c6:112:TYR:O	18:c6:114:ARG:HG2	2.18	0.44
21:c9:112:GLY:O	21:c9:125:SER:OG	2.34	0.44
33:e1:103:LEU:HD23	33:e1:105:TYR:CD2	2.52	0.44
36:5:269:G:OP1	51:m5:44:ARG:NH2	2.49	0.44
36:5:287:G:H5'	51:m5:179:LYS:O	2.17	0.44
36:5:409:A:H2'	36:5:410:U:O4'	2.17	0.44
36:5:823:C:H5'	39:l2:19:HIS:CE1	2.52	0.44
36:5:1081:U:H3'	36:5:1081:U:H6	1.82	0.44
36:5:1591:G:H2'	36:5:1592:G:H5'	1.98	0.44
36:5:1641:U:O2'	36:5:1642:A:H3'	2.18	0.44
36:5:1764:U:H3'	36:5:1765:U:C5'	2.47	0.44
36:5:1912:U:N3	36:5:2122:G:OP2	2.49	0.44
36:5:2322:C:OP1	86:5:4160:OHX:N6	2.51	0.44
36:5:2572:C:O2'	36:5:2573:G:P	2.76	0.44
36:5:3244:A:C2	40:l3:97:ARG:NH1	2.86	0.44
39:l2:187:HIS:ND1	39:l2:190:ARG:NH1	2.65	0.44
41:l4:274:TYR:CD1	41:l4:274:TYR:C	2.95	0.44
42:l5:120:LYS:H	42:l5:120:LYS:HG3	1.54	0.44
44:l7:147:LEU:HD22	44:l7:205:PHE:CD1	2.53	0.44
46:l9:151:VAL:O	46:l9:152:GLU:C	2.60	0.44
46:l9:166:ARG:O	46:l9:167:VAL:C	2.61	0.44
46:l9:170:LYS:HD3	46:l9:170:LYS:HA	1.74	0.44
51:m5:5:LYS:HA	51:m5:5:LYS:HD3	1.75	0.44
52:m6:182:ASN:CG	52:m6:183:ALA:N	2.76	0.44
62:n6:124:GLY:O	62:n6:125:LYS:C	2.59	0.44
67:o1:10:ARG:HH12	67:o1:44:MET:CG	2.29	0.44
67:o1:16:LEU:O	67:o1:20:LEU:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:p0:3:GLY:O	82:p0:6:GLU:HB3	2.18	0.44
82:p0:25:LEU:HD13	82:p0:88:PHE:CE2	2.53	0.44
1:2:81:G:C6	1:2:82:U:N3	2.86	0.44
1:2:432:G:H2'	1:2:433:C:O4'	2.17	0.44
1:2:477:A:N7	1:2:538:A:N1	2.65	0.44
1:2:648:G:O6	1:2:686:C:N4	2.26	0.44
1:2:732:G:N3	1:2:732:G:H2'	2.33	0.44
1:2:1316:G:O2'	1:2:1401:A:O2'	2.25	0.44
1:2:1382:A:H5''	22:D0:60:THR:HG23	1.98	0.44
3:S1:191:GLU:HB2	3:S1:194:ASN:HB2	2.00	0.44
6:S4:126:VAL:HG22	6:S4:156:VAL:HA	1.98	0.44
8:S6:148:SER:O	8:S6:150:GLU:N	2.44	0.44
16:C4:81:VAL:HG13	16:C4:115:ILE:HG21	2.00	0.44
19:C7:19:ARG:HG3	19:C7:20:TYR:CD1	2.52	0.44
22:D0:35:GLU:HA	22:D0:38:SER:HB3	2.00	0.44
25:D3:50:LYS:HB2	25:D3:103:LEU:HD23	2.00	0.44
30:D8:57:MET:HE2	30:D8:57:MET:HB3	1.83	0.44
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.45	0.44
36:1:160:G:O6	86:1:4194:OHX:N6	2.51	0.44
36:1:187:A:N3	36:1:208:C:O2'	2.47	0.44
36:1:543:C:H3'	36:1:544:C:C6	2.53	0.44
36:1:772:U:H2'	36:1:773:G:C8	2.53	0.44
36:1:1334:U:H2'	36:1:1335:C:C6	2.52	0.44
36:1:1349:G:H22	36:1:1355:A:N6	2.15	0.44
36:1:1678:G:C4	36:1:1679:A:C8	3.05	0.44
36:1:2339:C:OP2	59:N3:48:ARG:HG2	2.17	0.44
36:1:2442:G:H2'	36:1:2443:A:H5''	1.99	0.44
36:1:2445:A:N6	36:1:2503:G:H1	2.15	0.44
36:1:2948:C:H2'	36:1:2949:U:H6	1.82	0.44
36:1:3078:U:O2	36:1:3078:U:H2'	2.17	0.44
38:4:121:U:H2'	38:4:122:U:H6	1.83	0.44
40:L3:45:SER:OG	40:L3:181:ILE:HG23	2.18	0.44
42:L5:40:HIS:HB3	42:L5:43:LYS:HE2	1.99	0.44
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.99	0.44
44:L7:53:LYS:O	44:L7:54:GLU:C	2.60	0.44
45:L8:150:LEU:HD23	45:L8:150:LEU:HA	1.63	0.44
46:L9:36:LYS:HB3	46:L9:78:MET:SD	2.58	0.44
48:M1:59:ILE:CG2	48:M1:65:ILE:HD11	2.47	0.44
48:M1:60:ARG:NH1	78:Q2:104:LEU:O	2.46	0.44
50:M4:45:LEU:HD21	50:M4:55:ARG:NH1	2.32	0.44
51:M5:122:ASN:OD1	51:M5:123:GLN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.17	0.44
56:N0:30:PHE:CD2	56:N0:103:VAL:HG21	2.53	0.44
57:N1:131:GLN:HA	57:N1:132:PRO:HD3	1.83	0.44
73:O7:2:GLY:C	73:O7:4:GLY:H	2.24	0.44
1:6:486:G:OP1	1:6:486:G:H4'	2.18	0.44
1:6:648:G:C2	1:6:687:G:C2	3.04	0.44
1:6:1331:A:N6	5:s3:160:SER:OG	2.51	0.44
1:6:1590:G:OP2	86:6:2156:OHX:N6	2.51	0.44
4:s2:203:LYS:O	4:s2:206:THR:HG23	2.18	0.44
10:s8:8:ARG:HH21	10:s8:22:ARG:HH11	1.64	0.44
12:c0:15:LEU:O	12:c0:15:LEU:HD22	2.17	0.44
16:c4:90:ARG:O	16:c4:92:LYS:N	2.50	0.44
24:d2:67:GLY:C	24:d2:69:LEU:H	2.24	0.44
28:d6:61:GLU:HG3	28:d6:62:TYR:O	2.18	0.44
36:5:73:C:O2'	49:m3:59:ARG:HG2	2.18	0.44
36:5:172:G:C6	36:5:247:C:N4	2.86	0.44
36:5:655:C:OP1	68:o2:27:ARG:HB3	2.17	0.44
36:5:1403:C:O3'	68:o2:65:PHE:HA	2.18	0.44
36:5:1874:A:OP2	55:m9:20:ARG:HD2	2.17	0.44
36:5:2250:G:O6	86:5:3948:OHX:N6	2.50	0.44
36:5:2257:C:O5'	36:5:2257:C:H6	2.00	0.44
36:5:3147:G:H4'	40:l3:102:LEU:O	2.18	0.44
38:8:121:U:O2'	38:8:122:U:H5'	2.17	0.44
40:l3:81:THR:HG21	40:l3:322:ILE:HD13	2.00	0.44
44:l7:73:GLY:O	57:n1:143:THR:HB	2.17	0.44
48:m1:21:ILE:HG22	48:m1:23:VAL:HG23	1.99	0.44
52:m6:10:ASP:OD2	52:m6:37:ARG:NH2	2.45	0.44
52:m6:61:ALA:HA	52:m6:70:PRO:HD2	1.98	0.44
61:n5:103:TYR:HE1	61:n5:139:ILE:HG12	1.83	0.44
63:n7:73:LYS:HG2	63:n7:74:VAL:O	2.17	0.44
67:o1:44:MET:HB3	67:o1:77:ARG:CZ	2.48	0.44
82:p0:93:LEU:HD12	82:p0:94:THR:H	1.83	0.44
1:2:158:U:O2'	1:2:159:U:H3'	2.17	0.44
1:2:162:A:C2	1:2:163:G:C5	3.05	0.44
1:2:346:G:O6	86:2:2126:OHX:N5	2.50	0.44
1:2:760:A:H2'	1:2:761:G:O4'	2.18	0.44
1:2:1230:A:C8	1:2:1256:A:C6	3.06	0.44
1:2:1469:A:H2'	1:2:1470:C:C6	2.53	0.44
1:2:1478:G:N2	1:2:1530:C:C2	2.86	0.44
1:2:1680:G:H8	1:2:1680:G:OP2	2.01	0.44
6:S4:45:ILE:HD12	6:S4:61:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:196:ARG:HB2	8:S6:196:ARG:CZ	2.46	0.44
9:S7:161:GLN:H	9:S7:161:GLN:HG2	1.64	0.44
10:S8:8:ARG:NH2	10:S8:21:PHE:H	2.15	0.44
11:S9:41:GLU:CD	11:S9:126:ARG:HH22	2.24	0.44
12:C0:12:HIS:CD2	12:C0:79:TYR:HD2	2.35	0.44
13:C1:131:ILE:HD13	13:C1:131:ILE:HA	1.68	0.44
15:C3:5:HIS:CE1	15:C3:121:ARG:HG3	2.52	0.44
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	1.99	0.44
25:D3:126:LYS:HG2	25:D3:131:SER:HA	1.99	0.44
30:D8:65:ARG:HG3	30:D8:66:LEU:N	2.32	0.44
31:D9:30:LEU:HD21	31:D9:37:ASN:HA	2.00	0.44
36:1:517:G:P	44:L7:60:ARG:HH22	2.41	0.44
36:1:787:G:H2'	36:1:788:C:C6	2.52	0.44
36:1:999:G:O2'	36:1:1000:C:H5'	2.18	0.44
36:1:1752:A:OP2	86:1:4046:OHX:N3	2.51	0.44
36:1:2255:A:H5'	36:1:2261:G:H22	1.81	0.44
36:1:2656:A:C4	36:1:2658:G:N7	2.86	0.44
36:1:2697:A:H2'	36:1:2698:G:C8	2.52	0.44
86:1:4083:OHX:N2	86:1:4153:OHX:N4	2.66	0.44
38:4:104:A:H3'	38:4:105:A:C5'	2.48	0.44
41:L4:20:LEU:HD22	41:L4:256:THR:CG2	2.47	0.44
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.82	0.44
41:L4:316:ASN:ND2	44:L7:150:LYS:HD2	2.33	0.44
42:L5:119:TYR:CZ	42:L5:135:VAL:HG12	2.52	0.44
45:L8:215:VAL:O	45:L8:219:ASP:HB2	2.18	0.44
46:L9:103:ILE:HD11	46:L9:134:ILE:HG22	1.99	0.44
47:M0:43:VAL:HG21	47:M0:197:VAL:HB	1.99	0.44
47:M0:139:ARG:HB3	47:M0:173:PHE:CE1	2.52	0.44
49:M3:76:THR:HG22	49:M3:101:ARG:HB3	1.99	0.44
50:M4:20:VAL:O	50:M4:66:THR:HG23	2.18	0.44
52:M6:46:GLU:HG3	52:M6:48:PHE:H	1.81	0.44
54:M8:170:ARG:NH2	64:N8:58:MET:O	2.50	0.44
57:N1:128:LEU:H	57:N1:128:LEU:HD12	1.83	0.44
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.51	0.44
1:6:160:C:O3'	8:s6:95:LYS:NZ	2.45	0.44
1:6:228:G:H1	1:6:236:A:H61	1.66	0.44
1:6:558:U:OP1	1:6:558:U:H4'	2.17	0.44
1:6:1151:A:H4'	1:6:1766:A:C5	2.52	0.44
1:6:1441:C:C4	1:6:1442:U:C4	3.06	0.44
1:6:1447:C:C6	33:e1:82:LYS:HE2	2.53	0.44
9:s7:74:GLN:O	9:s7:77:LEU:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:73:GLY:O	11:s9:77:ILE:HG13	2.18	0.44
11:s9:170:GLY:O	11:s9:171:ARG:HD2	2.18	0.44
14:c2:56:GLU:OE1	14:c2:124:LYS:NZ	2.51	0.44
20:c8:142:GLY:O	20:c8:145:ARG:HD2	2.17	0.44
24:d2:38:LEU:HA	24:d2:41:MET:HE3	2.00	0.44
25:d3:109:ARG:HD2	25:d3:112:LYS:HZ2	1.83	0.44
34:sR:238:ASP:OD2	34:sR:258:THR:OG1	2.21	0.44
36:5:359:U:H3	36:5:815:G:HO2'	1.65	0.44
36:5:819:U:OP1	73:o7:10:LYS:NZ	2.45	0.44
36:5:1026:A:N3	36:5:1026:A:H2'	2.33	0.44
36:5:1821:U:C2	70:o4:67:LYS:HB2	2.53	0.44
86:5:4035:OHX:N3	86:5:4237:OHX:N1	2.66	0.44
40:l3:84:VAL:HG22	40:l3:162:VAL:HB	1.99	0.44
41:l4:236:LEU:HA	41:l4:236:LEU:HD23	1.79	0.44
42:l5:99:TYR:CG	42:l5:199:ILE:HG23	2.53	0.44
47:m0:177:ASP:O	47:m0:180:GLU:N	2.51	0.44
50:m4:84:LYS:O	50:m4:87:ALA:HB3	2.17	0.44
51:m5:136:ASP:OD2	51:m5:138:GLN:HG2	2.17	0.44
54:m8:71:LEU:HA	54:m8:71:LEU:HD23	1.75	0.44
55:m9:90:PRO:HG2	55:m9:93:VAL:CG2	2.47	0.44
57:n1:68:THR:HG22	57:n1:71:SER:O	2.18	0.44
61:n5:79:GLY:O	61:n5:81:ILE:HD12	2.18	0.44
62:n6:5:SER:C	62:n6:7:ASP:H	2.26	0.44
70:o4:81:CYS:O	70:o4:81:CYS:SG	2.76	0.44
74:o8:12:LEU:HD13	74:o8:12:LEU:HA	1.54	0.44
1:2:131:C:O2'	1:2:132:U:OP1	2.34	0.44
1:2:1561:U:OP1	86:2:2176:OHX:N3	2.51	0.44
6:S4:246:LEU:HD12	6:S4:246:LEU:N	2.33	0.44
7:S5:57:SER:C	7:S5:59:VAL:H	2.26	0.44
7:S5:59:VAL:O	7:S5:60:ASP:HB2	2.18	0.44
7:S5:95:ASN:O	7:S5:98:MET:HG2	2.18	0.44
7:S5:140:THR:HA	7:S5:214:LYS:HD2	1.99	0.44
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.18	0.44
12:C0:49:LEU:HB3	12:C0:55:VAL:HG11	1.99	0.44
12:C0:77:ARG:HA	12:C0:82:LEU:CD1	2.47	0.44
18:C6:23:LYS:CG	18:C6:64:ASP:HB2	2.48	0.44
28:D6:41:ILE:O	28:D6:41:ILE:HG12	2.18	0.44
31:D9:43:PHE:O	31:D9:47:ALA:N	2.50	0.44
36:1:213:A:H5''	62:N6:2:ALA:HA	1.99	0.44
36:1:718:G:O6	36:1:751:A:H1'	2.17	0.44
36:1:1175:C:O2	52:M6:87:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1546:A:N7	51:M5:71:ARG:NH1	2.65	0.44
36:1:2775:U:H2'	36:1:2776:C:C6	2.53	0.44
36:1:3024:A:H5''	36:1:3025:C:OP2	2.17	0.44
36:1:3056:U:H1'	36:1:3058:U:O5'	2.17	0.44
36:1:3228:C:H4'	36:1:3229:G:O5'	2.16	0.44
38:4:143:U:H2'	38:4:144:G:O4'	2.17	0.44
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.17	0.44
45:L8:246:MET:HB2	45:L8:246:MET:HE3	1.56	0.44
53:M7:127:ARG:HB3	53:M7:139:TYR:O	2.18	0.44
63:N7:58:GLY:O	63:N7:62:VAL:HG23	2.17	0.44
73:O7:69:HIS:ND1	73:O7:72:ARG:NH2	2.66	0.44
75:O9:10:LYS:HA	75:O9:13:MET:HE3	2.00	0.44
1:6:336:G:H2'	1:6:338:C:H5	1.83	0.44
1:6:654:C:H2'	1:6:655:G:C8	2.53	0.44
1:6:1715:G:N1	1:6:1716:C:N4	2.65	0.44
4:s2:86:VAL:C	4:s2:87:GLN:HG2	2.43	0.44
6:s4:195:ILE:HG22	6:s4:196:VAL:N	2.31	0.44
10:s8:6:ASP:OD1	10:s8:8:ARG:HG3	2.18	0.44
15:c3:96:VAL:O	15:c3:100:LYS:HG3	2.18	0.44
24:d2:90:THR:HG21	24:d2:113:HIS:CE1	2.52	0.44
36:5:378:A:OP2	86:5:4203:OHX:N6	2.50	0.44
36:5:731:U:H2'	36:5:732:C:H6	1.82	0.44
36:5:914:A:C2	39:l2:204:MET:HG3	2.53	0.44
36:5:2308:C:O2	86:5:4239:OHX:N1	2.50	0.44
36:5:2971:A:H4'	36:5:2972:G:OP2	2.17	0.44
86:5:4190:OHX:N1	86:5:4192:OHX:N4	2.66	0.44
41:l4:271:LYS:O	41:l4:274:TYR:HB3	2.17	0.44
43:l6:31:ARG:NH1	69:o3:107:ILE:HG22	2.32	0.44
49:m3:23:LYS:HE3	49:m3:23:LYS:HB2	1.78	0.44
51:m5:35:VAL:HG13	51:m5:65:ARG:HB3	1.99	0.44
51:m5:114:ARG:NH2	51:m5:157:LYS:HG2	2.32	0.44
51:m5:156:HIS:HB3	51:m5:159:ARG:HD2	1.99	0.44
57:n1:87:LYS:HB3	57:n1:87:LYS:HE3	1.67	0.44
58:n2:77:LYS:HD2	58:n2:95:PHE:CD1	2.53	0.44
59:n3:87:ARG:HH12	59:n3:137:VAL:HG11	1.82	0.44
64:n8:47:LYS:C	64:n8:49:HIS:H	2.25	0.44
71:o5:6:ALA:O	71:o5:10:ARG:HG3	2.17	0.44
1:2:365:G:N7	86:2:2107:OHX:N5	2.65	0.44
1:2:1228:G:OP1	14:C2:119:SER:HB3	2.17	0.44
1:2:1236:A:C1'	33:E1:138:ARG:HH22	2.30	0.44
1:2:1251:U:H4'	33:E1:133:ALA:HB1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1310:U:O2	1:2:1316:G:C2	2.71	0.44
1:2:1400:A:H4'	19:C7:60:ARG:NH2	2.32	0.44
2:S0:38:PHE:O	2:S0:39:ASN:C	2.60	0.44
2:S0:179:ARG:HH11	2:S0:183:ARG:NH1	2.16	0.44
5:S3:161:GLY:O	5:S3:164:VAL:HB	2.17	0.44
5:S3:170:THR:HG22	5:S3:171:ALA:H	1.82	0.44
8:S6:63:MET:HE2	8:S6:106:LEU:CD2	2.47	0.44
10:S8:152:ILE:HD13	10:S8:157:GLU:OE1	2.17	0.44
10:S8:197:THR:C	10:S8:199:LYS:H	2.26	0.44
19:C7:16:LEU:HD23	19:C7:16:LEU:HA	1.84	0.44
21:C9:14:PHE:CE2	21:C9:63:ARG:HG3	2.53	0.44
30:D8:66:LEU:HD23	30:D8:66:LEU:HA	1.82	0.44
36:1:225:C:H2'	36:1:226:C:H6	1.83	0.44
36:1:293:C:H2'	36:1:294:U:O4'	2.18	0.44
36:1:361:A:H5'	73:O7:35:SER:OG	2.17	0.44
36:1:1764:U:H3'	36:1:1765:U:C4'	2.48	0.44
36:1:1878:G:N3	36:1:1878:G:H5''	2.33	0.44
36:1:2421:U:O2'	78:Q2:52:GLY:HA3	2.18	0.44
36:1:3118:C:C4'	76:Q0:106:ARG:HH22	2.29	0.44
37:3:87:G:OP1	44:L7:221:LYS:NZ	2.51	0.44
38:4:19:C:H2'	38:4:20:U:O4'	2.17	0.44
44:L7:139:PRO:HA	44:L7:237:ASN:HD21	1.83	0.44
46:L9:106:LYS:O	46:L9:109:ALA:HB2	2.18	0.44
47:M0:74:LYS:O	47:M0:78:THR:HG23	2.18	0.44
49:M3:7:LEU:HA	49:M3:7:LEU:HD23	1.70	0.44
55:M9:110:ARG:O	55:M9:112:ALA:N	2.49	0.44
60:N4:63:ILE:HG23	60:N4:66:GLU:CB	2.48	0.44
63:N7:136:PHE:CD2	70:O4:76:TYR:HE2	2.36	0.44
1:6:29:U:H2'	1:6:30:G:C8	2.53	0.44
1:6:103:A:H8	1:6:103:A:H2'	1.64	0.44
1:6:199:G:HO2'	1:6:200:A:H8	1.66	0.44
1:6:479:C:O2	1:6:510:G:N2	2.51	0.44
1:6:753:A:N6	6:s4:187:ARG:HH22	2.15	0.44
1:6:1680:G:O6	86:6:2188:OHX:N1	2.51	0.44
1:6:1685:G:H1	1:6:1716:C:N4	2.15	0.44
5:s3:5:ILE:CG2	5:s3:10:LYS:HB3	2.48	0.44
7:s5:131:GLN:NE2	7:s5:135:ASP:OD2	2.51	0.44
11:s9:113:VAL:CG2	11:s9:134:ILE:HG21	2.47	0.44
20:c8:35:ILE:HB	20:c8:38:VAL:HG13	2.00	0.44
23:d1:30:ALA:O	23:d1:60:ARG:HD3	2.18	0.44
36:5:162:G:H2'	36:5:163:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:240:U:O2'	36:5:241:G:H8	2.01	0.44
36:5:853:G:N7	79:q3:2:ALA:HB2	2.32	0.44
36:5:908:G:H4'	36:5:909:G:O5'	2.18	0.44
36:5:1536:G:O6	86:5:3923:OHX:N2	2.51	0.44
36:5:1716:U:HO2'	36:5:1717:U:P	2.41	0.44
36:5:2267:C:H2'	36:5:2268:U:C6	2.53	0.44
36:5:2427:U:H2'	36:5:2428:U:C6	2.53	0.44
36:5:2701:U:P	57:n1:17:ARG:HD2	2.58	0.44
47:m0:208:ASN:HB3	47:m0:211:ARG:HH11	1.83	0.44
52:m6:171:LYS:O	52:m6:174:PHE:N	2.51	0.44
55:m9:99:LEU:O	55:m9:103:ARG:HG3	2.18	0.44
60:n4:97:LYS:HA	60:n4:97:LYS:HE3	2.00	0.44
63:n7:67:LYS:C	63:n7:68:ILE:HG13	2.43	0.44
68:o2:109:LEU:HD23	68:o2:109:LEU:HA	1.53	0.44
72:o6:57:LEU:HD11	72:o6:73:ALA:HB2	2.00	0.44
1:2:275:C:H2'	1:2:276:C:C5	2.53	0.43
1:2:526:A:C6	1:2:527:A:C5	3.06	0.43
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.51	0.43
1:2:892:A:C6	1:2:893:U:C4	3.06	0.43
1:2:1145:U:C4	1:2:1146:G:N7	2.86	0.43
1:2:1238:A:OP2	86:2:2048:OHX:N2	2.51	0.43
1:2:1241:G:C6	1:2:1242:A:C6	3.05	0.43
1:2:1247:U:H5''	33:E1:94:LYS:O	2.18	0.43
1:2:1494:C:H2'	1:2:1495:C:C6	2.53	0.43
1:2:1620:C:OP2	86:2:2164:OHX:N6	2.50	0.43
1:2:1629:G:H2'	1:2:1630:U:H6	1.83	0.43
1:2:1653:C:N4	1:2:1654:G:C6	2.86	0.43
2:S0:63:ILE:HG12	23:D1:36:VAL:HG23	1.99	0.43
3:S1:117:TRP:NE1	3:S1:152:ARG:CZ	2.81	0.43
3:S1:129:THR:HA	3:S1:177:GLN:HA	1.99	0.43
4:S2:115:ILE:HD13	4:S2:208:GLU:HG2	1.99	0.43
4:S2:148:LEU:HA	23:D1:4:ASP:HB2	1.99	0.43
5:S3:116:ARG:O	5:S3:120:TYR:HB2	2.17	0.43
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.17	0.43
6:S4:158:ASP:OD1	6:S4:174:LYS:HA	2.18	0.43
17:C5:128:HIS:O	17:C5:130:ARG:HG2	2.17	0.43
28:D6:84:VAL:HG22	28:D6:85:ARG:C	2.43	0.43
36:1:69:C:N4	36:1:314:U:H4'	2.33	0.43
36:1:501:A:H5''	43:L6:28:GLN:HE21	1.83	0.43
36:1:972:A:H2'	36:1:973:A:O4'	2.18	0.43
36:1:1016:C:O2	36:1:1028:U:N3	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1158:A:H8	36:1:1158:A:O5'	2.01	0.43
36:1:1204:A:C2	36:1:2834:G:N3	2.85	0.43
36:1:1307:G:C5	52:M6:60:LYS:HD3	2.53	0.43
36:1:1367:G:OP1	68:O2:45:ARG:NH2	2.51	0.43
36:1:1927:G:OP2	79:Q3:6:LYS:N	2.37	0.43
36:1:2193:U:O2	36:1:2193:U:H2'	2.17	0.43
36:1:2553:U:O2'	70:O4:91:ARG:NE	2.40	0.43
36:1:2871:G:H5''	36:1:2872:A:H5'	2.00	0.43
86:1:3973:OHX:N1	86:1:4154:OHX:N4	2.66	0.43
38:4:15:G:C6	38:4:16:G:N1	2.86	0.43
39:L2:29:LEU:HA	39:L2:76:PHE:CE1	2.53	0.43
39:L2:201:GLY:CA	39:L2:204:MET:HG3	2.47	0.43
42:L5:56:THR:C	42:L5:58:LYS:N	2.75	0.43
42:L5:278:SER:O	42:L5:281:GLU:HB2	2.18	0.43
49:M3:143:ALA:O	49:M3:146:PRO:HD3	2.17	0.43
51:M5:5:LYS:NZ	72:O6:37:THR:HG22	2.33	0.43
52:M6:45:GLY:O	52:M6:136:THR:OG1	2.36	0.43
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.53	0.43
67:O1:35:GLU:O	67:O1:38:LYS:HB3	2.18	0.43
74:O8:43:PHE:CE1	74:O8:65:LEU:HD13	2.53	0.43
1:6:78:A:H1'	8:s6:175:ILE:HG12	2.00	0.43
1:6:93:A:C6	1:6:398:G:C6	3.06	0.43
1:6:149:C:H2'	1:6:150:U:H6	1.83	0.43
1:6:368:U:O2'	1:6:603:U:O2'	2.34	0.43
1:6:1006:C:H5''	1:6:1007:C:OP2	2.17	0.43
1:6:1067:C:H5''	3:s1:150:VAL:HG23	2.00	0.43
1:6:1231:U:C5	33:e1:97:LYS:HE2	2.52	0.43
3:s1:48:VAL:HG22	3:s1:64:ARG:NH2	2.33	0.43
4:s2:137:ILE:HD12	4:s2:215:PHE:CE2	2.53	0.43
7:s5:73:THR:C	7:s5:75:GLY:H	2.25	0.43
7:s5:93:LEU:HD23	7:s5:93:LEU:HA	1.76	0.43
8:s6:78:THR:HG22	8:s6:79:LYS:N	2.33	0.43
9:s7:55:LYS:NZ	9:s7:87:ASP:HA	2.32	0.43
22:d0:25:THR:HB	22:d0:115:GLU:HG2	1.99	0.43
23:d1:2:GLU:HG3	23:d1:3:ASN:H	1.82	0.43
26:d4:27:VAL:O	26:d4:28:LEU:HD12	2.18	0.43
34:sR:42:LEU:HD21	34:sR:82:SER:HB3	2.00	0.43
34:sR:157:VAL:HA	34:sR:158:PRO:HD2	1.79	0.43
35:sM:64:LYS:O	35:sM:66:ALA:N	2.47	0.43
36:5:629:U:H2'	36:5:630:A:C8	2.53	0.43
36:5:878:G:O6	40:l3:243:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1021:G:N1	36:5:1032:C:O2	2.50	0.43
36:5:1543:G:OP1	51:m5:35:VAL:HG23	2.18	0.43
36:5:1729:A:H4'	36:5:1730:G:OP2	2.17	0.43
36:5:1804:A:H5'	70:o4:70:LYS:HD2	2.00	0.43
36:5:2273:G:O6	86:5:3979:OHX:N2	2.51	0.43
36:5:2993:G:C6	36:5:3142:A:C4	3.06	0.43
86:5:3980:OHX:N4	51:m5:204:LYS:O	2.51	0.43
37:7:43:U:C4	37:7:44:C:C4	3.05	0.43
38:8:42:G:OP1	73:o7:60:GLY:N	2.51	0.43
39:l2:205:ASN:HB3	39:l2:206:PRO:HD2	2.00	0.43
40:l3:123:TYR:CZ	40:l3:124:LYS:HD3	2.53	0.43
43:l6:85:ILE:HG23	69:o3:107:ILE:HG12	1.99	0.43
46:l9:92:TYR:CG	46:l9:142:ASP:HB3	2.53	0.43
46:l9:171:ASP:CG	46:l9:173:ARG:HH11	2.25	0.43
51:m5:143:ARG:HH21	71:o5:92:LEU:HA	1.82	0.43
52:m6:62:THR:O	52:m6:63:ALA:C	2.60	0.43
52:m6:121:PRO:HD2	56:n0:162:THR:O	2.18	0.43
53:m7:95:LEU:HD23	53:m7:95:LEU:HA	1.91	0.43
54:m8:83:VAL:O	54:m8:83:VAL:HG12	2.18	0.43
78:q2:78:LYS:HG2	78:q2:79:THR:N	2.29	0.43
1:2:97:C:O2	1:2:425:A:O2'	2.31	0.43
1:2:525:A:C6	1:2:526:A:C6	3.06	0.43
1:2:579:A:C2	5:S3:143:ARG:NE	2.86	0.43
1:2:796:A:OP2	86:2:2058:OHX:N6	2.51	0.43
1:2:839:U:H2'	1:2:840:U:H5'	2.00	0.43
1:2:1044:U:H2'	1:2:1045:C:C6	2.53	0.43
1:2:1340:U:O4'	1:2:1378:U:H5'	2.18	0.43
1:2:1498:G:O2'	1:2:1499:G:H5'	2.17	0.43
1:2:1727:G:H2'	1:2:1728:A:C8	2.53	0.43
3:S1:23:PRO:HB3	3:S1:26:ARG:CZ	2.48	0.43
3:S1:195:LYS:O	3:S1:199:ASN:ND2	2.33	0.43
6:S4:145:ARG:NH1	6:S4:162:ILE:HG21	2.33	0.43
6:S4:230:GLU:HB2	6:S4:233:LYS:CB	2.47	0.43
7:S5:117:THR:O	7:S5:121:ILE:HG13	2.18	0.43
8:S6:120:GLU:HG3	8:S6:125:THR:CG2	2.48	0.43
12:C0:18:GLU:O	12:C0:89:ALA:HB2	2.18	0.43
16:C4:117:ASP:OD1	16:C4:118:VAL:N	2.51	0.43
21:C9:23:GLN:HG2	21:C9:55:TYR:CD1	2.53	0.43
21:C9:54:PHE:CE1	21:C9:104:VAL:HG23	2.52	0.43
21:C9:126:GLU:CD	21:C9:126:GLU:N	2.76	0.43
23:D1:70:ASN:HD22	23:D1:82:VAL:CG1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:79:LEU:HD13	23:D1:82:VAL:HG11	2.00	0.43
27:D5:56:THR:HA	27:D5:103:ARG:HH11	1.83	0.43
36:1:612:U:H2'	36:1:613:G:H8	1.83	0.43
36:1:770:G:OP1	49:M3:171:ARG:HD2	2.18	0.43
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.52	0.43
36:1:1307:G:OP2	52:M6:59:ARG:NH1	2.51	0.43
36:1:1481:A:H2'	36:1:1858:A:N3	2.33	0.43
36:1:1831:U:OP2	61:N5:92:LYS:HD3	2.18	0.43
36:1:2567:C:O2'	36:1:2568:C:H5'	2.18	0.43
36:1:2577:C:H2'	36:1:2578:U:O4'	2.18	0.43
36:1:3087:A:H5''	40:L3:365:PHE:CE1	2.52	0.43
37:3:87:G:O2'	56:N0:119:ARG:NH2	2.51	0.43
40:L3:188:ILE:O	40:L3:191:LYS:HB2	2.18	0.43
41:L4:191:LYS:O	41:L4:192:GLY:C	2.61	0.43
42:L5:148:ILE:HG12	42:L5:159:VAL:HG11	2.00	0.43
44:L7:163:LEU:O	44:L7:165:ASP:N	2.49	0.43
46:L9:2:LYS:HA	46:L9:60:GLY:O	2.18	0.43
46:L9:3:TYR:CD2	46:L9:3:TYR:N	2.86	0.43
46:L9:89:LYS:HG3	46:L9:183:HIS:HB3	2.00	0.43
49:M3:89:TYR:O	49:M3:92:THR:N	2.47	0.43
52:M6:111:PRO:O	52:M6:113:ASP:N	2.50	0.43
55:M9:164:LEU:C	55:M9:166:ASN:H	2.27	0.43
58:N2:49:ASN:C	58:N2:51:GLY:H	2.26	0.43
60:N4:57:LYS:HE3	60:N4:57:LYS:HB2	1.75	0.43
76:Q0:124:LYS:O	76:Q0:126:LYS:NZ	2.49	0.43
79:Q3:83:ILE:HD13	79:Q3:83:ILE:HA	1.88	0.43
1:6:63:G:C6	1:6:64:U:C5	3.06	0.43
1:6:336:G:H5'	13:c1:130:PRO:O	2.17	0.43
1:6:397:A:H5''	10:s8:51:GLY:H	1.83	0.43
1:6:998:A:H2	87:6:2204:PCY:H111	1.82	0.43
1:6:1157:A:OP2	86:6:2142:OHX:N1	2.51	0.43
2:s0:124:THR:HA	2:s0:146:LEU:HB2	1.99	0.43
4:s2:141:ARG:H	4:s2:141:ARG:HG2	1.56	0.43
4:s2:237:VAL:HB	4:s2:242:ILE:CD1	2.46	0.43
6:s4:73:ASP:H	6:s4:89:VAL:HG12	1.82	0.43
6:s4:212:ASP:O	6:s4:214:LEU:N	2.47	0.43
7:s5:45:LYS:HD3	7:s5:45:LYS:HA	1.53	0.43
9:s7:26:GLU:HG2	9:s7:27:LEU:HD23	1.99	0.43
15:c3:102:LEU:HD23	15:c3:102:LEU:HA	1.77	0.43
17:c5:48:GLY:O	17:c5:50:THR:N	2.51	0.43
17:c5:92:SER:H	17:c5:107:ILE:HG12	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:47:LYS:HD2	18:c6:47:LYS:HA	1.78	0.43
18:c6:95:LYS:O	34:sR:59:ARG:NH2	2.51	0.43
20:c8:54:LEU:C	20:c8:56:LYS:H	2.27	0.43
30:d8:58:GLU:HB3	30:d8:61:ARG:HG3	2.00	0.43
80:e0:44:PHE:O	80:e0:45:VAL:HB	2.18	0.43
33:e1:119:ARG:O	33:e1:132:LEU:HG	2.18	0.43
36:5:637:C:C2	36:5:638:C:C5	3.06	0.43
36:5:1062:A:H4'	57:n1:105:PHE:CE2	2.53	0.43
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.18	0.43
36:5:1232:C:C5	36:5:1261:G:H2'	2.53	0.43
36:5:1781:C:H2'	36:5:1782:U:H6	1.81	0.43
36:5:1795:U:H2'	39:l2:50:HIS:CD2	2.52	0.43
36:5:1806:A:H2'	36:5:1807:G:O4'	2.18	0.43
37:7:8:G:O6	42:l5:21:ARG:NH2	2.42	0.43
38:8:82:U:H2'	38:8:83:C:H5'	1.99	0.43
38:8:142:C:H2'	38:8:143:U:C6	2.53	0.43
38:8:157:U:H3'	38:8:158:U:H3'	2.00	0.43
41:l4:74:ILE:HG23	41:l4:75:PRO:O	2.18	0.43
42:l5:146:LEU:HD13	42:l5:148:ILE:HD13	2.00	0.43
42:l5:150:LEU:HA	42:l5:150:LEU:HD23	1.57	0.43
44:l7:53:LYS:O	44:l7:57:THR:HG23	2.18	0.43
55:m9:151:ARG:O	55:m9:155:LEU:HG	2.17	0.43
56:n0:71:LYS:HG2	56:n0:73:LYS:HD3	2.00	0.43
68:o2:103:LYS:HG3	68:o2:104:ASN:H	1.82	0.43
70:o4:96:GLU:O	70:o4:99:LYS:HB2	2.17	0.43
1:2:67:A:O3'	1:2:68:A:H3'	2.18	0.43
1:2:224:C:H2'	1:2:225:A:C8	2.53	0.43
1:2:416:A:H4'	1:2:417:A:OP2	2.18	0.43
1:2:543:C:H5''	1:2:543:C:O2	2.19	0.43
1:2:645:C:H42	1:2:689:G:H1	1.65	0.43
1:2:712:G:H2'	1:2:713:A:O4'	2.19	0.43
1:2:1088:A:H4'	1:2:1143:A:H5'	2.00	0.43
1:2:1237:G:H1	1:2:1248:C:H42	1.65	0.43
1:2:1466:G:OP1	18:C6:139:GLN:HB3	2.18	0.43
5:S3:50:ILE:N	5:S3:87:TYR:O	2.46	0.43
7:S5:71:ALA:O	7:S5:91:GLU:HG3	2.18	0.43
7:S5:156:ARG:H	7:S5:156:ARG:HG3	1.61	0.43
9:S7:170:GLN:HA	9:S7:181:ILE:HG22	2.00	0.43
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	2.53	0.43
11:S9:139:GLN:NE2	26:D4:64:PHE:O	2.48	0.43
21:C9:25:GLN:HE21	21:C9:25:GLN:HB2	1.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:99:SER:O	21:C9:103:LYS:HB2	2.18	0.43
24:D2:28:ARG:HA	24:D2:29:PRO:HA	1.63	0.43
25:D3:59:ILE:CD1	32:E0:4:VAL:HG13	2.48	0.43
26:D4:26:ASP:OD1	26:D4:68:LYS:HE3	2.19	0.43
34:SR:222:LEU:HG	34:SR:232:TYR:HE2	1.82	0.43
36:1:29:C:H4'	36:1:62:A:H4'	1.98	0.43
36:1:659:G:H2'	36:1:1432:C:N4	2.32	0.43
36:1:1212:A:H2'	36:1:1213:G:H5''	2.00	0.43
36:1:1615:C:H2'	36:1:1616:U:C6	2.54	0.43
36:1:2890:A:O2'	36:1:2933:A:N3	2.49	0.43
36:1:3047:U:O2'	36:1:3048:A:H5'	2.18	0.43
39:L2:201:GLY:O	39:L2:204:MET:HG3	2.18	0.43
42:L5:79:TYR:HB2	42:L5:81:HIS:CE1	2.53	0.43
42:L5:160:PHE:CD2	42:L5:179:ARG:HB3	2.53	0.43
43:L6:6:ALA:HA	43:L6:7:PRO:HD2	1.48	0.43
44:L7:121:LYS:HD2	44:L7:125:GLU:HG2	2.00	0.43
46:L9:91:ARG:HH21	46:L9:91:ARG:HG3	1.83	0.43
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	2.00	0.43
49:M3:190:LYS:HB2	49:M3:190:LYS:HE2	1.48	0.43
54:M8:57:ILE:HD13	54:M8:57:ILE:HG21	1.66	0.43
54:M8:90:ASP:C	54:M8:92:ARG:H	2.26	0.43
55:M9:96:ILE:O	55:M9:100:ARG:HG3	2.18	0.43
58:N2:21:SER:HA	58:N2:24:GLU:OE2	2.18	0.43
59:N3:80:ARG:HH12	59:N3:116:GLY:HA3	1.83	0.43
63:N7:135:ARG:HG2	63:N7:135:ARG:NH2	2.33	0.43
65:N9:28:LYS:HD2	65:N9:29:TYR:H	1.82	0.43
1:6:276:C:H1'	1:6:277:U:C5	2.53	0.43
1:6:306:U:OP1	13:c1:105:LYS:HD2	2.18	0.43
1:6:472:U:H5''	11:s9:11:THR:HG23	2.01	0.43
1:6:491:C:H42	1:6:497:G:H21	1.65	0.43
1:6:1095:U:O4	86:6:2179:OHX:N2	2.51	0.43
1:6:1504:G:H2'	1:6:1505:A:C8	2.53	0.43
2:s0:54:TRP:O	2:s0:58:VAL:HG23	2.18	0.43
7:s5:156:ARG:HA	7:s5:157:ARG:HE	1.83	0.43
11:s9:129:ILE:HA	11:s9:134:ILE:CG1	2.48	0.43
16:c4:128:LYS:HD3	28:d6:27:SER:OG	2.18	0.43
18:c6:20:ALA:HB2	18:c6:84:ALA:HB1	1.99	0.43
18:c6:99:GLU:O	18:c6:102:LYS:N	2.51	0.43
80:e0:39:LEU:HD12	80:e0:39:LEU:HA	1.74	0.43
34:sR:96:THR:HG23	34:sR:98:GLU:HB3	2.00	0.43
36:5:156:G:P	72:o6:27:SER:HG	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:304:G:C6	51:m5:178:HIS:CD2	3.07	0.43
36:5:335:G:OP2	62:n6:14:LYS:HE3	2.18	0.43
36:5:796:U:H2'	36:5:797:U:C6	2.53	0.43
36:5:1510:G:H8	36:5:1510:G:O5'	2.01	0.43
36:5:1580:A:HO2'	36:5:1581:C:P	2.39	0.43
36:5:1716:U:H3'	36:5:1716:U:P	2.57	0.43
36:5:2228:A:H2'	36:5:2229:A:H8	1.83	0.43
36:5:2822:U:H2'	36:5:2823:G:O4'	2.19	0.43
36:5:3366:G:C6	36:5:3367:C:N4	2.86	0.43
45:l8:81:THR:OG1	45:l8:82:LEU:N	2.46	0.43
49:m3:144:THR:O	49:m3:146:PRO:HD3	2.18	0.43
52:m6:57:PHE:CZ	52:m6:82:LYS:HE3	2.53	0.43
60:n4:55:PHE:CD1	60:n4:55:PHE:C	2.96	0.43
63:n7:58:GLY:O	63:n7:62:VAL:HG23	2.18	0.43
69:o3:51:TYR:CE2	69:o3:53:TYR:HB3	2.53	0.43
71:o5:49:LYS:HE3	71:o5:49:LYS:HB3	1.65	0.43
75:o9:28:ARG:H	75:o9:28:ARG:HG2	1.36	0.43
78:q2:47:GLN:OE1	78:q2:54:THR:OG1	2.25	0.43
1:2:193:U:H2'	1:2:194:U:H2'	2.01	0.43
1:2:538:A:C8	1:2:543:C:C4	3.06	0.43
3:S1:178:GLY:HA3	3:S1:187:LYS:NZ	2.34	0.43
4:S2:242:ILE:HD12	4:S2:242:ILE:HA	1.75	0.43
5:S3:105:MET:HG3	5:S3:122:VAL:HG21	1.99	0.43
7:S5:37:GLN:CD	18:C6:53:LEU:HD13	2.43	0.43
7:S5:176:THR:OG1	7:S5:177:ILE:N	2.51	0.43
9:S7:91:ILE:HD12	9:S7:91:ILE:HA	1.87	0.43
13:C1:127:GLN:HG3	13:C1:137:PHE:CZ	2.53	0.43
13:C1:142:VAL:HG12	13:C1:144:ALA:H	1.84	0.43
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.51	0.43
20:C8:145:ARG:HB3	20:C8:146:ALA:H	1.37	0.43
28:D6:38:ARG:NH2	28:D6:83:ILE:HG21	2.33	0.43
34:SR:34:LEU:HD23	34:SR:71:CYS:HB3	2.00	0.43
35:SM:101:ASP:HB3	35:SM:102:THR:H	1.67	0.43
36:1:586:C:OP1	69:O3:70:LYS:NZ	2.26	0.43
36:1:725:G:H3'	36:1:726:G:H5''	1.99	0.43
36:1:951:A:C4	36:1:1369:A:C2	3.06	0.43
36:1:1230:G:H2'	36:1:1231:A:H8	1.82	0.43
36:1:1262:G:C6	36:1:1278:A:N6	2.87	0.43
36:1:1667:A:O5'	36:1:1667:A:H8	2.01	0.43
36:1:1694:U:N3	36:1:1695:U:C4	2.87	0.43
36:1:1819:U:O4	86:1:4039:OHX:N4	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2907:G:OP1	86:1:4187:OHX:N1	2.52	0.43
86:1:4026:OHX:N4	86:1:4146:OHX:N3	2.66	0.43
37:3:64:A:N7	47:M0:209:ASN:ND2	2.67	0.43
39:L2:101:VAL:C	39:L2:102:LEU:HD12	2.43	0.43
41:L4:327:LEU:H	41:L4:327:LEU:HD22	1.83	0.43
43:L6:78:ARG:NH2	43:L6:106:PHE:HB2	2.33	0.43
45:L8:82:LEU:HD21	45:L8:218:ILE:HG12	2.01	0.43
45:L8:95:ASN:C	45:L8:97:TYR:H	2.26	0.43
45:L8:182:GLY:O	45:L8:186:LEU:HG	2.18	0.43
47:M0:37:GLY:O	47:M0:39:LYS:N	2.51	0.43
50:M4:128:ARG:HG2	50:M4:132:LYS:HG3	2.00	0.43
51:M5:10:LEU:O	51:M5:10:LEU:HD22	2.18	0.43
51:M5:96:ARG:HG2	51:M5:96:ARG:HH11	1.82	0.43
54:M8:57:ILE:HG22	54:M8:58:ASN:N	2.33	0.43
54:M8:166:LEU:HD23	54:M8:166:LEU:HA	1.78	0.43
58:N2:23:THR:HA	58:N2:28:PHE:HB3	2.01	0.43
59:N3:22:ILE:HG12	59:N3:35:TYR:HA	2.01	0.43
72:O6:99:ARG:HB3	72:O6:100:HIS:H	1.46	0.43
79:Q3:73:THR:HG23	79:Q3:76:ALA:H	1.83	0.43
1:6:336:G:P	13:c1:129:ARG:HH21	2.41	0.43
1:6:538:A:C8	1:6:543:C:C5	3.06	0.43
1:6:1002:G:C6	1:6:1003:A:N7	2.86	0.43
1:6:1203:A:C4	1:6:1556:A:C2	3.07	0.43
1:6:1363:U:O2'	1:6:1364:G:H5'	2.17	0.43
1:6:1535:U:O2'	1:6:1536:G:P	2.76	0.43
1:6:1592:A:C2	1:6:1605:G:C2	3.06	0.43
6:s4:161:LYS:HB3	6:s4:170:THR:O	2.18	0.43
7:s5:222:LYS:HA	7:s5:225:ARG:HH11	1.82	0.43
11:s9:44:ARG:O	11:s9:47:PHE:HB3	2.18	0.43
13:c1:77:SER:HB3	13:c1:85:VAL:HB	2.01	0.43
14:c2:98:GLY:O	14:c2:102:GLY:N	2.50	0.43
15:c3:96:VAL:HG13	15:c3:100:LYS:HE3	1.99	0.43
19:c7:81:LYS:HB3	19:c7:81:LYS:HE3	1.71	0.43
25:d3:73:ARG:HE	25:d3:84:THR:HG22	1.82	0.43
31:d9:21:CYS:C	31:d9:23:VAL:H	2.26	0.43
36:5:997:A:H4'	37:7:80:G:H5'	2.00	0.43
36:5:1027:A:N7	36:5:1029:G:C2	2.86	0.43
36:5:1200:A:H5'	36:5:1201:C:O5'	2.18	0.43
36:5:1220:U:OP1	36:5:1221:A:O2'	2.31	0.43
37:7:48:U:O2	37:7:50:U:C4	2.72	0.43
41:l4:246:ARG:O	41:l4:248:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:52:VAL:HG11	43:l6:65:ILE:HG23	2.00	0.43
43:l6:62:THR:OG1	43:l6:78:ARG:HD3	2.18	0.43
45:l8:71:VAL:HG22	45:l8:76:ALA:HB2	1.99	0.43
45:l8:84:ARG:O	45:l8:87:ALA:HB3	2.18	0.43
47:m0:48:LEU:HD22	47:m0:49:CYS:N	2.33	0.43
81:m2:125:UNK:O	81:m2:127:UNK:N	2.52	0.43
63:n7:5:LEU:HD22	63:n7:77:TYR:HE2	1.82	0.43
66:o0:30:THR:O	66:o0:34:LEU:N	2.50	0.43
76:q0:92:ASP:C	76:q0:93:LYS:HG2	2.42	0.43
1:2:912:U:OP1	1:2:913:G:O2'	2.28	0.43
1:2:1053:G:C2	1:2:1067:C:C2	3.07	0.43
1:2:1079:U:H2'	1:2:1080:U:C6	2.54	0.43
1:2:1150:G:O2'	1:2:1768:G:N2	2.51	0.43
1:2:1151:A:H4'	1:2:1766:A:C5	2.54	0.43
1:2:1445:G:C5	33:E1:91:ILE:HB	2.54	0.43
1:2:1466:G:O2'	1:2:1602:C:OP1	2.35	0.43
1:2:1566:U:O2'	1:2:1567:U:H5'	2.19	0.43
1:2:1765:A:C8	1:2:1768:G:N2	2.83	0.43
3:S1:59:ASP:HA	3:S1:62:LYS:NZ	2.33	0.43
4:S2:38:VAL:HG12	4:S2:65:GLU:OE1	2.19	0.43
4:S2:106:ASP:CG	4:S2:108:ASN:H	2.26	0.43
5:S3:108:LYS:O	5:S3:111:ASN:N	2.50	0.43
6:S4:88:ASP:HA	6:S4:122:LYS:HZ1	1.83	0.43
7:S5:49:GLU:O	7:S5:51:VAL:HG23	2.17	0.43
21:C9:14:PHE:HE1	21:C9:136:ALA:HB2	1.84	0.43
27:D5:87:GLY:C	27:D5:89:ILE:N	2.77	0.43
34:SR:188:ILE:HD12	34:SR:188:ILE:HA	1.85	0.43
36:1:587:U:C2'	36:1:588:G:H5'	2.48	0.43
36:1:1051:U:H4'	57:N1:19:PHE:CE2	2.53	0.43
36:1:1719:G:H2'	36:1:1720:U:O4'	2.18	0.43
36:1:1770:G:C6	36:1:1771:C:C4	3.07	0.43
36:1:1882:G:O2'	36:1:1883:A:H5'	2.19	0.43
36:1:3159:C:H2'	36:1:3160:U:C6	2.53	0.43
36:1:3326:G:C4	36:1:3327:G:C8	3.06	0.43
37:3:28:C:N4	37:3:29:C:C2	2.87	0.43
40:L3:186:GLY:O	40:L3:191:LYS:HE2	2.19	0.43
40:L3:351:LEU:HD23	40:L3:351:LEU:HA	1.65	0.43
41:L4:200:THR:HG23	41:L4:201:GLN:N	2.32	0.43
44:L7:170:GLU:HG3	44:L7:179:LEU:HB3	2.00	0.43
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.52	0.43
54:M8:66:ARG:NH2	54:M8:143:PRO:HG3	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:90:ASP:O	54:M8:92:ARG:N	2.51	0.43
55:M9:8:LYS:O	55:M9:11:ALA:HB3	2.18	0.43
64:N8:95:SER:O	64:N8:99:ALA:HB2	2.18	0.43
65:N9:23:LYS:HD2	65:N9:23:LYS:HA	1.64	0.43
71:O5:53:CYS:O	71:O5:57:VAL:HG23	2.19	0.43
78:Q2:9:LYS:HB2	78:Q2:9:LYS:HE3	1.81	0.43
1:6:512:A:C8	1:6:512:A:H3'	2.54	0.43
1:6:512:A:O2'	1:6:513:U:H5'	2.18	0.43
1:6:542:A:H1'	1:6:543:C:P	2.58	0.43
1:6:1597:A:P	31:d9:19:ARG:HH22	2.41	0.43
3:s1:70:LEU:HD13	3:s1:79:HIS:CG	2.54	0.43
3:s1:92:GLN:HG3	3:s1:92:GLN:O	2.19	0.43
4:s2:153:SER:OG	4:s2:195:ASP:O	2.31	0.43
5:s3:192:PRO:O	5:s3:195:SER:OG	2.36	0.43
6:s4:77:ARG:HD2	6:s4:82:TYR:CE1	2.53	0.43
8:s6:55:GLY:N	8:s6:63:MET:HE3	2.33	0.43
13:c1:54:ILE:HD13	13:c1:54:ILE:HA	1.70	0.43
20:c8:26:ILE:HD12	20:c8:31:ALA:HA	1.99	0.43
24:d2:24:GLN:HA	24:d2:63:VAL:O	2.18	0.43
27:d5:47:TYR:CE2	27:d5:51:LEU:HD11	2.53	0.43
36:5:752:C:H2'	36:5:753:C:C6	2.53	0.43
36:5:1620:U:H2'	36:5:1621:A:C8	2.52	0.43
36:5:2101:C:HO2'	36:5:2102:U:P	2.41	0.43
36:5:2309:A:H4'	86:5:4199:OHX:N4	2.34	0.43
36:5:2875:U:H3	36:5:2952:G:H1	1.65	0.43
36:5:3375:A:OP2	86:5:3959:OHX:N3	2.51	0.43
40:l3:92:TYR:HE1	40:l3:159:ARG:HD2	1.83	0.43
40:l3:346:THR:O	40:l3:348:ARG:N	2.52	0.43
40:l3:370:PHE:CE2	40:l3:376:LYS:HG3	2.53	0.43
41:l4:203:ARG:NH1	41:l4:226:GLU:OE2	2.52	0.43
41:l4:338:LYS:O	41:l4:340:GLY:N	2.52	0.43
81:m2:79:UNK:O	81:m2:83:UNK:N	2.52	0.43
49:m3:46:ILE:HD12	49:m3:46:ILE:HG23	1.81	0.43
51:m5:112:ASN:O	51:m5:138:GLN:NE2	2.52	0.43
64:n8:128:ARG:HB3	72:o6:8:ALA:CB	2.49	0.43
66:o0:14:LEU:HA	66:o0:14:LEU:HD23	1.76	0.43
74:o8:36:LYS:HA	74:o8:37:PRO:HD3	1.77	0.43
1:2:348:U:OP1	13:C1:85:VAL:HG11	2.19	0.43
1:2:442:C:H2'	1:2:443:C:H6	1.83	0.43
1:2:1183:A:N1	17:C5:99:GLY:HA3	2.33	0.43
1:2:1351:G:C2	1:2:1375:A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1445:G:C6	33:E1:91:ILE:HB	2.53	0.43
1:2:1604:U:C4	1:2:1605:G:N7	2.87	0.43
1:2:1660:A:H2'	1:2:1661:U:C6	2.53	0.43
3:S1:41:ARG:NH2	3:S1:232:HIS:HB3	2.34	0.43
4:S2:144:TRP:O	24:D2:97:ARG:HG3	2.19	0.43
8:S6:27:PHE:CZ	8:S6:111:LEU:HD11	2.53	0.43
10:S8:146:ARG:O	10:S8:147:ALA:HB3	2.19	0.43
10:S8:184:LEU:HB3	10:S8:189:LEU:HD13	2.00	0.43
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.29	0.43
14:C2:52:LEU:HD22	14:C2:57:ALA:HB2	2.00	0.43
28:D6:23:CYS:HB2	28:D6:74:CYS:HB3	1.99	0.43
28:D6:85:ARG:HE	28:D6:85:ARG:N	2.17	0.43
36:1:123:A:C6	36:1:150:A:C5	3.07	0.43
36:1:139:G:H2'	36:1:140:C:C6	2.53	0.43
36:1:424:G:O2'	68:O2:23:ASP:OD2	2.25	0.43
36:1:655:C:H2'	36:1:656:A:C8	2.53	0.43
36:1:781:G:N7	86:1:3938:OHX:N5	2.66	0.43
36:1:1278:A:HO2'	36:1:1279:C:H6	1.64	0.43
36:1:1458:U:H3	36:1:1474:A:N6	2.17	0.43
36:1:2310:U:OP1	86:1:4138:OHX:N2	2.51	0.43
36:1:2443:A:N6	36:1:2503:G:C2	2.86	0.43
36:1:2887:A:H2'	36:1:2887:A:N3	2.33	0.43
36:1:3039:C:OP1	59:N3:88:ARG:NH2	2.51	0.43
36:1:3066:U:H2'	36:1:3067:C:C6	2.53	0.43
36:1:3242:G:C2	36:1:3245:A:C8	3.07	0.43
36:1:3281:U:H2'	36:1:3282:U:C6	2.53	0.43
36:1:3365:U:H2'	36:1:3366:G:C8	2.53	0.43
86:1:4026:OHX:N6	86:1:4146:OHX:N5	2.66	0.43
86:1:4054:OHX:N4	86:1:4162:OHX:N3	2.66	0.43
37:3:57:G:H3'	37:3:58:C:C6	2.54	0.43
39:L2:113:VAL:HG23	39:L2:134:VAL:HG22	2.00	0.43
42:L5:222:LEU:O	42:L5:223:PHE:HB2	2.19	0.43
46:L9:34:LEU:HD21	46:L9:149:ASN:HB3	2.01	0.43
54:M8:123:THR:OG1	54:M8:126:GLN:HG3	2.19	0.43
59:N3:68:GLU:OE1	59:N3:68:GLU:N	2.40	0.43
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.19	0.43
73:O7:18:LEU:HD21	75:O9:51:ILE:CG2	2.49	0.43
73:O7:19:CYS:O	73:O7:23:GLY:N	2.49	0.43
74:O8:14:LEU:O	74:O8:20:VAL:HG21	2.19	0.43
79:Q3:29:LEU:HD23	79:Q3:29:LEU:HA	1.75	0.43
1:6:1162:C:H5''	1:6:1163:A:OP2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1615:C:H3'	7:s5:81:ARG:HD2	2.01	0.43
2:s0:87:LEU:HD13	2:s0:87:LEU:HA	1.77	0.43
2:s0:148:ASP:OD1	2:s0:149:LEU:N	2.42	0.43
7:s5:141:GLY:HA2	7:s5:142:PRO:HD3	1.85	0.43
9:s7:99:LEU:HA	9:s7:100:PRO:HD2	1.87	0.43
17:c5:127:ARG:O	17:c5:129:GLY:N	2.50	0.43
24:d2:5:SER:O	24:d2:7:LEU:N	2.46	0.43
24:d2:15:ASN:OD1	24:d2:71:LYS:HA	2.18	0.43
36:5:63:A:H8	36:5:63:A:O5'	2.01	0.43
36:5:93:C:OP2	36:5:2764:C:O2'	2.22	0.43
36:5:860:G:C6	39:12:181:LYS:HB3	2.53	0.43
36:5:877:C:C2'	36:5:878:G:H5'	2.48	0.43
36:5:926:A:H2'	36:5:927:C:C6	2.53	0.43
36:5:1128:U:H2'	36:5:1129:A:O4'	2.19	0.43
36:5:1795:U:C4	79:q3:51:ALA:HA	2.54	0.43
36:5:2767:U:H2'	36:5:2768:U:C6	2.53	0.43
36:5:2897:A:H2'	36:5:2899:C:C5'	2.48	0.43
36:5:2940:A:N7	40:l3:2:SER:N	2.65	0.43
36:5:3017:A:H2'	36:5:3018:C:C6	2.53	0.43
36:5:3272:C:O2	43:l6:80:ASN:HB2	2.18	0.43
39:l2:15:ILE:HD12	39:l2:15:ILE:HA	1.80	0.43
45:l8:202:GLU:O	45:l8:203:VAL:HB	2.19	0.43
46:l9:94:TYR:HB3	46:l9:99:ILE:HG13	2.00	0.43
46:l9:137:SER:OG	46:l9:143:GLU:HG2	2.19	0.43
47:m0:47:PRO:HB3	47:m0:171:TRP:CZ2	2.54	0.43
59:n3:129:VAL:O	59:n3:133:SER:OG	2.35	0.43
62:n6:5:SER:HB3	62:n6:8:VAL:HG22	2.00	0.43
62:n6:64:LYS:O	62:n6:66:GLN:N	2.52	0.43
71:o5:88:LEU:HD23	71:o5:88:LEU:HA	1.76	0.43
1:2:161:U:H2'	1:2:162:A:C8	2.54	0.43
1:2:213:A:OP2	86:2:2117:OHX:N2	2.52	0.43
1:2:549:G:H1	1:2:589:C:N4	2.17	0.43
1:2:872:G:H2'	1:2:873:U:O4'	2.19	0.43
1:2:1370:U:H1'	1:2:1371:A:OP2	2.18	0.43
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.54	0.43
3:S1:117:TRP:HE1	3:S1:152:ARG:CZ	2.32	0.43
12:C0:77:ARG:HA	12:C0:82:LEU:HD12	2.01	0.43
15:C3:102:LEU:HD23	15:C3:102:LEU:HA	1.78	0.43
15:C3:123:HIS:HE1	15:C3:141:TYR:HD2	1.66	0.43
16:C4:50:ALA:O	16:C4:52:ARG:N	2.48	0.43
16:C4:114:ARG:HA	28:D6:62:TYR:OH	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:96:LYS:HB2	20:C8:98:TYR:CE2	2.54	0.43
25:D3:4:GLY:O	25:D3:5:LYS:C	2.61	0.43
30:D8:26:THR:HB	30:D8:44:VAL:CG2	2.48	0.43
31:D9:46:LYS:HA	31:D9:46:LYS:HD3	1.74	0.43
33:E1:94:LYS:HD3	33:E1:94:LYS:HA	1.83	0.43
34:SR:231:MET:HB3	34:SR:232:TYR:H	1.66	0.43
36:1:561:C:H2'	36:1:562:C:H6	1.82	0.43
36:1:1159:A:O2'	36:1:1160:C:H5''	2.18	0.43
36:1:1461:A:C2'	36:1:1462:A:H5'	2.49	0.43
36:1:2155:G:OP1	39:L2:241:ARG:HG2	2.18	0.43
36:1:2585:G:N3	38:4:151:C:H5	2.17	0.43
36:1:3181:C:HO2'	52:M6:164:SER:HB3	1.84	0.43
36:1:3186:A:N3	46:L9:44:THR:OG1	2.52	0.43
36:1:3279:A:C2'	36:1:3280:U:H5'	2.48	0.43
36:1:3350:C:O2'	36:1:3351:U:O5'	2.36	0.43
40:L3:332:ARG:HG2	40:L3:332:ARG:NH1	2.33	0.43
41:L4:34:ILE:O	41:L4:38:VAL:HG23	2.19	0.43
41:L4:195:ARG:O	41:L4:196:ASN:HB2	2.19	0.43
42:L5:114:GLY:C	42:L5:116:ASP:N	2.77	0.43
46:L9:117:PHE:CE1	46:L9:165:CYS:HB3	2.54	0.43
46:L9:117:PHE:HE1	46:L9:178:GLY:HA2	1.82	0.43
49:M3:128:ARG:O	49:M3:130:GLY:N	2.51	0.43
51:M5:99:ARG:HD3	51:M5:167:THR:HB	2.00	0.43
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.99	0.43
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.53	0.43
69:O3:6:ARG:HD2	69:O3:8:TYR:O	2.19	0.43
73:O7:87:SER:C	86:O7:104:OHX:N1	2.77	0.43
1:6:1125:A:N7	1:6:1126:G:H1'	2.34	0.43
1:6:1410:A:H5''	18:c6:118:ILE:HG22	2.01	0.43
1:6:1650:U:H2'	1:6:1651:A:C8	2.53	0.43
86:6:2125:OHX:N5	86:6:2149:OHX:N3	2.66	0.43
3:s1:103:MET:HE2	3:s1:215:VAL:HG12	2.01	0.43
8:s6:31:ARG:N	8:s6:34:GLN:OE1	2.45	0.43
13:c1:99:ARG:HD3	25:d3:8:GLY:O	2.18	0.43
17:c5:117:GLY:C	17:c5:119:PHE:H	2.27	0.43
20:c8:4:VAL:HG11	27:d5:82:HIS:ND1	2.33	0.43
34:sR:61:PHE:CE1	34:sR:97:GLY:HA2	2.53	0.43
36:5:27:C:O2'	36:5:327:A:N3	2.50	0.43
36:5:83:U:H2'	36:5:84:U:O4'	2.19	0.43
36:5:812:G:N7	86:5:4044:OHX:N2	2.66	0.43
36:5:812:G:C2	36:5:929:A:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:996:A:C2	36:5:1054:A:C4	3.06	0.43
36:5:1378:U:OP1	86:5:4027:OHX:N3	2.51	0.43
36:5:1438:U:H2'	36:5:1439:U:H6	1.83	0.43
36:5:1529:A:OP2	36:5:1592:G:N2	2.49	0.43
36:5:1663:C:H1'	36:5:1722:U:O4	2.19	0.43
36:5:2218:G:H2'	36:5:2219:A:H8	1.83	0.43
36:5:3209:A:N1	50:m4:106:ARG:NH1	2.67	0.43
36:5:3291:G:H2'	36:5:3292:A:C8	2.53	0.43
36:5:3352:U:O4'	36:5:3353:G:C2	2.72	0.43
41:l4:141:ARG:CZ	41:l4:180:LYS:HD3	2.49	0.43
42:l5:21:ARG:HG2	42:l5:21:ARG:NH1	2.33	0.43
48:m1:9:MET:O	48:m1:11:ASP:N	2.51	0.43
49:m3:149:GLN:HE21	49:m3:149:GLN:HB2	1.70	0.43
53:m7:132:ALA:O	53:m7:133:HIS:HB2	2.18	0.43
56:n0:14:LEU:HD23	56:n0:14:LEU:HA	1.62	0.43
56:n0:17:GLU:O	56:n0:20:PRO:HD3	2.18	0.43
59:n3:85:TRP:O	59:n3:92:PHE:HA	2.19	0.43
61:n5:108:LEU:HD22	61:n5:108:LEU:HA	1.77	0.43
67:o1:46:THR:O	67:o1:47:ASP:HB3	2.19	0.43
75:o9:31:THR:C	75:o9:33:ASN:H	2.27	0.43
1:2:58:U:O4	86:2:2047:OHX:N1	2.52	0.43
1:2:338:C:P	13:C1:133:LYS:HG3	2.59	0.43
1:2:482:U:H2'	1:2:483:A:C8	2.54	0.43
2:S0:31:VAL:N	2:S0:149:LEU:O	2.40	0.43
4:S2:49:LYS:HD3	4:S2:49:LYS:HA	1.77	0.43
4:S2:59:HIS:CD2	4:S2:239:PRO:HD2	2.53	0.43
5:S3:162:GLN:HE21	5:S3:166:ASP:CG	2.26	0.43
7:S5:203:LYS:HD2	7:S5:203:LYS:HA	1.85	0.43
9:S7:99:LEU:HD12	9:S7:116:ARG:HG2	2.01	0.43
11:S9:97:LEU:HA	11:S9:97:LEU:HD23	1.74	0.43
11:S9:125:ALA:O	11:S9:129:ILE:HG13	2.19	0.43
36:1:717:C:N4	36:1:718:G:C2	2.87	0.43
36:1:1039:U:H2'	36:1:1040:A:C8	2.54	0.43
36:1:1100:U:OP2	44:L7:196:LYS:HE2	2.19	0.43
36:1:1307:G:H1'	36:1:1308:A:C8	2.53	0.43
36:1:1347:U:O4'	41:L4:305:ALA:HA	2.18	0.43
36:1:1613:A:OP2	74:O8:46:ARG:NH2	2.52	0.43
36:1:1763:U:H5'	36:1:1764:U:OP2	2.18	0.43
36:1:1940:G:H2'	36:1:1941:C:O4'	2.19	0.43
36:1:2405:C:O2	36:1:2819:A:N1	2.52	0.43
36:1:2516:U:O2'	36:1:2595:A:N6	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2875:U:H3'	36:1:2875:U:H6	1.84	0.43
36:1:2943:G:H2'	36:1:2944:U:O4'	2.19	0.43
36:1:3030:G:N7	86:1:4072:OHX:N6	2.67	0.43
36:1:3218:A:C4	69:O3:5:HIS:CE1	3.06	0.43
40:L3:239:PRO:O	40:L3:242:THR:HG23	2.19	0.43
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.52	0.43
44:L7:29:GLU:HA	44:L7:32:ALA:HB3	2.01	0.43
45:L8:81:THR:OG1	45:L8:82:LEU:N	2.51	0.43
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.19	0.43
51:M5:104:GLU:O	51:M5:108:ARG:HG3	2.18	0.43
57:N1:91:LEU:HD12	57:N1:96:ILE:HD11	2.01	0.43
1:6:83:G:N7	86:6:2097:OHX:N1	2.67	0.43
1:6:420:A:OP1	8:s6:96:SER:OG	2.27	0.43
1:6:716:C:H42	1:6:722:G:H1	1.67	0.43
1:6:834:G:O2'	1:6:835:U:OP1	2.32	0.43
1:6:895:G:O2'	16:c4:37:GLU:HA	2.19	0.43
1:6:950:C:H2'	1:6:951:A:C8	2.54	0.43
1:6:1692:G:H1	1:6:1710:U:H3	1.66	0.43
2:s0:7:PHE:HZ	23:d1:43:GLY:HA2	1.82	0.43
2:s0:109:ASN:O	2:s0:112:THR:HG22	2.19	0.43
3:s1:55:LYS:HD3	3:s1:55:LYS:HA	1.50	0.43
10:s8:114:GLU:OE2	10:s8:121:LEU:HB2	2.18	0.43
11:s9:168:ARG:HB3	11:s9:169:PRO:O	2.18	0.43
22:d0:57:ARG:HG3	22:d0:89:ARG:CZ	2.48	0.43
22:d0:98:GLN:O	22:d0:102:ARG:HB3	2.19	0.43
26:d4:27:VAL:HG12	26:d4:28:LEU:N	2.34	0.43
80:e0:45:VAL:H	80:e0:47:VAL:HG23	1.83	0.43
36:5:493:G:N2	36:5:494:G:H1'	2.34	0.43
36:5:531:G:H2'	36:5:532:A:O4'	2.19	0.43
36:5:832:G:C2	36:5:863:C:C2	3.06	0.43
36:5:1597:C:C4'	36:5:1696:A:H1'	2.49	0.43
36:5:2642:A:O2'	36:5:2643:A:H5'	2.19	0.43
37:7:1:G:C2	37:7:2:G:C8	3.07	0.43
37:7:64:A:C2	47:m0:202:LYS:HD3	2.54	0.43
38:8:38:U:C4	71:o5:89:ARG:HD2	2.54	0.43
46:l9:166:ARG:HH21	46:l9:168:ARG:NH1	2.16	0.43
46:l9:188:THR:HG22	46:l9:189:GLU:N	2.34	0.43
54:m8:122:ILE:HD13	54:m8:122:ILE:HG21	1.78	0.43
55:m9:10:LEU:HD12	55:m9:10:LEU:HA	1.86	0.43
56:n0:25:PHE:HA	57:n1:149:GLN:O	2.19	0.43
58:n2:17:VAL:HG22	58:n2:103:TYR:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:120:LYS:N	59:n3:137:VAL:HG23	2.29	0.43
62:n6:64:LYS:C	62:n6:66:GLN:H	2.27	0.43
63:n7:22:LYS:NZ	63:n7:132:SER:O	2.49	0.43
64:n8:73:LEU:HB2	64:n8:109:TYR:CE2	2.54	0.43
1:2:230:C:H2'	1:2:231:U:H5''	2.01	0.43
1:2:289:U:H2'	1:2:290:G:O4'	2.18	0.43
1:2:398:G:P	10:S8:47:ARG:HH12	2.42	0.43
1:2:514:G:HO2'	1:2:515:A:H8	1.66	0.43
1:2:647:G:N2	1:2:687:G:H22	2.17	0.43
1:2:788:A:H3'	6:S4:108:ARG:NH2	2.31	0.43
1:2:1149:G:H1'	1:2:1765:A:C4	2.53	0.43
1:2:1184:A:H2	1:2:1454:G:N3	2.16	0.43
1:2:1207:C:N4	1:2:1456:C:H5	2.17	0.43
86:2:2096:OHX:N6	86:2:2110:OHX:N5	2.66	0.43
3:S1:70:LEU:HD13	3:S1:71:ALA:N	2.33	0.43
4:S2:65:GLU:O	4:S2:68:ILE:HB	2.19	0.43
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.49	0.43
8:S6:28:PHE:CZ	8:S6:104:PRO:HG3	2.54	0.43
8:S6:111:LEU:O	8:S6:112:VAL:HB	2.18	0.43
11:S9:29:LYS:HA	32:E0:40:TYR:CE2	2.54	0.43
11:S9:123:HIS:HD1	11:S9:123:HIS:N	2.16	0.43
13:C1:54:ILE:HG23	13:C1:55:ASP:N	2.32	0.43
18:C6:82:ARG:HH12	18:C6:114:ARG:HB3	1.84	0.43
21:C9:61:VAL:HG22	21:C9:76:LEU:HD13	2.00	0.43
28:D6:46:GLU:HB2	28:D6:47:ALA:H	1.47	0.43
32:E0:13:LYS:NZ	32:E0:17:GLN:OE1	2.51	0.43
36:1:494:G:O2'	36:1:495:G:OP2	2.32	0.43
36:1:610:G:C8	41:L4:312:VAL:HG21	2.54	0.43
36:1:1349:G:H5'	41:L4:291:ASN:OD1	2.19	0.43
36:1:1414:G:N7	86:1:4121:OHX:N2	2.66	0.43
36:1:2105:G:C2'	36:1:2106:A:H5'	2.49	0.43
36:1:2236:G:OP1	86:1:4117:OHX:N6	2.52	0.43
36:1:2510:U:O2'	36:1:2511:A:H5''	2.18	0.43
36:1:2902:A:OP1	36:1:3032:A:H1'	2.18	0.43
38:4:87:G:OP2	71:O5:7:TYR:OH	2.32	0.43
40:L3:311:PHE:CE2	40:L3:317:ILE:HG13	2.54	0.43
41:L4:22:LEU:CD1	41:L4:26:PHE:HB2	2.45	0.43
44:L7:150:LYS:HG2	44:L7:151:ARG:CG	2.49	0.43
45:L8:89:GLU:O	45:L8:214:LEU:HD21	2.19	0.43
47:M0:99:ILE:CG2	47:M0:123:HIS:HB2	2.49	0.43
48:M1:60:ARG:H	48:M1:63:GLU:HG3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:84:LEU:HD23	48:M1:84:LEU:HA	1.87	0.43
48:M1:110:ILE:C	48:M1:112:LEU:H	2.25	0.43
49:M3:18:TRP:C	49:M3:20:GLU:N	2.76	0.43
49:M3:139:LEU:HD23	49:M3:139:LEU:HA	1.90	0.43
54:M8:87:VAL:O	54:M8:107:THR:HG23	2.19	0.43
58:N2:67:SER:OG	58:N2:68:THR:N	2.51	0.43
65:N9:52:LYS:HB2	65:N9:52:LYS:HE2	1.79	0.43
70:O4:64:THR:O	70:O4:65:VAL:HG23	2.18	0.43
1:6:281:G:C6	1:6:282:C:C4	3.07	0.43
1:6:613:G:H4'	1:6:614:C:OP1	2.18	0.43
1:6:1078:C:H2'	1:6:1079:U:H6	1.84	0.43
1:6:1227:A:H2	14:c2:43:ARG:HG3	1.84	0.43
1:6:1312:A:N7	19:c7:2:GLY:N	2.66	0.43
1:6:1401:A:OP1	19:c7:60:ARG:NH1	2.52	0.43
1:6:1453:G:N2	17:c5:99:GLY:O	2.48	0.43
1:6:1477:G:OP1	21:c9:43:ASN:HB3	2.18	0.43
3:s1:180:THR:N	3:s1:183:GLN:HB2	2.32	0.43
4:s2:59:HIS:NE2	4:s2:238:SER:HA	2.34	0.43
4:s2:229:LEU:HD23	23:d1:23:ILE:HD11	2.00	0.43
5:s3:12:VAL:O	5:s3:16:VAL:HG23	2.19	0.43
5:s3:76:ARG:HA	5:s3:76:ARG:HD2	1.75	0.43
5:s3:162:GLN:C	5:s3:164:VAL:N	2.76	0.43
6:s4:122:LYS:HD2	6:s4:164:LEU:HD21	2.00	0.43
17:c5:75:PRO:HA	17:c5:93:VAL:HB	2.01	0.43
17:c5:124:THR:O	17:c5:124:THR:OG1	2.31	0.43
18:c6:99:GLU:O	18:c6:100:GLN:C	2.62	0.43
19:c7:77:GLU:HG2	19:c7:80:ARG:HH21	1.84	0.43
25:d3:22:ASN:C	25:d3:24:TRP:N	2.76	0.43
27:d5:103:ARG:HG2	27:d5:104:ALA:N	2.34	0.43
33:e1:86:THR:OG1	33:e1:88:PRO:HD2	2.19	0.43
36:5:3:U:H3	38:8:156:U:H3	1.66	0.43
36:5:48:A:OP2	49:m3:16:LYS:O	2.36	0.43
36:5:658:G:N2	41:l4:93:MET:HB2	2.33	0.43
36:5:1241:U:O2'	36:5:1242:G:O5'	2.34	0.43
36:5:1519:G:H2'	36:5:1520:G:C8	2.53	0.43
36:5:2340:U:OP1	40:l3:236:LYS:HD2	2.19	0.43
36:5:2366:C:H5'	40:l3:259:HIS:CE1	2.53	0.43
36:5:3268:A:OP1	43:l6:46:ARG:NH2	2.52	0.43
38:8:68:G:H2'	38:8:69:U:O4'	2.19	0.43
41:l4:113:VAL:HG12	41:l4:114:ASN:N	2.34	0.43
41:l4:264:SER:OG	41:l4:267:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:l7:103:LEU:HG	44:l7:130:ILE:HD11	1.99	0.43
46:l9:38:LEU:HD13	46:l9:71:VAL:HG22	2.01	0.43
47:m0:45:GLU:O	47:m0:141:LYS:HE3	2.19	0.43
48:m1:155:THR:OG1	48:m1:158:ASP:HB2	2.18	0.43
57:n1:138:SER:C	57:n1:139:ARG:HG3	2.43	0.43
59:n3:18:PRO:HA	59:n3:51:ALA:HA	2.01	0.43
61:n5:139:ILE:HG22	71:o5:33:VAL:HG21	2.00	0.43
64:n8:49:HIS:N	64:n8:50:PRO:HD3	2.33	0.43
65:n9:28:LYS:HD2	65:n9:28:LYS:HA	1.93	0.43
65:n9:51:ALA:O	65:n9:54:LEU:N	2.48	0.43
71:o5:15:GLU:HA	71:o5:18:ALA:HB3	2.00	0.43
1:2:5:U:N3	1:2:20:G:C2	2.87	0.43
1:2:226:A:C2'	1:2:227:U:H5'	2.49	0.43
1:2:720:G:N3	1:2:720:G:H2'	2.34	0.43
1:2:1062:A:OP2	86:2:2163:OHX:N4	2.52	0.43
1:2:1369:U:O4	86:2:2096:OHX:N5	2.51	0.43
1:2:1629:G:H2'	1:2:1630:U:C6	2.53	0.43
1:2:1735:U:H2'	1:2:1736:G:O4'	2.19	0.43
4:S2:41:LEU:HA	4:S2:41:LEU:HD22	1.66	0.43
5:S3:55:THR:CG2	5:S3:90:ARG:HG2	2.49	0.43
6:S4:79:ASP:OD1	6:S4:82:TYR:N	2.52	0.43
6:S4:86:PHE:CD1	6:S4:87:MET:HG2	2.54	0.43
6:S4:180:LEU:HA	6:S4:194:THR:H	1.84	0.43
6:S4:242:LYS:HD2	6:S4:242:LYS:N	2.34	0.43
7:S5:164:PRO:HA	7:S5:167:ARG:HB2	2.01	0.43
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	2.01	0.43
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.83	0.43
16:C4:131:GLY:O	16:C4:133:ARG:N	2.52	0.43
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.36	0.43
34:SR:278:PHE:CZ	34:SR:287:PRO:HG2	2.53	0.43
36:1:565:U:H2'	36:1:566:G:H8	1.84	0.43
36:1:622:A:C5	36:1:623:U:C5	3.07	0.43
36:1:670:C:P	54:M8:147:ARG:NH2	2.91	0.43
36:1:715:A:C8	64:N8:115:LYS:HG3	2.54	0.43
36:1:1226:G:H2'	36:1:1227:C:C6	2.54	0.43
36:1:1344:G:H1	36:1:1360:C:H42	1.67	0.43
36:1:1415:U:H2'	36:1:1416:C:O4'	2.19	0.43
36:1:3167:A:H5'	36:1:3168:A:OP2	2.19	0.43
36:1:3380:U:H2'	36:1:3381:U:C6	2.54	0.43
39:L2:5:ILE:HG22	39:L2:208:ASP:O	2.18	0.43
39:L2:112:ILE:HD12	79:Q3:79:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:123:TYR:CE1	40:L3:124:LYS:HG2	2.54	0.43
41:L4:222:VAL:HA	41:L4:223:PRO:HD2	1.81	0.43
42:L5:217:GLU:HG2	42:L5:218:ARG:N	2.33	0.43
51:M5:190:THR:HB	51:M5:193:ARG:NH2	2.34	0.43
52:M6:68:ARG:H	52:M6:68:ARG:HG2	1.50	0.43
55:M9:99:LEU:O	55:M9:99:LEU:HD22	2.19	0.43
57:N1:116:ARG:O	57:N1:120:LYS:N	2.52	0.43
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.18	0.43
1:6:169:A:OP2	8:s6:137:ARG:NH2	2.52	0.43
1:6:665:U:N3	1:6:668:C:O2	2.52	0.43
1:6:879:G:O2'	15:c3:105:ASN:HB3	2.19	0.43
1:6:1699:G:H2'	1:6:1700:C:H5'	2.01	0.43
86:6:2120:OHX:N4	86:6:2170:OHX:N1	2.66	0.43
3:s1:126:THR:CG2	3:s1:136:ARG:HE	2.31	0.43
4:s2:39:THR:HG23	4:s2:65:GLU:CD	2.44	0.43
4:s2:99:LYS:HA	4:s2:117:THR:HB	1.99	0.43
6:s4:34:GLY:HA3	6:s4:83:PRO:HG2	2.01	0.43
8:s6:136:LYS:HG3	8:s6:173:PRO:HB3	2.01	0.43
10:s8:8:ARG:HH21	10:s8:22:ARG:HE	1.65	0.43
11:s9:96:VAL:O	11:s9:99:LEU:HB3	2.19	0.43
14:c2:66:VAL:HG11	14:c2:71:ILE:HD13	2.01	0.43
17:c5:105:VAL:HG12	17:c5:106:GLU:O	2.19	0.43
17:c5:126:VAL:O	17:c5:127:ARG:CB	2.67	0.43
29:d7:34:ASP:O	29:d7:79:PHE:HA	2.19	0.43
34:sR:182:ASN:ND2	34:sR:184:ASN:OD1	2.48	0.43
34:sR:194:GLY:HA3	34:sR:221:MET:HE1	2.01	0.43
36:5:183:G:H2'	36:5:184:U:O4'	2.19	0.43
36:5:644:G:H2'	36:5:2372:A:N7	2.34	0.43
36:5:703:G:O2'	36:5:787:G:H4'	2.19	0.43
36:5:759:U:H2'	36:5:760:G:H5'	2.01	0.43
36:5:1800:A:H2'	36:5:1801:U:O4'	2.19	0.43
41:l4:93:MET:H	41:l4:93:MET:CE	2.26	0.43
44:l7:158:LYS:O	44:l7:159:GLN:C	2.62	0.43
44:l7:173:LEU:O	44:l7:178:ILE:HB	2.19	0.43
48:m1:37:LEU:HD22	48:m1:37:LEU:HA	1.89	0.43
81:m2:118:UNK:O	81:m2:119:UNK:C	2.67	0.43
55:m9:110:ARG:C	55:m9:112:ALA:N	2.76	0.43
60:n4:9:SER:HA	60:n4:52:THR:HG22	2.01	0.43
64:n8:74:ASN:OD1	64:n8:113:LEU:HB2	2.18	0.43
1:2:142:G:O5'	1:2:142:G:C8	2.71	0.42
1:2:404:G:H2'	1:2:405:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:755:A:H2'	1:2:756:A:C8	2.53	0.42
1:2:904:G:N7	87:2:2178:PCY:N16	2.67	0.42
1:2:1545:A:H2'	1:2:1546:G:C8	2.54	0.42
1:2:1657:U:O4	36:1:2126:A:OP1	2.37	0.42
86:2:2096:OHX:N4	86:2:2110:OHX:N2	2.67	0.42
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.18	0.42
3:S1:97:LEU:HD13	3:S1:98:THR:H	1.84	0.42
3:S1:181:LEU:HA	3:S1:184:LEU:HB3	2.00	0.42
5:S3:162:GLN:OE1	5:S3:165:ASN:ND2	2.29	0.42
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	2.01	0.42
7:S5:97:LEU:HD11	7:S5:194:LEU:HG	2.00	0.42
8:S6:53:SER:O	8:S6:110:ALA:O	2.37	0.42
8:S6:109:LEU:HD23	8:S6:109:LEU:HA	1.79	0.42
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.19	0.42
9:S7:109:VAL:HG22	9:S7:110:GLN:H	1.83	0.42
12:C0:69:THR:O	12:C0:73:VAL:HG23	2.19	0.42
13:C1:138:ASN:C	13:C1:139:VAL:O	2.62	0.42
20:C8:120:ARG:HH21	35:SM:61:ILE:CD1	2.31	0.42
22:D0:96:PRO:O	22:D0:100:VAL:HG23	2.18	0.42
24:D2:72:CYS:HB3	24:D2:129:VAL:HG13	2.00	0.42
24:D2:79:PHE:O	24:D2:125:ILE:HG22	2.19	0.42
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.53	0.42
34:SR:123:ILE:HD13	34:SR:169:ILE:HG21	2.01	0.42
36:1:325:A:H5''	36:1:326:U:OP2	2.19	0.42
36:1:717:C:N4	36:1:718:G:N1	2.67	0.42
36:1:1127:G:H8	36:1:1127:G:O5'	2.02	0.42
36:1:1177:G:N7	69:O3:20:LYS:HD3	2.34	0.42
36:1:1222:G:O2'	36:1:1285:G:N1	2.32	0.42
36:1:1478:C:H2'	36:1:1479:U:C6	2.53	0.42
36:1:2427:U:H2'	36:1:2428:U:C6	2.53	0.42
36:1:2601:A:H2'	36:1:2602:G:C8	2.54	0.42
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.19	0.42
37:3:100:C:OP2	56:N0:52:LYS:HE3	2.18	0.42
43:L6:60:ASP:O	43:L6:61:ASN:HB2	2.18	0.42
44:L7:197:GLN:OE1	44:L7:197:GLN:N	2.42	0.42
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.53	0.42
46:L9:93:VAL:HG22	76:Q0:82:LEU:HB3	2.00	0.42
55:M9:105:LEU:CD1	55:M9:135:LYS:HG3	2.49	0.42
60:N4:27:LYS:HD3	60:N4:29:PHE:CZ	2.54	0.42
79:Q3:2:ALA:O	79:Q3:3:LYS:C	2.62	0.42
1:6:43:A:C2	1:6:378:A:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:57:G:OP1	26:d4:112:LYS:NZ	2.43	0.42
1:6:75:U:O2	1:6:76:A:C8	2.72	0.42
1:6:221:A:C2'	1:6:222:A:H5'	2.49	0.42
1:6:225:A:N6	1:6:226:A:H62	2.17	0.42
1:6:246:G:C6	1:6:247:A:C6	3.07	0.42
1:6:1214:U:H2'	1:6:1215:C:O4'	2.18	0.42
1:6:1526:A:N1	1:6:1608:U:O2'	2.49	0.42
4:s2:149:GLY:H	23:d1:4:ASP:HB2	1.84	0.42
4:s2:166:THR:HG23	4:s2:201:ASN:HB3	2.00	0.42
5:s3:76:ARG:HH11	5:s3:76:ARG:C	2.27	0.42
5:s3:108:LYS:O	5:s3:113:LEU:HB2	2.19	0.42
7:s5:24:VAL:C	7:s5:25:LEU:HD13	2.44	0.42
8:s6:68:LEU:HD13	8:s6:68:LEU:HA	1.92	0.42
10:s8:88:ASN:O	10:s8:91:VAL:HB	2.19	0.42
11:s9:171:ARG:HE	11:s9:171:ARG:HA	1.84	0.42
15:c3:23:PRO:HD2	15:c3:26:PHE:HB2	2.00	0.42
28:d6:43:ASN:OD1	28:d6:43:ASN:N	2.52	0.42
33:e1:144:CYS:HB3	33:e1:147:VAL:HG12	2.01	0.42
36:5:112:U:O2'	36:5:113:C:P	2.76	0.42
36:5:128:G:O6	86:5:3933:OHX:N4	2.52	0.42
36:5:293:C:H2'	36:5:294:U:O4'	2.18	0.42
36:5:495:G:H2'	36:5:496:C:O4'	2.19	0.42
36:5:1440:G:H2'	36:5:1441:G:H8	1.83	0.42
36:5:2111:G:H4'	36:5:2112:U:OP2	2.19	0.42
36:5:2140:U:O2'	36:5:2978:U:H5'	2.19	0.42
36:5:3045:G:O3'	40:l3:275:ARG:NH1	2.51	0.42
36:5:3264:G:N2	36:5:3265:C:H1'	2.33	0.42
37:7:49:G:H4'	37:7:50:U:O5'	2.19	0.42
43:l6:54:TYR:HA	43:l6:65:ILE:CD1	2.49	0.42
49:m3:44:ALA:O	49:m3:46:ILE:N	2.52	0.42
51:m5:159:ARG:HB2	51:m5:164:LEU:HB2	2.01	0.42
52:m6:54:TYR:CD2	52:m6:58:LEU:HD22	2.54	0.42
52:m6:136:THR:HG22	52:m6:137:THR:N	2.34	0.42
57:n1:73:GLY:HA2	57:n1:89:LEU:O	2.19	0.42
59:n3:66:LYS:HG3	59:n3:69:LEU:HD22	2.01	0.42
61:n5:40:LEU:HB3	61:n5:41:ALA:H	1.63	0.42
62:n6:39:LEU:HD12	62:n6:43:TYR:HE2	1.83	0.42
68:o2:78:ASN:H	68:o2:81:ASP:HB2	1.84	0.42
1:2:142:G:N2	1:2:173:A:C2	2.84	0.42
1:2:616:G:C2	1:2:622:A:N7	2.87	0.42
1:2:632:U:OP1	13:C1:102:LYS:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1079:U:H2'	1:2:1080:U:O4'	2.19	0.42
1:2:1295:G:C6	1:2:1296:A:N7	2.87	0.42
1:2:1586:A:H2'	1:2:1587:A:O4'	2.19	0.42
3:S1:29:TRP:HE1	3:S1:47:LEU:HG	1.83	0.42
4:S2:67:GLN:O	4:S2:71:THR:HG23	2.20	0.42
4:S2:114:GLY:HA3	4:S2:132:ALA:HB2	2.01	0.42
6:S4:143:ASP:OD2	6:S4:145:ARG:HD2	2.19	0.42
7:S5:107:LYS:O	7:S5:111:VAL:HG23	2.19	0.42
7:S5:175:LEU:HD22	7:S5:198:LEU:HD23	2.00	0.42
15:C3:52:VAL:HG22	15:C3:55:ARG:NH2	2.34	0.42
15:C3:113:PHE:HA	15:C3:116:ILE:HD12	2.02	0.42
15:C3:118:ILE:O	15:C3:122:ILE:HG13	2.19	0.42
17:C5:78:THR:OG1	17:C5:80:MET:HB2	2.19	0.42
19:C7:85:VAL:HG12	19:C7:87:GLU:H	1.84	0.42
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.33	0.42
34:SR:173:GLY:O	34:SR:199:ILE:HG13	2.18	0.42
36:1:119:U:C2	45:L8:138:HIS:CE1	3.07	0.42
36:1:150:A:OP1	51:M5:56:LYS:NZ	2.30	0.42
36:1:1310:G:O6	86:1:4025:OHX:N1	2.52	0.42
36:1:1462:A:C6	36:1:1463:U:C4	3.07	0.42
36:1:1769:G:N7	86:1:4168:OHX:N2	2.67	0.42
36:1:2407:C:H2'	36:1:2408:U:C6	2.53	0.42
86:1:3973:OHX:N5	86:1:4154:OHX:N6	2.67	0.42
86:1:4098:OHX:N2	40:L3:30:LYS:O	2.51	0.42
39:L2:44:ILE:HG23	39:L2:87:PHE:CD1	2.55	0.42
41:L4:296:GLN:HA	41:L4:299:ILE:HG12	2.01	0.42
44:L7:24:GLU:O	44:L7:26:VAL:N	2.51	0.42
44:L7:93:ASN:OD1	44:L7:93:ASN:N	2.51	0.42
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.54	0.42
78:Q2:9:LYS:HE2	78:Q2:22:GLN:CD	2.44	0.42
1:6:9:U:O4	86:6:2145:OHX:N3	2.52	0.42
1:6:40:A:OP1	11:s9:3:ARG:NH1	2.52	0.42
1:6:301:A:H2'	1:6:302:U:O4'	2.18	0.42
1:6:420:A:H2'	1:6:421:A:O4'	2.19	0.42
1:6:752:A:O2'	1:6:753:A:H5'	2.19	0.42
1:6:1078:C:H2'	1:6:1079:U:C6	2.53	0.42
1:6:1146:G:O2'	4:s2:89:GLN:HG2	2.19	0.42
3:s1:136:ARG:CZ	3:s1:218:LEU:HD11	2.49	0.42
6:s4:92:LEU:HB2	6:s4:95:THR:CG2	2.49	0.42
7:s5:167:ARG:HB3	7:s5:167:ARG:HH11	1.84	0.42
7:s5:225:ARG:NH2	30:d8:58:GLU:HB2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:68:ALA:O	9:s7:72:LYS:HG3	2.19	0.42
10:s8:26:LYS:O	10:s8:28:GLU:N	2.52	0.42
11:s9:28:LEU:HB3	80:e0:44:PHE:HZ	1.84	0.42
11:s9:102:GLU:OE2	11:s9:102:GLU:N	2.41	0.42
17:c5:81:ARG:HD2	17:c5:97:TYR:O	2.18	0.42
18:c6:9:THR:HG21	18:c6:87:LYS:O	2.19	0.42
21:c9:128:GLY:O	21:c9:131:ASP:N	2.52	0.42
25:d3:33:LEU:HD23	25:d3:33:LEU:HA	1.62	0.42
27:d5:83:LEU:O	27:d5:89:ILE:HG12	2.20	0.42
30:d8:49:ARG:HG2	30:d8:52:ASP:OD2	2.19	0.42
31:d9:15:GLY:O	31:d9:17:GLY:N	2.52	0.42
33:e1:98:VAL:HG12	33:e1:99:LYS:N	2.34	0.42
34:sR:201:THR:HG21	34:sR:242:SER:HA	2.01	0.42
36:5:370:U:H4'	36:5:404:G:H5'	2.01	0.42
36:5:498:A:H2'	36:5:499:G:C8	2.55	0.42
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.52	0.42
36:5:1725:C:H5''	79:q3:36:ARG:NH2	2.30	0.42
36:5:1771:C:H2'	36:5:1772:U:O4'	2.19	0.42
36:5:2115:G:O2'	55:m9:82:LYS:HE3	2.19	0.42
36:5:2152:A:H1'	36:5:2243:A:C2	2.54	0.42
86:5:4035:OHX:N6	86:5:4237:OHX:N2	2.67	0.42
86:5:4035:OHX:N4	86:5:4237:OHX:N1	2.67	0.42
86:5:4214:OHX:N4	86:5:4224:OHX:N3	2.67	0.42
46:l9:7:GLU:HA	46:l9:68:LEU:HD11	2.01	0.42
49:m3:61:PRO:HD3	49:m3:70:ARG:HH21	1.84	0.42
50:m4:21:VAL:HB	50:m4:63:VAL:HG13	2.01	0.42
51:m5:114:ARG:HH11	51:m5:114:ARG:HG3	1.84	0.42
52:m6:54:TYR:CE2	52:m6:58:LEU:HD22	2.55	0.42
52:m6:182:ASN:O	52:m6:184:THR:N	2.52	0.42
53:m7:84:PRO:O	53:m7:88:VAL:HG23	2.20	0.42
54:m8:116:LYS:C	54:m8:118:GLY:H	2.26	0.42
56:n0:103:VAL:O	56:n0:106:LEU:HB3	2.19	0.42
57:n1:106:LEU:HA	57:n1:106:LEU:HD23	1.81	0.42
63:n7:20:GLY:HA2	70:o4:89:ILE:HD13	2.01	0.42
64:n8:6:THR:CG2	64:n8:8:THR:HG23	2.39	0.42
70:o4:65:VAL:HG13	70:o4:69:HIS:HB2	2.01	0.42
78:q2:77:CYS:SG	78:q2:79:THR:HG22	2.59	0.42
82:p0:16:ARG:NH1	82:p0:20:GLU:OE2	2.44	0.42
83:p1:41:UNK:C	83:p1:43:UNK:H	2.32	0.42
1:2:109:G:H1	1:2:305:C:N4	2.17	0.42
1:2:260:U:H3'	1:2:261:U:H5''	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:932:U:H4'	1:2:933:A:O4'	2.19	0.42
1:2:1076:A:O5'	28:D6:13:LYS:HB3	2.19	0.42
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.84	0.42
3:S1:182:ALA:O	3:S1:186:SER:OG	2.33	0.42
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.34	0.42
5:S3:134:CYS:N	5:S3:157:LEU:HD11	2.34	0.42
8:S6:56:ASN:ND2	8:S6:60:GLY:O	2.51	0.42
9:S7:68:ALA:O	9:S7:72:LYS:HG3	2.19	0.42
11:S9:34:PHE:CE1	11:S9:105:LEU:HB3	2.54	0.42
15:C3:21:ASN:OD1	15:C3:21:ASN:N	2.53	0.42
16:C4:22:SER:OG	16:C4:23:PHE:N	2.50	0.42
21:C9:30:VAL:HA	21:C9:31:PRO:HD2	1.88	0.42
26:D4:84:LYS:HG3	26:D4:85:PHE:N	2.33	0.42
27:D5:74:SER:HA	27:D5:77:ARG:NH2	2.34	0.42
28:D6:85:ARG:HE	28:D6:85:ARG:CA	2.32	0.42
33:E1:127:GLY:C	33:E1:129:GLY:H	2.23	0.42
36:1:250:U:C5	36:1:251:G:N7	2.87	0.42
36:1:371:G:H4'	36:1:396:A:N1	2.34	0.42
36:1:532:A:H2	36:1:560:G:H22	1.66	0.42
36:1:911:C:H42	39:L2:3:ARG:HD3	1.84	0.42
36:1:1035:G:C6	36:1:1036:A:C6	3.07	0.42
36:1:2223:A:C6	36:1:2224:A:C6	3.08	0.42
36:1:2973:G:N7	86:1:4097:OHX:N2	2.67	0.42
36:1:3302:U:H3	36:1:3312:U:H3	1.65	0.42
38:4:24:G:N2	38:4:25:G:H1'	2.34	0.42
41:L4:11:LEU:HD13	41:L4:159:ILE:HD11	2.02	0.42
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.18	0.42
43:L6:8:LYS:HB2	43:L6:8:LYS:HE2	1.72	0.42
46:L9:38:LEU:HD13	46:L9:71:VAL:HG13	2.00	0.42
47:M0:145:LYS:HD3	47:M0:167:LEU:HD21	2.01	0.42
49:M3:193:ALA:O	49:M3:194:GLU:HG2	2.19	0.42
52:M6:106:GLU:H	52:M6:106:GLU:HG2	1.58	0.42
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.25	0.42
59:N3:78:VAL:H	59:N3:78:VAL:HG23	1.61	0.42
61:N5:103:TYR:O	61:N5:138:ARG:NH1	2.52	0.42
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.01	0.42
66:O0:78:GLY:CA	66:O0:87:VAL:HG13	2.48	0.42
1:6:322:G:O4'	1:6:323:A:H8	2.01	0.42
1:6:546:U:H2'	1:6:547:U:H6	1.83	0.42
1:6:1529:C:H2'	1:6:1530:C:C6	2.54	0.42
1:6:1547:A:H5'	20:c8:112:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1620:C:H2'	1:6:1621:U:H6	1.85	0.42
2:s0:22:THR:HG21	2:s0:173:ILE:HD11	2.01	0.42
4:s2:225:LEU:CD2	4:s2:230:TRP:HD1	2.31	0.42
5:s3:118:ALA:O	5:s3:122:VAL:HG23	2.19	0.42
5:s3:162:GLN:N	5:s3:163:PRO:HD2	2.34	0.42
7:s5:37:GLN:HG2	18:c6:53:LEU:HD13	2.00	0.42
9:s7:31:SER:O	9:s7:33:GLU:N	2.51	0.42
10:s8:84:HIS:CD2	10:s8:90:LEU:HD13	2.54	0.42
13:c1:46:LYS:HD2	13:c1:46:LYS:HA	1.78	0.42
15:c3:46:THR:HG23	15:c3:49:GLN:NE2	2.34	0.42
17:c5:7:ALA:C	17:c5:9:LYS:N	2.76	0.42
17:c5:119:PHE:HA	35:sM:57:ASN:ND2	2.35	0.42
26:d4:45:ALA:HB1	26:d4:52:LYS:H	1.85	0.42
28:d6:12:LYS:HB3	28:d6:13:LYS:H	1.63	0.42
28:d6:25:ASN:HB3	28:d6:77:CYS:SG	2.59	0.42
29:d7:33:LEU:HD23	29:d7:81:ARG:HA	2.01	0.42
30:d8:61:ARG:HB3	30:d8:61:ARG:CZ	2.50	0.42
36:5:587:U:C2'	36:5:588:G:H5'	2.49	0.42
36:5:655:C:H2'	36:5:656:A:C8	2.54	0.42
36:5:958:C:OP1	36:5:2799:A:H3'	2.19	0.42
36:5:1191:U:C2	52:m6:48:PHE:CE1	3.07	0.42
36:5:1317:A:OP1	86:5:4097:OHX:N1	2.52	0.42
36:5:1597:C:H5'	36:5:1696:A:H1'	2.01	0.42
36:5:1841:A:N3	75:o9:45:ARG:NH2	2.68	0.42
36:5:2257:C:H2'	36:5:2258:U:O4'	2.19	0.42
36:5:2746:A:H2'	36:5:2747:A:O4'	2.20	0.42
36:5:2810:C:OP1	86:5:4079:OHX:N3	2.52	0.42
36:5:2899:C:C5	46:l9:171:ASP:HA	2.54	0.42
36:5:3033:A:H2'	36:5:3034:C:H6	1.83	0.42
36:5:3111:U:OP1	46:l9:88:TYR:OH	2.37	0.42
36:5:3299:A:N6	36:5:3315:G:H1	2.12	0.42
86:5:4023:OHX:N4	86:5:4217:OHX:N3	2.68	0.42
38:8:59:A:O2'	61:n5:61:LYS:NZ	2.39	0.42
38:8:157:U:C5	38:8:158:U:H5	2.37	0.42
42:l5:40:HIS:HE1	42:l5:42:ALA:HB3	1.83	0.42
42:l5:76:ALA:HB3	42:l5:109:THR:HG22	2.02	0.42
45:l8:78:PHE:CD2	45:l8:179:ILE:HD13	2.53	0.42
52:m6:184:THR:OG1	52:m6:185:ALA:N	2.52	0.42
55:m9:143:ILE:HG22	55:m9:144:GLN:N	2.34	0.42
56:n0:141:LYS:HA	56:n0:144:LEU:HD12	2.00	0.42
59:n3:89:ASP:N	59:n3:89:ASP:OD1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:n8:27:LYS:O	64:n8:28:HIS:CB	2.67	0.42
70:o4:99:LYS:O	70:o4:103:LYS:HG2	2.19	0.42
72:o6:35:ASN:OD1	72:o6:35:ASN:N	2.53	0.42
78:q2:71:ARG:NH1	78:q2:80:ARG:HD3	2.34	0.42
79:q3:12:GLY:O	79:q3:13:LYS:C	2.62	0.42
1:2:205:U:O4	86:2:2068:OHX:N3	2.52	0.42
1:2:380:U:C5	11:S9:5:PRO:HG3	2.55	0.42
1:2:641:G:O5'	1:2:641:G:H8	2.03	0.42
1:2:1642:G:O3'	77:Q1:9:ARG:NH2	2.52	0.42
86:2:2097:OHX:N1	86:2:2117:OHX:N2	2.67	0.42
2:S0:109:ASN:OD1	2:S0:111:ILE:HB	2.19	0.42
3:S1:77:GLU:C	3:S1:79:HIS:N	2.77	0.42
4:S2:61:LEU:HA	4:S2:62:PRO:HD2	1.77	0.42
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.19	0.42
11:S9:163:PRO:HB2	11:S9:164:PHE:H	1.72	0.42
17:C5:15:HIS:NE2	17:C5:17:TYR:HA	2.34	0.42
26:D4:124:ARG:HB3	26:D4:124:ARG:NH1	2.35	0.42
28:D6:30:ILE:HG13	28:D6:31:PRO:HD2	2.00	0.42
28:D6:66:LYS:HD3	28:D6:66:LYS:H	1.84	0.42
31:D9:5:ASN:CG	31:D9:7:TRP:NE1	2.78	0.42
36:1:532:A:O2'	36:1:533:A:H5'	2.18	0.42
36:1:913:A:H2	36:1:2134:G:N3	2.18	0.42
36:1:2118:C:H2'	36:1:2119:A:O4'	2.19	0.42
36:1:2534:G:N2	36:1:2545:C:N3	2.59	0.42
36:1:2736:A:H1'	57:N1:90:ASN:ND2	2.35	0.42
36:1:2954:U:O5'	36:1:2954:U:C6	2.72	0.42
36:1:3195:U:O2'	36:1:3196:U:H5'	2.19	0.42
36:1:3229:G:P	50:M4:137:LYS:HZ1	2.41	0.42
86:1:3957:OHX:N1	86:1:4139:OHX:N3	2.68	0.42
86:1:3973:OHX:N5	86:1:4154:OHX:N2	2.66	0.42
86:1:4054:OHX:N2	86:1:4162:OHX:N1	2.68	0.42
44:L7:163:LEU:HA	44:L7:163:LEU:HD23	1.65	0.42
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	2.01	0.42
47:M0:36:LEU:HD13	47:M0:87:LEU:HD13	2.01	0.42
50:M4:92:GLU:HA	50:M4:95:ALA:HB3	2.02	0.42
52:M6:65:ASN:O	52:M6:68:ARG:HG2	2.20	0.42
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.85	0.42
54:M8:41:ASP:C	54:M8:41:ASP:OD1	2.62	0.42
54:M8:65:SER:HA	54:M8:93:ILE:HD13	2.01	0.42
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.54	0.42
56:N0:167:ARG:HG3	56:N0:168:PRO:CD	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:62:SER:C	62:N6:64:LYS:H	2.28	0.42
64:N8:132:LYS:NZ	64:N8:136:GLU:OE2	2.40	0.42
68:O2:74:PHE:CD2	68:O2:85:LEU:HD21	2.55	0.42
69:O3:48:ARG:NH1	69:O3:48:ARG:HG2	2.34	0.42
1:6:577:G:N1	86:6:2158:OHX:N4	2.67	0.42
1:6:1280:C:H5'	31:d9:44:ARG:HH22	1.83	0.42
1:6:1390:U:O2'	1:6:1391:A:C8	2.73	0.42
2:s0:86:VAL:HG12	2:s0:174:TRP:CE2	2.54	0.42
3:s1:43:VAL:HG11	3:s1:68:VAL:HG21	2.00	0.42
4:s2:89:GLN:HA	4:s2:94:GLN:HA	2.01	0.42
4:s2:90:THR:C	4:s2:92:ALA:N	2.78	0.42
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.85	0.42
9:s7:117:THR:O	9:s7:121:VAL:HG23	2.18	0.42
13:c1:54:ILE:HD12	13:c1:54:ILE:HG23	1.80	0.42
15:c3:5:HIS:CE1	15:c3:121:ARG:HG3	2.54	0.42
19:c7:66:VAL:HB	19:c7:69:ILE:HG13	2.01	0.42
19:c7:77:GLU:CG	19:c7:80:ARG:HH21	2.32	0.42
30:d8:35:ASP:OD1	30:d8:36:THR:N	2.52	0.42
31:d9:21:CYS:HA	31:d9:30:LEU:HD21	2.01	0.42
36:5:1027:A:C8	36:5:1029:G:C2	3.07	0.42
36:5:2147:A:H2'	36:5:2148:U:O4'	2.19	0.42
36:5:2168:A:C6	36:5:2170:U:H1'	2.54	0.42
36:5:2409:G:H4'	36:5:2410:U:OP2	2.19	0.42
36:5:3244:A:N1	40:13:97:ARG:NH1	2.68	0.42
36:5:3386:G:H5'	67:o1:10:ARG:NE	2.34	0.42
37:7:33:U:H2'	37:7:34:C:O4'	2.20	0.42
38:8:15:G:C6	38:8:16:G:N1	2.88	0.42
43:l6:85:ILE:HG23	69:o3:107:ILE:HG21	2.01	0.42
45:l8:214:LEU:HA	45:l8:214:LEU:HD12	1.71	0.42
47:m0:153:ARG:HG2	47:m0:156:ARG:HH21	1.85	0.42
51:m5:198:SER:C	51:m5:199:LEU:HD23	2.45	0.42
63:n7:136:PHE:CZ	70:o4:89:ILE:HG12	2.54	0.42
65:n9:59:LYS:HE3	65:n9:59:LYS:HB2	1.83	0.42
68:o2:21:HIS:CE1	68:o2:24:ARG:HD2	2.54	0.42
72:o6:26:ILE:H	72:o6:26:ILE:HG13	1.51	0.42
75:o9:50:ASN:O	75:o9:51:ILE:HB	2.20	0.42
78:q2:16:THR:OG1	78:q2:17:CYS:N	2.52	0.42
1:2:472:U:H5''	11:S9:11:THR:HG23	2.01	0.42
1:2:545:A:OP1	32:E0:31:LYS:HG3	2.19	0.42
1:2:1002:G:N1	1:2:1761:U:OP1	2.46	0.42
1:2:1340:U:C2	1:2:1378:U:H4'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1389:C:OP1	19:C7:48:ASN:ND2	2.51	0.42
1:2:1483:A:C6	1:2:1484:G:C6	3.08	0.42
1:2:1615:C:N4	7:S5:78:ALA:O	2.49	0.42
1:2:1675:C:H1'	10:S8:32:GLN:HE22	1.84	0.42
1:2:1796:C:N1	28:D6:5:ARG:HG2	2.34	0.42
87:2:2178:PCY:H17	87:2:2178:PCY:H24	1.76	0.42
2:S0:114:SER:O	2:S0:116:LYS:HG2	2.18	0.42
3:S1:104:ASP:OD2	3:S1:214:LYS:NZ	2.43	0.42
3:S1:116:LYS:HE2	3:S1:117:TRP:HZ3	1.84	0.42
4:S2:148:LEU:HD22	23:D1:4:ASP:OD2	2.20	0.42
5:S3:105:MET:HB3	5:S3:184:ILE:HD13	2.02	0.42
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.20	0.42
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	2.00	0.42
13:C1:57:LYS:HB2	13:C1:110:HIS:NE2	2.35	0.42
16:C4:41:ARG:O	16:C4:42:VAL:HG22	2.19	0.42
17:C5:28:MET:HE2	17:C5:28:MET:HB3	1.88	0.42
20:C8:109:LEU:HA	20:C8:109:LEU:HD12	1.79	0.42
28:D6:25:ASN:HB3	28:D6:77:CYS:SG	2.59	0.42
34:SR:159:ASN:HD22	34:SR:159:ASN:HA	1.69	0.42
36:1:639:G:P	68:O2:40:SER:HB2	2.59	0.42
36:1:641:C:OP1	64:N8:21:ARG:HB3	2.18	0.42
36:1:1621:A:H2'	36:1:1622:U:C6	2.54	0.42
36:1:3128:G:OP2	86:1:4166:OHX:N2	2.53	0.42
36:1:3153:U:H3	36:1:3293:U:H3	1.67	0.42
36:1:3182:G:C6	36:1:3183:A:C5	3.08	0.42
86:1:4054:OHX:N2	86:1:4162:OHX:N5	2.67	0.42
41:L4:184:SER:HB2	41:L4:202:ARG:HG2	2.02	0.42
45:L8:200:LEU:HD23	45:L8:200:LEU:HA	1.90	0.42
46:L9:67:ALA:HA	46:L9:70:THR:HG23	2.02	0.42
50:M4:38:ILE:HG21	50:M4:38:ILE:HD13	1.70	0.42
51:M5:84:PRO:HA	51:M5:87:GLN:OE1	2.19	0.42
63:N7:10:VAL:HB	63:N7:83:THR:HG21	2.01	0.42
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.85	0.42
69:O3:75:HIS:HB3	69:O3:80:VAL:HB	2.02	0.42
70:O4:60:ARG:HG2	70:O4:60:ARG:O	2.20	0.42
73:O7:52:LYS:HA	73:O7:55:ARG:HD2	2.00	0.42
75:O9:47:THR:O	75:O9:47:THR:HG22	2.20	0.42
1:6:119:A:H1'	1:6:397:A:C5	2.55	0.42
1:6:198:A:C2'	1:6:199:G:H5'	2.49	0.42
86:6:2125:OHX:N6	86:6:2149:OHX:N3	2.68	0.42
3:s1:70:LEU:HD22	3:s1:74:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:88:VAL:HA	3:s1:98:THR:HG22	2.00	0.42
5:s3:215:GLU:HA	5:s3:216:PRO:HD2	1.87	0.42
11:s9:22:SER:OG	11:s9:23:ARG:N	2.51	0.42
11:s9:108:ARG:HH21	11:s9:145:SER:HB3	1.85	0.42
21:c9:127:ASN:O	21:c9:130:ARG:HB3	2.19	0.42
22:d0:63:LEU:HB2	22:d0:84:MET:HB3	2.01	0.42
36:5:958:C:H5'	36:5:2799:A:H2'	2.01	0.42
36:5:980:A:H2'	36:5:981:U:N1	2.35	0.42
36:5:1449:A:C2	36:5:2356:A:C4	3.08	0.42
36:5:3223:A:C5	36:5:3263:G:C6	3.07	0.42
36:5:3237:U:C2	36:5:3251:U:C2	3.08	0.42
86:5:4002:OHX:N5	44:l7:217:PRO:HA	2.34	0.42
38:8:113:U:O2	38:8:113:U:H3'	2.20	0.42
39:l2:31:THR:N	39:l2:123:ARG:HH21	2.17	0.42
39:l2:53:GLY:O	39:l2:192:LYS:NZ	2.53	0.42
41:l4:209:TYR:CE2	41:l4:229:ASN:HB2	2.54	0.42
43:l6:38:THR:HG23	43:l6:90:LYS:HE2	2.01	0.42
45:l8:186:LEU:O	45:l8:189:LEU:HB3	2.20	0.42
47:m0:63:GLU:HG2	47:m0:63:GLU:H	1.49	0.42
49:m3:107:GLU:OE1	72:o6:18:THR:HG23	2.18	0.42
49:m3:129:ASN:CG	49:m3:130:GLY:H	2.26	0.42
50:m4:68:LEU:HD13	50:m4:93:LYS:HB2	2.01	0.42
52:m6:10:ASP:CG	52:m6:37:ARG:HH21	2.26	0.42
54:m8:173:GLU:HA	64:n8:51:GLY:C	2.45	0.42
55:m9:139:VAL:O	55:m9:140:GLU:C	2.62	0.42
57:n1:31:LEU:HA	57:n1:31:LEU:HD23	1.78	0.42
59:n3:53:SER:N	59:n3:56:ASP:OD2	2.49	0.42
59:n3:65:GLY:O	59:n3:66:LYS:C	2.62	0.42
68:o2:24:ARG:HD3	68:o2:25:TYR:CZ	2.55	0.42
82:p0:25:LEU:HB3	82:p0:191:TYR:HD2	1.84	0.42
1:2:310:C:H4'	25:D3:33:LEU:CD2	2.49	0.42
1:2:789:A:H2	6:S4:248:ILE:HG21	1.85	0.42
1:2:1086:A:H5''	1:2:1087:A:OP2	2.19	0.42
1:2:1105:C:H2'	1:2:1106:U:C6	2.55	0.42
1:2:1281:G:H2'	1:2:1282:U:H6	1.85	0.42
1:2:1526:A:N1	1:2:1608:U:O2'	2.47	0.42
2:S0:177:LEU:HA	2:S0:177:LEU:HD23	1.79	0.42
3:S1:34:ALA:HB2	3:S1:43:VAL:HG22	2.02	0.42
4:S2:174:ARG:HH12	11:S9:94:ASP:HB3	1.85	0.42
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.54	0.42
8:S6:6:SER:CB	8:S6:112:VAL:HG22	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:55:ALA:O	11:S9:59:LEU:HG	2.19	0.42
12:C0:3:MET:SD	12:C0:8:ARG:NH1	2.93	0.42
12:C0:15:LEU:HG	12:C0:68:LEU:HD22	2.02	0.42
15:C3:91:LEU:HD23	15:C3:91:LEU:HA	1.87	0.42
20:C8:54:LEU:H	20:C8:54:LEU:HD22	1.84	0.42
26:D4:127:LYS:HG3	26:D4:128:LYS:N	2.34	0.42
33:E1:144:CYS:HB3	33:E1:147:VAL:HG22	2.01	0.42
34:SR:276:PRO:HG3	34:SR:311:ARG:HD3	2.02	0.42
36:1:1681:U:H2'	36:1:1682:U:O4'	2.20	0.42
36:1:1844:C:O2	73:O7:9:GLY:HA2	2.20	0.42
36:1:2213:A:H2'	36:1:2214:A:C8	2.55	0.42
36:1:2217:U:H2'	36:1:2218:G:H8	1.84	0.42
36:1:2553:U:H4'	36:1:2554:A:OP2	2.20	0.42
36:1:2652:U:C5	36:1:2653:C:C5	3.07	0.42
36:1:2890:A:N1	36:1:2913:C:N3	2.68	0.42
37:3:46:A:C6	37:3:47:C:C4	3.08	0.42
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.54	0.42
46:L9:41:ILE:O	46:L9:42:ASP:HB2	2.18	0.42
47:M0:133:GLN:HG3	47:M0:134:ILE:N	2.33	0.42
47:M0:210:ILE:HG23	47:M0:217:PHE:CE2	2.55	0.42
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.88	0.42
48:M1:23:VAL:HG11	48:M1:29:ARG:HG2	2.00	0.42
48:M1:117:ASP:O	48:M1:120:ILE:HG22	2.18	0.42
51:M5:135:VAL:HG13	51:M5:142:ILE:HG12	2.01	0.42
52:M6:127:LEU:HD22	56:N0:156:VAL:HG12	2.00	0.42
53:M7:169:THR:HG21	69:O3:60:ARG:HH11	1.84	0.42
1:6:151:G:H2'	1:6:152:U:C6	2.54	0.42
1:6:269:G:H1	1:6:286:C:N4	2.16	0.42
1:6:587:C:H2'	1:6:588:U:O4'	2.20	0.42
1:6:594:A:OP2	11:s9:37:LYS:HE2	2.19	0.42
1:6:836:U:C2	1:6:837:G:C8	3.08	0.42
1:6:1390:U:O2'	1:6:1391:A:N7	2.53	0.42
2:s0:33:GLN:C	2:s0:35:PRO:HD2	2.44	0.42
3:s1:129:THR:OG1	3:s1:131:ASP:O	2.34	0.42
3:s1:183:GLN:OE1	3:s1:183:GLN:N	2.52	0.42
4:s2:44:LEU:HD23	4:s2:44:LEU:HA	1.82	0.42
4:s2:186:LYS:HD3	4:s2:186:LYS:HA	1.66	0.42
8:s6:7:TYR:OH	8:s6:116:LYS:HD3	2.19	0.42
8:s6:63:MET:HA	8:s6:98:ARG:O	2.20	0.42
8:s6:122:GLU:C	8:s6:124:LEU:H	2.28	0.42
9:s7:133:THR:HG22	9:s7:157:LYS:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:116:LEU:HD12	11:s9:116:LEU:HA	1.82	0.42
18:c6:4:VAL:HG13	18:c6:5:PRO:HD2	2.02	0.42
18:c6:52:LEU:HB2	18:c6:53:LEU:HD23	2.01	0.42
20:c8:75:ASN:O	20:c8:78:HIS:HB2	2.19	0.42
28:d6:46:GLU:HB2	28:d6:47:ALA:H	1.54	0.42
28:d6:51:ARG:NH2	30:d8:60:GLU:OE1	2.53	0.42
34:sR:111:MET:N	34:sR:125:GLY:O	2.42	0.42
35:sM:68:ARG:HE	35:sM:68:ARG:HB3	1.56	0.42
36:5:127:G:H2'	36:5:128:G:C8	2.54	0.42
36:5:213:A:H61	36:5:227:G:C2'	2.33	0.42
36:5:370:U:O4	36:5:371:G:C6	2.72	0.42
36:5:541:U:H2'	36:5:542:G:C8	2.55	0.42
36:5:707:U:H1'	36:5:754:G:O2'	2.20	0.42
36:5:815:G:C6	36:5:906:A:C4	3.08	0.42
36:5:992:A:O2'	36:5:993:G:H5'	2.18	0.42
36:5:1000:C:C2	36:5:1045:C:N4	2.87	0.42
36:5:2568:C:N4	36:5:2574:G:C6	2.86	0.42
36:5:2697:A:H2'	36:5:2698:G:H8	1.83	0.42
86:5:4093:OHX:N5	86:5:4202:OHX:N1	2.68	0.42
38:8:82:U:H1'	38:8:87:G:H4'	2.00	0.42
39:12:147:ARG:HH12	39:12:155:LYS:HD3	1.84	0.42
40:l3:199:PHE:C	40:l3:201:LYS:H	2.28	0.42
41:l4:152:VAL:CG2	41:l4:172:VAL:HG21	2.50	0.42
41:l4:299:ILE:H	41:l4:299:ILE:HG12	1.23	0.42
45:l8:29:SER:C	45:l8:31:PRO:HD3	2.44	0.42
46:l9:8:GLN:NE2	46:l9:69:ARG:HG2	2.34	0.42
46:l9:88:TYR:CZ	46:l9:184:LYS:HD3	2.54	0.42
47:m0:74:LYS:HB2	47:m0:74:LYS:NZ	2.33	0.42
55:m9:99:LEU:O	55:m9:99:LEU:HD22	2.20	0.42
65:n9:8:THR:OG1	65:n9:9:ALA:N	2.52	0.42
68:o2:32:TRP:CE2	68:o2:53:PRO:HD2	2.54	0.42
77:q1:7:LYS:HE2	77:q1:11:ARG:NH1	2.34	0.42
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.52	0.42
1:2:163:G:H5'	8:S6:54:GLY:HA3	2.01	0.42
1:2:876:G:H1'	1:2:944:A:O4'	2.20	0.42
1:2:895:G:O2'	16:C4:38:THR:N	2.44	0.42
1:2:1017:U:H2'	1:2:1018:U:H6	1.85	0.42
1:2:1237:G:H1	1:2:1248:C:N4	2.17	0.42
1:2:1413:U:H4'	1:2:1414:U:OP2	2.20	0.42
6:S4:246:LEU:HB2	6:S4:251:GLU:CG	2.48	0.42
13:C1:21:ASN:HD22	13:C1:31:THR:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:91:THR:O	16:C4:92:LYS:HD2	2.20	0.42
22:D0:22:ILE:HG22	22:D0:93:LEU:HB2	2.00	0.42
24:D2:23:ARG:NH1	24:D2:65:LEU:O	2.53	0.42
24:D2:41:MET:HG2	24:D2:129:VAL:HG21	2.01	0.42
25:D3:7:ARG:HB2	25:D3:7:ARG:HH11	1.85	0.42
36:1:494:G:OP1	36:1:494:G:H3'	2.19	0.42
36:1:592:A:C5	36:1:593:C:C5	3.08	0.42
36:1:1230:G:H1	36:1:1279:C:N4	2.12	0.42
36:1:1465:A:H5''	36:1:1466:G:OP2	2.19	0.42
36:1:1806:A:H2'	36:1:1807:G:O4'	2.20	0.42
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.54	0.42
36:1:2828:G:C6	36:1:2829:U:C2	3.08	0.42
36:1:2907:G:OP1	86:1:4145:OHX:N4	2.53	0.42
36:1:3060:C:H1'	36:1:3332:U:H1'	2.01	0.42
36:1:3063:C:O2'	36:1:3064:U:H5'	2.19	0.42
37:3:55:A:H2'	37:3:56:A:O4'	2.20	0.42
38:4:84:C:H1'	62:N6:113:LYS:HG2	2.01	0.42
40:L3:372:THR:OG1	40:L3:374:ALA:HB3	2.19	0.42
41:L4:22:LEU:HA	41:L4:23:PRO:HD3	1.60	0.42
45:L8:67:ILE:CG2	45:L8:237:ILE:HB	2.50	0.42
45:L8:73:PRO:HD3	45:L8:233:TRP:CG	2.55	0.42
47:M0:207:GLU:C	47:M0:209:ASN:N	2.77	0.42
55:M9:165:LYS:HB2	55:M9:165:LYS:HE3	1.86	0.42
66:O0:17:VAL:CG2	66:O0:100:ILE:HG12	2.50	0.42
78:Q2:104:LEU:HA	78:Q2:104:LEU:HD12	1.60	0.42
1:6:121:U:H1'	6:s4:33:ALA:O	2.20	0.42
1:6:447:U:O2'	6:s4:25:GLY:HA3	2.20	0.42
1:6:775:G:C2'	1:6:776:G:H5'	2.50	0.42
1:6:884:A:H2'	1:6:885:G:C8	2.55	0.42
1:6:1000:C:H5	1:6:1002:G:H3'	1.83	0.42
1:6:1358:G:H2'	1:6:1359:C:C6	2.54	0.42
1:6:1727:G:N2	10:s8:32:GLN:OE1	2.43	0.42
5:s3:4:LEU:HA	5:s3:4:LEU:HD22	1.77	0.42
5:s3:168:ILE:HD13	5:s3:187:LYS:HE3	2.00	0.42
6:s4:48:LEU:HA	6:s4:48:LEU:HD12	1.83	0.42
6:s4:206:ASP:O	6:s4:221:ARG:HA	2.19	0.42
7:s5:203:LYS:O	7:s5:205:SER:N	2.52	0.42
11:s9:116:LEU:HG	11:s9:117:GLY:N	2.35	0.42
13:c1:30:ARG:H	13:c1:30:ARG:HG2	1.51	0.42
19:c7:6:THR:OG1	19:c7:8:THR:HG23	2.20	0.42
20:c8:62:THR:O	20:c8:66:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:145:ARG:CG	35:sM:68:ARG:HH12	2.33	0.42
80:e0:50:VAL:O	80:e0:51:ASN:HB2	2.18	0.42
35:sM:120:GLU:O	35:sM:122:GLU:N	2.53	0.42
36:5:156:G:OP2	72:o6:27:SER:OG	2.28	0.42
36:5:324:A:H8	36:5:324:A:O5'	2.03	0.42
36:5:1010:G:N2	47:m0:193:ASP:OD1	2.53	0.42
36:5:1196:C:OP1	86:5:4236:OHX:N6	2.53	0.42
36:5:1211:U:H1'	36:5:1295:G:N2	2.35	0.42
36:5:2568:C:O2'	36:5:2569:A:P	2.78	0.42
36:5:3006:A:H2'	36:5:3007:U:O4'	2.19	0.42
38:8:129:C:H2'	38:8:130:C:H6	1.85	0.42
40:l3:43:LEU:HG	40:l3:181:ILE:HG21	2.02	0.42
40:l3:169:THR:HG23	40:l3:171:LEU:HG	2.01	0.42
41:l4:35:VAL:HG21	41:l4:244:LEU:HD21	2.02	0.42
44:l7:103:LEU:HA	44:l7:103:LEU:HD23	1.72	0.42
44:l7:216:VAL:HG11	44:l7:227:GLY:CA	2.38	0.42
45:l8:85:ASN:OD1	45:l8:85:ASN:N	2.51	0.42
48:m1:11:ASP:O	48:m1:12:LEU:HB3	2.19	0.42
50:m4:60:LEU:HD13	56:n0:152:LEU:HD11	2.01	0.42
50:m4:127:LYS:O	50:m4:131:VAL:HG23	2.19	0.42
51:m5:18:VAL:HG13	51:m5:19:LEU:CD1	2.50	0.42
60:n4:100:VAL:O	60:n4:103:ALA:HB3	2.20	0.42
61:n5:24:LEU:HB3	61:n5:25:LYS:H	1.58	0.42
67:o1:94:GLU:HB2	67:o1:95:PRO:HD2	2.01	0.42
69:o3:48:ARG:HA	69:o3:48:ARG:HD2	1.86	0.42
72:o6:25:LYS:HG3	72:o6:28:TYR:HE2	1.84	0.42
79:q3:13:LYS:HD2	79:q3:14:TYR:CZ	2.55	0.42
1:2:75:U:H2'	1:2:76:A:O4'	2.20	0.42
1:2:420:A:H2'	1:2:421:A:O4'	2.20	0.42
1:2:502:U:H2'	1:2:503:G:O4'	2.20	0.42
1:2:886:U:C4	1:2:887:A:N7	2.88	0.42
1:2:1115:U:O3'	77:Q1:17:ARG:NH2	2.52	0.42
1:2:1119:G:C6	1:2:1120:U:C4	3.08	0.42
1:2:1232:U:O4	33:E1:97:LYS:HD3	2.20	0.42
1:2:1288:G:N7	1:2:1314:U:O2'	2.46	0.42
1:2:1312:A:H8	1:2:1312:A:OP1	2.03	0.42
1:2:1460:A:C4	17:C5:128:HIS:CD2	3.07	0.42
2:S0:117:GLU:OE1	4:S2:40:LYS:HG3	2.19	0.42
3:S1:123:ALA:HB2	3:S1:165:ARG:HG2	2.01	0.42
3:S1:191:GLU:O	3:S1:194:ASN:HB2	2.19	0.42
4:S2:61:LEU:HA	4:S2:61:LEU:HD23	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:41:LYS:O	7:S5:67:PRO:HB2	2.19	0.42
8:S6:12:SER:CB	8:S6:124:LEU:HA	2.50	0.42
9:S7:6:ALA:HB1	9:S7:9:LEU:HB2	2.02	0.42
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.20	0.42
13:C1:93:TYR:HD1	13:C1:100:TYR:CZ	2.38	0.42
15:C3:52:VAL:HG22	15:C3:55:ARG:HH22	1.85	0.42
23:D1:60:ARG:HA	23:D1:65:SER:HB2	2.00	0.42
24:D2:30:SER:HA	24:D2:34:ILE:HD12	2.02	0.42
27:D5:39:ALA:HA	27:D5:70:LYS:O	2.20	0.42
28:D6:64:LEU:HA	28:D6:65:PRO:HD3	1.69	0.42
31:D9:5:ASN:CG	31:D9:7:TRP:HE1	2.25	0.42
36:1:185:C:H2'	36:1:186:U:H6	1.84	0.42
36:1:1656:A:OP2	70:O4:37:LYS:HE3	2.19	0.42
36:1:1741:A:C2	36:1:1742:U:C4	3.07	0.42
36:1:2512:C:N4	36:1:2513:U:O4	2.52	0.42
36:1:2547:A:C2	36:1:2548:C:H1'	2.54	0.42
36:1:2883:U:H2'	36:1:2884:C:C6	2.55	0.42
36:1:3198:U:H1'	46:L9:21:LYS:HB2	2.02	0.42
86:1:4030:OHX:N2	86:1:4043:OHX:N5	2.68	0.42
38:4:66:A:H2'	38:4:67:U:C6	2.55	0.42
43:L6:76:LEU:HA	43:L6:76:LEU:HD23	1.84	0.42
44:L7:217:PRO:HG2	44:L7:218:ARG:H	1.85	0.42
45:L8:247:ASP:O	45:L8:251:LYS:HB2	2.20	0.42
46:L9:34:LEU:HD21	46:L9:149:ASN:CB	2.48	0.42
47:M0:76:MET:HE1	47:M0:138:VAL:HG11	2.02	0.42
52:M6:41:LEU:HB3	52:M6:138:LEU:HD22	2.02	0.42
53:M7:53:ASP:O	86:M7:206:OHX:N3	2.52	0.42
54:M8:44:PHE:O	54:M8:48:VAL:HG23	2.19	0.42
54:M8:67:ILE:HG22	54:M8:68:ALA:N	2.34	0.42
54:M8:161:LYS:O	54:M8:162:ALA:HB3	2.20	0.42
58:N2:27:VAL:HG21	58:N2:107:PHE:HE1	1.83	0.42
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.52	0.42
66:O0:25:LEU:CD2	66:O0:90:VAL:HG22	2.50	0.42
67:O1:55:LEU:HB2	67:O1:95:PRO:HD3	2.01	0.42
70:O4:71:THR:HG22	70:O4:78:GLY:N	2.28	0.42
72:O6:74:LYS:HG3	72:O6:79:SER:C	2.45	0.42
1:6:105:A:H2'	1:6:106:U:O4'	2.20	0.42
1:6:219:A:O2'	1:6:220:A:O4'	2.37	0.42
1:6:448:C:P	6:s4:49:ARG:HH12	2.42	0.42
1:6:886:U:OP1	3:s1:214:LYS:NZ	2.50	0.42
1:6:1035:G:O6	86:6:2179:OHX:N5	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1042:G:N2	1:6:1077:C:O2	2.53	0.42
1:6:1108:G:O6	25:d3:22:ASN:ND2	2.52	0.42
1:6:1342:C:H5'	34:sR:102:ARG:NH1	2.35	0.42
1:6:1773:C:OP2	77:q1:2:ARG:HD2	2.20	0.42
86:6:2125:OHX:N3	13:c1:19:ILE:HD13	2.34	0.42
2:s0:9:LEU:CD1	2:s0:14:ALA:HB2	2.43	0.42
2:s0:49:ASN:CG	2:s0:52:LYS:HG3	2.44	0.42
5:s3:216:PRO:HB2	5:s3:217:ILE:H	1.50	0.42
6:s4:26:CYS:HB2	6:s4:27:TYR:CD2	2.55	0.42
7:s5:184:PHE:CD1	7:s5:185:ARG:HG3	2.54	0.42
9:s7:38:LEU:HD23	9:s7:38:LEU:HA	1.72	0.42
10:s8:27:PHE:C	10:s8:27:PHE:CD2	2.97	0.42
14:c2:97:LEU:HA	14:c2:97:LEU:HD23	1.84	0.42
16:c4:103:ARG:HH12	28:d6:48:ALA:CB	2.32	0.42
22:d0:44:ASN:OD1	22:d0:103:ILE:HD11	2.19	0.42
26:d4:35:VAL:O	26:d4:36:SER:HB3	2.20	0.42
80:e0:62:VAL:O	80:e0:63:GLN:HB2	2.20	0.42
33:e1:144:CYS:C	33:e1:146:SER:N	2.77	0.42
36:5:190:U:H2'	62:n6:60:ARG:NH2	2.34	0.42
36:5:848:A:C4	36:5:849:C:H1'	2.55	0.42
36:5:1047:A:C6	36:5:1048:A:C6	3.08	0.42
36:5:1629:U:O2'	36:5:1630:U:O5'	2.34	0.42
36:5:1838:G:H4'	36:5:1839:A:N3	2.34	0.42
36:5:2572:C:H2'	36:5:2572:C:OP2	2.20	0.42
37:7:92:A:C5	37:7:93:C:H1'	2.54	0.42
40:l3:24:SER:OG	40:l3:25:ILE:N	2.53	0.42
41:l4:22:LEU:HD22	41:l4:26:PHE:HB2	2.02	0.42
42:l5:113:LEU:HD12	42:l5:113:LEU:HA	1.77	0.42
42:l5:261:THR:H	42:l5:264:GLN:CD	2.27	0.42
44:l7:118:LYS:HG3	44:l7:191:VAL:HG11	2.01	0.42
45:l8:50:VAL:HG22	45:l8:52:TRP:CD1	2.54	0.42
47:m0:38:LYS:CG	47:m0:41:ALA:HB2	2.49	0.42
48:m1:38:GLU:O	48:m1:40:LEU:N	2.53	0.42
49:m3:116:LEU:HD23	49:m3:116:LEU:HA	1.80	0.42
53:m7:94:LEU:HB3	53:m7:148:LEU:CD2	2.48	0.42
56:n0:78:TRP:HB2	56:n0:125:LYS:H	1.84	0.42
1:2:150:U:H2'	1:2:151:G:O4'	2.20	0.42
1:2:329:G:H5''	10:S8:98:LYS:HB3	2.01	0.42
1:2:333:A:C6	1:2:334:G:C6	3.08	0.42
1:2:838:G:O6	86:2:2038:OHX:N4	2.53	0.42
1:2:899:G:O2'	1:2:915:A:N1	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1147:A:H2'	1:2:1148:C:H6	1.84	0.42
1:2:1355:C:H2'	1:2:1356:U:O4'	2.20	0.42
1:2:1379:C:H1'	18:C6:19:VAL:HG21	2.01	0.42
3:S1:104:ASP:OD2	3:S1:105:PHE:N	2.52	0.42
3:S1:105:PHE:H	3:S1:214:LYS:CE	2.31	0.42
5:S3:59:LEU:HG	5:S3:60:GLY:O	2.20	0.42
7:S5:144:GLU:OE1	7:S5:225:ARG:NH2	2.48	0.42
9:S7:162:ILE:HB	9:S7:169:PHE:CE2	2.55	0.42
13:C1:26:LYS:HA	13:C1:26:LYS:HD3	1.76	0.42
13:C1:104:HIS:CD2	13:C1:104:HIS:C	2.98	0.42
15:C3:16:ILE:HA	15:C3:17:PRO:HD3	1.86	0.42
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.49	0.42
20:C8:24:GLY:O	20:C8:26:ILE:N	2.47	0.42
20:C8:101:LEU:O	20:C8:104:ASN:HB3	2.19	0.42
20:C8:108:LYS:HA	20:C8:111:ASP:HB2	2.02	0.42
35:SM:102:THR:HG23	35:SM:105:LYS:H	1.85	0.42
36:1:846:A:H2'	36:1:847:A:O4'	2.19	0.42
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.35	0.42
36:1:1340:G:H2'	36:1:1341:U:C6	2.55	0.42
36:1:1348:U:OP2	54:M8:38:ARG:NH2	2.53	0.42
36:1:1553:U:C4'	36:1:1554:U:H5'	2.48	0.42
36:1:2403:G:N2	36:1:2404:A:H62	2.17	0.42
36:1:2437:G:N2	36:1:2511:A:H1'	2.34	0.42
36:1:3316:A:H2	36:1:3389:U:H5'	1.85	0.42
86:1:4054:OHX:N6	86:1:4162:OHX:N3	2.68	0.42
39:L2:5:ILE:CG1	39:L2:8:GLN:HG3	2.49	0.42
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.55	0.42
45:L8:81:THR:HG21	45:L8:181:LYS:HD2	2.02	0.42
46:L9:78:MET:HE3	46:L9:78:MET:HB3	1.95	0.42
50:M4:21:VAL:HG23	50:M4:63:VAL:HG21	2.02	0.42
51:M5:149:ASN:O	51:M5:152:CYS:HB2	2.20	0.42
54:M8:178:ARG:HD3	54:M8:178:ARG:HA	1.74	0.42
55:M9:37:SER:OG	55:M9:38:ARG:N	2.52	0.42
64:N8:126:LYS:HB3	64:N8:148:ILE:HG21	2.02	0.42
1:6:199:G:O2'	1:6:200:A:H8	2.03	0.42
1:6:359:A:C2	25:d3:38:PHE:HB3	2.54	0.42
1:6:390:G:N3	1:6:390:G:H5''	2.35	0.42
1:6:648:G:C4	1:6:687:G:N2	2.88	0.42
1:6:1405:G:H2'	1:6:1406:A:C8	2.55	0.42
1:6:1458:G:C2	1:6:1459:C:C4	3.08	0.42
1:6:1558:U:H3	17:c5:122:THR:HG22	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1701:A:N7	1:6:1702:A:N3	2.68	0.42
3:s1:163:ALA:O	3:s1:167:VAL:HG23	2.19	0.42
5:s3:66:ILE:HA	5:s3:69:LEU:HB2	2.02	0.42
9:s7:163:ASP:N	9:s7:163:ASP:OD1	2.52	0.42
10:s8:98:LYS:HD2	10:s8:172:ARG:HG3	2.00	0.42
11:s9:105:LEU:HD12	11:s9:105:LEU:HA	1.82	0.42
14:c2:45:LEU:O	14:c2:49:THR:HG23	2.19	0.42
15:c3:36:GLN:O	15:c3:39:LYS:HB3	2.19	0.42
21:c9:37:VAL:CG1	21:c9:100:ILE:HD11	2.49	0.42
26:d4:52:LYS:C	26:d4:54:ALA:N	2.78	0.42
28:d6:50:VAL:HA	28:d6:53:LEU:HB2	2.02	0.42
36:5:173:G:H22	36:5:246:U:H1'	1.84	0.42
36:5:1020:G:H2'	36:5:1021:G:O4'	2.19	0.42
36:5:1691:U:H2'	36:5:1692:U:C6	2.55	0.42
36:5:1765:U:H5'	55:m9:43:LYS:NZ	2.33	0.42
36:5:1817:G:O2'	36:5:1818:U:P	2.78	0.42
36:5:1913:A:N3	36:5:2120:A:H2'	2.34	0.42
36:5:2771:U:H2'	36:5:2772:C:C6	2.54	0.42
36:5:3071:U:H2'	36:5:3072:C:O4'	2.19	0.42
36:5:3232:G:H2'	36:5:3233:C:O4'	2.20	0.42
36:5:3263:G:O6	86:5:4120:OHX:N2	2.53	0.42
86:5:4055:OHX:N3	86:5:4200:OHX:N4	2.67	0.42
41:l4:39:PHE:CD2	41:l4:39:PHE:C	2.98	0.42
41:l4:89:ALA:C	41:l4:90:PHE:O	2.63	0.42
41:l4:302:ALA:HB2	54:m8:39:ARG:HH12	1.84	0.42
45:l8:24:ASN:HB3	45:l8:25:PRO:HD2	2.02	0.42
46:l9:31:ARG:HB3	46:l9:149:ASN:OD1	2.19	0.42
47:m0:205:SER:O	47:m0:205:SER:OG	2.38	0.42
49:m3:27:ASP:O	49:m3:31:LYS:HB2	2.20	0.42
52:m6:106:GLU:H	52:m6:106:GLU:HG2	1.47	0.42
61:n5:113:LEU:C	61:n5:113:LEU:HD12	2.45	0.42
1:2:5:U:H2'	1:2:6:G:H8	1.84	0.42
1:2:177:U:H1'	8:S6:191:ARG:NH1	2.34	0.42
1:2:422:G:OP1	86:2:2043:OHX:N6	2.53	0.42
1:2:487:G:H3'	1:2:488:G:H5''	2.02	0.42
1:2:558:U:OP2	32:E0:55:ARG:NH1	2.53	0.42
1:2:767:U:C5	11:S9:142:ASN:OD1	2.72	0.42
1:2:767:U:H5	11:S9:142:ASN:H	1.67	0.42
1:2:927:C:H1'	16:C4:125:SER:CB	2.49	0.42
6:S4:104:ASP:HB3	6:S4:105:VAL:H	1.33	0.42
7:S5:41:LYS:HB3	7:S5:67:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:84:ILE:HB	15:C3:88:LEU:HD12	2.01	0.42
17:C5:81:ARG:NH1	17:C5:120:SER:HB3	2.29	0.42
21:C9:85:SER:C	21:C9:87:GLY:H	2.27	0.42
23:D1:3:ASN:O	23:D1:4:ASP:C	2.62	0.42
23:D1:82:VAL:HG12	23:D1:83:TRP:N	2.34	0.42
24:D2:103:ILE:O	24:D2:103:ILE:HD13	2.19	0.42
25:D3:44:GLY:H	25:D3:78:LYS:NZ	2.17	0.42
25:D3:73:ARG:HE	25:D3:84:THR:HG22	1.85	0.42
25:D3:142:LYS:HA	25:D3:143:PRO:HD3	1.76	0.42
36:1:40:A:C2	64:N8:40:HIS:CE1	3.08	0.42
36:1:143:G:H4'	38:4:145:U:OP1	2.20	0.42
36:1:1004:U:C4	36:1:1005:G:N7	2.88	0.42
36:1:1123:U:H2'	36:1:1124:U:H5'	2.02	0.42
36:1:1508:C:C6	36:1:1880:U:H1'	2.54	0.42
36:1:1581:C:H2'	36:1:1582:C:C5'	2.50	0.42
36:1:1793:C:C4	39:L2:179:LEU:HD13	2.55	0.42
36:1:1908:A:H2'	36:1:1909:A:O4'	2.19	0.42
36:1:2163:C:O2'	39:L2:11:GLY:HA3	2.19	0.42
36:1:2383:C:H2'	36:1:2384:A:H5'	2.01	0.42
36:1:2836:C:H5	36:1:2852:C:N4	2.05	0.42
36:1:3361:G:O6	86:1:4159:OHX:N6	2.53	0.42
38:4:106:C:O2'	86:4:234:OHX:N4	2.53	0.42
40:L3:188:ILE:H	40:L3:188:ILE:HG13	1.57	0.42
42:L5:4:GLN:OE1	42:L5:4:GLN:N	2.53	0.42
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.55	0.42
43:L6:80:ASN:OD1	43:L6:81:ALA:N	2.53	0.42
46:L9:31:ARG:HG2	46:L9:149:ASN:ND2	2.34	0.42
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.55	0.42
46:L9:163:GLN:C	46:L9:165:CYS:H	2.28	0.42
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.55	0.42
47:M0:116:ARG:O	47:M0:117:GLY:C	2.63	0.42
56:N0:45:LEU:HA	56:N0:45:LEU:HD13	1.81	0.42
61:N5:45:LYS:HG2	71:O5:75:TYR:CD2	2.54	0.42
1:6:197:A:H2'	1:6:198:A:H8	1.85	0.42
1:6:706:A:H2'	1:6:707:A:O4'	2.20	0.42
1:6:751:G:H2'	1:6:752:A:C8	2.55	0.42
1:6:876:G:H1'	1:6:944:A:O4'	2.20	0.42
1:6:955:A:H2'	1:6:956:C:O4'	2.19	0.42
1:6:1757:G:O6	86:6:2046:OHX:N4	2.52	0.42
2:s0:142:PRO:HG3	23:d1:32:VAL:HG22	2.02	0.42
8:s6:30:LYS:HE3	8:s6:30:LYS:HB3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:178:LEU:O	8:s6:183:ARG:NH1	2.52	0.42
11:s9:93:LEU:HD12	11:s9:93:LEU:HA	1.80	0.42
15:c3:48:SER:O	15:c3:52:VAL:HG23	2.19	0.42
16:c4:121:VAL:HA	16:c4:122:PRO:HD3	1.79	0.42
26:d4:116:LYS:C	26:d4:118:ILE:H	2.28	0.42
36:5:197:G:N2	36:5:372:A:C8	2.88	0.42
36:5:665:A:H1'	49:m3:14:PHE:CZ	2.54	0.42
36:5:1397:C:O2'	36:5:1398:U:H5'	2.20	0.42
36:5:1644:C:OP1	36:5:1821:U:H2'	2.20	0.42
36:5:2436:U:O5'	36:5:2436:U:H6	2.02	0.42
36:5:2882:U:H2'	36:5:2883:U:H6	1.85	0.42
36:5:2902:A:H5'	36:5:3032:A:H1'	2.02	0.42
36:5:2946:A:C5'	36:5:2947:G:H5'	2.50	0.42
36:5:3040:A:H5''	59:n3:12:ARG:HB2	2.01	0.42
43:l6:52:VAL:CG1	43:l6:65:ILE:HG23	2.50	0.42
44:l7:173:LEU:HA	44:l7:173:LEU:HD12	1.73	0.42
48:m1:41:SER:C	48:m1:43:GLN:H	2.27	0.42
50:m4:17:VAL:HG11	50:m4:74:ARG:HA	2.01	0.42
51:m5:143:ARG:NH2	71:o5:92:LEU:HD23	2.34	0.42
52:m6:124:LEU:HD12	52:m6:124:LEU:HA	1.93	0.42
55:m9:163:ARG:O	55:m9:167:ARG:HG2	2.19	0.42
59:n3:13:ILE:HG13	59:n3:14:SER:N	2.24	0.42
66:o0:9:SER:O	66:o0:10:ILE:HD12	2.19	0.42
68:o2:20:HIS:HB2	68:o2:50:ILE:HD11	2.02	0.42
76:q0:127:LEU:HD22	76:q0:128:LYS:HG3	2.02	0.42
78:q2:47:GLN:NE2	78:q2:53:GLN:OE1	2.53	0.42
1:2:10:G:N7	1:2:1633:A:C2	2.88	0.41
1:2:318:U:O4	86:2:2126:OHX:N5	2.53	0.41
1:2:344:A:C6	1:2:345:U:C4	3.08	0.41
1:2:367:A:C6	1:2:368:U:C4	3.07	0.41
1:2:636:A:H1'	24:D2:58:SER:OG	2.19	0.41
1:2:792:U:H2'	1:2:793:A:O4'	2.20	0.41
1:2:969:C:H4'	1:2:1104:U:O2'	2.19	0.41
1:2:1228:G:H4'	1:2:1229:G:OP2	2.20	0.41
1:2:1229:G:HO2'	1:2:1255:G:H1	1.68	0.41
2:S0:126:PRO:O	2:S0:130:ALA:HB2	2.20	0.41
3:S1:107:THR:O	3:S1:111:ARG:HB2	2.20	0.41
3:S1:124:ASN:HD22	3:S1:138:PHE:HE1	1.68	0.41
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.55	0.41
5:S3:142:LEU:O	5:S3:144:ALA:N	2.50	0.41
6:S4:131:LEU:HD22	6:S4:131:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:57:SER:O	7:S5:59:VAL:N	2.43	0.41
14:C2:135:MET:HE3	14:C2:135:MET:HB3	1.91	0.41
18:C6:29:ILE:HA	18:C6:65:ILE:HB	2.01	0.41
19:C7:104:ASN:O	19:C7:107:SER:HB3	2.19	0.41
20:C8:85:PHE:HB3	20:C8:86:LEU:HD12	2.01	0.41
28:D6:10:ARG:HB3	28:D6:34:LYS:HA	2.01	0.41
29:D7:72:LYS:HB2	29:D7:72:LYS:HE2	1.87	0.41
30:D8:22:ARG:HA	30:D8:22:ARG:HD3	1.89	0.41
34:SR:7:LEU:HA	34:SR:315:VAL:HA	2.02	0.41
34:SR:126:SER:C	34:SR:128:ASP:H	2.28	0.41
34:SR:191:ASP:HB3	34:SR:193:ILE:HD11	2.02	0.41
34:SR:251:TRP:HA	34:SR:263:PHE:O	2.20	0.41
36:1:698:U:H2'	36:1:699:A:O4'	2.21	0.41
36:1:1532:C:H2'	36:1:1533:U:C6	2.55	0.41
36:1:1925:U:O2	79:Q3:19:GLY:HA2	2.19	0.41
39:L2:145:LYS:HB3	39:L2:157:VAL:HG23	2.01	0.41
42:L5:41:LYS:HA	42:L5:41:LYS:HE2	2.02	0.41
44:L7:191:VAL:O	44:L7:191:VAL:HG12	2.20	0.41
46:L9:163:GLN:C	46:L9:165:CYS:N	2.78	0.41
56:N0:46:GLN:HG3	56:N0:51:VAL:O	2.19	0.41
66:O0:18:ILE:HD13	66:O0:81:VAL:O	2.20	0.41
1:6:271:A:H8	1:6:271:A:H5''	1.85	0.41
1:6:654:C:H2'	1:6:655:G:H8	1.85	0.41
1:6:993:A:H2	39:12:247:ARG:HH12	1.68	0.41
1:6:1243:G:H5''	1:6:1243:G:N3	2.35	0.41
1:6:1314:U:OP2	86:6:2183:OHX:N4	2.53	0.41
1:6:1336:A:OP1	86:6:2177:OHX:N1	2.53	0.41
1:6:1474:G:H2'	1:6:1475:A:C8	2.55	0.41
6:s4:32:SER:OG	6:s4:79:ASP:OD2	2.27	0.41
9:s7:7:LYS:C	9:s7:9:LEU:H	2.28	0.41
9:s7:62:VAL:HA	9:s7:63:PRO:HD3	1.79	0.41
9:s7:173:TYR:CE1	9:s7:181:ILE:HD11	2.54	0.41
34:sR:95:ALA:O	34:sR:96:THR:HB	2.18	0.41
36:5:35:A:O2'	36:5:36:C:H5'	2.19	0.41
36:5:309:U:OP1	72:o6:84:LYS:HE3	2.20	0.41
36:5:567:G:H2'	36:5:568:G:C8	2.54	0.41
36:5:643:U:OP1	36:5:1116:G:O2'	2.33	0.41
36:5:909:G:O2'	86:5:4078:OHX:N2	2.53	0.41
36:5:969:C:O5'	36:5:969:C:H6	2.03	0.41
36:5:1037:C:C2	36:5:1038:C:C5	3.08	0.41
36:5:1222:G:OP1	82:p0:58:MET:HE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1481:A:H61	70:o4:2:ALA:HB1	1.85	0.41
36:5:1502:C:N3	36:5:1513:G:O6	2.53	0.41
36:5:1614:C:O2'	36:5:1615:C:H5'	2.19	0.41
36:5:1782:U:H2'	36:5:1783:U:H6	1.85	0.41
36:5:2128:C:H2'	36:5:2129:U:O4'	2.20	0.41
37:7:24:A:O5'	37:7:24:A:H8	2.03	0.41
38:8:49:G:O2'	71:o5:40:SER:HB2	2.20	0.41
40:l3:60:LEU:HD23	40:l3:67:PHE:O	2.20	0.41
40:l3:77:THR:HG21	40:l3:327:CYS:HA	2.01	0.41
40:l3:283:TYR:HB3	40:l3:323:MET:HE2	2.02	0.41
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	2.02	0.41
41:l4:301:PRO:O	41:l4:302:ALA:HB2	2.19	0.41
41:l4:317:PRO:HB3	41:l4:324:LEU:HA	2.02	0.41
42:l5:95:TRP:HZ3	42:l5:156:GLY:C	2.28	0.41
51:m5:7:LEU:HB3	51:m5:46:ASP:HB3	2.01	0.41
51:m5:73:ARG:HG2	51:m5:75:VAL:HG22	2.01	0.41
53:m7:67:ILE:N	53:m7:67:ILE:HD13	2.34	0.41
57:n1:68:THR:HG23	57:n1:69:LYS:N	2.35	0.41
61:n5:105:VAL:CG1	61:n5:126:LEU:HD22	2.50	0.41
62:n6:126:LEU:HB3	62:n6:127:GLU:OE2	2.19	0.41
69:o3:45:LEU:HA	69:o3:71:VAL:HG12	2.02	0.41
74:o8:26:LYS:NZ	74:o8:28:ASN:OD1	2.53	0.41
1:2:36:C:H2'	1:2:37:U:O4'	2.19	0.41
1:2:704:C:H3'	1:2:704:C:OP2	2.20	0.41
1:2:1217:A:H4'	12:C0:44:LYS:HE3	2.02	0.41
1:2:1370:U:H4'	1:2:1371:A:C5'	2.50	0.41
86:2:2096:OHX:N3	86:2:2110:OHX:N5	2.68	0.41
7:S5:36:ALA:HB3	7:S5:45:LYS:NZ	2.35	0.41
9:S7:122:HIS:HA	9:S7:125:ILE:HD12	2.02	0.41
11:S9:30:LEU:HD21	11:S9:102:GLU:HG3	2.02	0.41
16:C4:85:ALA:HB3	16:C4:119:THR:HG21	2.01	0.41
25:D3:86:PHE:O	25:D3:88:PRO:HD3	2.20	0.41
26:D4:9:THR:O	26:D4:10:ARG:HG3	2.20	0.41
28:D6:79:ILE:HA	28:D6:84:VAL:CB	2.40	0.41
34:SR:202:LEU:HA	34:SR:212:ALA:O	2.21	0.41
36:1:542:G:H2'	36:1:543:C:C6	2.54	0.41
36:1:550:A:N6	36:1:551:A:H62	2.18	0.41
36:1:566:G:N7	86:1:4000:OHX:N4	2.68	0.41
36:1:1104:G:H8	36:1:1104:G:O5'	2.04	0.41
36:1:1321:G:C6	36:1:1322:U:C4	3.08	0.41
36:1:1506:A:C2	36:1:1513:G:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2197:C:C2	36:1:2241:U:C4	3.08	0.41
36:1:2644:C:O2	47:M0:116:ARG:HD3	2.20	0.41
36:1:2809:C:N3	36:1:2810:C:H1'	2.35	0.41
36:1:2984:C:C2	36:1:2985:C:C5	3.08	0.41
36:1:3221:C:C4	36:1:3222:U:C5	3.08	0.41
36:1:3269:U:O2'	86:1:4193:OHX:N4	2.53	0.41
86:1:4083:OHX:N5	86:1:4153:OHX:N1	2.68	0.41
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.20	0.41
41:L4:304:GLN:O	41:L4:305:ALA:HB3	2.21	0.41
43:L6:67:GLY:HA3	43:L6:68:PRO:C	2.44	0.41
45:L8:78:PHE:C	45:L8:80:TYR:H	2.27	0.41
48:M1:75:LYS:O	48:M1:78:GLU:HB2	2.20	0.41
49:M3:172:LEU:HA	49:M3:172:LEU:HD23	1.77	0.41
51:M5:65:ARG:HD2	51:M5:129:TYR:CE1	2.55	0.41
51:M5:106:VAL:O	51:M5:109:ARG:N	2.52	0.41
59:N3:26:ALA:O	59:N3:115:THR:HG22	2.19	0.41
61:N5:141:TYR:O	61:N5:142:ILE:HD13	2.20	0.41
76:Q0:96:CYS:C	76:Q0:98:LYS:H	2.28	0.41
1:6:926:A:H2'	1:6:927:C:C6	2.55	0.41
1:6:1159:C:H5''	1:6:1160:A:H5'	2.01	0.41
1:6:1744:A:N6	1:6:1745:G:C6	2.88	0.41
86:6:2125:OHX:N2	86:6:2149:OHX:N1	2.68	0.41
6:s4:30:ARG:HA	6:s4:31:PRO:HD2	1.79	0.41
8:s6:120:GLU:HG3	8:s6:125:THR:HG22	2.02	0.41
10:s8:54:LYS:HE3	10:s8:175:GLN:OE1	2.19	0.41
10:s8:61:GLU:HG2	10:s8:62:THR:N	2.33	0.41
13:c1:58:CYS:HA	13:c1:59:PRO:HD3	1.79	0.41
13:c1:74:THR:HB	13:c1:122:ILE:HD13	2.02	0.41
17:c5:123:TYR:OH	20:c8:126:ARG:NH1	2.41	0.41
20:c8:40:ARG:HG2	20:c8:40:ARG:HH11	1.85	0.41
36:5:789:A:H2'	36:5:790:U:C6	2.55	0.41
36:5:1340:G:OP2	68:o2:61:LYS:HE3	2.20	0.41
36:5:1514:G:C6	36:5:1841:A:C5	3.08	0.41
36:5:1616:U:H5''	70:o4:60:ARG:HH21	1.85	0.41
36:5:2249:G:OP1	86:5:4199:OHX:N6	2.53	0.41
36:5:2390:A:H8	36:5:2390:A:O5'	2.03	0.41
36:5:2715:A:C2	36:5:2753:G:C6	3.08	0.41
36:5:2812:C:H2'	36:5:2813:A:H8	1.85	0.41
36:5:2947:G:N3	40:l3:250:ALA:HB1	2.35	0.41
38:8:145:U:H2'	38:8:146:U:H6	1.83	0.41
41:l4:355:PHE:CD2	41:l4:355:PHE:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:65:ILE:HG12	43:l6:79:VAL:HG12	2.02	0.41
44:l7:88:ARG:NH1	44:l7:91:GLY:O	2.52	0.41
45:l8:236:GLY:O	45:l8:237:ILE:HB	2.20	0.41
46:l9:75:VAL:HA	46:l9:78:MET:HG3	2.02	0.41
47:m0:206:LEU:HD12	47:m0:206:LEU:HA	1.88	0.41
48:m1:34:SER:HA	48:m1:67:VAL:HG11	2.02	0.41
48:m1:59:ILE:HD12	48:m1:65:ILE:HD11	2.02	0.41
51:m5:97:SER:O	51:m5:100:ALA:HB3	2.19	0.41
52:m6:46:GLU:HB3	52:m6:134:LYS:HB3	2.02	0.41
63:n7:92:PHE:CD1	63:n7:92:PHE:N	2.88	0.41
67:o1:12:TYR:O	67:o1:72:ARG:HD2	2.18	0.41
71:o5:101:THR:HG23	71:o5:102:GLU:N	2.33	0.41
73:o7:53:ALA:HA	73:o7:56:ARG:HH11	1.85	0.41
1:2:412:A:H2'	1:2:413:U:C6	2.56	0.41
1:2:825:U:H3	1:2:847:A:H61	1.68	0.41
1:2:852:C:N3	1:2:853:G:C2	2.89	0.41
1:2:1032:G:C6	1:2:1104:U:C4	3.07	0.41
1:2:1487:A:OP2	5:S3:8:LYS:NZ	2.51	0.41
1:2:1555:A:P	17:C5:47:ARG:NH2	2.94	0.41
86:2:2096:OHX:N6	86:2:2110:OHX:N2	2.68	0.41
3:S1:92:GLN:OE1	3:S1:229:MET:HE1	2.21	0.41
3:S1:189:ILE:HB	3:S1:190:PRO:HD3	2.03	0.41
4:S2:183:ALA:O	4:S2:186:LYS:N	2.52	0.41
6:S4:86:PHE:O	6:S4:87:MET:HB2	2.20	0.41
7:S5:82:PHE:CE2	30:D8:49:ARG:HB3	2.55	0.41
14:C2:131:ASP:OD1	14:C2:132:GLU:HG2	2.20	0.41
16:C4:76:ILE:HD12	16:C4:76:ILE:HA	1.84	0.41
16:C4:81:VAL:HG11	16:C4:102:LEU:HD21	2.02	0.41
20:C8:83:ALA:HA	20:C8:86:LEU:HD13	2.02	0.41
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.21	0.41
27:D5:42:LEU:H	27:D5:42:LEU:HD12	1.86	0.41
36:1:1016:C:H1'	36:1:1028:U:C2	2.55	0.41
36:1:1277:C:O2'	36:1:1278:A:OP2	2.30	0.41
36:1:1658:G:H2'	36:1:1659:U:H6	1.84	0.41
36:1:2193:U:H5'	36:1:2194:G:H5'	2.02	0.41
36:1:2419:A:H1'	36:1:2804:A:O4'	2.20	0.41
36:1:2534:G:O6	86:1:3994:OHX:N4	2.53	0.41
36:1:2866:U:O5'	36:1:2866:U:H6	2.04	0.41
36:1:3100:U:O2'	36:1:3101:G:OP2	2.30	0.41
36:1:3210:A:H2'	36:1:3211:C:C6	2.55	0.41
36:1:3243:A:O2'	36:1:3244:A:H8	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3275:U:O5'	36:1:3275:U:H6	2.03	0.41
86:1:3973:OHX:N1	86:1:4154:OHX:N2	2.68	0.41
37:3:26:C:H5'	42:L5:56:THR:HB	2.02	0.41
40:L3:188:ILE:HD12	40:L3:189:SER:N	2.24	0.41
40:L3:238:LEU:HD12	40:L3:238:LEU:HA	1.87	0.41
41:L4:138:ARG:CZ	41:L4:138:ARG:HB3	2.50	0.41
41:L4:188:ARG:O	41:L4:193:LYS:HE2	2.21	0.41
42:L5:85:ARG:HH12	42:L5:253:PHE:HA	1.85	0.41
46:L9:41:ILE:O	46:L9:41:ILE:HD13	2.21	0.41
46:L9:126:VAL:HA	46:L9:127:PRO:HD2	1.91	0.41
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.55	0.41
47:M0:41:ALA:O	47:M0:139:ARG:NH2	2.53	0.41
47:M0:182:LEU:HD22	47:M0:186:GLU:OE2	2.20	0.41
48:M1:23:VAL:CG1	48:M1:29:ARG:HG2	2.50	0.41
56:N0:74:ASN:OD1	56:N0:95:ARG:HD2	2.20	0.41
64:N8:90:TYR:CD1	64:N8:100:PRO:HG3	2.56	0.41
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.46	0.41
74:O8:65:LEU:O	74:O8:68:SER:HB2	2.20	0.41
77:Q1:10:THR:O	77:Q1:11:ARG:C	2.61	0.41
1:6:38:C:H2'	1:6:39:A:H5'	2.02	0.41
1:6:201:G:H2'	1:6:202:A:O4'	2.21	0.41
1:6:353:A:C4	1:6:354:C:C6	3.08	0.41
1:6:461:G:H5''	6:s4:26:CYS:SG	2.61	0.41
1:6:1142:A:H2'	1:6:1143:A:O4'	2.20	0.41
1:6:1255:G:O2'	1:6:1256:A:O5'	2.32	0.41
1:6:1273:G:O5'	1:6:1274:C:H3'	2.20	0.41
1:6:1696:G:H1'	1:6:1705:C:N4	2.35	0.41
2:s0:59:LEU:O	2:s0:63:ILE:HG13	2.19	0.41
3:s1:138:PHE:N	3:s1:138:PHE:CD2	2.88	0.41
3:s1:146:GLN:H	3:s1:149:GLN:NE2	2.18	0.41
4:s2:78:ASP:HB3	4:s2:104:VAL:HG12	2.02	0.41
5:s3:63:GLY:O	5:s3:67:ASN:HB2	2.20	0.41
8:s6:142:ARG:O	8:s6:146:GLY:N	2.53	0.41
9:s7:39:ARG:NH2	55:m9:185:LEU:HD22	2.35	0.41
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	2.02	0.41
28:d6:26:CYS:HB2	28:d6:28:LYS:HB2	2.02	0.41
30:d8:42:ARG:NH2	30:d8:58:GLU:O	2.53	0.41
80:e0:13:LYS:HD2	80:e0:17:GLN:OE1	2.21	0.41
36:5:113:C:C2	36:5:319:A:C2	3.09	0.41
36:5:115:A:P	51:m5:49:ARG:HH21	2.40	0.41
36:5:300:G:O6	86:5:4192:OHX:N2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:686:G:H2'	36:5:687:U:O4'	2.20	0.41
36:5:784:A:C6	54:m8:93:ILE:HG23	2.55	0.41
36:5:860:G:OP1	79:q3:17:ARG:NH1	2.53	0.41
36:5:1023:C:N4	36:5:1029:G:H22	2.15	0.41
36:5:1235:U:C4'	36:5:1236:G:H5'	2.50	0.41
36:5:1481:A:O4'	36:5:1481:A:OP1	2.37	0.41
36:5:1549:U:H2'	36:5:1550:C:H6	1.85	0.41
36:5:2137:U:C6	36:5:2141:U:C4	3.08	0.41
36:5:2598:G:H2'	36:5:2599:U:H6	1.85	0.41
36:5:2736:A:O2'	57:n1:68:THR:HG21	2.20	0.41
36:5:3078:U:O2'	86:5:4196:OHX:N1	2.53	0.41
46:l9:38:LEU:HA	46:l9:38:LEU:HD23	1.66	0.41
47:m0:156:ARG:HD3	47:m0:163:GLN:O	2.20	0.41
47:m0:194:GLY:O	47:m0:196:PHE:N	2.49	0.41
57:n1:14:MET:HE2	57:n1:15:PHE:CE2	2.55	0.41
57:n1:17:ARG:HD3	57:n1:22:HIS:HA	2.02	0.41
59:n3:87:ARG:HH12	59:n3:137:VAL:HG21	1.85	0.41
61:n5:68:THR:HG21	71:o5:36:LEU:HD11	2.02	0.41
70:o4:94:LEU:HD23	70:o4:94:LEU:HA	1.67	0.41
74:o8:27:ILE:HD13	74:o8:41:THR:HB	2.01	0.41
82:p0:25:LEU:HD11	82:p0:86:PHE:CD1	2.55	0.41
1:2:327:U:O2'	13:C1:10:GLU:HG2	2.21	0.41
1:2:329:G:H5'	10:S8:99:ALA:HB3	2.02	0.41
1:2:553:G:C6	1:2:554:C:N3	2.89	0.41
1:2:639:U:O2	9:S7:118:LEU:HB2	2.21	0.41
1:2:677:G:H2'	1:2:678:A:C8	2.56	0.41
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.20	0.41
2:S0:55:GLU:HG2	23:D1:79:LEU:HD22	2.01	0.41
4:S2:66:PHE:C	4:S2:68:ILE:N	2.76	0.41
6:S4:95:THR:O	6:S4:97:GLU:N	2.53	0.41
6:S4:181:VAL:HA	6:S4:227:VAL:O	2.21	0.41
6:S4:194:THR:OG1	6:S4:211:LYS:O	2.26	0.41
6:S4:206:ASP:N	6:S4:206:ASP:OD1	2.53	0.41
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.21	0.41
7:S5:225:ARG:HG3	30:D8:61:ARG:HD2	2.02	0.41
10:S8:150:ALA:O	10:S8:152:ILE:HG13	2.20	0.41
11:S9:99:LEU:HA	11:S9:99:LEU:HD13	1.84	0.41
20:C8:76:PRO:HG2	20:C8:86:LEU:HD21	2.03	0.41
21:C9:77:ASN:OD1	21:C9:101:ASN:ND2	2.53	0.41
24:D2:47:ILE:HG22	24:D2:65:LEU:HD12	2.02	0.41
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:68:TYR:CD2	28:D6:68:TYR:N	2.88	0.41
33:E1:123:ASN:C	33:E1:125:THR:H	2.27	0.41
36:1:25:U:O4	86:1:3868:OHX:N3	2.54	0.41
36:1:67:A:O2'	36:1:315:C:O2	2.38	0.41
36:1:86:G:C5	49:M3:13:HIS:ND1	2.88	0.41
36:1:660:A:H5''	41:L4:100:PHE:CD1	2.55	0.41
36:1:739:G:O6	86:1:3915:OHX:N3	2.53	0.41
36:1:806:A:C4	36:1:936:A:C2	3.08	0.41
36:1:812:G:N7	86:1:3981:OHX:N1	2.68	0.41
36:1:926:A:H2'	36:1:927:C:C6	2.55	0.41
36:1:1578:C:H3'	36:1:1579:C:C6	2.55	0.41
36:1:2611:U:H2'	36:1:2612:U:C6	2.55	0.41
36:1:2889:C:C6	36:1:2936:A:H1'	2.55	0.41
36:1:3392:U:H2'	36:1:3393:U:H6	1.86	0.41
40:L3:95:THR:C	40:L3:97:ARG:N	2.79	0.41
42:L5:200:PHE:HB3	42:L5:237:GLU:HG3	2.02	0.41
45:L8:238:LEU:HD12	45:L8:238:LEU:HA	1.87	0.41
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.20	0.41
46:L9:124:ARG:HD3	46:L9:164:ILE:O	2.20	0.41
47:M0:72:ALA:O	47:M0:76:MET:HG3	2.20	0.41
49:M3:176:GLU:HG2	72:O6:11:LEU:HD21	2.03	0.41
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.20	0.41
1:6:56:U:O4	1:6:92:A:H4'	2.21	0.41
1:6:432:G:H2'	1:6:433:C:O4'	2.20	0.41
1:6:1045:C:C2	1:6:1074:G:C2	3.08	0.41
5:s3:190:ARG:NH1	5:s3:195:SER:HA	2.35	0.41
5:s3:202:LEU:O	5:s3:204:ASP:N	2.54	0.41
8:s6:23:ARG:NH2	8:s6:42:GLY:HA2	2.36	0.41
15:c3:47:PRO:HG2	15:c3:72:MET:HG3	2.02	0.41
15:c3:83:GLU:HG3	15:c3:84:ILE:H	1.85	0.41
16:c4:32:ASP:OD2	16:c4:32:ASP:C	2.63	0.41
20:c8:120:ARG:HG3	35:sM:61:ILE:HG21	2.01	0.41
22:d0:118:VAL:HG22	22:d0:119:ALA:N	2.36	0.41
25:d3:29:TYR:O	25:d3:32:ARG:N	2.53	0.41
34:sR:24:ALA:O	34:sR:33:LEU:HD12	2.20	0.41
34:sR:112:SER:HB2	34:sR:153:GLN:HA	2.02	0.41
36:5:289:A:N3	51:m5:93:LYS:HG3	2.36	0.41
36:5:423:A:C6	36:5:424:G:C6	3.08	0.41
36:5:1498:A:H2'	36:5:1499:C:C6	2.56	0.41
36:5:1690:C:C4	36:5:1691:U:C4	3.08	0.41
36:5:2225:U:H2'	36:5:2226:U:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2569:A:C8	36:5:2570:U:C4	3.08	0.41
36:5:2718:U:O4	86:5:4231:OHX:N6	2.54	0.41
86:5:4086:OHX:N5	37:7:102:A:OP1	2.53	0.41
38:8:84:C:H1'	62:n6:113:LYS:HB2	2.02	0.41
86:8:228:OHX:N5	86:o7:503:OHX:N2	2.68	0.41
39:12:80:GLU:H	39:12:170:ALA:HB2	1.84	0.41
41:14:25:VAL:HG22	41:14:262:TRP:HB2	2.02	0.41
41:14:42:VAL:C	41:14:44:LYS:N	2.73	0.41
41:14:177:ASP:O	41:14:180:LYS:HB3	2.21	0.41
41:14:182:LEU:HD12	41:14:182:LEU:HA	1.85	0.41
42:15:155:THR:HA	42:15:179:ARG:HA	2.02	0.41
42:15:211:LEU:HD13	42:15:219:PHE:HA	2.03	0.41
43:16:44:ALA:O	43:16:48:ARG:HB3	2.19	0.41
44:17:94:LYS:O	44:17:95:ILE:HD13	2.21	0.41
47:m0:76:MET:HE3	47:m0:148:VAL:HA	2.01	0.41
48:m1:107:ASP:O	48:m1:108:GLU:HG2	2.20	0.41
81:m2:61:UNK:HA	81:m2:74:UNK:HA	2.03	0.41
52:m6:171:LYS:O	52:m6:175:THR:HG23	2.19	0.41
55:m9:28:GLU:O	55:m9:32:ILE:HG13	2.20	0.41
56:n0:7:TYR:CE1	56:n0:34:GLU:HG2	2.55	0.41
56:n0:81:TYR:CE1	56:n0:90:MET:HE3	2.55	0.41
57:n1:104:GLU:HG3	57:n1:105:PHE:N	2.35	0.41
59:n3:83:LYS:HE3	59:n3:84:SER:O	2.21	0.41
67:o1:20:LEU:HD23	67:o1:20:LEU:HA	1.75	0.41
78:q2:21:THR:HG21	78:q2:76:LYS:HD2	2.01	0.41
82:p0:25:LEU:HB3	82:p0:191:TYR:CD2	2.55	0.41
82:p0:93:LEU:CD1	82:p0:94:THR:H	2.34	0.41
1:2:4:C:P	4:S2:200:SER:HG	2.43	0.41
1:2:196:G:O2'	1:2:197:A:P	2.78	0.41
1:2:1228:G:N1	14:C2:67:THR:HB	2.32	0.41
1:2:1609:U:H2'	1:2:1610:G:O4'	2.21	0.41
2:S0:136:ALA:HB1	2:S0:141:ILE:HB	2.02	0.41
3:S1:41:ARG:HH22	3:S1:232:HIS:HB3	1.86	0.41
3:S1:191:GLU:HB2	3:S1:194:ASN:CG	2.46	0.41
6:S4:95:THR:HG22	26:D4:16:PRO:HB2	2.03	0.41
7:S5:79:ASN:OD1	7:S5:79:ASN:N	2.53	0.41
7:S5:123:VAL:O	27:D5:58:ARG:HD2	2.21	0.41
7:S5:163:SER:HB2	30:D8:48:VAL:CG2	2.50	0.41
8:S6:58:LYS:O	8:S6:59:GLN:HB2	2.19	0.41
9:S7:18:LEU:O	9:S7:22:GLN:HB2	2.21	0.41
18:C6:42:GLU:C	18:C6:44:LEU:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:56:LYS:HB3	20:C8:60:GLU:HG3	2.03	0.41
20:C8:76:PRO:O	20:C8:81:ILE:HB	2.21	0.41
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	2.02	0.41
36:1:316:U:O2'	72:O6:30:LYS:HD2	2.20	0.41
36:1:563:U:OP1	56:N0:71:LYS:NZ	2.42	0.41
36:1:563:U:H2'	36:1:564:G:C8	2.56	0.41
36:1:715:A:H8	64:N8:115:LYS:HG3	1.85	0.41
36:1:1047:A:C6	36:1:1048:A:C6	3.08	0.41
36:1:1090:G:H2'	36:1:1091:A:H8	1.85	0.41
36:1:1131:G:C4	36:1:2373:A:C2	3.08	0.41
36:1:1134:G:O2'	36:1:2642:A:N3	2.45	0.41
36:1:1306:G:C6	52:M6:62:THR:HA	2.55	0.41
36:1:1770:G:H5'	36:1:1771:C:OP2	2.20	0.41
36:1:2245:C:H4'	39:L2:221:LYS:O	2.21	0.41
36:1:3316:A:C6	36:1:3389:U:C2	3.08	0.41
86:1:4026:OHX:N2	86:1:4146:OHX:N1	2.68	0.41
38:4:124:G:H1	38:4:129:C:H42	1.68	0.41
42:L5:109:THR:C	42:L5:111:GLN:N	2.79	0.41
45:L8:195:SER:O	45:L8:196:ALA:HB3	2.20	0.41
46:L9:164:ILE:HD13	46:L9:164:ILE:HA	1.89	0.41
53:M7:120:ASN:HB2	53:M7:121:GLN:H	1.52	0.41
62:N6:6:LEU:HD23	62:N6:6:LEU:HA	1.71	0.41
64:N8:10:LYS:HD2	64:N8:10:LYS:HA	1.82	0.41
64:N8:60:TYR:CD1	64:N8:60:TYR:C	2.98	0.41
66:O0:16:LEU:HA	66:O0:16:LEU:HD22	1.80	0.41
67:O1:74:ARG:HH12	67:O1:109:VAL:HG11	1.84	0.41
71:O5:21:LEU:HD21	71:O5:51:ILE:HG23	2.01	0.41
1:6:117:U:H2'	1:6:118:U:H6	1.86	0.41
1:6:219:A:N6	1:6:843:U:C2	2.87	0.41
1:6:561:G:C2	1:6:585:A:C2	3.09	0.41
1:6:716:C:H2'	1:6:717:C:O4'	2.21	0.41
1:6:862:A:C2	1:6:963:A:C4	3.09	0.41
1:6:1160:A:H2'	1:6:1161:C:H6	1.83	0.41
1:6:1253:U:H4'	33:e1:143:LYS:N	2.35	0.41
1:6:1553:G:N7	17:c5:43:ARG:NH1	2.68	0.41
2:s0:119:ARG:HE	4:s2:240:LEU:HD23	1.86	0.41
7:s5:81:ARG:HG2	7:s5:82:PHE:CE2	2.56	0.41
12:c0:46:LEU:O	12:c0:50:THR:HG23	2.20	0.41
17:c5:17:TYR:CG	17:c5:18:ARG:N	2.89	0.41
21:c9:6:VAL:C	21:c9:8:ASP:H	2.29	0.41
36:5:342:A:C2	36:5:368:G:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:998:A:O2'	36:5:999:G:H5'	2.20	0.41
36:5:1077:U:H2'	36:5:1078:U:H6	1.85	0.41
36:5:1221:A:H3'	36:5:1222:G:H5'	2.02	0.41
36:5:1563:C:H2'	36:5:1564:U:O4'	2.20	0.41
36:5:1567:U:H2'	36:5:1568:U:C4'	2.50	0.41
36:5:1725:C:C5'	79:q3:36:ARG:HH12	2.34	0.41
36:5:2568:C:C4	36:5:2574:G:C6	3.09	0.41
36:5:2732:G:H2'	36:5:2733:A:O4'	2.20	0.41
36:5:2877:G:OP1	86:5:4054:OHX:N4	2.53	0.41
36:5:3223:A:C6	36:5:3263:G:C6	3.09	0.41
39:l2:238:ILE:HG22	39:l2:239:ALA:N	2.35	0.41
40:l3:171:LEU:HD21	40:l3:314:TYR:CE2	2.54	0.41
41:l4:98:ARG:HG2	41:l4:99:MET:N	2.35	0.41
42:l5:118:THR:H	42:l5:118:THR:HG22	1.49	0.41
43:l6:72:ASN:HB3	43:l6:160:SER:HA	2.02	0.41
44:l7:191:VAL:HG12	44:l7:192:GLY:N	2.35	0.41
47:m0:200:LEU:HB2	47:m0:213:PHE:CD1	2.56	0.41
52:m6:109:PRO:O	52:m6:110:PRO:O	2.39	0.41
52:m6:147:TRP:CH2	52:m6:150:GLU:HA	2.56	0.41
55:m9:10:LEU:O	55:m9:14:VAL:HG23	2.21	0.41
57:n1:120:LYS:C	57:n1:122:GLN:H	2.28	0.41
68:o2:5:PRO:O	68:o2:6:HIS:CD2	2.74	0.41
71:o5:58:ILE:O	71:o5:61:GLN:HB2	2.21	0.41
72:o6:94:ILE:HD13	72:o6:94:ILE:HA	1.78	0.41
74:o8:16:ARG:O	74:o8:18:ALA:N	2.54	0.41
82:p0:37:GLN:HA	82:p0:104:ARG:HD2	2.02	0.41
82:p0:198:PRO:C	82:p0:200:SER:H	2.29	0.41
83:p1:19:UNK:O	83:p1:21:UNK:N	2.54	0.41
1:2:11:A:C2'	1:2:12:U:H5'	2.50	0.41
1:2:682:C:H2'	1:2:683:C:O4'	2.20	0.41
1:2:765:G:H4'	1:2:766:U:OP1	2.20	0.41
1:2:834:G:C6	1:2:835:U:C4	3.09	0.41
1:2:1087:A:H2'	1:2:1088:A:C8	2.55	0.41
1:2:1105:C:H2'	1:2:1106:U:H6	1.84	0.41
1:2:1226:A:C2	14:C2:116:VAL:HG11	2.56	0.41
1:2:1324:G:OP2	86:2:2084:OHX:N1	2.54	0.41
1:2:1345:A:H2'	1:2:1348:A:H62	1.85	0.41
1:2:1381:U:H1'	1:2:1516:A:N6	2.35	0.41
1:2:1417:A:O2'	18:C6:128:LYS:HE2	2.21	0.41
1:2:1765:A:H5'	1:2:1767:G:N7	2.35	0.41
3:S1:128:LYS:HE2	3:S1:132:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.20	0.41
5:S3:209:ILE:HD12	5:S3:209:ILE:HA	1.85	0.41
7:S5:166:ARG:HD2	30:D8:46:GLY:HA2	2.01	0.41
7:S5:166:ARG:HD3	30:D8:45:LYS:CG	2.50	0.41
7:S5:206:SER:O	7:S5:212:LYS:HE3	2.20	0.41
8:S6:53:SER:O	8:S6:110:ALA:HB3	2.21	0.41
11:S9:49:LEU:HD23	11:S9:104:PHE:CE2	2.56	0.41
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.19	0.41
21:C9:66:TYR:HA	21:C9:124:ILE:HG21	2.02	0.41
21:C9:138:GLN:HA	21:C9:141:GLU:HG2	2.02	0.41
31:D9:31:ILE:HD13	31:D9:31:ILE:HA	1.91	0.41
36:1:1307:G:C2	36:1:1308:A:C2	3.08	0.41
36:1:1764:U:H3'	36:1:1765:U:H4'	2.01	0.41
36:1:2168:A:C6	36:1:2170:U:H1'	2.56	0.41
36:1:2555:G:O2'	70:O4:88:ARG:HB2	2.21	0.41
36:1:2623:G:H2'	36:1:2624:G:C8	2.55	0.41
36:1:2842:U:HO2'	36:1:2843:U:P	2.42	0.41
36:1:3185:U:O2'	56:N0:170:THR:OG1	2.29	0.41
40:L3:163:HIS:ND1	40:L3:164:THR:O	2.53	0.41
41:L4:12:THR:HA	41:L4:171:ALA:HB1	2.03	0.41
41:L4:258:LEU:HD12	41:L4:258:LEU:HA	1.82	0.41
41:L4:358:THR:HA	41:L4:361:HIS:HB2	2.02	0.41
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.82	0.41
49:M3:153:ASP:OD2	49:M3:154:VAL:N	2.47	0.41
52:M6:127:LEU:HD23	52:M6:127:LEU:HA	1.81	0.41
55:M9:104:ARG:HH21	55:M9:108:LYS:HE3	1.85	0.41
56:N0:75:PHE:O	56:N0:94:ILE:N	2.51	0.41
57:N1:122:GLN:C	57:N1:122:GLN:CD	2.89	0.41
59:N3:45:ARG:O	59:N3:47:ASN:N	2.54	0.41
59:N3:49:LEU:HD23	59:N3:49:LEU:HA	1.80	0.41
63:N7:126:LYS:O	63:N7:128:GLN:N	2.44	0.41
68:O2:109:LEU:HD22	68:O2:109:LEU:HA	1.77	0.41
69:O3:24:ASN:C	69:O3:26:ASN:H	2.29	0.41
77:Q1:1:MET:HE2	77:Q1:1:MET:HB2	1.80	0.41
1:6:149:C:H2'	1:6:150:U:C6	2.56	0.41
1:6:180:A:H2'	1:6:181:A:O4'	2.19	0.41
1:6:741:C:O2	9:s7:107:ARG:NH2	2.54	0.41
1:6:1766:A:H5''	86:6:2126:OHX:N3	2.35	0.41
3:s1:146:GLN:H	3:s1:149:GLN:HE21	1.67	0.41
5:s3:60:GLY:O	5:s3:62:ASN:N	2.54	0.41
5:s3:76:ARG:HG2	12:c0:65:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:183:VAL:HG21	6:s4:218:PHE:HE1	1.85	0.41
7:s5:84:LYS:CD	7:s5:92:ARG:HH12	2.34	0.41
10:s8:173:PRO:C	10:s8:175:GLN:H	2.28	0.41
11:s9:30:LEU:HD23	11:s9:30:LEU:HA	1.79	0.41
11:s9:163:PRO:C	11:s9:165:GLY:H	2.29	0.41
13:c1:107:VAL:HA	13:c1:108:PRO:HD2	1.91	0.41
20:c8:101:LEU:HD23	20:c8:101:LEU:HA	1.68	0.41
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.68	0.41
21:c9:126:GLU:H	21:c9:126:GLU:HG2	1.74	0.41
25:d3:24:TRP:HE3	25:d3:30:LYS:HD2	1.85	0.41
26:d4:28:LEU:C	26:d4:29:HIS:HD2	2.29	0.41
36:5:127:G:H2'	36:5:128:G:H8	1.86	0.41
36:5:413:U:H5''	53:m7:34:GLN:OE1	2.20	0.41
36:5:417:A:H2'	36:5:418:A:C8	2.55	0.41
36:5:740:G:C6	36:5:741:U:C4	3.09	0.41
36:5:1388:U:H4'	68:o2:100:ILE:CD1	2.50	0.41
36:5:1556:C:H2'	36:5:2169:G:C6	2.55	0.41
36:5:1656:A:H4'	36:5:1657:C:O5'	2.20	0.41
36:5:1913:A:H8	36:5:1913:A:O5'	2.03	0.41
36:5:2389:C:H1'	53:m7:69:ARG:NH1	2.36	0.41
36:5:2641:U:H5''	36:5:2642:A:OP1	2.20	0.41
36:5:3018:C:C4	36:5:3019:U:C4	3.08	0.41
36:5:3389:U:O4	86:5:4250:OHX:N6	2.53	0.41
40:l3:214:MET:SD	40:l3:281:LYS:HB2	2.61	0.41
40:l3:229:VAL:HG21	40:l3:249:VAL:HG12	2.03	0.41
45:l8:75:ILE:C	45:l8:77:GLN:H	2.29	0.41
52:m6:62:THR:H	52:m6:69:GLY:HA3	1.86	0.41
54:m8:122:ILE:HG23	54:m8:126:GLN:HB2	2.01	0.41
58:n2:59:ASP:OD1	58:n2:60:GLY:N	2.54	0.41
61:n5:73:MET:HE2	61:n5:142:ILE:HA	2.02	0.41
66:o0:17:VAL:HG11	66:o0:92:ILE:HD12	2.02	0.41
71:o5:30:GLU:O	71:o5:34:GLN:HG3	2.21	0.41
1:2:347:G:OP1	13:C1:77:SER:OG	2.24	0.41
1:2:778:G:O6	26:D4:10:ARG:HG3	2.21	0.41
1:2:1031:U:H4'	1:2:1032:G:OP2	2.21	0.41
1:2:1111:G:C6	1:2:1112:G:C4	3.09	0.41
1:2:1151:A:H2'	1:2:1152:A:C8	2.55	0.41
1:2:1665:U:O4	86:2:2136:OHX:N4	2.53	0.41
86:2:2096:OHX:N4	86:2:2110:OHX:N1	2.68	0.41
4:S2:235:LEU:HA	4:S2:236:PRO:HD2	1.94	0.41
5:S3:222:VAL:HG11	34:SR:230:ALA:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:172:ILE:O	7:S5:176:THR:HG23	2.21	0.41
8:S6:119:GLN:HG3	8:S6:120:GLU:N	2.36	0.41
9:S7:155:ASP:O	9:S7:186:PRO:HG3	2.20	0.41
15:C3:89:TYR:CE2	15:C3:150:VAL:HG22	2.55	0.41
18:C6:86:ALA:HB1	18:C6:109:PHE:CE2	2.56	0.41
20:C8:120:ARG:HD2	35:SM:61:ILE:CD1	2.50	0.41
26:D4:104:SER:HB3	26:D4:107:GLN:CG	2.50	0.41
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.50	0.41
36:1:65:A:C8	36:1:110:G:O6	2.73	0.41
36:1:190:U:C4	36:1:224:C:H1'	2.55	0.41
36:1:282:G:C8	36:1:282:G:H3'	2.56	0.41
36:1:426:G:C6	36:1:427:C:N4	2.89	0.41
36:1:561:C:O2'	36:1:562:C:H5'	2.20	0.41
36:1:1094:U:H1'	36:1:1096:U:O2'	2.21	0.41
36:1:1113:G:OP2	86:1:4071:OHX:N1	2.54	0.41
36:1:1520:G:O2'	61:N5:71:THR:HG21	2.20	0.41
36:1:1549:U:H2'	36:1:1550:C:C6	2.56	0.41
36:1:1758:G:N2	36:1:1768:U:C2	2.89	0.41
36:1:1877:U:OP2	86:1:3924:OHX:N2	2.54	0.41
36:1:2242:A:H5''	39:L2:244:GLY:HA3	2.01	0.41
36:1:2259:A:OP2	86:1:3930:OHX:N2	2.53	0.41
36:1:3027:A:H2'	36:1:3028:G:O4'	2.21	0.41
36:1:3348:G:H2'	36:1:3349:C:C6	2.55	0.41
37:3:11:A:N6	42:L5:13:SER:O	2.53	0.41
39:L2:4:VAL:CG1	39:L2:8:GLN:HB2	2.51	0.41
40:L3:287:LYS:HA	40:L3:287:LYS:HD3	1.91	0.41
41:L4:187:LEU:HD23	41:L4:187:LEU:HA	1.79	0.41
42:L5:51:LEU:HB2	42:L5:144:VAL:HG13	2.02	0.41
42:L5:95:TRP:O	42:L5:98:ALA:HB3	2.21	0.41
45:L8:73:PRO:HD3	45:L8:233:TRP:CD2	2.55	0.41
47:M0:188:GLY:O	47:M0:190:VAL:N	2.44	0.41
49:M3:165:SER:O	64:N8:135:GLU:CD	2.63	0.41
50:M4:72:LEU:HA	50:M4:73:PRO:HD3	1.88	0.41
52:M6:141:LEU:O	52:M6:144:SER:HB3	2.20	0.41
55:M9:132:PHE:CZ	55:M9:138:LEU:HD23	2.55	0.41
56:N0:79:VAL:HG21	56:N0:106:LEU:HD21	2.02	0.41
61:N5:114:VAL:HB	75:O9:10:LYS:NZ	2.35	0.41
70:O4:99:LYS:HG2	70:O4:103:LYS:NZ	2.35	0.41
75:O9:23:LEU:HA	75:O9:23:LEU:HD22	1.78	0.41
75:O9:31:THR:O	75:O9:32:ASN:HB2	2.21	0.41
1:6:95:G:H4'	6:s4:8:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:138:A:N6	1:6:266:A:H61	2.18	0.41
1:6:168:A:C6	1:6:169:A:N6	2.88	0.41
1:6:324:U:O2'	13:c1:80:MET:CE	2.68	0.41
1:6:530:C:O2	26:d4:61:ARG:NH2	2.53	0.41
4:s2:88:LYS:HD3	4:s2:89:GLN:H	1.84	0.41
5:s3:177:MET:HG3	5:s3:178:ARG:H	1.86	0.41
9:s7:17:GLU:OE2	9:s7:46:ILE:N	2.53	0.41
10:s8:26:LYS:C	10:s8:28:GLU:N	2.78	0.41
12:c0:32:HIS:HB3	12:c0:34:GLU:O	2.21	0.41
22:d0:96:PRO:HB2	22:d0:97:VAL:H	1.48	0.41
26:d4:89:TYR:HE1	26:d4:93:ARG:NH1	2.19	0.41
80:e0:41:THR:O	80:e0:46:ASN:HB3	2.20	0.41
36:5:441:U:H2'	36:5:442:G:C8	2.56	0.41
36:5:576:C:OP1	44:l7:241:LYS:NZ	2.54	0.41
36:5:685:G:N2	36:5:696:C:C2	2.88	0.41
36:5:1157:G:C2	36:5:1158:A:H1'	2.55	0.41
36:5:1256:G:O6	36:5:1261:G:N2	2.54	0.41
36:5:1570:U:O2'	36:5:1571:A:O4'	2.34	0.41
36:5:1950:U:H2'	36:5:1951:C:C6	2.56	0.41
36:5:2180:G:C6	36:5:2181:C:N4	2.88	0.41
36:5:2542:U:H1'	36:5:2543:U:C5	2.55	0.41
36:5:3107:U:P	76:q0:112:LYS:NZ	2.94	0.41
36:5:3186:A:N3	46:l9:44:THR:HG22	2.36	0.41
36:5:3238:G:N2	36:5:3250:U:H1'	2.35	0.41
36:5:3275:U:H4'	36:5:3276:G:OP2	2.17	0.41
38:8:29:U:H2'	38:8:30:C:H6	1.86	0.41
40:l3:4:ARG:NH1	40:l3:6:TYR:O	2.54	0.41
40:l3:380:MET:HE2	40:l3:380:MET:HB3	1.70	0.41
41:l4:128:ALA:HB1	41:l4:134:LEU:HD12	2.02	0.41
42:l5:88:ILE:HD12	42:l5:240:TYR:CE1	2.55	0.41
51:m5:23:GLN:HG2	51:m5:122:ASN:OD1	2.20	0.41
55:m9:184:LEU:O	55:m9:185:LEU:HD23	2.20	0.41
62:n6:52:ARG:HA	62:n6:70:ILE:HG22	2.02	0.41
63:n7:77:TYR:CD2	66:o0:35:ARG:HD2	2.53	0.41
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.24	0.41
66:o0:87:VAL:HG23	66:o0:89:VAL:H	1.85	0.41
68:o2:33:ARG:HD3	68:o2:33:ARG:HA	1.78	0.41
73:o7:45:ARG:HH11	73:o7:45:ARG:HD2	1.72	0.41
76:q0:82:LEU:HD23	76:q0:82:LEU:HA	1.76	0.41
1:2:245:U:O4	86:2:2094:OHX:N5	2.54	0.41
1:2:448:C:C2	1:2:449:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:738:G:O6	86:2:2098:OHX:N1	2.54	0.41
1:2:761:G:H4'	11:S9:72:GLU:OE1	2.20	0.41
1:2:1211:A:H1'	17:C5:99:GLY:O	2.21	0.41
1:2:1317:C:O2	1:2:1400:A:H2	2.03	0.41
1:2:1482:C:OP2	1:2:1521:G:N1	2.52	0.41
1:2:1545:A:OP2	20:C8:136:GLN:NE2	2.52	0.41
1:2:1648:A:H4'	32:E0:4:VAL:HG21	2.03	0.41
1:2:1719:A:N6	1:2:1720:G:C2	2.87	0.41
2:S0:72:ASP:HB2	2:S0:118:PRO:HA	2.02	0.41
2:S0:173:ILE:HG12	2:S0:173:ILE:H	1.76	0.41
3:S1:39:GLU:O	3:S1:40:ASN:C	2.64	0.41
5:S3:142:LEU:C	5:S3:144:ALA:H	2.29	0.41
7:S5:25:LEU:HB2	7:S5:26:ALA:H	1.58	0.41
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.90	0.41
20:C8:60:GLU:HB2	20:C8:61:LEU:H	1.62	0.41
21:C9:135:ILE:HA	21:C9:138:GLN:HB2	2.01	0.41
22:D0:17:GLN:OE1	22:D0:96:PRO:HB2	2.21	0.41
22:D0:23:ARG:HD3	22:D0:92:ASP:OD1	2.21	0.41
23:D1:46:ILE:H	23:D1:46:ILE:HG13	1.67	0.41
34:SR:37:SER:C	34:SR:39:ASP:H	2.28	0.41
36:1:140:C:O2'	36:1:141:C:H5'	2.20	0.41
36:1:835:G:N3	36:1:857:G:C2	2.89	0.41
36:1:1213:G:C2	36:1:1293:U:C2	3.08	0.41
36:1:1246:G:H8	36:1:1246:G:OP1	2.03	0.41
36:1:1295:G:H2'	36:1:1296:C:C6	2.56	0.41
36:1:1331:U:OP2	36:1:1332:A:N6	2.49	0.41
36:1:1547:G:P	51:M5:105:ARG:NH1	2.93	0.41
36:1:2191:U:H2'	36:1:2192:C:O4'	2.21	0.41
36:1:2369:G:H2'	36:1:2370:G:O4'	2.19	0.41
36:1:3043:C:P	59:N3:48:ARG:NH2	2.92	0.41
36:1:3213:A:C2'	36:1:3214:U:H5'	2.51	0.41
86:1:3945:OHX:N2	52:M6:67:THR:HG21	2.36	0.41
38:4:5:U:H2'	38:4:6:U:O4'	2.21	0.41
40:L3:178:LEU:HD12	40:L3:179:ALA:H	1.84	0.41
41:L4:334:PHE:CD2	41:L4:334:PHE:C	2.99	0.41
46:L9:68:LEU:HD23	46:L9:68:LEU:HA	1.75	0.41
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	2.03	0.41
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.56	0.41
48:M1:139:THR:CG2	48:M1:147:THR:HA	2.42	0.41
49:M3:108:ILE:O	49:M3:111:ALA:HB3	2.21	0.41
50:M4:53:VAL:HA	50:M4:54:PRO:HD3	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:155:VAL:O	51:M5:162:ARG:NH2	2.52	0.41
53:M7:16:SER:HB3	53:M7:149:VAL:HG22	2.03	0.41
54:M8:67:ILE:HG12	54:M8:81:VAL:HG21	2.03	0.41
54:M8:120:GLU:CD	54:M8:130:ARG:HH22	2.28	0.41
64:N8:43:ILE:HG21	64:N8:43:ILE:HD13	1.76	0.41
64:N8:72:VAL:HG11	64:N8:113:LEU:HD11	2.02	0.41
69:O3:48:ARG:HG2	69:O3:48:ARG:HH11	1.86	0.41
71:O5:84:LYS:HB3	71:O5:85:THR:H	1.53	0.41
72:O6:97:SER:OG	72:O6:98:ARG:N	2.51	0.41
75:O9:9:ILE:HG22	75:O9:13:MET:CE	2.51	0.41
1:6:604:A:OP2	86:6:2150:OHX:N4	2.54	0.41
1:6:768:C:C2	11:s9:143:ILE:HD13	2.56	0.41
1:6:836:U:H2'	1:6:837:G:C8	2.56	0.41
1:6:846:G:H21	13:c1:46:LYS:HE2	1.85	0.41
1:6:1185:U:O2'	1:6:1456:C:H5''	2.21	0.41
1:6:1571:C:H5''	1:6:1572:G:OP2	2.21	0.41
4:s2:133:LYS:C	4:s2:135:SER:H	2.29	0.41
5:s3:115:ILE:H	5:s3:115:ILE:HG13	1.46	0.41
6:s4:23:LEU:HD13	6:s4:23:LEU:N	2.35	0.41
7:s5:162:VAL:HG22	7:s5:167:ARG:HD3	2.02	0.41
10:s8:194:ARG:HD2	10:s8:195:ARG:NH1	2.34	0.41
15:c3:3:ARG:NH1	15:c3:3:ARG:HG2	2.35	0.41
18:c6:32:ASN:OD1	18:c6:68:ARG:HA	2.20	0.41
20:c8:86:LEU:HA	20:c8:99:HIS:ND1	2.36	0.41
36:5:23:A:H2'	36:5:24:G:O4'	2.21	0.41
36:5:1060:U:H2'	36:5:1061:A:H8	1.86	0.41
36:5:1281:G:H5'	82:p0:55:LYS:HG3	2.03	0.41
36:5:1598:G:O2'	36:5:1599:G:H5'	2.21	0.41
36:5:1798:A:H2'	36:5:1799:A:C8	2.55	0.41
36:5:2112:U:C4'	36:5:2113:A:H5'	2.50	0.41
36:5:2573:G:H2'	36:5:2574:G:O4'	2.20	0.41
36:5:2590:A:C5	36:5:2591:A:C8	3.09	0.41
36:5:3065:G:O6	86:5:4105:OHX:N6	2.54	0.41
36:5:3279:A:N6	36:5:3280:U:C4	2.89	0.41
86:5:3907:OHX:N2	73:o7:46:SER:OG	2.53	0.41
38:8:43:A:OP1	86:8:228:OHX:N3	2.53	0.41
86:8:228:OHX:N1	86:o7:503:OHX:N4	2.68	0.41
39:l2:70:ARG:NH1	39:l2:72:ARG:HH21	2.19	0.41
39:l2:137:ILE:HG13	39:l2:138:GLY:N	2.30	0.41
40:l3:291:GLU:HB2	40:l3:302:LYS:HE2	2.02	0.41
45:l8:81:THR:O	45:l8:82:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:99:ILE:H	47:m0:99:ILE:HG13	1.72	0.41
48:m1:93:ASP:C	48:m1:94:ARG:O	2.63	0.41
53:m7:64:ASN:O	53:m7:67:ILE:HG12	2.20	0.41
55:m9:4:LEU:O	55:m9:5:ARG:C	2.64	0.41
55:m9:37:SER:OG	55:m9:38:ARG:N	2.53	0.41
56:n0:59:VAL:HG13	57:n1:141:VAL:HG21	2.02	0.41
57:n1:14:MET:HE1	57:n1:55:LYS:O	2.21	0.41
61:n5:72:ALA:O	61:n5:75:LYS:HB2	2.21	0.41
69:o3:102:LEU:HA	69:o3:102:LEU:HD23	1.73	0.41
71:o5:42:PRO:C	71:o5:44:ILE:H	2.29	0.41
76:q0:106:ARG:NH1	76:q0:106:ARG:HB2	2.36	0.41
1:2:40:A:H2'	1:2:41:A:O4'	2.21	0.41
1:2:45:U:O2	1:2:434:G:H1'	2.21	0.41
1:2:59:C:H1'	1:2:60:U:C5	2.56	0.41
1:2:72:A:C3'	1:2:73:U:H5''	2.51	0.41
1:2:116:U:O2	1:2:333:A:H2	2.04	0.41
1:2:186:C:H3'	1:2:187:G:C8	2.55	0.41
1:2:239:C:H6	1:2:239:C:H2'	1.62	0.41
1:2:279:G:N7	1:2:281:G:C8	2.89	0.41
1:2:285:G:N2	1:2:286:C:C2	2.89	0.41
1:2:434:G:N7	86:2:2049:OHX:N4	2.68	0.41
1:2:466:U:C4	1:2:467:G:C5	3.09	0.41
1:2:607:G:H5'	1:2:613:G:N2	2.36	0.41
1:2:704:C:H4'	1:2:705:U:OP1	2.21	0.41
1:2:728:U:O2	1:2:728:U:H2'	2.21	0.41
1:2:735:C:O2'	1:2:736:C:OP2	2.32	0.41
1:2:1232:U:H4'	12:C0:2:LEU:HD21	2.02	0.41
1:2:1311:U:O2'	1:2:1313:A:N7	2.45	0.41
1:2:1321:A:OP2	2:S0:101:ARG:NH2	2.46	0.41
1:2:1530:C:OP2	27:D5:95:HIS:CD2	2.74	0.41
1:2:1594:G:H5''	31:D9:33:LYS:HG3	2.03	0.41
1:2:1673:G:C5	1:2:1674:C:C5	3.08	0.41
2:S0:32:HIS:ND1	2:S0:32:HIS:O	2.50	0.41
2:S0:103:THR:HA	2:S0:104:PRO:HD3	1.70	0.41
2:S0:110:TYR:O	2:S0:112:THR:N	2.53	0.41
3:S1:62:LYS:HB2	3:S1:62:LYS:HZ3	1.86	0.41
3:S1:109:LYS:HE3	3:S1:113:MET:HE3	2.03	0.41
3:S1:179:SER:HB3	3:S1:183:GLN:OE1	2.19	0.41
3:S1:180:THR:HG22	3:S1:181:LEU:HD13	2.02	0.41
5:S3:20:GLU:OE2	5:S3:76:ARG:NH2	2.52	0.41
7:S5:32:GLU:CD	7:S5:32:GLU:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:189:THR:OG1	27:D5:98:GLN:OE1	2.35	0.41
7:S5:224:ASN:HD22	7:S5:224:ASN:HA	1.51	0.41
8:S6:137:ARG:O	8:S6:141:ILE:HD12	2.20	0.41
9:S7:30:SER:HB2	9:S7:34:LEU:O	2.21	0.41
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.86	0.41
13:C1:13:PHE:CD2	13:C1:15:LYS:HD2	2.56	0.41
13:C1:72:THR:O	13:C1:88:ARG:HD2	2.20	0.41
17:C5:16:SER:HB3	17:C5:21:ASP:OD1	2.21	0.41
17:C5:110:GLU:HG3	20:C8:119:ILE:HD11	2.03	0.41
18:C6:47:LYS:HD2	18:C6:47:LYS:HA	1.79	0.41
19:C7:19:ARG:HG3	19:C7:20:TYR:CE1	2.55	0.41
21:C9:23:GLN:HG2	21:C9:55:TYR:CG	2.56	0.41
25:D3:59:ILE:HD12	32:E0:4:VAL:HG13	2.02	0.41
27:D5:95:HIS:CG	27:D5:96:SER:N	2.84	0.41
28:D6:58:VAL:HG22	28:D6:59:TYR:N	2.36	0.41
28:D6:89:ARG:O	28:D6:92:ARG:HB2	2.21	0.41
31:D9:25:SER:HB3	86:D9:102:OHX:N3	2.36	0.41
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	2.02	0.41
34:SR:85:TRP:N	34:SR:85:TRP:CD1	2.89	0.41
34:SR:273:ASP:CG	34:SR:275:ARG:HH12	2.28	0.41
35:SM:102:THR:CG2	35:SM:105:LYS:HB2	2.51	0.41
36:1:73:C:C4	72:O6:15:LYS:HD3	2.56	0.41
36:1:304:G:N1	64:N8:62:HIS:CE1	2.89	0.41
36:1:507:U:O2'	36:1:1166:G:H4'	2.21	0.41
36:1:597:G:H2'	36:1:598:A:C8	2.51	0.41
36:1:639:G:OP1	68:O2:37:GLY:HA3	2.20	0.41
36:1:727:G:H2'	36:1:728:G:O4'	2.20	0.41
36:1:729:C:H2'	36:1:730:C:C6	2.56	0.41
36:1:1075:A:C6	65:N9:45:HIS:CE1	3.09	0.41
36:1:1080:A:OP1	42:L5:140:ARG:NH2	2.54	0.41
36:1:1149:G:H5''	36:1:1150:A:C5'	2.51	0.41
36:1:1496:C:C2	36:1:1521:G:N2	2.89	0.41
36:1:1571:A:H2'	36:1:1572:U:O4'	2.19	0.41
36:1:1609:C:H2'	36:1:1610:G:C8	2.56	0.41
36:1:1713:G:O6	66:O0:28:LYS:HD3	2.20	0.41
36:1:1722:U:OP1	55:M9:100:ARG:HD3	2.21	0.41
36:1:1807:G:H5'	63:N7:135:ARG:HH22	1.85	0.41
36:1:1807:G:C6	36:1:1808:G:C6	3.08	0.41
36:1:1944:U:H2'	36:1:1945:A:C8	2.55	0.41
36:1:2284:C:N4	36:1:2308:C:OP2	2.51	0.41
36:1:2564:G:C6	36:1:2565:U:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2655:U:H2'	78:Q2:3:ASN:O	2.20	0.41
36:1:3000:A:C2	36:1:3149:G:C5	3.08	0.41
86:1:4083:OHX:N4	55:M9:14:VAL:O	2.54	0.41
37:3:27:A:H2'	37:3:28:C:C6	2.56	0.41
37:3:85:G:O6	86:3:216:OHX:N4	2.54	0.41
38:4:122:U:H2'	38:4:123:G:H8	1.85	0.41
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.60	0.41
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	2.02	0.41
41:L4:286:VAL:HA	41:L4:289:ILE:HG13	2.02	0.41
42:L5:104:LEU:HD21	42:L5:108:ARG:NH2	2.36	0.41
42:L5:148:ILE:HG21	42:L5:148:ILE:HD13	1.78	0.41
44:L7:92:ILE:HA	44:L7:92:ILE:HD12	1.60	0.41
45:L8:156:ASP:HB2	45:L8:157:VAL:H	1.60	0.41
45:L8:159:PRO:C	45:L8:161:GLU:N	2.77	0.41
46:L9:46:THR:HG22	46:L9:47:LYS:O	2.21	0.41
46:L9:91:ARG:HG3	46:L9:91:ARG:NH2	2.35	0.41
46:L9:93:VAL:O	46:L9:177:ASP:HA	2.20	0.41
46:L9:165:CYS:SG	46:L9:179:ILE:HD12	2.61	0.41
48:M1:30:LEU:HD21	48:M1:67:VAL:HG13	2.03	0.41
49:M3:52:ASP:OD1	49:M3:52:ASP:N	2.53	0.41
51:M5:143:ARG:NH2	71:O5:90:ARG:O	2.53	0.41
52:M6:121:PRO:HD2	56:N0:162:THR:O	2.21	0.41
55:M9:105:LEU:HD11	55:M9:139:VAL:HG23	2.03	0.41
55:M9:106:LEU:HD12	55:M9:106:LEU:HA	1.66	0.41
55:M9:110:ARG:HA	55:M9:115:ILE:HG22	2.02	0.41
56:N0:1:MET:O	56:N0:2:ALA:HB2	2.21	0.41
59:N3:45:ARG:HB3	59:N3:48:ARG:HG3	2.02	0.41
59:N3:82:ALA:HA	59:N3:95:PHE:O	2.21	0.41
59:N3:109:MET:HB3	59:N3:109:MET:HE3	1.78	0.41
60:N4:45:ASN:O	60:N4:46:PRO:C	2.63	0.41
63:N7:41:ALA:HB2	63:N7:77:TYR:HE1	1.86	0.41
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.20	0.41
64:N8:40:HIS:CD2	64:N8:41:HIS:CE1	3.08	0.41
69:O3:49:ILE:HG23	69:O3:100:ILE:HG13	2.02	0.41
70:O4:81:CYS:O	70:O4:81:CYS:SG	2.79	0.41
71:O5:4:VAL:HG13	71:O5:50:SER:OG	2.21	0.41
71:O5:24:LEU:HD23	71:O5:24:LEU:HA	1.68	0.41
1:6:150:U:H2'	1:6:151:G:O4'	2.21	0.41
1:6:188:A:H3'	1:6:189:C:H6	1.86	0.41
1:6:532:U:H2'	1:6:533:U:O4'	2.20	0.41
1:6:538:A:C8	1:6:543:C:H5	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:680:U:HO2'	1:6:681:U:P	2.41	0.41
1:6:799:A:H2'	1:6:800:U:O4'	2.20	0.41
1:6:805:U:H2'	1:6:806:A:H5'	2.03	0.41
1:6:895:G:C5	1:6:896:U:C4	3.09	0.41
1:6:955:A:OP1	15:c3:3:ARG:NH1	2.54	0.41
1:6:1046:G:C6	1:6:1047:G:N7	2.89	0.41
1:6:1179:G:C6	1:6:1180:C:N3	2.89	0.41
1:6:1534:G:H4'	1:6:1536:G:O6	2.21	0.41
1:6:1553:G:O6	17:c5:43:ARG:HD3	2.20	0.41
1:6:1556:A:H5''	17:c5:115:TYR:CZ	2.56	0.41
2:s0:74:VAL:CG2	2:s0:118:PRO:HB3	2.50	0.41
3:s1:38:PHE:HB3	3:s1:73:LEU:HD12	2.03	0.41
3:s1:70:LEU:HG	3:s1:84:ILE:HD11	2.02	0.41
3:s1:131:ASP:OD1	3:s1:131:ASP:N	2.50	0.41
4:s2:44:LEU:HD21	4:s2:247:ALA:HB2	2.03	0.41
5:s3:115:ILE:HD12	5:s3:116:ARG:H	1.85	0.41
5:s3:141:LYS:H	5:s3:141:LYS:HG2	1.72	0.41
6:s4:95:THR:OG1	6:s4:97:GLU:OE2	2.28	0.41
6:s4:105:VAL:HG11	6:s4:245:LYS:H	1.86	0.41
6:s4:148:ARG:H	6:s4:148:ARG:HG2	1.51	0.41
7:s5:43:PHE:N	7:s5:46:TRP:H	2.19	0.41
7:s5:73:THR:O	7:s5:75:GLY:N	2.48	0.41
9:s7:16:LEU:O	9:s7:20:VAL:HG23	2.21	0.41
9:s7:28:GLU:CD	9:s7:35:LYS:HG2	2.45	0.41
9:s7:39:ARG:NH1	55:m9:189:ALA:HB2	2.36	0.41
9:s7:97:ARG:HG2	9:s7:97:ARG:NH1	2.36	0.41
10:s8:76:THR:CG2	10:s8:105:ASP:HB3	2.50	0.41
11:s9:54:ARG:HE	11:s9:54:ARG:HB3	1.59	0.41
13:c1:111:VAL:HG13	13:c1:111:VAL:O	2.21	0.41
16:c4:20:TYR:HB3	16:c4:27:PHE:HB2	2.02	0.41
16:c4:77:THR:O	16:c4:110:LEU:HD23	2.21	0.41
16:c4:131:GLY:O	16:c4:133:ARG:N	2.54	0.41
20:c8:42:TYR:HA	20:c8:85:PHE:HE1	1.85	0.41
23:d1:9:VAL:HG13	23:d1:10:GLU:N	2.36	0.41
24:d2:15:ASN:O	24:d2:19:LYS:HG3	2.21	0.41
26:d4:63:GLN:HG3	26:d4:64:PHE:O	2.20	0.41
26:d4:86:GLU:CD	26:d4:90:ARG:HH11	2.29	0.41
27:d5:85:LYS:HG3	27:d5:86:GLU:N	2.23	0.41
27:d5:85:LYS:HB3	27:d5:87:GLY:CA	2.51	0.41
28:d6:10:ARG:HH21	28:d6:10:ARG:CG	2.34	0.41
31:d9:15:GLY:C	31:d9:17:GLY:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:e1:130:VAL:O	33:e1:131:PHE:HB2	2.20	0.41
34:sR:16:HIS:ND1	34:sR:39:ASP:OD2	2.36	0.41
34:sR:232:TYR:OH	34:sR:265:LEU:HD22	2.21	0.41
34:sR:274:LEU:HD22	34:sR:313:TRP:CD1	2.55	0.41
36:5:114:A:H2'	36:5:115:A:O4'	2.20	0.41
36:5:252:U:H4'	36:5:253:A:H5'	2.03	0.41
36:5:620:U:H5''	36:5:621:A:H8	1.85	0.41
36:5:698:U:H2'	36:5:699:A:O4'	2.20	0.41
36:5:822:G:C6	36:5:823:C:C4	3.09	0.41
36:5:879:U:O2	36:5:2357:A:H1'	2.21	0.41
36:5:937:G:N3	36:5:963:G:H1'	2.36	0.41
36:5:975:C:H2'	36:5:976:U:H6	1.86	0.41
36:5:1100:U:OP2	44:l7:196:LYS:HE2	2.21	0.41
36:5:1120:A:C2	36:5:1139:G:C2	3.09	0.41
36:5:1152:G:H8	36:5:1152:G:P	2.44	0.41
36:5:1162:U:H4'	68:o2:57:TYR:CE1	2.56	0.41
36:5:1560:G:O2'	36:5:1561:G:P	2.79	0.41
36:5:1731:A:C5	36:5:1732:U:C5	3.09	0.41
36:5:1817:G:O2'	36:5:1818:U:OP2	2.36	0.41
36:5:2523:A:H4'	36:5:2524:A:OP2	2.19	0.41
36:5:2683:U:O2	36:5:2683:U:H2'	2.21	0.41
36:5:2733:A:H2'	36:5:2734:A:O4'	2.21	0.41
36:5:2741:C:H2'	36:5:2742:C:O4'	2.21	0.41
36:5:2769:A:H2'	36:5:2770:G:O4'	2.21	0.41
36:5:2859:U:O2'	86:5:3902:OHX:N2	2.54	0.41
36:5:2903:A:H2'	36:5:2904:U:O4'	2.20	0.41
36:5:2943:G:H2'	36:5:2944:U:O4'	2.21	0.41
36:5:3013:U:H2'	36:5:3014:U:C6	2.56	0.41
36:5:3215:A:H5'	50:m4:121:MET:HE1	2.03	0.41
36:5:3275:U:H3'	36:5:3276:G:C5	2.56	0.41
36:5:3333:G:O2'	60:n4:50:ALA:HB3	2.21	0.41
86:5:4033:OHX:N1	86:5:4081:OHX:N2	2.68	0.41
37:7:28:C:H5''	48:m1:137:ARG:HG2	2.01	0.41
38:8:131:A:H5''	61:n5:93:TYR:CE2	2.56	0.41
86:8:228:OHX:N5	86:o7:503:OHX:N6	2.68	0.41
39:l2:62:VAL:HA	39:l2:73:GLU:HA	2.02	0.41
40:l3:77:THR:HG23	40:l3:326:GLY:O	2.21	0.41
40:l3:252:ILE:HA	40:l3:252:ILE:HD12	1.39	0.41
41:l4:217:LYS:HE2	41:l4:220:ARG:HH22	1.84	0.41
41:l4:217:LYS:HE2	41:l4:220:ARG:NH2	2.36	0.41
41:l4:281:ILE:HD12	54:m8:29:LEU:HG	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:341:SER:O	41:l4:342:LYS:CB	2.69	0.41
42:l5:257:GLU:N	42:l5:257:GLU:OE2	2.54	0.41
42:l5:257:GLU:C	42:l5:258:LYS:HD3	2.46	0.41
43:l6:34:LEU:HD23	43:l6:86:ALA:HB2	2.03	0.41
44:l7:137:GLY:HA3	44:l7:236:ILE:HB	2.03	0.41
44:l7:188:ILE:HA	44:l7:188:ILE:HD13	1.79	0.41
47:m0:26:VAL:HA	47:m0:27:PRO:HD2	1.77	0.41
48:m1:28:ASP:OD2	48:m1:32:ARG:NH2	2.37	0.41
51:m5:160:GLU:H	51:m5:160:GLU:CD	2.29	0.41
52:m6:125:ARG:HH11	52:m6:125:ARG:HD3	1.65	0.41
56:n0:26:ARG:HB3	57:n1:150:THR:HB	2.03	0.41
61:n5:38:LEU:HD13	61:n5:40:LEU:HD22	2.01	0.41
61:n5:53:HIS:ND1	61:n5:54:TYR:O	2.48	0.41
61:n5:110:VAL:C	61:n5:111:ASN:HD22	2.29	0.41
64:n8:13:GLY:O	68:o2:36:LYS:HE2	2.21	0.41
65:n9:32:LEU:HD23	65:n9:32:LEU:HA	1.83	0.41
70:o4:38:LEU:H	70:o4:38:LEU:HG	1.56	0.41
70:o4:78:GLY:O	70:o4:80:ARG:N	2.54	0.41
71:o5:28:LEU:O	71:o5:31:LEU:N	2.54	0.41
71:o5:100:VAL:HG13	71:o5:101:THR:O	2.20	0.41
73:o7:18:LEU:HD11	75:o9:51:ILE:HG22	2.03	0.41
78:q2:73:GLU:HG3	78:q2:80:ARG:NH1	2.36	0.41
1:2:260:U:H3'	1:2:261:U:C5'	2.51	0.41
1:2:1215:C:OP1	86:2:2151:OHX:N4	2.55	0.41
1:2:1240:U:O4	17:C5:59:LYS:NZ	2.50	0.41
1:2:1274:C:H5	35:SM:96:ARG:H	1.69	0.41
1:2:1334:U:H2'	1:2:1335:U:H6	1.85	0.41
1:2:1560:U:C4	1:2:1561:U:C4	3.09	0.41
1:2:1635:A:H8	1:2:1635:A:O5'	2.04	0.41
86:2:2096:OHX:N3	86:2:2110:OHX:N1	2.68	0.41
2:S0:120:LEU:HD12	2:S0:121:VAL:N	2.35	0.41
3:S1:30:PHE:CZ	3:S1:94:LYS:HA	2.56	0.41
5:S3:74:GLN:NE2	5:S3:81:PRO:HA	2.34	0.41
7:S5:41:LYS:HD2	7:S5:41:LYS:HA	1.88	0.41
8:S6:160:ARG:HD3	60:N4:84:GLY:HA3	2.02	0.41
9:S7:56:LYS:HB2	9:S7:88:ARG:HD3	2.03	0.41
10:S8:114:GLU:HG2	10:S8:120:THR:HA	2.03	0.41
11:S9:102:GLU:HA	11:S9:105:LEU:HB2	2.03	0.41
17:C5:86:VAL:O	17:C5:89:MET:HG3	2.21	0.41
21:C9:70:GLN:OE1	21:C9:119:LYS:HE3	2.21	0.41
22:D0:20:ILE:HG13	22:D0:95:ALA:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:104:THR:HG22	22:D0:116:VAL:HG21	2.02	0.41
31:D9:10:HIS:CD2	31:D9:10:HIS:C	2.99	0.41
34:SR:205:SER:OG	34:SR:210:LEU:HB2	2.21	0.41
35:SM:64:LYS:CD	35:SM:64:LYS:H	2.33	0.41
36:1:118:U:C5	36:1:119:U:C4	3.09	0.41
36:1:409:A:OP2	86:1:4055:OHX:N5	2.53	0.41
36:1:968:G:H2'	36:1:969:C:C6	2.56	0.41
36:1:994:G:N2	36:1:995:U:O4	2.51	0.41
36:1:1650:G:H5''	39:L2:70:ARG:HB3	2.03	0.41
36:1:2413:A:H2'	36:1:2414:G:C8	2.56	0.41
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.21	0.41
36:1:3279:A:N6	36:1:3280:U:O4	2.54	0.41
86:1:4026:OHX:N4	86:1:4146:OHX:N1	2.69	0.41
41:L4:39:PHE:CD2	41:L4:39:PHE:C	2.98	0.41
45:L8:82:LEU:HD13	45:L8:82:LEU:HA	1.89	0.41
46:L9:92:TYR:CD1	46:L9:92:TYR:N	2.88	0.41
49:M3:57:VAL:HG12	49:M3:69:VAL:HG22	2.03	0.41
51:M5:135:VAL:CG1	51:M5:142:ILE:HG12	2.51	0.41
54:M8:162:ALA:HA	54:M8:163:PRO:HD2	1.67	0.41
55:M9:158:GLU:O	55:M9:161:ALA:HB3	2.21	0.41
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.56	0.41
63:N7:4:PHE:CE1	63:N7:82:PRO:HG3	2.57	0.41
69:O3:23:ASN:OD1	69:O3:23:ASN:C	2.64	0.41
1:6:519:C:C4	1:6:534:A:C8	3.09	0.41
1:6:1340:U:O2	1:6:1340:U:H2'	2.21	0.41
1:6:1541:G:C6	1:6:1542:G:C6	3.09	0.41
6:s4:32:SER:HB2	6:s4:83:PRO:HD3	2.02	0.41
10:s8:161:SER:OG	36:5:3353:G:OP1	2.39	0.41
11:s9:118:LEU:HD12	11:s9:118:LEU:H	1.85	0.41
15:c3:26:PHE:CE2	15:c3:66:ILE:HD12	2.56	0.41
15:c3:65:VAL:HG23	15:c3:66:ILE:CG2	2.51	0.41
16:c4:62:LEU:HA	16:c4:65:GLN:HG3	2.03	0.41
25:d3:46:SER:OG	25:d3:78:LYS:NZ	2.50	0.41
26:d4:29:HIS:HB2	26:d4:67:GLY:HA2	2.03	0.41
36:5:107:A:C2	36:5:108:A:C4	3.08	0.41
36:5:279:U:H2'	36:5:280:U:H6	1.86	0.41
36:5:553:U:H2'	36:5:554:A:O4'	2.21	0.41
36:5:801:A:OP1	64:n8:27:LYS:NZ	2.45	0.41
36:5:1013:G:C2	36:5:1014:U:H1'	2.56	0.41
36:5:2203:U:H4'	39:l2:241:ARG:HA	2.02	0.41
36:5:2349:U:H5'	36:5:2391:G:OP1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2556:C:OP1	70:o4:88:ARG:NH1	2.53	0.41
36:5:2902:A:P	46:l9:170:LYS:HE3	2.61	0.41
36:5:2921:U:H5''	36:5:2922:G:OP2	2.20	0.41
38:8:6:U:H2'	38:8:7:U:C6	2.56	0.41
38:8:92:A:H2'	38:8:93:U:O4'	2.21	0.41
38:8:97:A:C2	38:8:98:U:C2	3.09	0.41
40:l3:258:ALA:O	40:l3:259:HIS:CD2	2.74	0.41
41:l4:16:THR:HG23	41:l4:18:ASN:N	2.36	0.41
41:l4:288:ARG:O	41:l4:289:ILE:C	2.64	0.41
44:l7:68:ASP:O	44:l7:71:ALA:HB3	2.21	0.41
44:l7:90:LYS:HD3	44:l7:220:PHE:CZ	2.56	0.41
54:m8:50:LYS:O	54:m8:52:LEU:N	2.54	0.41
56:n0:93:GLU:OE1	56:n0:135:VAL:HG13	2.21	0.41
62:n6:24:SER:OG	62:n6:75:ARG:NH1	2.43	0.41
72:o6:51:SER:OG	72:o6:54:GLU:HG3	2.21	0.41
77:q1:23:ARG:O	86:q1:102:OHX:N2	2.54	0.41
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.46	0.40
1:2:327:U:H2'	1:2:328:A:H8	1.86	0.40
1:2:461:G:H2'	1:2:462:G:H8	1.83	0.40
1:2:609:U:H4'	1:2:610:G:O5'	2.21	0.40
1:2:621:A:N3	1:2:1107:G:H1'	2.36	0.40
1:2:831:U:O2	1:2:831:U:H2'	2.20	0.40
1:2:1067:C:O2'	1:2:1068:C:H5'	2.21	0.40
1:2:1309:C:H2'	1:2:1310:U:O4'	2.21	0.40
1:2:1653:C:C4	1:2:1654:G:C6	3.09	0.40
3:S1:81:PHE:CD1	3:S1:109:LYS:HG2	2.55	0.40
8:S6:148:SER:OG	8:S6:150:GLU:OE1	2.39	0.40
9:S7:10:SER:HB3	9:S7:43:PHE:O	2.21	0.40
10:S8:61:GLU:HG3	10:S8:62:THR:HG23	2.02	0.40
11:S9:182:GLU:HG3	11:S9:183:ALA:N	2.36	0.40
20:C8:88:ARG:NH1	20:C8:112:ASP:OD1	2.54	0.40
25:D3:69:ARG:HD3	25:D3:117:ILE:HG12	2.03	0.40
25:D3:73:ARG:HA	25:D3:84:THR:HA	2.02	0.40
29:D7:64:CYS:HA	29:D7:72:LYS:O	2.20	0.40
34:SR:96:THR:HG22	34:SR:97:GLY:O	2.21	0.40
36:1:279:U:H2'	36:1:280:U:H6	1.85	0.40
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.46	0.40
36:1:650:C:H2'	36:1:651:G:C8	2.57	0.40
36:1:1109:U:H2'	36:1:1110:U:C6	2.56	0.40
36:1:1246:G:H2'	36:1:1247:U:O4'	2.21	0.40
36:1:2160:G:H2'	36:1:2161:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2379:U:H2'	36:1:2380:U:C6	2.56	0.40
36:1:2534:G:C2	36:1:2535:A:N7	2.89	0.40
36:1:2925:C:H2'	36:1:2926:A:O4'	2.21	0.40
36:1:3055:U:H6	36:1:3055:U:O5'	2.04	0.40
36:1:3120:C:H3'	76:Q0:111:ARG:HH21	1.86	0.40
36:1:3155:U:H3'	36:1:3156:U:H4'	2.03	0.40
36:1:3288:G:O2'	36:1:3289:G:OP2	2.29	0.40
38:4:107:G:C2	38:4:116:G:C5	3.09	0.40
39:L2:113:VAL:HG12	39:L2:166:ILE:HD13	2.02	0.40
42:L5:220:SER:O	42:L5:224:LYS:HB2	2.21	0.40
44:L7:151:ARG:HH11	44:L7:244:ASN:HD22	1.67	0.40
44:L7:179:LEU:HD22	44:L7:183:ASP:OD2	2.21	0.40
47:M0:68:ALA:HA	47:M0:158:LYS:HG3	2.03	0.40
47:M0:169:LYS:NZ	57:N1:159:PHE:H	2.19	0.40
54:M8:54:LEU:HA	54:M8:54:LEU:HD23	1.53	0.40
55:M9:44:LEU:HD13	55:M9:44:LEU:HA	1.86	0.40
70:O4:58:ARG:HH11	70:O4:58:ARG:HG2	1.86	0.40
71:O5:18:ALA:O	71:O5:22:VAL:HG23	2.21	0.40
1:6:336:G:OP1	13:c1:129:ARG:NH2	2.53	0.40
1:6:846:G:N2	13:c1:46:LYS:HE2	2.36	0.40
1:6:1158:C:H42	1:6:1163:A:N6	2.18	0.40
1:6:1176:G:C6	1:6:1464:G:C6	3.09	0.40
1:6:1429:G:C5	1:6:1430:U:C4	3.09	0.40
1:6:1491:U:H4'	1:6:1492:A:H5'	2.02	0.40
1:6:1527:C:O5'	1:6:1527:C:H6	2.05	0.40
1:6:1533:C:OP2	27:d5:77:ARG:NH2	2.44	0.40
1:6:1584:G:H22	1:6:1611:A:P	2.41	0.40
3:s1:70:LEU:HB3	3:s1:79:HIS:CB	2.50	0.40
3:s1:233:GLY:O	3:s1:234:GLU:HB2	2.21	0.40
4:s2:115:ILE:HD13	4:s2:208:GLU:OE1	2.21	0.40
6:s4:124:GLY:HA2	6:s4:142:HIS:HE1	1.83	0.40
7:s5:76:ARG:HD2	18:c6:122:ARG:HE	1.85	0.40
11:s9:123:HIS:O	11:s9:124:HIS:C	2.62	0.40
18:c6:28:LEU:O	18:c6:29:ILE:HG13	2.21	0.40
18:c6:60:PHE:HA	18:c6:63:ILE:HG13	2.03	0.40
19:c7:20:TYR:CZ	19:c7:38:ILE:HB	2.56	0.40
29:d7:47:PHE:CE1	29:d7:49:HIS:HB2	2.55	0.40
34:sR:44:SER:O	34:sR:58:VAL:HG13	2.21	0.40
34:sR:111:MET:HE3	34:sR:111:MET:HB3	1.94	0.40
36:5:167:U:H2'	36:5:168:U:H6	1.84	0.40
36:5:589:A:H1'	36:5:1337:A:H5''	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:603:A:H2'	36:5:604:G:O4'	2.21	0.40
36:5:911:C:N4	39:12:3:ARG:HD3	2.31	0.40
36:5:1393:A:C8	36:5:1418:A:C6	3.09	0.40
36:5:1556:C:H2'	36:5:2169:G:H1	1.86	0.40
36:5:1772:U:H5''	36:5:1773:C:H5'	2.03	0.40
36:5:2315:G:H2'	36:5:2316:G:H8	1.86	0.40
39:12:49:VAL:HG13	39:12:58:LEU:HB2	2.03	0.40
40:13:53:MET:HE2	40:13:77:THR:HG22	2.03	0.40
40:13:95:THR:C	40:13:97:ARG:H	2.29	0.40
41:14:99:MET:HE1	41:14:103:THR:HG23	2.02	0.40
42:15:8:LYS:HG2	42:15:12:TYR:CD2	2.56	0.40
42:15:122:VAL:O	42:15:123:GLU:HB2	2.21	0.40
46:19:150:SER:HB3	46:19:153:ASP:HB2	2.03	0.40
51:m5:184:LYS:C	51:m5:186:GLY:N	2.74	0.40
53:m7:69:ARG:HG2	53:m7:79:THR:OG1	2.21	0.40
54:m8:54:LEU:HA	54:m8:54:LEU:HD23	1.79	0.40
55:m9:25:ASP:HB3	55:m9:32:ILE:HD11	2.02	0.40
56:n0:77:VAL:HG11	56:n0:106:LEU:HG	2.03	0.40
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.21	0.40
64:n8:82:ILE:HD12	64:n8:82:ILE:HA	1.81	0.40
64:n8:97:GLU:O	64:n8:98:THR:HG23	2.21	0.40
66:o0:18:ILE:HG22	66:o0:19:LYS:HG2	2.03	0.40
79:q3:91:GLU:H	79:q3:91:GLU:HG2	1.77	0.40
1:2:225:A:H2'	1:2:226:A:C8	2.56	0.40
1:2:393:C:H2'	1:2:394:C:H6	1.86	0.40
1:2:393:C:H4'	1:2:1673:G:O2'	2.21	0.40
1:2:434:G:N2	1:2:436:A:H3'	2.36	0.40
1:2:499:U:C2	1:2:500:C:C5	3.08	0.40
1:2:542:A:N1	32:E0:28:LYS:HE2	2.37	0.40
1:2:1044:U:H2'	1:2:1045:C:H6	1.86	0.40
1:2:1226:A:HO2'	1:2:1227:A:P	2.43	0.40
1:2:1337:A:H5'	1:2:1338:C:OP2	2.20	0.40
1:2:1433:G:N2	31:D9:45:GLU:OE1	2.54	0.40
1:2:1503:A:C6	20:C8:84:TRP:CD1	3.09	0.40
1:2:1777:G:O6	77:Q1:8:LYS:NZ	2.42	0.40
87:2:2178:PCY:O21	87:2:2178:PCY:C22	2.69	0.40
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.50	0.40
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.53	0.40
9:S7:96:ARG:NH1	9:S7:124:LYS:HB3	2.36	0.40
10:S8:11:ARG:O	13:C1:133:LYS:NZ	2.48	0.40
10:S8:21:PHE:O	10:S8:22:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C1:100:TYR:O	25:D3:10:ASN:HA	2.21	0.40
21:C9:42:GLY:HA2	21:C9:84:LYS:HG3	2.03	0.40
23:D1:1:MET:HE3	23:D1:10:GLU:HG3	2.03	0.40
24:D2:57:ARG:HD2	24:D2:57:ARG:N	2.36	0.40
26:D4:49:LYS:N	26:D4:49:LYS:HD2	2.36	0.40
28:D6:43:ASN:OD1	28:D6:66:LYS:HG3	2.20	0.40
28:D6:44:ILE:H	28:D6:44:ILE:CD1	2.11	0.40
34:SR:162:ALA:O	34:SR:163:ASP:HB3	2.21	0.40
36:1:287:G:OP1	51:M5:179:LYS:HD3	2.21	0.40
36:1:685:G:OP1	49:M3:35:ARG:HG2	2.21	0.40
36:1:1748:G:C6	36:1:1749:A:C6	3.09	0.40
36:1:2407:C:H2'	36:1:2408:U:H6	1.86	0.40
37:3:75:G:O2'	37:3:104:A:N6	2.48	0.40
38:4:77:A:OP2	86:4:228:OHX:N2	2.54	0.40
39:L2:250:GLN:HB2	39:L2:251:LYS:H	1.58	0.40
41:L4:193:LYS:HA	41:L4:198:ARG:HA	2.02	0.40
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.21	0.40
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.56	0.40
47:M0:3:ARG:NH2	47:M0:63:GLU:HG3	2.36	0.40
48:M1:77:GLU:H	48:M1:77:GLU:HG2	1.38	0.40
53:M7:129:THR:HG23	53:M7:139:TYR:CG	2.56	0.40
57:N1:26:HIS:O	57:N1:26:HIS:ND1	2.52	0.40
62:N6:63:LYS:HE3	62:N6:97:ILE:HD13	2.02	0.40
1:6:486:G:N7	1:6:488:G:C2	2.90	0.40
1:6:648:G:C2	1:6:687:G:N3	2.89	0.40
1:6:686:C:H2'	1:6:687:G:O4'	2.21	0.40
1:6:811:A:C2	1:6:858:G:H1'	2.56	0.40
1:6:1080:U:O2'	1:6:1081:A:H5'	2.21	0.40
1:6:1270:G:O2'	33:e1:79:LYS:HB2	2.21	0.40
1:6:1592:A:H2'	1:6:1593:A:H8	1.84	0.40
1:6:1771:U:H2'	1:6:1772:C:C6	2.56	0.40
4:s2:67:GLN:HA	4:s2:70:ASP:HB2	2.03	0.40
9:s7:103:SER:HG	9:s7:106:SER:N	2.19	0.40
11:s9:122:VAL:O	11:s9:125:ALA:HB3	2.20	0.40
13:c1:96:LYS:HD3	13:c1:97:TYR:CZ	2.56	0.40
15:c3:70:LYS:H	15:c3:70:LYS:HG2	1.67	0.40
15:c3:99:ARG:HH11	15:c3:99:ARG:HD3	1.73	0.40
26:d4:32:ARG:O	26:d4:33:ALA:HB2	2.20	0.40
28:d6:47:ALA:O	28:d6:50:VAL:HG12	2.20	0.40
30:d8:39:THR:O	30:d8:40:ILE:HD12	2.21	0.40
34:sR:305:TYR:HB2	34:sR:311:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:177:U:OP2	86:5:4017:OHX:N6	2.54	0.40
36:5:283:G:O6	36:5:304:G:H1'	2.20	0.40
36:5:383:G:H2'	36:5:385:A:OP2	2.20	0.40
36:5:422:A:C2	36:5:2363:A:H4'	2.56	0.40
36:5:531:G:N2	36:5:562:C:C2	2.90	0.40
36:5:1048:A:H2'	47:m0:22:TYR:CE1	2.56	0.40
36:5:1706:C:H2'	36:5:1707:A:O4'	2.21	0.40
36:5:2218:G:H2'	36:5:2219:A:C8	2.56	0.40
37:7:47:C:H2'	37:7:48:U:H6	1.87	0.40
40:l3:311:PHE:HE2	40:l3:317:ILE:HG13	1.84	0.40
41:l4:220:ARG:HG3	41:l4:221:ASN:N	2.35	0.40
41:l4:316:ASN:HA	41:l4:317:PRO:HD3	1.85	0.40
42:l5:40:HIS:HB3	42:l5:43:LYS:HD2	2.03	0.40
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.56	0.40
42:l5:296:GLN:O	42:l5:297:GLN:HB3	2.20	0.40
43:l6:176:PHE:H	50:m4:117:ARG:HH22	1.67	0.40
44:l7:151:ARG:HD2	44:l7:244:ASN:OD1	2.21	0.40
48:m1:131:MET:HE3	48:m1:131:MET:HB3	1.83	0.40
49:m3:53:LEU:HD12	49:m3:96:ALA:HB2	2.03	0.40
49:m3:61:PRO:HD3	49:m3:70:ARG:NH2	2.36	0.40
50:m4:25:LYS:C	50:m4:29:ALA:HB2	2.46	0.40
56:n0:38:LYS:HB2	56:n0:38:LYS:HE3	1.85	0.40
57:n1:80:VAL:HG13	57:n1:85:LEU:HG	2.03	0.40
63:n7:36:HIS:N	63:n7:37:PRO:HD3	2.36	0.40
63:n7:105:SER:O	63:n7:109:GLU:N	2.47	0.40
69:o3:91:ALA:C	69:o3:93:THR:N	2.77	0.40
71:o5:42:PRO:C	71:o5:44:ILE:N	2.79	0.40
78:q2:70:LEU:N	78:q2:83:LEU:O	2.52	0.40
1:2:346:G:O2'	13:C1:80:MET:HE3	2.21	0.40
1:2:823:G:C6	1:2:850:A:C2	3.10	0.40
86:2:2076:OHX:N3	86:2:2160:OHX:N5	2.69	0.40
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	2.03	0.40
11:S9:30:LEU:HA	11:S9:30:LEU:HD22	1.81	0.40
15:C3:54:LEU:HD23	15:C3:54:LEU:HA	1.96	0.40
17:C5:13:LYS:HD2	17:C5:13:LYS:HA	1.96	0.40
18:C6:115:THR:HB	18:C6:118:ILE:O	2.21	0.40
19:C7:84:TYR:C	19:C7:85:VAL:HG23	2.46	0.40
20:C8:60:GLU:H	20:C8:60:GLU:HG2	1.53	0.40
20:C8:120:ARG:HH21	35:SM:61:ILE:HD13	1.85	0.40
21:C9:52:GLY:C	21:C9:54:PHE:N	2.76	0.40
21:C9:84:LYS:HB3	21:C9:94:ILE:HD13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:128:GLY:O	21:C9:132:LEU:HB2	2.20	0.40
22:D0:26:LEU:HB3	22:D0:34:LEU:HD21	2.03	0.40
26:D4:59:GLY:O	26:D4:60:PHE:HB2	2.21	0.40
35:SM:30:THR:HG21	36:1:2665:U:H4'	2.03	0.40
36:1:168:U:H2'	36:1:169:U:H6	1.87	0.40
36:1:664:U:H5'	41:L4:107:ARG:HA	2.04	0.40
36:1:785:G:N1	54:M8:89:ASP:O	2.47	0.40
36:1:1162:U:H4'	68:O2:57:TYR:CE1	2.56	0.40
36:1:1659:U:H2'	36:1:1660:C:C6	2.56	0.40
36:1:1742:U:H2'	36:1:1743:G:O4'	2.21	0.40
36:1:1878:G:C2'	36:1:1879:A:H5'	2.52	0.40
36:1:2403:G:H21	36:1:2404:A:N6	2.20	0.40
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.56	0.40
39:L2:14:SER:C	39:L2:16:PHE:N	2.80	0.40
41:L4:238:LEU:HD23	41:L4:238:LEU:HA	1.62	0.40
47:M0:176:LEU:HB2	47:M0:181:TYR:HB2	2.02	0.40
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.21	0.40
52:M6:54:TYR:CD2	52:M6:145:VAL:HG11	2.57	0.40
55:M9:164:LEU:HD22	55:M9:164:LEU:HA	1.95	0.40
59:N3:46:LEU:HD12	59:N3:47:ASN:CG	2.47	0.40
61:N5:68:THR:HG21	71:O5:36:LEU:HD11	2.02	0.40
61:N5:126:LEU:HD12	61:N5:132:ALA:HB2	2.03	0.40
61:N5:127:THR:O	61:N5:129:ASP:N	2.54	0.40
61:N5:135:ILE:HD11	61:N5:138:ARG:NH1	2.36	0.40
62:N6:83:ASP:O	62:N6:84:LYS:CB	2.69	0.40
63:N7:10:VAL:HB	63:N7:83:THR:CG2	2.52	0.40
77:Q1:15:ARG:O	77:Q1:19:LYS:HD2	2.21	0.40
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.53	0.40
1:6:130:C:H4'	1:6:176:C:OP1	2.22	0.40
1:6:838:G:C6	1:6:839:U:C4	3.09	0.40
1:6:1298:U:H2'	1:6:1299:G:O4'	2.22	0.40
1:6:1397:U:C5	1:6:1399:C:C2	3.09	0.40
1:6:1459:C:H42	20:c8:139:LYS:HE2	1.86	0.40
1:6:1490:C:H4'	1:6:1491:U:OP1	2.20	0.40
1:6:1656:U:H5''	1:6:1657:U:H5''	2.03	0.40
2:s0:3:LEU:HA	2:s0:4:PRO:HD2	1.60	0.40
3:s1:105:PHE:O	3:s1:106:THR:C	2.64	0.40
5:s3:116:ARG:HG2	35:sM:123:ALA:HB3	2.03	0.40
5:s3:183:GLY:O	5:s3:184:ILE:HD13	2.20	0.40
7:s5:29:ILE:HA	7:s5:30:PRO:HD3	1.80	0.40
8:s6:61:PHE:CE1	8:s6:96:SER:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:24:PHE:HE1	9:s7:77:LEU:HD11	1.87	0.40
11:s9:53:ARG:HD3	11:s9:97:LEU:O	2.21	0.40
11:s9:55:ALA:O	11:s9:56:ALA:C	2.64	0.40
12:c0:23:ALA:O	12:c0:24:LYS:HB3	2.21	0.40
19:c7:17:ILE:HG12	19:c7:58:MET:HE2	2.02	0.40
25:d3:133:LEU:HD22	25:d3:133:LEU:HA	1.77	0.40
28:d6:94:ASN:OD1	28:d6:96:ALA:HB3	2.21	0.40
30:d8:22:ARG:N	30:d8:22:ARG:HD3	2.37	0.40
31:d9:34:TYR:HB2	31:d9:36:LEU:HD22	2.02	0.40
36:5:183:G:H2'	36:5:184:U:C6	2.56	0.40
36:5:306:A:C2	36:5:2784:G:H1'	2.57	0.40
36:5:374:A:N3	36:5:376:G:H5''	2.37	0.40
36:5:386:A:C5	36:5:387:A:H1'	2.56	0.40
36:5:817:A:C2	73:o7:11:ARG:HB3	2.57	0.40
36:5:914:A:O2'	36:5:2146:C:H4'	2.21	0.40
36:5:956:U:H2'	36:5:957:C:H6	1.86	0.40
36:5:1055:A:H4'	37:7:100:C:O2	2.21	0.40
36:5:1243:G:H8	36:5:1243:G:OP2	2.04	0.40
36:5:1556:C:C5	36:5:2169:G:C4	3.10	0.40
36:5:1569:U:H5'	36:5:1570:U:C6	2.56	0.40
39:l2:207:VAL:H	39:l2:207:VAL:HG23	1.58	0.40
41:l4:126:ILE:HG13	41:l4:238:LEU:CD1	2.52	0.40
42:l5:261:THR:O	42:l5:264:GLN:N	2.54	0.40
42:l5:276:LYS:HB2	42:l5:276:LYS:HE3	1.71	0.40
44:l7:47:ARG:NH2	44:l7:179:LEU:HD11	2.36	0.40
45:l8:26:LEU:HD23	45:l8:26:LEU:HA	1.77	0.40
46:l9:55:VAL:HB	46:l9:68:LEU:HD21	2.03	0.40
47:m0:21:ARG:HG3	47:m0:22:TYR:CE2	2.56	0.40
48:m1:25:GLU:HG3	48:m1:26:SER:O	2.21	0.40
48:m1:80:LEU:O	48:m1:80:LEU:HD22	2.20	0.40
50:m4:36:VAL:HG12	50:m4:75:GLY:HA2	2.03	0.40
53:m7:98:ALA:HB1	53:m7:150:VAL:HG22	2.03	0.40
55:m9:90:PRO:HG2	55:m9:93:VAL:HG23	2.03	0.40
56:n0:151:PRO:C	56:n0:153:PRO:HD3	2.46	0.40
58:n2:28:PHE:HD2	58:n2:30:PRO:HG3	1.86	0.40
66:o0:27:TYR:HA	66:o0:89:VAL:HG11	2.03	0.40
68:o2:18:LYS:HD3	68:o2:30:GLU:CD	2.46	0.40
1:2:1:U:C4	1:2:369:A:C6	3.09	0.40
1:2:18:C:C2	1:2:19:A:C8	3.09	0.40
1:2:694:U:O2	1:2:694:U:H2'	2.21	0.40
1:2:704:C:N3	1:2:734:A:H2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:812:A:C5	1:2:858:G:C2	3.09	0.40
1:2:896:U:C1'	16:C4:38:THR:HG21	2.50	0.40
1:2:1336:A:O2'	18:C6:123:ARG:HG2	2.21	0.40
1:2:1409:G:N2	1:2:1411:A:H3'	2.36	0.40
1:2:1492:A:C4	1:2:1493:A:C8	3.09	0.40
1:2:1553:G:O6	17:C5:43:ARG:HD3	2.21	0.40
2:S0:86:VAL:O	2:S0:89:PHE:N	2.55	0.40
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	2.03	0.40
3:S1:122:GLU:HG3	3:S1:140:ILE:HG13	2.03	0.40
6:S4:43:PRO:HB2	6:S4:46:VAL:HG23	2.03	0.40
6:S4:115:THR:OG1	6:S4:116:ASP:N	2.54	0.40
7:S5:99:MET:O	7:S5:100:ASN:HB2	2.21	0.40
13:C1:3:THR:HG22	13:C1:4:GLU:N	2.37	0.40
20:C8:83:ALA:CA	20:C8:86:LEU:HD13	2.50	0.40
25:D3:79:ASN:C	25:D3:81:LYS:H	2.28	0.40
30:D8:64:ARG:HB3	30:D8:65:ARG:H	1.64	0.40
35:SM:112:ASP:HB3	35:SM:115:LYS:HG3	2.03	0.40
36:1:19:U:O2'	51:M5:112:ASN:HB2	2.21	0.40
36:1:173:G:C6	36:1:174:C:C4	3.09	0.40
36:1:255:A:O2'	36:1:256:G:H5'	2.21	0.40
36:1:402:A:C6	53:M7:21:TYR:CE2	3.09	0.40
36:1:551:A:C4	36:1:552:G:C8	3.10	0.40
36:1:608:A:C4	43:L6:22:ARG:NH1	2.89	0.40
36:1:637:C:H6	36:1:637:C:H2'	1.57	0.40
36:1:890:C:O2	36:1:2324:A:H2	2.04	0.40
36:1:1063:G:C8	57:N1:105:PHE:HE2	2.39	0.40
36:1:1495:U:C5	36:1:1835:A:N1	2.85	0.40
36:1:1804:A:H2'	36:1:1805:C:C6	2.57	0.40
36:1:2257:C:H2'	36:1:2258:U:C6	2.56	0.40
36:1:2366:C:H5'	40:L3:259:HIS:NE2	2.37	0.40
36:1:2724:U:H4'	57:N1:54:HIS:NE2	2.36	0.40
36:1:2941:A:N7	40:L3:255:TRP:CE2	2.90	0.40
36:1:2955:U:OP2	36:1:2977:G:N2	2.54	0.40
36:1:3248:C:O5'	36:1:3248:C:H6	2.04	0.40
86:1:3948:OHX:N1	86:1:4036:OHX:N5	2.68	0.40
86:1:4066:OHX:N1	86:1:4113:OHX:N2	2.69	0.40
38:4:45:C:OP1	75:O9:12:LYS:HE3	2.21	0.40
38:4:46:G:N2	38:4:58:G:C4	2.90	0.40
39:L2:80:GLU:N	39:L2:168:VAL:O	2.48	0.40
39:L2:104:LEU:HB3	39:L2:146:THR:HG21	2.03	0.40
40:L3:383:LEU:N	40:L3:386:ASP:OD2	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:91:GLY:O	41:L4:97:GLY:HA3	2.22	0.40
42:L5:111:GLN:C	42:L5:113:LEU:N	2.78	0.40
42:L5:163:LEU:HD11	42:L5:175:HIS:CB	2.51	0.40
46:L9:103:ILE:HD11	46:L9:134:ILE:CG2	2.51	0.40
49:M3:161:ASP:OD2	64:N8:139:ARG:HD3	2.22	0.40
51:M5:142:ILE:O	51:M5:144:ARG:O	2.40	0.40
52:M6:166:GLU:O	52:M6:169:ALA:N	2.54	0.40
53:M7:182:ILE:HG22	53:M7:183:ALA:N	2.37	0.40
55:M9:23:TRP:O	55:M9:50:ILE:HA	2.21	0.40
60:N4:50:ALA:HA	60:N4:55:PHE:CD2	2.56	0.40
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	1.88	0.40
61:N5:139:ILE:HD11	71:O5:33:VAL:HG21	2.02	0.40
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.46	0.40
63:N7:126:LYS:C	63:N7:128:GLN:N	2.79	0.40
64:N8:60:TYR:C	64:N8:60:TYR:HD1	2.30	0.40
69:O3:19:SER:O	69:O3:20:LYS:C	2.64	0.40
72:O6:4:LYS:HD2	72:O6:13:LYS:O	2.22	0.40
2:s0:103:THR:HA	2:s0:104:PRO:HD3	1.84	0.40
2:s0:107:PHE:CE2	2:s0:116:LYS:HB2	2.56	0.40
3:s1:130:SER:OG	3:s1:179:SER:O	2.30	0.40
4:s2:150:GLN:HA	4:s2:151:PRO:HD3	1.83	0.40
5:s3:109:LEU:O	5:s3:177:MET:HE1	2.21	0.40
6:s4:2:ALA:O	6:s4:4:GLY:N	2.54	0.40
7:s5:133:VAL:HA	7:s5:198:LEU:HD22	2.02	0.40
8:s6:68:LEU:C	8:s6:101:ILE:HD12	2.46	0.40
8:s6:98:ARG:HD2	8:s6:99:GLY:N	2.36	0.40
9:s7:143:LEU:HA	9:s7:143:LEU:HD13	1.88	0.40
11:s9:150:LEU:HD12	11:s9:150:LEU:HA	1.70	0.40
12:c0:24:LYS:HB2	12:c0:63:TYR:CE1	2.56	0.40
14:c2:127:GLY:HA2	35:sM:166:VAL:O	2.21	0.40
17:c5:51:SER:CB	17:c5:53:PRO:HD2	2.52	0.40
19:c7:71:PHE:CZ	19:c7:74:GLN:HB2	2.56	0.40
20:c8:142:GLY:O	20:c8:145:ARG:NH2	2.54	0.40
21:c9:78:LYS:HG3	21:c9:93:HIS:HE2	1.86	0.40
21:c9:117:SER:HB2	21:c9:123:ARG:HD2	2.04	0.40
22:d0:70:THR:HB	22:d0:72:ASN:O	2.21	0.40
23:d1:72:LEU:HD23	23:d1:72:LEU:HA	1.68	0.40
25:d3:77:ILE:HG13	25:d3:77:ILE:H	1.73	0.40
27:d5:40:VAL:HG12	27:d5:72:GLY:HA3	2.02	0.40
34:sR:81:LEU:HB3	34:sR:113:VAL:HG21	2.02	0.40
34:sR:187:GLN:HG2	34:sR:188:ILE:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:294:TRP:CE2	34:sR:301:LEU:HD13	2.56	0.40
36:5:92:G:O2'	78:q2:55:LYS:HD2	2.22	0.40
36:5:639:G:OP1	68:o2:40:SER:HB2	2.21	0.40
36:5:810:A:H2'	36:5:811:U:H6	1.86	0.40
36:5:1114:U:OP2	86:5:4008:OHX:N5	2.54	0.40
36:5:2151:C:H2'	36:5:2152:A:O4'	2.22	0.40
36:5:2390:A:H2'	36:5:2391:G:O4'	2.22	0.40
36:5:2997:G:N7	86:5:4184:OHX:N3	2.70	0.40
38:8:38:U:H6	71:o5:83:LYS:HD2	1.86	0.40
38:8:66:A:H2'	38:8:67:U:H6	1.86	0.40
38:8:156:U:C4	38:8:157:U:C5	3.09	0.40
40:l3:221:THR:O	40:l3:272:TYR:HA	2.20	0.40
41:l4:3:ARG:HB2	41:l4:21:PRO:HB2	2.03	0.40
42:l5:261:THR:OG1	42:l5:264:GLN:HG3	2.22	0.40
46:l9:36:LYS:HD2	46:l9:78:MET:HE2	2.02	0.40
47:m0:9:TYR:CG	47:m0:97:LEU:HD13	2.56	0.40
47:m0:85:PHE:CB	47:m0:140:THR:HG22	2.51	0.40
51:m5:98:LEU:O	51:m5:102:ALA:N	2.51	0.40
51:m5:150:TRP:HE3	51:m5:156:HIS:CD2	2.40	0.40
56:n0:148:LEU:C	56:n0:149:LYS:HG2	2.46	0.40
57:n1:78:LYS:HB2	57:n1:87:LYS:HG3	2.02	0.40
61:n5:106:ASP:O	61:n5:127:THR:HG23	2.20	0.40
65:n9:11:ASN:O	65:n9:15:LYS:HG3	2.22	0.40
66:o0:41:LEU:HD23	66:o0:66:LYS:HB2	2.03	0.40
68:o2:8:LYS:HE2	68:o2:8:LYS:HB3	1.86	0.40
70:o4:84:CYS:O	70:o4:88:ARG:HB2	2.22	0.40
72:o6:51:SER:H	72:o6:54:GLU:HB2	1.85	0.40
1:2:180:A:H2'	1:2:181:A:O4'	2.21	0.40
1:2:332:U:OP1	10:S8:31:ARG:NE	2.47	0.40
1:2:620:A:O2'	1:2:621:A:H5'	2.21	0.40
1:2:766:U:C4	1:2:769:A:N7	2.89	0.40
1:2:773:C:OP1	6:S4:22:LYS:N	2.53	0.40
1:2:1014:G:OP1	86:2:2025:OHX:N5	2.54	0.40
1:2:1404:C:H2'	1:2:1405:G:H8	1.86	0.40
1:2:1573:A:H5'	1:2:1574:G:N2	2.37	0.40
1:2:1742:U:H2'	1:2:1743:U:O4'	2.21	0.40
1:2:1796:C:OP2	28:D6:92:ARG:HD3	2.22	0.40
2:S0:27:ARG:C	2:S0:29:VAL:H	2.29	0.40
2:S0:110:TYR:HA	2:S0:115:PHE:CZ	2.55	0.40
2:S0:120:LEU:HD11	2:S0:144:ILE:HG13	2.02	0.40
8:S6:22:HIS:HA	8:S6:25:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:87:ARG:HD3	8:S6:87:ARG:HA	1.70	0.40
9:S7:50:ASP:HB3	9:S7:56:LYS:CG	2.39	0.40
11:S9:114:TYR:HA	11:S9:119:ALA:HB3	2.03	0.40
14:C2:54:ARG:O	14:C2:56:GLU:N	2.50	0.40
14:C2:88:LEU:HB3	14:C2:140:PHE:HZ	1.87	0.40
21:C9:6:VAL:HB	21:C9:14:PHE:CE1	2.57	0.40
21:C9:28:LEU:CD1	21:C9:29:GLU:H	2.33	0.40
24:D2:11:LEU:HD23	24:D2:11:LEU:HA	1.96	0.40
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.84	0.40
34:SR:24:ALA:HB2	34:SR:72:THR:HA	2.03	0.40
34:SR:62:LYS:HE2	34:SR:62:LYS:HB3	1.91	0.40
34:SR:205:SER:HB3	34:SR:210:LEU:HB2	2.04	0.40
36:1:299:G:O6	86:1:4079:OHX:N2	2.54	0.40
36:1:535:G:O6	86:1:4059:OHX:N3	2.55	0.40
36:1:979:U:H1'	36:1:980:A:N9	2.36	0.40
36:1:1021:G:N2	36:1:1032:C:C2	2.90	0.40
36:1:1506:A:H1'	36:1:1848:G:O6	2.21	0.40
36:1:1709:C:H2'	36:1:1710:C:H6	1.85	0.40
36:1:1720:U:P	55:M9:110:ARG:HH12	2.44	0.40
36:1:1949:G:OP2	55:M9:135:LYS:HE2	2.21	0.40
36:1:2115:G:H22	36:1:2120:A:H1'	1.84	0.40
36:1:2308:C:O5'	36:1:2308:C:H6	2.05	0.40
36:1:2652:U:C4	36:1:2653:C:C4	3.10	0.40
36:1:2674:A:OP2	86:1:4047:OHX:N3	2.55	0.40
38:4:103:G:C6	38:4:105:A:C6	3.10	0.40
39:L2:128:ARG:HH11	39:L2:128:ARG:HD3	1.77	0.40
39:L2:130:SER:HA	39:L2:169:ILE:CG2	2.50	0.40
41:L4:174:ALA:O	41:L4:178:LEU:HG	2.21	0.40
41:L4:220:ARG:HH11	41:L4:220:ARG:HD2	1.75	0.40
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.36	0.40
42:L5:58:LYS:HA	42:L5:93:THR:HB	2.04	0.40
42:L5:86:TYR:CD1	42:L5:247:ILE:HA	2.56	0.40
42:L5:94:ASN:OD1	42:L5:97:ALA:N	2.46	0.40
48:M1:25:GLU:OE1	48:M1:29:ARG:HD2	2.21	0.40
48:M1:82:ARG:HE	48:M1:82:ARG:HB2	1.85	0.40
51:M5:38:ARG:HD3	51:M5:39:ALA:N	2.36	0.40
51:M5:38:ARG:HG3	51:M5:38:ARG:HH11	1.86	0.40
51:M5:68:ARG:HD2	51:M5:127:TYR:C	2.47	0.40
52:M6:43:ILE:HG22	52:M6:44:SER:O	2.20	0.40
55:M9:102:LEU:HD23	55:M9:102:LEU:HA	1.87	0.40
57:N1:96:ILE:HD12	57:N1:96:ILE:HA	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:138:ARG:HH21	61:N5:138:ARG:HG2	1.87	0.40
63:N7:27:LYS:HA	63:N7:27:LYS:HD2	1.90	0.40
64:N8:70:LYS:HE2	64:N8:129:PHE:CD2	2.57	0.40
67:O1:20:LEU:HD23	67:O1:20:LEU:HA	1.77	0.40
68:O2:67:SER:HB2	68:O2:68:PRO:HD2	2.03	0.40
75:O9:5:LYS:H	75:O9:5:LYS:HG3	1.60	0.40
1:6:327:U:O2'	13:c1:10:GLU:HG2	2.21	0.40
1:6:330:G:C6	1:6:331:A:C5	3.10	0.40
1:6:449:C:H2'	1:6:450:U:H6	1.86	0.40
1:6:917:U:H1'	16:c4:41:ARG:HD2	2.03	0.40
1:6:993:A:H2'	1:6:994:G:O4'	2.21	0.40
1:6:1054:U:H2'	1:6:1055:U:C6	2.57	0.40
1:6:1213:G:O2'	1:6:1244:A:N6	2.54	0.40
1:6:1214:U:H3'	1:6:1215:C:C6	2.56	0.40
1:6:1410:A:H5''	18:c6:118:ILE:CG2	2.51	0.40
1:6:1627:U:C4	1:6:1628:U:C4	3.10	0.40
5:s3:90:ARG:HB3	5:s3:91:VAL:H	1.64	0.40
6:s4:11:ARG:O	6:s4:12:LEU:HB2	2.21	0.40
6:s4:251:GLU:O	6:s4:255:ARG:HG2	2.20	0.40
7:s5:73:THR:C	7:s5:75:GLY:N	2.80	0.40
7:s5:114:ILE:HA	7:s5:114:ILE:HD13	1.85	0.40
7:s5:124:LEU:HA	7:s5:124:LEU:HD12	1.86	0.40
9:s7:14:THR:HG22	9:s7:17:GLU:OE1	2.21	0.40
9:s7:91:ILE:HD12	9:s7:91:ILE:HA	1.89	0.40
11:s9:162:SER:HA	11:s9:163:PRO:HD2	1.74	0.40
15:c3:55:ARG:O	29:d7:47:PHE:HB2	2.22	0.40
17:c5:18:ARG:HD2	17:c5:36:LEU:O	2.22	0.40
29:d7:54:VAL:O	29:d7:63:LEU:HB2	2.21	0.40
30:d8:11:LYS:O	30:d8:31:GLU:N	2.55	0.40
36:5:199:A:C4	36:5:201:A:C8	3.09	0.40
36:5:848:A:C5	36:5:849:C:H1'	2.56	0.40
36:5:1461:A:H2'	36:5:1462:A:O4'	2.22	0.40
36:5:1573:G:C5	36:5:1574:C:H1'	2.57	0.40
36:5:1666:G:C6	36:5:1667:A:C6	3.10	0.40
36:5:2439:A:H5''	36:5:2439:A:H8	1.87	0.40
36:5:2439:A:N6	36:5:2508:U:H3	2.04	0.40
36:5:3227:A:C2'	36:5:3228:C:H5'	2.50	0.40
36:5:3236:U:H1'	36:5:3252:G:N2	2.37	0.40
36:5:3288:G:H2'	36:5:3288:G:OP2	2.22	0.40
36:5:3316:A:H5''	36:5:3318:G:N2	2.36	0.40
37:7:1:G:C2	42:l5:269:SER:OG	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:7:G:OP1	42:15:33:ARG:HD2	2.22	0.40
37:7:40:C:O2'	48:m1:72:ARG:HD2	2.21	0.40
41:l4:26:PHE:CE2	41:l4:258:LEU:HD23	2.53	0.40
41:l4:138:ARG:NH2	41:l4:240:PRO:HB2	2.36	0.40
46:l9:129:ARG:HB3	46:l9:132:VAL:HG11	2.03	0.40
47:m0:129:VAL:HG13	47:m0:130:ASP:N	2.37	0.40
48:m1:33:ALA:HB2	48:m1:123:PHE:CE1	2.57	0.40
48:m1:110:ILE:CD1	48:m1:122:ILE:HD11	2.52	0.40
49:m3:4:SER:O	49:m3:5:LYS:HB2	2.22	0.40
50:m4:77:ARG:O	50:m4:81:VAL:HG23	2.21	0.40
52:m6:92:THR:O	52:m6:96:LYS:HG3	2.22	0.40
54:m8:134:GLY:O	54:m8:137:THR:OG1	2.22	0.40
55:m9:4:LEU:CD2	55:m9:33:ALA:HA	2.52	0.40
56:n0:139:TYR:CD2	56:n0:140:VAL:HG23	2.56	0.40
59:n3:24:ASN:O	59:n3:99:ALA:HA	2.22	0.40
67:o1:9:THR:HA	67:o1:76:SER:HA	2.03	0.40
68:o2:19:ARG:HG3	68:o2:33:ARG:HB2	2.04	0.40
70:o4:101:VAL:O	70:o4:102:LYS:C	2.64	0.40
74:o8:35:GLY:O	74:o8:36:LYS:HD2	2.21	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:236:A:O2'	38:4:158:U:O2'[2_556]	2.13	0.07
60:n4:106:GLU:OE2	82:p0:16:ARG:NH2[2_657]	2.16	0.04

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	S0	204/251 (81%)	148 (72%)	34 (17%)	22 (11%)	0 2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	s0	204/251 (81%)	155 (76%)	31 (15%)	18 (9%)	0	3
3	S1	212/254 (84%)	143 (68%)	36 (17%)	33 (16%)	0	0
3	s1	214/254 (84%)	168 (78%)	30 (14%)	16 (8%)	1	5
4	S2	215/253 (85%)	176 (82%)	24 (11%)	15 (7%)	1	6
4	s2	215/253 (85%)	178 (83%)	24 (11%)	13 (6%)	1	10
5	S3	221/239 (92%)	182 (82%)	31 (14%)	8 (4%)	2	19
5	s3	221/239 (92%)	172 (78%)	31 (14%)	18 (8%)	1	4
6	S4	258/260 (99%)	208 (81%)	27 (10%)	23 (9%)	0	3
6	s4	258/260 (99%)	200 (78%)	36 (14%)	22 (8%)	0	3
7	S5	204/224 (91%)	154 (76%)	29 (14%)	21 (10%)	0	2
7	s5	204/224 (91%)	158 (78%)	26 (13%)	20 (10%)	0	2
8	S6	224/236 (95%)	185 (83%)	22 (10%)	17 (8%)	1	5
8	s6	216/236 (92%)	187 (87%)	19 (9%)	10 (5%)	2	15
9	S7	182/189 (96%)	134 (74%)	23 (13%)	25 (14%)	0	1
9	s7	184/189 (97%)	145 (79%)	27 (15%)	12 (6%)	1	8
10	S8	184/200 (92%)	149 (81%)	24 (13%)	11 (6%)	1	10
10	s8	184/200 (92%)	159 (86%)	19 (10%)	6 (3%)	3	21
11	S9	183/196 (93%)	143 (78%)	29 (16%)	11 (6%)	1	10
11	s9	183/196 (93%)	148 (81%)	25 (14%)	10 (6%)	1	11
12	C0	94/105 (90%)	74 (79%)	10 (11%)	10 (11%)	0	2
12	c0	92/105 (88%)	63 (68%)	15 (16%)	14 (15%)	0	0
13	C1	153/155 (99%)	118 (77%)	20 (13%)	15 (10%)	0	2
13	c1	144/155 (93%)	117 (81%)	19 (13%)	8 (6%)	1	11
14	C2	122/142 (86%)	75 (62%)	26 (21%)	21 (17%)	0	0
14	c2	122/142 (86%)	69 (57%)	34 (28%)	19 (16%)	0	0
15	C3	148/150 (99%)	120 (81%)	20 (14%)	8 (5%)	1	12
15	c3	148/150 (99%)	120 (81%)	18 (12%)	10 (7%)	1	7
16	C4	125/136 (92%)	94 (75%)	21 (17%)	10 (8%)	1	4
16	c4	126/136 (93%)	92 (73%)	22 (18%)	12 (10%)	0	3
17	C5	122/141 (86%)	90 (74%)	18 (15%)	14 (12%)	0	1
17	c5	133/141 (94%)	86 (65%)	23 (17%)	24 (18%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	C6	139/142 (98%)	116 (84%)	13 (9%)	10 (7%)	1	6
18	c6	140/142 (99%)	115 (82%)	18 (13%)	7 (5%)	1	13
19	C7	116/136 (85%)	86 (74%)	18 (16%)	12 (10%)	0	2
19	c7	113/136 (83%)	87 (77%)	12 (11%)	14 (12%)	0	1
20	C8	143/145 (99%)	110 (77%)	22 (15%)	11 (8%)	1	5
20	c8	143/145 (99%)	111 (78%)	22 (15%)	10 (7%)	1	6
21	C9	141/143 (99%)	113 (80%)	25 (18%)	3 (2%)	5	31
21	c9	141/143 (99%)	116 (82%)	18 (13%)	7 (5%)	1	13
22	D0	105/120 (88%)	83 (79%)	19 (18%)	3 (3%)	3	24
22	d0	108/120 (90%)	82 (76%)	16 (15%)	10 (9%)	0	3
23	D1	85/87 (98%)	65 (76%)	14 (16%)	6 (7%)	1	6
23	d1	85/87 (98%)	74 (87%)	7 (8%)	4 (5%)	2	14
24	D2	127/129 (98%)	108 (85%)	12 (9%)	7 (6%)	1	11
24	d2	127/129 (98%)	114 (90%)	9 (7%)	4 (3%)	3	22
25	D3	142/144 (99%)	107 (75%)	22 (16%)	13 (9%)	0	3
25	d3	142/144 (99%)	116 (82%)	19 (13%)	7 (5%)	1	13
26	D4	132/134 (98%)	102 (77%)	23 (17%)	7 (5%)	1	12
26	d4	132/134 (98%)	101 (76%)	21 (16%)	10 (8%)	1	5
27	D5	68/107 (64%)	43 (63%)	14 (21%)	11 (16%)	0	0
27	d5	67/107 (63%)	50 (75%)	14 (21%)	3 (4%)	2	15
28	D6	95/97 (98%)	56 (59%)	19 (20%)	20 (21%)	0	0
28	d6	95/97 (98%)	73 (77%)	13 (14%)	9 (10%)	0	3
29	D7	79/81 (98%)	61 (77%)	15 (19%)	3 (4%)	2	18
29	d7	79/81 (98%)	60 (76%)	15 (19%)	4 (5%)	1	13
30	D8	61/66 (92%)	50 (82%)	7 (12%)	4 (7%)	1	7
30	d8	61/66 (92%)	44 (72%)	10 (16%)	7 (12%)	0	1
31	D9	51/55 (93%)	43 (84%)	7 (14%)	1 (2%)	6	31
31	d9	51/55 (93%)	39 (76%)	8 (16%)	4 (8%)	1	5
32	E0	58/60 (97%)	49 (84%)	6 (10%)	3 (5%)	1	12
33	E1	69/76 (91%)	33 (48%)	15 (22%)	21 (30%)	0	0
33	e1	74/76 (97%)	33 (45%)	24 (32%)	17 (23%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	SR	316/318 (99%)	244 (77%)	52 (16%)	20 (6%)	1	8
34	sR	316/318 (99%)	259 (82%)	43 (14%)	14 (4%)	2	15
35	SM	155/273 (57%)	114 (74%)	23 (15%)	18 (12%)	0	1
35	sM	98/273 (36%)	61 (62%)	21 (21%)	16 (16%)	0	0
39	L2	250/253 (99%)	218 (87%)	26 (10%)	6 (2%)	4	28
39	l2	250/253 (99%)	203 (81%)	36 (14%)	11 (4%)	2	15
40	L3	384/386 (100%)	336 (88%)	30 (8%)	18 (5%)	2	14
40	l3	384/386 (100%)	329 (86%)	42 (11%)	13 (3%)	3	20
41	L4	359/361 (99%)	303 (84%)	37 (10%)	19 (5%)	1	12
41	l4	359/361 (99%)	297 (83%)	43 (12%)	19 (5%)	1	12
42	L5	294/296 (99%)	244 (83%)	31 (10%)	19 (6%)	1	8
42	l5	292/296 (99%)	250 (86%)	30 (10%)	12 (4%)	2	17
43	L6	152/175 (87%)	129 (85%)	19 (12%)	4 (3%)	4	26
43	l6	153/175 (87%)	125 (82%)	24 (16%)	4 (3%)	4	26
44	L7	220/243 (90%)	183 (83%)	28 (13%)	9 (4%)	2	17
44	l7	221/243 (91%)	191 (86%)	24 (11%)	6 (3%)	4	25
45	L8	231/255 (91%)	185 (80%)	37 (16%)	9 (4%)	2	18
45	l8	229/255 (90%)	175 (76%)	32 (14%)	22 (10%)	0	3
46	L9	189/191 (99%)	161 (85%)	24 (13%)	4 (2%)	5	31
46	l9	189/191 (99%)	165 (87%)	18 (10%)	6 (3%)	3	21
47	M0	207/220 (94%)	168 (81%)	33 (16%)	6 (3%)	3	24
47	m0	209/220 (95%)	175 (84%)	20 (10%)	14 (7%)	1	7
48	M1	167/173 (96%)	135 (81%)	18 (11%)	14 (8%)	0	4
48	m1	167/173 (96%)	132 (79%)	20 (12%)	15 (9%)	0	3
49	M3	191/198 (96%)	161 (84%)	21 (11%)	9 (5%)	2	14
49	m3	192/198 (97%)	154 (80%)	19 (10%)	19 (10%)	0	2
50	M4	134/137 (98%)	119 (89%)	8 (6%)	7 (5%)	1	12
50	m4	135/137 (98%)	118 (87%)	15 (11%)	2 (2%)	8	37
51	M5	201/203 (99%)	184 (92%)	11 (6%)	6 (3%)	3	23
51	m5	201/203 (99%)	181 (90%)	15 (8%)	5 (2%)	4	27
52	M6	195/198 (98%)	176 (90%)	16 (8%)	3 (2%)	8	37

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
52	m6	195/198 (98%)	175 (90%)	15 (8%)	5 (3%)	4	26
53	M7	181/183 (99%)	154 (85%)	22 (12%)	5 (3%)	4	25
53	m7	153/183 (84%)	131 (86%)	19 (12%)	3 (2%)	6	31
54	M8	183/185 (99%)	157 (86%)	19 (10%)	7 (4%)	2	18
54	m8	183/185 (99%)	148 (81%)	29 (16%)	6 (3%)	3	21
55	M9	186/188 (99%)	165 (89%)	17 (9%)	4 (2%)	5	29
55	m9	186/188 (99%)	162 (87%)	20 (11%)	4 (2%)	5	29
56	N0	170/172 (99%)	152 (89%)	15 (9%)	3 (2%)	6	34
56	n0	170/172 (99%)	154 (91%)	13 (8%)	3 (2%)	6	34
57	N1	157/159 (99%)	136 (87%)	13 (8%)	8 (5%)	1	13
57	n1	157/159 (99%)	139 (88%)	16 (10%)	2 (1%)	9	40
58	N2	98/120 (82%)	77 (79%)	15 (15%)	6 (6%)	1	9
58	n2	96/120 (80%)	75 (78%)	19 (20%)	2 (2%)	5	31
59	N3	134/136 (98%)	119 (89%)	15 (11%)	0	100	100
59	n3	134/136 (98%)	122 (91%)	10 (8%)	2 (2%)	8	37
60	N4	96/155 (62%)	72 (75%)	18 (19%)	6 (6%)	1	8
60	n4	133/155 (86%)	111 (84%)	15 (11%)	7 (5%)	1	12
61	N5	119/141 (84%)	106 (89%)	9 (8%)	4 (3%)	3	20
61	n5	118/141 (84%)	96 (81%)	15 (13%)	7 (6%)	1	10
62	N6	124/126 (98%)	110 (89%)	8 (6%)	6 (5%)	2	14
62	n6	124/126 (98%)	108 (87%)	11 (9%)	5 (4%)	2	17
63	N7	133/135 (98%)	112 (84%)	14 (10%)	7 (5%)	1	12
63	n7	133/135 (98%)	108 (81%)	20 (15%)	5 (4%)	2	18
64	N8	146/148 (99%)	124 (85%)	18 (12%)	4 (3%)	4	25
64	n8	146/148 (99%)	120 (82%)	16 (11%)	10 (7%)	1	7
65	N9	56/58 (97%)	44 (79%)	10 (18%)	2 (4%)	2	19
65	n9	56/58 (97%)	41 (73%)	10 (18%)	5 (9%)	0	3
66	O0	95/104 (91%)	83 (87%)	10 (10%)	2 (2%)	5	31
66	o0	98/104 (94%)	86 (88%)	9 (9%)	3 (3%)	3	22
67	O1	107/112 (96%)	95 (89%)	7 (6%)	5 (5%)	2	14
67	o1	107/112 (96%)	91 (85%)	12 (11%)	4 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
68	O2	125/129 (97%)	109 (87%)	13 (10%)	3 (2%)	4	28
68	o2	125/129 (97%)	102 (82%)	18 (14%)	5 (4%)	2	17
69	O3	104/106 (98%)	93 (89%)	10 (10%)	1 (1%)	12	45
69	o3	104/106 (98%)	90 (86%)	11 (11%)	3 (3%)	3	24
70	O4	110/120 (92%)	92 (84%)	16 (14%)	2 (2%)	6	34
70	o4	110/120 (92%)	92 (84%)	12 (11%)	6 (6%)	1	11
71	O5	117/119 (98%)	103 (88%)	8 (7%)	6 (5%)	1	13
71	o5	117/119 (98%)	97 (83%)	13 (11%)	7 (6%)	1	10
72	O6	97/99 (98%)	76 (78%)	11 (11%)	10 (10%)	0	2
72	o6	97/99 (98%)	74 (76%)	16 (16%)	7 (7%)	1	6
73	O7	85/87 (98%)	73 (86%)	10 (12%)	2 (2%)	4	28
73	o7	85/87 (98%)	69 (81%)	13 (15%)	3 (4%)	3	20
74	O8	75/77 (97%)	61 (81%)	9 (12%)	5 (7%)	1	7
74	o8	75/77 (97%)	59 (79%)	11 (15%)	5 (7%)	1	7
75	O9	48/50 (96%)	41 (85%)	7 (15%)	0	100	100
75	o9	48/50 (96%)	41 (85%)	5 (10%)	2 (4%)	2	16
76	Q0	50/52 (96%)	43 (86%)	5 (10%)	2 (4%)	2	17
76	q0	50/52 (96%)	45 (90%)	4 (8%)	1 (2%)	6	31
77	Q1	23/25 (92%)	23 (100%)	0	0	100	100
77	q1	23/25 (92%)	20 (87%)	2 (9%)	1 (4%)	2	16
78	Q2	103/105 (98%)	78 (76%)	16 (16%)	9 (9%)	0	3
78	q2	103/105 (98%)	90 (87%)	11 (11%)	2 (2%)	6	33
79	Q3	89/91 (98%)	75 (84%)	10 (11%)	4 (4%)	2	15
79	q3	89/91 (98%)	76 (85%)	12 (14%)	1 (1%)	11	43
80	e0	60/62 (97%)	48 (80%)	5 (8%)	7 (12%)	0	1
82	p0	139/311 (45%)	111 (80%)	23 (16%)	5 (4%)	2	19
All	All	22333/24143 (92%)	18179 (81%)	2816 (13%)	1338 (6%)	1	10

All (1338) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	66	ALA
2	S0	158	VAL

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Mol	Chain	Res	Type
2	S0	191	ARG
2	S0	194	PRO
3	S1	40	ASN
3	S1	49	ASN
3	S1	90	GLU
3	S1	132	ASP
3	S1	181	LEU
3	S1	182	ALA
3	S1	206	PRO
3	S1	213	ARG
3	S1	221	PRO
3	S1	223	PHE
4	S2	48	GLY
4	S2	148	LEU
5	S3	93	ASP
5	S3	137	VAL
5	S3	216	PRO
5	S3	220	PRO
6	S4	3	ARG
6	S4	12	LEU
6	S4	38	LEU
6	S4	39	ARG
6	S4	79	ASP
6	S4	96	ASN
6	S4	104	ASP
6	S4	142	HIS
6	S4	188	ASN
6	S4	227	VAL
6	S4	242	LYS
7	S5	26	ALA
7	S5	35	GLN
7	S5	36	ALA
7	S5	39	GLU
7	S5	43	PHE
7	S5	63	GLN
7	S5	81	ARG
7	S5	101	GLY
7	S5	154	ALA
8	S6	122	GLU
8	S6	173	PRO
8	S6	174	LYS
9	S7	31	SER

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Mol	Chain	Res	Type
9	S7	32	PRO
9	S7	64	VAL
9	S7	85	PHE
9	S7	111	LYS
9	S7	112	ARG
9	S7	116	ARG
9	S7	131	PHE
9	S7	134	GLU
10	S8	120	THR
10	S8	149	SER
10	S8	153	GLU
11	S9	98	ALA
11	S9	134	ILE
11	S9	164	PHE
11	S9	169	PRO
12	C0	60	SER
12	C0	88	PRO
12	C0	94	GLU
13	C1	7	VAL
13	C1	29	LYS
13	C1	96	LYS
13	C1	139	VAL
13	C1	140	VAL
14	C2	101	ALA
16	C4	50	ALA
16	C4	124	ASP
16	C4	125	SER
16	C4	126	THR
17	C5	11	VAL
17	C5	125	PRO
17	C5	126	VAL
18	C6	39	VAL
18	C6	41	PRO
18	C6	58	ASP
18	C6	114	ARG
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
20	C8	14	ILE
20	C8	60	GLU
20	C8	91	ASP
20	C8	144	ARG

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Mol	Chain	Res	Type
21	C9	31	PRO
21	C9	53	TRP
23	D1	4	ASP
23	D1	82	VAL
24	D2	83	ILE
24	D2	127	GLY
25	D3	54	LEU
25	D3	138	GLU
25	D3	144	ARG
26	D4	6	THR
27	D5	37	GLN
28	D6	18	VAL
28	D6	45	VAL
28	D6	46	GLU
28	D6	47	ALA
28	D6	61	GLU
28	D6	65	PRO
28	D6	66	LYS
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
28	D6	88	SER
29	D7	38	PRO
29	D7	62	ILE
32	E0	47	VAL
33	E1	84	VAL
33	E1	98	VAL
33	E1	102	VAL
33	E1	103	LEU
34	SR	24	ALA
34	SR	155	ARG
34	SR	161	LYS
34	SR	188	ILE
34	SR	201	THR
34	SR	231	MET
35	SM	42	ALA
35	SM	102	THR
35	SM	140	ASP
35	SM	166	VAL
35	SM	167	PRO
39	L2	144	ASN
39	L2	246	LEU

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Mol	Chain	Res	Type
40	L3	3	HIS
40	L3	5	LYS
40	L3	140	ASP
40	L3	347	SER
40	L3	386	ASP
41	L4	4	PRO
41	L4	131	VAL
41	L4	311	HIS
41	L4	338	LYS
42	L5	57	ASN
42	L5	178	ASN
42	L5	234	ASP
42	L5	258	LYS
43	L6	98	VAL
44	L7	24	GLU
45	L8	25	PRO
46	L9	2	LYS
47	M0	189	GLU
47	M0	207	GLU
47	M0	219	ALA
48	M1	8	PRO
48	M1	9	MET
48	M1	140	ARG
48	M1	145	LYS
48	M1	165	GLN
49	M3	13	HIS
49	M3	47	ALA
49	M3	129	ASN
49	M3	192	GLU
50	M4	9	ALA
50	M4	10	SER
51	M5	74	PRO
52	M6	110	PRO
52	M6	111	PRO
53	M7	157	VAL
54	M8	41	ASP
54	M8	98	LYS
54	M8	99	THR
56	N0	2	ALA
57	N1	122	GLN
57	N1	124	VAL
57	N1	126	VAL

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Mol	Chain	Res	Type
58	N2	31	ALA
58	N2	44	GLU
60	N4	76	VAL
60	N4	81	PRO
61	N5	44	PRO
62	N6	52	ARG
63	N7	3	LYS
63	N7	59	ALA
64	N8	76	ASP
67	O1	6	ASP
68	O2	127	ALA
71	O5	96	GLU
71	O5	119	LYS
72	O6	33	ALA
72	O6	34	SER
72	O6	52	PRO
72	O6	98	ARG
72	O6	99	ARG
74	O8	18	ALA
78	Q2	100	LYS
2	s0	29	VAL
2	s0	30	GLN
2	s0	111	ILE
2	s0	158	VAL
2	s0	164	ASN
2	s0	167	LYS
2	s0	186	GLY
2	s0	189	VAL
2	s0	206	ASP
3	s1	206	PRO
3	s1	232	HIS
4	s2	92	ALA
5	s3	61	GLU
5	s3	211	PRO
5	s3	216	PRO
5	s3	217	ILE
5	s3	220	PRO
6	s4	12	LEU
6	s4	24	SER
6	s4	57	ASN
6	s4	90	ILE
6	s4	95	THR

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Mol	Chain	Res	Type
6	s4	104	ASP
6	s4	196	VAL
7	s5	28	PRO
7	s5	29	ILE
7	s5	36	ALA
7	s5	151	GLY
7	s5	184	PHE
7	s5	209	TYR
8	s6	70	PRO
8	s6	122	GLU
8	s6	153	VAL
8	s6	154	ARG
8	s6	173	PRO
9	s7	64	VAL
9	s7	74	GLN
9	s7	131	PHE
9	s7	163	ASP
9	s7	185	ILE
10	s8	62	THR
10	s8	137	LYS
11	s9	65	LYS
11	s9	162	SER
12	c0	73	VAL
12	c0	83	PRO
12	c0	88	PRO
12	c0	94	GLU
12	c0	97	PRO
13	c1	129	ARG
13	c1	144	ALA
14	c2	22	VAL
14	c2	130	THR
14	c2	131	ASP
15	c3	19	SER
15	c3	29	SER
15	c3	66	ILE
16	c4	35	GLY
16	c4	91	THR
16	c4	98	GLY
16	c4	126	THR
17	c5	11	VAL
17	c5	20	VAL
17	c5	50	THR

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Mol	Chain	Res	Type
17	c5	51	SER
17	c5	68	PRO
17	c5	125	PRO
17	c5	127	ARG
18	c6	42	GLU
18	c6	113	ASP
18	c6	115	THR
18	c6	116	LEU
19	c7	63	LYS
19	c7	98	GLY
19	c7	104	ASN
19	c7	105	GLN
20	c8	91	ASP
20	c8	92	ILE
21	c9	29	GLU
21	c9	33	TYR
22	d0	15	GLN
22	d0	49	ASN
22	d0	51	VAL
22	d0	52	LYS
22	d0	97	VAL
23	d1	4	ASP
24	d2	56	HIS
26	d4	30	PRO
26	d4	33	ALA
26	d4	35	VAL
27	d5	104	ALA
29	d7	3	LEU
29	d7	59	CYS
31	d9	6	VAL
31	d9	7	TRP
80	e0	45	VAL
80	e0	51	ASN
80	e0	60	PRO
33	e1	84	VAL
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	103	LEU
33	e1	106	TYR
33	e1	111	GLU
34	sR	4	ASN

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Mol	Chain	Res	Type
34	sR	149	ASP
34	sR	165	ASP
34	sR	297	ASP
34	sR	318	ALA
35	sM	172	VAL
39	l2	24	GLN
39	l2	56	ALA
39	l2	104	LEU
39	l2	238	ILE
39	l2	249	SER
40	l3	129	ALA
40	l3	140	ASP
40	l3	142	ALA
40	l3	188	ILE
41	l4	14	GLU
41	l4	15	ALA
41	l4	90	PHE
41	l4	132	ALA
41	l4	301	PRO
41	l4	329	PRO
41	l4	330	TYR
41	l4	342	LYS
42	l5	260	PHE
42	l5	269	SER
42	l5	270	LYS
43	l6	98	VAL
45	l8	25	PRO
45	l8	81	THR
45	l8	120	LYS
45	l8	122	LYS
45	l8	123	GLN
46	l9	144	ILE
46	l9	167	VAL
47	m0	25	ALA
47	m0	82	ARG
47	m0	170	LYS
47	m0	220	GLN
48	m1	8	PRO
48	m1	10	ARG
48	m1	108	GLU
48	m1	115	LYS
49	m3	47	ALA

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Mol	Chain	Res	Type
49	m3	50	PRO
49	m3	76	THR
49	m3	93	ILE
49	m3	134	GLU
49	m3	135	ALA
49	m3	152	THR
49	m3	193	ALA
50	m4	135	LEU
50	m4	136	ALA
51	m5	76	PRO
51	m5	81	TYR
51	m5	182	ASN
51	m5	183	THR
52	m6	16	VAL
52	m6	110	PRO
52	m6	111	PRO
54	m8	99	THR
55	m9	36	ASN
57	n1	122	GLN
58	n2	50	LEU
60	n4	63	ILE
60	n4	76	VAL
62	n6	83	ASP
62	n6	126	LEU
63	n7	56	LYS
64	n8	28	HIS
64	n8	76	ASP
65	n9	5	LYS
65	n9	21	ILE
65	n9	23	LYS
65	n9	39	PHE
67	o1	84	ASP
68	o2	5	PRO
70	o4	79	SER
71	o5	82	ALA
72	o6	98	ARG
74	o8	17	ARG
74	o8	18	ALA
74	o8	19	ASP
76	q0	78	ILE
82	p0	93	LEU
82	p0	102	SER

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Mol	Chain	Res	Type
2	S0	5	ALA
2	S0	30	GLN
2	S0	49	ASN
2	S0	94	GLY
2	S0	95	ALA
2	S0	111	ILE
2	S0	139	VAL
2	S0	162	CYS
2	S0	192	THR
3	S1	26	ARG
3	S1	51	SER
3	S1	58	SER
3	S1	63	GLY
3	S1	93	GLY
3	S1	105	PHE
3	S1	148	ASN
3	S1	179	SER
3	S1	224	ASP
4	S2	107	SER
4	S2	248	SER
5	S3	218	LEU
6	S4	26	CYS
6	S4	175	PHE
6	S4	195	ILE
6	S4	228	ILE
6	S4	245	LYS
7	S5	45	LYS
7	S5	127	GLN
8	S6	54	GLY
8	S6	111	LEU
8	S6	123	GLY
9	S7	5	GLN
9	S7	29	ASN
9	S7	30	SER
9	S7	35	LYS
9	S7	67	LEU
9	S7	73	VAL
9	S7	155	ASP
9	S7	156	SER
9	S7	159	VAL
9	S7	163	ASP
10	S8	22	ARG

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Mol	Chain	Res	Type
10	S8	52	ASN
11	S9	163	PRO
12	C0	81	ASN
13	C1	55	ASP
13	C1	95	PRO
14	C2	25	GLU
14	C2	91	VAL
14	C2	126	TRP
14	C2	127	GLY
14	C2	130	THR
15	C3	12	SER
15	C3	22	ALA
15	C3	24	ALA
15	C3	68	GLY
16	C4	40	ALA
16	C4	42	VAL
16	C4	132	ARG
17	C5	22	LEU
17	C5	51	SER
18	C6	59	LYS
19	C7	113	LEU
19	C7	115	LEU
19	C7	122	ILE
20	C8	7	GLU
22	D0	49	ASN
23	D1	43	GLY
24	D2	66	ASN
24	D2	78	ARG
25	D3	128	SER
25	D3	131	SER
27	D5	39	ALA
27	D5	43	ASP
27	D5	44	GLN
27	D5	55	PRO
27	D5	56	THR
27	D5	97	LYS
28	D6	3	LYS
28	D6	63	ALA
28	D6	86	VAL
31	D9	6	VAL
32	E0	51	ASN
33	E1	83	LYS

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Mol	Chain	Res	Type
33	E1	93	HIS
33	E1	99	LYS
33	E1	110	ALA
33	E1	111	GLU
33	E1	128	ALA
33	E1	138	ARG
34	SR	3	SER
34	SR	160	GLU
34	SR	194	GLY
34	SR	269	TYR
35	SM	52	PRO
35	SM	87	THR
35	SM	89	ARG
35	SM	139	GLU
35	SM	154	TYR
35	SM	165	LYS
39	L2	70	ARG
39	L2	127	ALA
40	L3	138	ALA
40	L3	142	ALA
40	L3	351	LEU
41	L4	72	ALA
41	L4	130	ALA
41	L4	190	GLY
41	L4	291	ASN
42	L5	58	LYS
42	L5	148	ILE
42	L5	215	ASP
42	L5	253	PHE
43	L6	108	LYS
44	L7	25	GLN
44	L7	32	ALA
44	L7	175	LYS
45	L8	36	ILE
45	L8	122	LYS
45	L8	135	GLY
45	L8	156	ASP
47	M0	117	GLY
47	M0	145	LYS
48	M1	115	LYS
48	M1	151	SER
49	M3	141	ALA

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Mol	Chain	Res	Type
49	M3	163	GLY
50	M4	8	LYS
50	M4	36	VAL
52	M6	16	VAL
53	M7	161	ALA
54	M8	24	VAL
55	M9	112	ALA
55	M9	133	LYS
57	N1	159	PHE
58	N2	51	GLY
60	N4	97	LYS
61	N5	45	LYS
62	N6	53	ASP
62	N6	84	LYS
62	N6	92	GLY
63	N7	125	GLY
64	N8	66	ALA
65	N9	53	ALA
66	O0	71	GLN
68	O2	27	ARG
70	O4	74	ARG
70	O4	77	GLY
71	O5	97	ALA
72	O6	3	VAL
72	O6	97	SER
73	O7	86	ALA
76	Q0	78	ILE
78	Q2	30	ALA
78	Q2	94	GLY
2	s0	44	GLY
2	s0	139	VAL
3	s1	39	GLU
3	s1	61	LEU
3	s1	147	ALA
3	s1	233	GLY
4	s2	91	ARG
4	s2	107	SER
4	s2	163	GLY
5	s3	161	GLY
5	s3	179	GLN
6	s4	164	LEU
6	s4	195	ILE

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Mol	Chain	Res	Type
6	s4	245	LYS
7	s5	40	ILE
7	s5	43	PHE
7	s5	56	ALA
7	s5	101	GLY
7	s5	102	ARG
7	s5	204	GLY
8	s6	68	LEU
9	s7	7	LYS
9	s7	67	LEU
10	s8	149	SER
11	s9	147	MET
11	s9	183	ALA
12	c0	32	HIS
12	c0	82	LEU
12	c0	92	ILE
13	c1	80	MET
13	c1	121	ASP
14	c2	45	LEU
14	c2	89	ILE
14	c2	90	LYS
14	c2	106	ILE
14	c2	119	SER
15	c3	60	VAL
15	c3	87	ASP
15	c3	139	TRP
16	c4	58	TYR
16	c4	97	GLY
16	c4	109	GLY
17	c5	9	LYS
17	c5	14	THR
17	c5	49	MET
17	c5	65	LEU
17	c5	133	ALA
18	c6	39	VAL
18	c6	97	VAL
19	c7	113	LEU
19	c7	120	SER
20	c8	29	VAL
20	c8	135	GLY
21	c9	34	VAL
22	d0	118	VAL

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Mol	Chain	Res	Type
24	d2	68	ARG
25	d3	66	SER
25	d3	131	SER
26	d4	53	ASP
27	d5	103	ARG
28	d6	35	ALA
28	d6	45	VAL
28	d6	46	GLU
30	d8	33	LEU
30	d8	57	MET
30	d8	61	ARG
31	d9	11	PRO
33	e1	83	LYS
33	e1	102	VAL
33	e1	127	GLY
34	sR	96	THR
34	sR	160	GLU
34	sR	237	GLN
35	sM	47	ALA
35	sM	50	ASN
35	sM	66	ALA
35	sM	121	LYS
39	l2	32	LEU
39	l2	80	GLU
39	l2	130	SER
39	l2	194	ASN
40	l3	3	HIS
40	l3	22	ALA
40	l3	155	ALA
40	l3	239	PRO
40	l3	289	ASP
40	l3	347	SER
41	l4	43	ASN
41	l4	190	GLY
41	l4	311	HIS
42	l5	258	LYS
42	l5	277	LEU
42	l5	279	LYS
43	l6	97	ASN
44	l7	130	ILE
45	l8	39	ALA
45	l8	82	LEU

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Mol	Chain	Res	Type
45	l8	109	LEU
45	l8	133	LYS
45	l8	202	GLU
45	l8	223	ALA
45	l8	239	GLY
46	l9	109	ALA
46	l9	110	LYS
47	m0	100	ASN
47	m0	204	GLY
48	m1	9	MET
48	m1	39	GLN
48	m1	94	ARG
48	m1	116	TYR
48	m1	153	LYS
49	m3	44	ALA
49	m3	51	LEU
49	m3	129	ASN
49	m3	141	ALA
49	m3	150	PRO
52	m6	13	GLY
53	m7	67	ILE
54	m8	74	GLU
54	m8	108	ALA
54	m8	109	GLY
54	m8	147	ARG
55	m9	156	ASN
59	n3	134	GLY
60	n4	77	LYS
61	n5	25	LYS
62	n6	84	LYS
63	n7	16	GLY
63	n7	134	LEU
64	n8	120	ASN
67	o1	45	GLY
67	o1	83	GLU
68	o2	27	ARG
68	o2	124	GLY
69	o3	33	GLU
71	o5	29	ALA
71	o5	39	PRO
71	o5	119	LYS
72	o6	12	ASN

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Mol	Chain	Res	Type
72	o6	13	LYS
73	o7	87	SER
82	p0	33	VAL
82	p0	47	GLY
82	p0	198	PRO
2	S0	4	PRO
2	S0	39	ASN
3	S1	35	PRO
3	S1	54	LEU
3	S1	78	ASP
3	S1	79	HIS
3	S1	147	ALA
3	S1	158	SER
3	S1	209	ASN
3	S1	226	GLY
4	S2	39	THR
4	S2	47	ALA
4	S2	106	ASP
4	S2	236	PRO
5	S3	44	THR
6	S4	32	SER
6	S4	164	LEU
6	S4	200	ARG
6	S4	258	GLN
7	S5	51	VAL
7	S5	153	GLY
7	S5	206	SER
8	S6	39	GLU
8	S6	146	GLY
8	S6	148	SER
8	S6	152	ASP
8	S6	154	ARG
9	S7	98	ILE
10	S8	105	ASP
10	S8	152	ILE
10	S8	154	SER
11	S9	89	ASP
11	S9	150	LEU
12	C0	86	ILE
12	C0	87	VAL
13	C1	4	GLU
13	C1	72	THR

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Mol	Chain	Res	Type
13	C1	145	ALA
13	C1	146	ALA
13	C1	154	ALA
14	C2	21	GLU
14	C2	22	VAL
14	C2	83	GLU
14	C2	92	ALA
14	C2	106	ILE
14	C2	107	ASP
14	C2	112	ALA
15	C3	31	GLU
17	C5	54	ALA
17	C5	80	MET
17	C5	101	ALA
18	C6	116	LEU
19	C7	123	ASN
20	C8	61	LEU
20	C8	83	ALA
20	C8	92	ILE
23	D1	7	GLN
25	D3	3	LYS
25	D3	40	SER
25	D3	41	SER
25	D3	53	VAL
25	D3	70	LYS
25	D3	112	LYS
26	D4	97	ALA
26	D4	133	ASN
27	D5	93	SER
28	D6	55	GLU
29	D7	57	GLU
30	D8	14	LYS
33	E1	90	LYS
33	E1	118	ARG
34	SR	70	ASP
34	SR	114	ASP
34	SR	153	GLN
34	SR	189	GLU
34	SR	318	ALA
35	SM	88	ARG
35	SM	155	LEU
35	SM	174	LEU

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Mol	Chain	Res	Type
39	L2	250	GLN
40	L3	155	ALA
40	L3	185	GLY
41	L4	15	ALA
41	L4	90	PHE
41	L4	232	SER
42	L5	7	ALA
42	L5	260	PHE
43	L6	7	PRO
44	L7	164	SER
45	L8	39	ALA
48	M1	114	ILE
48	M1	117	ASP
48	M1	167	TYR
48	M1	173	ASP
49	M3	136	GLU
49	M3	165	SER
50	M4	6	ILE
50	M4	29	ALA
51	M5	75	VAL
53	M7	156	ALA
53	M7	164	LYS
55	M9	111	ASP
56	N0	170	THR
57	N1	114	ALA
57	N1	120	LYS
57	N1	125	ALA
58	N2	11	ILE
60	N4	64	THR
60	N4	69	LYS
63	N7	33	SER
63	N7	102	GLU
63	N7	103	GLN
64	N8	47	LYS
67	O1	60	TRP
67	O1	82	GLU
67	O1	84	ASP
69	O3	59	VAL
71	O5	10	ARG
71	O5	27	GLU
73	O7	51	ALA
74	O8	33	LYS

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Mol	Chain	Res	Type
78	Q2	15	LYS
78	Q2	34	SER
78	Q2	103	ALA
79	Q3	84	ARG
2	s0	8	ASP
2	s0	92	HIS
2	s0	94	GLY
2	s0	95	ALA
3	s1	26	ARG
3	s1	106	THR
3	s1	160	HIS
3	s1	161	ILE
4	s2	106	ASP
4	s2	234	PRO
5	s3	160	SER
5	s3	180	GLY
6	s4	3	ARG
6	s4	11	ARG
6	s4	189	LEU
6	s4	213	SER
7	s5	35	GLN
8	s6	152	ASP
8	s6	156	PHE
9	s7	6	ALA
11	s9	121	SER
11	s9	161	THR
11	s9	167	ALA
12	c0	3	MET
14	c2	21	GLU
14	c2	58	LEU
14	c2	93	ASP
14	c2	103	LEU
14	c2	108	ARG
15	c3	43	LYS
15	c3	137	PRO
15	c3	140	LYS
16	c4	32	ASP
16	c4	125	SER
17	c5	7	ALA
17	c5	10	ARG
17	c5	66	ALA
17	c5	126	VAL

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Mol	Chain	Res	Type
17	c5	136	SER
19	c7	15	ALA
19	c7	99	VAL
19	c7	116	LYS
20	c8	61	LEU
21	c9	119	LYS
22	d0	17	GLN
22	d0	96	PRO
23	d1	43	GLY
25	d3	119	GLY
25	d3	134	ALA
26	d4	36	SER
26	d4	58	PHE
26	d4	78	SER
27	d5	85	LYS
28	d6	8	ASN
28	d6	13	LYS
28	d6	34	LYS
28	d6	47	ALA
29	d7	38	PRO
31	d9	16	LYS
33	e1	81	LYS
33	e1	85	TYR
33	e1	128	ALA
34	sR	161	LYS
34	sR	163	ASP
34	sR	186	PHE
34	sR	279	ALA
35	sM	39	PRO
35	sM	42	ALA
35	sM	63	ASP
39	l2	215	ASN
40	l3	139	GLN
41	l4	232	SER
41	l4	302	ALA
42	l5	265	TYR
42	l5	266	ALA
43	l6	10	TYR
44	l7	129	LEU
44	l7	158	LYS
44	l7	191	VAL
45	l8	203	VAL

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Mol	Chain	Res	Type
45	l8	209	ALA
45	l8	237	ILE
47	m0	143	SER
47	m0	176	LEU
47	m0	194	GLY
47	m0	207	GLU
48	m1	167	TYR
49	m3	60	ALA
49	m3	130	GLY
55	m9	47	ASN
55	m9	155	LEU
56	n0	2	ALA
58	n2	27	VAL
60	n4	64	THR
61	n5	24	LEU
61	n5	40	LEU
61	n5	44	PRO
61	n5	45	LYS
61	n5	47	ALA
63	n7	127	ASN
65	n9	24	PRO
67	o1	86	LYS
69	o3	88	ASN
71	o5	43	LYS
73	o7	86	ALA
78	q2	74	CYS
2	S0	33	GLN
2	S0	36	TYR
2	S0	44	GLY
2	S0	103	THR
2	S0	190	ASP
3	S1	55	LYS
3	S1	81	PHE
4	S2	91	ARG
4	S2	145	GLY
4	S2	150	GLN
4	S2	183	ALA
4	S2	247	ALA
5	S3	89	GLU
5	S3	217	ILE
6	S4	5	PRO
6	S4	17	HIS

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Mol	Chain	Res	Type
7	S5	58	LEU
8	S6	112	VAL
8	S6	138	ALA
8	S6	149	LYS
9	S7	132	PRO
9	S7	186	PRO
11	S9	120	LYS
12	C0	34	GLU
12	C0	93	GLN
14	C2	66	VAL
14	C2	87	PRO
14	C2	119	SER
14	C2	125	ASN
14	C2	131	ASP
15	C3	3	ARG
15	C3	23	PRO
16	C4	24	ASN
16	C4	79	VAL
17	C5	52	LYS
17	C5	69	GLU
18	C6	33	GLY
18	C6	113	ASP
18	C6	142	TYR
19	C7	23	LYS
20	C8	139	LYS
21	C9	29	GLU
23	D1	10	GLU
25	D3	11	SER
25	D3	37	ALA
26	D4	5	VAL
26	D4	58	PHE
28	D6	5	ARG
28	D6	64	LEU
30	D8	16	LEU
30	D8	61	ARG
33	E1	85	TYR
33	E1	86	THR
33	E1	94	LYS
33	E1	137	ASP
34	SR	112	SER
34	SR	242	SER
34	SR	244	ALA

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Mol	Chain	Res	Type
35	SM	10	ASN
35	SM	173	GLU
40	L3	139	GLN
40	L3	348	ARG
40	L3	378	ALA
41	L4	5	GLN
41	L4	140	HIS
41	L4	233	LEU
41	L4	270	SER
42	L5	137	ASP
42	L5	221	GLU
42	L5	259	LYS
44	L7	91	GLY
44	L7	159	GLN
45	L8	47	SER
45	L8	138	HIS
45	L8	157	VAL
46	L9	164	ILE
48	M1	94	ARG
48	M1	108	GLU
49	M3	76	THR
51	M5	181	ASN
54	M8	91	ALA
54	M8	162	ALA
55	M9	53	LYS
57	N1	133	ALA
60	N4	91	LYS
61	N5	25	LYS
61	N5	128	ALA
71	O5	75	TYR
72	O6	13	LYS
72	O6	21	THR
76	Q0	79	GLU
78	Q2	8	ARG
78	Q2	17	CYS
79	Q3	85	ARG
2	s0	103	THR
3	s1	93	GLY
4	s2	144	TRP
4	s2	150	GLN
4	s2	235	LEU
4	s2	238	SER

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Mol	Chain	Res	Type
5	s3	43	PRO
5	s3	45	LYS
5	s3	76	ARG
6	s4	31	PRO
6	s4	168	LYS
6	s4	171	ASP
6	s4	255	ARG
7	s5	21	THR
7	s5	45	LYS
7	s5	60	ASP
7	s5	98	MET
9	s7	106	SER
10	s8	52	ASN
11	s9	55	ALA
12	c0	25	LYS
12	c0	95	ARG
13	c1	7	VAL
13	c1	146	ALA
17	c5	6	ASN
17	c5	17	TYR
17	c5	52	LYS
17	c5	69	GLU
17	c5	80	MET
20	c8	60	GLU
23	d1	10	GLU
24	d2	24	GLN
26	d4	11	LYS
26	d4	52	LYS
28	d6	59	TYR
30	d8	6	PRO
30	d8	64	ARG
30	d8	65	ARG
80	e0	61	SER
33	e1	124	PRO
33	e1	137	ASP
34	sR	250	TYR
35	sM	65	THR
35	sM	67	GLY
41	l4	233	LEU
41	l4	258	LEU
41	l4	272	VAL
45	l8	240	ASN

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Mol	Chain	Res	Type
46	l9	31	ARG
47	m0	102	MET
47	m0	193	ASP
47	m0	219	ALA
48	m1	117	ASP
49	m3	13	HIS
49	m3	45	LYS
49	m3	140	SER
49	m3	162	ASN
51	m5	11	GLN
52	m6	4	GLU
60	n4	71	ARG
61	n5	87	SER
62	n6	75	ARG
63	n7	125	GLY
64	n8	17	ALA
64	n8	24	LYS
64	n8	47	LYS
64	n8	129	PHE
66	o0	46	ALA
68	o2	6	HIS
68	o2	12	LYS
70	o4	78	GLY
70	o4	82	ALA
71	o5	83	LYS
71	o5	84	LYS
72	o6	4	LYS
73	o7	85	LYS
74	o8	15	THR
75	o9	44	TRP
78	q2	17	CYS
2	S0	195	TRP
3	S1	38	PHE
3	S1	154	SER
4	S2	36	VAL
4	S2	182	PRO
7	S5	21	THR
7	S5	54	LYS
7	S5	64	VAL
7	S5	156	ARG
9	S7	36	ALA
10	S8	59	ARG

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Mol	Chain	Res	Type
10	S8	81	VAL
10	S8	82	VAL
12	C0	27	PHE
13	C1	30	ARG
13	C1	71	LEU
14	C2	37	VAL
14	C2	108	ARG
15	C3	29	SER
17	C5	68	PRO
17	C5	130	ARG
20	C8	8	GLN
22	D0	16	GLN
22	D0	17	GLN
23	D1	12	TYR
24	D2	57	ARG
28	D6	11	ASN
33	E1	100	LEU
34	SR	217	ASP
35	SM	12	VAL
35	SM	53	ARG
40	L3	317	ILE
41	L4	223	PRO
42	L5	188	GLU
42	L5	214	ASP
42	L5	233	ALA
42	L5	295	GLY
43	L6	6	ALA
44	L7	217	PRO
47	M0	208	ASN
48	M1	95	ASN
51	M5	81	TYR
51	M5	183	THR
53	M7	160	ALA
58	N2	52	ASN
63	N7	128	GLN
66	O0	20	SER
67	O1	7	VAL
79	Q3	7	LYS
79	Q3	45	LYS
3	s1	129	THR
3	s1	177	GLN
3	s1	234	GLU

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Mol	Chain	Res	Type
5	s3	81	PRO
5	s3	142	LEU
5	s3	163	PRO
5	s3	203	PRO
5	s3	219	ALA
6	s4	96	ASN
6	s4	119	ALA
6	s4	163	ASP
7	s5	152	GLY
8	s6	69	LEU
8	s6	150	GLU
9	s7	10	SER
9	s7	11	GLN
9	s7	133	THR
10	s8	142	LYS
11	s9	169	PRO
12	c0	30	ALA
12	c0	35	ILE
13	c1	55	ASP
14	c2	87	PRO
14	c2	118	ALA
16	c4	92	LYS
16	c4	100	ALA
17	c5	100	LYS
17	c5	128	HIS
18	c6	4	VAL
19	c7	68	GLY
19	c7	97	ASN
20	c8	9	GLY
20	c8	14	ILE
23	d1	6	GLY
24	d2	31	SER
25	d3	29	TYR
25	d3	101	GLU
25	d3	133	LEU
29	d7	12	ALA
30	d8	62	GLU
80	e0	50	VAL
35	sM	43	ASP
35	sM	52	PRO
35	sM	68	ARG
35	sM	84	LYS

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Mol	Chain	Res	Type
41	l4	5	GLN
41	l4	257	LYS
41	l4	328	ASN
42	l5	178	ASN
44	l7	178	ILE
45	l8	76	ALA
45	l8	79	GLN
45	l8	117	ALA
45	l8	121	SER
45	l8	124	ASP
45	l8	196	ALA
47	m0	101	LYS
48	m1	114	ILE
53	m7	25	SER
53	m7	134	GLY
54	m8	112	ALA
57	n1	121	ALA
64	n8	48	TYR
64	n8	56	VAL
70	o4	47	CYS
72	o6	97	SER
77	q1	22	ALA
79	q3	51	ALA
2	S0	188	LEU
3	S1	22	ASP
3	S1	210	ILE
6	S4	53	LYS
8	S6	117	GLY
9	S7	14	THR
11	S9	118	LEU
11	S9	147	MET
11	S9	162	SER
13	C1	113	PRO
17	C5	29	SER
17	C5	53	PRO
19	C7	72	LYS
19	C7	84	TYR
19	C7	124	VAL
20	C8	125	ILE
24	D2	100	GLY
26	D4	60	PHE
28	D6	36	ILE

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Mol	Chain	Res	Type
30	D8	35	ASP
32	E0	50	VAL
33	E1	107	LYS
33	E1	148	TYR
40	L3	37	ARG
40	L3	300	ARG
41	L4	14	GLU
41	L4	79	GLY
42	L5	115	LEU
44	L7	178	ILE
46	L9	108	GLY
50	M4	28	SER
51	M5	94	TYR
58	N2	70	LYS
62	N6	125	LYS
68	O2	125	ARG
74	O8	8	ILE
74	O8	35	GLY
2	s0	4	PRO
2	s0	10	THR
3	s1	22	ASP
3	s1	207	LEU
4	s2	164	SER
6	s4	30	ARG
7	s5	100	ASN
7	s5	154	ALA
10	s8	78	ILE
12	c0	23	ALA
14	c2	26	ASP
15	c3	22	ALA
16	c4	114	ARG
19	c7	102	VAL
20	c8	94	ASP
21	c9	3	GLY
21	c9	28	LEU
21	c9	118	PRO
22	d0	45	ALA
80	e0	54	ARG
33	e1	126	CYS
33	e1	148	TYR
34	sR	185	GLN
40	l3	362	ALA

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Mol	Chain	Res	Type
43	l6	30	LEU
46	l9	85	GLY
48	m1	7	ASN
48	m1	38	GLU
48	m1	152	HIS
56	n0	129	ILE
60	n4	83	THR
62	n6	65	GLY
69	o3	59	VAL
70	o4	77	GLY
72	o6	9	ILE
75	o9	24	PRO
7	S5	187	ILE
8	S6	69	LEU
27	D5	54	VAL
41	L4	146	PRO
54	M8	183	GLY
74	O8	37	PRO
4	s2	83	ILE
80	e0	47	VAL
35	sM	166	VAL
40	l3	185	GLY
60	n4	98	PRO
14	C2	115	VAL
18	C6	97	VAL
19	C7	38	ILE
39	L2	13	GLY
56	N0	153	PRO
65	N9	21	ILE
72	O6	94	ILE
11	s9	185	GLY
14	c2	40	GLY
14	c2	82	PRO
19	c7	88	VAL
20	c8	28	ILE
35	sM	51	ARG
42	l5	135	VAL
56	n0	51	VAL
64	n8	110	GLY
74	o8	35	GLY
7	S5	151	GLY
8	S6	165	GLY

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Mol	Chain	Res	Type
12	C0	92	ILE
16	C4	75	GLY
34	SR	113	VAL
40	L3	141	GLY
42	L5	125	VAL
78	Q2	101	GLY
22	d0	19	ILE
26	d4	29	HIS
28	d6	58	VAL
42	l5	286	VAL
44	l7	193	PRO
66	o0	96	GLY
72	o6	3	VAL
9	S7	63	PRO
24	D2	77	PRO
27	D5	41	ILE
27	D5	88	ILE
33	E1	87	THR
40	L3	166	ILE
46	L9	98	PRO
62	N6	45	ILE
5	s3	199	PRO
14	c2	115	VAL
19	c7	117	LEU
39	l2	103	PRO
42	l5	125	VAL
59	n3	16	GLY
66	o0	100	ILE
70	o4	100	ILE
26	D4	75	VAL
28	D6	59	TYR
64	N8	70	LYS
4	s2	93	GLY
13	c1	113	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/209 (78%)	127 (77%)	37 (23%)	1	5
2	s0	165/209 (79%)	128 (78%)	37 (22%)	1	5
3	S1	191/223 (86%)	142 (74%)	49 (26%)	0	3
3	s1	192/223 (86%)	145 (76%)	47 (24%)	1	3
4	S2	176/204 (86%)	136 (77%)	40 (23%)	1	5
4	s2	176/204 (86%)	115 (65%)	61 (35%)	0	0
5	S3	182/194 (94%)	138 (76%)	44 (24%)	1	4
5	s3	182/194 (94%)	142 (78%)	40 (22%)	1	6
6	S4	221/221 (100%)	168 (76%)	53 (24%)	1	4
6	s4	221/221 (100%)	170 (77%)	51 (23%)	1	5
7	S5	173/190 (91%)	142 (82%)	31 (18%)	2	9
7	s5	173/190 (91%)	135 (78%)	38 (22%)	1	6
8	S6	188/201 (94%)	156 (83%)	32 (17%)	2	11
8	s6	187/201 (93%)	143 (76%)	44 (24%)	1	4
9	S7	165/169 (98%)	127 (77%)	38 (23%)	1	5
9	s7	165/169 (98%)	137 (83%)	28 (17%)	2	11
10	S8	150/161 (93%)	124 (83%)	26 (17%)	2	10
10	s8	150/161 (93%)	116 (77%)	34 (23%)	1	5
11	S9	158/165 (96%)	121 (77%)	37 (23%)	1	4
11	s9	158/165 (96%)	115 (73%)	43 (27%)	0	2
12	C0	77/98 (79%)	60 (78%)	17 (22%)	1	5
12	c0	73/98 (74%)	63 (86%)	10 (14%)	3	18
13	C1	129/136 (95%)	107 (83%)	22 (17%)	2	11
13	c1	129/136 (95%)	104 (81%)	25 (19%)	1	8
14	C2	88/118 (75%)	65 (74%)	23 (26%)	0	3
14	c2	88/118 (75%)	63 (72%)	25 (28%)	0	2
15	C3	127/127 (100%)	103 (81%)	24 (19%)	1	9
15	c3	127/127 (100%)	93 (73%)	34 (27%)	0	2
16	C4	81/104 (78%)	54 (67%)	27 (33%)	0	1
16	c4	97/104 (93%)	75 (77%)	22 (23%)	1	5
17	C5	101/117 (86%)	80 (79%)	21 (21%)	1	7
17	c5	103/117 (88%)	81 (79%)	22 (21%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	C6	117/118 (99%)	93 (80%)	24 (20%)	1	7
18	c6	118/118 (100%)	98 (83%)	20 (17%)	2	11
19	C7	94/124 (76%)	75 (80%)	19 (20%)	1	7
19	c7	92/124 (74%)	73 (79%)	19 (21%)	1	7
20	C8	128/128 (100%)	97 (76%)	31 (24%)	1	4
20	c8	128/128 (100%)	98 (77%)	30 (23%)	1	4
21	C9	115/115 (100%)	84 (73%)	31 (27%)	0	2
21	c9	115/115 (100%)	92 (80%)	23 (20%)	1	7
22	D0	100/113 (88%)	70 (70%)	30 (30%)	0	1
22	d0	103/113 (91%)	71 (69%)	32 (31%)	0	1
23	D1	74/74 (100%)	54 (73%)	20 (27%)	0	2
23	d1	74/74 (100%)	56 (76%)	18 (24%)	1	4
24	D2	110/110 (100%)	84 (76%)	26 (24%)	1	4
24	d2	110/110 (100%)	93 (84%)	17 (16%)	2	14
25	D3	119/119 (100%)	94 (79%)	25 (21%)	1	6
25	d3	119/119 (100%)	92 (77%)	27 (23%)	1	5
26	D4	112/112 (100%)	87 (78%)	25 (22%)	1	5
26	d4	112/112 (100%)	88 (79%)	24 (21%)	1	6
27	D5	61/88 (69%)	44 (72%)	17 (28%)	0	2
27	d5	61/88 (69%)	49 (80%)	12 (20%)	1	8
28	D6	83/83 (100%)	68 (82%)	15 (18%)	2	9
28	d6	83/83 (100%)	66 (80%)	17 (20%)	1	7
29	D7	70/70 (100%)	61 (87%)	9 (13%)	4	20
29	d7	70/70 (100%)	59 (84%)	11 (16%)	2	13
30	D8	56/59 (95%)	43 (77%)	13 (23%)	1	5
30	d8	56/59 (95%)	41 (73%)	15 (27%)	0	2
31	D9	47/48 (98%)	40 (85%)	7 (15%)	3	15
31	d9	47/48 (98%)	35 (74%)	12 (26%)	0	3
32	E0	51/51 (100%)	37 (72%)	14 (28%)	0	2
33	E1	62/66 (94%)	48 (77%)	14 (23%)	1	5
33	e1	66/66 (100%)	46 (70%)	20 (30%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	SR	260/261 (100%)	211 (81%)	49 (19%)	1	9
34	sR	260/261 (100%)	225 (86%)	35 (14%)	4	19
35	SM	97/228 (42%)	72 (74%)	25 (26%)	0	3
35	sM	54/228 (24%)	40 (74%)	14 (26%)	0	3
39	L2	193/195 (99%)	147 (76%)	46 (24%)	1	4
39	l2	192/195 (98%)	154 (80%)	38 (20%)	1	8
40	L3	321/322 (100%)	235 (73%)	86 (27%)	0	2
40	l3	321/322 (100%)	245 (76%)	76 (24%)	1	4
41	L4	288/288 (100%)	225 (78%)	63 (22%)	1	5
41	l4	288/288 (100%)	220 (76%)	68 (24%)	1	4
42	L5	244/244 (100%)	188 (77%)	56 (23%)	1	5
42	l5	243/244 (100%)	188 (77%)	55 (23%)	1	5
43	L6	134/152 (88%)	113 (84%)	21 (16%)	2	13
43	l6	135/152 (89%)	109 (81%)	26 (19%)	1	8
44	L7	186/204 (91%)	151 (81%)	35 (19%)	1	9
44	l7	187/204 (92%)	158 (84%)	29 (16%)	2	14
45	L8	187/207 (90%)	146 (78%)	41 (22%)	1	5
45	l8	177/207 (86%)	138 (78%)	39 (22%)	1	6
46	L9	171/171 (100%)	130 (76%)	41 (24%)	1	4
46	l9	171/171 (100%)	129 (75%)	42 (25%)	1	3
47	M0	177/186 (95%)	141 (80%)	36 (20%)	1	7
47	m0	179/186 (96%)	137 (76%)	42 (24%)	1	4
48	M1	147/150 (98%)	108 (74%)	39 (26%)	0	3
48	m1	147/150 (98%)	111 (76%)	36 (24%)	1	3
49	M3	154/158 (98%)	125 (81%)	29 (19%)	1	9
49	m3	154/158 (98%)	123 (80%)	31 (20%)	1	7
50	M4	107/108 (99%)	86 (80%)	21 (20%)	1	8
50	m4	108/108 (100%)	78 (72%)	30 (28%)	0	2
51	M5	175/175 (100%)	144 (82%)	31 (18%)	2	10
51	m5	175/175 (100%)	142 (81%)	33 (19%)	1	9
52	M6	160/161 (99%)	130 (81%)	30 (19%)	1	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
52	m6	160/161 (99%)	119 (74%)	41 (26%)	0	3
53	M7	140/145 (97%)	103 (74%)	37 (26%)	0	3
53	m7	125/145 (86%)	93 (74%)	32 (26%)	0	3
54	M8	150/150 (100%)	122 (81%)	28 (19%)	1	9
54	m8	150/150 (100%)	110 (73%)	40 (27%)	0	3
55	M9	153/153 (100%)	115 (75%)	38 (25%)	1	3
55	m9	153/153 (100%)	115 (75%)	38 (25%)	1	3
56	N0	156/156 (100%)	123 (79%)	33 (21%)	1	6
56	n0	156/156 (100%)	113 (72%)	43 (28%)	0	2
57	N1	136/136 (100%)	103 (76%)	33 (24%)	1	4
57	n1	136/136 (100%)	103 (76%)	33 (24%)	1	4
58	N2	87/106 (82%)	72 (83%)	15 (17%)	2	10
58	n2	85/106 (80%)	65 (76%)	20 (24%)	1	4
59	N3	104/104 (100%)	80 (77%)	24 (23%)	1	5
59	n3	104/104 (100%)	90 (86%)	14 (14%)	4	19
60	N4	57/129 (44%)	49 (86%)	8 (14%)	3	17
60	n4	100/129 (78%)	85 (85%)	15 (15%)	3	15
61	N5	104/117 (89%)	77 (74%)	27 (26%)	0	3
61	n5	104/117 (89%)	82 (79%)	22 (21%)	1	6
62	N6	109/109 (100%)	80 (73%)	29 (27%)	0	3
62	n6	109/109 (100%)	81 (74%)	28 (26%)	0	3
63	N7	115/115 (100%)	88 (76%)	27 (24%)	1	4
63	n7	115/115 (100%)	90 (78%)	25 (22%)	1	6
64	N8	118/118 (100%)	94 (80%)	24 (20%)	1	7
64	n8	118/118 (100%)	93 (79%)	25 (21%)	1	6
65	N9	46/46 (100%)	33 (72%)	13 (28%)	0	2
65	n9	46/46 (100%)	33 (72%)	13 (28%)	0	2
66	O0	81/87 (93%)	62 (76%)	19 (24%)	1	4
66	o0	84/87 (97%)	67 (80%)	17 (20%)	1	7
67	O1	92/96 (96%)	63 (68%)	29 (32%)	0	1
67	o1	94/96 (98%)	67 (71%)	27 (29%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
68	O2	109/110 (99%)	82 (75%)	27 (25%)	1	3
68	o2	109/110 (99%)	80 (73%)	29 (27%)	0	3
69	O3	90/90 (100%)	75 (83%)	15 (17%)	2	11
69	o3	90/90 (100%)	74 (82%)	16 (18%)	2	10
70	O4	95/102 (93%)	77 (81%)	18 (19%)	1	9
70	o4	95/102 (93%)	75 (79%)	20 (21%)	1	6
71	O5	104/104 (100%)	77 (74%)	27 (26%)	0	3
71	o5	103/104 (99%)	75 (73%)	28 (27%)	0	2
72	O6	81/81 (100%)	59 (73%)	22 (27%)	0	2
72	o6	80/81 (99%)	56 (70%)	24 (30%)	0	1
73	O7	70/70 (100%)	55 (79%)	15 (21%)	1	6
73	o7	70/70 (100%)	54 (77%)	16 (23%)	1	5
74	O8	68/68 (100%)	53 (78%)	15 (22%)	1	5
74	o8	67/68 (98%)	53 (79%)	14 (21%)	1	6
75	O9	45/45 (100%)	30 (67%)	15 (33%)	0	1
75	o9	45/45 (100%)	38 (84%)	7 (16%)	2	13
76	Q0	47/47 (100%)	36 (77%)	11 (23%)	1	4
76	q0	47/47 (100%)	36 (77%)	11 (23%)	1	4
77	Q1	23/23 (100%)	12 (52%)	11 (48%)	0	0
77	q1	23/23 (100%)	17 (74%)	6 (26%)	0	3
78	Q2	90/90 (100%)	69 (77%)	21 (23%)	1	5
78	q2	90/90 (100%)	70 (78%)	20 (22%)	1	5
79	Q3	71/71 (100%)	54 (76%)	17 (24%)	1	4
79	q3	71/71 (100%)	51 (72%)	20 (28%)	0	2
80	e0	53/53 (100%)	37 (70%)	16 (30%)	0	1
82	p0	105/253 (42%)	84 (80%)	21 (20%)	1	7
All	All	18730/20241 (92%)	14509 (78%)	4221 (22%)	1	5

All (4221) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	7	PHE

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Mol	Chain	Res	Type
2	S0	28	ASN
2	S0	32	HIS
2	S0	34	GLU
2	S0	37	VAL
2	S0	43	ASP
2	S0	47	VAL
2	S0	50	VAL
2	S0	52	LYS
2	S0	56	LYS
2	S0	72	ASP
2	S0	74	VAL
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	93	THR
2	S0	96	THR
2	S0	101	ARG
2	S0	103	THR
2	S0	110	TYR
2	S0	112	THR
2	S0	113	ARG
2	S0	123	VAL
2	S0	131	GLN
2	S0	135	GLU
2	S0	154	GLU
2	S0	156	VAL
2	S0	157	ASP
2	S0	158	VAL
2	S0	165	ARG
2	S0	170	ILE
2	S0	172	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	189	VAL
2	S0	196	SER
3	S1	21	VAL
3	S1	22	ASP
3	S1	25	THR
3	S1	29	TRP
3	S1	30	PHE
3	S1	32	ILE
3	S1	39	GLU

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Mol	Chain	Res	Type
3	S1	43	VAL
3	S1	46	THR
3	S1	47	LEU
3	S1	61	LEU
3	S1	65	VAL
3	S1	68	VAL
3	S1	70	LEU
3	S1	77	GLU
3	S1	81	PHE
3	S1	82	ARG
3	S1	85	LYS
3	S1	89	ASP
3	S1	96	LEU
3	S1	97	LEU
3	S1	101	HIS
3	S1	105	PHE
3	S1	107	THR
3	S1	108	ASP
3	S1	110	LEU
3	S1	115	ARG
3	S1	125	VAL
3	S1	135	LEU
3	S1	153	HIS
3	S1	154	SER
3	S1	170	GLU
3	S1	174	LYS
3	S1	176	VAL
3	S1	180	THR
3	S1	181	LEU
3	S1	186	SER
3	S1	193	ILE
3	S1	198	GLU
3	S1	202	LYS
3	S1	207	LEU
3	S1	214	LYS
3	S1	215	VAL
3	S1	217	LEU
3	S1	218	LEU
3	S1	220	GLN
3	S1	229	MET
3	S1	231	LEU
3	S1	232	HIS

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Mol	Chain	Res	Type
4	S2	41	LEU
4	S2	50	ILE
4	S2	58	LEU
4	S2	69	ILE
4	S2	72	LEU
4	S2	73	LEU
4	S2	76	LEU
4	S2	80	VAL
4	S2	87	GLN
4	S2	89	GLN
4	S2	90	THR
4	S2	91	ARG
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	121	VAL
4	S2	125	ILE
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	140	ARG
4	S2	141	ARG
4	S2	148	LEU
4	S2	153	SER
4	S2	154	LEU
4	S2	166	THR
4	S2	170	ILE
4	S2	181	SER
4	S2	193	VAL
4	S2	207	LEU
4	S2	221	THR
4	S2	222	TYR
4	S2	226	THR
4	S2	235	LEU
4	S2	237	VAL
4	S2	242	ILE
4	S2	246	GLU
4	S2	250	GLN
5	S3	4	LEU
5	S3	9	ARG

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Mol	Chain	Res	Type
5	S3	21	LEU
5	S3	23	GLU
5	S3	26	THR
5	S3	37	VAL
5	S3	39	VAL
5	S3	65	ARG
5	S3	66	ILE
5	S3	74	GLN
5	S3	78	LYS
5	S3	84	ILE
5	S3	89	GLU
5	S3	92	GLN
5	S3	93	ASP
5	S3	94	ARG
5	S3	111	ASN
5	S3	113	LEU
5	S3	117	ARG
5	S3	122	VAL
5	S3	124	ARG
5	S3	132	LYS
5	S3	134	CYS
5	S3	136	VAL
5	S3	142	LEU
5	S3	143	ARG
5	S3	146	ARG
5	S3	151	LYS
5	S3	158	ILE
5	S3	168	ILE
5	S3	170	THR
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	178	ARG
5	S3	181	VAL
5	S3	182	LEU
5	S3	188	ILE
5	S3	202	LEU
5	S3	207	THR
5	S3	212	LYS
5	S3	217	ILE
5	S3	218	LEU
5	S3	222	VAL

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Mol	Chain	Res	Type
6	S4	5	PRO
6	S4	6	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	21	ASP
6	S4	23	LEU
6	S4	26	CYS
6	S4	38	LEU
6	S4	45	ILE
6	S4	52	LEU
6	S4	56	LEU
6	S4	62	LYS
6	S4	65	LEU
6	S4	68	ARG
6	S4	69	HIS
6	S4	76	VAL
6	S4	77	ARG
6	S4	78	THR
6	S4	92	LEU
6	S4	93	ASP
6	S4	95	THR
6	S4	105	VAL
6	S4	108	ARG
6	S4	115	THR
6	S4	116	ASP
6	S4	117	GLU
6	S4	123	LEU
6	S4	126	VAL
6	S4	128	LYS
6	S4	131	LEU
6	S4	133	LYS
6	S4	141	THR
6	S4	155	LYS
6	S4	160	VAL
6	S4	164	LEU
6	S4	170	THR
6	S4	180	LEU
6	S4	181	VAL
6	S4	187	ARG
6	S4	189	LEU
6	S4	192	ILE
6	S4	214	LEU

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Mol	Chain	Res	Type
6	S4	215	ASP
6	S4	220	THR
6	S4	221	ARG
6	S4	228	ILE
6	S4	236	ILE
6	S4	240	LYS
6	S4	246	LEU
6	S4	247	SER
6	S4	248	ILE
6	S4	258	GLN
6	S4	259	GLN
7	S5	25	LEU
7	S5	32	GLU
7	S5	38	THR
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	49	GLU
7	S5	53	VAL
7	S5	59	VAL
7	S5	63	GLN
7	S5	66	GLN
7	S5	76	ARG
7	S5	81	ARG
7	S5	89	ILE
7	S5	93	LEU
7	S5	94	THR
7	S5	97	LEU
7	S5	99	MET
7	S5	119	ASP
7	S5	121	ILE
7	S5	132	VAL
7	S5	147	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	162	VAL
7	S5	166	ARG
7	S5	190	ILE
7	S5	194	LEU
7	S5	211	ILE
7	S5	224	ASN
7	S5	225	ARG

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Mol	Chain	Res	Type
8	S6	3	LEU
8	S6	6	SER
8	S6	13	GLN
8	S6	14	LYS
8	S6	25	ARG
8	S6	36	VAL
8	S6	43	ASP
8	S6	45	PHE
8	S6	51	LYS
8	S6	58	LYS
8	S6	67	VAL
8	S6	76	LEU
8	S6	78	THR
8	S6	79	LYS
8	S6	82	SER
8	S6	98	ARG
8	S6	109	LEU
8	S6	113	ILE
8	S6	120	GLU
8	S6	122	GLU
8	S6	127	THR
8	S6	128	THR
8	S6	132	ARG
8	S6	133	LEU
8	S6	155	ASP
8	S6	162	VAL
8	S6	170	THR
8	S6	175	ILE
8	S6	201	GLN
8	S6	211	LEU
8	S6	212	LEU
8	S6	223	LYS
9	S7	7	LYS
9	S7	9	LEU
9	S7	14	THR
9	S7	24	PHE
9	S7	28	GLU
9	S7	33	GLU
9	S7	37	GLU
9	S7	42	GLN
9	S7	49	ILE
9	S7	50	ASP

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Mol	Chain	Res	Type
9	S7	51	VAL
9	S7	62	VAL
9	S7	67	LEU
9	S7	73	VAL
9	S7	74	GLN
9	S7	75	THR
9	S7	77	LEU
9	S7	85	PHE
9	S7	87	ASP
9	S7	91	ILE
9	S7	97	ARG
9	S7	104	ARG
9	S7	106	SER
9	S7	108	GLN
9	S7	114	ARG
9	S7	123	ASP
9	S7	126	LEU
9	S7	130	VAL
9	S7	136	VAL
9	S7	144	VAL
9	S7	147	ASN
9	S7	149	ILE
9	S7	156	SER
9	S7	163	ASP
9	S7	167	GLU
9	S7	176	LEU
9	S7	185	ILE
9	S7	186	PRO
10	S8	7	SER
10	S8	8	ARG
10	S8	21	PHE
10	S8	22	ARG
10	S8	29	LEU
10	S8	36	THR
10	S8	37	LYS
10	S8	46	VAL
10	S8	58	LEU
10	S8	60	ILE
10	S8	66	SER
10	S8	70	GLU
10	S8	74	LYS
10	S8	78	ILE

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Mol	Chain	Res	Type
10	S8	93	THR
10	S8	107	THR
10	S8	123	LYS
10	S8	135	LYS
10	S8	138	ASN
10	S8	151	LYS
10	S8	152	ILE
10	S8	155	SER
10	S8	158	SER
10	S8	161	SER
10	S8	184	LEU
10	S8	196	LEU
11	S9	6	ARG
11	S9	7	THR
11	S9	14	THR
11	S9	21	SER
11	S9	28	LEU
11	S9	30	LEU
11	S9	40	LYS
11	S9	46	SER
11	S9	49	LEU
11	S9	64	GLU
11	S9	78	ARG
11	S9	82	ARG
11	S9	83	VAL
11	S9	92	LYS
11	S9	93	LEU
11	S9	94	ASP
11	S9	96	VAL
11	S9	97	LEU
11	S9	99	LEU
11	S9	101	VAL
11	S9	106	GLU
11	S9	109	LEU
11	S9	110	GLN
11	S9	113	VAL
11	S9	115	LYS
11	S9	121	SER
11	S9	123	HIS
11	S9	134	ILE
11	S9	138	LYS
11	S9	140	ILE

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Mol	Chain	Res	Type
11	S9	149	ARG
11	S9	161	THR
11	S9	162	SER
11	S9	171	ARG
11	S9	172	VAL
11	S9	175	ARG
11	S9	182	GLU
12	C0	5	LYS
12	C0	6	GLU
12	C0	13	GLN
12	C0	20	VAL
12	C0	28	ASN
12	C0	31	LYS
12	C0	40	LEU
12	C0	46	LEU
12	C0	49	LEU
12	C0	52	LYS
12	C0	55	VAL
12	C0	56	LYS
12	C0	57	THR
12	C0	76	LEU
12	C0	78	GLU
12	C0	80	LEU
12	C0	82	LEU
13	C1	21	ASN
13	C1	25	VAL
13	C1	29	LYS
13	C1	30	ARG
13	C1	31	THR
13	C1	40	LEU
13	C1	43	LYS
13	C1	44	THR
13	C1	54	ILE
13	C1	63	LEU
13	C1	64	VAL
13	C1	67	ARG
13	C1	70	ILE
13	C1	74	THR
13	C1	80	MET
13	C1	91	LEU
13	C1	107	VAL
13	C1	127	GLN

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Mol	Chain	Res	Type
13	C1	131	ILE
13	C1	138	ASN
13	C1	140	VAL
13	C1	141	LYS
14	C2	28	LEU
14	C2	33	ARG
14	C2	37	VAL
14	C2	43	ARG
14	C2	45	LEU
14	C2	46	ARG
14	C2	49	THR
14	C2	50	LYS
14	C2	52	LEU
14	C2	54	ARG
14	C2	58	LEU
14	C2	59	LEU
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	86	VAL
14	C2	89	ILE
14	C2	90	LYS
14	C2	103	LEU
14	C2	129	GLU
14	C2	132	GLU
14	C2	139	HIS
15	C3	6	SER
15	C3	16	ILE
15	C3	27	LYS
15	C3	32	SER
15	C3	33	VAL
15	C3	39	LYS
15	C3	43	LYS
15	C3	45	LEU
15	C3	61	THR
15	C3	64	ARG
15	C3	66	ILE
15	C3	80	LEU
15	C3	83	GLU
15	C3	88	LEU
15	C3	96	VAL

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Mol	Chain	Res	Type
15	C3	102	LEU
15	C3	105	ASN
15	C3	114	ARG
15	C3	115	LEU
15	C3	125	LEU
15	C3	131	THR
15	C3	134	VAL
15	C3	145	THR
15	C3	147	SER
16	C4	16	VAL
16	C4	24	ASN
16	C4	26	THR
16	C4	30	VAL
16	C4	31	THR
16	C4	38	THR
16	C4	39	ILE
16	C4	42	VAL
16	C4	46	MET
16	C4	48	VAL
16	C4	55	SER
16	C4	76	ILE
16	C4	81	VAL
16	C4	84	ARG
16	C4	89	THR
16	C4	90	ARG
16	C4	92	LYS
16	C4	93	THR
16	C4	103	ARG
16	C4	114	ARG
16	C4	118	VAL
16	C4	119	THR
16	C4	123	SER
16	C4	125	SER
16	C4	126	THR
16	C4	133	ARG
16	C4	137	LEU
17	C5	11	VAL
17	C5	14	THR
17	C5	22	LEU
17	C5	29	SER
17	C5	34	VAL
17	C5	36	LEU

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Mol	Chain	Res	Type
17	C5	44	ARG
17	C5	52	LYS
17	C5	60	LEU
17	C5	80	MET
17	C5	84	ILE
17	C5	86	VAL
17	C5	89	MET
17	C5	98	ASN
17	C5	105	VAL
17	C5	106	GLU
17	C5	110	GLU
17	C5	116	LEU
17	C5	121	ILE
17	C5	124	THR
17	C5	125	PRO
18	C6	14	LYS
18	C6	19	VAL
18	C6	28	LEU
18	C6	36	ILE
18	C6	43	ILE
18	C6	52	LEU
18	C6	53	LEU
18	C6	54	LEU
18	C6	57	LEU
18	C6	66	ARG
18	C6	69	VAL
18	C6	94	GLN
18	C6	98	ASP
18	C6	104	GLU
18	C6	105	LEU
18	C6	106	LYS
18	C6	114	ARG
18	C6	116	LEU
18	C6	117	LEU
18	C6	118	ILE
18	C6	128	LYS
18	C6	136	SER
18	C6	137	ARG
18	C6	143	ARG
19	C7	5	ARG
19	C7	6	THR
19	C7	25	THR

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Mol	Chain	Res	Type
19	C7	34	LEU
19	C7	36	ASP
19	C7	38	ILE
19	C7	40	THR
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	83	GLN
19	C7	88	VAL
19	C7	105	GLN
19	C7	108	ASP
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	6	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	15	LEU
20	C8	18	LEU
20	C8	25	ASN
20	C8	26	ILE
20	C8	28	ILE
20	C8	32	LEU
20	C8	34	THR
20	C8	36	LYS
20	C8	41	ARG
20	C8	46	VAL
20	C8	60	GLU
20	C8	61	LEU
20	C8	72	ILE
20	C8	80	LYS
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	101	LEU
20	C8	108	LYS
20	C8	114	GLU

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Mol	Chain	Res	Type
20	C8	116	LEU
20	C8	136	GLN
20	C8	138	THR
20	C8	141	THR
20	C8	143	ARG
21	C9	4	VAL
21	C9	6	VAL
21	C9	13	ASP
21	C9	22	LEU
21	C9	27	LYS
21	C9	28	LEU
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	39	THR
21	C9	41	SER
21	C9	57	ARG
21	C9	63	ARG
21	C9	67	MET
21	C9	70	GLN
21	C9	71	VAL
21	C9	84	LYS
21	C9	94	ILE
21	C9	103	LYS
21	C9	104	VAL
21	C9	110	LYS
21	C9	111	ILE
21	C9	116	ILE
21	C9	122	ARG
21	C9	123	ARG
21	C9	124	ILE
21	C9	126	GLU
21	C9	131	ASP
21	C9	132	LEU
21	C9	139	THR
21	C9	144	GLU
22	D0	15	GLN
22	D0	18	GLN
22	D0	19	ILE
22	D0	20	ILE
22	D0	22	ILE
22	D0	23	ARG

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Mol	Chain	Res	Type
22	D0	25	THR
22	D0	27	THR
22	D0	31	VAL
22	D0	34	LEU
22	D0	35	GLU
22	D0	39	SER
22	D0	40	ASN
22	D0	41	ILE
22	D0	49	ASN
22	D0	51	VAL
22	D0	58	LEU
22	D0	61	LYS
22	D0	63	LEU
22	D0	68	ARG
22	D0	74	GLU
22	D0	76	SER
22	D0	81	THR
22	D0	89	ARG
22	D0	99	ILE
22	D0	103	ILE
22	D0	106	ILE
22	D0	108	ILE
22	D0	114	VAL
22	D0	121	ASN
23	D1	1	MET
23	D1	3	ASN
23	D1	7	GLN
23	D1	8	LEU
23	D1	9	VAL
23	D1	11	LEU
23	D1	12	TYR
23	D1	18	SER
23	D1	24	ILE
23	D1	27	ASP
23	D1	32	VAL
23	D1	36	VAL
23	D1	41	GLU
23	D1	52	THR
23	D1	68	SER
23	D1	69	LEU
23	D1	78	LEU
23	D1	80	LYS

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Mol	Chain	Res	Type
23	D1	82	VAL
23	D1	87	ARG
24	D2	2	THR
24	D2	7	LEU
24	D2	12	ASN
24	D2	14	ILE
24	D2	22	LYS
24	D2	23	ARG
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	47	ILE
24	D2	49	GLU
24	D2	53	ILE
24	D2	56	HIS
24	D2	65	LEU
24	D2	70	ASN
24	D2	74	VAL
24	D2	76	SER
24	D2	83	ILE
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	110	ILE
24	D2	121	VAL
24	D2	126	LEU
24	D2	129	VAL
25	D3	7	ARG
25	D3	9	LEU
25	D3	16	ARG
25	D3	19	ARG
25	D3	28	ASN
25	D3	31	LYS
25	D3	32	ARG
25	D3	36	THR
25	D3	40	SER
25	D3	47	SER
25	D3	52	ILE
25	D3	63	GLN
25	D3	69	ARG
25	D3	72	VAL

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Mol	Chain	Res	Type
25	D3	75	GLN
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG
25	D3	110	LYS
25	D3	114	LYS
25	D3	117	ILE
25	D3	120	VAL
25	D3	132	LEU
25	D3	141	GLU
26	D4	13	ILE
26	D4	17	LEU
26	D4	24	VAL
26	D4	28	LEU
26	D4	29	HIS
26	D4	34	ASN
26	D4	36	SER
26	D4	40	LEU
26	D4	51	GLU
26	D4	52	LYS
26	D4	57	VAL
26	D4	61	ARG
26	D4	62	THR
26	D4	70	VAL
26	D4	79	VAL
26	D4	81	GLU
26	D4	96	LEU
26	D4	100	VAL
26	D4	102	LYS
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
26	D4	131	ARG
26	D4	132	ARG
26	D4	133	ASN
27	D5	40	VAL
27	D5	42	LEU
27	D5	58	ARG
27	D5	60	VAL
27	D5	62	VAL
27	D5	63	SER

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Mol	Chain	Res	Type
27	D5	67	ASP
27	D5	71	ILE
27	D5	75	LEU
27	D5	78	ILE
27	D5	83	LEU
27	D5	85	LYS
27	D5	90	LYS
27	D5	92	ILE
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
28	D6	27	SER
28	D6	36	ILE
28	D6	41	ILE
28	D6	44	ILE
28	D6	57	SER
28	D6	61	GLU
28	D6	64	LEU
28	D6	68	TYR
28	D6	70	LYS
28	D6	76	SER
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	87	ARG
29	D7	3	LEU
29	D7	4	VAL
29	D7	29	ARG
29	D7	33	LEU
29	D7	38	PRO
29	D7	40	CYS
29	D7	42	ASN
29	D7	60	SER
29	D7	75	GLU
30	D8	13	ILE
30	D8	15	VAL
30	D8	19	THR
30	D8	32	PHE
30	D8	36	THR
30	D8	38	ARG
30	D8	39	THR

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Mol	Chain	Res	Type
30	D8	41	VAL
30	D8	49	ARG
30	D8	51	ASN
30	D8	57	MET
30	D8	58	GLU
30	D8	64	ARG
31	D9	5	ASN
31	D9	12	ARG
31	D9	22	ARG
31	D9	28	THR
31	D9	31	ILE
31	D9	32	ARG
31	D9	36	LEU
32	E0	3	LYS
32	E0	14	VAL
32	E0	21	VAL
32	E0	25	GLU
32	E0	26	LYS
32	E0	31	LYS
32	E0	42	ARG
32	E0	43	ARG
32	E0	47	VAL
32	E0	48	THR
32	E0	49	LEU
32	E0	50	VAL
32	E0	54	ARG
32	E0	56	MET
33	E1	83	LYS
33	E1	91	ILE
33	E1	96	LYS
33	E1	97	LYS
33	E1	108	VAL
33	E1	113	LYS
33	E1	115	THR
33	E1	120	GLU
33	E1	130	VAL
33	E1	137	ASP
33	E1	139	LEU
33	E1	146	SER
33	E1	147	VAL
33	E1	150	VAL
34	SR	6	VAL

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Mol	Chain	Res	Type
34	SR	7	LEU
34	SR	8	VAL
34	SR	16	HIS
34	SR	21	THR
34	SR	37	SER
34	SR	44	SER
34	SR	48	THR
34	SR	50	ASP
34	SR	52	GLN
34	SR	58	VAL
34	SR	59	ARG
34	SR	60	SER
34	SR	70	ASP
34	SR	76	ASP
34	SR	81	LEU
34	SR	94	VAL
34	SR	96	THR
34	SR	117	LYS
34	SR	133	VAL
34	SR	136	ILE
34	SR	137	LYS
34	SR	141	LEU
34	SR	143	THR
34	SR	144	LEU
34	SR	145	LEU
34	SR	149	ASP
34	SR	153	GLN
34	SR	159	ASN
34	SR	188	ILE
34	SR	199	ILE
34	SR	200	ASN
34	SR	207	ASP
34	SR	211	ILE
34	SR	231	MET
34	SR	232	TYR
34	SR	238	ASP
34	SR	241	PHE
34	SR	258	THR
34	SR	266	ASP
34	SR	268	GLN
34	SR	269	TYR
34	SR	277	GLU

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Mol	Chain	Res	Type
34	SR	300	THR
34	SR	312	VAL
34	SR	314	GLN
34	SR	316	MET
34	SR	317	THR
34	SR	319	ASN
35	SM	27	LYS
35	SM	30	THR
35	SM	34	LYS
35	SM	37	VAL
35	SM	41	SER
35	SM	43	ASP
35	SM	45	SER
35	SM	46	LYS
35	SM	48	ARG
35	SM	49	LYS
35	SM	61	ILE
35	SM	64	LYS
35	SM	72	ARG
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	96	ARG
35	SM	97	THR
35	SM	100	THR
35	SM	101	ASP
35	SM	105	LYS
35	SM	106	VAL
35	SM	115	LYS
35	SM	131	ILE
35	SM	139	GLU
39	L2	9	ARG
39	L2	18	SER
39	L2	28	LYS
39	L2	32	LEU
39	L2	36	GLU
39	L2	41	ILE
39	L2	44	ILE
39	L2	45	VAL
39	L2	47	GLN
39	L2	48	ILE
39	L2	62	VAL

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Mol	Chain	Res	Type
39	L2	64	ARG
39	L2	71	LEU
39	L2	73	GLU
39	L2	74	GLU
39	L2	82	VAL
39	L2	88	ILE
39	L2	95	SER
39	L2	96	LEU
39	L2	97	ASN
39	L2	101	VAL
39	L2	104	LEU
39	L2	114	SER
39	L2	116	VAL
39	L2	134	VAL
39	L2	137	ILE
39	L2	139	HIS
39	L2	140	ASN
39	L2	143	GLU
39	L2	157	VAL
39	L2	163	ARG
39	L2	165	VAL
39	L2	169	ILE
39	L2	177	LYS
39	L2	179	LEU
39	L2	180	LEU
39	L2	181	LYS
39	L2	193	ARG
39	L2	202	VAL
39	L2	207	VAL
39	L2	219	ILE
39	L2	225	ILE
39	L2	227	ARG
39	L2	230	VAL
39	L2	251	LYS
39	L2	252	THR
40	L3	3	HIS
40	L3	7	GLU
40	L3	10	ARG
40	L3	17	LEU
40	L3	19	ARG
40	L3	21	ARG
40	L3	24	SER

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Mol	Chain	Res	Type
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	39	LYS
40	L3	47	LEU
40	L3	56	ILE
40	L3	69	LYS
40	L3	70	ARG
40	L3	73	VAL
40	L3	79	VAL
40	L3	81	THR
40	L3	84	VAL
40	L3	85	VAL
40	L3	86	VAL
40	L3	87	VAL
40	L3	93	VAL
40	L3	102	LEU
40	L3	103	THR
40	L3	114	VAL
40	L3	116	ARG
40	L3	126	LYS
40	L3	127	LYS
40	L3	128	LYS
40	L3	134	SER
40	L3	139	GLN
40	L3	146	ARG
40	L3	148	LEU
40	L3	153	LYS
40	L3	157	VAL
40	L3	160	VAL
40	L3	165	GLN
40	L3	166	ILE
40	L3	167	ARG
40	L3	169	THR
40	L3	187	SER
40	L3	188	ILE
40	L3	189	SER
40	L3	192	VAL
40	L3	196	ARG
40	L3	200	GLU
40	L3	201	LYS
40	L3	202	THR

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Mol	Chain	Res	Type
40	L3	205	VAL
40	L3	208	VAL
40	L3	210	GLU
40	L3	211	GLN
40	L3	212	ASN
40	L3	232	ARG
40	L3	235	THR
40	L3	236	LYS
40	L3	238	LEU
40	L3	241	LYS
40	L3	252	ILE
40	L3	264	VAL
40	L3	274	SER
40	L3	275	ARG
40	L3	284	ARG
40	L3	287	LYS
40	L3	305	ILE
40	L3	308	MET
40	L3	316	GLU
40	L3	317	ILE
40	L3	320	ASP
40	L3	324	VAL
40	L3	328	ILE
40	L3	332	ARG
40	L3	335	ILE
40	L3	337	THR
40	L3	338	LEU
40	L3	341	SER
40	L3	343	TYR
40	L3	347	SER
40	L3	353	GLU
40	L3	354	VAL
40	L3	355	SER
40	L3	364	LYS
40	L3	382	THR
40	L3	385	LYS
40	L3	387	LEU
41	L4	2	SER
41	L4	6	VAL
41	L4	16	THR
41	L4	20	LEU
41	L4	37	THR

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Mol	Chain	Res	Type
41	L4	40	THR
41	L4	64	SER
41	L4	69	ARG
41	L4	71	VAL
41	L4	74	ILE
41	L4	99	MET
41	L4	112	LYS
41	L4	117	GLU
41	L4	124	SER
41	L4	131	VAL
41	L4	133	SER
41	L4	136	LEU
41	L4	145	ILE
41	L4	147	GLU
41	L4	148	ILE
41	L4	150	LEU
41	L4	152	VAL
41	L4	156	LEU
41	L4	161	LYS
41	L4	179	LEU
41	L4	186	LYS
41	L4	187	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	194	TYR
41	L4	200	THR
41	L4	203	ARG
41	L4	206	LEU
41	L4	211	GLU
41	L4	220	ARG
41	L4	222	VAL
41	L4	223	PRO
41	L4	229	ASN
41	L4	230	VAL
41	L4	258	LEU
41	L4	259	ASP
41	L4	267	VAL
41	L4	270	SER
41	L4	284	SER
41	L4	287	THR
41	L4	289	ILE
41	L4	291	ASN

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Mol	Chain	Res	Type
41	L4	292	SER
41	L4	295	ILE
41	L4	306	THR
41	L4	307	GLN
41	L4	308	LYS
41	L4	312	VAL
41	L4	313	LEU
41	L4	323	VAL
41	L4	327	LEU
41	L4	333	VAL
41	L4	338	LYS
41	L4	343	LYS
41	L4	346	LYS
41	L4	349	THR
41	L4	350	LYS
41	L4	359	LEU
42	L5	4	GLN
42	L5	22	ARG
42	L5	23	ARG
42	L5	27	LYS
42	L5	34	LYS
42	L5	35	ARG
42	L5	41	LYS
42	L5	43	LYS
42	L5	65	ILE
42	L5	66	SER
42	L5	68	THR
42	L5	69	ILE
42	L5	70	THR
42	L5	75	LEU
42	L5	101	THR
42	L5	105	ILE
42	L5	109	THR
42	L5	112	LYS
42	L5	113	LEU
42	L5	115	LEU
42	L5	118	THR
42	L5	131	LEU
42	L5	132	THR
42	L5	137	ASP
42	L5	140	ARG
42	L5	144	VAL

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Mol	Chain	Res	Type
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	155	THR
42	L5	158	ARG
42	L5	159	VAL
42	L5	163	LEU
42	L5	164	LYS
42	L5	186	GLU
42	L5	188	GLU
42	L5	194	LEU
42	L5	196	ARG
42	L5	217	GLU
42	L5	218	ARG
42	L5	220	SER
42	L5	222	LEU
42	L5	227	LEU
42	L5	236	LEU
42	L5	242	SER
42	L5	257	GLU
42	L5	259	LYS
42	L5	262	LYS
42	L5	263	GLU
42	L5	273	ARG
42	L5	274	GLN
42	L5	275	THR
42	L5	279	LYS
42	L5	280	GLU
42	L5	290	ILE
43	L6	5	LYS
43	L6	15	VAL
43	L6	18	LEU
43	L6	21	THR
43	L6	23	LYS
43	L6	31	ARG
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	79	VAL
43	L6	84	VAL
43	L6	89	THR

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Mol	Chain	Res	Type
43	L6	90	LYS
43	L6	93	VAL
43	L6	94	GLU
43	L6	98	VAL
43	L6	134	ARG
43	L6	154	LEU
43	L6	155	LEU
43	L6	162	SER
43	L6	166	LYS
44	L7	24	GLU
44	L7	25	GLN
44	L7	26	VAL
44	L7	38	LYS
44	L7	40	LYS
44	L7	59	GLU
44	L7	77	VAL
44	L7	82	LYS
44	L7	83	LEU
44	L7	88	ARG
44	L7	89	ILE
44	L7	92	ILE
44	L7	93	ASN
44	L7	110	ARG
44	L7	118	LYS
44	L7	120	THR
44	L7	124	LEU
44	L7	128	LYS
44	L7	134	VAL
44	L7	158	LYS
44	L7	161	VAL
44	L7	164	SER
44	L7	173	LEU
44	L7	175	LYS
44	L7	178	ILE
44	L7	179	LEU
44	L7	181	ILE
44	L7	182	ASP
44	L7	184	LEU
44	L7	185	ILE
44	L7	206	LYS
44	L7	207	LEU
44	L7	224	ILE

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Mol	Chain	Res	Type
44	L7	228	SER
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	41	GLN
45	L8	50	VAL
45	L8	62	LYS
45	L8	63	LYS
45	L8	65	LEU
45	L8	71	VAL
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	82	LEU
45	L8	84	ARG
45	L8	95	ASN
45	L8	101	THR
45	L8	112	GLU
45	L8	118	GLU
45	L8	132	VAL
45	L8	136	LEU
45	L8	149	LYS
45	L8	150	LEU
45	L8	156	ASP
45	L8	163	VAL
45	L8	169	LEU
45	L8	172	LYS
45	L8	181	LYS
45	L8	185	ARG
45	L8	189	LEU
45	L8	197	VAL
45	L8	202	GLU
45	L8	203	VAL
45	L8	204	ARG
45	L8	206	GLU
45	L8	211	LEU
45	L8	218	ILE
45	L8	219	ASP
45	L8	221	ASN
45	L8	238	LEU
45	L8	241	LYS
45	L8	246	MET

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Mol	Chain	Res	Type
45	L8	248	LYS
46	L9	5	GLN
46	L9	6	THR
46	L9	14	GLU
46	L9	18	VAL
46	L9	20	ILE
46	L9	21	LYS
46	L9	22	SER
46	L9	24	ILE
46	L9	28	VAL
46	L9	34	LEU
46	L9	36	LYS
46	L9	41	ILE
46	L9	48	VAL
46	L9	52	LEU
46	L9	65	VAL
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	72	LYS
46	L9	78	MET
46	L9	82	VAL
46	L9	110	LYS
46	L9	115	ARG
46	L9	121	LYS
46	L9	123	ILE
46	L9	124	ARG
46	L9	132	VAL
46	L9	134	ILE
46	L9	135	GLU
46	L9	138	THR
46	L9	147	SER
46	L9	151	VAL
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	172	ILE
46	L9	173	ARG
46	L9	177	ASP
46	L9	189	GLU

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Mol	Chain	Res	Type
47	M0	3	ARG
47	M0	21	ARG
47	M0	24	ARG
47	M0	26	VAL
47	M0	30	LYS
47	M0	31	ILE
47	M0	32	ARG
47	M0	33	ILE
47	M0	39	LYS
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	63	GLU
47	M0	87	LEU
47	M0	91	VAL
47	M0	102	MET
47	M0	128	ARG
47	M0	130	ASP
47	M0	133	GLN
47	M0	138	VAL
47	M0	146	ASP
47	M0	165	ILE
47	M0	166	ILE
47	M0	174	THR
47	M0	175	ASN
47	M0	176	LEU
47	M0	177	ASP
47	M0	178	ARG
47	M0	180	GLU
47	M0	184	LYS
47	M0	190	VAL
47	M0	203	LYS
47	M0	205	SER
47	M0	206	LEU
47	M0	207	GLU
48	M1	6	GLN
48	M1	9	MET
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS

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Mol	Chain	Res	Type
48	M1	25	GLU
48	M1	26	SER
48	M1	28	ASP
48	M1	31	THR
48	M1	34	SER
48	M1	38	GLU
48	M1	39	GLN
48	M1	40	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	56	THR
48	M1	63	GLU
48	M1	65	ILE
48	M1	71	VAL
48	M1	77	GLU
48	M1	80	LEU
48	M1	94	ARG
48	M1	95	ASN
48	M1	106	ILE
48	M1	107	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	130	VAL
48	M1	138	VAL
48	M1	140	ARG
48	M1	142	LYS
48	M1	145	LYS
48	M1	155	THR
48	M1	158	ASP
48	M1	161	SER
48	M1	165	GLN
48	M1	166	LYS
48	M1	171	VAL
49	M3	23	LYS
49	M3	33	VAL
49	M3	35	ARG
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	62	THR

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Mol	Chain	Res	Type
49	M3	63	VAL
49	M3	67	ARG
49	M3	69	VAL
49	M3	79	GLU
49	M3	80	VAL
49	M3	85	LEU
49	M3	107	GLU
49	M3	114	GLN
49	M3	122	LYS
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	138	VAL
49	M3	144	THR
49	M3	147	ILE
49	M3	164	GLU
49	M3	168	ARG
49	M3	169	THR
49	M3	171	ARG
49	M3	190	LYS
50	M4	5	SER
50	M4	8	LYS
50	M4	15	VAL
50	M4	19	ARG
50	M4	20	VAL
50	M4	23	ILE
50	M4	27	GLN
50	M4	38	ILE
50	M4	50	LYS
50	M4	53	VAL
50	M4	58	ILE
50	M4	64	VAL
50	M4	66	THR
50	M4	72	LEU
50	M4	90	VAL
50	M4	91	CYS
50	M4	105	GLN
50	M4	108	ARG
50	M4	121	MET
50	M4	132	LYS
50	M4	135	LEU
51	M5	10	LEU

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Mol	Chain	Res	Type
51	M5	13	LYS
51	M5	18	VAL
51	M5	22	LEU
51	M5	38	ARG
51	M5	66	VAL
51	M5	68	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	83	LYS
51	M5	85	THR
51	M5	96	ARG
51	M5	105	ARG
51	M5	106	VAL
51	M5	117	ASN
51	M5	124	ASP
51	M5	133	ILE
51	M5	138	GLN
51	M5	142	ILE
51	M5	144	ARG
51	M5	151	ILE
51	M5	153	ASP
51	M5	159	ARG
51	M5	167	THR
51	M5	175	ASN
51	M5	182	ASN
51	M5	184	LYS
51	M5	187	ARG
51	M5	190	THR
51	M5	196	THR
51	M5	204	LYS
52	M6	3	VAL
52	M6	6	VAL
52	M6	22	VAL
52	M6	25	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	36	VAL
52	M6	50	ASN
52	M6	58	LEU
52	M6	68	ARG
52	M6	74	ARG
52	M6	78	ARG

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Mol	Chain	Res	Type
52	M6	79	ILE
52	M6	84	LEU
52	M6	85	ARG
52	M6	89	SER
52	M6	106	GLU
52	M6	110	PRO
52	M6	115	LYS
52	M6	116	LYS
52	M6	117	ARG
52	M6	122	GLN
52	M6	124	LEU
52	M6	128	ARG
52	M6	134	LYS
52	M6	143	THR
52	M6	166	GLU
52	M6	184	THR
52	M6	190	VAL
52	M6	192	LYS
53	M7	3	ARG
53	M7	7	THR
53	M7	9	THR
53	M7	16	SER
53	M7	18	ARG
53	M7	23	ARG
53	M7	24	VAL
53	M7	32	THR
53	M7	36	ILE
53	M7	40	GLU
53	M7	41	LEU
53	M7	52	LEU
53	M7	67	ILE
53	M7	69	ARG
53	M7	78	VAL
53	M7	79	THR
53	M7	87	SER
53	M7	107	LEU
53	M7	114	VAL
53	M7	118	GLN
53	M7	119	VAL
53	M7	120	ASN
53	M7	124	LYS
53	M7	126	ARG

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Mol	Chain	Res	Type
53	M7	127	ARG
53	M7	128	ARG
53	M7	136	ILE
53	M7	138	LYS
53	M7	142	SER
53	M7	144	SER
53	M7	146	ILE
53	M7	148	LEU
53	M7	157	VAL
53	M7	171	ARG
53	M7	180	LYS
53	M7	181	ARG
53	M7	182	ILE
54	M8	3	ILE
54	M8	22	ASP
54	M8	24	VAL
54	M8	26	LEU
54	M8	27	LYS
54	M8	32	LEU
54	M8	39	ARG
54	M8	41	ASP
54	M8	49	LEU
54	M8	50	LYS
54	M8	63	SER
54	M8	67	ILE
54	M8	69	ARG
54	M8	73	GLN
54	M8	74	GLU
54	M8	80	THR
54	M8	81	VAL
54	M8	93	ILE
54	M8	99	THR
54	M8	104	LEU
54	M8	111	ARG
54	M8	113	LYS
54	M8	127	LEU
54	M8	129	VAL
54	M8	135	GLN
54	M8	138	LEU
54	M8	141	ARG
54	M8	179	ARG
55	M9	10	LEU

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Mol	Chain	Res	Type
55	M9	29	THR
55	M9	31	GLU
55	M9	34	GLN
55	M9	37	SER
55	M9	41	ILE
55	M9	44	LEU
55	M9	51	VAL
55	M9	55	VAL
55	M9	60	LYS
55	M9	61	SER
55	M9	63	THR
55	M9	74	ARG
55	M9	81	ARG
55	M9	86	GLU
55	M9	89	LEU
55	M9	91	SER
55	M9	99	LEU
55	M9	100	ARG
55	M9	101	VAL
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	115	ILE
55	M9	116	ASP
55	M9	126	GLU
55	M9	134	HIS
55	M9	138	LEU
55	M9	139	VAL
55	M9	150	GLN
55	M9	153	LYS
55	M9	156	ASN
55	M9	164	LEU
55	M9	165	LYS
55	M9	171	ASP
55	M9	175	GLN
55	M9	177	VAL
55	M9	181	ARG
56	N0	1	MET
56	N0	8	GLN
56	N0	13	ARG
56	N0	45	LEU
56	N0	46	GLN

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Mol	Chain	Res	Type
56	N0	51	VAL
56	N0	52	LYS
56	N0	57	GLU
56	N0	58	ILE
56	N0	61	ILE
56	N0	79	VAL
56	N0	85	SER
56	N0	87	THR
56	N0	92	LYS
56	N0	99	ARG
56	N0	100	VAL
56	N0	103	VAL
56	N0	104	GLU
56	N0	106	LEU
56	N0	113	ARG
56	N0	115	ARG
56	N0	125	LYS
56	N0	132	THR
56	N0	137	ARG
56	N0	141	LYS
56	N0	142	GLN
56	N0	144	LEU
56	N0	155	ARG
56	N0	156	VAL
56	N0	157	GLN
56	N0	160	THR
56	N0	162	THR
56	N0	171	PHE
57	N1	12	ARG
57	N1	25	VAL
57	N1	26	HIS
57	N1	27	LEU
57	N1	32	LYS
57	N1	36	VAL
57	N1	43	LYS
57	N1	50	LYS
57	N1	55	LYS
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG

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Mol	Chain	Res	Type
57	N1	87	LYS
57	N1	88	ARG
57	N1	89	LEU
57	N1	96	ILE
57	N1	106	LEU
57	N1	110	LYS
57	N1	118	GLU
57	N1	122	GLN
57	N1	124	VAL
57	N1	127	GLN
57	N1	128	LEU
57	N1	131	GLN
57	N1	139	ARG
57	N1	141	VAL
57	N1	143	THR
57	N1	149	GLN
57	N1	154	VAL
57	N1	158	THR
57	N1	160	ILE
58	N2	10	LYS
58	N2	14	THR
58	N2	16	THR
58	N2	39	ASP
58	N2	43	VAL
58	N2	50	LEU
58	N2	52	ASN
58	N2	54	VAL
58	N2	61	THR
58	N2	66	VAL
58	N2	74	LYS
58	N2	88	GLN
58	N2	93	ILE
58	N2	99	LYS
58	N2	100	THR
59	N3	9	THR
59	N3	12	ARG
59	N3	13	ILE
59	N3	14	SER
59	N3	32	ARG
59	N3	42	SER
59	N3	44	SER
59	N3	46	LEU

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Mol	Chain	Res	Type
59	N3	48	ARG
59	N3	54	LEU
59	N3	69	LEU
59	N3	73	VAL
59	N3	74	MET
59	N3	78	VAL
59	N3	83	LYS
59	N3	88	ARG
59	N3	91	VAL
59	N3	102	ILE
59	N3	110	LYS
59	N3	120	LYS
59	N3	125	LEU
59	N3	131	SER
59	N3	135	VAL
59	N3	137	VAL
60	N4	2	LYS
60	N4	5	ILE
60	N4	19	THR
60	N4	34	SER
60	N4	39	LEU
60	N4	43	ARG
60	N4	47	ARG
60	N4	64	THR
61	N5	26	VAL
61	N5	27	ARG
61	N5	28	THR
61	N5	34	LEU
61	N5	36	LYS
61	N5	38	LEU
61	N5	40	LEU
61	N5	42	ARG
61	N5	48	SER
61	N5	49	LYS
61	N5	63	ILE
61	N5	71	THR
61	N5	75	LYS
61	N5	86	VAL
61	N5	88	MET
61	N5	92	LYS
61	N5	100	LYS
61	N5	102	LEU

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Mol	Chain	Res	Type
61	N5	108	LEU
61	N5	113	LEU
61	N5	115	ARG
61	N5	125	ARG
61	N5	127	THR
61	N5	133	LEU
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	4	GLN
62	N6	8	VAL
62	N6	9	SER
62	N6	13	ARG
62	N6	17	LYS
62	N6	26	GLN
62	N6	31	LEU
62	N6	36	SER
62	N6	37	LYS
62	N6	38	GLU
62	N6	39	LEU
62	N6	42	GLN
62	N6	45	ILE
62	N6	50	ILE
62	N6	56	VAL
62	N6	57	LEU
62	N6	60	ARG
62	N6	62	SER
62	N6	76	LEU
62	N6	80	VAL
62	N6	83	ASP
62	N6	88	GLU
62	N6	95	VAL
62	N6	105	VAL
62	N6	115	ARG
62	N6	122	LYS
62	N6	126	LEU
62	N6	127	GLU
63	N7	5	LEU
63	N7	14	VAL
63	N7	21	LYS
63	N7	24	VAL

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Mol	Chain	Res	Type
63	N7	34	LYS
63	N7	46	ILE
63	N7	52	LYS
63	N7	64	LYS
63	N7	72	ILE
63	N7	74	VAL
63	N7	75	VAL
63	N7	81	LEU
63	N7	83	THR
63	N7	86	THR
63	N7	87	LEU
63	N7	89	VAL
63	N7	95	VAL
63	N7	96	VAL
63	N7	99	GLU
63	N7	100	THR
63	N7	102	GLU
63	N7	106	GLN
63	N7	109	GLU
63	N7	121	ARG
63	N7	134	LEU
63	N7	135	ARG
63	N7	136	PHE
64	N8	4	ARG
64	N8	7	LYS
64	N8	8	THR
64	N8	10	LYS
64	N8	12	ARG
64	N8	29	PRO
64	N8	32	ARG
64	N8	34	MET
64	N8	42	ARG
64	N8	43	ILE
64	N8	47	LYS
64	N8	56	VAL
64	N8	64	GLN
64	N8	65	GLN
64	N8	78	LEU
64	N8	88	ASP
64	N8	91	LEU
64	N8	92	LYS
64	N8	101	VAL

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Mol	Chain	Res	Type
64	N8	115	LYS
64	N8	120	ASN
64	N8	130	VAL
64	N8	133	LEU
64	N8	137	LYS
65	N9	3	LYS
65	N9	6	ASN
65	N9	13	THR
65	N9	18	ARG
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	33	LYS
65	N9	35	VAL
65	N9	38	LYS
65	N9	50	THR
65	N9	59	LYS
66	O0	12	GLN
66	O0	14	LEU
66	O0	16	LEU
66	O0	20	SER
66	O0	22	LYS
66	O0	24	THR
66	O0	36	GLN
66	O0	41	LEU
66	O0	54	SER
66	O0	61	MET
66	O0	65	THR
66	O0	71	GLN
66	O0	76	GLU
66	O0	79	THR
66	O0	81	VAL
66	O0	83	LYS
66	O0	87	VAL
66	O0	100	ILE
66	O0	101	LEU
67	O1	6	ASP
67	O1	8	VAL
67	O1	13	THR
67	O1	16	LEU
67	O1	26	LYS

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Mol	Chain	Res	Type
67	O1	28	ARG
67	O1	41	LYS
67	O1	42	LEU
67	O1	46	THR
67	O1	53	PRO
67	O1	55	LEU
67	O1	64	VAL
67	O1	68	GLU
67	O1	73	LEU
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG
67	O1	82	GLU
67	O1	83	GLU
67	O1	84	ASP
67	O1	86	LYS
67	O1	87	ASN
67	O1	94	GLU
67	O1	96	VAL
67	O1	102	LYS
67	O1	104	LEU
67	O1	105	GLN
67	O1	106	THR
67	O1	110	GLU
68	O2	4	LEU
68	O2	10	VAL
68	O2	14	THR
68	O2	15	LYS
68	O2	19	ARG
68	O2	27	ARG
68	O2	33	ARG
68	O2	44	ARG
68	O2	51	SER
68	O2	54	LYS
68	O2	61	LYS
68	O2	66	LEU
68	O2	73	THR
68	O2	76	VAL
68	O2	82	LEU
68	O2	84	THR
68	O2	87	MET
68	O2	91	THR

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Mol	Chain	Res	Type
68	O2	101	SER
68	O2	103	LYS
68	O2	106	VAL
68	O2	109	LEU
68	O2	119	VAL
68	O2	120	THR
68	O2	125	ARG
68	O2	126	LEU
68	O2	128	LEU
69	O3	15	SER
69	O3	20	LYS
69	O3	24	ASN
69	O3	49	ILE
69	O3	63	LYS
69	O3	70	LYS
69	O3	72	THR
69	O3	74	THR
69	O3	80	VAL
69	O3	81	VAL
69	O3	86	ARG
69	O3	90	PRO
69	O3	98	VAL
69	O3	105	SER
69	O3	106	ASN
70	O4	8	ARG
70	O4	20	ILE
70	O4	21	LYS
70	O4	23	VAL
70	O4	24	LYS
70	O4	33	GLN
70	O4	49	SER
70	O4	51	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	71	THR
70	O4	79	SER
70	O4	85	VAL
70	O4	86	LYS
70	O4	88	ARG
70	O4	102	LYS
70	O4	104	VAL
70	O4	105	VAL

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Mol	Chain	Res	Type
71	O5	4	VAL
71	O5	5	LYS
71	O5	15	GLU
71	O5	20	GLN
71	O5	21	LEU
71	O5	27	GLU
71	O5	41	LEU
71	O5	44	ILE
71	O5	46	THR
71	O5	49	LYS
71	O5	50	SER
71	O5	62	GLN
71	O5	69	LEU
71	O5	71	LYS
71	O5	74	LYS
71	O5	89	ARG
71	O5	90	ARG
71	O5	100	VAL
71	O5	101	THR
71	O5	102	GLU
71	O5	103	LYS
71	O5	104	GLN
71	O5	105	ARG
71	O5	107	LYS
71	O5	109	ILE
71	O5	115	LYS
71	O5	119	LYS
72	O6	11	LEU
72	O6	17	VAL
72	O6	18	THR
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	34	SER
72	O6	36	ARG
72	O6	45	ARG
72	O6	47	ILE
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	62	ARG
72	O6	68	ARG

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Mol	Chain	Res	Type
72	O6	70	ARG
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	88	GLU
72	O6	98	ARG
72	O6	99	ARG
73	O7	5	THR
73	O7	15	SER
73	O7	17	THR
73	O7	24	ARG
73	O7	25	ARG
73	O7	26	SER
73	O7	44	THR
73	O7	45	ARG
73	O7	55	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	65	ARG
73	O7	79	GLN
73	O7	82	SER
73	O7	85	LYS
74	O8	5	ILE
74	O8	6	THR
74	O8	8	ILE
74	O8	22	THR
74	O8	24	THR
74	O8	31	LEU
74	O8	32	ASN
74	O8	41	THR
74	O8	45	VAL
74	O8	46	ARG
74	O8	53	THR
74	O8	55	VAL
74	O8	65	LEU
74	O8	67	GLN
74	O8	72	THR
75	O9	5	LYS
75	O9	9	ILE
75	O9	12	LYS
75	O9	13	MET
75	O9	17	LYS

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Mol	Chain	Res	Type
75	O9	21	ARG
75	O9	23	LEU
75	O9	27	ILE
75	O9	29	LEU
75	O9	33	ASN
75	O9	40	LYS
75	O9	42	ARG
75	O9	45	ARG
75	O9	47	THR
75	O9	51	ILE
76	Q0	78	ILE
76	Q0	80	PRO
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	98	LYS
76	Q0	99	CYS
76	Q0	108	THR
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	1	MET
77	Q1	2	ARG
77	Q1	4	LYS
77	Q1	6	ARG
77	Q1	9	ARG
77	Q1	10	THR
77	Q1	13	LEU
77	Q1	16	LYS
77	Q1	19	LYS
77	Q1	20	VAL
77	Q1	21	ARG
78	Q2	2	VAL
78	Q2	4	VAL
78	Q2	9	LYS
78	Q2	21	THR
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	45	ARG
78	Q2	47	GLN
78	Q2	48	SER
78	Q2	55	LYS

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Mol	Chain	Res	Type
78	Q2	71	ARG
78	Q2	78	LYS
78	Q2	79	THR
78	Q2	80	ARG
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	92	GLU
78	Q2	93	LEU
78	Q2	99	GLN
78	Q2	104	LEU
79	Q3	5	THR
79	Q3	10	ILE
79	Q3	11	THR
79	Q3	25	GLN
79	Q3	27	LYS
79	Q3	31	ILE
79	Q3	32	GLN
79	Q3	40	SER
79	Q3	45	LYS
79	Q3	48	LYS
79	Q3	49	ARG
79	Q3	54	ILE
79	Q3	60	CYS
79	Q3	70	THR
79	Q3	78	THR
79	Q3	90	VAL
79	Q3	91	GLU
2	s0	9	LEU
2	s0	10	THR
2	s0	12	GLU
2	s0	22	THR
2	s0	27	ARG
2	s0	29	VAL
2	s0	30	GLN
2	s0	41	ARG
2	s0	43	ASP
2	s0	57	LEU
2	s0	59	LEU
2	s0	62	ARG
2	s0	72	ASP
2	s0	87	LEU

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Mol	Chain	Res	Type
2	s0	93	THR
2	s0	96	THR
2	s0	106	SER
2	s0	110	TYR
2	s0	111	ILE
2	s0	123	VAL
2	s0	124	THR
2	s0	131	GLN
2	s0	133	ILE
2	s0	137	SER
2	s0	144	ILE
2	s0	153	SER
2	s0	154	GLU
2	s0	156	VAL
2	s0	157	ASP
2	s0	165	ARG
2	s0	167	LYS
2	s0	172	LEU
2	s0	179	ARG
2	s0	183	ARG
2	s0	189	VAL
2	s0	197	ILE
2	s0	198	MET
3	s1	21	VAL
3	s1	25	THR
3	s1	37	THR
3	s1	40	ASN
3	s1	47	LEU
3	s1	51	SER
3	s1	54	LEU
3	s1	55	LYS
3	s1	62	LYS
3	s1	66	VAL
3	s1	70	LEU
3	s1	73	LEU
3	s1	83	LYS
3	s1	84	ILE
3	s1	90	GLU
3	s1	91	VAL
3	s1	105	PHE
3	s1	119	THR
3	s1	121	ILE

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Mol	Chain	Res	Type
3	s1	125	VAL
3	s1	131	ASP
3	s1	137	ILE
3	s1	146	GLN
3	s1	154	SER
3	s1	158	SER
3	s1	159	SER
3	s1	164	ILE
3	s1	169	SER
3	s1	170	GLU
3	s1	173	THR
3	s1	175	GLU
3	s1	177	GLN
3	s1	180	THR
3	s1	181	LEU
3	s1	188	LEU
3	s1	189	ILE
3	s1	192	VAL
3	s1	193	ILE
3	s1	195	LYS
3	s1	202	LYS
3	s1	206	PRO
3	s1	211	HIS
3	s1	215	VAL
3	s1	219	LYS
3	s1	225	VAL
3	s1	228	LEU
3	s1	231	LEU
4	s2	39	THR
4	s2	41	LEU
4	s2	46	LYS
4	s2	51	THR
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	56	ILE
4	s2	58	LEU
4	s2	60	SER
4	s2	61	LEU
4	s2	69	ILE
4	s2	72	LEU
4	s2	73	LEU

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Mol	Chain	Res	Type
4	s2	80	VAL
4	s2	83	ILE
4	s2	87	GLN
4	s2	89	GLN
4	s2	90	THR
4	s2	95	ARG
4	s2	101	VAL
4	s2	106	ASP
4	s2	108	ASN
4	s2	111	VAL
4	s2	113	LEU
4	s2	117	THR
4	s2	120	GLU
4	s2	130	ILE
4	s2	134	LEU
4	s2	137	ILE
4	s2	139	ILE
4	s2	140	ARG
4	s2	141	ARG
4	s2	146	THR
4	s2	148	LEU
4	s2	150	GLN
4	s2	153	SER
4	s2	159	THR
4	s2	164	SER
4	s2	166	THR
4	s2	170	ILE
4	s2	179	VAL
4	s2	181	SER
4	s2	182	PRO
4	s2	185	LYS
4	s2	186	LYS
4	s2	190	LEU
4	s2	194	GLU
4	s2	195	ASP
4	s2	204	THR
4	s2	206	THR
4	s2	207	LEU
4	s2	212	LYS
4	s2	218	ILE
4	s2	225	LEU
4	s2	229	LEU

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Mol	Chain	Res	Type
4	s2	233	GLN
4	s2	237	VAL
4	s2	242	ILE
4	s2	246	GLU
4	s2	248	SER
5	s3	4	LEU
5	s3	9	ARG
5	s3	10	LYS
5	s3	11	LEU
5	s3	26	THR
5	s3	32	GLU
5	s3	37	VAL
5	s3	39	VAL
5	s3	40	ARG
5	s3	44	THR
5	s3	56	GLN
5	s3	59	LEU
5	s3	61	GLU
5	s3	64	ARG
5	s3	69	LEU
5	s3	76	ARG
5	s3	83	THR
5	s3	94	ARG
5	s3	99	VAL
5	s3	103	GLU
5	s3	115	ILE
5	s3	124	ARG
5	s3	128	GLU
5	s3	139	SER
5	s3	142	LEU
5	s3	146	ARG
5	s3	158	ILE
5	s3	164	VAL
5	s3	172	THR
5	s3	178	ARG
5	s3	181	VAL
5	s3	195	SER
5	s3	196	ARG
5	s3	202	LEU
5	s3	209	ILE
5	s3	210	GLU
5	s3	212	LYS

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Mol	Chain	Res	Type
5	s3	217	ILE
5	s3	222	VAL
5	s3	223	LYS
6	s4	6	LYS
6	s4	7	LYS
6	s4	9	LEU
6	s4	12	LEU
6	s4	20	LEU
6	s4	23	LEU
6	s4	24	SER
6	s4	38	LEU
6	s4	42	LEU
6	s4	49	ARG
6	s4	51	ARG
6	s4	56	LEU
6	s4	67	GLN
6	s4	69	HIS
6	s4	70	VAL
6	s4	72	VAL
6	s4	78	THR
6	s4	81	THR
6	s4	89	VAL
6	s4	104	ASP
6	s4	106	LYS
6	s4	115	THR
6	s4	116	ASP
6	s4	117	GLU
6	s4	123	LEU
6	s4	125	LYS
6	s4	126	VAL
6	s4	128	LYS
6	s4	146	THR
6	s4	148	ARG
6	s4	159	THR
6	s4	160	VAL
6	s4	176	ASP
6	s4	180	LEU
6	s4	182	TYR
6	s4	184	THR
6	s4	191	ARG
6	s4	200	ARG
6	s4	214	LEU

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Mol	Chain	Res	Type
6	s4	219	VAL
6	s4	221	ARG
6	s4	222	LEU
6	s4	223	ASN
6	s4	227	VAL
6	s4	236	ILE
6	s4	237	SER
6	s4	242	LYS
6	s4	244	ILE
6	s4	246	LEU
6	s4	248	ILE
6	s4	254	ARG
7	s5	23	VAL
7	s5	24	VAL
7	s5	25	LEU
7	s5	27	THR
7	s5	29	ILE
7	s5	31	GLU
7	s5	33	VAL
7	s5	38	THR
7	s5	45	LYS
7	s5	50	GLU
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	79	ASN
7	s5	86	GLN
7	s5	89	ILE
7	s5	93	LEU
7	s5	102	ARG
7	s5	112	ARG
7	s5	114	ILE
7	s5	119	ASP
7	s5	124	LEU
7	s5	128	ASN
7	s5	134	VAL
7	s5	146	THR
7	s5	148	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	167	ARG

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Mol	Chain	Res	Type
7	s5	187	ILE
7	s5	190	ILE
7	s5	192	GLU
7	s5	194	LEU
7	s5	205	SER
7	s5	212	LYS
7	s5	213	LYS
7	s5	216	GLU
8	s6	5	ILE
8	s6	9	VAL
8	s6	21	GLU
8	s6	22	HIS
8	s6	25	ARG
8	s6	30	LYS
8	s6	31	ARG
8	s6	34	GLN
8	s6	63	MET
8	s6	69	LEU
8	s6	71	THR
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	81	VAL
8	s6	89	ASP
8	s6	93	LYS
8	s6	96	SER
8	s6	97	VAL
8	s6	98	ARG
8	s6	108	VAL
8	s6	109	LEU
8	s6	120	GLU
8	s6	121	LEU
8	s6	125	THR
8	s6	127	THR
8	s6	129	VAL
8	s6	132	ARG
8	s6	143	LYS
8	s6	151	ASP
8	s6	153	VAL
8	s6	154	ARG
8	s6	155	ASP
8	s6	166	GLU

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Mol	Chain	Res	Type
8	s6	168	THR
8	s6	171	LYS
8	s6	177	ARG
8	s6	178	LEU
8	s6	182	GLN
8	s6	193	LEU
8	s6	197	ASN
8	s6	212	LEU
8	s6	214	LYS
8	s6	215	ARG
9	s7	8	ILE
9	s7	9	LEU
9	s7	17	GLU
9	s7	26	GLU
9	s7	28	GLU
9	s7	42	GLN
9	s7	49	ILE
9	s7	51	VAL
9	s7	62	VAL
9	s7	75	THR
9	s7	77	LEU
9	s7	78	THR
9	s7	79	ARG
9	s7	80	GLU
9	s7	86	GLN
9	s7	97	ARG
9	s7	110	GLN
9	s7	114	ARG
9	s7	115	SER
9	s7	117	THR
9	s7	119	THR
9	s7	122	HIS
9	s7	129	LEU
9	s7	143	LEU
9	s7	144	VAL
9	s7	149	ILE
9	s7	162	ILE
9	s7	185	ILE
10	s8	7	SER
10	s8	9	HIS
10	s8	18	ARG
10	s8	22	ARG

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Mol	Chain	Res	Type
10	s8	25	ARG
10	s8	29	LEU
10	s8	32	GLN
10	s8	36	THR
10	s8	46	VAL
10	s8	48	THR
10	s8	54	LYS
10	s8	59	ARG
10	s8	61	GLU
10	s8	62	THR
10	s8	64	ASN
10	s8	72	ILE
10	s8	74	LYS
10	s8	76	THR
10	s8	77	ARG
10	s8	89	GLU
10	s8	101	ILE
10	s8	119	GLN
10	s8	120	THR
10	s8	121	LEU
10	s8	138	ASN
10	s8	140	GLU
10	s8	141	ARG
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	158	SER
10	s8	176	SER
10	s8	183	ILE
10	s8	199	LYS
11	s9	3	ARG
11	s9	7	THR
11	s9	10	LYS
11	s9	16	LYS
11	s9	20	GLU
11	s9	28	LEU
11	s9	37	LYS
11	s9	45	ILE
11	s9	49	LEU
11	s9	53	ARG
11	s9	60	LEU
11	s9	77	ILE

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Mol	Chain	Res	Type
11	s9	78	ARG
11	s9	81	VAL
11	s9	82	ARG
11	s9	89	ASP
11	s9	90	LYS
11	s9	92	LYS
11	s9	93	LEU
11	s9	96	VAL
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	111	THR
11	s9	113	VAL
11	s9	120	LYS
11	s9	126	ARG
11	s9	127	VAL
11	s9	130	THR
11	s9	132	ARG
11	s9	134	ILE
11	s9	140	ILE
11	s9	142	ASN
11	s9	143	ILE
11	s9	149	ARG
11	s9	150	LEU
11	s9	152	SER
11	s9	161	THR
11	s9	168	ARG
11	s9	172	VAL
11	s9	174	ARG
11	s9	179	ARG
11	s9	180	LYS
12	c0	2	LEU
12	c0	5	LYS
12	c0	15	LEU
12	c0	20	VAL
12	c0	22	VAL
12	c0	40	LEU
12	c0	55	VAL
12	c0	57	THR
12	c0	73	VAL
12	c0	76	LEU
13	c1	5	LEU

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Mol	Chain	Res	Type
13	c1	6	THR
13	c1	10	GLU
13	c1	21	ASN
13	c1	24	LYS
13	c1	27	THR
13	c1	30	ARG
13	c1	32	LYS
13	c1	40	LEU
13	c1	44	THR
13	c1	56	LYS
13	c1	60	PHE
13	c1	69	LYS
13	c1	74	THR
13	c1	80	MET
13	c1	82	ARG
13	c1	96	LYS
13	c1	99	ARG
13	c1	107	VAL
13	c1	119	VAL
13	c1	123	VAL
13	c1	125	VAL
13	c1	129	ARG
13	c1	140	VAL
13	c1	143	SER
14	c2	26	ASP
14	c2	28	LEU
14	c2	30	VAL
14	c2	36	LEU
14	c2	37	VAL
14	c2	38	HIS
14	c2	39	ASP
14	c2	45	LEU
14	c2	50	LYS
14	c2	52	LEU
14	c2	58	LEU
14	c2	61	VAL
14	c2	67	THR
14	c2	71	ILE
14	c2	74	LEU
14	c2	85	LYS
14	c2	89	ILE
14	c2	97	LEU

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Mol	Chain	Res	Type
14	c2	103	LEU
14	c2	120	VAL
14	c2	121	VAL
14	c2	132	GLU
14	c2	136	ILE
14	c2	137	MET
14	c2	140	PHE
15	c3	3	ARG
15	c3	6	SER
15	c3	12	SER
15	c3	14	SER
15	c3	21	ASN
15	c3	27	LYS
15	c3	29	SER
15	c3	31	GLU
15	c3	35	GLU
15	c3	37	ILE
15	c3	38	VAL
15	c3	46	THR
15	c3	60	VAL
15	c3	65	VAL
15	c3	66	ILE
15	c3	70	LYS
15	c3	76	LYS
15	c3	80	LEU
15	c3	84	ILE
15	c3	87	ASP
15	c3	97	SER
15	c3	102	LEU
15	c3	104	ARG
15	c3	115	LEU
15	c3	116	ILE
15	c3	122	ILE
15	c3	125	LEU
15	c3	127	ARG
15	c3	131	THR
15	c3	134	VAL
15	c3	138	ASN
15	c3	139	TRP
15	c3	150	VAL
15	c3	151	ASN
16	c4	13	VAL

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Mol	Chain	Res	Type
16	c4	16	VAL
16	c4	18	ARG
16	c4	26	THR
16	c4	31	THR
16	c4	33	LEU
16	c4	43	THR
16	c4	49	LYS
16	c4	51	ASP
16	c4	52	ARG
16	c4	62	LEU
16	c4	70	LYS
16	c4	81	VAL
16	c4	92	LYS
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	115	ILE
16	c4	119	THR
16	c4	123	SER
16	c4	133	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	13	LYS
17	c5	20	VAL
17	c5	22	LEU
17	c5	24	LYS
17	c5	27	GLU
17	c5	36	LEU
17	c5	40	ARG
17	c5	49	MET
17	c5	51	SER
17	c5	68	PRO
17	c5	69	GLU
17	c5	71	GLU
17	c5	92	SER
17	c5	107	ILE
17	c5	110	GLU
17	c5	111	MET
17	c5	121	ILE
17	c5	124	THR
17	c5	126	VAL
17	c5	127	ARG

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Mol	Chain	Res	Type
17	c5	134	THR
18	c6	23	LYS
18	c6	26	LYS
18	c6	28	LEU
18	c6	37	THR
18	c6	43	ILE
18	c6	48	VAL
18	c6	53	LEU
18	c6	57	LEU
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL
18	c6	78	VAL
18	c6	83	GLN
18	c6	94	GLN
18	c6	105	LEU
18	c6	110	THR
18	c6	118	ILE
18	c6	137	ARG
18	c6	140	LYS
18	c6	143	ARG
19	c7	3	ARG
19	c7	8	THR
19	c7	14	LYS
19	c7	17	ILE
19	c7	26	LEU
19	c7	34	LEU
19	c7	38	ILE
19	c7	46	LEU
19	c7	47	ARG
19	c7	61	ILE
19	c7	63	LYS
19	c7	69	ILE
19	c7	72	LYS
19	c7	83	GLN
19	c7	85	VAL
19	c7	87	GLU
19	c7	105	GLN
19	c7	112	SER
19	c7	113	LEU
20	c8	2	SER
20	c8	3	LEU

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Mol	Chain	Res	Type
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	7	GLU
20	c8	8	GLN
20	c8	20	THR
20	c8	25	ASN
20	c8	26	ILE
20	c8	27	LYS
20	c8	28	ILE
20	c8	29	VAL
20	c8	33	THR
20	c8	34	THR
20	c8	36	LYS
20	c8	38	VAL
20	c8	40	ARG
20	c8	46	VAL
20	c8	55	HIS
20	c8	61	LEU
20	c8	63	GLN
20	c8	66	LEU
20	c8	80	LYS
20	c8	105	VAL
20	c8	116	LEU
20	c8	119	ILE
20	c8	133	VAL
20	c8	143	ARG
20	c8	144	ARG
21	c9	6	VAL
21	c9	28	LEU
21	c9	34	VAL
21	c9	37	VAL
21	c9	41	SER
21	c9	51	GLU
21	c9	68	ARG
21	c9	70	GLN
21	c9	71	VAL
21	c9	86	ARG
21	c9	91	TYR
21	c9	102	ARG
21	c9	105	LEU
21	c9	116	ILE

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Mol	Chain	Res	Type
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	132	LEU
21	c9	133	ASP
21	c9	139	THR
21	c9	141	GLU
21	c9	142	GLU
21	c9	144	GLU
22	d0	13	GLU
22	d0	16	GLN
22	d0	22	ILE
22	d0	23	ARG
22	d0	25	THR
22	d0	27	THR
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	44	ASN
22	d0	51	VAL
22	d0	57	ARG
22	d0	60	THR
22	d0	62	VAL
22	d0	63	LEU
22	d0	70	THR
22	d0	72	ASN
22	d0	74	GLU
22	d0	81	THR
22	d0	88	LYS
22	d0	99	ILE
22	d0	100	VAL
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	108	ILE
22	d0	113	ASP
22	d0	115	GLU
22	d0	117	VAL
22	d0	118	VAL
22	d0	121	ASN
23	d1	2	GLU

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Mol	Chain	Res	Type
23	d1	3	ASN
23	d1	5	LYS
23	d1	11	LEU
23	d1	12	TYR
23	d1	25	LYS
23	d1	32	VAL
23	d1	34	ILE
23	d1	38	LYS
23	d1	39	VAL
23	d1	41	GLU
23	d1	50	TYR
23	d1	52	THR
23	d1	68	SER
23	d1	69	LEU
23	d1	75	ASN
23	d1	78	LEU
23	d1	81	ASN
24	d2	7	LEU
24	d2	20	THR
24	d2	22	LYS
24	d2	23	ARG
24	d2	25	VAL
24	d2	26	LEU
24	d2	49	GLU
24	d2	65	LEU
24	d2	93	LEU
24	d2	98	GLN
24	d2	103	ILE
24	d2	105	THR
24	d2	117	ARG
24	d2	119	LYS
24	d2	124	LYS
24	d2	125	ILE
24	d2	129	VAL
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	28	ASN
25	d3	33	LEU
25	d3	34	LEU
25	d3	36	THR
25	d3	40	SER

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Mol	Chain	Res	Type
25	d3	52	ILE
25	d3	59	ILE
25	d3	73	ARG
25	d3	78	LYS
25	d3	82	LYS
25	d3	83	VAL
25	d3	84	THR
25	d3	96	VAL
25	d3	98	GLU
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	112	LYS
25	d3	117	ILE
25	d3	121	ARG
25	d3	125	VAL
25	d3	128	SER
25	d3	133	LEU
25	d3	140	LYS
26	d4	5	VAL
26	d4	6	THR
26	d4	10	ARG
26	d4	24	VAL
26	d4	29	HIS
26	d4	36	SER
26	d4	43	LYS
26	d4	46	GLU
26	d4	47	VAL
26	d4	49	LYS
26	d4	51	GLU
26	d4	57	VAL
26	d4	62	THR
26	d4	83	LYS
26	d4	88	THR
26	d4	91	LEU
26	d4	92	VAL
26	d4	100	VAL
26	d4	105	ARG
26	d4	121	THR
26	d4	125	LEU
26	d4	127	LYS
26	d4	128	LYS

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Mol	Chain	Res	Type
26	d4	133	ASN
27	d5	41	ILE
27	d5	43	ASP
27	d5	46	LYS
27	d5	51	LEU
27	d5	52	LYS
27	d5	60	VAL
27	d5	71	ILE
27	d5	75	LEU
27	d5	81	ARG
27	d5	88	ILE
27	d5	90	LYS
27	d5	97	LYS
28	d6	4	LYS
28	d6	10	ARG
28	d6	12	LYS
28	d6	15	ARG
28	d6	18	VAL
28	d6	25	ASN
28	d6	28	LYS
28	d6	32	LYS
28	d6	41	ILE
28	d6	44	ILE
28	d6	53	LEU
28	d6	54	SER
28	d6	55	GLU
28	d6	67	THR
28	d6	79	ILE
28	d6	85	ARG
28	d6	90	GLU
29	d7	3	LEU
29	d7	4	VAL
29	d7	11	THR
29	d7	15	GLU
29	d7	25	VAL
29	d7	35	VAL
29	d7	43	ILE
29	d7	52	THR
29	d7	72	LYS
29	d7	74	SER
29	d7	77	THR
30	d8	8	THR

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Mol	Chain	Res	Type
30	d8	11	LYS
30	d8	19	THR
30	d8	22	ARG
30	d8	26	THR
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	39	THR
30	d8	40	ILE
30	d8	49	ARG
30	d8	54	LEU
30	d8	58	GLU
30	d8	61	ARG
30	d8	66	LEU
31	d9	6	VAL
31	d9	10	HIS
31	d9	12	ARG
31	d9	19	ARG
31	d9	25	SER
31	d9	26	SER
31	d9	30	LEU
31	d9	31	ILE
31	d9	32	ARG
31	d9	36	LEU
31	d9	39	CYS
31	d9	54	LYS
80	e0	4	VAL
80	e0	13	LYS
80	e0	14	VAL
80	e0	21	VAL
80	e0	26	LYS
80	e0	29	LYS
80	e0	31	LYS
80	e0	38	LEU
80	e0	39	LEU
80	e0	41	THR
80	e0	44	PHE
80	e0	45	VAL
80	e0	46	ASN
80	e0	48	THR
80	e0	49	LEU
80	e0	54	ARG

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Mol	Chain	Res	Type
33	e1	82	LYS
33	e1	84	VAL
33	e1	86	THR
33	e1	91	ILE
33	e1	96	LYS
33	e1	97	LYS
33	e1	106	TYR
33	e1	107	LYS
33	e1	109	ASP
33	e1	113	LYS
33	e1	115	THR
33	e1	116	LYS
33	e1	119	ARG
33	e1	130	VAL
33	e1	135	HIS
33	e1	138	ARG
33	e1	147	VAL
33	e1	148	TYR
33	e1	150	VAL
33	e1	151	ASN
34	sR	13	LEU
34	sR	21	THR
34	sR	23	LEU
34	sR	29	GLN
34	sR	47	LEU
34	sR	52	GLN
34	sR	58	VAL
34	sR	64	HIS
34	sR	65	SER
34	sR	66	HIS
34	sR	68	VAL
34	sR	72	THR
34	sR	76	ASP
34	sR	82	SER
34	sR	96	THR
34	sR	98	GLU
34	sR	121	MET
34	sR	145	LEU
34	sR	157	VAL
34	sR	166	SER
34	sR	167	VAL
34	sR	176	LYS

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Mol	Chain	Res	Type
34	sR	178	VAL
34	sR	185	GLN
34	sR	209	THR
34	sR	232	TYR
34	sR	237	GLN
34	sR	258	THR
34	sR	266	ASP
34	sR	274	LEU
34	sR	275	ARG
34	sR	286	GLU
34	sR	297	ASP
34	sR	310	ILE
34	sR	314	GLN
35	sM	23	LYS
35	sM	24	GLU
35	sM	28	SER
35	sM	29	ASN
35	sM	41	SER
35	sM	43	ASP
35	sM	48	ARG
35	sM	61	ILE
35	sM	68	ARG
35	sM	74	LYS
35	sM	75	ASP
35	sM	77	THR
35	sM	79	SER
35	sM	82	THR
39	l2	15	ILE
39	l2	32	LEU
39	l2	41	ILE
39	l2	44	ILE
39	l2	45	VAL
39	l2	48	ILE
39	l2	61	VAL
39	l2	62	VAL
39	l2	64	ARG
39	l2	71	LEU
39	l2	82	VAL
39	l2	84	THR
39	l2	101	VAL
39	l2	109	GLU
39	l2	114	SER

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Mol	Chain	Res	Type
39	l2	116	VAL
39	l2	119	LYS
39	l2	123	ARG
39	l2	126	LEU
39	l2	134	VAL
39	l2	137	ILE
39	l2	142	ASP
39	l2	148	VAL
39	l2	157	VAL
39	l2	165	VAL
39	l2	169	ILE
39	l2	177	LYS
39	l2	179	LEU
39	l2	191	LEU
39	l2	193	ARG
39	l2	204	MET
39	l2	206	PRO
39	l2	207	VAL
39	l2	225	ILE
39	l2	230	VAL
39	l2	245	LEU
39	l2	246	LEU
39	l2	247	ARG
40	l3	3	HIS
40	l3	4	ARG
40	l3	10	ARG
40	l3	17	LEU
40	l3	19	ARG
40	l3	20	LYS
40	l3	21	ARG
40	l3	24	SER
40	l3	30	LYS
40	l3	37	ARG
40	l3	38	SER
40	l3	41	VAL
40	l3	44	THR
40	l3	56	ILE
40	l3	60	LEU
40	l3	66	LYS
40	l3	69	LYS
40	l3	73	VAL
40	l3	77	THR

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Mol	Chain	Res	Type
40	l3	79	VAL
40	l3	81	THR
40	l3	85	VAL
40	l3	87	VAL
40	l3	103	THR
40	l3	114	VAL
40	l3	126	LYS
40	l3	132	LYS
40	l3	139	GLN
40	l3	146	ARG
40	l3	148	LEU
40	l3	150	ARG
40	l3	156	SER
40	l3	157	VAL
40	l3	169	THR
40	l3	173	GLN
40	l3	183	LEU
40	l3	188	ILE
40	l3	192	VAL
40	l3	196	ARG
40	l3	200	GLU
40	l3	201	LYS
40	l3	202	THR
40	l3	208	VAL
40	l3	211	GLN
40	l3	214	MET
40	l3	221	THR
40	l3	229	VAL
40	l3	232	ARG
40	l3	235	THR
40	l3	237	LYS
40	l3	238	LEU
40	l3	242	THR
40	l3	244	ARG
40	l3	246	LEU
40	l3	249	VAL
40	l3	252	ILE
40	l3	264	VAL
40	l3	266	ARG
40	l3	274	SER
40	l3	275	ARG
40	l3	282	ILE

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Mol	Chain	Res	Type
40	l3	284	ARG
40	l3	297	SER
40	l3	304	THR
40	l3	308	MET
40	l3	317	ILE
40	l3	322	ILE
40	l3	328	ILE
40	l3	335	ILE
40	l3	338	LEU
40	l3	346	THR
40	l3	354	VAL
40	l3	359	ILE
40	l3	363	SER
40	l3	382	THR
40	l3	386	ASP
41	l4	3	ARG
41	l4	6	VAL
41	l4	25	VAL
41	l4	47	ARG
41	l4	52	VAL
41	l4	53	SER
41	l4	55	LYS
41	l4	69	ARG
41	l4	73	ARG
41	l4	90	PHE
41	l4	93	MET
41	l4	98	ARG
41	l4	112	LYS
41	l4	118	LYS
41	l4	122	THR
41	l4	126	ILE
41	l4	129	THR
41	l4	144	LYS
41	l4	145	ILE
41	l4	148	ILE
41	l4	151	VAL
41	l4	152	VAL
41	l4	156	LEU
41	l4	159	ILE
41	l4	170	LYS
41	l4	172	VAL
41	l4	177	ASP

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Mol	Chain	Res	Type
41	l4	179	LEU
41	l4	182	LEU
41	l4	186	LYS
41	l4	187	LEU
41	l4	191	LYS
41	l4	193	LYS
41	l4	203	ARG
41	l4	206	LEU
41	l4	215	ILE
41	l4	222	VAL
41	l4	226	GLU
41	l4	230	VAL
41	l4	233	LEU
41	l4	246	ARG
41	l4	258	LEU
41	l4	267	VAL
41	l4	287	THR
41	l4	289	ILE
41	l4	290	ILE
41	l4	291	ASN
41	l4	299	ILE
41	l4	300	ARG
41	l4	301	PRO
41	l4	304	GLN
41	l4	306	THR
41	l4	307	GLN
41	l4	310	THR
41	l4	313	LEU
41	l4	319	LYS
41	l4	323	VAL
41	l4	327	LEU
41	l4	333	VAL
41	l4	338	LYS
41	l4	339	LEU
41	l4	342	LYS
41	l4	345	GLU
41	l4	347	THR
41	l4	349	THR
41	l4	356	THR
41	l4	357	GLU
41	l4	359	LEU
42	l5	9	SER

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Mol	Chain	Res	Type
42	15	10	SER
42	15	15	ARG
42	15	34	LYS
42	15	35	ARG
42	15	41	LYS
42	15	51	LEU
42	15	61	ILE
42	15	68	THR
42	15	70	THR
42	15	73	VAL
42	15	74	VAL
42	15	75	LEU
42	15	109	THR
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	115	LEU
42	15	118	THR
42	15	120	LYS
42	15	131	LEU
42	15	133	GLU
42	15	135	VAL
42	15	136	GLU
42	15	140	ARG
42	15	144	VAL
42	15	146	LEU
42	15	148	ILE
42	15	152	ARG
42	15	155	THR
42	15	158	ARG
42	15	164	LYS
42	15	176	SER
42	15	177	GLU
42	15	183	TRP
42	15	185	PHE
42	15	187	THR
42	15	189	GLU
42	15	194	LEU
42	15	210	GLU
42	15	211	LEU
42	15	218	ARG
42	15	227	LEU

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Mol	Chain	Res	Type
42	15	230	ASP
42	15	236	LEU
42	15	239	ILE
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	262	LYS
42	15	268	GLU
42	15	271	LYS
42	15	275	THR
42	15	279	LYS
42	15	293	LEU
43	16	8	LYS
43	16	14	ASP
43	16	15	VAL
43	16	20	LYS
43	16	21	THR
43	16	29	LYS
43	16	31	ARG
43	16	46	ARG
43	16	64	LEU
43	16	65	ILE
43	16	78	ARG
43	16	82	ARG
43	16	89	THR
43	16	90	LYS
43	16	91	VAL
43	16	98	VAL
43	16	99	GLU
43	16	131	LYS
43	16	133	GLU
43	16	150	LYS
43	16	151	LYS
43	16	152	THR
43	16	155	LEU
43	16	166	LYS
43	16	170	LYS
43	16	175	LYS
44	17	30	ARG
44	17	41	ARG
44	17	45	LEU
44	17	54	GLU

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Mol	Chain	Res	Type
44	17	60	ARG
44	17	70	LYS
44	17	82	LYS
44	17	83	LEU
44	17	88	ARG
44	17	94	LYS
44	17	100	ARG
44	17	101	LYS
44	17	121	LYS
44	17	124	LEU
44	17	130	ILE
44	17	156	ILE
44	17	158	LYS
44	17	159	GLN
44	17	173	LEU
44	17	178	ILE
44	17	179	LEU
44	17	181	ILE
44	17	184	LEU
44	17	193	PRO
44	17	219	LYS
44	17	229	PHE
44	17	239	LEU
44	17	242	SER
44	17	244	ASN
45	18	29	SER
45	18	40	VAL
45	18	41	GLN
45	18	46	LEU
45	18	50	VAL
45	18	65	LEU
45	18	68	ARG
45	18	71	VAL
45	18	74	THR
45	18	79	GLN
45	18	81	THR
45	18	82	LEU
45	18	83	ASP
45	18	93	LEU
45	18	95	ASN
45	18	128	LYS
45	18	132	VAL

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Mol	Chain	Res	Type
45	18	136	LEU
45	18	146	LYS
45	18	147	LYS
45	18	149	LYS
45	18	152	LEU
45	18	153	ILE
45	18	160	ILE
45	18	163	VAL
45	18	164	VAL
45	18	169	LEU
45	18	172	LYS
45	18	183	LYS
45	18	200	LEU
45	18	208	GLU
45	18	211	LEU
45	18	213	LYS
45	18	214	LEU
45	18	224	ASP
45	18	231	LYS
45	18	245	LYS
45	18	246	MET
45	18	248	LYS
46	19	5	GLN
46	19	6	THR
46	19	16	VAL
46	19	18	VAL
46	19	19	SER
46	19	31	ARG
46	19	33	THR
46	19	37	ASN
46	19	43	VAL
46	19	44	THR
46	19	51	GLN
46	19	52	LEU
46	19	55	VAL
46	19	62	ARG
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	71	VAL
46	19	73	SER
46	19	75	VAL

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Mol	Chain	Res	Type
46	l9	80	THR
46	l9	82	VAL
46	l9	92	TYR
46	l9	115	ARG
46	l9	118	LEU
46	l9	121	LYS
46	l9	122	LYS
46	l9	123	ILE
46	l9	132	VAL
46	l9	133	THR
46	l9	138	THR
46	l9	143	GLU
46	l9	144	ILE
46	l9	151	VAL
46	l9	161	LEU
46	l9	162	GLN
46	l9	163	GLN
46	l9	166	ARG
46	l9	167	VAL
46	l9	173	ARG
46	l9	179	ILE
46	l9	191	LEU
47	m0	4	ARG
47	m0	24	ARG
47	m0	31	ILE
47	m0	32	ARG
47	m0	36	LEU
47	m0	42	THR
47	m0	44	ASP
47	m0	48	LEU
47	m0	50	VAL
47	m0	52	LEU
47	m0	57	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	74	LYS
47	m0	77	THR
47	m0	78	THR
47	m0	83	ASP
47	m0	87	LEU
47	m0	91	VAL
47	m0	99	ILE

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Mol	Chain	Res	Type
47	m0	128	ARG
47	m0	129	VAL
47	m0	133	GLN
47	m0	135	ILE
47	m0	143	SER
47	m0	144	ASN
47	m0	145	LYS
47	m0	156	ARG
47	m0	167	LEU
47	m0	169	LYS
47	m0	170	LYS
47	m0	176	LEU
47	m0	177	ASP
47	m0	182	LEU
47	m0	185	ARG
47	m0	197	VAL
47	m0	200	LEU
47	m0	205	SER
47	m0	206	LEU
47	m0	210	ILE
47	m0	211	ARG
47	m0	212	GLU
48	m1	6	GLN
48	m1	10	ARG
48	m1	12	LEU
48	m1	13	LYS
48	m1	16	LYS
48	m1	23	VAL
48	m1	30	LEU
48	m1	35	LYS
48	m1	37	LEU
48	m1	44	THR
48	m1	46	VAL
48	m1	49	LYS
48	m1	56	THR
48	m1	59	ILE
48	m1	60	ARG
48	m1	65	ILE
48	m1	71	VAL
48	m1	80	LEU
48	m1	85	LYS
48	m1	86	VAL

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Mol	Chain	Res	Type
48	m1	87	LYS
48	m1	99	THR
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	122	ILE
48	m1	129	VAL
48	m1	130	VAL
48	m1	138	VAL
48	m1	140	ARG
48	m1	147	THR
48	m1	152	HIS
48	m1	154	THR
48	m1	158	ASP
48	m1	159	THR
48	m1	171	VAL
49	m3	22	VAL
49	m3	24	VAL
49	m3	28	GLN
49	m3	31	LYS
49	m3	54	LEU
49	m3	57	VAL
49	m3	58	VAL
49	m3	59	ARG
49	m3	63	VAL
49	m3	67	ARG
49	m3	68	LYS
49	m3	69	VAL
49	m3	73	ARG
49	m3	76	THR
49	m3	85	LEU
49	m3	91	ARG
49	m3	93	ILE
49	m3	103	ASN
49	m3	107	GLU
49	m3	124	ILE
49	m3	131	LYS
49	m3	139	LEU
49	m3	147	ILE
49	m3	149	GLN
49	m3	152	THR
49	m3	165	SER

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Mol	Chain	Res	Type
49	m3	171	ARG
49	m3	175	SER
49	m3	176	GLU
49	m3	184	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	4	ASP
50	m4	6	ILE
50	m4	15	VAL
50	m4	16	GLU
50	m4	24	LYS
50	m4	27	GLN
50	m4	28	SER
50	m4	41	GLN
50	m4	42	LYS
50	m4	53	VAL
50	m4	58	ILE
50	m4	62	GLN
50	m4	63	VAL
50	m4	64	VAL
50	m4	66	THR
50	m4	68	LEU
50	m4	72	LEU
50	m4	80	THR
50	m4	82	SER
50	m4	85	TRP
50	m4	105	GLN
50	m4	106	ARG
50	m4	107	GLU
50	m4	108	ARG
50	m4	116	GLU
50	m4	124	ARG
50	m4	130	THR
50	m4	133	LYS
50	m4	135	LEU
51	m5	5	LYS
51	m5	8	GLU
51	m5	10	LEU
51	m5	15	GLN
51	m5	22	LEU
51	m5	27	VAL
51	m5	36	ILE

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Mol	Chain	Res	Type
51	m5	49	ARG
51	m5	50	ARG
51	m5	66	VAL
51	m5	67	ARG
51	m5	76	PRO
51	m5	80	THR
51	m5	83	LYS
51	m5	85	THR
51	m5	91	GLU
51	m5	92	LEU
51	m5	96	ARG
51	m5	97	SER
51	m5	105	ARG
51	m5	106	VAL
51	m5	117	ASN
51	m5	138	GLN
51	m5	142	ILE
51	m5	152	CYS
51	m5	153	ASP
51	m5	165	THR
51	m5	170	LYS
51	m5	171	SER
51	m5	179	LYS
51	m5	184	LYS
51	m5	190	THR
51	m5	204	LYS
52	m6	3	VAL
52	m6	4	GLU
52	m6	12	LYS
52	m6	16	VAL
52	m6	22	VAL
52	m6	25	LYS
52	m6	34	VAL
52	m6	46	GLU
52	m6	51	LYS
52	m6	58	LEU
52	m6	59	ARG
52	m6	67	THR
52	m6	74	ARG
52	m6	78	ARG
52	m6	79	ILE
52	m6	84	LEU

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Mol	Chain	Res	Type
52	m6	85	ARG
52	m6	89	SER
52	m6	94	ARG
52	m6	100	GLU
52	m6	106	GLU
52	m6	108	ILE
52	m6	110	PRO
52	m6	117	ARG
52	m6	122	GLN
52	m6	124	LEU
52	m6	128	ARG
52	m6	129	LEU
52	m6	130	LYS
52	m6	134	LYS
52	m6	140	LYS
52	m6	144	SER
52	m6	151	ASP
52	m6	152	VAL
52	m6	161	LYS
52	m6	162	VAL
52	m6	171	LYS
52	m6	175	THR
52	m6	182	ASN
52	m6	184	THR
52	m6	197	LEU
53	m7	7	THR
53	m7	9	THR
53	m7	20	SER
53	m7	23	ARG
53	m7	29	THR
53	m7	32	THR
53	m7	41	LEU
53	m7	52	LEU
53	m7	69	ARG
53	m7	78	VAL
53	m7	79	THR
53	m7	82	ARG
53	m7	89	LYS
53	m7	105	LYS
53	m7	110	THR
53	m7	112	LEU
53	m7	114	VAL

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Mol	Chain	Res	Type
53	m7	119	VAL
53	m7	121	GLN
53	m7	124	LYS
53	m7	126	ARG
53	m7	127	ARG
53	m7	128	ARG
53	m7	131	ARG
53	m7	136	ILE
53	m7	138	LYS
53	m7	140	GLU
53	m7	144	SER
53	m7	148	LEU
53	m7	150	VAL
53	m7	153	LYS
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER
54	m8	12	ARG
54	m8	22	ASP
54	m8	24	VAL
54	m8	26	LEU
54	m8	27	LYS
54	m8	31	LYS
54	m8	32	LEU
54	m8	34	THR
54	m8	40	THR
54	m8	46	LYS
54	m8	49	LEU
54	m8	57	ILE
54	m8	63	SER
54	m8	64	VAL
54	m8	72	LYS
54	m8	80	THR
54	m8	81	VAL
54	m8	83	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	98	LYS
54	m8	113	LYS
54	m8	127	LEU
54	m8	129	VAL
54	m8	135	GLN

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Mol	Chain	Res	Type
54	m8	138	LEU
54	m8	141	ARG
54	m8	146	SER
54	m8	147	ARG
54	m8	150	VAL
54	m8	165	ILE
54	m8	166	LEU
54	m8	170	ARG
54	m8	171	LYS
54	m8	176	ARG
54	m8	178	ARG
54	m8	180	ARG
54	m8	186	VAL
55	m9	7	GLN
55	m9	10	LEU
55	m9	14	VAL
55	m9	17	VAL
55	m9	19	LYS
55	m9	20	ARG
55	m9	29	THR
55	m9	31	GLU
55	m9	36	ASN
55	m9	43	LYS
55	m9	49	THR
55	m9	52	LYS
55	m9	56	THR
55	m9	57	VAL
55	m9	62	ARG
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	76	SER
55	m9	88	ARG
55	m9	98	ARG
55	m9	99	LEU
55	m9	105	LEU
55	m9	111	ASP
55	m9	114	LYS
55	m9	116	ASP
55	m9	117	LYS
55	m9	126	GLU
55	m9	138	LEU

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Mol	Chain	Res	Type
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	158	GLU
55	m9	164	LEU
55	m9	167	ARG
55	m9	170	ARG
55	m9	177	VAL
55	m9	180	LYS
56	n0	13	ARG
56	n0	16	THR
56	n0	23	LYS
56	n0	24	LEU
56	n0	32	SER
56	n0	45	LEU
56	n0	47	LYS
56	n0	50	LYS
56	n0	52	LYS
56	n0	53	LYS
56	n0	60	SER
56	n0	62	ASN
56	n0	63	GLN
56	n0	70	THR
56	n0	71	LYS
56	n0	72	VAL
56	n0	73	LYS
56	n0	87	THR
56	n0	92	LYS
56	n0	97	VAL
56	n0	100	VAL
56	n0	104	GLU
56	n0	105	THR
56	n0	106	LEU
56	n0	115	ARG
56	n0	117	ARG
56	n0	120	SER
56	n0	130	GLU
56	n0	131	LYS
56	n0	136	LYS
56	n0	137	ARG
56	n0	145	THR
56	n0	148	LEU

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Mol	Chain	Res	Type
56	n0	149	LYS
56	n0	155	ARG
56	n0	160	THR
56	n0	161	LYS
56	n0	162	THR
56	n0	164	SER
56	n0	166	LYS
56	n0	167	ARG
56	n0	169	SER
56	n0	172	TYR
57	n1	12	ARG
57	n1	17	ARG
57	n1	25	VAL
57	n1	26	HIS
57	n1	27	LEU
57	n1	35	LYS
57	n1	36	VAL
57	n1	47	SER
57	n1	55	LYS
57	n1	68	THR
57	n1	69	LYS
57	n1	71	SER
57	n1	75	ILE
57	n1	76	ILE
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	88	ARG
57	n1	89	LEU
57	n1	96	ILE
57	n1	97	LYS
57	n1	102	ARG
57	n1	122	GLN
57	n1	124	VAL
57	n1	127	GLN
57	n1	129	LYS
57	n1	130	ARG
57	n1	139	ARG
57	n1	140	ILE
57	n1	141	VAL
57	n1	143	THR
57	n1	149	GLN

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Mol	Chain	Res	Type
57	n1	150	THR
58	n2	11	ILE
58	n2	16	THR
58	n2	23	THR
58	n2	27	VAL
58	n2	37	LEU
58	n2	38	ILE
58	n2	43	VAL
58	n2	50	LEU
58	n2	54	VAL
58	n2	55	THR
58	n2	58	GLU
58	n2	62	VAL
58	n2	63	VAL
58	n2	64	THR
58	n2	68	THR
58	n2	81	LYS
58	n2	90	ARG
58	n2	94	ARG
58	n2	96	VAL
58	n2	98	THR
59	n3	13	ILE
59	n3	14	SER
59	n3	15	LEU
59	n3	42	SER
59	n3	48	ARG
59	n3	63	LYS
59	n3	66	LYS
59	n3	72	LYS
59	n3	73	VAL
59	n3	79	VAL
59	n3	83	LYS
59	n3	88	ARG
59	n3	91	VAL
59	n3	115	THR
60	n4	1	MET
60	n4	19	THR
60	n4	39	LEU
60	n4	54	LEU
60	n4	57	LYS
60	n4	63	ILE
60	n4	87	LEU

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Mol	Chain	Res	Type
60	n4	96	LEU
60	n4	97	LYS
60	n4	100	VAL
60	n4	104	ASN
60	n4	107	GLU
60	n4	126	GLU
60	n4	127	LYS
60	n4	135	SER
61	n5	27	ARG
61	n5	37	THR
61	n5	40	LEU
61	n5	46	TYR
61	n5	56	ARG
61	n5	57	LEU
61	n5	63	ILE
61	n5	71	THR
61	n5	74	LYS
61	n5	78	ASP
61	n5	81	ILE
61	n5	86	VAL
61	n5	100	LYS
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	117	ASN
61	n5	119	THR
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	142	ILE
62	n6	4	GLN
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	17	LYS
62	n6	25	SER
62	n6	37	LYS
62	n6	39	LEU
62	n6	45	ILE
62	n6	51	ARG
62	n6	52	ARG
62	n6	53	ASP

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Mol	Chain	Res	Type
62	n6	55	GLU
62	n6	56	VAL
62	n6	57	LEU
62	n6	62	SER
62	n6	64	LYS
62	n6	66	GLN
62	n6	80	VAL
62	n6	86	THR
62	n6	87	LYS
62	n6	88	GLU
62	n6	108	LYS
62	n6	113	LYS
62	n6	119	ILE
62	n6	120	GLN
62	n6	125	LYS
62	n6	127	GLU
63	n7	3	LYS
63	n7	5	LEU
63	n7	14	VAL
63	n7	17	ARG
63	n7	21	LYS
63	n7	24	VAL
63	n7	26	VAL
63	n7	36	HIS
63	n7	46	ILE
63	n7	52	LYS
63	n7	72	ILE
63	n7	81	LEU
63	n7	83	THR
63	n7	86	THR
63	n7	88	ASP
63	n7	90	GLU
63	n7	92	PHE
63	n7	94	SER
63	n7	98	THR
63	n7	102	GLU
63	n7	103	GLN
63	n7	105	SER
63	n7	126	LYS
63	n7	134	LEU
63	n7	135	ARG
64	n8	4	ARG

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Mol	Chain	Res	Type
64	n8	6	THR
64	n8	8	THR
64	n8	10	LYS
64	n8	12	ARG
64	n8	14	HIS
64	n8	15	VAL
64	n8	46	ASP
64	n8	64	GLN
64	n8	65	GLN
64	n8	70	LYS
64	n8	73	LEU
64	n8	76	ASP
64	n8	78	LEU
64	n8	82	ILE
64	n8	85	ASP
64	n8	91	LEU
64	n8	98	THR
64	n8	115	LYS
64	n8	124	ILE
64	n8	130	VAL
64	n8	132	LYS
64	n8	133	LEU
64	n8	144	VAL
64	n8	146	GLU
65	n9	3	LYS
65	n9	5	LYS
65	n9	12	GLN
65	n9	19	ASN
65	n9	21	ILE
65	n9	22	LYS
65	n9	23	LYS
65	n9	25	LYS
65	n9	35	VAL
65	n9	38	LYS
65	n9	54	LEU
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	9	SER
66	o0	10	ILE
66	o0	11	ASN
66	o0	18	ILE

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Mol	Chain	Res	Type
66	o0	32	LYS
66	o0	33	SER
66	o0	34	LEU
66	o0	43	ILE
66	o0	44	ILE
66	o0	48	THR
66	o0	50	VAL
66	o0	55	GLU
66	o0	74	ASN
66	o0	81	VAL
66	o0	86	ARG
66	o0	87	VAL
67	o1	6	ASP
67	o1	8	VAL
67	o1	13	THR
67	o1	16	LEU
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	37	LYS
67	o1	38	LYS
67	o1	44	MET
67	o1	48	ASP
67	o1	61	LYS
67	o1	68	GLU
67	o1	71	LEU
67	o1	76	SER
67	o1	82	GLU
67	o1	83	GLU
67	o1	89	LEU
67	o1	90	PHE
67	o1	93	VAL
67	o1	96	VAL
67	o1	102	LYS
67	o1	104	LEU
67	o1	106	THR
67	o1	107	VAL
67	o1	110	GLU
67	o1	112	ASP
68	o2	4	LEU
68	o2	5	PRO
68	o2	6	HIS

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Mol	Chain	Res	Type
68	o2	10	VAL
68	o2	16	LYS
68	o2	19	ARG
68	o2	21	HIS
68	o2	31	ASN
68	o2	33	ARG
68	o2	35	GLN
68	o2	51	SER
68	o2	52	GLN
68	o2	54	LYS
68	o2	61	LYS
68	o2	62	LYS
68	o2	71	HIS
68	o2	73	THR
68	o2	75	LEU
68	o2	76	VAL
68	o2	81	ASP
68	o2	82	LEU
68	o2	84	THR
68	o2	86	THR
68	o2	87	MET
68	o2	91	THR
68	o2	106	VAL
68	o2	113	LYS
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	10	LYS
69	o3	20	LYS
69	o3	31	LYS
69	o3	48	ARG
69	o3	49	ILE
69	o3	56	SER
69	o3	57	LYS
69	o3	59	VAL
69	o3	74	THR
69	o3	84	THR
69	o3	92	LYS
69	o3	93	THR
69	o3	97	SER
69	o3	98	VAL
69	o3	107	ILE

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Mol	Chain	Res	Type
70	o4	5	VAL
70	o4	8	ARG
70	o4	9	ARG
70	o4	20	ILE
70	o4	21	LYS
70	o4	23	VAL
70	o4	29	ILE
70	o4	35	VAL
70	o4	38	LEU
70	o4	47	CYS
70	o4	58	ARG
70	o4	65	VAL
70	o4	68	THR
70	o4	71	THR
70	o4	79	SER
70	o4	85	VAL
70	o4	88	ARG
70	o4	95	ILE
70	o4	104	VAL
70	o4	105	VAL
71	o5	11	THR
71	o5	15	GLU
71	o5	20	GLN
71	o5	21	LEU
71	o5	27	GLU
71	o5	28	LEU
71	o5	36	LEU
71	o5	37	SER
71	o5	40	SER
71	o5	41	LEU
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	51	ILE
71	o5	57	VAL
71	o5	62	GLN
71	o5	63	ARG
71	o5	73	LYS
71	o5	81	ARG
71	o5	85	THR
71	o5	89	ARG
71	o5	90	ARG

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Mol	Chain	Res	Type
71	o5	101	THR
71	o5	104	GLN
71	o5	105	ARG
71	o5	107	LYS
71	o5	108	GLN
71	o5	119	LYS
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	12	ASN
72	o6	18	THR
72	o6	26	ILE
72	o6	34	SER
72	o6	35	ASN
72	o6	37	THR
72	o6	38	LYS
72	o6	43	LEU
72	o6	45	ARG
72	o6	46	GLU
72	o6	47	ILE
72	o6	57	LEU
72	o6	58	ILE
72	o6	59	ASP
72	o6	60	LEU
72	o6	68	ARG
72	o6	76	ARG
72	o6	79	SER
72	o6	84	LYS
72	o6	94	ILE
72	o6	98	ARG
73	o7	5	THR
73	o7	17	THR
73	o7	21	ARG
73	o7	25	ARG
73	o7	33	THR
73	o7	36	SER
73	o7	40	PRO
73	o7	44	THR
73	o7	46	SER
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR

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Mol	Chain	Res	Type
73	o7	67	LEU
73	o7	70	VAL
73	o7	80	THR
73	o7	85	LYS
74	o8	5	ILE
74	o8	12	LEU
74	o8	14	LEU
74	o8	20	VAL
74	o8	24	THR
74	o8	31	LEU
74	o8	41	THR
74	o8	45	VAL
74	o8	53	THR
74	o8	64	LYS
74	o8	65	LEU
74	o8	69	LEU
74	o8	72	THR
74	o8	78	LEU
75	o9	4	GLN
75	o9	17	LYS
75	o9	21	ARG
75	o9	23	LEU
75	o9	28	ARG
75	o9	45	ARG
75	o9	51	ILE
76	q0	79	GLU
76	q0	80	PRO
76	q0	85	LEU
76	q0	87	SER
76	q0	94	SER
76	q0	106	ARG
76	q0	108	THR
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
76	q0	127	LEU
77	q1	2	ARG
77	q1	6	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	21	ARG
77	q1	23	ARG

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Mol	Chain	Res	Type
78	q2	2	VAL
78	q2	6	LYS
78	q2	7	THR
78	q2	8	ARG
78	q2	15	LYS
78	q2	26	THR
78	q2	45	ARG
78	q2	46	LYS
78	q2	48	SER
78	q2	61	LYS
78	q2	68	VAL
78	q2	71	ARG
78	q2	78	LYS
78	q2	79	THR
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	93	LEU
78	q2	100	LYS
78	q2	104	LEU
79	q3	3	LYS
79	q3	10	ILE
79	q3	16	VAL
79	q3	20	SER
79	q3	24	ARG
79	q3	33	GLN
79	q3	40	SER
79	q3	42	CYS
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	57	CYS
79	q3	64	VAL
79	q3	70	THR
79	q3	73	THR
79	q3	81	SER
79	q3	82	THR
79	q3	90	VAL
79	q3	91	GLU
82	p0	4	ILE
82	p0	10	GLU

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Mol	Chain	Res	Type
82	p0	15	LEU
82	p0	25	LEU
82	p0	30	VAL
82	p0	31	ASP
82	p0	39	HIS
82	p0	42	ARG
82	p0	43	LYS
82	p0	48	ARG
82	p0	52	LEU
82	p0	58	MET
82	p0	63	ILE
82	p0	72	ASP
82	p0	80	VAL
82	p0	81	LYS
82	p0	93	LEU
82	p0	97	LYS
82	p0	101	VAL
82	p0	185	LEU
82	p0	193	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (184) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	168	HIS
3	S1	232	HIS
4	S2	201	ASN
5	S3	62	ASN
6	S4	67	GLN
6	S4	197	HIS
6	S4	231	GLN
7	S5	86	GLN
7	S5	103	ASN
7	S5	139	ASN
8	S6	65	GLN
8	S6	190	GLN
8	S6	201	GLN
9	S7	71	HIS
9	S7	74	GLN
9	S7	170	GLN
9	S7	174	ASN
12	C0	12	HIS
15	C3	58	HIS

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Mol	Chain	Res	Type
15	C3	123	HIS
19	C7	62	GLN
21	C9	23	GLN
21	C9	101	ASN
22	D0	18	GLN
22	D0	121	ASN
23	D1	70	ASN
24	D2	12	ASN
24	D2	16	ASN
24	D2	44	HIS
24	D2	56	HIS
26	D4	63	GLN
27	D5	95	HIS
29	D7	49	HIS
33	E1	145	HIS
34	SR	196	ASN
34	SR	268	GLN
39	L2	8	GLN
39	L2	50	HIS
39	L2	205	ASN
39	L2	209	HIS
40	L3	211	GLN
40	L3	212	ASN
40	L3	256	HIS
42	L5	40	HIS
42	L5	81	HIS
42	L5	111	GLN
42	L5	203	HIS
42	L5	244	HIS
42	L5	264	GLN
43	L6	28	GLN
43	L6	97	ASN
44	L7	25	GLN
44	L7	244	ASN
45	L8	38	GLN
45	L8	41	GLN
46	L9	5	GLN
46	L9	8	GLN
46	L9	50	ASN
46	L9	59	ASN
46	L9	169	ASN
47	M0	59	GLN

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Mol	Chain	Res	Type
47	M0	144	ASN
49	M3	19	GLN
50	M4	126	GLN
51	M5	117	ASN
52	M6	50	ASN
52	M6	182	ASN
53	M7	55	GLN
53	M7	133	HIS
53	M7	137	ASN
54	M8	73	GLN
55	M9	34	GLN
55	M9	66	HIS
55	M9	130	ASN
56	N0	138	GLN
57	N1	5	HIS
57	N1	98	HIS
58	N2	87	ASN
59	N3	4	ASN
59	N3	98	ASN
60	N4	42	GLN
63	N7	36	HIS
64	N8	11	HIS
65	N9	10	HIS
67	O1	21	HIS
73	O7	79	GLN
78	Q2	22	GLN
78	Q2	99	GLN
78	Q2	102	GLN
79	Q3	33	GLN
2	s0	21	ASN
3	s1	40	ASN
3	s1	74	GLN
3	s1	124	ASN
3	s1	149	GLN
4	s2	201	ASN
4	s2	220	ASN
5	s3	74	GLN
6	s4	36	HIS
7	s5	44	ASN
7	s5	104	ASN
7	s5	131	GLN
7	s5	224	ASN

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Mol	Chain	Res	Type
9	s7	5	GLN
9	s7	11	GLN
9	s7	110	GLN
9	s7	122	HIS
9	s7	180	GLN
10	s8	116	HIS
11	s9	131	GLN
11	s9	142	ASN
13	c1	14	GLN
13	c1	16	GLN
15	c3	49	GLN
16	c4	65	GLN
18	c6	100	GLN
19	c7	29	GLN
19	c7	101	ASN
20	c8	8	GLN
20	c8	78	HIS
20	c8	90	ASN
20	c8	103	ASN
21	c9	64	HIS
22	d0	16	GLN
22	d0	48	HIS
23	d1	21	ASN
25	d3	63	GLN
26	d4	22	GLN
26	d4	133	ASN
28	d6	72	HIS
34	sR	101	GLN
34	sR	237	GLN
39	l2	19	HIS
39	l2	50	HIS
39	l2	216	HIS
40	l3	11	HIS
40	l3	231	HIS
41	l4	45	ASN
45	l8	28	HIS
45	l8	61	GLN
45	l8	191	ASN
45	l8	243	GLN
47	m0	14	ASN
47	m0	23	ASN
47	m0	59	GLN

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Mol	Chain	Res	Type
47	m0	133	GLN
48	m1	20	ASN
49	m3	17	HIS
49	m3	137	GLN
49	m3	162	ASN
52	m6	31	GLN
52	m6	50	ASN
52	m6	55	HIS
53	m7	125	GLN
53	m7	133	HIS
54	m8	152	HIS
55	m9	7	GLN
55	m9	66	HIS
55	m9	156	ASN
56	n0	63	GLN
56	n0	138	GLN
57	n1	5	HIS
58	n2	101	ASN
59	n3	33	ASN
61	n5	111	ASN
62	n6	66	GLN
63	n7	57	HIS
64	n8	11	HIS
64	n8	49	HIS
64	n8	64	GLN
65	n9	6	ASN
65	n9	17	HIS
68	o2	52	GLN
68	o2	104	ASN
69	o3	13	HIS
71	o5	20	GLN
71	o5	76	GLN
71	o5	108	GLN
75	o9	4	GLN
75	o9	20	ASN
75	o9	43	ASN
76	q0	117	HIS
78	q2	27	GLN
78	q2	90	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1747/1800 (97%)	483 (27%)	50 (2%)
1	6	1792/1800 (99%)	484 (27%)	49 (2%)
36	1	3145/3396 (92%)	696 (22%)	93 (2%)
36	5	3145/3396 (92%)	698 (22%)	78 (2%)
37	3	120/121 (99%)	17 (14%)	1 (0%)
37	7	120/121 (99%)	20 (16%)	1 (0%)
38	4	157/158 (99%)	41 (26%)	6 (3%)
38	8	157/158 (99%)	38 (24%)	1 (0%)
All	All	10383/10950 (94%)	2477 (23%)	279 (2%)

All (2477) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	57	G
1	2	60	U
1	2	66	U
1	2	67	A
1	2	68	A
1	2	69	G
1	2	71	A
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	77	U
1	2	95	G
1	2	103	A
1	2	104	A
1	2	114	C
1	2	115	G
1	2	126	A
1	2	127	G
1	2	131	C

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Mol	Chain	Res	Type
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	167	U
1	2	169	A
1	2	178	U
1	2	185	U
1	2	186	C
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	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

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Mol	Chain	Res	Type
1	2	239	C
1	2	240	U
1	2	241	U
1	2	242	U
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	262	U
1	2	265	A
1	2	271	A
1	2	272	U
1	2	274	G
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	288	A
1	2	290	G
1	2	299	A
1	2	302	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	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	381	C
1	2	387	A
1	2	397	A
1	2	400	A
1	2	402	C
1	2	404	G
1	2	416	A

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Mol	Chain	Res	Type
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	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	464	A
1	2	468	A
1	2	477	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
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	515	A
1	2	519	C
1	2	520	A
1	2	527	A

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Mol	Chain	Res	Type
1	2	534	A
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	555	A
1	2	556	A
1	2	558	U
1	2	559	C
1	2	565	C
1	2	566	C
1	2	579	A
1	2	580	A
1	2	594	A
1	2	595	G
1	2	597	G
1	2	606	A
1	2	609	U
1	2	611	U
1	2	617	U
1	2	619	A
1	2	620	A
1	2	621	A
1	2	622	A
1	2	623	A
1	2	630	A
1	2	639	U
1	2	640	U
1	2	645	C
1	2	648	G
1	2	650	U
1	2	653	C
1	2	655	G
1	2	656	G
1	2	658	C
1	2	677	G
1	2	680	U

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Mol	Chain	Res	Type
1	2	682	C
1	2	684	A
1	2	694	U
1	2	696	C
1	2	697	C
1	2	700	C
1	2	701	U
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	707	A
1	2	709	C
1	2	710	U
1	2	711	U
1	2	712	G
1	2	713	A
1	2	714	G
1	2	717	C
1	2	718	U
1	2	719	U
1	2	721	U
1	2	722	G
1	2	723	G
1	2	724	C
1	2	725	U
1	2	727	U
1	2	728	U
1	2	729	G
1	2	730	G
1	2	731	C
1	2	732	G
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	742	U
1	2	744	U
1	2	753	A
1	2	754	A

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Mol	Chain	Res	Type
1	2	755	A
1	2	756	A
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	778	G
1	2	779	U
1	2	781	U
1	2	782	U
1	2	783	G
1	2	784	C
1	2	785	U
1	2	789	A
1	2	794	U
1	2	795	U
1	2	806	A
1	2	811	A
1	2	812	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	822	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	837	G
1	2	840	U
1	2	841	U
1	2	846	G
1	2	854	U
1	2	856	A
1	2	861	U
1	2	862	A
1	2	863	A
1	2	864	U

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Mol	Chain	Res	Type
1	2	886	U
1	2	896	U
1	2	898	A
1	2	904	G
1	2	911	U
1	2	912	U
1	2	913	G
1	2	914	G
1	2	916	U
1	2	921	U
1	2	933	A
1	2	935	U
1	2	942	G
1	2	944	A
1	2	951	A
1	2	960	U
1	2	961	U
1	2	966	A
1	2	984	G
1	2	987	G
1	2	992	A
1	2	993	A
1	2	995	A
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1026	A
1	2	1028	C
1	2	1031	U
1	2	1039	A
1	2	1040	G
1	2	1052	U
1	2	1053	G
1	2	1058	U
1	2	1059	U
1	2	1060	U
1	2	1061	A
1	2	1075	C
1	2	1079	U
1	2	1081	A
1	2	1082	C
1	2	1086	A

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Mol	Chain	Res	Type
1	2	1091	A
1	2	1092	A
1	2	1096	C
1	2	1097	U
1	2	1100	G
1	2	1101	G
1	2	1111	G
1	2	1117	U
1	2	1121	C
1	2	1138	A
1	2	1143	A
1	2	1149	G
1	2	1150	G
1	2	1151	A
1	2	1157	A
1	2	1158	C
1	2	1159	C
1	2	1160	A
1	2	1163	A
1	2	1166	A
1	2	1167	G
1	2	1168	U
1	2	1176	G
1	2	1185	U
1	2	1191	U
1	2	1194	A
1	2	1196	A
1	2	1197	C
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1207	C
1	2	1217	A
1	2	1218	G
1	2	1226	A
1	2	1227	A
1	2	1228	G
1	2	1235	C
1	2	1241	G
1	2	1243	G
1	2	1244	A
1	2	1245	G

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Mol	Chain	Res	Type
1	2	1250	U
1	2	1251	U
1	2	1258	U
1	2	1284	C
1	2	1286	U
1	2	1287	A
1	2	1290	U
1	2	1314	U
1	2	1315	U
1	2	1321	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1342	C
1	2	1344	A
1	2	1345	A
1	2	1346	A
1	2	1361	U
1	2	1362	U
1	2	1363	U
1	2	1364	G
1	2	1367	G
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1383	G
1	2	1388	A
1	2	1390	U
1	2	1398	U
1	2	1399	C
1	2	1412	G
1	2	1413	U
1	2	1414	U
1	2	1415	U
1	2	1424	A
1	2	1427	A
1	2	1428	G
1	2	1431	C
1	2	1433	G
1	2	1445	G
1	2	1446	A
1	2	1457	C

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Mol	Chain	Res	Type
1	2	1458	G
1	2	1459	C
1	2	1461	C
1	2	1469	A
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1478	G
1	2	1481	C
1	2	1482	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1501	C
1	2	1506	G
1	2	1514	U
1	2	1516	A
1	2	1517	U
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1540	G
1	2	1556	A
1	2	1557	U
1	2	1559	A
1	2	1568	C
1	2	1569	A
1	2	1573	A
1	2	1574	G
1	2	1584	G
1	2	1590	G
1	2	1591	C
1	2	1596	C
1	2	1600	A
1	2	1601	G

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Mol	Chain	Res	Type
1	2	1614	A
1	2	1616	G
1	2	1619	C
1	2	1631	A
1	2	1634	C
1	2	1637	C
1	2	1657	U
1	2	1658	G
1	2	1663	G
1	2	1680	G
1	2	1682	U
1	2	1683	C
1	2	1684	U
1	2	1685	G
1	2	1719	A
1	2	1731	A
1	2	1747	G
1	2	1756	A
1	2	1760	G
1	2	1761	U
1	2	1762	A
1	2	1766	A
1	2	1768	G
1	2	1769	U
1	2	1770	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1795	U
1	2	1796	C
36	1	13	A
36	1	15	C
36	1	16	A
36	1	26	A
36	1	33	G
36	1	40	A
36	1	45	A
36	1	49	A
36	1	59	G

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Mol	Chain	Res	Type
36	1	60	A
36	1	65	A
36	1	66	A
36	1	74	G
36	1	76	G
36	1	83	U
36	1	92	G
36	1	93	C
36	1	94	G
36	1	99	A
36	1	109	A
36	1	110	G
36	1	111	C
36	1	116	A
36	1	117	U
36	1	121	A
36	1	122	A
36	1	133	U
36	1	135	C
36	1	136	G
36	1	147	U
36	1	156	G
36	1	157	A
36	1	165	A
36	1	166	C
36	1	169	U
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	210	U
36	1	218	G
36	1	219	A
36	1	224	C
36	1	237	G
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	247	C
36	1	248	U
36	1	249	U

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Mol	Chain	Res	Type
36	1	250	U
36	1	251	G
36	1	252	U
36	1	265	A
36	1	269	G
36	1	270	U
36	1	282	G
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	305	U
36	1	311	C
36	1	315	C
36	1	323	A
36	1	329	U
36	1	339	C
36	1	344	A
36	1	349	A
36	1	350	C
36	1	376	G
36	1	397	A
36	1	398	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	412	G
36	1	417	A
36	1	421	G
36	1	422	A
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	498	A
36	1	507	U
36	1	520	U
36	1	521	A
36	1	535	G
36	1	541	U
36	1	544	C
36	1	546	C

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Mol	Chain	Res	Type
36	1	547	G
36	1	548	G
36	1	549	U
36	1	551	A
36	1	552	G
36	1	555	U
36	1	556	U
36	1	557	A
36	1	559	A
36	1	560	G
36	1	578	A
36	1	579	G
36	1	585	A
36	1	592	A
36	1	600	G
36	1	604	G
36	1	607	A
36	1	609	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	636	C
36	1	638	C
36	1	640	U
36	1	649	A
36	1	660	A
36	1	661	G
36	1	677	A
36	1	681	U
36	1	683	U
36	1	691	A
36	1	705	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	725	G
36	1	726	G
36	1	727	G
36	1	764	U
36	1	765	C
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	781	G
36	1	785	G
36	1	806	A
36	1	811	U
36	1	816	A
36	1	817	A
36	1	830	A
36	1	837	A
36	1	849	C
36	1	859	G
36	1	860	G
36	1	861	C
36	1	874	U
36	1	879	U
36	1	882	A
36	1	890	C
36	1	896	A
36	1	897	U
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	921	A
36	1	923	C
36	1	924	G
36	1	937	G
36	1	939	U
36	1	943	U
36	1	944	C
36	1	959	C
36	1	960	U
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1001	G

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Mol	Chain	Res	Type
36	1	1002	A
36	1	1003	A
36	1	1006	A
36	1	1010	G
36	1	1013	G
36	1	1015	U
36	1	1016	C
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1036	A
36	1	1037	C
36	1	1042	U
36	1	1045	C
36	1	1047	A
36	1	1049	C
36	1	1064	A
36	1	1065	A
36	1	1068	C
36	1	1069	C
36	1	1072	G
36	1	1081	U
36	1	1082	U
36	1	1083	G
36	1	1087	G
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1111	U
36	1	1117	G
36	1	1128	U
36	1	1131	G
36	1	1149	G
36	1	1150	A

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Mol	Chain	Res	Type
36	1	1153	A
36	1	1159	A
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	1201	C
36	1	1209	G
36	1	1213	G
36	1	1216	C
36	1	1218	U
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	1235	U
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1253	U
36	1	1258	U
36	1	1259	A
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1266	G
36	1	1267	U
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1274	A

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Mol	Chain	Res	Type
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G
36	1	1287	A
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1314	C
36	1	1317	A
36	1	1323	G
36	1	1324	U
36	1	1330	A
36	1	1331	U
36	1	1336	U
36	1	1345	G
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	1354	G
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1367	G
36	1	1386	A
36	1	1392	G
36	1	1399	A
36	1	1400	G
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1433	A
36	1	1434	G
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1454	A
36	1	1455	U
36	1	1462	A

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Mol	Chain	Res	Type
36	1	1465	A
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1502	C
36	1	1508	C
36	1	1516	C
36	1	1527	C
36	1	1529	A
36	1	1531	C
36	1	1533	U
36	1	1536	G
36	1	1549	U
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1559	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1571	A
36	1	1572	U
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	1605	A
36	1	1620	U
36	1	1621	A
36	1	1629	U
36	1	1630	U
36	1	1633	C

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Mol	Chain	Res	Type
36	1	1639	C
36	1	1643	A
36	1	1654	A
36	1	1657	C
36	1	1677	G
36	1	1683	A
36	1	1688	U
36	1	1713	G
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1736	G
36	1	1750	A
36	1	1751	G
36	1	1760	A
36	1	1761	C
36	1	1762	C
36	1	1763	U
36	1	1764	U
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1769	G
36	1	1770	G
36	1	1780	G
36	1	1781	C
36	1	1783	U
36	1	1797	A
36	1	1809	A
36	1	1810	A
36	1	1814	A
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1825	G
36	1	1834	U
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1845	G

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Mol	Chain	Res	Type
36	1	1846	C
36	1	1847	A
36	1	1849	C
36	1	1850	A
36	1	1855	U
36	1	1866	C
36	1	1871	U
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1895	A
36	1	1897	G
36	1	1901	A
36	1	1906	G
36	1	1908	A
36	1	1951	C
36	1	1952	G
36	1	1953	G
36	1	1954	G
36	1	2094	C
36	1	2097	U
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2115	G
36	1	2116	G
36	1	2121	G
36	1	2122	G
36	1	2131	A
36	1	2134	G
36	1	2140	U
36	1	2144	A
36	1	2158	A
36	1	2169	G
36	1	2173	U
36	1	2184	U
36	1	2185	G
36	1	2187	G
36	1	2193	U
36	1	2205	U

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Mol	Chain	Res	Type
36	1	2208	A
36	1	2209	U
36	1	2210	G
36	1	2223	A
36	1	2228	A
36	1	2234	G
36	1	2239	G
36	1	2244	A
36	1	2245	C
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	2272	G
36	1	2273	G
36	1	2281	A
36	1	2282	U
36	1	2284	C
36	1	2299	A
36	1	2303	A
36	1	2304	C
36	1	2306	C
36	1	2307	G
36	1	2310	U
36	1	2313	A
36	1	2315	G
36	1	2317	A
36	1	2334	U
36	1	2336	U
36	1	2362	C
36	1	2366	C
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2388	U
36	1	2392	C
36	1	2393	G
36	1	2397	A

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Mol	Chain	Res	Type
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2405	C
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2435	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2509	U
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2524	A
36	1	2532	U
36	1	2533	G
36	1	2534	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2544	U
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	2582	C

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Mol	Chain	Res	Type
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2595	A
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2617	U
36	1	2618	G
36	1	2628	A
36	1	2637	A
36	1	2638	C
36	1	2652	U
36	1	2656	A
36	1	2672	G
36	1	2674	A
36	1	2677	G
36	1	2689	A
36	1	2691	A
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2714	G
36	1	2728	G
36	1	2729	U
36	1	2752	U
36	1	2753	G
36	1	2762	A
36	1	2771	U
36	1	2772	C
36	1	2773	C
36	1	2777	G
36	1	2778	G
36	1	2796	G
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2810	C
36	1	2817	A

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Mol	Chain	Res	Type
36	1	2818	U
36	1	2819	A
36	1	2822	U
36	1	2827	U
36	1	2829	U
36	1	2836	C
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2846	U
36	1	2847	A
36	1	2856	G
36	1	2860	U
36	1	2863	G
36	1	2871	G
36	1	2872	A
36	1	2886	U
36	1	2887	A
36	1	2889	C
36	1	2898	G
36	1	2899	C
36	1	2900	A
36	1	2911	A
36	1	2914	G
36	1	2923	U
36	1	2927	C
36	1	2932	U
36	1	2935	U
36	1	2936	A
36	1	2942	C
36	1	2945	G
36	1	2947	G
36	1	2955	U
36	1	2956	A
36	1	2971	A
36	1	2974	U
36	1	2977	G
36	1	2979	U
36	1	2983	C
36	1	2990	G
36	1	2992	U
36	1	2997	G

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Mol	Chain	Res	Type
36	1	3012	A
36	1	3030	G
36	1	3034	C
36	1	3040	A
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A
36	1	3087	A
36	1	3092	C
36	1	3104	U
36	1	3113	A
36	1	3119	U
36	1	3122	A
36	1	3130	A
36	1	3131	U
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3164	C
36	1	3165	A
36	1	3167	A
36	1	3168	A
36	1	3169	U
36	1	3170	A
36	1	3171	U
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3180	A
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U

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Mol	Chain	Res	Type
36	1	3198	U
36	1	3207	U
36	1	3210	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3228	C
36	1	3229	G
36	1	3235	C
36	1	3243	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3253	G
36	1	3259	U
36	1	3265	C
36	1	3266	G
36	1	3268	A
36	1	3269	U
36	1	3270	U
36	1	3273	A
36	1	3276	G
36	1	3280	U
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3288	G
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	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

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Mol	Chain	Res	Type
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3363	U
36	1	3369	G
36	1	3375	A
36	1	3378	C
36	1	3382	U
36	1	3383	G
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	11	A
37	3	13	A
37	3	14	U
37	3	22	A
37	3	23	A
37	3	42	A
37	3	54	U
37	3	59	U
37	3	60	G
37	3	64	A
37	3	65	G
37	3	74	C
37	3	75	G
37	3	76	A
37	3	91	G
37	3	102	A
37	3	112	G
38	4	2	A
38	4	9	A
38	4	26	U
38	4	34	U
38	4	35	C
38	4	48	A
38	4	52	A
38	4	58	G
38	4	59	A
38	4	62	C

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Mol	Chain	Res	Type
38	4	63	G
38	4	69	U
38	4	70	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	97	A
38	4	104	A
38	4	105	A
38	4	106	C
38	4	111	A
38	4	112	U
38	4	113	U
38	4	122	U
38	4	125	U
38	4	126	A
38	4	127	U
38	4	128	U
38	4	133	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	10	G
1	6	17	C
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	42	G
1	6	47	A
1	6	57	G

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Mol	Chain	Res	Type
1	6	60	U
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	103	A
1	6	104	A
1	6	114	C
1	6	115	G
1	6	127	G
1	6	132	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U
1	6	144	U
1	6	145	A
1	6	153	G
1	6	158	U
1	6	159	U
1	6	166	C
1	6	175	G
1	6	178	U
1	6	181	A
1	6	182	A
1	6	185	U
1	6	187	G
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	196	G
1	6	197	A
1	6	199	G

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Mol	Chain	Res	Type
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A
1	6	222	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U
1	6	233	C
1	6	234	G
1	6	235	G
1	6	240	U
1	6	241	U
1	6	249	U
1	6	250	C
1	6	260	U
1	6	261	U
1	6	265	A
1	6	270	C
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	287	G
1	6	299	A
1	6	304	U
1	6	308	C
1	6	313	U
1	6	314	C
1	6	316	A
1	6	319	U
1	6	320	U
1	6	321	C
1	6	322	G

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Mol	Chain	Res	Type
1	6	337	G
1	6	338	C
1	6	359	A
1	6	360	A
1	6	361	C
1	6	370	A
1	6	393	C
1	6	400	A
1	6	401	A
1	6	402	C
1	6	404	G
1	6	416	A
1	6	418	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	428	A
1	6	434	G
1	6	437	A
1	6	439	U
1	6	444	C
1	6	448	C
1	6	468	A
1	6	475	A
1	6	477	A
1	6	480	G
1	6	482	U
1	6	484	C
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	496	G
1	6	497	G
1	6	500	C
1	6	501	U
1	6	504	U
1	6	505	A

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Mol	Chain	Res	Type
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	524	U
1	6	527	A
1	6	536	C
1	6	539	G
1	6	540	G
1	6	541	A
1	6	542	A
1	6	543	C
1	6	544	A
1	6	548	G
1	6	557	G
1	6	558	U
1	6	559	C
1	6	564	G
1	6	565	C
1	6	566	C
1	6	574	G
1	6	578	U
1	6	579	A
1	6	580	A
1	6	582	U
1	6	594	A
1	6	595	G
1	6	609	U
1	6	610	G
1	6	611	U
1	6	617	U
1	6	619	A
1	6	620	A
1	6	622	A
1	6	623	A
1	6	624	G

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Mol	Chain	Res	Type
1	6	630	A
1	6	637	C
1	6	639	U
1	6	640	U
1	6	645	C
1	6	648	G
1	6	650	U
1	6	652	G
1	6	653	C
1	6	658	C
1	6	659	C
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
1	6	669	G
1	6	670	U
1	6	676	G
1	6	678	A
1	6	679	U
1	6	680	U
1	6	681	U
1	6	682	C
1	6	683	C
1	6	684	A
1	6	685	A
1	6	691	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	717	C
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	733	A
1	6	751	G

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Mol	Chain	Res	Type
1	6	753	A
1	6	754	A
1	6	755	A
1	6	756	A
1	6	762	A
1	6	765	G
1	6	766	U
1	6	774	A
1	6	775	G
1	6	777	C
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	787	G
1	6	789	A
1	6	792	U
1	6	793	A
1	6	794	U
1	6	806	A
1	6	811	A
1	6	812	A
1	6	815	G
1	6	816	G
1	6	821	U
1	6	822	U
1	6	823	G
1	6	825	U
1	6	826	U
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	842	C
1	6	862	A
1	6	863	A
1	6	864	U
1	6	865	A
1	6	873	U
1	6	881	A

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Mol	Chain	Res	Type
1	6	898	A
1	6	906	A
1	6	912	U
1	6	913	G
1	6	914	G
1	6	916	U
1	6	928	U
1	6	933	A
1	6	935	U
1	6	942	G
1	6	945	U
1	6	959	U
1	6	960	U
1	6	966	A
1	6	969	C
1	6	970	A
1	6	971	A
1	6	983	A
1	6	989	U
1	6	991	G
1	6	992	A
1	6	993	A
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1008	G
1	6	1021	C
1	6	1026	A
1	6	1028	C
1	6	1029	U
1	6	1039	A
1	6	1040	G
1	6	1052	U
1	6	1053	G
1	6	1057	U
1	6	1058	U
1	6	1059	U
1	6	1060	U
1	6	1074	G
1	6	1081	A
1	6	1082	C
1	6	1091	A

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Mol	Chain	Res	Type
1	6	1092	A
1	6	1093	A
1	6	1096	C
1	6	1097	U
1	6	1098	U
1	6	1100	G
1	6	1101	G
1	6	1104	U
1	6	1105	C
1	6	1109	G
1	6	1137	A
1	6	1138	A
1	6	1139	A
1	6	1151	A
1	6	1155	G
1	6	1158	C
1	6	1159	C
1	6	1160	A
1	6	1162	C
1	6	1164	G
1	6	1167	G
1	6	1185	U
1	6	1194	A
1	6	1196	A
1	6	1199	G
1	6	1200	G
1	6	1202	A
1	6	1203	A
1	6	1207	C
1	6	1208	A
1	6	1216	C
1	6	1217	A
1	6	1218	G
1	6	1220	C
1	6	1227	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1241	G
1	6	1242	A
1	6	1243	G
1	6	1244	A

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Mol	Chain	Res	Type
1	6	1245	G
1	6	1246	C
1	6	1254	U
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1259	U
1	6	1261	G
1	6	1275	A
1	6	1276	U
1	6	1284	C
1	6	1286	U
1	6	1288	G
1	6	1314	U
1	6	1315	U
1	6	1316	G
1	6	1318	G
1	6	1319	A
1	6	1321	A
1	6	1327	C
1	6	1338	C
1	6	1344	A
1	6	1345	A
1	6	1346	A
1	6	1347	U
1	6	1349	G
1	6	1354	G
1	6	1361	U
1	6	1362	U
1	6	1363	U
1	6	1364	G
1	6	1367	G
1	6	1371	A
1	6	1372	U
1	6	1373	C
1	6	1377	U
1	6	1383	G
1	6	1388	A
1	6	1390	U
1	6	1391	A
1	6	1396	U

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Mol	Chain	Res	Type
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1413	U
1	6	1415	U
1	6	1427	A
1	6	1428	G
1	6	1429	G
1	6	1433	G
1	6	1445	G
1	6	1446	A
1	6	1447	C
1	6	1448	G
1	6	1458	G
1	6	1459	C
1	6	1461	C
1	6	1471	A
1	6	1481	C
1	6	1482	C
1	6	1489	U
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1496	U
1	6	1506	G
1	6	1514	U
1	6	1516	A
1	6	1517	U
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1531	G
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1540	G
1	6	1548	G
1	6	1549	C
1	6	1554	U

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Mol	Chain	Res	Type
1	6	1557	U
1	6	1559	A
1	6	1571	C
1	6	1572	G
1	6	1573	A
1	6	1574	G
1	6	1575	G
1	6	1582	U
1	6	1584	G
1	6	1590	G
1	6	1601	G
1	6	1616	G
1	6	1621	U
1	6	1631	A
1	6	1634	C
1	6	1637	C
1	6	1638	G
1	6	1654	G
1	6	1656	U
1	6	1657	U
1	6	1658	G
1	6	1678	A
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	1731	A
1	6	1736	G
1	6	1755	A
1	6	1760	G
1	6	1762	A
1	6	1766	A
1	6	1767	G
1	6	1769	U
1	6	1770	U
1	6	1779	U

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Mol	Chain	Res	Type
1	6	1780	G
1	6	1782	A
1	6	1783	C
1	6	1789	G
1	6	1792	G
1	6	1793	G
1	6	1794	A
1	6	1795	U
1	6	1796	C
1	6	1799	U
1	6	1800	A
36	5	11	A
36	5	14	U
36	5	15	C
36	5	26	A
36	5	33	G
36	5	40	A
36	5	44	U
36	5	49	A
36	5	59	G
36	5	60	A
36	5	62	A
36	5	65	A
36	5	66	A
36	5	73	C
36	5	74	G
36	5	76	G
36	5	87	U
36	5	91	G
36	5	92	G
36	5	93	C
36	5	94	G
36	5	96	G
36	5	99	A
36	5	109	A
36	5	110	G
36	5	113	C
36	5	116	A
36	5	120	G
36	5	121	A
36	5	122	A
36	5	130	A

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Mol	Chain	Res	Type
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	142	C
36	5	151	A
36	5	152	U
36	5	156	G
36	5	157	A
36	5	161	G
36	5	165	A
36	5	166	C
36	5	169	U
36	5	170	G
36	5	171	G
36	5	172	G
36	5	173	G
36	5	174	C
36	5	180	C
36	5	182	U
36	5	183	G
36	5	184	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	210	U
36	5	211	A
36	5	218	G
36	5	219	A
36	5	221	A
36	5	236	G
36	5	237	G
36	5	239	G
36	5	240	U
36	5	243	G
36	5	244	G
36	5	246	U
36	5	247	C
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G

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Mol	Chain	Res	Type
36	5	252	U
36	5	253	A
36	5	254	A
36	5	258	G
36	5	259	C
36	5	265	A
36	5	269	G
36	5	274	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	315	C
36	5	322	U
36	5	323	A
36	5	329	U
36	5	334	A
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	370	U
36	5	372	A
36	5	376	G
36	5	397	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	419	G
36	5	421	G
36	5	422	A
36	5	436	A
36	5	438	A
36	5	439	C
36	5	440	A
36	5	442	G
36	5	492	U
36	5	507	U
36	5	520	U
36	5	521	A

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Mol	Chain	Res	Type
36	5	530	G
36	5	531	G
36	5	535	G
36	5	542	G
36	5	546	C
36	5	547	G
36	5	548	G
36	5	551	A
36	5	554	A
36	5	557	A
36	5	559	A
36	5	570	A
36	5	578	A
36	5	579	G
36	5	592	A
36	5	594	U
36	5	595	G
36	5	600	G
36	5	604	G
36	5	607	A
36	5	609	G
36	5	611	A
36	5	619	A
36	5	621	A
36	5	636	C
36	5	649	A
36	5	651	G
36	5	660	A
36	5	661	G
36	5	677	A
36	5	681	U
36	5	683	U
36	5	685	G
36	5	689	U
36	5	691	A
36	5	705	A
36	5	712	G
36	5	715	A
36	5	716	A
36	5	718	G
36	5	719	U
36	5	725	G

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Mol	Chain	Res	Type
36	5	750	G
36	5	765	C
36	5	766	U
36	5	767	U
36	5	768	C
36	5	769	G
36	5	776	U
36	5	777	U
36	5	781	G
36	5	785	G
36	5	786	A
36	5	806	A
36	5	817	A
36	5	830	A
36	5	859	G
36	5	861	C
36	5	869	G
36	5	874	U
36	5	876	A
36	5	879	U
36	5	896	A
36	5	897	U
36	5	907	G
36	5	908	G
36	5	910	G
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	931	C
36	5	937	G
36	5	938	C
36	5	944	C
36	5	953	G
36	5	959	C
36	5	960	U
36	5	964	G
36	5	979	U
36	5	990	U
36	5	993	G

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Mol	Chain	Res	Type
36	5	994	G
36	5	1001	G
36	5	1002	A
36	5	1003	A
36	5	1010	G
36	5	1014	U
36	5	1015	U
36	5	1016	C
36	5	1017	C
36	5	1018	G
36	5	1019	G
36	5	1021	G
36	5	1024	G
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	1041	U
36	5	1047	A
36	5	1049	C
36	5	1052	U
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G
36	5	1081	U
36	5	1082	U
36	5	1083	G
36	5	1085	A
36	5	1087	G
36	5	1093	A
36	5	1094	U
36	5	1095	U
36	5	1096	U
36	5	1097	G
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1117	G
36	5	1121	U

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Mol	Chain	Res	Type
36	5	1131	G
36	5	1153	A
36	5	1159	A
36	5	1164	G
36	5	1180	A
36	5	1181	U
36	5	1182	A
36	5	1190	A
36	5	1191	U
36	5	1192	C
36	5	1193	A
36	5	1201	C
36	5	1208	U
36	5	1209	G
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	1243	G
36	5	1244	A
36	5	1245	A
36	5	1246	G
36	5	1252	A
36	5	1254	C
36	5	1258	U
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1265	U
36	5	1266	G
36	5	1285	G
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1313	G
36	5	1314	C
36	5	1317	A
36	5	1318	A

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Mol	Chain	Res	Type
36	5	1321	G
36	5	1329	U
36	5	1330	A
36	5	1331	U
36	5	1348	U
36	5	1349	G
36	5	1351	U
36	5	1352	A
36	5	1353	U
36	5	1355	A
36	5	1356	U
36	5	1357	G
36	5	1379	G
36	5	1386	A
36	5	1399	A
36	5	1400	G
36	5	1418	A
36	5	1419	A
36	5	1421	G
36	5	1431	G
36	5	1433	A
36	5	1434	G
36	5	1437	C
36	5	1446	A
36	5	1450	G
36	5	1465	A
36	5	1476	G
36	5	1481	A
36	5	1482	A
36	5	1490	A
36	5	1508	C
36	5	1509	A
36	5	1519	G
36	5	1527	C
36	5	1528	G
36	5	1533	U
36	5	1536	G
36	5	1539	A
36	5	1541	G
36	5	1554	U
36	5	1555	U
36	5	1556	C

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Mol	Chain	Res	Type
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1565	G
36	5	1566	A
36	5	1567	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1573	G
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1581	C
36	5	1582	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1593	A
36	5	1620	U
36	5	1621	A
36	5	1629	U
36	5	1630	U
36	5	1639	C
36	5	1643	A
36	5	1644	C
36	5	1645	U
36	5	1657	C
36	5	1663	C
36	5	1683	A
36	5	1713	G
36	5	1716	U
36	5	1717	U
36	5	1724	U
36	5	1725	C
36	5	1750	A
36	5	1751	G
36	5	1756	C
36	5	1759	C

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Mol	Chain	Res	Type
36	5	1760	A
36	5	1762	C
36	5	1764	U
36	5	1765	U
36	5	1766	G
36	5	1770	G
36	5	1775	G
36	5	1778	G
36	5	1780	G
36	5	1793	C
36	5	1797	A
36	5	1810	A
36	5	1812	G
36	5	1813	A
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U
36	5	1820	U
36	5	1821	U
36	5	1841	A
36	5	1842	A
36	5	1846	C
36	5	1847	A
36	5	1849	C
36	5	1850	A
36	5	1858	A
36	5	1864	A
36	5	1866	C
36	5	1878	G
36	5	1879	A
36	5	1880	U
36	5	1886	A
36	5	1891	A
36	5	1901	A
36	5	1906	G
36	5	1914	G
36	5	1935	G
36	5	1947	G
36	5	1952	G
36	5	1953	G

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Mol	Chain	Res	Type
36	5	2100	A
36	5	2101	C
36	5	2102	U
36	5	2111	G
36	5	2112	U
36	5	2113	A
36	5	2121	G
36	5	2122	G
36	5	2131	A
36	5	2133	U
36	5	2138	A
36	5	2158	A
36	5	2169	G
36	5	2170	U
36	5	2192	C
36	5	2198	A
36	5	2205	U
36	5	2209	U
36	5	2210	G
36	5	2215	A
36	5	2222	A
36	5	2223	A
36	5	2228	A
36	5	2229	A
36	5	2234	G
36	5	2244	A
36	5	2246	G
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2257	C
36	5	2258	U
36	5	2269	U
36	5	2273	G
36	5	2278	C
36	5	2279	A
36	5	2280	A
36	5	2281	A
36	5	2282	U
36	5	2288	G
36	5	2303	A
36	5	2307	G

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Mol	Chain	Res	Type
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2319	U
36	5	2324	A
36	5	2331	C
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2352	A
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2385	G
36	5	2392	C
36	5	2393	G
36	5	2397	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	2418	G
36	5	2419	A
36	5	2435	G
36	5	2437	G
36	5	2439	A
36	5	2441	A
36	5	2443	A
36	5	2504	U
36	5	2505	U
36	5	2506	U
36	5	2507	C
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2513	U
36	5	2514	U
36	5	2515	A

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Mol	Chain	Res	Type
36	5	2522	G
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2530	G
36	5	2535	A
36	5	2536	A
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2543	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2562	A
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	2580	A
36	5	2585	G
36	5	2588	U
36	5	2589	G
36	5	2593	A
36	5	2594	C
36	5	2598	G
36	5	2599	U
36	5	2606	G
36	5	2607	G
36	5	2614	G
36	5	2636	A
36	5	2638	C
36	5	2643	A
36	5	2652	U
36	5	2656	A
36	5	2674	A

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Mol	Chain	Res	Type
36	5	2677	G
36	5	2681	U
36	5	2683	U
36	5	2689	A
36	5	2691	A
36	5	2694	A
36	5	2696	A
36	5	2707	C
36	5	2714	G
36	5	2720	G
36	5	2728	G
36	5	2729	U
36	5	2742	C
36	5	2752	U
36	5	2753	G
36	5	2754	G
36	5	2755	C
36	5	2762	A
36	5	2771	U
36	5	2772	C
36	5	2773	C
36	5	2777	G
36	5	2778	G
36	5	2779	A
36	5	2780	A
36	5	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2810	C
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2822	U
36	5	2829	U
36	5	2839	G
36	5	2840	C
36	5	2842	U
36	5	2843	U
36	5	2845	A
36	5	2849	C
36	5	2853	A

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Mol	Chain	Res	Type
36	5	2871	G
36	5	2872	A
36	5	2875	U
36	5	2880	U
36	5	2881	C
36	5	2887	A
36	5	2889	C
36	5	2899	C
36	5	2900	A
36	5	2902	A
36	5	2904	U
36	5	2921	U
36	5	2922	G
36	5	2923	U
36	5	2935	U
36	5	2936	A
36	5	2939	G
36	5	2942	C
36	5	2947	G
36	5	2971	A
36	5	2972	G
36	5	2979	U
36	5	2980	U
36	5	2983	C
36	5	2990	G
36	5	2992	U
36	5	2993	G
36	5	2996	U
36	5	2997	G
36	5	3012	A
36	5	3028	G
36	5	3030	G
36	5	3048	A
36	5	3056	U
36	5	3059	G
36	5	3078	U
36	5	3079	U
36	5	3086	A
36	5	3092	C
36	5	3094	A
36	5	3101	G
36	5	3102	G

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Mol	Chain	Res	Type
36	5	3119	U
36	5	3130	A
36	5	3131	U
36	5	3142	A
36	5	3143	C
36	5	3150	A
36	5	3153	U
36	5	3154	C
36	5	3155	U
36	5	3156	U
36	5	3157	U
36	5	3158	G
36	5	3164	C
36	5	3165	A
36	5	3168	A
36	5	3171	U
36	5	3172	A
36	5	3173	G
36	5	3174	A
36	5	3176	G
36	5	3179	U
36	5	3180	A
36	5	3181	C
36	5	3187	A
36	5	3195	U
36	5	3196	U
36	5	3198	U
36	5	3207	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3227	A
36	5	3228	C
36	5	3229	G
36	5	3238	G
36	5	3239	G
36	5	3244	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3259	U
36	5	3263	G

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Mol	Chain	Res	Type
36	5	3269	U
36	5	3270	U
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3279	A
36	5	3280	U
36	5	3281	U
36	5	3282	U
36	5	3284	G
36	5	3285	C
36	5	3286	G
36	5	3288	G
36	5	3289	G
36	5	3290	G
36	5	3294	A
36	5	3304	U
36	5	3307	A
36	5	3313	U
36	5	3316	A
36	5	3319	U
36	5	3332	U
36	5	3333	G
36	5	3335	A
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3351	U
36	5	3352	U
36	5	3354	U
36	5	3356	G
36	5	3369	G
36	5	3378	C
36	5	3382	U
36	5	3389	U
36	5	3390	G
36	5	3396	U
37	7	7	G
37	7	22	A
37	7	27	A
37	7	29	C
37	7	33	U

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Mol	Chain	Res	Type
37	7	38	U
37	7	41	G
37	7	54	U
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	76	A
37	7	92	A
37	7	93	C
37	7	99	G
37	7	101	G
37	7	102	A
37	7	103	A
37	7	112	G
38	8	9	A
38	8	18	U
38	8	21	C
38	8	34	U
38	8	35	C
38	8	48	A
38	8	49	G
38	8	51	G
38	8	52	A
38	8	53	A
38	8	59	A
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	85	G
38	8	86	U
38	8	87	G
38	8	95	G
38	8	96	A
38	8	97	A
38	8	104	A
38	8	105	A

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Mol	Chain	Res	Type
38	8	106	C
38	8	108	C
38	8	111	A
38	8	113	U
38	8	125	U
38	8	126	A
38	8	152	G
38	8	155	A
38	8	156	U
38	8	157	U
38	8	158	U

All (279) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	45	U
1	2	73	U
1	2	103	A
1	2	114	C
1	2	126	A
1	2	130	C
1	2	131	C
1	2	139	C
1	2	144	U
1	2	158	U
1	2	192	U
1	2	217	A
1	2	232	U
1	2	240	U
1	2	280	U
1	2	400	A
1	2	417	A
1	2	499	U
1	2	501	U
1	2	503	G
1	2	510	G
1	2	512	A
1	2	555	A
1	2	558	U
1	2	704	C
1	2	720	G

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Mol	Chain	Res	Type
1	2	721	U
1	2	755	A
1	2	794	U
1	2	811	A
1	2	815	G
1	2	823	G
1	2	829	A
1	2	1058	U
1	2	1150	G
1	2	1157	A
1	2	1196	A
1	2	1226	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
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1761	U
36	1	65	A
36	1	210	U
36	1	217	U
36	1	223	U
36	1	239	G
36	1	264	G
36	1	282	G
36	1	369	A
36	1	397	A
36	1	406	G
36	1	547	G
36	1	556	U
36	1	588	G
36	1	594	U
36	1	620	U
36	1	637	C
36	1	647	A
36	1	719	U
36	1	726	G

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Mol	Chain	Res	Type
36	1	763	G
36	1	896	A
36	1	916	G
36	1	937	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	1196	C
36	1	1273	A
36	1	1307	G
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1419	A
36	1	1484	U
36	1	1554	U
36	1	1556	C
36	1	1562	C
36	1	1568	U
36	1	1580	A
36	1	1582	C
36	1	1589	A
36	1	1643	A
36	1	1716	U
36	1	1751	G
36	1	1815	U
36	1	1816	A
36	1	1820	U
36	1	1841	A
36	1	1842	A
36	1	1849	C
36	1	2101	C
36	1	2112	U
36	1	2116	G
36	1	2209	U
36	1	2227	C
36	1	2249	G
36	1	2281	A

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Mol	Chain	Res	Type
36	1	2372	A
36	1	2374	C
36	1	2418	G
36	1	2523	A
36	1	2537	U
36	1	2538	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	2728	G
36	1	2772	C
36	1	2801	A
36	1	2817	A
36	1	2818	U
36	1	2842	U
36	1	2859	U
36	1	3056	U
36	1	3078	U
36	1	3121	U
36	1	3169	U
36	1	3195	U
36	1	3217	C
36	1	3228	C
36	1	3269	U
36	1	3275	U
36	1	3278	C
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3355	U
37	3	13	A
38	4	82	U
38	4	85	G
38	4	111	A
38	4	125	U
38	4	126	A
38	4	157	U
1	6	25	C
1	6	66	U
1	6	103	A

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Mol	Chain	Res	Type
1	6	114	C
1	6	158	U
1	6	187	G
1	6	192	U
1	6	217	A
1	6	240	U
1	6	272	U
1	6	277	U
1	6	313	U
1	6	400	A
1	6	417	A
1	6	512	A
1	6	542	A
1	6	557	G
1	6	558	U
1	6	651	G
1	6	664	U
1	6	667	U
1	6	717	C
1	6	755	A
1	6	829	A
1	6	834	G
1	6	1051	G
1	6	1058	U
1	6	1097	U
1	6	1098	U
1	6	1137	A
1	6	1207	C
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1346	A
1	6	1398	U
1	6	1481	C
1	6	1489	U
1	6	1535	U
1	6	1572	G
1	6	1573	A
1	6	1574	G
1	6	1600	A
1	6	1615	C
1	6	1620	C

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Mol	Chain	Res	Type
1	6	1657	U
1	6	1698	G
1	6	1700	C
1	6	1754	A
36	5	122	A
36	5	151	A
36	5	183	G
36	5	210	U
36	5	217	U
36	5	221	A
36	5	238	A
36	5	264	G
36	5	269	G
36	5	374	A
36	5	397	A
36	5	647	A
36	5	765	C
36	5	816	A
36	5	873	C
36	5	896	A
36	5	916	G
36	5	937	G
36	5	993	G
36	5	1027	A
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1181	U
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1307	G
36	5	1317	A
36	5	1329	U
36	5	1331	U
36	5	1352	A
36	5	1355	A
36	5	1370	G
36	5	1392	G
36	5	1481	A
36	5	1514	G
36	5	1554	U

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Mol	Chain	Res	Type
36	5	1560	G
36	5	1580	A
36	5	1716	U
36	5	1750	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1841	A
36	5	1846	C
36	5	2101	C
36	5	2112	U
36	5	2204	C
36	5	2209	U
36	5	2255	A
36	5	2257	C
36	5	2372	A
36	5	2373	A
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2572	C
36	5	2585	G
36	5	2593	A
36	5	2682	C
36	5	2728	G
36	5	2772	C
36	5	2818	U
36	5	2887	A
36	5	2971	A
36	5	3078	U
36	5	3154	C
36	5	3167	A
36	5	3195	U
36	5	3218	A
36	5	3228	C
36	5	3269	U
36	5	3275	U
36	5	3289	G
36	5	3340	G
36	5	3341	U
37	7	76	A
38	8	111	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 2558 ligands modelled in this entry, 1426 are monoatomic - leaving 1132 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	5	4035	-	0,6,6	-	-	-		
86	OHX	1	3899	-	0,6,6	-	-	-		
86	OHX	1	4137	-	0,6,6	-	-	-		
86	OHX	5	4186	-	0,6,6	-	-	-		
86	OHX	1	4104	-	0,6,6	-	-	-		
86	OHX	1	4030	-	0,6,6	-	-	-		
86	OHX	8	229	-	0,6,6	-	-	-		
86	OHX	6	2174	-	0,6,6	-	-	-		
86	OHX	2	2026	-	0,6,6	-	-	-		
86	OHX	1	4043	-	0,6,6	-	-	-		
86	OHX	5	4198	-	0,6,6	-	-	-		
86	OHX	5	4141	-	0,6,6	-	-	-		
86	OHX	1	3955	-	0,6,6	-	-	-		
86	OHX	1	3892	-	0,6,6	-	-	-		
86	OHX	19	600	-	0,6,6	-	-	-		
86	OHX	1	4038	-	0,6,6	-	-	-		
86	OHX	5	3961	-	0,6,6	-	-	-		
86	OHX	2	2084	-	0,6,6	-	-	-		
86	OHX	5	4175	-	0,6,6	-	-	-		
86	OHX	2	2067	-	0,6,6	-	-	-		
86	OHX	2	2061	-	0,6,6	-	-	-		
86	OHX	1	3932	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
86	OHX	5	3920	-	0,6,6	-	-	-		
86	OHX	1	4153	-	0,6,6	-	-	-		
86	OHX	5	4040	-	0,6,6	-	-	-		
86	OHX	5	4232	-	0,6,6	-	-	-		
86	OHX	5	4162	-	0,6,6	-	-	-		
86	OHX	5	4089	-	0,6,6	-	-	-		
86	OHX	2	2056	-	0,6,6	-	-	-		
86	OHX	5	4122	-	0,6,6	-	-	-		
86	OHX	5	3963	-	0,6,6	-	-	-		
86	OHX	1	4037	-	0,6,6	-	-	-		
86	OHX	5	3931	-	0,6,6	-	-	-		
86	OHX	5	4075	-	0,6,6	-	-	-		
86	OHX	1	3896	-	0,6,6	-	-	-		
86	OHX	2	2133	-	0,6,6	-	-	-		
86	OHX	1	4202	-	0,6,6	-	-	-		
86	OHX	5	3912	-	0,6,6	-	-	-		
86	OHX	1	4045	-	0,6,6	-	-	-		
86	OHX	1	3970	-	0,6,6	-	-	-		
86	OHX	1	4180	-	0,6,6	-	-	-		
86	OHX	2	2117	-	0,6,6	-	-	-		
86	OHX	6	2118	-	0,6,6	-	-	-		
86	OHX	1	4101	-	0,6,6	-	-	-		
86	OHX	5	3910	-	0,6,6	-	-	-		
86	OHX	1	3869	-	0,6,6	-	-	-		
86	OHX	1	4157	-	0,6,6	-	-	-		
86	OHX	2	2130	-	0,6,6	-	-	-		
86	OHX	6	2046	-	0,6,6	-	-	-		
86	OHX	6	2095	-	0,6,6	-	-	-		
86	OHX	1	4203	-	0,6,6	-	-	-		
86	OHX	5	4072	-	0,6,6	-	-	-		
86	OHX	7	225	-	0,6,6	-	-	-		
86	OHX	5	4087	-	0,6,6	-	-	-		
86	OHX	5	4117	-	0,6,6	-	-	-		
86	OHX	5	4225	-	0,6,6	-	-	-		
86	OHX	1	4050	-	0,6,6	-	-	-		
86	OHX	6	2178	-	0,6,6	-	-	-		
86	OHX	1	4081	-	0,6,6	-	-	-		
86	OHX	5	4050	-	0,6,6	-	-	-		
86	OHX	5	3921	-	0,6,6	-	-	-		
86	OHX	5	4213	-	0,6,6	-	-	-		
86	OHX	6	2200	-	0,6,6	-	-	-		
86	OHX	1	3979	-	0,6,6	-	-	-		
86	OHX	1	3875	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	d9	102	-	0,6,6	-	-	-		
86	OHX	1	3888	-	0,6,6	-	-	-		
86	OHX	1	3972	-	0,6,6	-	-	-		
86	OHX	1	4035	-	0,6,6	-	-	-		
86	OHX	2	2127	-	0,6,6	-	-	-		
86	OHX	2	2177	-	0,6,6	-	-	-		
86	OHX	1	4036	-	0,6,6	-	-	-		
86	OHX	1	4039	-	0,6,6	-	-	-		
86	OHX	1	4007	-	0,6,6	-	-	-		
86	OHX	1	4061	-	0,6,6	-	-	-		
86	OHX	2	2154	-	0,6,6	-	-	-		
86	OHX	1	4140	-	0,6,6	-	-	-		
86	OHX	5	4231	-	0,6,6	-	-	-		
86	OHX	m6	203	-	0,6,6	-	-	-		
86	OHX	5	4012	-	0,6,6	-	-	-		
86	OHX	5	4017	-	0,6,6	-	-	-		
86	OHX	2	2106	-	0,6,6	-	-	-		
86	OHX	1	3978	-	0,6,6	-	-	-		
86	OHX	1	3940	-	0,6,6	-	-	-		
86	OHX	5	4188	-	0,6,6	-	-	-		
86	OHX	5	4245	-	0,6,6	-	-	-		
86	OHX	2	2119	-	0,6,6	-	-	-		
86	OHX	1	3879	-	0,6,6	-	-	-		
86	OHX	1	4156	-	0,6,6	-	-	-		
86	OHX	1	3969	-	0,6,6	-	-	-		
86	OHX	5	4170	-	0,6,6	-	-	-		
86	OHX	2	2064	-	0,6,6	-	-	-		
86	OHX	5	4064	-	0,6,6	-	-	-		
86	OHX	6	2188	-	0,6,6	-	-	-		
86	OHX	6	2198	-	0,6,6	-	-	-		
86	OHX	6	2104	-	0,6,6	-	-	-		
86	OHX	L4	403	-	0,6,6	-	-	-		
86	OHX	5	4169	-	0,6,6	-	-	-		
86	OHX	6	2094	-	0,6,6	-	-	-		
86	OHX	5	3985	-	0,6,6	-	-	-		
86	OHX	5	4109	-	0,6,6	-	-	-		
86	OHX	6	2090	-	0,6,6	-	-	-		
86	OHX	2	2167	-	0,6,6	-	-	-		
86	OHX	M7	206	-	0,6,6	-	-	-		
86	OHX	5	3991	-	0,6,6	-	-	-		
86	OHX	2	2111	-	0,6,6	-	-	-		
86	OHX	5	4120	-	0,6,6	-	-	-		
86	OHX	3	219	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4097	-	0,6,6	-	-	-		
86	OHX	2	2038	-	0,6,6	-	-	-		
86	OHX	M0	303	-	0,6,6	-	-	-		
86	OHX	1	3881	-	0,6,6	-	-	-		
86	OHX	2	2151	-	0,6,6	-	-	-		
86	OHX	5	4026	-	0,6,6	-	-	-		
86	OHX	8	219	-	0,6,6	-	-	-		
86	OHX	6	2180	-	0,6,6	-	-	-		
86	OHX	C8	201	-	0,6,6	-	-	-		
86	OHX	1	4075	-	0,6,6	-	-	-		
86	OHX	s4	301	-	0,6,6	-	-	-		
86	OHX	1	4021	-	0,6,6	-	-	-		
86	OHX	1	4058	-	0,6,6	-	-	-		
86	OHX	5	4049	-	0,6,6	-	-	-		
86	OHX	5	4129	-	0,6,6	-	-	-		
86	OHX	6	2061	-	0,6,6	-	-	-		
86	OHX	5	3917	-	0,6,6	-	-	-		
86	OHX	1	4086	-	0,6,6	-	-	-		
86	OHX	1	3952	-	0,6,6	-	-	-		
86	OHX	1	3971	-	0,6,6	-	-	-		
86	OHX	1	3982	-	0,6,6	-	-	-		
86	OHX	1	4107	-	0,6,6	-	-	-		
86	OHX	5	3970	-	0,6,6	-	-	-		
86	OHX	m5	305	-	0,6,6	-	-	-		
86	OHX	1	3993	-	0,6,6	-	-	-		
86	OHX	1	3998	-	0,6,6	-	-	-		
86	OHX	1	3919	-	0,6,6	-	-	-		
86	OHX	1	3865	-	0,6,6	-	-	-		
86	OHX	1	4029	-	0,6,6	-	-	-		
86	OHX	5	4233	86	0,6,6	-	-	-		
86	OHX	SR	401	-	0,6,6	-	-	-		
86	OHX	1	4149	-	0,6,6	-	-	-		
86	OHX	6	2115	-	0,6,6	-	-	-		
86	OHX	5	4048	-	0,6,6	-	-	-		
86	OHX	1	4001	-	0,6,6	-	-	-		
86	OHX	1	3895	-	0,6,6	-	-	-		
86	OHX	1	3939	-	0,6,6	-	-	-		
86	OHX	1	4154	-	0,6,6	-	-	-		
86	OHX	8	221	-	0,6,6	-	-	-		
86	OHX	o2	201	-	0,6,6	-	-	-		
86	OHX	2	2153	-	0,6,6	-	-	-		
86	OHX	1	3964	-	0,6,6	-	-	-		
86	OHX	1	4102	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	3	222	-	0,6,6	-	-	-		
86	OHX	5	4187	-	0,6,6	-	-	-		
86	OHX	4	224	-	0,6,6	-	-	-		
86	OHX	1	4196	-	0,6,6	-	-	-		
86	OHX	6	2103	-	0,6,6	-	-	-		
86	OHX	s8	303	-	0,6,6	-	-	-		
86	OHX	5	4085	-	0,6,6	-	-	-		
86	OHX	1	4066	-	0,6,6	-	-	-		
86	OHX	1	3980	-	0,6,6	-	-	-		
86	OHX	4	237	-	0,6,6	-	-	-		
86	OHX	5	3939	-	0,6,6	-	-	-		
86	OHX	5	4046	-	0,6,6	-	-	-		
86	OHX	6	2105	-	0,6,6	-	-	-		
86	OHX	5	3978	-	0,6,6	-	-	-		
86	OHX	2	2166	-	0,6,6	-	-	-		
86	OHX	1	3933	-	0,6,6	-	-	-		
86	OHX	5	4016	-	0,6,6	-	-	-		
86	OHX	1	4141	-	0,6,6	-	-	-		
86	OHX	5	4024	-	0,6,6	-	-	-		
86	OHX	5	4018	-	0,6,6	-	-	-		
86	OHX	2	2144	-	0,6,6	-	-	-		
86	OHX	6	2106	-	0,6,6	-	-	-		
86	OHX	5	4044	-	0,6,6	-	-	-		
86	OHX	6	2131	-	0,6,6	-	-	-		
86	OHX	6	2119	-	0,6,6	-	-	-		
86	OHX	1	3945	-	0,6,6	-	-	-		
86	OHX	6	2062	-	0,6,6	-	-	-		
86	OHX	2	2160	-	0,6,6	-	-	-		
86	OHX	6	2186	-	0,6,6	-	-	-		
86	OHX	5	4166	-	0,6,6	-	-	-		
86	OHX	2	2175	-	0,6,6	-	-	-		
86	OHX	6	2064	-	0,6,6	-	-	-		
86	OHX	6	2203	-	0,6,6	-	-	-		
86	OHX	5	4094	-	0,6,6	-	-	-		
86	OHX	1	3877	-	0,6,6	-	-	-		
86	OHX	5	4036	-	0,6,6	-	-	-		
86	OHX	2	2081	-	0,6,6	-	-	-		
86	OHX	6	2056	-	0,6,6	-	-	-		
86	OHX	6	2170	-	0,6,6	-	-	-		
86	OHX	2	2155	-	0,6,6	-	-	-		
86	OHX	4	226	-	0,6,6	-	-	-		
86	OHX	5	4124	-	0,6,6	-	-	-		
86	OHX	1	4002	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	q2	502	-	0,6,6	-	-	-		
86	OHX	2	2116	-	0,6,6	-	-	-		
86	OHX	2	2126	-	0,6,6	-	-	-		
86	OHX	1	3916	-	0,6,6	-	-	-		
86	OHX	6	2111	-	0,6,6	-	-	-		
86	OHX	2	2075	-	0,6,6	-	-	-		
86	OHX	1	4099	-	0,6,6	-	-	-		
86	OHX	2	2135	-	0,6,6	-	-	-		
86	OHX	1	3977	-	0,6,6	-	-	-		
86	OHX	5	4179	-	0,6,6	-	-	-		
86	OHX	l5	305	-	0,6,6	-	-	-		
86	OHX	5	4224	-	0,6,6	-	-	-		
86	OHX	1	4082	-	0,6,6	-	-	-		
86	OHX	5	3990	-	0,6,6	-	-	-		
86	OHX	l5	304	-	0,6,6	-	-	-		
86	OHX	1	4169	-	0,6,6	-	-	-		
86	OHX	2	2041	-	0,6,6	-	-	-		
86	OHX	5	4093	-	0,6,6	-	-	-		
86	OHX	5	4114	-	0,6,6	-	-	-		
86	OHX	5	4034	-	0,6,6	-	-	-		
86	OHX	1	4023	-	0,6,6	-	-	-		
86	OHX	6	2177	-	0,6,6	-	-	-		
86	OHX	M5	303	-	0,6,6	-	-	-		
86	OHX	1	3924	-	0,6,6	-	-	-		
86	OHX	6	2134	-	0,6,6	-	-	-		
86	OHX	5	4116	-	0,6,6	-	-	-		
86	OHX	1	3921	-	0,6,6	-	-	-		
86	OHX	1	3935	-	0,6,6	-	-	-		
86	OHX	5	3924	-	0,6,6	-	-	-		
86	OHX	6	2120	-	0,6,6	-	-	-		
86	OHX	5	4142	-	0,6,6	-	-	-		
86	OHX	2	2162	-	0,6,6	-	-	-		
86	OHX	5	4157	-	0,6,6	-	-	-		
86	OHX	5	4196	-	0,6,6	-	-	-		
86	OHX	1	3947	-	0,6,6	-	-	-		
86	OHX	5	4209	-	0,6,6	-	-	-		
86	OHX	5	3947	-	0,6,6	-	-	-		
86	OHX	5	3979	-	0,6,6	-	-	-		
86	OHX	5	4069	-	0,6,6	-	-	-		
86	OHX	o7	502	-	0,6,6	-	-	-		
86	OHX	5	4029	-	0,6,6	-	-	-		
86	OHX	5	4135	-	0,6,6	-	-	-		
86	OHX	1	4189	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4109	-	0,6,6	-	-	-		
86	OHX	1	4017	-	0,6,6	-	-	-		
86	OHX	6	2169	-	0,6,6	-	-	-		
86	OHX	6	2107	-	0,6,6	-	-	-		
86	OHX	5	4148	-	0,6,6	-	-	-		
86	OHX	1	4040	-	0,6,6	-	-	-		
86	OHX	6	2087	-	0,6,6	-	-	-		
86	OHX	1	4026	-	0,6,6	-	-	-		
86	OHX	6	2114	-	0,6,6	-	-	-		
86	OHX	14	403	-	0,6,6	-	-	-		
86	OHX	8	218	-	0,6,6	-	-	-		
86	OHX	1	4000	-	0,6,6	-	-	-		
86	OHX	1	4174	-	0,6,6	-	-	-		
86	OHX	2	2047	-	0,6,6	-	-	-		
86	OHX	1	3949	-	0,6,6	-	-	-		
86	OHX	1	3902	-	0,6,6	-	-	-		
86	OHX	1	3910	-	0,6,6	-	-	-		
86	OHX	5	4132	-	0,6,6	-	-	-		
86	OHX	5	4164	-	0,6,6	-	-	-		
86	OHX	13	403	-	0,6,6	-	-	-		
86	OHX	6	2149	-	0,6,6	-	-	-		
86	OHX	1	4126	-	0,6,6	-	-	-		
86	OHX	1	3959	-	0,6,6	-	-	-		
86	OHX	2	2157	-	0,6,6	-	-	-		
86	OHX	5	4063	-	0,6,6	-	-	-		
86	OHX	6	2201	-	0,6,6	-	-	-		
86	OHX	5	3953	-	0,6,6	-	-	-		
86	OHX	6	2047	-	0,6,6	-	-	-		
86	OHX	6	2092	-	0,6,6	-	-	-		
86	OHX	7	219	-	0,6,6	-	-	-		
86	OHX	1	4028	-	0,6,6	-	-	-		
86	OHX	1	4103	-	0,6,6	-	-	-		
86	OHX	1	3887	-	0,6,6	-	-	-		
86	OHX	2	2057	-	0,6,6	-	-	-		
86	OHX	4	223	-	0,6,6	-	-	-		
86	OHX	2	2040	-	0,6,6	-	-	-		
86	OHX	6	2079	-	0,6,6	-	-	-		
86	OHX	6	2175	-	0,6,6	-	-	-		
86	OHX	5	3922	-	0,6,6	-	-	-		
86	OHX	6	2112	-	0,6,6	-	-	-		
86	OHX	6	2100	-	0,6,6	-	-	-		
86	OHX	1	4178	-	0,6,6	-	-	-		
86	OHX	2	2108	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2193	-	0,6,6	-	-	-		
86	OHX	5	4178	-	0,6,6	-	-	-		
86	OHX	8	226	-	0,6,6	-	-	-		
86	OHX	6	2073	-	0,6,6	-	-	-		
86	OHX	1	3889	-	0,6,6	-	-	-		
86	OHX	6	2052	-	0,6,6	-	-	-		
86	OHX	6	2058	-	0,6,6	-	-	-		
86	OHX	1	3942	-	0,6,6	-	-	-		
86	OHX	1	4072	-	0,6,6	-	-	-		
86	OHX	1	4024	-	0,6,6	-	-	-		
86	OHX	1	4186	-	0,6,6	-	-	-		
86	OHX	7	215	-	0,6,6	-	-	-		
86	OHX	6	2128	-	0,6,6	-	-	-		
86	OHX	5	4042	-	0,6,6	-	-	-		
86	OHX	5	4106	-	0,6,6	-	-	-		
86	OHX	1	4085	-	0,6,6	-	-	-		
86	OHX	2	2132	-	0,6,6	-	-	-		
86	OHX	6	2075	-	0,6,6	-	-	-		
86	OHX	6	2158	-	0,6,6	-	-	-		
86	OHX	1	4211	-	0,6,6	-	-	-		
86	OHX	6	2184	-	0,6,6	-	-	-		
86	OHX	6	2117	-	0,6,6	-	-	-		
86	OHX	5	3926	-	0,6,6	-	-	-		
86	OHX	5	3966	-	0,6,6	-	-	-		
86	OHX	5	4103	-	0,6,6	-	-	-		
86	OHX	6	2191	-	0,6,6	-	-	-		
86	OHX	5	4228	-	0,6,6	-	-	-		
86	OHX	1	3961	-	0,6,6	-	-	-		
86	OHX	1	4185	-	0,6,6	-	-	-		
86	OHX	6	2144	-	0,6,6	-	-	-		
86	OHX	sR	401	-	0,6,6	-	-	-		
86	OHX	5	4240	-	0,6,6	-	-	-		
86	OHX	1	4175	-	0,6,6	-	-	-		
86	OHX	5	4210	-	0,6,6	-	-	-		
86	OHX	5	4236	-	0,6,6	-	-	-		
86	OHX	1	3938	-	0,6,6	-	-	-		
86	OHX	2	2091	-	0,6,6	-	-	-		
86	OHX	5	4199	-	0,6,6	-	-	-		
86	OHX	2	2150	-	0,6,6	-	-	-		
86	OHX	1	3920	-	0,6,6	-	-	-		
86	OHX	1	3898	-	0,6,6	-	-	-		
86	OHX	5	4104	-	0,6,6	-	-	-		
86	OHX	1	4090	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4019	-	0,6,6	-	-	-		
86	OHX	1	3922	-	0,6,6	-	-	-		
86	OHX	5	4062	-	0,6,6	-	-	-		
86	OHX	1	3967	-	0,6,6	-	-	-		
86	OHX	2	2114	-	0,6,6	-	-	-		
86	OHX	1	3990	-	0,6,6	-	-	-		
86	OHX	1	3912	-	0,6,6	-	-	-		
86	OHX	2	2101	-	0,6,6	-	-	-		
86	OHX	1	4078	-	0,6,6	-	-	-		
86	OHX	6	2136	-	0,6,6	-	-	-		
86	OHX	5	4176	-	0,6,6	-	-	-		
86	OHX	5	4171	-	0,6,6	-	-	-		
86	OHX	1	4200	-	0,6,6	-	-	-		
86	OHX	6	2051	-	0,6,6	-	-	-		
86	OHX	5	4125	-	0,6,6	-	-	-		
86	OHX	5	4032	-	0,6,6	-	-	-		
86	OHX	5	4217	-	0,6,6	-	-	-		
86	OHX	5	3909	-	0,6,6	-	-	-		
86	OHX	6	2143	-	0,6,6	-	-	-		
86	OHX	5	3916	-	0,6,6	-	-	-		
86	OHX	1	3874	-	0,6,6	-	-	-		
86	OHX	6	2113	-	0,6,6	-	-	-		
86	OHX	5	4248	-	0,6,6	-	-	-		
86	OHX	5	4194	-	0,6,6	-	-	-		
86	OHX	6	2190	-	0,6,6	-	-	-		
86	OHX	5	4136	-	0,6,6	-	-	-		
86	OHX	2	2027	-	0,6,6	-	-	-		
86	OHX	1	3996	-	0,6,6	-	-	-		
86	OHX	5	4237	-	0,6,6	-	-	-		
86	OHX	1	3962	-	0,6,6	-	-	-		
86	OHX	2	2129	-	0,6,6	-	-	-		
86	OHX	1	4205	-	0,6,6	-	-	-		
86	OHX	5	4083	-	0,6,6	-	-	-		
86	OHX	1	4204	-	0,6,6	-	-	-		
86	OHX	5	4041	-	0,6,6	-	-	-		
86	OHX	1	4209	-	0,6,6	-	-	-		
86	OHX	5	3981	-	0,6,6	-	-	-		
86	OHX	2	2043	-	0,6,6	-	-	-		
86	OHX	5	4084	-	0,6,6	-	-	-		
86	OHX	1	4191	-	0,6,6	-	-	-		
86	OHX	1	4046	-	0,6,6	-	-	-		
86	OHX	1	4160	-	0,6,6	-	-	-		
86	OHX	6	2129	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3914	-	0,6,6	-	-	-		
86	OHX	1	4089	-	0,6,6	-	-	-		
86	OHX	5	3982	-	0,6,6	-	-	-		
86	OHX	8	225	-	0,6,6	-	-	-		
86	OHX	2	2118	-	0,6,6	-	-	-		
86	OHX	2	2156	-	0,6,6	-	-	-		
86	OHX	2	2090	-	0,6,6	-	-	-		
86	OHX	1	3893	-	0,6,6	-	-	-		
86	OHX	2	2063	-	0,6,6	-	-	-		
86	OHX	3	216	-	0,6,6	-	-	-		
86	OHX	1	3985	-	0,6,6	-	-	-		
86	OHX	6	2048	-	0,6,6	-	-	-		
86	OHX	5	3999	-	0,6,6	-	-	-		
86	OHX	5	4067	-	0,6,6	-	-	-		
86	OHX	5	4100	-	0,6,6	-	-	-		
86	OHX	5	4204	-	0,6,6	-	-	-		
86	OHX	2	2053	-	0,6,6	-	-	-		
86	OHX	2	2089	-	0,6,6	-	-	-		
86	OHX	O7	104	-	0,6,6	-	-	-		
86	OHX	1	4120	-	0,6,6	-	-	-		
86	OHX	1	4097	-	0,6,6	-	-	-		
86	OHX	5	3940	-	0,6,6	-	-	-		
86	OHX	1	4147	-	0,6,6	-	-	-		
86	OHX	3	221	-	0,6,6	-	-	-		
86	OHX	5	4147	-	0,6,6	-	-	-		
86	OHX	1	4130	-	0,6,6	-	-	-		
86	OHX	5	3954	-	0,6,6	-	-	-		
86	OHX	1	3911	-	0,6,6	-	-	-		
86	OHX	1	4161	-	0,6,6	-	-	-		
86	OHX	5	4014	-	0,6,6	-	-	-		
86	OHX	1	4049	-	0,6,6	-	-	-		
86	OHX	2	2115	-	0,6,6	-	-	-		
86	OHX	1	3973	-	0,6,6	-	-	-		
86	OHX	2	2159	-	0,6,6	-	-	-		
86	OHX	2	2172	-	0,6,6	-	-	-		
86	OHX	D3	202	-	0,6,6	-	-	-		
86	OHX	1	3863	-	0,6,6	-	-	-		
86	OHX	1	3917	-	0,6,6	-	-	-		
86	OHX	1	4167	-	0,6,6	-	-	-		
86	OHX	1	3866	-	0,6,6	-	-	-		
86	OHX	6	2072	-	0,6,6	-	-	-		
86	OHX	6	2122	-	0,6,6	-	-	-		
86	OHX	1	4190	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4230	-	0,6,6	-	-	-		
86	OHX	4	232	-	0,6,6	-	-	-		
86	OHX	7	223	-	0,6,6	-	-	-		
86	OHX	5	4249	-	0,6,6	-	-	-		
86	OHX	1	3989	-	0,6,6	-	-	-		
86	OHX	6	2097	-	0,6,6	-	-	-		
86	OHX	1	4112	-	0,6,6	-	-	-		
86	OHX	5	4177	-	0,6,6	-	-	-		
86	OHX	4	238	-	0,6,6	-	-	-		
86	OHX	5	4201	-	0,6,6	-	-	-		
86	OHX	8	224	-	0,6,6	-	-	-		
86	OHX	5	3929	-	0,6,6	-	-	-		
86	OHX	1	4048	-	0,6,6	-	-	-		
86	OHX	6	2066	-	0,6,6	-	-	-		
86	OHX	5	4165	-	0,6,6	-	-	-		
86	OHX	1	4034	-	0,6,6	-	-	-		
86	OHX	5	4110	-	0,6,6	-	-	-		
86	OHX	1	3951	-	0,6,6	-	-	-		
86	OHX	5	4031	-	0,6,6	-	-	-		
86	OHX	2	2142	-	0,6,6	-	-	-		
86	OHX	s1	302	-	0,6,6	-	-	-		
86	OHX	5	4251	-	0,6,6	-	-	-		
86	OHX	2	2077	-	0,6,6	-	-	-		
86	OHX	5	4163	-	0,6,6	-	-	-		
86	OHX	1	4170	-	0,6,6	-	-	-		
86	OHX	5	3995	-	0,6,6	-	-	-		
86	OHX	5	4207	-	0,6,6	-	-	-		
86	OHX	5	4212	-	0,6,6	-	-	-		
86	OHX	6	2096	-	0,6,6	-	-	-		
86	OHX	1	4155	-	0,6,6	-	-	-		
86	OHX	6	2109	-	0,6,6	-	-	-		
86	OHX	2	2123	-	0,6,6	-	-	-		
86	OHX	6	2101	-	0,6,6	-	-	-		
86	OHX	5	4221	-	0,6,6	-	-	-		
86	OHX	5	4123	-	0,6,6	-	-	-		
86	OHX	5	4250	-	0,6,6	-	-	-		
86	OHX	5	4167	-	0,6,6	-	-	-		
86	OHX	5	3923	-	0,6,6	-	-	-		
86	OHX	5	4011	-	0,6,6	-	-	-		
86	OHX	q1	102	-	0,6,6	-	-	-		
86	OHX	1	3991	-	0,6,6	-	-	-		
86	OHX	2	2098	-	0,6,6	-	-	-		
86	OHX	1	4199	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4042	-	0,6,6	-	-	-		
86	OHX	5	4158	-	0,6,6	-	-	-		
86	OHX	1	4106	-	0,6,6	-	-	-		
86	OHX	2	2086	-	0,6,6	-	-	-		
86	OHX	6	2099	-	0,6,6	-	-	-		
86	OHX	5	4052	-	0,6,6	-	-	-		
86	OHX	7	222	-	0,6,6	-	-	-		
86	OHX	1	4152	-	0,6,6	-	-	-		
86	OHX	1	3897	-	0,6,6	-	-	-		
86	OHX	1	4018	-	0,6,6	-	-	-		
86	OHX	5	4208	-	0,6,6	-	-	-		
86	OHX	8	228	-	0,6,6	-	-	-		
86	OHX	6	2140	-	0,6,6	-	-	-		
86	OHX	c8	203	-	0,6,6	-	-	-		
86	OHX	6	2067	-	0,6,6	-	-	-		
86	OHX	1	4060	-	0,6,6	-	-	-		
86	OHX	2	2148	-	0,6,6	-	-	-		
86	OHX	1	3986	-	0,6,6	-	-	-		
86	OHX	1	4129	-	0,6,6	-	-	-		
86	OHX	2	2102	-	0,6,6	-	-	-		
86	OHX	1	4171	-	0,6,6	-	-	-		
86	OHX	6	2088	-	0,6,6	-	-	-		
86	OHX	6	2187	-	0,6,6	-	-	-		
86	OHX	5	3933	-	0,6,6	-	-	-		
86	OHX	5	3965	-	0,6,6	-	-	-		
86	OHX	1	4151	-	0,6,6	-	-	-		
86	OHX	8	217	-	0,6,6	-	-	-		
86	OHX	5	4138	-	0,6,6	-	-	-		
86	OHX	1	4124	-	0,6,6	-	-	-		
86	OHX	6	2054	-	0,6,6	-	-	-		
86	OHX	3	223	-	0,6,6	-	-	-		
86	OHX	5	4242	-	0,6,6	-	-	-		
86	OHX	2	2059	-	0,6,6	-	-	-		
86	OHX	m1	203	-	0,6,6	-	-	-		
86	OHX	1	4150	-	0,6,6	-	-	-		
86	OHX	M9	204	-	0,6,6	-	-	-		
86	OHX	6	2053	-	0,6,6	-	-	-		
86	OHX	6	2055	-	0,6,6	-	-	-		
86	OHX	5	3905	-	0,6,6	-	-	-		
86	OHX	1	4125	-	0,6,6	-	-	-		
86	OHX	1	4132	-	0,6,6	-	-	-		
86	OHX	1	4032	-	0,6,6	-	-	-		
86	OHX	1	3894	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2199	-	0,6,6	-	-	-		
86	OHX	3	217	-	0,6,6	-	-	-		
86	OHX	5	4000	-	0,6,6	-	-	-		
86	OHX	1	4172	-	0,6,6	-	-	-		
86	OHX	5	4195	-	0,6,6	-	-	-		
86	OHX	1	4114	-	0,6,6	-	-	-		
86	OHX	5	4005	-	0,6,6	-	-	-		
86	OHX	5	3946	-	0,6,6	-	-	-		
86	OHX	5	3952	-	0,6,6	-	-	-		
86	OHX	6	2069	-	0,6,6	-	-	-		
86	OHX	1	3906	-	0,6,6	-	-	-		
86	OHX	5	4139	-	0,6,6	-	-	-		
86	OHX	1	4074	-	0,6,6	-	-	-		
86	OHX	2	2131	-	0,6,6	-	-	-		
86	OHX	1	3884	-	0,6,6	-	-	-		
86	OHX	6	2063	-	0,6,6	-	-	-		
86	OHX	1	3981	-	0,6,6	-	-	-		
86	OHX	5	4080	-	0,6,6	-	-	-		
86	OHX	5	4020	-	0,6,6	-	-	-		
86	OHX	1	3957	-	0,6,6	-	-	-		
86	OHX	1	4168	-	0,6,6	-	-	-		
86	OHX	1	4016	-	0,6,6	-	-	-		
86	OHX	2	2032	-	0,6,6	-	-	-		
86	OHX	5	4118	-	0,6,6	-	-	-		
86	OHX	1	3929	-	0,6,6	-	-	-		
86	OHX	6	2155	-	0,6,6	-	-	-		
86	OHX	1	4143	-	0,6,6	-	-	-		
86	OHX	1	4133	-	0,6,6	-	-	-		
86	OHX	1	4131	-	0,6,6	-	-	-		
86	OHX	5	4127	-	0,6,6	-	-	-		
86	OHX	5	4134	-	0,6,6	-	-	-		
86	OHX	8	220	-	0,6,6	-	-	-		
86	OHX	1	4068	-	0,6,6	-	-	-		
86	OHX	1	4062	-	0,6,6	-	-	-		
86	OHX	5	4068	-	0,6,6	-	-	-		
86	OHX	5	3951	-	0,6,6	-	-	-		
86	OHX	5	4010	-	0,6,6	-	-	-		
86	OHX	6	2085	-	0,6,6	-	-	-		
86	OHX	1	4094	-	0,6,6	-	-	-		
86	OHX	3	220	-	0,6,6	-	-	-		
86	OHX	5	4197	-	0,6,6	-	-	-		
86	OHX	1	3926	-	0,6,6	-	-	-		
86	OHX	L3	404	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2145	-	0,6,6	-	-	-		
86	OHX	1	4070	-	0,6,6	-	-	-		
86	OHX	1	3918	-	0,6,6	-	-	-		
86	OHX	5	4023	-	0,6,6	-	-	-		
86	OHX	5	4081	-	0,6,6	-	-	-		
86	OHX	5	4130	-	0,6,6	-	-	-		
86	OHX	2	2163	-	0,6,6	-	-	-		
86	OHX	2	2171	-	0,6,6	-	-	-		
86	OHX	1	4164	-	0,6,6	-	-	-		
86	OHX	1	4184	-	0,6,6	-	-	-		
86	OHX	3	225	-	0,6,6	-	-	-		
86	OHX	2	2128	-	0,6,6	-	-	-		
86	OHX	1	3891	-	0,6,6	-	-	-		
86	OHX	2	2092	-	0,6,6	-	-	-		
86	OHX	5	4133	-	0,6,6	-	-	-		
86	OHX	1	4163	-	0,6,6	-	-	-		
86	OHX	5	4220	-	0,6,6	-	-	-		
86	OHX	6	2077	-	0,6,6	-	-	-		
86	OHX	7	216	-	0,6,6	-	-	-		
86	OHX	6	2197	-	0,6,6	-	-	-		
86	OHX	1	4128	-	0,6,6	-	-	-		
86	OHX	2	2168	-	0,6,6	-	-	-		
86	OHX	1	4194	-	0,6,6	-	-	-		
86	OHX	2	2146	-	0,6,6	-	-	-		
86	OHX	5	4155	-	0,6,6	-	-	-		
86	OHX	1	4113	-	0,6,6	-	-	-		
86	OHX	5	4235	-	0,6,6	-	-	-		
86	OHX	5	3902	-	0,6,6	-	-	-		
86	OHX	1	3876	-	0,6,6	-	-	-		
86	OHX	2	2039	-	0,6,6	-	-	-		
86	OHX	6	2148	-	0,6,6	-	-	-		
86	OHX	6	2160	-	0,6,6	-	-	-		
86	OHX	2	2124	-	0,6,6	-	-	-		
86	OHX	s1	303	-	0,6,6	-	-	-		
86	OHX	6	2065	-	0,6,6	-	-	-		
86	OHX	2	2080	-	0,6,6	-	-	-		
86	OHX	5	4076	-	0,6,6	-	-	-		
86	OHX	6	2194	-	0,6,6	-	-	-		
86	OHX	5	4008	-	0,6,6	-	-	-		
86	OHX	6	2150	-	0,6,6	-	-	-		
86	OHX	2	2037	-	0,6,6	-	-	-		
86	OHX	5	3928	-	0,6,6	-	-	-		
86	OHX	5	4203	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3995	-	0,6,6	-	-	-		
86	OHX	6	2168	-	0,6,6	-	-	-		
86	OHX	1	4071	-	0,6,6	-	-	-		
86	OHX	1	4146	-	0,6,6	-	-	-		
86	OHX	6	2133	-	0,6,6	-	-	-		
86	OHX	2	2103	-	0,6,6	-	-	-		
86	OHX	1	4033	-	0,6,6	-	-	-		
86	OHX	1	3997	-	0,6,6	-	-	-		
86	OHX	6	2157	-	0,6,6	-	-	-		
86	OHX	2	2145	-	0,6,6	-	-	-		
86	OHX	5	3906	-	0,6,6	-	-	-		
86	OHX	2	2044	-	0,6,6	-	-	-		
86	OHX	2	2093	-	0,6,6	-	-	-		
86	OHX	1	4031	-	0,6,6	-	-	-		
86	OHX	1	4123	-	0,6,6	-	-	-		
86	OHX	S8	302	-	0,6,6	-	-	-		
86	OHX	2	2051	-	0,6,6	-	-	-		
86	OHX	2	2065	-	0,6,6	-	-	-		
86	OHX	2	2105	-	0,6,6	-	-	-		
86	OHX	5	3989	-	0,6,6	-	-	-		
86	OHX	7	217	-	0,6,6	-	-	-		
86	OHX	5	3936	-	0,6,6	-	-	-		
86	OHX	2	2143	-	0,6,6	-	-	-		
86	OHX	2	2164	-	0,6,6	-	-	-		
86	OHX	n3	203	-	0,6,6	-	-	-		
86	OHX	2	2025	-	0,6,6	-	-	-		
86	OHX	2	2104	-	0,6,6	-	-	-		
86	OHX	2	2045	-	0,6,6	-	-	-		
86	OHX	6	2102	-	0,6,6	-	-	-		
86	OHX	1	4192	-	0,6,6	-	-	-		
86	OHX	2	2173	-	0,6,6	-	-	-		
86	OHX	2	2036	-	0,6,6	-	-	-		
86	OHX	1	4019	-	0,6,6	-	-	-		
86	OHX	5	3996	-	0,6,6	-	-	-		
86	OHX	1	4011	-	0,6,6	-	-	-		
86	OHX	1	4188	-	0,6,6	-	-	-		
86	OHX	2	2049	-	0,6,6	-	-	-		
86	OHX	8	227	-	0,6,6	-	-	-		
86	OHX	1	4144	-	0,6,6	-	-	-		
86	OHX	1	3953	-	0,6,6	-	-	-		
86	OHX	2	2152	-	0,6,6	-	-	-		
86	OHX	1	4176	-	0,6,6	-	-	-		
86	OHX	1	3937	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3957	-	0,6,6	-	-	-		
86	OHX	5	4054	-	0,6,6	-	-	-		
86	OHX	5	3984	-	0,6,6	-	-	-		
86	OHX	1	4122	-	0,6,6	-	-	-		
86	OHX	5	4239	-	0,6,6	-	-	-		
86	OHX	7	226	-	0,6,6	-	-	-		
86	OHX	2	2121	-	0,6,6	-	-	-		
86	OHX	6	2153	-	0,6,6	-	-	-		
86	OHX	5	4160	-	0,6,6	-	-	-		
86	OHX	5	3976	-	0,6,6	-	-	-		
86	OHX	1	4080	-	0,6,6	-	-	-		
86	OHX	5	4185	-	0,6,6	-	-	-		
86	OHX	6	2152	-	0,6,6	-	-	-		
86	OHX	5	4003	-	0,6,6	-	-	-		
86	OHX	6	2082	-	0,6,6	-	-	-		
86	OHX	5	4096	-	0,6,6	-	-	-		
86	OHX	5	4077	-	0,6,6	-	-	-		
86	OHX	5	4079	-	0,6,6	-	-	-		
86	OHX	5	3937	-	0,6,6	-	-	-		
86	OHX	1	4095	-	0,6,6	-	-	-		
86	OHX	5	4214	-	0,6,6	-	-	-		
86	OHX	5	4047	-	0,6,6	-	-	-		
86	OHX	1	4083	-	0,6,6	-	-	-		
86	OHX	5	3958	-	0,6,6	-	-	-		
86	OHX	1	4010	-	0,6,6	-	-	-		
86	OHX	1	4041	-	0,6,6	-	-	-		
86	OHX	5	4013	-	0,6,6	-	-	-		
86	OHX	6	2078	-	0,6,6	-	-	-		
86	OHX	1	3956	-	0,6,6	-	-	-		
86	OHX	2	2138	-	0,6,6	-	-	-		
86	OHX	1	4020	-	0,6,6	-	-	-		
86	OHX	2	2076	-	0,6,6	-	-	-		
86	OHX	1	3908	-	0,6,6	-	-	-		
86	OHX	6	2146	-	0,6,6	-	-	-		
86	OHX	5	4161	-	0,6,6	-	-	-		
86	OHX	4	228	-	0,6,6	-	-	-		
86	OHX	1	3901	-	0,6,6	-	-	-		
86	OHX	5	3960	-	0,6,6	-	-	-		
86	OHX	1	3900	-	0,6,6	-	-	-		
86	OHX	5	4216	-	0,6,6	-	-	-		
86	OHX	5	4146	-	0,6,6	-	-	-		
86	OHX	4	231	-	0,6,6	-	-	-		
86	OHX	5	4073	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	3944	-	0,6,6	-	-	-		
86	OHX	2	2134	-	0,6,6	-	-	-		
86	OHX	5	4193	-	0,6,6	-	-	-		
86	OHX	1	3999	-	0,6,6	-	-	-		
86	OHX	5	3948	-	0,6,6	-	-	-		
86	OHX	1	3934	-	0,6,6	-	-	-		
86	OHX	1	3988	-	0,6,6	-	-	-		
86	OHX	1	4159	-	0,6,6	-	-	-		
86	OHX	5	3974	-	0,6,6	-	-	-		
86	OHX	n9	101	-	0,6,6	-	-	-		
86	OHX	5	3983	-	0,6,6	-	-	-		
86	OHX	5	4222	-	0,6,6	-	-	-		
86	OHX	1	4067	-	0,6,6	-	-	-		
86	OHX	5	3950	-	0,6,6	-	-	-		
86	OHX	2	2071	-	0,6,6	-	-	-		
86	OHX	5	4172	-	0,6,6	-	-	-		
86	OHX	5	4241	-	0,6,6	-	-	-		
86	OHX	2	2024	-	0,6,6	-	-	-		
86	OHX	8	230	-	0,6,6	-	-	-		
86	OHX	m0	301	-	0,6,6	-	-	-		
86	OHX	6	2126	-	0,6,6	-	-	-		
86	OHX	5	4056	-	0,6,6	-	-	-		
86	OHX	2	2046	-	0,6,6	-	-	-		
86	OHX	5	3997	-	0,6,6	-	-	-		
86	OHX	4	222	-	0,6,6	-	-	-		
86	OHX	6	2176	-	0,6,6	-	-	-		
86	OHX	1	4119	-	0,6,6	-	-	-		
86	OHX	C3	201	-	0,6,6	-	-	-		
86	OHX	1	3954	-	0,6,6	-	-	-		
86	OHX	1	3885	-	0,6,6	-	-	-		
86	OHX	1	4014	-	0,6,6	-	-	-		
86	OHX	6	2071	-	0,6,6	-	-	-		
86	OHX	6	2132	-	0,6,6	-	-	-		
86	OHX	5	4156	-	0,6,6	-	-	-		
86	OHX	5	4182	-	0,6,6	-	-	-		
86	OHX	1	3883	-	0,6,6	-	-	-		
86	OHX	5	4152	-	0,6,6	-	-	-		
86	OHX	D9	102	-	0,6,6	-	-	-		
86	OHX	1	4052	-	0,6,6	-	-	-		
86	OHX	1	4117	-	0,6,6	-	-	-		
86	OHX	4	225	-	0,6,6	-	-	-		
86	OHX	6	2080	-	0,6,6	-	-	-		
86	OHX	6	2123	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4144	-	0,6,6	-	-	-		
86	OHX	5	4183	-	0,6,6	-	-	-		
86	OHX	6	2135	-	0,6,6	-	-	-		
86	OHX	6	2202	-	0,6,6	-	-	-		
86	OHX	5	3934	-	0,6,6	-	-	-		
86	OHX	1	4177	-	0,6,6	-	-	-		
86	OHX	6	2098	-	0,6,6	-	-	-		
86	OHX	6	2139	-	0,6,6	-	-	-		
86	OHX	6	2049	-	0,6,6	-	-	-		
86	OHX	2	2100	-	0,6,6	-	-	-		
86	OHX	1	3928	-	0,6,6	-	-	-		
86	OHX	6	2196	-	0,6,6	-	-	-		
86	OHX	1	3941	-	0,6,6	-	-	-		
86	OHX	5	4009	-	0,6,6	-	-	-		
86	OHX	5	4108	-	0,6,6	-	-	-		
86	OHX	6	2070	-	0,6,6	-	-	-		
86	OHX	5	4200	-	0,6,6	-	-	-		
86	OHX	7	221	-	0,6,6	-	-	-		
86	OHX	2	2099	-	0,6,6	-	-	-		
86	OHX	5	4025	-	0,6,6	-	-	-		
86	OHX	1	4084	-	0,6,6	-	-	-		
86	OHX	6	2141	-	0,6,6	-	-	-		
86	OHX	4	229	-	0,6,6	-	-	-		
86	OHX	o3	202	-	0,6,6	-	-	-		
86	OHX	2	2170	-	0,6,6	-	-	-		
86	OHX	5	4037	-	0,6,6	-	-	-		
86	OHX	1	4121	-	0,6,6	-	-	-		
86	OHX	6	2089	-	0,6,6	-	-	-		
86	OHX	4	236	-	0,6,6	-	-	-		
86	OHX	5	4015	-	0,6,6	-	-	-		
86	OHX	5	4006	-	0,6,6	-	-	-		
86	OHX	5	3903	-	0,6,6	-	-	-		
86	OHX	5	4060	-	0,6,6	-	-	-		
86	OHX	2	2096	-	0,6,6	-	-	-		
86	OHX	3	224	-	0,6,6	-	-	-		
86	OHX	5	4091	-	0,6,6	-	-	-		
86	OHX	2	2088	-	0,6,6	-	-	-		
86	OHX	2	2109	-	0,6,6	-	-	-		
86	OHX	6	2192	-	0,6,6	-	-	-		
86	OHX	5	4107	-	0,6,6	-	-	-		
86	OHX	5	3964	-	0,6,6	-	-	-		
86	OHX	1	4100	-	0,6,6	-	-	-		
86	OHX	4	233	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4111	-	0,6,6	-	-	-		
86	OHX	2	2054	-	0,6,6	-	-	-		
86	OHX	S6	301	-	0,6,6	-	-	-		
86	OHX	5	4113	-	0,6,6	-	-	-		
86	OHX	5	3913	-	0,6,6	-	-	-		
86	OHX	1	4093	-	0,6,6	-	-	-		
86	OHX	1	4158	-	0,6,6	-	-	-		
86	OHX	5	3962	-	0,6,6	-	-	-		
86	OHX	5	4191	-	0,6,6	-	-	-		
86	OHX	1	4098	-	0,6,6	-	-	-		
86	OHX	6	2068	-	0,6,6	-	-	-		
86	OHX	5	4022	-	0,6,6	-	-	-		
86	OHX	7	220	-	0,6,6	-	-	-		
86	OHX	5	4098	-	0,6,6	-	-	-		
86	OHX	5	4102	-	0,6,6	-	-	-		
86	OHX	5	4145	-	0,6,6	-	-	-		
86	OHX	6	2138	-	0,6,6	-	-	-		
86	OHX	L3	403	-	0,6,6	-	-	-		
86	OHX	1	4208	-	0,6,6	-	-	-		
86	OHX	6	2173	-	0,6,6	-	-	-		
86	OHX	5	4115	-	0,6,6	-	-	-		
86	OHX	1	3966	-	0,6,6	-	-	-		
86	OHX	2	2029	-	0,6,6	-	-	-		
86	OHX	5	4159	-	0,6,6	-	-	-		
86	OHX	2	2060	-	0,6,6	-	-	-		
86	OHX	5	4173	-	0,6,6	-	-	-		
86	OHX	5	3968	-	0,6,6	-	-	-		
86	OHX	1	4069	-	0,6,6	-	-	-		
86	OHX	2	2028	-	0,6,6	-	-	-		
86	OHX	d4	201	-	0,6,6	-	-	-		
86	OHX	2	2042	-	0,6,6	-	-	-		
86	OHX	5	4223	-	0,6,6	-	-	-		
86	OHX	1	4210	-	0,6,6	-	-	-		
86	OHX	7	218	-	0,6,6	-	-	-		
86	OHX	5	4192	-	0,6,6	-	-	-		
86	OHX	5	4229	-	0,6,6	-	-	-		
86	OHX	m8	201	-	0,6,6	-	-	-		
86	OHX	1	4053	-	0,6,6	-	-	-		
86	OHX	1	4201	-	0,6,6	-	-	-		
86	OHX	2	2074	-	0,6,6	-	-	-		
86	OHX	1	4165	-	0,6,6	-	-	-		
86	OHX	1	4187	-	0,6,6	-	-	-		
86	OHX	c5	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	6	2137	-	0,6,6	-	-	-		
86	OHX	1	3905	-	0,6,6	-	-	-		
86	OHX	1	3930	-	0,6,6	-	-	-		
86	OHX	1	3880	-	0,6,6	-	-	-		
86	OHX	5	3945	-	0,6,6	-	-	-		
86	OHX	5	4038	-	0,6,6	-	-	-		
86	OHX	1	3944	-	0,6,6	-	-	-		
86	OHX	1	4212	-	0,6,6	-	-	-		
86	OHX	Q2	503	-	0,6,6	-	-	-		
86	OHX	6	2076	-	0,6,6	-	-	-		
86	OHX	1	3871	-	0,6,6	-	-	-		
86	OHX	1	3868	-	0,6,6	-	-	-		
86	OHX	6	2164	-	0,6,6	-	-	-		
86	OHX	6	2167	-	0,6,6	-	-	-		
86	OHX	5	4218	-	0,6,6	-	-	-		
86	OHX	6	2074	-	0,6,6	-	-	-		
86	OHX	1	3976	-	0,6,6	-	-	-		
86	OHX	5	3943	86	0,6,6	-	-	-		
86	OHX	1	3909	-	0,6,6	-	-	-		
86	OHX	5	4206	-	0,6,6	-	-	-		
86	OHX	5	4053	-	0,6,6	-	-	-		
86	OHX	5	3986	-	0,6,6	-	-	-		
86	OHX	6	2091	-	0,6,6	-	-	-		
86	OHX	6	2050	-	0,6,6	-	-	-		
86	OHX	1	3960	-	0,6,6	-	-	-		
86	OHX	5	4078	-	0,6,6	-	-	-		
86	OHX	m7	206	-	0,6,6	-	-	-		
86	OHX	2	2140	-	0,6,6	-	-	-		
86	OHX	5	4150	-	0,6,6	-	-	-		
86	OHX	2	2107	-	0,6,6	-	-	-		
86	OHX	5	4181	-	0,6,6	-	-	-		
86	OHX	1	4073	-	0,6,6	-	-	-		
86	OHX	1	4022	-	0,6,6	-	-	-		
86	OHX	5	4180	-	0,6,6	-	-	-		
86	OHX	5	4090	-	0,6,6	-	-	-		
86	OHX	1	3925	-	0,6,6	-	-	-		
86	OHX	1	4118	-	0,6,6	-	-	-		
86	OHX	2	2176	-	0,6,6	-	-	-		
86	OHX	2	2087	-	0,6,6	-	-	-		
86	OHX	5	4128	-	0,6,6	-	-	-		
86	OHX	1	4127	-	0,6,6	-	-	-		
86	OHX	1	4206	-	0,6,6	-	-	-		
86	OHX	6	2142	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	3913	-	0,6,6	-	-	-		
86	OHX	6	2183	-	0,6,6	-	-	-		
86	OHX	5	3927	-	0,6,6	-	-	-		
86	OHX	1	3882	-	0,6,6	-	-	-		
86	OHX	1	3873	-	0,6,6	-	-	-		
86	OHX	5	4184	-	0,6,6	-	-	-		
86	OHX	4	235	-	0,6,6	-	-	-		
86	OHX	6	2108	-	0,6,6	-	-	-		
86	OHX	2	2033	-	0,6,6	-	-	-		
86	OHX	5	4168	-	0,6,6	-	-	-		
86	OHX	8	223	-	0,6,6	-	-	-		
86	OHX	5	4226	-	0,6,6	-	-	-		
86	OHX	6	2156	-	0,6,6	-	-	-		
86	OHX	1	4148	-	0,6,6	-	-	-		
86	OHX	1	4197	-	0,6,6	-	-	-		
86	OHX	5	4030	-	0,6,6	-	-	-		
86	OHX	1	4108	-	0,6,6	-	-	-		
86	OHX	1	3948	-	0,6,6	-	-	-		
86	OHX	1	3870	-	0,6,6	-	-	-		
86	OHX	1	3963	-	0,6,6	-	-	-		
86	OHX	1	4051	-	0,6,6	-	-	-		
86	OHX	6	2161	-	0,6,6	-	-	-		
86	OHX	2	2136	-	0,6,6	-	-	-		
86	OHX	1	3890	-	0,6,6	-	-	-		
86	OHX	8	231	-	0,6,6	-	-	-		
86	OHX	1	4056	-	0,6,6	-	-	-		
86	OHX	2	2069	-	0,6,6	-	-	-		
86	OHX	1	4179	-	0,6,6	-	-	-		
86	OHX	N1	201	-	0,6,6	-	-	-		
86	OHX	5	3915	-	0,6,6	-	-	-		
86	OHX	6	2127	-	0,6,6	-	-	-		
86	OHX	5	3969	-	0,6,6	-	-	-		
86	OHX	6	2179	-	0,6,6	-	-	-		
86	OHX	1	4115	-	0,6,6	-	-	-		
86	OHX	1	4162	-	0,6,6	-	-	-		
86	OHX	2	2125	-	0,6,6	-	-	-		
86	OHX	5	4002	-	0,6,6	-	-	-		
86	OHX	5	4153	-	0,6,6	-	-	-		
86	OHX	1	4076	-	0,6,6	-	-	-		
86	OHX	5	4070	-	0,6,6	-	-	-		
86	OHX	5	3918	-	0,6,6	-	-	-		
86	OHX	2	2070	-	0,6,6	-	-	-		
86	OHX	1	4013	-	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	1	4065	-	0,6,6	-	-	-		
86	OHX	1	3878	-	0,6,6	-	-	-		
86	OHX	5	4202	-	0,6,6	-	-	-		
86	OHX	2	2058	-	0,6,6	-	-	-		
86	OHX	5	3977	-	0,6,6	-	-	-		
86	OHX	1	3992	-	0,6,6	-	-	-		
86	OHX	2	2068	-	0,6,6	-	-	-		
86	OHX	1	4136	-	0,6,6	-	-	-		
86	OHX	5	4045	-	0,6,6	-	-	-		
86	OHX	2	2085	-	0,6,6	-	-	-		
86	OHX	5	4119	-	0,6,6	-	-	-		
86	OHX	5	4057	-	0,6,6	-	-	-		
86	OHX	6	2125	-	0,6,6	-	-	-		
86	OHX	5	4101	-	0,6,6	-	-	-		
86	OHX	8	222	-	0,6,6	-	-	-		
86	OHX	5	4028	-	0,6,6	-	-	-		
86	OHX	5	4058	-	0,6,6	-	-	-		
86	OHX	6	2185	-	0,6,6	-	-	-		
86	OHX	6	2195	-	0,6,6	-	-	-		
86	OHX	5	4065	-	0,6,6	-	-	-		
86	OHX	6	2181	-	0,6,6	-	-	-		
86	OHX	5	3941	-	0,6,6	-	-	-		
86	OHX	1	4207	-	0,6,6	-	-	-		
86	OHX	5	3992	-	0,6,6	-	-	-		
86	OHX	2	2031	-	0,6,6	-	-	-		
86	OHX	2	2034	-	0,6,6	-	-	-		
86	OHX	1	3914	-	0,6,6	-	-	-		
86	OHX	6	2130	-	0,6,6	-	-	-		
86	OHX	6	2151	-	0,6,6	-	-	-		
86	OHX	2	2120	-	0,6,6	-	-	-		
86	OHX	2	2147	-	0,6,6	-	-	-		
86	OHX	5	3972	-	0,6,6	-	-	-		
86	OHX	5	3987	-	0,6,6	-	-	-		
86	OHX	5	4140	-	0,6,6	-	-	-		
86	OHX	1	3931	-	0,6,6	-	-	-		
86	OHX	5	4039	-	0,6,6	-	-	-		
86	OHX	5	4247	-	0,6,6	-	-	-		
86	OHX	1	3968	-	0,6,6	-	-	-		
87	PCY	2	2178	-	34,42,42	0.47	0	41,65,65	1.40	3 (7%)
86	OHX	5	4126	-	0,6,6	-	-	-		
86	OHX	1	3923	-	0,6,6	-	-	-		
86	OHX	5	4211	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	5	4227	-	0,6,6	-	-	-		
86	OHX	6	2086	-	0,6,6	-	-	-		
86	OHX	c3	201	-	0,6,6	-	-	-		
86	OHX	1	4054	-	0,6,6	-	-	-		
86	OHX	2	2122	-	0,6,6	-	-	-		
86	OHX	1	3994	-	0,6,6	-	-	-		
86	OHX	6	2110	-	0,6,6	-	-	-		
86	OHX	2	2113	-	0,6,6	-	-	-		
86	OHX	L3	405	-	0,6,6	-	-	-		
86	OHX	1	4166	-	0,6,6	-	-	-		
86	OHX	5	3942	-	0,6,6	-	-	-		
86	OHX	1	4088	-	0,6,6	-	-	-		
86	OHX	2	2073	-	0,6,6	-	-	-		
86	OHX	2	2052	-	0,6,6	-	-	-		
86	OHX	O3	202	-	0,6,6	-	-	-		
86	OHX	l5	303	-	0,6,6	-	-	-		
86	OHX	o7	503	-	0,6,6	-	-	-		
86	OHX	5	4238	-	0,6,6	-	-	-		
86	OHX	5	4066	-	0,6,6	-	-	-		
86	OHX	1	4003	-	0,6,6	-	-	-		
86	OHX	14	402	-	0,6,6	-	-	-		
86	OHX	2	2030	-	0,6,6	-	-	-		
86	OHX	1	4096	-	0,6,6	-	-	-		
86	OHX	2	2158	-	0,6,6	-	-	-		
86	OHX	1	3886	-	0,6,6	-	-	-		
86	OHX	1	4077	-	0,6,6	-	-	-		
86	OHX	1	4079	-	0,6,6	-	-	-		
86	OHX	2	2149	-	0,6,6	-	-	-		
86	OHX	1	4213	-	0,6,6	-	-	-		
86	OHX	4	230	-	0,6,6	-	-	-		
86	OHX	1	3903	-	0,6,6	-	-	-		
86	OHX	1	4047	-	0,6,6	-	-	-		
86	OHX	1	4091	-	0,6,6	-	-	-		
86	OHX	6	2154	-	0,6,6	-	-	-		
86	OHX	5	4131	-	0,6,6	-	-	-		
86	OHX	5	4055	-	0,6,6	-	-	-		
86	OHX	5	4092	-	0,6,6	-	-	-		
86	OHX	1	4004	-	0,6,6	-	-	-		
86	OHX	5	4051	-	0,6,6	-	-	-		
86	OHX	6	2084	-	0,6,6	-	-	-		
86	OHX	6	2121	-	0,6,6	-	-	-		
86	OHX	5	4021	-	0,6,6	-	-	-		
86	OHX	6	2171	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4008	-	0,6,6	-	-	-		
86	OHX	1	3907	-	0,6,6	-	-	-		
86	OHX	1	4198	-	0,6,6	-	-	-		
86	OHX	5	3971	-	0,6,6	-	-	-		
86	OHX	2	2079	-	0,6,6	-	-	-		
86	OHX	6	2083	-	0,6,6	-	-	-		
86	OHX	1	3904	-	0,6,6	-	-	-		
86	OHX	6	2159	-	0,6,6	-	-	-		
86	OHX	2	2112	-	0,6,6	-	-	-		
86	OHX	5	4234	-	0,6,6	-	-	-		
86	OHX	5	3993	-	0,6,6	-	-	-		
86	OHX	5	3919	-	0,6,6	-	-	-		
86	OHX	1	3927	-	0,6,6	-	-	-		
86	OHX	5	4121	-	0,6,6	-	-	-		
86	OHX	5	4137	-	0,6,6	-	-	-		
86	OHX	1	3946	-	0,6,6	-	-	-		
86	OHX	5	4095	-	0,6,6	-	-	-		
86	OHX	1	3974	-	0,6,6	-	-	-		
86	OHX	2	2161	-	0,6,6	-	-	-		
86	OHX	5	4001	-	0,6,6	-	-	-		
86	OHX	6	2189	-	0,6,6	-	-	-		
86	OHX	5	4043	-	0,6,6	-	-	-		
86	OHX	5	3904	-	0,6,6	-	-	-		
86	OHX	2	2062	-	0,6,6	-	-	-		
86	OHX	2	2139	-	0,6,6	-	-	-		
86	OHX	1	3915	-	0,6,6	-	-	-		
86	OHX	1	3950	-	0,6,6	-	-	-		
86	OHX	1	4059	-	0,6,6	-	-	-		
86	OHX	5	4071	-	0,6,6	-	-	-		
86	OHX	5	4143	-	0,6,6	-	-	-		
86	OHX	6	2081	-	0,6,6	-	-	-		
86	OHX	1	3936	-	0,6,6	-	-	-		
86	OHX	7	224	-	0,6,6	-	-	-		
86	OHX	m4	201	-	0,6,6	-	-	-		
86	OHX	4	227	-	0,6,6	-	-	-		
86	OHX	6	2059	-	0,6,6	-	-	-		
86	OHX	1	3867	-	0,6,6	-	-	-		
86	OHX	2	2141	-	0,6,6	-	-	-		
86	OHX	5	3901	-	0,6,6	-	-	-		
86	OHX	5	3900	-	0,6,6	-	-	-		
86	OHX	5	3930	-	0,6,6	-	-	-		
86	OHX	5	3938	-	0,6,6	-	-	-		
86	OHX	5	4007	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	8	232	-	0,6,6	-	-	-		
86	OHX	1	4134	-	0,6,6	-	-	-		
86	OHX	4	234	-	0,6,6	-	-	-		
86	OHX	5	3932	-	0,6,6	-	-	-		
86	OHX	1	4182	-	0,6,6	-	-	-		
86	OHX	5	4243	-	0,6,6	-	-	-		
86	OHX	5	3980	-	0,6,6	-	-	-		
86	OHX	5	3988	-	0,6,6	-	-	-		
86	OHX	2	2078	-	0,6,6	-	-	-		
86	OHX	1	4027	-	0,6,6	-	-	-		
86	OHX	1	4183	-	0,6,6	-	-	-		
86	OHX	5	3956	-	0,6,6	-	-	-		
86	OHX	1	4195	-	0,6,6	-	-	-		
86	OHX	6	2147	-	0,6,6	-	-	-		
86	OHX	5	3955	-	0,6,6	-	-	-		
86	OHX	6	2163	-	0,6,6	-	-	-		
86	OHX	5	4033	-	0,6,6	-	-	-		
86	OHX	1	4110	-	0,6,6	-	-	-		
86	OHX	1	4087	-	0,6,6	-	-	-		
86	OHX	1	4012	-	0,6,6	-	-	-		
86	OHX	M7	205	-	0,6,6	-	-	-		
86	OHX	m0	302	-	0,6,6	-	-	-		
86	OHX	1	4193	-	0,6,6	-	-	-		
86	OHX	2	2165	-	0,6,6	-	-	-		
86	OHX	C5	201	-	0,6,6	-	-	-		
86	OHX	1	3958	-	0,6,6	-	-	-		
86	OHX	1	4009	-	0,6,6	-	-	-		
86	OHX	5	4086	-	0,6,6	-	-	-		
86	OHX	2	2137	-	0,6,6	-	-	-		
86	OHX	5	4074	-	0,6,6	-	-	-		
86	OHX	N9	102	-	0,6,6	-	-	-		
86	OHX	1	4055	-	0,6,6	-	-	-		
86	OHX	1	4135	-	0,6,6	-	-	-		
86	OHX	1	4006	-	0,6,6	-	-	-		
86	OHX	5	4244	-	0,6,6	-	-	-		
86	OHX	6	2172	-	0,6,6	-	-	-		
86	OHX	1	4044	-	0,6,6	-	-	-		
86	OHX	1	4005	-	0,6,6	-	-	-		
86	OHX	5	4205	-	0,6,6	-	-	-		
86	OHX	5	4112	-	0,6,6	-	-	-		
86	OHX	1	4111	-	0,6,6	-	-	-		
86	OHX	5	4088	-	0,6,6	-	-	-		
86	OHX	1	3983	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	3	218	-	0,6,6	-	-	-		
86	OHX	2	2174	-	0,6,6	-	-	-		
86	OHX	5	4099	-	0,6,6	-	-	-		
86	OHX	5	3911	-	0,6,6	-	-	-		
86	OHX	6	2093	-	0,6,6	-	-	-		
86	OHX	1	3987	-	0,6,6	-	-	-		
86	OHX	2	2095	-	0,6,6	-	-	-		
86	OHX	2	2169	-	0,6,6	-	-	-		
86	OHX	5	4082	-	0,6,6	-	-	-		
86	OHX	1	4145	-	0,6,6	-	-	-		
86	OHX	5	4246	-	0,6,6	-	-	-		
86	OHX	3	226	-	0,6,6	-	-	-		
86	OHX	2	2072	-	0,6,6	-	-	-		
86	OHX	5	4061	-	0,6,6	-	-	-		
87	PCY	6	2204	-	34,42,42	0.60	1 (2%)	41,65,65	1.39	2 (4%)
86	OHX	1	4173	-	0,6,6	-	-	-		
86	OHX	5	3935	-	0,6,6	-	-	-		
86	OHX	2	2097	-	0,6,6	-	-	-		
86	OHX	6	2124	-	0,6,6	-	-	-		
86	OHX	2	2048	-	0,6,6	-	-	-		
86	OHX	5	3907	-	0,6,6	-	-	-		
86	OHX	6	2182	-	0,6,6	-	-	-		
86	OHX	6	2116	-	0,6,6	-	-	-		
86	OHX	13	404	-	0,6,6	-	-	-		
86	OHX	1	3864	-	0,6,6	-	-	-		
86	OHX	1	4142	-	0,6,6	-	-	-		
86	OHX	6	2057	-	0,6,6	-	-	-		
86	OHX	2	2082	-	0,6,6	-	-	-		
86	OHX	5	4189	-	0,6,6	-	-	-		
86	OHX	1	3965	-	0,6,6	-	-	-		
86	OHX	5	3925	-	0,6,6	-	-	-		
86	OHX	5	4154	-	0,6,6	-	-	-		
86	OHX	3	215	-	0,6,6	-	-	-		
86	OHX	1	4025	-	0,6,6	-	-	-		
86	OHX	1	4064	-	0,6,6	-	-	-		
86	OHX	1	4138	-	0,6,6	-	-	-		
86	OHX	n9	102	-	0,6,6	-	-	-		
86	OHX	5	3973	-	0,6,6	-	-	-		
86	OHX	2	2083	-	0,6,6	-	-	-		
86	OHX	1	4015	-	0,6,6	-	-	-		
86	OHX	6	2060	-	0,6,6	-	-	-		
86	OHX	1	4063	-	0,6,6	-	-	-		
86	OHX	5	4215	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
86	OHX	1	4139	-	0,6,6	-	-	-		
86	OHX	5	3994	-	0,6,6	-	-	-		
86	OHX	2	2094	-	0,6,6	-	-	-		
86	OHX	1	3943	-	0,6,6	-	-	-		
86	OHX	2	2050	-	0,6,6	-	-	-		
86	OHX	1	4057	-	0,6,6	-	-	-		
86	OHX	1	4116	-	0,6,6	-	-	-		
86	OHX	5	3949	-	0,6,6	-	-	-		
86	OHX	1	4105	-	0,6,6	-	-	-		
86	OHX	6	2162	-	0,6,6	-	-	-		
86	OHX	5	3998	-	0,6,6	-	-	-		
86	OHX	5	4174	-	0,6,6	-	-	-		
86	OHX	5	4219	-	0,6,6	-	-	-		
86	OHX	5	3967	-	0,6,6	-	-	-		
86	OHX	5	4105	-	0,6,6	-	-	-		
86	OHX	5	4151	-	0,6,6	-	-	-		
86	OHX	5	3959	-	0,6,6	-	-	-		
86	OHX	1	4181	-	0,6,6	-	-	-		
86	OHX	5	4027	-	0,6,6	-	-	-		
86	OHX	5	4190	-	0,6,6	-	-	-		
86	OHX	2	2066	-	0,6,6	-	-	-		
86	OHX	s9	201	-	0,6,6	-	-	-		
86	OHX	5	3908	-	0,6,6	-	-	-		
86	OHX	1	3872	-	0,6,6	-	-	-		
86	OHX	1	4092	-	0,6,6	-	-	-		
86	OHX	2	2055	-	0,6,6	-	-	-		
86	OHX	6	2166	-	0,6,6	-	-	-		
86	OHX	1	3975	-	0,6,6	-	-	-		
86	OHX	5	4004	-	0,6,6	-	-	-		
86	OHX	5	4059	-	0,6,6	-	-	-		
86	OHX	5	3975	-	0,6,6	-	-	-		
86	OHX	6	2165	-	0,6,6	-	-	-		
86	OHX	2	2110	-	0,6,6	-	-	-		
86	OHX	5	4149	-	0,6,6	-	-	-		
86	OHX	2	2035	-	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
87	PCY	6	2204	-	-	10/33/67/67	0/3/3/3
87	PCY	2	2178	-	-	6/33/67/67	0/3/3/3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
87	6	2204	PCY	C24-C28	2.05	1.42	1.39

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	2	2178	PCY	N2-C1-N4	-7.12	111.41	116.74
87	6	2204	PCY	N2-C1-N4	-6.81	111.64	116.74
87	2	2178	PCY	O14-C7-C13	-2.91	102.82	109.17
87	2	2178	PCY	O5-C1-N2	2.23	126.12	121.36
87	6	2204	PCY	O5-C1-N2	2.20	126.04	121.36

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
87	2	2178	PCY	N2-C3-C6-C11
87	2	2178	PCY	N2-C3-C6-O12
87	2	2178	PCY	C7-C3-C6-C11
87	2	2178	PCY	C8-C3-C6-C11
87	6	2204	PCY	N2-C3-C6-C11
87	6	2204	PCY	N2-C3-C6-O12
87	6	2204	PCY	C7-C3-C6-C11
87	6	2204	PCY	C7-C3-C6-O12
87	6	2204	PCY	C8-C3-C6-C11
87	6	2204	PCY	C8-C3-C6-O12
87	6	2204	PCY	O19-C15-C18-O21
87	6	2204	PCY	C7-C15-C18-O21
87	2	2178	PCY	C8-C3-C6-O12
87	6	2204	PCY	O26-C23-C27-C30
87	2	2178	PCY	C7-C3-C6-O12
87	6	2204	PCY	O21-C23-C27-C30

There are no ring outliers.

488 monomers are involved in 732 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	4035	OHX	4	0
86	1	4137	OHX	1	0
86	5	4186	OHX	1	0
86	1	4030	OHX	6	0
86	8	229	OHX	2	0
86	6	2174	OHX	1	0
86	1	4043	OHX	6	0
86	5	4198	OHX	3	0
86	5	4141	OHX	1	0
86	1	3955	OHX	5	0
86	1	4038	OHX	2	0
86	5	3961	OHX	1	0
86	2	2084	OHX	1	0
86	2	2067	OHX	1	0
86	5	3920	OHX	1	0
86	1	4153	OHX	2	0
86	5	4162	OHX	1	0
86	5	4089	OHX	1	0
86	5	3963	OHX	4	0
86	1	4037	OHX	2	0
86	1	3896	OHX	1	0
86	1	3970	OHX	1	0
86	1	4180	OHX	3	0
86	2	2117	OHX	2	0
86	5	3910	OHX	1	0
86	2	2130	OHX	1	0
86	6	2046	OHX	1	0
86	6	2095	OHX	1	0
86	5	4072	OHX	1	0
86	7	225	OHX	7	0
86	6	2178	OHX	1	0
86	1	4081	OHX	1	0
86	5	4050	OHX	1	0
86	1	3979	OHX	1	0
86	1	3888	OHX	1	0
86	1	3972	OHX	1	0
86	2	2127	OHX	1	0
86	1	4036	OHX	2	0
86	1	4039	OHX	2	0
86	2	2154	OHX	1	0
86	5	4231	OHX	1	0
86	5	4017	OHX	1	0
86	2	2106	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3978	OHX	1	0
86	1	3879	OHX	1	0
86	1	3969	OHX	6	0
86	6	2188	OHX	2	0
86	L4	403	OHX	1	0
86	5	3985	OHX	1	0
86	2	2167	OHX	1	0
86	M7	206	OHX	1	0
86	2	2111	OHX	1	0
86	5	4120	OHX	1	0
86	5	4097	OHX	1	0
86	2	2038	OHX	1	0
86	1	3881	OHX	1	0
86	2	2151	OHX	1	0
86	8	219	OHX	6	0
86	5	4049	OHX	1	0
86	6	2061	OHX	1	0
86	5	3917	OHX	2	0
86	5	3970	OHX	1	0
86	1	3865	OHX	1	0
86	5	4233	OHX	6	0
86	1	4001	OHX	6	0
86	1	4154	OHX	4	0
86	2	2153	OHX	1	0
86	1	3964	OHX	1	0
86	4	224	OHX	1	0
86	1	4196	OHX	1	0
86	6	2103	OHX	1	0
86	s8	303	OHX	1	0
86	1	4066	OHX	1	0
86	1	3980	OHX	1	0
86	4	237	OHX	1	0
86	2	2166	OHX	1	0
86	1	4141	OHX	1	0
86	5	4024	OHX	1	0
86	2	2144	OHX	1	0
86	6	2106	OHX	1	0
86	5	4044	OHX	1	0
86	6	2119	OHX	1	0
86	1	3945	OHX	1	0
86	6	2062	OHX	2	0
86	2	2160	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2203	OHX	1	0
86	6	2170	OHX	9	0
86	4	226	OHX	1	0
86	q2	502	OHX	3	0
86	2	2126	OHX	2	0
86	6	2111	OHX	2	0
86	2	2075	OHX	1	0
86	l5	305	OHX	1	0
86	5	4224	OHX	2	0
86	5	3990	OHX	1	0
86	5	4093	OHX	3	0
86	5	4114	OHX	1	0
86	6	2177	OHX	1	0
86	M5	303	OHX	1	0
86	1	3924	OHX	2	0
86	6	2120	OHX	8	0
86	5	4196	OHX	1	0
86	5	3979	OHX	8	0
86	o7	502	OHX	1	0
86	5	4029	OHX	1	0
86	1	4017	OHX	1	0
86	6	2169	OHX	1	0
86	6	2107	OHX	2	0
86	1	4026	OHX	5	0
86	6	2114	OHX	1	0
86	8	218	OHX	1	0
86	1	4000	OHX	1	0
86	1	4174	OHX	1	0
86	2	2047	OHX	1	0
86	6	2149	OHX	5	0
86	6	2201	OHX	2	0
86	6	2092	OHX	1	0
86	1	4028	OHX	1	0
86	2	2040	OHX	2	0
86	6	2079	OHX	1	0
86	6	2112	OHX	1	0
86	6	2100	OHX	3	0
86	1	4178	OHX	1	0
86	8	226	OHX	1	0
86	6	2073	OHX	2	0
86	1	3889	OHX	1	0
86	1	4072	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2128	OHX	1	0
86	2	2132	OHX	1	0
86	6	2075	OHX	1	0
86	6	2158	OHX	2	0
86	6	2117	OHX	2	0
86	5	3926	OHX	1	0
86	6	2191	OHX	1	0
86	5	4228	OHX	1	0
86	1	3961	OHX	1	0
86	5	4236	OHX	1	0
86	1	3938	OHX	2	0
86	2	2091	OHX	1	0
86	5	4199	OHX	10	0
86	1	3898	OHX	1	0
86	1	3922	OHX	1	0
86	1	4078	OHX	1	0
86	6	2136	OHX	1	0
86	1	4200	OHX	1	0
86	5	4217	OHX	7	0
86	5	3916	OHX	1	0
86	5	4248	OHX	1	0
86	5	4194	OHX	1	0
86	2	2027	OHX	2	0
86	5	4237	OHX	4	0
86	2	2043	OHX	1	0
86	1	4046	OHX	2	0
86	8	225	OHX	1	0
86	2	2156	OHX	3	0
86	2	2090	OHX	4	0
86	3	216	OHX	1	0
86	O7	104	OHX	7	0
86	1	4097	OHX	1	0
86	1	4147	OHX	1	0
86	5	4147	OHX	1	0
86	1	4130	OHX	1	0
86	1	3911	OHX	1	0
86	5	4014	OHX	1	0
86	1	3973	OHX	4	0
86	2	2159	OHX	2	0
86	1	3917	OHX	1	0
86	1	4167	OHX	2	0
86	6	2122	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	4	232	OHX	1	0
86	6	2097	OHX	2	0
86	4	238	OHX	1	0
86	5	4201	OHX	7	0
86	5	4110	OHX	2	0
86	s1	302	OHX	2	0
86	2	2077	OHX	1	0
86	5	4163	OHX	1	0
86	6	2096	OHX	1	0
86	1	4155	OHX	6	0
86	6	2109	OHX	1	0
86	5	4250	OHX	1	0
86	5	3923	OHX	2	0
86	5	4011	OHX	6	0
86	q1	102	OHX	6	0
86	1	3991	OHX	1	0
86	2	2098	OHX	2	0
86	1	4042	OHX	3	0
86	1	4106	OHX	1	0
86	5	4052	OHX	1	0
86	5	4208	OHX	1	0
86	8	228	OHX	4	0
86	2	2148	OHX	1	0
86	1	4171	OHX	7	0
86	6	2088	OHX	1	0
86	6	2187	OHX	1	0
86	5	3933	OHX	1	0
86	5	3965	OHX	1	0
86	8	217	OHX	2	0
86	5	4138	OHX	1	0
86	1	4124	OHX	1	0
86	6	2054	OHX	1	0
86	5	4242	OHX	5	0
86	1	4150	OHX	1	0
86	6	2055	OHX	1	0
86	1	4132	OHX	1	0
86	1	4032	OHX	1	0
86	5	4195	OHX	1	0
86	1	4074	OHX	1	0
86	1	3884	OHX	2	0
86	1	3981	OHX	1	0
86	1	3957	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	4168	OHX	1	0
86	2	2032	OHX	8	0
86	1	4143	OHX	2	0
86	1	4131	OHX	2	0
86	1	4094	OHX	1	0
86	L3	404	OHX	1	0
86	6	2145	OHX	1	0
86	5	4023	OHX	3	0
86	5	4081	OHX	1	0
86	5	4130	OHX	1	0
86	2	2163	OHX	2	0
86	1	4164	OHX	1	0
86	2	2128	OHX	1	0
86	2	2092	OHX	1	0
86	1	4163	OHX	1	0
86	1	4194	OHX	1	0
86	1	4113	OHX	1	0
86	5	3902	OHX	2	0
86	1	3876	OHX	1	0
86	2	2039	OHX	1	0
86	6	2148	OHX	1	0
86	6	2160	OHX	1	0
86	2	2124	OHX	1	0
86	6	2065	OHX	1	0
86	5	4008	OHX	1	0
86	6	2150	OHX	1	0
86	2	2037	OHX	2	0
86	5	4203	OHX	1	0
86	1	3995	OHX	1	0
86	1	4071	OHX	1	0
86	1	4146	OHX	6	0
86	2	2145	OHX	7	0
86	5	3906	OHX	1	0
86	2	2065	OHX	1	0
86	2	2105	OHX	1	0
86	7	217	OHX	6	0
86	2	2164	OHX	1	0
86	2	2025	OHX	1	0
86	2	2045	OHX	6	0
86	6	2102	OHX	1	0
86	1	4192	OHX	1	0
86	2	2036	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	5	3996	OHX	1	0
86	1	4011	OHX	1	0
86	2	2049	OHX	1	0
86	8	227	OHX	6	0
86	1	3937	OHX	1	0
86	5	3957	OHX	1	0
86	5	4054	OHX	1	0
86	5	3984	OHX	2	0
86	5	4239	OHX	1	0
86	6	2153	OHX	2	0
86	5	4160	OHX	1	0
86	5	4185	OHX	1	0
86	5	4003	OHX	1	0
86	5	4096	OHX	1	0
86	5	4079	OHX	1	0
86	1	4095	OHX	1	0
86	5	4214	OHX	1	0
86	1	4083	OHX	4	0
86	5	3958	OHX	3	0
86	1	4041	OHX	2	0
86	5	4013	OHX	1	0
86	2	2138	OHX	1	0
86	2	2076	OHX	1	0
86	6	2146	OHX	7	0
86	4	228	OHX	1	0
86	5	3960	OHX	1	0
86	4	231	OHX	1	0
86	2	2134	OHX	1	0
86	5	4193	OHX	1	0
86	1	3999	OHX	1	0
86	5	3948	OHX	1	0
86	1	4159	OHX	1	0
86	5	3974	OHX	4	0
86	n9	101	OHX	1	0
86	5	3983	OHX	1	0
86	2	2071	OHX	1	0
86	2	2024	OHX	1	0
86	m0	301	OHX	2	0
86	6	2126	OHX	3	0
86	2	2046	OHX	1	0
86	4	222	OHX	1	0
86	1	3954	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	6	2071	OHX	1	0
86	5	4182	OHX	1	0
86	D9	102	OHX	1	0
86	1	4117	OHX	1	0
86	4	225	OHX	1	0
86	6	2123	OHX	2	0
86	5	4144	OHX	1	0
86	6	2135	OHX	1	0
86	6	2049	OHX	1	0
86	2	2100	OHX	6	0
86	1	3928	OHX	1	0
86	6	2070	OHX	1	0
86	5	4200	OHX	7	0
86	1	4084	OHX	3	0
86	o3	202	OHX	1	0
86	2	2170	OHX	1	0
86	1	4121	OHX	1	0
86	4	236	OHX	1	0
86	2	2096	OHX	7	0
86	2	2109	OHX	1	0
86	5	4111	OHX	1	0
86	2	2054	OHX	1	0
86	1	4098	OHX	2	0
86	6	2068	OHX	1	0
86	5	4102	OHX	2	0
86	6	2138	OHX	1	0
86	1	4208	OHX	1	0
86	1	3966	OHX	1	0
86	5	4159	OHX	2	0
86	2	2060	OHX	1	0
86	5	4173	OHX	1	0
86	1	4069	OHX	1	0
86	d4	201	OHX	1	0
86	5	4223	OHX	1	0
86	7	218	OHX	1	0
86	5	4192	OHX	3	0
86	2	2074	OHX	1	0
86	1	4187	OHX	1	0
86	c5	201	OHX	1	0
86	6	2137	OHX	2	0
86	1	3930	OHX	2	0
86	1	3880	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3944	OHX	1	0
86	Q2	503	OHX	2	0
86	1	3868	OHX	2	0
86	6	2074	OHX	1	0
86	5	3943	OHX	7	0
86	1	3909	OHX	2	0
86	1	3960	OHX	1	0
86	5	4078	OHX	1	0
86	m7	206	OHX	1	0
86	2	2140	OHX	1	0
86	2	2107	OHX	1	0
86	5	4181	OHX	1	0
86	1	4073	OHX	1	0
86	5	4090	OHX	7	0
86	2	2176	OHX	1	0
86	2	2087	OHX	1	0
86	1	4206	OHX	1	0
86	6	2142	OHX	1	0
86	1	3913	OHX	1	0
86	6	2183	OHX	1	0
86	1	3882	OHX	2	0
86	5	4184	OHX	1	0
86	6	2108	OHX	2	0
86	5	4168	OHX	1	0
86	8	223	OHX	1	0
86	5	4226	OHX	2	0
86	6	2156	OHX	1	0
86	1	4197	OHX	6	0
86	1	4108	OHX	1	0
86	1	3948	OHX	1	0
86	1	3870	OHX	1	0
86	1	3963	OHX	1	0
86	2	2136	OHX	2	0
86	1	3890	OHX	1	0
86	1	4179	OHX	1	0
86	N1	201	OHX	1	0
86	6	2179	OHX	2	0
86	1	4162	OHX	6	0
86	5	4002	OHX	4	0
86	1	4065	OHX	1	0
86	1	3878	OHX	1	0
86	5	4202	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2058	OHX	1	0
86	2	2068	OHX	1	0
86	2	2085	OHX	2	0
86	5	4119	OHX	1	0
86	6	2125	OHX	6	0
86	5	4101	OHX	1	0
86	6	2185	OHX	1	0
86	6	2181	OHX	1	0
86	5	3992	OHX	3	0
86	6	2130	OHX	2	0
86	2	2147	OHX	1	0
86	5	3987	OHX	1	0
86	5	4140	OHX	1	0
86	1	3931	OHX	1	0
87	2	2178	PCY	5	0
86	1	3923	OHX	1	0
86	6	2086	OHX	1	0
86	c3	201	OHX	2	0
86	1	4054	OHX	6	0
86	2	2122	OHX	3	0
86	1	3994	OHX	1	0
86	6	2110	OHX	1	0
86	1	4166	OHX	2	0
86	5	3942	OHX	1	0
86	2	2052	OHX	1	0
86	O3	202	OHX	1	0
86	o7	503	OHX	3	0
86	5	4066	OHX	7	0
86	l4	402	OHX	1	0
86	1	4079	OHX	3	0
86	4	230	OHX	1	0
86	1	3903	OHX	1	0
86	1	4047	OHX	1	0
86	5	4131	OHX	1	0
86	5	4055	OHX	6	0
86	5	4092	OHX	1	0
86	1	4004	OHX	2	0
86	5	4051	OHX	1	0
86	6	2121	OHX	1	0
86	5	4021	OHX	6	0
86	1	4008	OHX	1	0
86	1	4198	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	1	3904	OHX	1	0
86	2	2112	OHX	2	0
86	5	4137	OHX	1	0
86	1	3974	OHX	1	0
86	6	2189	OHX	1	0
86	1	3915	OHX	1	0
86	1	4059	OHX	1	0
86	5	4143	OHX	6	0
86	1	3936	OHX	6	0
86	6	2059	OHX	6	0
86	2	2141	OHX	1	0
86	5	3938	OHX	1	0
86	5	4007	OHX	1	0
86	1	4134	OHX	1	0
86	4	234	OHX	2	0
86	1	4182	OHX	1	0
86	5	3980	OHX	1	0
86	2	2078	OHX	1	0
86	1	4195	OHX	1	0
86	5	4033	OHX	1	0
86	1	4087	OHX	1	0
86	M7	205	OHX	1	0
86	m0	302	OHX	1	0
86	1	4193	OHX	1	0
86	C5	201	OHX	2	0
86	5	4086	OHX	1	0
86	5	4074	OHX	1	0
86	1	4055	OHX	3	0
86	1	4006	OHX	1	0
86	1	4044	OHX	1	0
86	5	4205	OHX	1	0
86	1	3983	OHX	1	0
86	5	4099	OHX	1	0
86	5	3911	OHX	2	0
86	1	4145	OHX	1	0
86	5	4246	OHX	1	0
86	3	226	OHX	1	0
86	2	2072	OHX	1	0
86	5	4061	OHX	1	0
87	6	2204	PCY	1	0
86	2	2097	OHX	2	0
86	6	2124	OHX	1	0

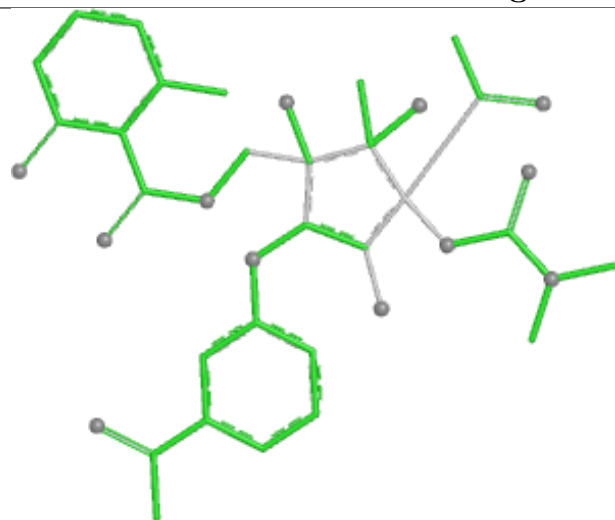
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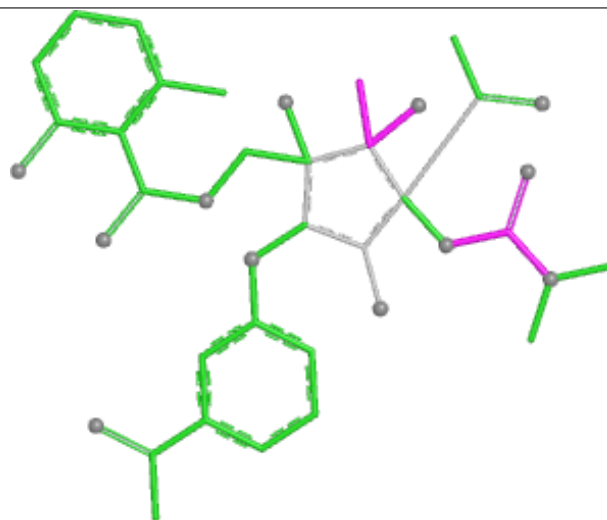
Mol	Chain	Res	Type	Clashes	Symm-Clashes
86	2	2048	OHX	2	0
86	5	3907	OHX	3	0
86	5	3925	OHX	1	0
86	1	4025	OHX	1	0
86	1	4138	OHX	3	0
86	n9	102	OHX	1	0
86	5	3973	OHX	2	0
86	2	2083	OHX	1	0
86	1	4015	OHX	1	0
86	1	4139	OHX	2	0
86	2	2094	OHX	1	0
86	1	3943	OHX	1	0
86	5	3949	OHX	1	0
86	6	2162	OHX	1	0
86	5	4174	OHX	1	0
86	5	4219	OHX	1	0
86	5	4105	OHX	2	0
86	5	3959	OHX	2	0
86	5	4027	OHX	1	0
86	5	4190	OHX	3	0
86	2	2066	OHX	1	0
86	s9	201	OHX	2	0
86	5	3908	OHX	1	0
86	1	3872	OHX	1	0
86	2	2110	OHX	7	0

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

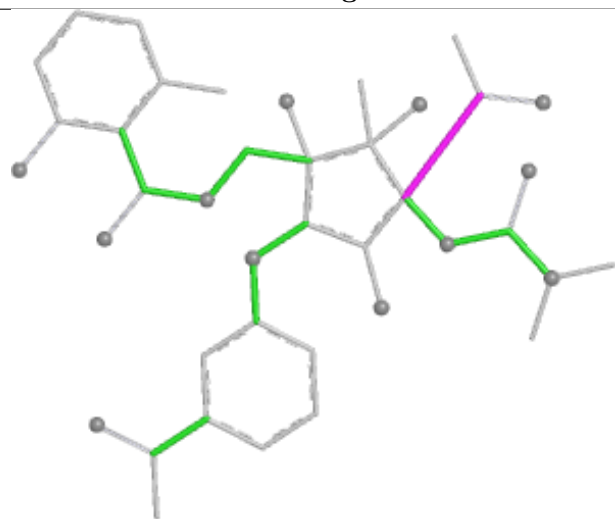
Ligand PCY 2 2178



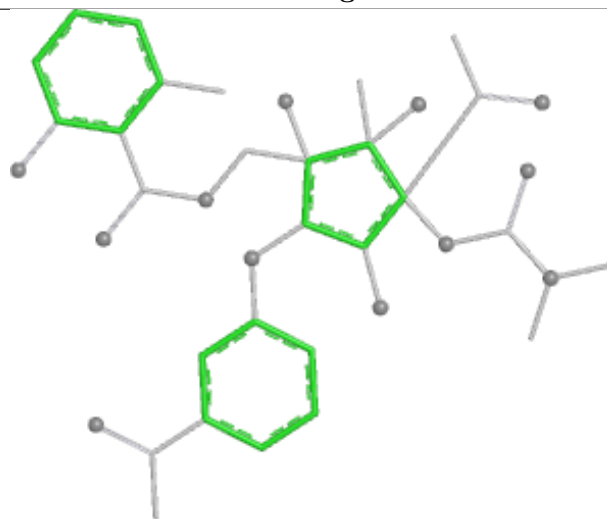
Bond lengths



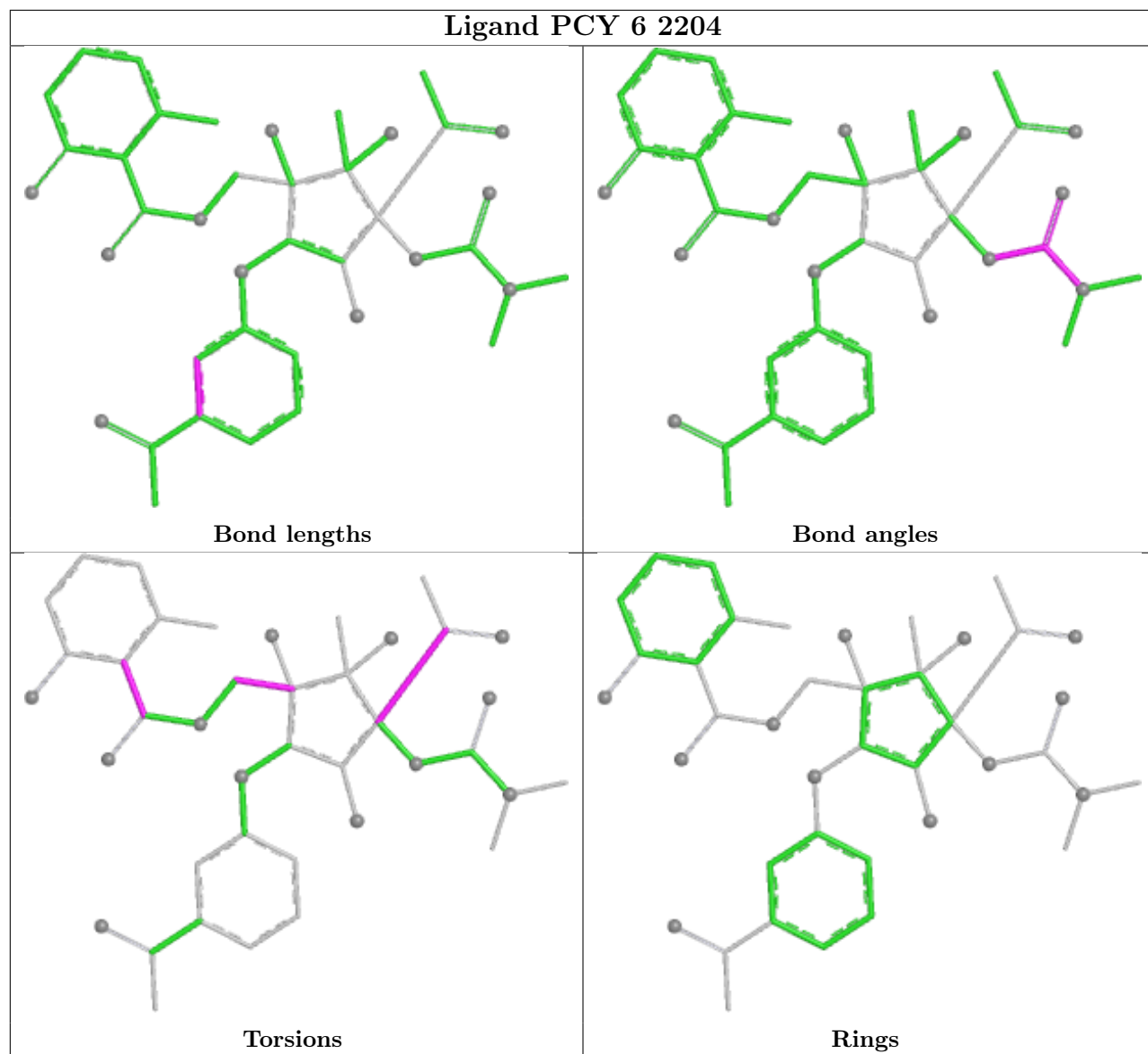
Bond angles



Torsions



Rings



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%)	0.25	55 (3%)	51	32	54, 88, 172, 274	0
1	6	1795/1800 (99%)	0.11	58 (3%)	50	31	41, 74, 181, 278	0
2	S0	206/251 (82%)	0.60	10 (4%)	35	22	90, 107, 123, 157	0
2	s0	206/251 (82%)	0.36	5 (2%)	59	40	71, 91, 109, 115	0
3	S1	214/254 (84%)	0.93	24 (11%)	10	7	92, 120, 146, 154	0
3	s1	216/254 (85%)	0.24	7 (3%)	50	31	67, 85, 111, 126	0
4	S2	217/253 (85%)	0.37	7 (3%)	50	31	68, 86, 104, 124	0
4	s2	217/253 (85%)	0.32	9 (4%)	41	25	54, 71, 92, 113	0
5	S3	223/239 (93%)	0.45	10 (4%)	38	24	77, 90, 128, 147	0
5	s3	223/239 (93%)	0.67	16 (7%)	21	14	73, 105, 129, 136	0
6	S4	260/260 (100%)	0.24	2 (0%)	82	67	63, 87, 102, 127	0
6	s4	260/260 (100%)	0.06	2 (0%)	82	67	54, 71, 90, 129	0
7	S5	206/224 (91%)	0.90	21 (10%)	12	8	94, 115, 135, 147	0
7	s5	206/224 (91%)	0.48	10 (4%)	35	22	65, 91, 121, 140	0
8	S6	226/236 (95%)	0.71	23 (10%)	12	8	64, 103, 123, 151	0
8	s6	218/236 (92%)	0.23	8 (3%)	45	28	50, 78, 105, 136	0
9	S7	184/189 (97%)	0.58	10 (5%)	31	20	86, 115, 149, 159	0
9	s7	186/189 (98%)	0.47	8 (4%)	40	24	68, 100, 138, 150	0
10	S8	188/200 (94%)	0.33	6 (3%)	50	31	56, 71, 112, 133	0
10	s8	188/200 (94%)	0.43	6 (3%)	50	31	45, 64, 107, 123	0
11	S9	185/196 (94%)	0.55	8 (4%)	40	24	80, 96, 132, 165	0
11	s9	185/196 (94%)	0.39	6 (3%)	50	31	63, 77, 116, 147	0
12	C0	96/105 (91%)	0.48	6 (6%)	26	17	82, 105, 138, 158	0
12	c0	96/105 (91%)	1.03	17 (17%)	4	3	96, 131, 153, 178	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	C1	155/155 (100%)	0.31	8 (5%)	33	21	56, 70, 131, 141	0
13	c1	146/155 (94%)	0.38	11 (7%)	20	13	47, 61, 100, 114	0
14	C2	124/142 (87%)	0.89	12 (9%)	13	9	134, 149, 169, 186	0
14	c2	124/142 (87%)	1.48	28 (22%)	2	2	177, 199, 225, 235	0
15	C3	150/150 (100%)	0.37	5 (3%)	49	30	64, 84, 102, 111	0
15	c3	150/150 (100%)	0.28	4 (2%)	56	36	56, 72, 91, 114	0
16	C4	127/136 (93%)	0.82	11 (8%)	16	11	66, 109, 128, 132	0
16	c4	128/136 (94%)	0.19	2 (1%)	70	51	51, 80, 92, 103	0
17	C5	124/141 (87%)	0.54	3 (2%)	59	40	81, 100, 142, 154	0
17	c5	135/141 (95%)	0.75	17 (12%)	8	6	73, 102, 139, 202	0
18	C6	141/142 (99%)	0.63	8 (5%)	29	19	80, 104, 112, 117	0
18	c6	142/142 (100%)	0.79	15 (10%)	11	8	64, 85, 104, 132	0
19	C7	120/136 (88%)	0.66	6 (5%)	34	22	89, 106, 134, 140	0
19	c7	117/136 (86%)	0.60	6 (5%)	33	21	77, 93, 118, 122	0
20	C8	145/145 (100%)	0.72	6 (4%)	41	25	79, 106, 131, 142	0
20	c8	145/145 (100%)	0.18	2 (1%)	73	54	70, 85, 110, 129	0
21	C9	143/143 (100%)	0.74	12 (8%)	17	11	88, 106, 124, 137	0
21	c9	143/143 (100%)	0.12	0	100	100	61, 77, 100, 124	0
22	D0	107/120 (89%)	0.77	6 (5%)	30	19	73, 108, 153, 160	0
22	d0	110/120 (91%)	0.85	8 (7%)	21	13	67, 107, 155, 192	0
23	D1	87/87 (100%)	0.35	3 (3%)	48	30	87, 94, 114, 129	0
23	d1	87/87 (100%)	-0.04	0	100	100	65, 76, 101, 116	0
24	D2	129/129 (100%)	0.25	2 (1%)	70	51	67, 80, 88, 100	0
24	d2	129/129 (100%)	-0.10	1 (0%)	82	67	52, 61, 69, 78	0
25	D3	144/144 (100%)	0.38	4 (2%)	55	35	57, 66, 77, 93	0
25	d3	144/144 (100%)	-0.09	2 (1%)	73	54	45, 50, 65, 83	0
26	D4	134/134 (100%)	0.51	4 (2%)	52	33	75, 104, 123, 135	0
26	d4	134/134 (100%)	0.25	7 (5%)	33	21	56, 81, 98, 127	0
27	D5	70/107 (65%)	0.76	4 (5%)	29	19	110, 127, 137, 141	0
27	d5	69/107 (64%)	0.41	1 (1%)	73	54	80, 107, 126, 134	0
28	D6	97/97 (100%)	0.91	10 (10%)	12	8	72, 88, 136, 142	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	d6	97/97 (100%)	0.22	2 (2%) 63 43	56, 68, 99, 109	0
29	D7	81/81 (100%)	0.67	6 (7%) 20 13	81, 95, 140, 146	0
29	d7	81/81 (100%)	0.61	5 (6%) 26 17	66, 84, 135, 138	0
30	D8	63/66 (95%)	0.92	6 (9%) 14 9	105, 126, 146, 166	0
30	d8	63/66 (95%)	0.40	2 (3%) 50 31	82, 101, 121, 130	0
31	D9	53/55 (96%)	0.39	1 (1%) 66 46	74, 81, 107, 116	0
31	d9	53/55 (96%)	0.78	5 (9%) 14 9	73, 81, 128, 144	0
32	E0	60/60 (100%)	0.39	1 (1%) 69 49	64, 96, 136, 145	0
33	E1	71/76 (93%)	1.32	12 (16%) 4 3	108, 129, 150, 160	0
33	e1	76/76 (100%)	1.81	21 (27%) 1 1	134, 164, 176, 179	0
34	SR	318/318 (100%)	0.71	23 (7%) 21 14	69, 113, 140, 159	0
34	sR	318/318 (100%)	0.58	19 (5%) 27 17	91, 113, 135, 158	0
35	SM	159/273 (58%)	0.83	22 (13%) 6 5	63, 90, 144, 149	0
35	sM	104/273 (38%)	1.13	22 (21%) 2 2	71, 102, 185, 195	0
36	1	3149/3396 (92%)	-0.17	77 (2%) 59 40	29, 53, 141, 267	0
36	5	3150/3396 (92%)	-0.23	66 (2%) 63 43	28, 52, 128, 273	0
37	3	121/121 (100%)	-0.24	0 100 100	42, 72, 90, 96	0
37	7	121/121 (100%)	-0.45	1 (0%) 82 67	34, 55, 67, 75	0
38	4	158/158 (100%)	-0.25	5 (3%) 50 31	37, 54, 98, 137	0
38	8	158/158 (100%)	-0.17	6 (3%) 44 27	41, 64, 108, 133	0
39	L2	252/253 (99%)	-0.12	3 (1%) 76 58	33, 48, 67, 74	0
39	l2	252/253 (99%)	0.01	3 (1%) 76 58	36, 54, 76, 89	0
40	L3	386/386 (100%)	-0.01	7 (1%) 67 48	34, 57, 72, 117	0
40	l3	386/386 (100%)	-0.31	3 (0%) 82 67	28, 41, 56, 99	0
41	L4	361/361 (100%)	-0.20	2 (0%) 85 73	30, 45, 63, 77	0
41	l4	361/361 (100%)	-0.04	2 (0%) 85 73	36, 53, 74, 91	0
42	L5	296/296 (100%)	0.27	7 (2%) 59 40	52, 80, 102, 126	0
42	l5	294/296 (99%)	-0.06	2 (0%) 84 69	42, 59, 88, 138	0
43	L6	156/175 (89%)	-0.11	0 100 100	39, 48, 71, 93	0
43	l6	157/175 (89%)	0.02	2 (1%) 75 55	42, 51, 73, 90	0
44	L7	222/243 (91%)	-0.26	0 100 100	34, 42, 79, 127	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
44	l7	223/243 (91%)	-0.30	0	100	100	30, 40, 85, 136	0
45	L8	233/255 (91%)	0.23	8 (3%)	48	30	54, 70, 111, 124	0
45	l8	231/255 (90%)	0.40	9 (3%)	43	27	69, 84, 113, 121	0
46	L9	191/191 (100%)	0.07	0	100	100	52, 66, 82, 100	0
46	l9	191/191 (100%)	-0.25	1 (0%)	87	76	38, 45, 69, 107	0
47	M0	211/220 (95%)	-0.01	7 (3%)	49	30	40, 58, 93, 116	0
47	m0	213/220 (96%)	-0.02	9 (4%)	40	25	36, 54, 82, 100	0
48	M1	169/173 (97%)	0.27	4 (2%)	59	40	61, 85, 101, 114	0
48	m1	169/173 (97%)	0.03	3 (1%)	67	48	44, 65, 77, 93	0
49	M3	193/198 (97%)	-0.13	4 (2%)	63	43	34, 54, 100, 125	0
49	m3	194/198 (97%)	0.26	5 (2%)	57	37	45, 66, 110, 137	0
50	M4	136/137 (99%)	-0.19	1 (0%)	84	69	45, 53, 68, 80	0
50	m4	137/137 (100%)	-0.23	2 (1%)	72	52	36, 44, 65, 79	0
51	M5	203/203 (100%)	0.02	2 (0%)	79	63	33, 46, 58, 65	0
51	m5	203/203 (100%)	0.15	2 (0%)	79	63	43, 58, 72, 77	0
52	M6	197/198 (99%)	-0.21	2 (1%)	79	63	35, 44, 65, 69	0
52	m6	197/198 (99%)	-0.24	1 (0%)	87	76	28, 33, 62, 70	0
53	M7	183/183 (100%)	0.07	8 (4%)	39	24	37, 45, 123, 148	0
53	m7	155/183 (84%)	-0.27	0	100	100	32, 41, 57, 87	0
54	M8	185/185 (100%)	0.05	11 (5%)	28	18	36, 45, 59, 72	0
54	m8	185/185 (100%)	0.11	7 (3%)	44	27	39, 51, 60, 67	0
55	M9	188/188 (100%)	0.40	11 (5%)	28	18	50, 67, 157, 165	0
55	m9	188/188 (100%)	0.26	4 (2%)	63	43	46, 62, 130, 144	0
56	N0	172/172 (100%)	-0.27	2 (1%)	76	58	43, 51, 66, 73	0
56	n0	172/172 (100%)	-0.32	2 (1%)	76	58	32, 40, 50, 67	0
57	N1	159/159 (100%)	-0.10	2 (1%)	75	55	41, 51, 93, 101	0
57	n1	159/159 (100%)	-0.06	3 (1%)	66	46	36, 44, 86, 97	0
58	N2	100/120 (83%)	0.61	6 (6%)	27	17	81, 100, 116, 131	0
58	n2	98/120 (81%)	0.22	1 (1%)	79	63	72, 88, 103, 109	0
59	N3	136/136 (100%)	-0.00	2 (1%)	72	52	40, 51, 67, 82	0
59	n3	136/136 (100%)	-0.26	2 (1%)	72	52	28, 40, 56, 63	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
60	N4	98/155 (63%)	1.01	24 (24%) 2 2	52, 68, 167, 180	0
60	n4	135/155 (87%)	0.58	8 (5%) 28 18	40, 87, 138, 158	0
61	N5	121/141 (85%)	0.12	4 (3%) 49 30	46, 61, 81, 115	0
61	n5	120/141 (85%)	0.17	4 (3%) 49 30	52, 67, 89, 96	0
62	N6	126/126 (100%)	-0.05	3 (2%) 59 40	40, 55, 68, 85	0
62	n6	126/126 (100%)	0.10	2 (1%) 70 51	49, 64, 81, 89	0
63	N7	135/135 (100%)	0.17	0 100 100	70, 85, 99, 108	0
63	n7	135/135 (100%)	0.38	3 (2%) 62 42	78, 96, 117, 126	0
64	N8	148/148 (100%)	-0.04	2 (1%) 73 54	27, 44, 72, 84	0
64	n8	148/148 (100%)	-0.18	0 100 100	33, 53, 76, 80	0
65	N9	58/58 (100%)	0.10	1 (1%) 69 49	39, 55, 105, 116	0
65	n9	58/58 (100%)	0.14	0 100 100	37, 56, 83, 92	0
66	O0	97/104 (93%)	0.08	3 (3%) 51 32	68, 78, 111, 117	0
66	o0	100/104 (96%)	0.26	3 (3%) 52 33	74, 85, 115, 124	0
67	O1	109/112 (97%)	0.07	1 (0%) 81 64	47, 61, 102, 118	0
67	o1	109/112 (97%)	-0.07	0 100 100	39, 52, 94, 118	0
68	O2	127/129 (98%)	-0.23	2 (1%) 70 51	28, 42, 55, 76	0
68	o2	127/129 (98%)	-0.04	4 (3%) 51 32	30, 49, 66, 88	0
69	O3	106/106 (100%)	-0.27	0 100 100	34, 41, 67, 78	0
69	o3	106/106 (100%)	-0.12	1 (0%) 81 64	31, 39, 71, 87	0
70	O4	112/120 (93%)	0.52	5 (4%) 38 24	47, 66, 111, 123	0
70	o4	112/120 (93%)	0.34	2 (1%) 67 48	46, 70, 116, 128	0
71	O5	119/119 (100%)	0.07	3 (2%) 58 39	43, 65, 71, 75	0
71	o5	119/119 (100%)	0.05	2 (1%) 69 49	56, 71, 83, 88	0
72	O6	99/99 (100%)	0.08	2 (2%) 65 45	49, 63, 97, 118	0
72	o6	99/99 (100%)	0.23	2 (2%) 65 45	61, 75, 99, 124	0
73	O7	87/87 (100%)	0.19	2 (2%) 61 41	33, 41, 79, 106	0
73	o7	87/87 (100%)	0.09	2 (2%) 61 41	41, 46, 85, 122	0
74	O8	77/77 (100%)	0.26	1 (1%) 75 55	72, 88, 110, 122	0
74	o8	77/77 (100%)	0.42	1 (1%) 75 55	75, 92, 108, 113	0
75	O9	50/50 (100%)	-0.06	1 (2%) 65 45	43, 49, 55, 61	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	o9	50/50 (100%)	-0.08	0 100 100	51, 54, 66, 72	0
76	Q0	52/52 (100%)	-0.11	0 100 100	49, 59, 85, 96	0
76	q0	52/52 (100%)	-0.44	1 (1%) 66 46	34, 40, 54, 66	0
77	Q1	25/25 (100%)	-0.05	0 100 100	52, 55, 59, 67	0
77	q1	25/25 (100%)	-0.23	0 100 100	43, 48, 62, 69	0
78	Q2	105/105 (100%)	-0.01	1 (0%) 79 63	39, 56, 86, 124	0
78	q2	105/105 (100%)	-0.08	1 (0%) 79 63	45, 57, 87, 120	0
79	Q3	91/91 (100%)	0.03	1 (1%) 78 61	42, 54, 74, 89	0
79	q3	91/91 (100%)	-0.01	1 (1%) 78 61	40, 55, 74, 84	0
80	e0	62/62 (100%)	0.26	0 100 100	59, 77, 119, 141	0
81	m2	0/160	-	-	-	-
82	p0	143/311 (45%)	0.66	8 (5%) 30 19	88, 107, 193, 202	0
83	p1	0/47	-	-	-	-
84	p2	0/46	-	-	-	-
All	All	33063/35346 (93%)	0.14	1097 (3%) 49 30	27, 68, 134, 278	0

All (1097) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
36	5	2873	U	11.4
33	e1	77	GLY	8.8
33	e1	85	TYR	8.6
1	2	261	U	8.2
33	e1	80	ARG	8.1
60	N4	86	SER	7.9
1	2	913	G	7.3
36	1	2205	U	7.0
36	5	2874	G	6.9
7	s5	37	GLN	6.7
33	E1	86	THR	6.7
33	E1	87	THR	6.7
36	1	2873	U	6.6
1	2	260	U	6.5
36	5	1562	C	6.4
73	O7	88	ALA	6.3
60	N4	88	ASP	6.2
36	1	2404	A	6.1
4	s2	90	THR	5.9

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Mol	Chain	Res	Type	RSRZ
82	p0	192	ASP	5.8
17	c5	4	ALA	5.7
36	1	2874	G	5.7
5	S3	179	GLN	5.7
33	E1	85	TYR	5.5
1	2	238	U	5.5
38	4	158	U	5.5
60	N4	85	ALA	5.5
54	m8	156	GLY	5.5
14	c2	123	VAL	5.5
36	5	2404	A	5.4
9	s7	108	GLN	5.3
4	s2	91	ARG	5.2
1	6	794	U	5.2
1	6	239	C	5.2
60	N4	76	VAL	5.2
59	n3	3	GLY	5.1
73	o7	88	ALA	5.0
36	1	2522	G	5.0
7	S5	37	GLN	5.0
7	S5	75	GLY	4.9
33	e1	84	VAL	4.8
1	2	754	A	4.8
36	1	1581	C	4.8
3	S1	140	ILE	4.7
36	1	1095	U	4.7
1	2	793	A	4.6
35	SM	19	VAL	4.6
1	6	754	A	4.5
18	c6	2	SER	4.5
60	n4	97	LYS	4.5
7	S5	36	ALA	4.5
8	S6	78	THR	4.5
36	1	1579	C	4.4
35	SM	87	THR	4.4
3	S1	207	LEU	4.4
30	D8	21	SER	4.4
34	sR	121	MET	4.4
60	N4	87	LEU	4.4
22	D0	19	ILE	4.3
7	S5	86	GLN	4.3
45	l8	246	MET	4.3

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Mol	Chain	Res	Type	RSRZ
58	N2	89	LEU	4.3
2	s0	40	ALA	4.3
36	1	2401	A	4.3
36	5	1580	A	4.3
1	6	240	U	4.3
1	6	1285	U	4.3
54	M8	156	GLY	4.3
54	m8	159	LYS	4.2
36	1	1762	C	4.2
33	e1	79	LYS	4.2
18	c6	121	SER	4.2
35	SM	134	ASP	4.1
8	S6	73	ILE	4.1
35	SM	85	SER	4.1
60	N4	90	ILE	4.0
14	c2	28	LEU	4.0
36	1	2206	G	4.0
7	s5	68	ILE	4.0
34	SR	115	ILE	4.0
1	6	678	A	4.0
11	s9	2	PRO	4.0
20	C8	127	HIS	4.0
36	5	3275	U	4.0
3	S1	156	ALA	4.0
1	2	676	G	4.0
1	2	623	A	4.0
56	N0	1	MET	4.0
2	s0	110	TYR	4.0
1	6	493	U	4.0
33	e1	78	LYS	4.0
36	5	439	C	4.0
14	c2	29	LYS	4.0
31	d9	7	TRP	3.9
18	c6	138	PHE	3.9
50	m4	8	LYS	3.9
60	N4	89	LEU	3.9
36	5	2403	G	3.9
36	5	1579	C	3.9
36	5	1582	C	3.9
33	E1	93	HIS	3.9
36	5	620	U	3.9
3	S1	54	LEU	3.9

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Mol	Chain	Res	Type	RSRZ
36	1	1349	G	3.9
36	5	1560	G	3.9
53	M7	184	ALA	3.9
35	SM	88	ARG	3.9
11	S9	2	PRO	3.9
9	s7	52	ALA	3.9
1	6	1192	C	3.9
1	6	1491	U	3.9
53	M7	182	ILE	3.9
5	s3	145	ALA	3.9
36	1	2507	C	3.8
1	6	75	U	3.8
13	c1	3	THR	3.8
54	m8	153	PHE	3.8
34	sR	141	LEU	3.8
15	C3	15	ALA	3.8
33	e1	145	HIS	3.8
1	6	679	U	3.8
36	1	252	U	3.8
38	4	82	U	3.8
64	N8	37	GLY	3.8
18	c6	114	ARG	3.8
22	D0	67	THR	3.8
36	5	2871	G	3.8
9	s7	109	VAL	3.8
18	c6	19	VAL	3.8
13	c1	144	ALA	3.7
36	5	3278	C	3.7
35	sM	23	LYS	3.7
3	S1	142	PHE	3.7
1	2	1370	U	3.7
53	M7	165	VAL	3.7
36	5	3154	C	3.7
23	D1	10	GLU	3.7
7	S5	84	LYS	3.7
54	M8	155	MET	3.7
8	s6	88	ARG	3.7
35	SM	160	ASN	3.7
1	2	320	U	3.7
54	m8	154	GLY	3.7
5	S3	148	LYS	3.7
1	2	262	U	3.7

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Mol	Chain	Res	Type	RSRZ
38	8	81	U	3.7
33	e1	147	VAL	3.7
33	e1	90	LYS	3.7
12	c0	84	GLU	3.6
36	1	2207	A	3.6
36	5	2971	A	3.6
51	M5	22	LEU	3.6
55	M9	78	TYR	3.6
60	N4	95	SER	3.6
49	m3	183	ARG	3.6
17	c5	135	THR	3.6
47	m0	111	LEU	3.6
36	1	2954	U	3.6
36	5	2875	U	3.6
8	s6	166	GLU	3.6
8	s6	169	TYR	3.6
3	S1	121	ILE	3.6
60	n4	84	GLY	3.6
1	2	792	U	3.6
36	5	1103	A	3.5
16	C4	15	GLY	3.5
60	N4	92	GLU	3.5
1	2	494	U	3.5
36	1	1763	U	3.5
17	C5	104	GLN	3.5
56	N0	138	GLN	3.5
53	M7	161	ALA	3.5
1	6	677	G	3.5
36	5	3276	G	3.5
71	O5	120	ALA	3.5
7	S5	83	ARG	3.5
67	O1	79	ARG	3.5
12	c0	98	THR	3.5
18	C6	132	LYS	3.5
45	l8	122	LYS	3.5
17	c5	136	SER	3.5
47	m0	221	ALA	3.5
8	S6	147	LEU	3.5
14	C2	136	ILE	3.5
4	s2	208	GLU	3.5
35	SM	9	GLY	3.5
17	c5	133	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
34	sR	120	SER	3.5
36	5	1017	C	3.5
8	S6	163	THR	3.4
13	C1	3	THR	3.4
34	SR	78	ALA	3.4
14	c2	105	LYS	3.4
36	1	1952	G	3.4
7	s5	79	ASN	3.4
26	D4	134	ALA	3.4
1	6	1193	A	3.4
33	E1	84	VAL	3.4
72	o6	11	LEU	3.4
4	S2	163	GLY	3.4
82	p0	184	GLY	3.4
12	C0	89	ALA	3.4
1	6	662	U	3.4
35	sM	156	ASN	3.4
35	SM	153	ASP	3.4
55	M9	85	ARG	3.4
1	2	1371	A	3.4
1	6	793	A	3.4
34	SR	12	THR	3.4
36	1	1103	A	3.4
59	n3	2	SER	3.4
18	c6	11	GLY	3.4
60	N4	81	PRO	3.4
14	c2	30	VAL	3.3
14	c2	59	LEU	3.3
18	c6	3	ALA	3.3
18	c6	142	TYR	3.3
54	M8	154	GLY	3.3
34	sR	136	ILE	3.3
1	2	677	G	3.3
36	1	2403	G	3.3
9	s7	187	SER	3.3
34	SR	11	GLY	3.3
49	m3	195	ALA	3.3
1	6	229	U	3.3
36	1	3319	U	3.3
38	8	115	C	3.3
20	c8	17	LEU	3.3
34	SR	118	LYS	3.3

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Mol	Chain	Res	Type	RSRZ
28	D6	20	PRO	3.3
54	M8	159	LYS	3.3
17	c5	7	ALA	3.3
33	e1	152	ALA	3.3
57	n1	86	GLU	3.3
28	D6	29	SER	3.3
1	2	794	U	3.3
36	5	2872	A	3.3
3	S1	141	ALA	3.3
55	M9	72	GLU	3.3
62	N6	88	GLU	3.3
47	M0	220	GLN	3.2
12	C0	96	ASN	3.2
19	c7	97	ASN	3.2
36	5	437	G	3.2
36	1	2772	C	3.2
73	o7	87	SER	3.2
14	c2	22	VAL	3.2
30	D8	44	VAL	3.2
20	C8	146	ALA	3.2
20	C8	130	GLY	3.2
35	SM	89	ARG	3.2
36	5	3277	U	3.2
36	1	2400	G	3.2
36	5	440	A	3.2
82	p0	209	LEU	3.2
18	C6	17	THR	3.2
22	d0	78	THR	3.2
36	1	1563	C	3.2
8	S6	75	LEU	3.2
8	S6	156	PHE	3.2
33	e1	88	PRO	3.2
53	M7	166	VAL	3.2
35	SM	11	ASP	3.1
36	1	2996	U	3.1
10	s8	179	CYS	3.1
7	S5	25	LEU	3.1
9	S7	41	LEU	3.1
8	S6	153	VAL	3.1
34	SR	79	TYR	3.1
36	1	1574	C	3.1
36	5	1581	C	3.1

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Mol	Chain	Res	Type	RSRZ
35	SM	68	ARG	3.1
56	n0	138	GLN	3.1
12	c0	89	ALA	3.1
26	d4	134	ALA	3.1
47	M0	218	ALA	3.1
26	D4	135	ASP	3.1
29	d7	21	LEU	3.1
14	c2	126	TRP	3.1
1	6	242	U	3.1
7	S5	66	GLN	3.1
61	n5	23	ALA	3.1
70	O4	2	ALA	3.1
36	1	2821	C	3.1
36	5	1556	C	3.1
47	m0	186	GLU	3.1
7	S5	41	LYS	3.1
21	C9	36	ILE	3.1
36	1	2508	U	3.1
36	1	2971	A	3.1
38	8	80	A	3.1
6	s4	208	VAL	3.1
13	c1	42	PHE	3.1
34	SR	186	PHE	3.1
15	C3	16	ILE	3.1
60	N4	63	ILE	3.1
6	S4	207	LEU	3.1
16	C4	137	LEU	3.1
54	m8	158	HIS	3.1
36	1	1815	U	3.1
61	n5	24	LEU	3.1
31	d9	6	VAL	3.1
55	M9	177	VAL	3.1
14	c2	21	GLU	3.1
16	c4	92	LYS	3.1
21	C9	44	GLU	3.1
36	1	2402	A	3.1
2	S0	207	PRO	3.1
4	S2	154	LEU	3.0
5	s3	144	ALA	3.0
8	S6	77	LEU	3.0
7	S5	152	GLY	3.0
28	D6	2	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
5	s3	3	ALA	3.0
7	S5	76	ARG	3.0
47	m0	112	GLN	3.0
1	6	1159	C	3.0
14	c2	63	VAL	3.0
60	n4	92	GLU	3.0
3	S1	164	ILE	3.0
15	c3	16	ILE	3.0
54	M8	157	PRO	3.0
13	c1	5	LEU	3.0
33	e1	95	HIS	3.0
11	s9	10	LYS	3.0
59	N3	3	GLY	3.0
34	sR	72	THR	3.0
11	s9	33	GLU	3.0
29	D7	49	HIS	3.0
60	N4	77	LYS	3.0
3	S1	157	GLN	3.0
21	C9	71	VAL	3.0
7	s5	43	PHE	3.0
22	d0	67	THR	3.0
39	l2	252	THR	3.0
7	s5	90	ILE	3.0
26	d4	18	LEU	3.0
36	1	2872	A	3.0
8	S6	219	ARG	3.0
60	n4	68	ALA	3.0
41	l4	55	LYS	3.0
24	d2	55	ASP	3.0
29	D7	27	GLY	3.0
11	S9	5	PRO	2.9
36	1	1576	G	2.9
70	o4	59	PRO	2.9
19	C7	126	ALA	2.9
34	sR	118	LYS	2.9
42	L5	291	ALA	2.9
1	2	506	A	2.9
14	c2	31	VAL	2.9
30	D8	15	VAL	2.9
3	s1	89	ASP	2.9
60	n4	88	ASP	2.9
17	c5	138	PHE	2.9

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Mol	Chain	Res	Type	RSRZ
36	1	2506	U	2.9
34	sR	250	TYR	2.9
10	S8	21	PHE	2.9
23	D1	69	LEU	2.9
36	5	2100	A	2.9
48	M1	174	LYS	2.9
36	5	249	U	2.9
7	S5	77	TYR	2.9
34	sR	167	VAL	2.9
14	c2	102	GLY	2.9
60	N4	72	SER	2.9
41	L4	311	HIS	2.9
12	c0	2	LEU	2.9
28	D6	53	LEU	2.9
28	D6	67	THR	2.9
4	s2	92	ALA	2.9
7	S5	159	ALA	2.9
8	S6	80	ASN	2.9
18	c6	24	ALA	2.9
50	m4	9	ALA	2.9
79	Q3	92	ALA	2.9
1	6	1426	C	2.9
36	1	1122	U	2.9
69	o3	60	ARG	2.9
3	S1	161	ILE	2.9
8	S6	6	SER	2.9
9	s7	8	ILE	2.9
14	c2	23	THR	2.9
35	sM	169	ALA	2.9
45	L8	256	ALA	2.9
35	SM	161	ASN	2.9
10	s8	46	VAL	2.9
30	D8	7	VAL	2.9
33	E1	150	VAL	2.9
4	s2	97	ARG	2.9
72	O6	56	ARG	2.9
18	c6	140	LYS	2.9
35	sM	155	LEU	2.9
36	1	1577	G	2.9
13	C1	2	SER	2.8
36	5	1574	C	2.8
36	5	2507	C	2.8

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Mol	Chain	Res	Type	RSRZ
14	c2	110	ALA	2.8
33	e1	124	PRO	2.8
34	sR	162	ALA	2.8
34	sR	62	LYS	2.8
60	N4	69	LYS	2.8
58	n2	89	LEU	2.8
1	6	506	A	2.8
7	S5	71	ALA	2.8
11	S9	181	ALA	2.8
1	2	1718	G	2.8
14	c2	86	VAL	2.8
14	c2	121	VAL	2.8
16	c4	135	ARG	2.8
35	sM	83	LYS	2.8
12	C0	91	TYR	2.8
34	SR	27	ALA	2.8
47	m0	195	ALA	2.8
20	C8	145	ARG	2.8
17	c5	134	THR	2.8
1	2	1362	U	2.8
34	SR	9	LEU	2.8
36	5	3155	U	2.8
2	S0	198	MET	2.8
1	6	651	G	2.8
1	6	676	G	2.8
12	c0	65	TYR	2.8
5	S3	147	ALA	2.8
5	s3	16	VAL	2.8
35	SM	84	LYS	2.8
16	C4	89	THR	2.8
45	l8	161	GLU	2.8
55	M9	86	GLU	2.8
36	1	3154	C	2.8
36	5	1016	C	2.8
14	c2	37	VAL	2.8
33	E1	103	LEU	2.8
40	L3	387	LEU	2.8
13	C1	156	PHE	2.7
3	S1	63	GLY	2.7
14	c2	111	ASN	2.7
21	C9	80	TYR	2.7
5	S3	143	ARG	2.7

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Mol	Chain	Res	Type	RSRZ
16	C4	132	ARG	2.7
13	c1	145	ALA	2.7
27	d5	97	LYS	2.7
1	6	667	U	2.7
9	S7	38	LEU	2.7
1	2	233	C	2.7
1	2	321	C	2.7
10	s8	45	SER	2.7
36	5	1531	C	2.7
52	M6	80	PHE	2.7
15	C3	61	THR	2.7
17	c5	91	GLY	2.7
25	D3	2	GLY	2.7
28	D6	85	ARG	2.7
5	S3	88	ALA	2.7
66	o0	104	LEU	2.7
1	2	194	U	2.7
5	s3	77	PHE	2.7
1	6	1707	A	2.7
8	s6	168	THR	2.7
18	C6	70	THR	2.7
36	5	3347	A	2.7
47	M0	114	GLY	2.7
39	L2	247	ARG	2.7
47	m0	185	ARG	2.7
18	C6	12	LYS	2.7
36	1	1556	C	2.7
37	7	73	C	2.7
2	S0	32	HIS	2.7
33	e1	103	LEU	2.7
10	S8	152	ILE	2.7
18	C6	114	ARG	2.7
41	L4	68	GLY	2.7
18	c6	115	THR	2.7
29	D7	70	LYS	2.7
1	2	493	U	2.7
36	1	2875	U	2.7
36	5	2538	U	2.7
1	6	1371	A	2.7
38	8	79	A	2.7
35	sM	138	ALA	2.7
51	m5	39	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
33	E1	124	PRO	2.7
7	S5	102	ARG	2.7
16	C4	95	GLY	2.7
1	2	871	G	2.7
16	C4	34	SER	2.7
13	c1	147	ALA	2.7
1	6	241	U	2.7
11	S9	60	LEU	2.7
54	m8	186	VAL	2.7
2	S0	23	HIS	2.7
1	2	753	A	2.6
76	q0	77	ILE	2.6
5	s3	151	LYS	2.6
65	N9	59	LYS	2.6
74	O8	29	LYS	2.6
4	S2	144	TRP	2.6
27	D5	65	LEU	2.6
34	SR	270	LEU	2.6
55	m9	189	ALA	2.6
9	s7	158	ASP	2.6
19	c7	103	ASP	2.6
45	l8	124	ASP	2.6
47	M0	102	MET	2.6
1	2	912	U	2.6
36	1	2505	U	2.6
38	4	81	U	2.6
35	sM	137	GLU	2.6
58	N2	24	GLU	2.6
17	C5	11	VAL	2.6
34	SR	8	VAL	2.6
55	M9	154	ALA	2.6
1	2	1105	C	2.6
36	5	1563	C	2.6
60	n4	135	SER	2.6
27	D5	41	ILE	2.6
24	D2	85	ASP	2.6
66	O0	97	ASP	2.6
1	2	133	U	2.6
1	2	234	G	2.6
34	sR	135	THR	2.6
79	q3	2	ALA	2.6
2	S0	170	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
8	S6	96	SER	2.6
25	d3	18	HIS	2.6
82	p0	199	SER	2.6
56	n0	1	MET	2.6
35	SM	21	PRO	2.6
1	2	239	C	2.6
45	l8	123	GLN	2.6
35	sM	139	GLU	2.6
8	s6	162	VAL	2.6
27	D5	36	ALA	2.6
35	sM	47	ALA	2.6
45	L8	116	VAL	2.6
58	N2	27	VAL	2.6
70	O4	32	ALA	2.6
23	D1	34	ILE	2.6
35	sM	25	ILE	2.6
36	5	1349	G	2.6
12	C0	13	GLN	2.6
36	5	2401	A	2.6
1	6	1284	C	2.6
5	S3	213	GLU	2.6
10	s8	61	GLU	2.6
10	s8	89	GLU	2.6
12	c0	95	ARG	2.6
13	C1	145	ALA	2.6
13	c1	117	VAL	2.6
36	5	1192	C	2.6
14	C2	104	ALA	2.6
17	c5	54	ALA	2.6
20	C8	40	ARG	2.6
34	SR	117	LYS	2.6
35	sM	119	ALA	2.6
4	S2	90	THR	2.6
60	N4	82	ILE	2.5
14	c2	64	SER	2.5
15	c3	13	SER	2.5
22	D0	120	SER	2.5
60	N4	84	GLY	2.5
3	S1	222	LYS	2.5
8	S6	154	ARG	2.5
19	c7	95	ARG	2.5
22	d0	77	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
31	D9	6	VAL	2.5
60	N4	73	ARG	2.5
47	M0	221	ALA	2.5
47	m0	2	ALA	2.5
68	o2	127	ALA	2.5
7	S5	137	ILE	2.5
8	S6	170	THR	2.5
3	s1	232	HIS	2.5
60	N4	98	PRO	2.5
4	s2	93	GLY	2.5
17	c5	11	VAL	2.5
5	S3	30	ALA	2.5
3	S1	119	THR	2.5
17	C5	28	MET	2.5
18	c6	17	THR	2.5
36	5	2169	G	2.5
2	s0	97	PRO	2.5
9	s7	4	PRO	2.5
1	2	1082	C	2.5
16	C4	41	ARG	2.5
36	1	1781	C	2.5
53	M7	164	LYS	2.5
68	o2	16	LYS	2.5
12	c0	60	SER	2.5
48	M1	148	VAL	2.5
62	N6	85	VAL	2.5
35	sM	30	THR	2.5
8	s6	133	LEU	2.5
11	S9	95	TYR	2.5
45	L8	57	ARG	2.5
60	N4	80	ARG	2.5
13	C1	68	GLY	2.5
57	n1	126	VAL	2.5
22	D0	45	ALA	2.5
36	1	1573	G	2.5
36	5	1561	G	2.5
38	8	116	G	2.5
1	6	1399	C	2.5
13	C1	13	PHE	2.5
31	d9	8	PHE	2.5
34	SR	165	ASP	2.5
36	5	182	U	2.5

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Mol	Chain	Res	Type	RSRZ
36	5	250	U	2.5
49	m3	178	LYS	2.5
71	o5	83	LYS	2.5
5	s3	176	LEU	2.5
14	c2	62	LEU	2.5
11	s9	8	TYR	2.5
3	S1	65	VAL	2.5
5	s3	73	VAL	2.5
9	S7	109	VAL	2.5
16	C4	16	VAL	2.5
34	sR	2	ALA	2.4
36	1	2208	A	2.4
29	D7	32	PHE	2.4
35	sM	29	ASN	2.4
61	n5	36	LYS	2.4
3	S1	25	THR	2.4
34	SR	72	THR	2.4
1	6	1634	C	2.4
36	1	1562	C	2.4
36	5	443	G	2.4
1	6	238	U	2.4
55	m9	78	TYR	2.4
27	D5	73	GLY	2.4
4	s2	199	GLN	2.4
9	S7	108	GLN	2.4
47	M0	219	ALA	2.4
31	d9	43	PHE	2.4
14	C2	45	LEU	2.4
34	SR	99	THR	2.4
34	SR	181	TRP	2.4
60	N4	75	THR	2.4
31	d9	23	VAL	2.4
43	l6	67	GLY	2.4
49	M3	130	GLY	2.4
57	N1	124	VAL	2.4
1	2	658	C	2.4
1	2	910	C	2.4
1	6	680	U	2.4
1	6	720	G	2.4
36	1	1950	U	2.4
36	1	2095	G	2.4
36	5	1815	U	2.4

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Mol	Chain	Res	Type	RSRZ
33	e1	83	LYS	2.4
66	O0	32	LYS	2.4
35	sM	85	SER	2.4
59	N3	2	SER	2.4
55	M9	89	LEU	2.4
19	C7	123	ASN	2.4
33	e1	86	THR	2.4
3	S1	225	VAL	2.4
33	E1	95	HIS	2.4
34	SR	147	HIS	2.4
68	O2	26	HIS	2.4
7	s5	71	ALA	2.4
33	e1	91	ILE	2.4
36	1	2820	A	2.4
17	c5	8	LYS	2.4
19	c7	105	GLN	2.4
35	sM	158	GLN	2.4
40	l3	146	ARG	2.4
54	M8	180	ARG	2.4
1	2	704	C	2.4
36	1	1094	U	2.4
36	5	981	U	2.4
19	C7	89	SER	2.4
1	2	488	G	2.4
1	2	655	G	2.4
1	2	1601	G	2.4
20	C8	34	THR	2.4
33	e1	87	THR	2.4
14	C2	117	GLY	2.4
25	d3	21	ASN	2.4
16	C4	29	HIS	2.4
9	S7	8	ILE	2.4
74	o8	26	LYS	2.4
54	M8	151	ARG	2.4
5	s3	25	PHE	2.4
58	N2	107	PHE	2.4
35	SM	20	LEU	2.4
16	C4	37	GLU	2.4
36	1	1571	A	2.4
71	O5	8	GLU	2.4
15	C3	13	SER	2.4
1	2	232	U	2.4

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Mol	Chain	Res	Type	RSRZ
36	1	3155	U	2.4
36	5	1916	U	2.4
9	S7	105	THR	2.3
12	C0	90	THR	2.3
36	1	2101	C	2.3
7	S5	104	ASN	2.3
22	D0	106	ILE	2.3
26	D4	130	ALA	2.3
45	l8	117	ALA	2.3
5	s3	21	LEU	2.3
42	l5	4	GLN	2.3
1	2	755	A	2.3
8	S6	164	LYS	2.3
10	S8	174	GLY	2.3
55	M9	74	ARG	2.3
34	SR	2	ALA	2.3
45	L8	114	ALA	2.3
53	M7	183	ALA	2.3
78	q2	17	CYS	2.3
1	6	494	U	2.3
36	1	1764	U	2.3
58	N2	108	TYR	2.3
1	6	1447	C	2.3
14	C2	107	ASP	2.3
2	S0	18	LEU	2.3
3	S1	223	PHE	2.3
7	s5	48	PHE	2.3
47	m0	103	LEU	2.3
40	L3	200	GLU	2.3
3	S1	20	VAL	2.3
5	s3	148	LYS	2.3
3	S1	84	ILE	2.3
8	S6	175	ILE	2.3
3	S1	46	THR	2.3
14	C2	141	SER	2.3
15	c3	14	SER	2.3
19	C7	69	ILE	2.3
22	d0	65	ILE	2.3
25	D3	4	GLY	2.3
34	SR	74	THR	2.3
50	M4	9	ALA	2.3
6	S4	261	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
29	d7	33	LEU	2.3
47	m0	182	LEU	2.3
1	6	1800	A	2.3
38	4	80	A	2.3
2	S0	206	ASP	2.3
35	sM	134	ASP	2.3
1	2	820	U	2.3
11	s9	51	LYS	2.3
17	c5	5	VAL	2.3
36	1	3360	C	2.3
36	5	2772	C	2.3
8	S6	158	ILE	2.3
12	c0	97	PRO	2.3
7	s5	154	ALA	2.3
12	c0	61	TRP	2.3
60	N4	68	ALA	2.3
45	L8	66	SER	2.3
46	l9	191	LEU	2.3
36	1	2435	G	2.3
35	sM	126	ASP	2.3
8	s6	167	LYS	2.3
34	sR	137	LYS	2.3
35	SM	13	GLU	2.3
36	1	1580	A	2.3
36	1	2100	A	2.3
82	p0	105	VAL	2.3
1	2	718	U	2.3
36	1	2102	U	2.3
36	5	1764	U	2.3
38	4	157	U	2.3
8	S6	113	ILE	2.3
63	n7	124	ALA	2.3
73	O7	86	ALA	2.3
75	O9	2	ALA	2.3
1	6	659	C	2.3
40	L3	276	THR	2.3
4	S2	164	SER	2.3
11	S9	104	PHE	2.3
35	sM	79	SER	2.3
40	L3	277	SER	2.3
34	sR	79	TYR	2.3
54	m8	145	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
12	c0	13	GLN	2.3
51	M5	138	GLN	2.3
22	d0	97	VAL	2.3
42	L5	213	ASP	2.3
2	s0	117	GLU	2.2
42	L5	210	GLU	2.2
62	n6	127	GLU	2.2
11	S9	143	ILE	2.2
68	o2	9	ILE	2.2
19	c7	118	PRO	2.2
9	s7	12	ALA	2.2
18	C6	3	ALA	2.2
1	2	75	U	2.2
1	2	132	U	2.2
1	2	137	U	2.2
1	6	320	U	2.2
1	6	792	U	2.2
14	C2	88	LEU	2.2
36	1	249	U	2.2
36	1	1667	A	2.2
36	1	2502	A	2.2
68	o2	128	LEU	2.2
4	s2	96	THR	2.2
16	C4	26	THR	2.2
21	C9	54	PHE	2.2
12	c0	79	TYR	2.2
21	C9	85	SER	2.2
25	D3	3	LYS	2.2
33	e1	81	LYS	2.2
49	M3	131	LYS	2.2
14	c2	43	ARG	2.2
18	c6	68	ARG	2.2
36	1	1582	C	2.2
36	1	2374	C	2.2
60	N4	94	ARG	2.2
43	l6	157	GLN	2.2
3	s1	178	GLY	2.2
35	SM	167	PRO	2.2
3	s1	218	LEU	2.2
21	C9	108	LEU	2.2
60	N4	78	ALA	2.2
62	N6	92	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
14	C2	85	LYS	2.2
33	E1	83	LYS	2.2
33	E1	145	HIS	2.2
33	e1	92	LYS	2.2
82	p0	219	THR	2.2
18	c6	79	TYR	2.2
36	1	2538	U	2.2
36	1	3351	U	2.2
36	5	1555	U	2.2
48	m1	116	TYR	2.2
55	m9	85	ARG	2.2
63	n7	49	TYR	2.2
17	c5	137	SER	2.2
22	d0	76	SER	2.2
36	5	775	A	2.2
5	s3	115	ILE	2.2
39	l2	143	GLU	2.2
41	l4	54	GLU	2.2
66	O0	100	ILE	2.2
1	2	697	C	2.2
4	S2	34	GLY	2.2
7	S5	99	MET	2.2
34	sR	163	ASP	2.2
40	l3	140	ASP	2.2
25	D3	42	PRO	2.2
40	L3	22	ALA	2.2
55	M9	189	ALA	2.2
4	S2	224	PHE	2.2
5	s3	159	HIS	2.2
18	C6	115	THR	2.2
26	d4	62	THR	2.2
30	D8	26	THR	2.2
55	M9	75	HIS	2.2
14	c2	120	VAL	2.2
13	c1	28	SER	2.2
40	l3	363	SER	2.2
61	N5	69	SER	2.2
1	2	73	U	2.2
36	5	1356	U	2.2
36	5	2506	U	2.2
36	5	3079	U	2.2
61	n5	142	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	6	656	G	2.2
1	6	660	G	2.2
1	6	755	A	2.2
34	SR	274	LEU	2.2
36	1	440	A	2.2
38	8	114	G	2.2
8	S6	76	LEU	2.2
48	M1	108	GLU	2.2
5	s3	153	ALA	2.2
19	c7	35	CYS	2.2
21	C9	58	ALA	2.2
72	O6	52	PRO	2.2
82	p0	69	ASP	2.2
2	S0	102	PHE	2.2
42	L5	55	PHE	2.2
49	m3	179	PHE	2.2
14	C2	100	TRP	2.2
12	C0	85	HIS	2.2
7	s5	149	VAL	2.2
5	s3	160	SER	2.2
9	S7	74	GLN	2.2
3	s1	228	LEU	2.2
30	D8	57	MET	2.2
17	c5	74	ALA	2.2
42	L5	288	ALA	2.2
1	2	873	U	2.2
1	6	663	U	2.2
1	6	681	U	2.2
36	1	1567	U	2.2
36	1	2510	U	2.2
45	L8	31	PRO	2.2
55	M9	104	ARG	2.2
61	N5	33	ARG	2.2
17	c5	12	PHE	2.2
1	2	1583	A	2.2
1	6	1227	A	2.2
5	s3	41	VAL	2.1
10	s8	48	THR	2.1
1	6	1537	C	2.1
12	c0	76	LEU	2.1
20	c8	18	LEU	2.1
35	sM	28	SER	2.1

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Mol	Chain	Res	Type	RSRZ
45	L8	120	LYS	2.1
7	S5	179	ALA	2.1
9	S7	33	GLU	2.1
15	c3	24	ALA	2.1
22	d0	83	GLU	2.1
34	SR	102	ARG	2.1
55	m9	83	GLY	2.1
61	N5	117	ASN	2.1
12	c0	27	PHE	2.1
1	6	1060	U	2.1
21	C9	35	ASP	2.1
36	1	1568	U	2.1
36	1	1782	U	2.1
36	5	3064	U	2.1
6	s4	183	VAL	2.1
35	SM	18	VAL	2.1
45	L8	58	VAL	2.1
57	N1	126	VAL	2.1
13	c1	27	THR	2.1
1	6	217	A	2.1
19	C7	53	TYR	2.1
28	D6	79	ILE	2.1
36	1	2096	A	2.1
36	5	1350	A	2.1
64	N8	48	TYR	2.1
2	s0	24	LEU	2.1
13	c1	29	LYS	2.1
14	c2	36	LEU	2.1
21	C9	28	LEU	2.1
33	E1	82	LYS	2.1
40	L3	102	LEU	2.1
68	O2	128	LEU	2.1
4	s2	95	ARG	2.1
7	s5	92	ARG	2.1
8	S6	172	ALA	2.1
11	S9	171	ARG	2.1
62	n6	120	GLN	2.1
34	sR	284	ALA	2.1
21	C9	3	GLY	2.1
28	d6	90	GLU	2.1
1	2	131	C	2.1
29	D7	38	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
54	M8	74	GLU	2.1
60	n4	72	SER	2.1
60	n4	130	SER	2.1
14	C2	111	ASN	2.1
35	SM	156	ASN	2.1
14	c2	26	ASP	2.1
26	d4	12	VAL	2.1
28	D6	24	VAL	2.1
33	e1	102	VAL	2.1
1	6	1340	U	2.1
5	S3	142	LEU	2.1
9	S7	98	ILE	2.1
22	D0	103	ILE	2.1
22	d0	19	ILE	2.1
28	d6	19	LYS	2.1
36	1	1351	U	2.1
70	O4	100	ILE	2.1
72	o6	36	ARG	2.1
10	S8	198	ALA	2.1
26	D4	106	GLN	2.1
29	D7	51	GLN	2.1
29	d7	26	GLN	2.1
35	sM	157	GLN	2.1
71	o5	120	ALA	2.1
1	6	538	A	2.1
3	s1	53	GLY	2.1
13	c1	23	PRO	2.1
34	SR	298	GLY	2.1
36	5	2511	A	2.1
26	d4	69	SER	2.1
29	d7	30	SER	2.1
54	M8	184	PHE	2.1
82	p0	200	SER	2.1
1	2	1127	G	2.1
14	C2	116	VAL	2.1
36	5	1019	G	2.1
1	6	321	C	2.1
36	1	765	C	2.1
36	5	1597	C	2.1
14	c2	107	ASP	2.1
26	d4	128	LYS	2.1
19	C7	73	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
30	d8	9	LEU	2.1
34	SR	136	ILE	2.1
34	sR	32	LEU	2.1
10	S8	56	ARG	2.1
2	S0	40	ALA	2.1
35	SM	159	ALA	2.1
1	2	680	U	2.1
1	2	1057	U	2.1
1	2	1363	U	2.1
1	6	675	U	2.1
1	6	1129	U	2.1
15	C3	62	GLN	2.1
35	SM	157	GLN	2.1
36	1	3079	U	2.1
39	l2	253	GLN	2.1
7	S5	151	GLY	2.1
54	M8	183	GLY	2.1
61	N5	116	PRO	2.1
78	Q2	106	PHE	2.1
8	S6	162	VAL	2.1
14	c2	60	VAL	2.1
52	m6	126	VAL	2.1
1	6	684	A	2.1
12	c0	25	LYS	2.1
34	sR	117	LYS	2.1
52	M6	42	ASN	2.1
3	S1	29	TRP	2.1
8	s6	216	LEU	2.1
18	c6	44	LEU	2.1
28	D6	30	ILE	2.1
42	L5	92	LEU	2.1
48	M1	65	ILE	2.1
66	o0	14	LEU	2.1
18	C6	21	HIS	2.1
5	S3	204	ASP	2.1
24	D2	55	ASP	2.1
1	6	1624	C	2.1
12	c0	23	ALA	2.1
14	c2	27	ALA	2.1
32	E0	2	ALA	2.1
36	5	2098	C	2.1
36	1	2105	G	2.1

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Mol	Chain	Res	Type	RSRZ
36	5	2522	G	2.1
49	M3	132	ALA	2.1
28	D6	14	GLY	2.1
35	SM	98	GLY	2.1
42	l5	295	GLY	2.1
47	M0	113	GLN	2.1
71	O5	3	GLY	2.1
12	c0	94	GLU	2.1
35	sM	122	GLU	2.1
45	l8	159	PRO	2.1
60	N4	66	GLU	2.1
1	6	718	U	2.0
1	6	1708	U	2.0
36	5	1584	U	2.0
39	L2	62	VAL	2.0
3	S1	158	SER	2.0
21	C9	40	SER	2.0
26	d4	104	SER	2.0
66	o0	6	SER	2.0
3	s1	73	LEU	2.0
30	d8	40	ILE	2.0
45	l8	237	ILE	2.0
48	m1	7	ASN	2.0
49	M3	174	ARG	2.0
57	n1	160	ILE	2.0
1	2	992	A	2.0
1	6	661	A	2.0
13	C1	146	ALA	2.0
36	1	1583	A	2.0
42	L5	266	ALA	2.0
3	S1	178	GLY	2.0
8	S6	190	GLN	2.0
12	c0	93	GLN	2.0
70	O4	33	GLN	2.0
40	L3	94	GLU	2.0
36	1	1192	C	2.0
45	l8	245	LYS	2.0
9	S7	34	LEU	2.0
29	d7	17	ARG	2.0
14	C2	24	ILE	2.0
58	N2	72	SER	2.0
1	2	959	U	2.0

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Mol	Chain	Res	Type	RSRZ
36	5	240	U	2.0
17	c5	80	MET	2.0
54	M8	158	HIS	2.0
7	S5	85	ALA	2.0
17	c5	131	ALA	2.0
35	sM	82	THR	2.0
3	S1	205	PHE	2.0
34	sR	46	LYS	2.0
39	L2	46	LYS	2.0
48	m1	174	LYS	2.0
51	m5	176	LYS	2.0
53	M7	180	LYS	2.0
70	o4	81	CYS	2.0
13	C1	152	GLN	2.0
2	S0	34	GLU	2.0
11	s9	148	VAL	2.0
36	1	1352	A	2.0
36	5	1583	A	2.0
14	c2	33	ARG	2.0
49	m3	180	ARG	2.0
63	n7	12	VAL	2.0
70	O4	23	VAL	2.0
8	S6	178	LEU	2.0
5	S3	217	ILE	2.0
10	S8	43	ILE	2.0
1	6	717	C	2.0
36	5	1578	C	2.0
36	5	2821	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	3805	1/1	-0.58	0.38	190,190,190,190	0
85	MG	1	3815	1/1	-0.33	0.49	128,128,128,128	0
85	MG	6	2013	1/1	0.18	0.32	150,150,150,150	0
85	MG	2	2003	1/1	0.23	0.43	118,118,118,118	0
85	MG	2	1988	1/1	0.24	0.27	96,96,96,96	0
85	MG	5	3773	1/1	0.34	0.33	111,111,111,111	0
85	MG	2	1958	1/1	0.37	0.50	98,98,98,98	0
85	MG	5	3807	1/1	0.41	0.20	163,163,163,163	0
85	MG	5	3898	1/1	0.47	0.33	154,154,154,154	0
85	MG	5	3780	1/1	0.50	0.39	83,83,83,83	0
85	MG	2	1994	1/1	0.52	0.42	98,98,98,98	0
85	MG	5	3793	1/1	0.53	0.32	89,89,89,89	0
85	MG	5	3464	1/1	0.56	0.41	88,88,88,88	0
85	MG	6	1909	1/1	0.58	0.45	107,107,107,107	0
85	MG	1	3406	1/1	0.59	0.36	96,96,96,96	0
85	MG	5	3888	1/1	0.61	0.39	90,90,90,90	0
85	MG	2	1978	1/1	0.62	0.40	93,93,93,93	0
85	MG	2	1962	1/1	0.62	0.24	130,130,130,130	0
85	MG	o1	201	1/1	0.62	0.15	85,85,85,85	0
85	MG	1	3480	1/1	0.63	0.33	78,78,78,78	0
85	MG	3	201	1/1	0.63	0.32	78,78,78,78	0
85	MG	5	3678	1/1	0.63	0.28	97,97,97,97	0
85	MG	2	2018	1/1	0.63	0.30	80,80,80,80	0
85	MG	6	1963	1/1	0.63	0.38	96,96,96,96	0
85	MG	2	1949	1/1	0.64	0.43	82,82,82,82	0
85	MG	6	1924	1/1	0.64	0.45	95,95,95,95	0
85	MG	5	3884	1/1	0.64	0.40	83,83,83,83	0
85	MG	5	3710	1/1	0.64	0.37	91,91,91,91	0
85	MG	2	2019	1/1	0.64	0.33	73,73,73,73	0
85	MG	1	3650	1/1	0.64	0.37	100,100,100,100	0
85	MG	6	1966	1/1	0.65	0.46	82,82,82,82	0
85	MG	5	3651	1/1	0.65	0.27	111,111,111,111	0
85	MG	6	1940	1/1	0.66	0.40	85,85,85,85	0
85	MG	1	3635	1/1	0.67	0.42	72,72,72,72	0
85	MG	2	1974	1/1	0.67	0.50	86,86,86,86	0
85	MG	2	1976	1/1	0.67	0.34	88,88,88,88	0
85	MG	2	1915	1/1	0.67	0.41	74,74,74,74	0
85	MG	2	2017	1/1	0.67	0.38	85,85,85,85	0
85	MG	6	1904	1/1	0.67	0.33	68,68,68,68	0
85	MG	2	1986	1/1	0.68	0.41	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1953	1/1	0.68	0.28	104,104,104,104	0
85	MG	15	302	1/1	0.68	0.25	64,64,64,64	0
85	MG	2	1945	1/1	0.68	0.26	89,89,89,89	0
85	MG	M1	201	1/1	0.69	0.24	78,78,78,78	0
85	MG	2	2023	1/1	0.69	0.21	121,121,121,121	0
85	MG	2	1990	1/1	0.69	0.32	106,106,106,106	0
85	MG	5	3815	1/1	0.70	0.16	89,89,89,89	0
86	OHX	1	4185	7/7	0.70	0.19	190,190,190,190	0
85	MG	5	3809	1/1	0.71	0.33	100,100,100,100	0
85	MG	2	1937	1/1	0.71	0.40	61,61,61,61	0
85	MG	2	1967	1/1	0.71	0.47	106,106,106,106	0
85	MG	6	1988	1/1	0.71	0.23	84,84,84,84	0
85	MG	2	2010	1/1	0.71	0.42	73,73,73,73	0
85	MG	6	2028	1/1	0.71	0.44	80,80,80,80	0
85	MG	6	2045	1/1	0.71	0.24	78,78,78,78	0
85	MG	O7	102	1/1	0.71	0.33	81,81,81,81	0
85	MG	6	2039	1/1	0.72	0.43	94,94,94,94	0
85	MG	2	1971	1/1	0.72	0.34	81,81,81,81	0
85	MG	1	3665	1/1	0.72	0.44	75,75,75,75	0
85	MG	2	1952	1/1	0.73	0.39	95,95,95,95	0
85	MG	M9	202	1/1	0.73	0.28	68,68,68,68	0
85	MG	5	3860	1/1	0.73	0.18	88,88,88,88	0
85	MG	2	1914	1/1	0.73	0.40	71,71,71,71	0
85	MG	6	1998	1/1	0.73	0.32	95,95,95,95	0
85	MG	1	3730	1/1	0.73	0.21	86,86,86,86	0
85	MG	1	3408	1/1	0.73	0.28	44,44,44,44	0
85	MG	2	1968	1/1	0.73	0.29	79,79,79,79	0
86	OHX	1	4174	7/7	0.73	0.20	162,162,162,162	0
85	MG	2	1951	1/1	0.73	0.30	97,97,97,97	0
85	MG	1	3624	1/1	0.74	0.38	82,82,82,82	0
85	MG	5	3462	1/1	0.74	0.18	42,42,42,42	0
85	MG	2	1965	1/1	0.74	0.31	86,86,86,86	0
85	MG	1	3711	1/1	0.74	0.39	81,81,81,81	0
85	MG	6	2044	1/1	0.74	0.38	81,81,81,81	0
86	OHX	14	403	7/7	0.74	0.21	156,156,156,156	0
85	MG	5	3742	1/1	0.75	0.34	35,35,35,35	0
85	MG	2	1928	1/1	0.75	0.39	79,79,79,79	0
85	MG	Q2	502	1/1	0.75	0.34	75,75,75,75	0
85	MG	5	3474	1/1	0.75	0.28	79,79,79,79	0
85	MG	M9	201	1/1	0.75	0.13	68,68,68,68	0
85	MG	4	220	1/1	0.75	0.41	82,82,82,82	0
85	MG	5	3682	1/1	0.75	0.40	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4188	7/7	0.75	0.26	146,146,146,146	0
85	MG	N5	201	1/1	0.75	0.24	70,70,70,70	0
85	MG	1	3649	1/1	0.76	0.28	69,69,69,69	0
85	MG	M3	202	1/1	0.76	0.34	91,91,91,91	0
85	MG	3	209	1/1	0.76	0.28	69,69,69,69	0
86	OHX	5	4222	7/7	0.76	0.18	186,186,186,186	0
86	OHX	5	4228	7/7	0.76	0.29	130,130,130,130	0
86	OHX	5	4235	7/7	0.76	0.22	154,154,154,154	0
85	MG	1	3747	1/1	0.76	0.14	50,50,50,50	0
85	MG	2	1970	1/1	0.77	0.34	69,69,69,69	0
85	MG	5	3570	1/1	0.77	0.38	29,29,29,29	0
85	MG	5	3897	1/1	0.77	0.17	66,66,66,66	0
85	MG	5	3686	1/1	0.77	0.41	63,63,63,63	0
85	MG	8	213	1/1	0.77	0.17	59,59,59,59	0
85	MG	5	3823	1/1	0.77	0.34	45,45,45,45	0
85	MG	5	3415	1/1	0.77	0.16	55,55,55,55	0
85	MG	6	1928	1/1	0.78	0.37	74,74,74,74	0
86	OHX	2	2161	7/7	0.78	0.16	181,181,181,181	0
86	OHX	2	2162	7/7	0.78	0.23	159,159,159,159	0
86	OHX	1	4141	7/7	0.78	0.24	133,133,133,133	0
85	MG	1	3616	1/1	0.78	0.16	67,67,67,67	0
85	MG	6	1961	1/1	0.78	0.30	80,80,80,80	0
85	MG	6	2034	1/1	0.78	0.26	73,73,73,73	0
86	OHX	6	2169	7/7	0.78	0.18	163,163,163,163	0
86	OHX	6	2184	7/7	0.78	0.16	179,179,179,179	0
85	MG	6	1906	1/1	0.78	0.32	47,47,47,47	0
85	MG	2	1961	1/1	0.78	0.40	81,81,81,81	0
86	OHX	5	4234	7/7	0.78	0.21	162,162,162,162	0
85	MG	6	1983	1/1	0.78	0.17	80,80,80,80	0
86	OHX	5	4237	7/7	0.78	0.20	168,168,168,168	0
86	OHX	5	4239	7/7	0.78	0.20	158,158,158,158	0
86	OHX	5	4240	7/7	0.78	0.17	194,194,194,194	0
86	OHX	5	4241	7/7	0.78	0.14	239,239,239,239	0
86	OHX	14	402	7/7	0.78	0.18	155,155,155,155	0
85	MG	3	208	1/1	0.78	0.17	60,60,60,60	0
85	MG	6	1911	1/1	0.79	0.39	82,82,82,82	0
86	OHX	1	4168	7/7	0.79	0.18	165,165,165,165	0
86	OHX	1	4170	7/7	0.79	0.23	151,151,151,151	0
85	MG	6	2003	1/1	0.79	0.24	96,96,96,96	0
85	MG	5	3635	1/1	0.79	0.41	81,81,81,81	0
85	MG	5	3824	1/1	0.79	0.23	94,94,94,94	0
86	OHX	1	4193	7/7	0.79	0.19	150,150,150,150	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4199	7/7	0.79	0.20	150,150,150,150	0
86	OHX	6	2147	7/7	0.79	0.20	147,147,147,147	0
85	MG	1	3471	1/1	0.79	0.13	40,40,40,40	0
85	MG	5	3878	1/1	0.79	0.29	51,51,51,51	0
86	OHX	6	2187	7/7	0.79	0.20	161,161,161,161	0
86	OHX	6	2189	7/7	0.79	0.20	150,150,150,150	0
85	MG	2	1904	1/1	0.79	0.38	74,74,74,74	0
85	MG	6	1930	1/1	0.79	0.19	56,56,56,56	0
85	MG	5	3893	1/1	0.79	0.13	73,73,73,73	0
85	MG	O3	201	1/1	0.79	0.41	74,74,74,74	0
85	MG	1	3562	1/1	0.79	0.31	48,48,48,48	0
85	MG	2	1908	1/1	0.79	0.34	73,73,73,73	0
85	MG	2	1910	1/1	0.79	0.43	60,60,60,60	0
85	MG	5	3420	1/1	0.79	0.21	96,96,96,96	0
85	MG	2	1950	1/1	0.79	0.29	97,97,97,97	0
85	MG	2	1930	1/1	0.79	0.26	64,64,64,64	0
86	OHX	15	305	7/7	0.79	0.20	149,149,149,149	0
85	MG	2	1926	1/1	0.80	0.38	91,91,91,91	0
85	MG	6	1984	1/1	0.80	0.20	78,78,78,78	0
85	MG	6	1986	1/1	0.80	0.15	69,69,69,69	0
85	MG	1	3705	1/1	0.80	0.18	43,43,43,43	0
85	MG	5	3425	1/1	0.80	0.20	46,46,46,46	0
85	MG	7	204	1/1	0.80	0.27	63,63,63,63	0
85	MG	7	213	1/1	0.80	0.21	52,52,52,52	0
85	MG	6	1991	1/1	0.80	0.15	54,54,54,54	0
86	OHX	6	2190	7/7	0.80	0.19	179,179,179,179	0
85	MG	5	3781	1/1	0.80	0.31	82,82,82,82	0
85	MG	6	1935	1/1	0.80	0.21	52,52,52,52	0
85	MG	5	3467	1/1	0.80	0.19	114,114,114,114	0
85	MG	1	3629	1/1	0.80	0.13	41,41,41,41	0
85	MG	5	3478	1/1	0.80	0.30	64,64,64,64	0
86	OHX	1	4158	7/7	0.80	0.17	162,162,162,162	0
85	MG	2	1991	1/1	0.80	0.22	101,101,101,101	0
85	MG	1	3592	1/1	0.80	0.25	53,53,53,53	0
85	MG	2	1963	1/1	0.80	0.26	94,94,94,94	0
86	OHX	1	4176	7/7	0.80	0.19	163,163,163,163	0
85	MG	6	1968	1/1	0.80	0.34	58,58,58,58	0
85	MG	6	2030	1/1	0.81	0.22	73,73,73,73	0
85	MG	1	3573	1/1	0.81	0.29	39,39,39,39	0
86	OHX	1	4169	7/7	0.81	0.18	181,181,181,181	0
85	MG	2	1924	1/1	0.81	0.45	83,83,83,83	0
86	OHX	s1	303	7/7	0.81	0.16	184,184,184,184	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	2006	1/1	0.81	0.13	64,64,64,64	0
85	MG	1	3495	1/1	0.81	0.22	50,50,50,50	0
86	OHX	5	4231	7/7	0.81	0.23	136,136,136,136	0
85	MG	5	3769	1/1	0.81	0.16	111,111,111,111	0
86	OHX	1	4186	7/7	0.81	0.20	146,146,146,146	0
85	MG	1	3528	1/1	0.81	0.32	46,46,46,46	0
86	OHX	2	2158	7/7	0.81	0.18	167,167,167,167	0
85	MG	1	3545	1/1	0.81	0.26	52,52,52,52	0
86	OHX	4	238	7/7	0.81	0.25	145,145,145,145	0
85	MG	2	1999	1/1	0.81	0.29	71,71,71,71	0
85	MG	5	3657	1/1	0.81	0.16	47,47,47,47	0
86	OHX	6	2183	7/7	0.81	0.22	147,147,147,147	0
85	MG	1	3456	1/1	0.82	0.38	62,62,62,62	0
86	OHX	1	4164	7/7	0.82	0.12	219,219,219,219	0
85	MG	6	1965	1/1	0.82	0.28	66,66,66,66	0
85	MG	1	3586	1/1	0.82	0.34	38,38,38,38	0
85	MG	6	2206	1/1	0.82	0.18	68,68,68,68	0
85	MG	6	1907	1/1	0.82	0.31	70,70,70,70	0
85	MG	5	3797	1/1	0.82	0.18	93,93,93,93	0
85	MG	5	3798	1/1	0.82	0.17	59,59,59,59	0
85	MG	6	1970	1/1	0.82	0.21	65,65,65,65	0
85	MG	6	1971	1/1	0.82	0.34	65,65,65,65	0
85	MG	2	1977	1/1	0.82	0.21	72,72,72,72	0
85	MG	5	3463	1/1	0.82	0.19	62,62,62,62	0
85	MG	2	1941	1/1	0.82	0.24	68,68,68,68	0
86	OHX	L4	403	7/7	0.82	0.18	147,147,147,147	0
86	OHX	M7	205	7/7	0.82	0.28	124,124,124,124	0
85	MG	6	1923	1/1	0.82	0.31	68,68,68,68	0
86	OHX	6	2155	7/7	0.82	0.15	187,187,187,187	0
85	MG	2	1982	1/1	0.82	0.26	79,79,79,79	0
85	MG	6	1926	1/1	0.82	0.32	52,52,52,52	0
85	MG	5	3554	1/1	0.82	0.31	35,35,35,35	0
86	OHX	6	2185	7/7	0.82	0.19	152,152,152,152	0
85	MG	6	1995	1/1	0.82	0.30	72,72,72,72	0
85	MG	5	3632	1/1	0.82	0.39	86,86,86,86	0
85	MG	1	3521	1/1	0.82	0.24	74,74,74,74	0
86	OHX	6	2192	7/7	0.82	0.15	188,188,188,188	0
85	MG	6	2001	1/1	0.82	0.25	82,82,82,82	0
86	OHX	5	4165	7/7	0.82	0.17	194,194,194,194	0
86	OHX	5	4189	7/7	0.82	0.17	164,164,164,164	0
86	OHX	5	4197	7/7	0.82	0.17	165,165,165,165	0
86	OHX	5	4204	7/7	0.82	0.20	151,151,151,151	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4206	7/7	0.82	0.21	158,158,158,158	0
86	OHX	5	4207	7/7	0.82	0.22	146,146,146,146	0
86	OHX	5	4219	7/7	0.82	0.20	140,140,140,140	0
85	MG	2	1993	1/1	0.82	0.20	67,67,67,67	0
85	MG	8	211	1/1	0.82	0.09	68,68,68,68	0
85	MG	5	3676	1/1	0.82	0.13	47,47,47,47	0
85	MG	l3	402	1/1	0.82	0.36	37,37,37,37	0
85	MG	1	3846	1/1	0.82	0.18	45,45,45,45	0
85	MG	2	1940	1/1	0.82	0.20	69,69,69,69	0
85	MG	q3	502	1/1	0.82	0.14	62,62,62,62	0
86	OHX	2	2148	7/7	0.82	0.15	166,166,166,166	0
85	MG	6	1946	1/1	0.82	0.44	64,64,64,64	0
85	MG	1	3411	1/1	0.82	0.30	44,44,44,44	0
85	MG	6	2038	1/1	0.82	0.41	81,81,81,81	0
85	MG	5	3747	1/1	0.82	0.28	39,39,39,39	0
86	OHX	n9	102	7/7	0.82	0.16	173,173,173,173	0
86	OHX	2	2177	7/7	0.83	0.17	184,184,184,184	0
85	MG	5	3457	1/1	0.83	0.28	31,31,31,31	0
85	MG	2	1907	1/1	0.83	0.40	61,61,61,61	0
85	MG	1	3709	1/1	0.83	0.23	66,66,66,66	0
85	MG	6	1922	1/1	0.83	0.30	52,52,52,52	0
85	MG	2	1939	1/1	0.83	0.25	68,68,68,68	0
86	OHX	5	4154	7/7	0.83	0.23	130,130,130,130	0
85	MG	2	1923	1/1	0.83	0.31	58,58,58,58	0
85	MG	2	1973	1/1	0.83	0.29	73,73,73,73	0
85	MG	5	3486	1/1	0.83	0.28	56,56,56,56	0
85	MG	1	3749	1/1	0.83	0.19	55,55,55,55	0
85	MG	5	3786	1/1	0.83	0.23	89,89,89,89	0
85	MG	2	1905	1/1	0.83	0.41	62,62,62,62	0
85	MG	5	3574	1/1	0.83	0.40	35,35,35,35	0
86	OHX	5	4220	7/7	0.83	0.14	185,185,185,185	0
86	OHX	5	4221	7/7	0.83	0.19	157,157,157,157	0
86	OHX	1	4194	7/7	0.83	0.18	146,146,146,146	0
86	OHX	1	4195	7/7	0.83	0.16	174,174,174,174	0
86	OHX	5	4230	7/7	0.83	0.18	165,165,165,165	0
86	OHX	1	4196	7/7	0.83	0.23	139,139,139,139	0
85	MG	1	3420	1/1	0.83	0.30	83,83,83,83	0
86	OHX	1	4203	7/7	0.83	0.20	150,150,150,150	0
85	MG	n8	201	1/1	0.83	0.15	37,37,37,37	0
85	MG	1	3548	1/1	0.83	0.32	54,54,54,54	0
85	MG	5	3401	1/1	0.83	0.25	63,63,63,63	0
85	MG	5	3811	1/1	0.83	0.15	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	5	4247	7/7	0.83	0.19	152,152,152,152	0
86	OHX	7	226	7/7	0.83	0.16	157,157,157,157	0
85	MG	1	3421	1/1	0.83	0.46	77,77,77,77	0
86	OHX	2	2159	7/7	0.83	0.21	145,145,145,145	0
85	MG	2	1996	1/1	0.83	0.27	96,96,96,96	0
85	MG	1	3697	1/1	0.83	0.31	74,74,74,74	0
85	MG	1	3632	1/1	0.84	0.40	75,75,75,75	0
85	MG	6	2005	1/1	0.84	0.21	62,62,62,62	0
86	OHX	1	4200	7/7	0.84	0.20	148,148,148,148	0
85	MG	1	3500	1/1	0.84	0.27	75,75,75,75	0
85	MG	5	3615	1/1	0.84	0.20	53,53,53,53	0
85	MG	1	3513	1/1	0.84	0.20	26,26,26,26	0
85	MG	M9	203	1/1	0.84	0.19	61,61,61,61	0
86	OHX	M7	206	7/7	0.84	0.20	142,142,142,142	0
86	OHX	6	2136	7/7	0.84	0.19	138,138,138,138	0
85	MG	6	1954	1/1	0.84	0.36	45,45,45,45	0
85	MG	1	3760	1/1	0.84	0.17	47,47,47,47	0
85	MG	1	3780	1/1	0.84	0.31	48,48,48,48	0
85	MG	6	1964	1/1	0.84	0.24	55,55,55,55	0
85	MG	1	3802	1/1	0.84	0.19	64,64,64,64	0
85	MG	1	3409	1/1	0.84	0.33	31,31,31,31	0
85	MG	c7	201	1/1	0.84	0.29	73,73,73,73	0
86	OHX	6	2188	7/7	0.84	0.18	148,148,148,148	0
85	MG	5	3728	1/1	0.84	0.23	102,102,102,102	0
85	MG	5	3732	1/1	0.84	0.39	69,69,69,69	0
85	MG	sM	302	1/1	0.84	0.17	51,51,51,51	0
86	OHX	6	2195	7/7	0.84	0.14	186,186,186,186	0
86	OHX	6	2203	7/7	0.84	0.18	157,157,157,157	0
86	OHX	2	2137	7/7	0.84	0.14	176,176,176,176	0
85	MG	1	3657	1/1	0.84	0.28	47,47,47,47	0
85	MG	5	3756	1/1	0.84	0.11	49,49,49,49	0
86	OHX	5	4180	7/7	0.84	0.16	161,161,161,161	0
85	MG	5	3757	1/1	0.84	0.20	60,60,60,60	0
85	MG	1	3842	1/1	0.84	0.31	59,59,59,59	0
85	MG	2	1989	1/1	0.84	0.28	57,57,57,57	0
86	OHX	2	2174	7/7	0.84	0.14	187,187,187,187	0
85	MG	1	3667	1/1	0.84	0.14	53,53,53,53	0
86	OHX	1	4110	7/7	0.84	0.19	155,155,155,155	0
86	OHX	1	4126	7/7	0.84	0.16	155,155,155,155	0
86	OHX	1	4140	7/7	0.84	0.21	147,147,147,147	0
85	MG	5	3431	1/1	0.84	0.11	35,35,35,35	0
85	MG	1	3535	1/1	0.84	0.25	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	3790	1/1	0.84	0.28	58,58,58,58	0
85	MG	6	1920	1/1	0.84	0.31	61,61,61,61	0
85	MG	1	3619	1/1	0.84	0.26	70,70,70,70	0
85	MG	3	211	1/1	0.84	0.13	85,85,85,85	0
85	MG	6	1993	1/1	0.84	0.24	57,57,57,57	0
85	MG	3	214	1/1	0.84	0.20	64,64,64,64	0
86	OHX	1	4178	7/7	0.84	0.21	145,145,145,145	0
85	MG	2	2007	1/1	0.84	0.40	74,74,74,74	0
86	OHX	5	4245	7/7	0.84	0.19	167,167,167,167	0
85	MG	5	3479	1/1	0.84	0.23	70,70,70,70	0
85	MG	5	3816	1/1	0.84	0.12	57,57,57,57	0
86	OHX	1	4191	7/7	0.84	0.16	154,154,154,154	0
85	MG	2	1960	1/1	0.84	0.26	57,57,57,57	0
85	MG	5	3491	1/1	0.84	0.30	62,62,62,62	0
85	MG	5	3859	1/1	0.84	0.32	77,77,77,77	0
85	MG	5	3502	1/1	0.85	0.26	45,45,45,45	0
85	MG	5	3520	1/1	0.85	0.32	42,42,42,42	0
85	MG	2	1947	1/1	0.85	0.23	88,88,88,88	0
85	MG	6	1932	1/1	0.85	0.27	46,46,46,46	0
85	MG	1	3530	1/1	0.85	0.32	61,61,61,61	0
85	MG	1	3470	1/1	0.85	0.24	51,51,51,51	0
86	OHX	1	4201	7/7	0.85	0.22	148,148,148,148	0
85	MG	5	3626	1/1	0.85	0.21	34,34,34,34	0
85	MG	6	2035	1/1	0.85	0.16	71,71,71,71	0
85	MG	6	2037	1/1	0.85	0.41	58,58,58,58	0
85	MG	5	3644	1/1	0.85	0.28	57,57,57,57	0
85	MG	L5	301	1/1	0.85	0.25	56,56,56,56	0
86	OHX	M9	204	7/7	0.85	0.14	175,175,175,175	0
85	MG	5	3653	1/1	0.85	0.23	31,31,31,31	0
85	MG	6	1952	1/1	0.85	0.27	62,62,62,62	0
85	MG	1	3719	1/1	0.85	0.14	47,47,47,47	0
85	MG	1	3729	1/1	0.85	0.14	57,57,57,57	0
86	OHX	6	2182	7/7	0.85	0.18	154,154,154,154	0
85	MG	2	1933	1/1	0.85	0.33	75,75,75,75	0
85	MG	1	3733	1/1	0.85	0.22	52,52,52,52	0
85	MG	5	3687	1/1	0.85	0.31	79,79,79,79	0
86	OHX	6	2186	7/7	0.85	0.15	172,172,172,172	0
86	OHX	2	2146	7/7	0.85	0.13	183,183,183,183	0
85	MG	1	3734	1/1	0.85	0.14	34,34,34,34	0
85	MG	1	3475	1/1	0.85	0.32	74,74,74,74	0
85	MG	5	3404	1/1	0.85	0.09	52,52,52,52	0
85	MG	2	1957	1/1	0.85	0.42	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	2	1943	1/1	0.85	0.33	67,67,67,67	0
86	OHX	2	2163	7/7	0.85	0.14	180,180,180,180	0
86	OHX	2	2171	7/7	0.85	0.15	177,177,177,177	0
86	OHX	2	2172	7/7	0.85	0.17	172,172,172,172	0
85	MG	5	3421	1/1	0.85	0.34	35,35,35,35	0
86	OHX	2	2175	7/7	0.85	0.16	178,178,178,178	0
85	MG	1	3764	1/1	0.85	0.12	58,58,58,58	0
86	OHX	S6	301	7/7	0.85	0.15	164,164,164,164	0
86	OHX	1	4061	7/7	0.85	0.20	141,141,141,141	0
86	OHX	1	4099	7/7	0.85	0.15	170,170,170,170	0
85	MG	5	3430	1/1	0.85	0.23	66,66,66,66	0
85	MG	2	2005	1/1	0.85	0.17	64,64,64,64	0
85	MG	5	3433	1/1	0.85	0.27	85,85,85,85	0
85	MG	5	3447	1/1	0.85	0.21	66,66,66,66	0
86	OHX	1	4146	7/7	0.85	0.20	144,144,144,144	0
86	OHX	5	4226	7/7	0.85	0.16	155,155,155,155	0
85	MG	5	3452	1/1	0.85	0.21	47,47,47,47	0
86	OHX	1	4163	7/7	0.85	0.20	137,137,137,137	0
85	MG	1	3659	1/1	0.85	0.23	63,63,63,63	0
86	OHX	1	4165	7/7	0.85	0.25	127,127,127,127	0
86	OHX	1	4167	7/7	0.85	0.22	124,124,124,124	0
85	MG	2	1901	1/1	0.85	0.19	82,82,82,82	0
85	MG	1	3608	1/1	0.85	0.39	67,67,67,67	0
85	MG	1	3668	1/1	0.85	0.21	82,82,82,82	0
85	MG	1	3844	1/1	0.85	0.30	59,59,59,59	0
85	MG	5	3471	1/1	0.85	0.14	39,39,39,39	0
85	MG	1	3669	1/1	0.85	0.29	63,63,63,63	0
85	MG	1	3847	1/1	0.85	0.25	54,54,54,54	0
85	MG	1	3678	1/1	0.85	0.13	36,36,36,36	0
86	OHX	1	4187	7/7	0.85	0.20	138,138,138,138	0
85	MG	1	3444	1/1	0.85	0.40	67,67,67,67	0
86	OHX	m1	203	7/7	0.85	0.15	162,162,162,162	0
86	OHX	m4	201	7/7	0.85	0.11	219,219,219,219	0
85	MG	1	3698	1/1	0.85	0.28	42,42,42,42	0
85	MG	1	3437	1/1	0.86	0.24	35,35,35,35	0
85	MG	5	3652	1/1	0.86	0.32	63,63,63,63	0
85	MG	1	3748	1/1	0.86	0.24	57,57,57,57	0
85	MG	2	1942	1/1	0.86	0.25	64,64,64,64	0
85	MG	5	3664	1/1	0.86	0.49	57,57,57,57	0
85	MG	m7	204	1/1	0.86	0.15	32,32,32,32	0
85	MG	1	3753	1/1	0.86	0.21	100,100,100,100	0
86	OHX	1	4206	7/7	0.86	0.22	137,137,137,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4212	7/7	0.86	0.20	146,146,146,146	0
86	OHX	4	235	7/7	0.86	0.17	161,161,161,161	0
85	MG	1	3451	1/1	0.86	0.27	47,47,47,47	0
85	MG	5	3681	1/1	0.86	0.11	39,39,39,39	0
86	OHX	2	2135	7/7	0.86	0.16	147,147,147,147	0
85	MG	S8	301	1/1	0.86	0.18	56,56,56,56	0
85	MG	1	3556	1/1	0.86	0.20	53,53,53,53	0
86	OHX	6	2106	7/7	0.86	0.17	139,139,139,139	0
85	MG	D0	201	1/1	0.86	0.28	68,68,68,68	0
86	OHX	2	2155	7/7	0.86	0.11	247,247,247,247	0
86	OHX	2	2157	7/7	0.86	0.10	289,289,289,289	0
85	MG	D3	201	1/1	0.86	0.14	55,55,55,55	0
86	OHX	6	2174	7/7	0.86	0.15	168,168,168,168	0
86	OHX	6	2177	7/7	0.86	0.17	149,149,149,149	0
85	MG	5	3718	1/1	0.86	0.19	61,61,61,61	0
86	OHX	2	2160	7/7	0.86	0.15	181,181,181,181	0
85	MG	1	3583	1/1	0.86	0.30	43,43,43,43	0
85	MG	1	3817	1/1	0.86	0.15	50,50,50,50	0
85	MG	2	1948	1/1	0.86	0.18	62,62,62,62	0
85	MG	1	3589	1/1	0.86	0.39	40,40,40,40	0
85	MG	5	3453	1/1	0.86	0.24	102,102,102,102	0
85	MG	2	1931	1/1	0.86	0.44	59,59,59,59	0
85	MG	6	1914	1/1	0.86	0.17	70,70,70,70	0
85	MG	5	3770	1/1	0.86	0.22	71,71,71,71	0
85	MG	1	3485	1/1	0.86	0.30	43,43,43,43	0
86	OHX	6	2199	7/7	0.86	0.17	160,160,160,160	0
85	MG	1	3858	1/1	0.86	0.43	74,74,74,74	0
86	OHX	1	4091	7/7	0.86	0.15	160,160,160,160	0
86	OHX	5	4142	7/7	0.86	0.18	142,142,142,142	0
85	MG	1	4215	1/1	0.86	0.12	42,42,42,42	0
86	OHX	1	4108	7/7	0.86	0.17	148,148,148,148	0
86	OHX	5	4172	7/7	0.86	0.15	179,179,179,179	0
85	MG	2	1920	1/1	0.86	0.19	56,56,56,56	0
86	OHX	1	4124	7/7	0.86	0.23	127,127,127,127	0
85	MG	6	1925	1/1	0.86	0.42	36,36,36,36	0
86	OHX	5	4203	7/7	0.86	0.17	147,147,147,147	0
86	OHX	1	4128	7/7	0.86	0.14	179,179,179,179	0
86	OHX	1	4130	7/7	0.86	0.16	167,167,167,167	0
85	MG	6	2004	1/1	0.86	0.39	69,69,69,69	0
86	OHX	5	4211	7/7	0.86	0.23	124,124,124,124	0
85	MG	2	1985	1/1	0.86	0.21	67,67,67,67	0
85	MG	1	3507	1/1	0.86	0.38	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4149	7/7	0.86	0.15	155,155,155,155	0
85	MG	5	3488	1/1	0.86	0.12	33,33,33,33	0
86	OHX	5	4225	7/7	0.86	0.19	157,157,157,157	0
86	OHX	1	4159	7/7	0.86	0.16	164,164,164,164	0
85	MG	6	1929	1/1	0.86	0.30	57,57,57,57	0
85	MG	1	3414	1/1	0.86	0.38	59,59,59,59	0
85	MG	5	3504	1/1	0.86	0.30	52,52,52,52	0
85	MG	5	3508	1/1	0.86	0.32	41,41,41,41	0
85	MG	2	1992	1/1	0.86	0.14	56,56,56,56	0
85	MG	5	3542	1/1	0.86	0.24	31,31,31,31	0
85	MG	6	1934	1/1	0.86	0.28	72,72,72,72	0
85	MG	6	2036	1/1	0.86	0.20	56,56,56,56	0
85	MG	2	2020	1/1	0.86	0.35	65,65,65,65	0
85	MG	6	1936	1/1	0.86	0.35	72,72,72,72	0
86	OHX	1	4179	7/7	0.86	0.20	144,144,144,144	0
86	OHX	5	4248	7/7	0.86	0.18	142,142,142,142	0
86	OHX	1	4181	7/7	0.86	0.18	149,149,149,149	0
86	OHX	8	229	7/7	0.86	0.17	138,138,138,138	0
85	MG	L3	402	1/1	0.86	0.14	43,43,43,43	0
85	MG	6	1941	1/1	0.86	0.31	53,53,53,53	0
85	MG	5	3633	1/1	0.86	0.15	39,39,39,39	0
86	OHX	m0	302	7/7	0.86	0.20	139,139,139,139	0
85	MG	1	3637	1/1	0.86	0.29	62,62,62,62	0
85	MG	5	4253	1/1	0.86	0.27	45,45,45,45	0
86	OHX	m7	206	7/7	0.86	0.20	131,131,131,131	0
85	MG	6	1950	1/1	0.86	0.20	44,44,44,44	0
85	MG	1	3789	1/1	0.87	0.19	84,84,84,84	0
86	OHX	6	2173	7/7	0.87	0.22	138,138,138,138	0
85	MG	5	3475	1/1	0.87	0.28	37,37,37,37	0
86	OHX	1	4131	7/7	0.87	0.20	132,132,132,132	0
86	OHX	6	2180	7/7	0.87	0.20	147,147,147,147	0
86	OHX	1	4133	7/7	0.87	0.19	125,125,125,125	0
85	MG	1	3799	1/1	0.87	0.22	86,86,86,86	0
85	MG	6	2041	1/1	0.87	0.31	68,68,68,68	0
86	OHX	1	4145	7/7	0.87	0.17	154,154,154,154	0
85	MG	5	3480	1/1	0.87	0.25	41,41,41,41	0
85	MG	8	202	1/1	0.87	0.23	71,71,71,71	0
85	MG	5	3481	1/1	0.87	0.26	57,57,57,57	0
85	MG	2	1917	1/1	0.87	0.37	55,55,55,55	0
85	MG	2	1975	1/1	0.87	0.36	62,62,62,62	0
85	MG	1	3498	1/1	0.87	0.42	36,36,36,36	0
85	MG	m1	201	1/1	0.87	0.26	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	s8	301	1/1	0.87	0.14	50,50,50,50	0
85	MG	M7	202	1/1	0.87	0.12	35,35,35,35	0
85	MG	1	3618	1/1	0.87	0.32	59,59,59,59	0
86	OHX	s9	201	7/7	0.87	0.19	138,138,138,138	0
86	OHX	d9	102	7/7	0.87	0.15	181,181,181,181	0
86	OHX	5	4139	7/7	0.87	0.21	137,137,137,137	0
86	OHX	5	4141	7/7	0.87	0.18	139,139,139,139	0
85	MG	1	3818	1/1	0.87	0.18	64,64,64,64	0
86	OHX	2	2101	7/7	0.87	0.16	159,159,159,159	0
86	OHX	5	4161	7/7	0.87	0.19	134,134,134,134	0
85	MG	5	3778	1/1	0.87	0.16	81,81,81,81	0
86	OHX	5	4170	7/7	0.87	0.19	142,142,142,142	0
85	MG	6	1931	1/1	0.87	0.47	65,65,65,65	0
86	OHX	2	2144	7/7	0.87	0.13	179,179,179,179	0
86	OHX	5	4184	7/7	0.87	0.17	140,140,140,140	0
86	OHX	5	4185	7/7	0.87	0.18	132,132,132,132	0
85	MG	5	3406	1/1	0.87	0.14	41,41,41,41	0
86	OHX	1	4183	7/7	0.87	0.22	140,140,140,140	0
86	OHX	1	4184	7/7	0.87	0.19	158,158,158,158	0
86	OHX	2	2147	7/7	0.87	0.20	130,130,130,130	0
85	MG	5	3782	1/1	0.87	0.16	84,84,84,84	0
86	OHX	2	2153	7/7	0.87	0.14	157,157,157,157	0
85	MG	1	3555	1/1	0.87	0.36	36,36,36,36	0
86	OHX	1	4189	7/7	0.87	0.16	151,151,151,151	0
85	MG	6	1933	1/1	0.87	0.43	65,65,65,65	0
85	MG	5	3791	1/1	0.87	0.29	55,55,55,55	0
85	MG	2	1909	1/1	0.87	0.31	65,65,65,65	0
86	OHX	5	4223	7/7	0.87	0.16	153,153,153,153	0
85	MG	5	3423	1/1	0.87	0.26	60,60,60,60	0
85	MG	2	1921	1/1	0.87	0.39	54,54,54,54	0
85	MG	6	1999	1/1	0.87	0.14	102,102,102,102	0
85	MG	1	3670	1/1	0.87	0.16	54,54,54,54	0
85	MG	5	3637	1/1	0.87	0.26	49,49,49,49	0
85	MG	2	1912	1/1	0.87	0.26	66,66,66,66	0
86	OHX	2	2173	7/7	0.87	0.17	151,151,151,151	0
86	OHX	5	4236	7/7	0.87	0.21	144,144,144,144	0
86	OHX	1	4209	7/7	0.87	0.21	133,133,133,133	0
86	OHX	5	4238	7/7	0.87	0.15	154,154,154,154	0
85	MG	1	3687	1/1	0.87	0.14	53,53,53,53	0
86	OHX	3	223	7/7	0.87	0.15	175,175,175,175	0
85	MG	2	2012	1/1	0.87	0.33	67,67,67,67	0
86	OHX	4	237	7/7	0.87	0.18	144,144,144,144	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1979	1/1	0.87	0.35	53,53,53,53	0
85	MG	1	3703	1/1	0.87	0.36	64,64,64,64	0
86	OHX	5	4249	7/7	0.87	0.18	163,163,163,163	0
85	MG	1	3765	1/1	0.87	0.23	54,54,54,54	0
85	MG	6	1958	1/1	0.87	0.34	61,61,61,61	0
86	OHX	8	232	7/7	0.87	0.18	152,152,152,152	0
85	MG	5	3880	1/1	0.87	0.25	26,26,26,26	0
85	MG	1	3430	1/1	0.87	0.28	47,47,47,47	0
85	MG	6	1917	1/1	0.87	0.29	57,57,57,57	0
85	MG	4	211	1/1	0.87	0.25	54,54,54,54	0
86	OHX	6	2151	7/7	0.87	0.15	169,169,169,169	0
85	MG	5	3894	1/1	0.87	0.20	61,61,61,61	0
86	OHX	6	2163	7/7	0.87	0.13	198,198,198,198	0
86	OHX	6	2164	7/7	0.87	0.16	160,160,160,160	0
88	ZN	d7	101	1/1	0.87	0.14	156,156,156,156	0
85	MG	1	3527	1/1	0.88	0.35	32,32,32,32	0
85	MG	5	3754	1/1	0.88	0.19	56,56,56,56	0
85	MG	1	3417	1/1	0.88	0.22	35,35,35,35	0
85	MG	1	3610	1/1	0.88	0.10	41,41,41,41	0
85	MG	1	3686	1/1	0.88	0.22	96,96,96,96	0
85	MG	1	3483	1/1	0.88	0.23	53,53,53,53	0
85	MG	N8	204	1/1	0.88	0.42	38,38,38,38	0
85	MG	5	3776	1/1	0.88	0.28	66,66,66,66	0
86	OHX	2	2169	7/7	0.88	0.17	150,150,150,150	0
85	MG	1	3696	1/1	0.88	0.12	64,64,64,64	0
86	OHX	6	2171	7/7	0.88	0.15	149,149,149,149	0
85	MG	5	3494	1/1	0.88	0.24	29,29,29,29	0
85	MG	1	3418	1/1	0.88	0.23	44,44,44,44	0
85	MG	1	3494	1/1	0.88	0.23	45,45,45,45	0
86	OHX	6	2179	7/7	0.88	0.20	139,139,139,139	0
85	MG	1	3547	1/1	0.88	0.23	50,50,50,50	0
86	OHX	6	2181	7/7	0.88	0.18	143,143,143,143	0
85	MG	5	3513	1/1	0.88	0.31	34,34,34,34	0
85	MG	s2	301	1/1	0.88	0.13	53,53,53,53	0
85	MG	5	3524	1/1	0.88	0.32	31,31,31,31	0
85	MG	5	3533	1/1	0.88	0.25	54,54,54,54	0
86	OHX	1	4094	7/7	0.88	0.14	152,152,152,152	0
85	MG	5	3537	1/1	0.88	0.28	36,36,36,36	0
85	MG	5	3540	1/1	0.88	0.34	28,28,28,28	0
85	MG	1	3837	1/1	0.88	0.25	44,44,44,44	0
85	MG	5	3551	1/1	0.88	0.29	33,33,33,33	0
86	OHX	6	2191	7/7	0.88	0.16	165,165,165,165	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	2	1938	1/1	0.88	0.31	66,66,66,66	0
85	MG	6	1967	1/1	0.88	0.22	81,81,81,81	0
86	OHX	1	4129	7/7	0.88	0.16	158,158,158,158	0
86	OHX	6	2202	7/7	0.88	0.19	155,155,155,155	0
85	MG	5	3572	1/1	0.88	0.29	41,41,41,41	0
85	MG	1	3497	1/1	0.88	0.30	41,41,41,41	0
85	MG	5	3845	1/1	0.88	0.28	50,50,50,50	0
86	OHX	1	4137	7/7	0.88	0.17	146,146,146,146	0
85	MG	5	3846	1/1	0.88	0.33	55,55,55,55	0
85	MG	5	3858	1/1	0.88	0.19	53,53,53,53	0
86	OHX	1	4142	7/7	0.88	0.14	153,153,153,153	0
86	OHX	1	4144	7/7	0.88	0.15	166,166,166,166	0
86	OHX	5	4160	7/7	0.88	0.19	137,137,137,137	0
85	MG	5	3583	1/1	0.88	0.27	45,45,45,45	0
86	OHX	5	4164	7/7	0.88	0.17	159,159,159,159	0
85	MG	5	3588	1/1	0.88	0.41	51,51,51,51	0
85	MG	5	3867	1/1	0.88	0.23	67,67,67,67	0
85	MG	5	3876	1/1	0.88	0.35	63,63,63,63	0
85	MG	5	3602	1/1	0.88	0.14	64,64,64,64	0
86	OHX	1	4161	7/7	0.88	0.14	160,160,160,160	0
85	MG	1	3458	1/1	0.88	0.26	40,40,40,40	0
86	OHX	5	4188	7/7	0.88	0.23	126,126,126,126	0
85	MG	5	3618	1/1	0.88	0.21	52,52,52,52	0
86	OHX	5	4196	7/7	0.88	0.19	143,143,143,143	0
85	MG	1	3714	1/1	0.88	0.13	49,49,49,49	0
86	OHX	1	4166	7/7	0.88	0.19	132,132,132,132	0
85	MG	6	1977	1/1	0.88	0.23	48,48,48,48	0
85	MG	5	3416	1/1	0.88	0.11	36,36,36,36	0
85	MG	5	3896	1/1	0.88	0.29	54,54,54,54	0
85	MG	6	1979	1/1	0.88	0.34	63,63,63,63	0
86	OHX	1	4173	7/7	0.88	0.15	151,151,151,151	0
85	MG	2	1954	1/1	0.88	0.24	64,64,64,64	0
86	OHX	1	4175	7/7	0.88	0.22	134,134,134,134	0
85	MG	5	3638	1/1	0.88	0.21	50,50,50,50	0
85	MG	5	4256	1/1	0.88	0.27	35,35,35,35	0
86	OHX	5	4224	7/7	0.88	0.21	136,136,136,136	0
85	MG	5	3643	1/1	0.88	0.12	46,46,46,46	0
85	MG	1	3725	1/1	0.88	0.40	40,40,40,40	0
85	MG	1	4222	1/1	0.88	0.28	34,34,34,34	0
86	OHX	5	4229	7/7	0.88	0.11	194,194,194,194	0
85	MG	1	3647	1/1	0.88	0.11	51,51,51,51	0
85	MG	1	3563	1/1	0.88	0.24	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3405	1/1	0.88	0.28	70,70,70,70	0
85	MG	5	3440	1/1	0.88	0.26	34,34,34,34	0
85	MG	5	3674	1/1	0.88	0.13	69,69,69,69	0
85	MG	2	2015	1/1	0.88	0.29	61,61,61,61	0
85	MG	1	3584	1/1	0.88	0.34	51,51,51,51	0
85	MG	4	205	1/1	0.88	0.23	29,29,29,29	0
85	MG	q1	101	1/1	0.88	0.19	40,40,40,40	0
85	MG	4	208	1/1	0.88	0.28	46,46,46,46	0
86	OHX	5	4243	7/7	0.88	0.14	178,178,178,178	0
86	OHX	2	2094	7/7	0.88	0.14	151,151,151,151	0
86	OHX	5	4246	7/7	0.88	0.17	154,154,154,154	0
85	MG	1	3660	1/1	0.88	0.12	34,34,34,34	0
86	OHX	2	2117	7/7	0.88	0.17	148,148,148,148	0
86	OHX	2	2134	7/7	0.88	0.16	148,148,148,148	0
86	OHX	7	224	7/7	0.88	0.17	150,150,150,150	0
85	MG	1	3663	1/1	0.88	0.20	53,53,53,53	0
85	MG	5	3697	1/1	0.88	0.12	45,45,45,45	0
86	OHX	2	2139	7/7	0.88	0.17	171,171,171,171	0
86	OHX	1	4211	7/7	0.88	0.13	169,169,169,169	0
85	MG	1	3479	1/1	0.88	0.19	84,84,84,84	0
86	OHX	1	4213	7/7	0.88	0.19	159,159,159,159	0
85	MG	1	3754	1/1	0.88	0.11	44,44,44,44	0
85	MG	6	2020	1/1	0.88	0.33	91,91,91,91	0
85	MG	1	3523	1/1	0.88	0.26	26,26,26,26	0
86	OHX	2	2149	7/7	0.88	0.14	181,181,181,181	0
86	OHX	2	2150	7/7	0.88	0.12	197,197,197,197	0
88	ZN	D7	101	1/1	0.88	0.10	162,162,162,162	0
85	MG	1	3591	1/1	0.88	0.40	53,53,53,53	0
85	MG	6	1910	1/1	0.89	0.30	46,46,46,46	0
86	OHX	6	2178	7/7	0.89	0.14	163,163,163,163	0
85	MG	1	3515	1/1	0.89	0.30	34,34,34,34	0
85	MG	5	3499	1/1	0.89	0.30	40,40,40,40	0
85	MG	5	3500	1/1	0.89	0.21	31,31,31,31	0
85	MG	5	3694	1/1	0.89	0.21	51,51,51,51	0
85	MG	1	3593	1/1	0.89	0.23	29,29,29,29	0
86	OHX	1	4138	7/7	0.89	0.24	124,124,124,124	0
86	OHX	1	4139	7/7	0.89	0.17	137,137,137,137	0
85	MG	5	4255	1/1	0.89	0.28	28,28,28,28	0
85	MG	1	3651	1/1	0.89	0.14	74,74,74,74	0
85	MG	5	3715	1/1	0.89	0.15	52,52,52,52	0
85	MG	c8	201	1/1	0.89	0.39	69,69,69,69	0
85	MG	7	214	1/1	0.89	0.23	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	5	3720	1/1	0.89	0.34	63,63,63,63	0
86	OHX	1	4148	7/7	0.89	0.14	148,148,148,148	0
86	OHX	6	2194	7/7	0.89	0.14	173,173,173,173	0
85	MG	8	207	1/1	0.89	0.15	44,44,44,44	0
86	OHX	6	2198	7/7	0.89	0.17	153,153,153,153	0
85	MG	5	3722	1/1	0.89	0.19	49,49,49,49	0
85	MG	5	3512	1/1	0.89	0.31	58,58,58,58	0
85	MG	5	3731	1/1	0.89	0.11	47,47,47,47	0
85	MG	d3	202	1/1	0.89	0.21	54,54,54,54	0
85	MG	l7	302	1/1	0.89	0.18	40,40,40,40	0
86	OHX	c3	201	7/7	0.89	0.13	162,162,162,162	0
86	OHX	c5	201	7/7	0.89	0.11	176,176,176,176	0
86	OHX	d4	201	7/7	0.89	0.13	162,162,162,162	0
85	MG	1	3478	1/1	0.89	0.33	47,47,47,47	0
86	OHX	5	4096	7/7	0.89	0.15	152,152,152,152	0
85	MG	m1	202	1/1	0.89	0.34	64,64,64,64	0
85	MG	6	1978	1/1	0.89	0.19	77,77,77,77	0
85	MG	5	3527	1/1	0.89	0.43	55,55,55,55	0
86	OHX	5	4147	7/7	0.89	0.20	126,126,126,126	0
86	OHX	5	4153	7/7	0.89	0.22	124,124,124,124	0
85	MG	1	3773	1/1	0.89	0.20	57,57,57,57	0
86	OHX	5	4158	7/7	0.89	0.16	144,144,144,144	0
85	MG	o4	201	1/1	0.89	0.28	69,69,69,69	0
85	MG	3	212	1/1	0.89	0.12	80,80,80,80	0
85	MG	1	3778	1/1	0.89	0.13	46,46,46,46	0
85	MG	2	1934	1/1	0.89	0.34	58,58,58,58	0
86	OHX	5	4169	7/7	0.89	0.17	148,148,148,148	0
85	MG	5	3545	1/1	0.89	0.37	51,51,51,51	0
85	MG	1	3784	1/1	0.89	0.18	59,59,59,59	0
86	OHX	5	4177	7/7	0.89	0.17	144,144,144,144	0
86	OHX	5	4178	7/7	0.89	0.17	136,136,136,136	0
86	OHX	2	2121	7/7	0.89	0.17	146,146,146,146	0
86	OHX	5	4183	7/7	0.89	0.14	153,153,153,153	0
86	OHX	2	2130	7/7	0.89	0.13	207,207,207,207	0
86	OHX	1	4182	7/7	0.89	0.15	153,153,153,153	0
85	MG	6	1990	1/1	0.89	0.25	74,74,74,74	0
85	MG	5	3564	1/1	0.89	0.34	31,31,31,31	0
86	OHX	2	2136	7/7	0.89	0.16	140,140,140,140	0
85	MG	1	3785	1/1	0.89	0.31	43,43,43,43	0
86	OHX	5	4198	7/7	0.89	0.19	128,128,128,128	0
85	MG	1	3615	1/1	0.89	0.16	36,36,36,36	0
85	MG	1	3798	1/1	0.89	0.12	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	3450	1/1	0.89	0.25	39,39,39,39	0
85	MG	1	3664	1/1	0.89	0.19	45,45,45,45	0
86	OHX	5	4209	7/7	0.89	0.20	131,131,131,131	0
86	OHX	5	4210	7/7	0.89	0.17	157,157,157,157	0
85	MG	5	3590	1/1	0.89	0.28	32,32,32,32	0
86	OHX	5	4212	7/7	0.89	0.15	146,146,146,146	0
86	OHX	5	4213	7/7	0.89	0.17	152,152,152,152	0
85	MG	6	2000	1/1	0.89	0.20	57,57,57,57	0
85	MG	2	1944	1/1	0.89	0.14	67,67,67,67	0
85	MG	1	3502	1/1	0.89	0.44	41,41,41,41	0
85	MG	5	3808	1/1	0.89	0.08	29,29,29,29	0
85	MG	2	1969	1/1	0.89	0.19	66,66,66,66	0
85	MG	1	3536	1/1	0.89	0.39	55,55,55,55	0
86	OHX	1	4202	7/7	0.89	0.17	144,144,144,144	0
85	MG	5	3814	1/1	0.89	0.12	50,50,50,50	0
86	OHX	5	4227	7/7	0.89	0.16	142,142,142,142	0
86	OHX	1	4204	7/7	0.89	0.17	148,148,148,148	0
85	MG	6	1939	1/1	0.89	0.30	62,62,62,62	0
86	OHX	1	4207	7/7	0.89	0.18	144,144,144,144	0
85	MG	1	3539	1/1	0.89	0.28	25,25,25,25	0
85	MG	1	3540	1/1	0.89	0.28	54,54,54,54	0
85	MG	1	3735	1/1	0.89	0.26	64,64,64,64	0
86	OHX	2	2167	7/7	0.89	0.16	163,163,163,163	0
85	MG	5	3831	1/1	0.89	0.22	49,49,49,49	0
85	MG	5	3639	1/1	0.89	0.12	55,55,55,55	0
85	MG	N9	101	1/1	0.89	0.14	31,31,31,31	0
85	MG	5	3848	1/1	0.89	0.10	37,37,37,37	0
85	MG	1	3476	1/1	0.89	0.24	37,37,37,37	0
85	MG	1	3546	1/1	0.89	0.28	68,68,68,68	0
86	OHX	5	4244	7/7	0.89	0.18	143,143,143,143	0
85	MG	1	3855	1/1	0.89	0.27	44,44,44,44	0
85	MG	6	1902	1/1	0.89	0.21	55,55,55,55	0
85	MG	5	3868	1/1	0.89	0.14	49,49,49,49	0
86	OHX	1	4066	7/7	0.89	0.17	143,143,143,143	0
86	OHX	6	2138	7/7	0.89	0.16	130,130,130,130	0
86	OHX	1	4079	7/7	0.89	0.18	126,126,126,126	0
86	OHX	6	2149	7/7	0.89	0.16	149,149,149,149	0
86	OHX	8	228	7/7	0.89	0.16	156,156,156,156	0
85	MG	5	3872	1/1	0.89	0.34	40,40,40,40	0
85	MG	5	3875	1/1	0.89	0.25	45,45,45,45	0
86	OHX	6	2159	7/7	0.89	0.18	140,140,140,140	0
85	MG	1	3856	1/1	0.89	0.32	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3689	1/1	0.89	0.34	60,60,60,60	0
86	OHX	19	600	7/7	0.89	0.18	134,134,134,134	0
86	OHX	6	2167	7/7	0.89	0.22	128,128,128,128	0
86	OHX	6	2168	7/7	0.89	0.15	162,162,162,162	0
85	MG	5	3483	1/1	0.89	0.22	69,69,69,69	0
86	OHX	1	4111	7/7	0.89	0.23	128,128,128,128	0
86	OHX	m8	201	7/7	0.89	0.18	145,145,145,145	0
85	MG	1	3861	1/1	0.89	0.20	53,53,53,53	0
86	OHX	o7	503	7/7	0.89	0.22	142,142,142,142	0
87	PCY	2	2178	40/40	0.89	0.15	77,77,77,77	0
85	MG	1	3692	1/1	0.89	0.34	43,43,43,43	0
86	OHX	6	2175	7/7	0.89	0.20	119,119,119,119	0
85	MG	1	3638	1/1	0.90	0.19	64,64,64,64	0
85	MG	5	3516	1/1	0.90	0.21	42,42,42,42	0
85	MG	5	3517	1/1	0.90	0.27	23,23,23,23	0
85	MG	1	3642	1/1	0.90	0.20	44,44,44,44	0
85	MG	3	203	1/1	0.90	0.14	97,97,97,97	0
85	MG	5	3525	1/1	0.90	0.27	47,47,47,47	0
85	MG	1	3643	1/1	0.90	0.20	44,44,44,44	0
86	OHX	2	2170	7/7	0.90	0.15	154,154,154,154	0
85	MG	1	3646	1/1	0.90	0.23	40,40,40,40	0
85	MG	5	3796	1/1	0.90	0.09	50,50,50,50	0
85	MG	1	3505	1/1	0.90	0.18	35,35,35,35	0
85	MG	5	3538	1/1	0.90	0.41	42,42,42,42	0
85	MG	1	3648	1/1	0.90	0.13	46,46,46,46	0
85	MG	1	3559	1/1	0.90	0.23	39,39,39,39	0
85	MG	2	1946	1/1	0.90	0.14	60,60,60,60	0
86	OHX	S8	302	7/7	0.90	0.12	173,173,173,173	0
85	MG	5	3810	1/1	0.90	0.14	43,43,43,43	0
86	OHX	1	4062	7/7	0.90	0.17	130,130,130,130	0
85	MG	5	3550	1/1	0.90	0.36	50,50,50,50	0
86	OHX	1	4068	7/7	0.90	0.18	127,127,127,127	0
86	OHX	1	4075	7/7	0.90	0.13	143,143,143,143	0
85	MG	2	2021	1/1	0.90	0.42	66,66,66,66	0
85	MG	2	1964	1/1	0.90	0.24	56,56,56,56	0
86	OHX	1	4093	7/7	0.90	0.17	138,138,138,138	0
85	MG	5	3555	1/1	0.90	0.31	46,46,46,46	0
85	MG	5	3817	1/1	0.90	0.20	65,65,65,65	0
86	OHX	1	4101	7/7	0.90	0.14	149,149,149,149	0
86	OHX	6	2193	7/7	0.90	0.12	195,195,195,195	0
85	MG	5	3559	1/1	0.90	0.23	34,34,34,34	0
85	MG	4	212	1/1	0.90	0.13	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3830	1/1	0.90	0.25	26,26,26,26	0
86	OHX	1	4112	7/7	0.90	0.11	181,181,181,181	0
86	OHX	1	4114	7/7	0.90	0.17	138,138,138,138	0
86	OHX	1	4117	7/7	0.90	0.16	138,138,138,138	0
86	OHX	1	4119	7/7	0.90	0.16	142,142,142,142	0
86	OHX	s8	303	7/7	0.90	0.13	167,167,167,167	0
85	MG	5	3568	1/1	0.90	0.26	30,30,30,30	0
85	MG	5	3569	1/1	0.90	0.30	32,32,32,32	0
85	MG	c1	201	1/1	0.90	0.25	47,47,47,47	0
85	MG	5	3847	1/1	0.90	0.13	42,42,42,42	0
85	MG	1	3580	1/1	0.90	0.25	43,43,43,43	0
86	OHX	5	4062	7/7	0.90	0.15	132,132,132,132	0
85	MG	6	1951	1/1	0.90	0.29	68,68,68,68	0
86	OHX	5	4099	7/7	0.90	0.18	129,129,129,129	0
86	OHX	5	4109	7/7	0.90	0.19	128,128,128,128	0
86	OHX	5	4138	7/7	0.90	0.14	135,135,135,135	0
86	OHX	1	4132	7/7	0.90	0.18	148,148,148,148	0
86	OHX	5	4140	7/7	0.90	0.14	146,146,146,146	0
85	MG	5	3582	1/1	0.90	0.21	34,34,34,34	0
85	MG	1	3516	1/1	0.90	0.33	39,39,39,39	0
85	MG	2	1906	1/1	0.90	0.20	53,53,53,53	0
86	OHX	5	4148	7/7	0.90	0.19	137,137,137,137	0
85	MG	6	1955	1/1	0.90	0.31	40,40,40,40	0
85	MG	5	3595	1/1	0.90	0.32	37,37,37,37	0
86	OHX	5	4157	7/7	0.90	0.15	143,143,143,143	0
85	MG	5	3600	1/1	0.90	0.20	44,44,44,44	0
86	OHX	5	4159	7/7	0.90	0.18	125,125,125,125	0
85	MG	L8	301	1/1	0.90	0.23	63,63,63,63	0
85	MG	5	3608	1/1	0.90	0.29	31,31,31,31	0
85	MG	2	1918	1/1	0.90	0.41	55,55,55,55	0
85	MG	1	3767	1/1	0.90	0.17	89,89,89,89	0
86	OHX	5	4168	7/7	0.90	0.12	159,159,159,159	0
85	MG	5	3621	1/1	0.90	0.32	49,49,49,49	0
85	MG	M6	202	1/1	0.90	0.10	65,65,65,65	0
86	OHX	1	4156	7/7	0.90	0.14	150,150,150,150	0
85	MG	5	3629	1/1	0.90	0.21	66,66,66,66	0
85	MG	5	3895	1/1	0.90	0.09	119,119,119,119	0
85	MG	5	3631	1/1	0.90	0.22	47,47,47,47	0
86	OHX	5	4182	7/7	0.90	0.16	145,145,145,145	0
85	MG	1	3524	1/1	0.90	0.12	43,43,43,43	0
85	MG	1	3590	1/1	0.90	0.21	38,38,38,38	0
85	MG	1	3435	1/1	0.90	0.09	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3482	1/1	0.90	0.21	34,34,34,34	0
85	MG	N0	201	1/1	0.90	0.25	45,45,45,45	0
86	OHX	5	4190	7/7	0.90	0.18	134,134,134,134	0
86	OHX	5	4193	7/7	0.90	0.20	135,135,135,135	0
86	OHX	5	4194	7/7	0.90	0.18	132,132,132,132	0
85	MG	7	201	1/1	0.90	0.31	40,40,40,40	0
85	MG	7	203	1/1	0.90	0.31	57,57,57,57	0
85	MG	2	1936	1/1	0.90	0.26	55,55,55,55	0
85	MG	6	1976	1/1	0.90	0.22	48,48,48,48	0
85	MG	5	3437	1/1	0.90	0.35	61,61,61,61	0
86	OHX	5	4205	7/7	0.90	0.17	145,145,145,145	0
85	MG	1	3673	1/1	0.90	0.19	28,28,28,28	0
85	MG	8	205	1/1	0.90	0.18	54,54,54,54	0
85	MG	1	3597	1/1	0.90	0.34	44,44,44,44	0
85	MG	1	3679	1/1	0.90	0.17	65,65,65,65	0
86	OHX	1	4180	7/7	0.90	0.21	114,114,114,114	0
85	MG	5	3654	1/1	0.90	0.12	43,43,43,43	0
85	MG	2	1959	1/1	0.90	0.21	66,66,66,66	0
86	OHX	5	4218	7/7	0.90	0.15	145,145,145,145	0
85	MG	1	3804	1/1	0.90	0.16	42,42,42,42	0
85	MG	1	3487	1/1	0.90	0.28	45,45,45,45	0
85	MG	1	3612	1/1	0.90	0.30	46,46,46,46	0
85	MG	1	3489	1/1	0.90	0.36	54,54,54,54	0
85	MG	2	1929	1/1	0.90	0.33	66,66,66,66	0
85	MG	1	3543	1/1	0.90	0.30	39,39,39,39	0
85	MG	n8	203	1/1	0.90	0.20	47,47,47,47	0
85	MG	5	3472	1/1	0.90	0.16	47,47,47,47	0
85	MG	1	3838	1/1	0.90	0.23	42,42,42,42	0
85	MG	6	1997	1/1	0.90	0.31	59,59,59,59	0
85	MG	2	2016	1/1	0.90	0.33	63,63,63,63	0
86	OHX	2	2092	7/7	0.90	0.15	150,150,150,150	0
86	OHX	1	4198	7/7	0.90	0.17	137,137,137,137	0
85	MG	2	1913	1/1	0.90	0.32	79,79,79,79	0
85	MG	1	3625	1/1	0.90	0.21	37,37,37,37	0
85	MG	2	1997	1/1	0.90	0.10	80,80,80,80	0
86	OHX	2	2120	7/7	0.90	0.13	158,158,158,158	0
85	MG	6	1921	1/1	0.90	0.29	43,43,43,43	0
85	MG	1	3467	1/1	0.90	0.22	59,59,59,59	0
86	OHX	1	4205	7/7	0.90	0.16	155,155,155,155	0
85	MG	1	3551	1/1	0.90	0.34	35,35,35,35	0
86	OHX	5	4242	7/7	0.90	0.22	116,116,116,116	0
85	MG	5	3489	1/1	0.90	0.25	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4208	7/7	0.90	0.19	137,137,137,137	0
85	MG	6	2006	1/1	0.90	0.12	54,54,54,54	0
85	MG	6	2012	1/1	0.90	0.13	70,70,70,70	0
86	OHX	2	2138	7/7	0.90	0.14	147,147,147,147	0
85	MG	5	3745	1/1	0.90	0.20	64,64,64,64	0
86	OHX	2	2140	7/7	0.90	0.14	167,167,167,167	0
86	OHX	5	4250	7/7	0.90	0.16	143,143,143,143	0
86	OHX	3	224	7/7	0.90	0.17	148,148,148,148	0
86	OHX	4	234	7/7	0.90	0.18	126,126,126,126	0
85	MG	5	3498	1/1	0.90	0.24	36,36,36,36	0
86	OHX	4	236	7/7	0.90	0.16	153,153,153,153	0
85	MG	2	1925	1/1	0.90	0.41	65,65,65,65	0
85	MG	6	2019	1/1	0.90	0.14	110,110,110,110	0
85	MG	1	3721	1/1	0.90	0.09	55,55,55,55	0
85	MG	5	3761	1/1	0.90	0.22	77,77,77,77	0
85	MG	5	3762	1/1	0.90	0.18	39,39,39,39	0
86	OHX	2	2152	7/7	0.90	0.13	178,178,178,178	0
85	MG	5	3503	1/1	0.90	0.33	32,32,32,32	0
86	OHX	6	2120	7/7	0.90	0.18	122,122,122,122	0
86	OHX	6	2126	7/7	0.90	0.25	116,116,116,116	0
86	OHX	2	2154	7/7	0.90	0.15	149,149,149,149	0
85	MG	1	3722	1/1	0.90	0.12	48,48,48,48	0
86	OHX	2	2156	7/7	0.90	0.20	129,129,129,129	0
85	MG	6	2029	1/1	0.90	0.20	105,105,105,105	0
85	MG	1	4220	1/1	0.90	0.11	48,48,48,48	0
86	OHX	6	2152	7/7	0.90	0.14	151,151,151,151	0
85	MG	1	3443	1/1	0.91	0.17	82,82,82,82	0
86	OHX	1	4120	7/7	0.91	0.14	161,161,161,161	0
85	MG	sM	301	1/1	0.91	0.17	48,48,48,48	0
85	MG	1	3415	1/1	0.91	0.28	37,37,37,37	0
86	OHX	1	4127	7/7	0.91	0.17	135,135,135,135	0
85	MG	6	1975	1/1	0.91	0.16	59,59,59,59	0
85	MG	7	207	1/1	0.91	0.08	56,56,56,56	0
85	MG	7	208	1/1	0.91	0.31	52,52,52,52	0
85	MG	7	211	1/1	0.91	0.09	72,72,72,72	0
85	MG	7	212	1/1	0.91	0.07	51,51,51,51	0
85	MG	5	3723	1/1	0.91	0.17	53,53,53,53	0
86	OHX	1	4134	7/7	0.91	0.17	121,121,121,121	0
85	MG	5	3724	1/1	0.91	0.14	40,40,40,40	0
86	OHX	6	2196	7/7	0.91	0.15	149,149,149,149	0
85	MG	5	3725	1/1	0.91	0.14	37,37,37,37	0
85	MG	8	203	1/1	0.91	0.28	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	3726	1/1	0.91	0.18	59,59,59,59	0
85	MG	5	3403	1/1	0.91	0.27	54,54,54,54	0
85	MG	1	3402	1/1	0.91	0.34	56,56,56,56	0
85	MG	2	1927	1/1	0.91	0.31	51,51,51,51	0
85	MG	5	3734	1/1	0.91	0.38	71,71,71,71	0
85	MG	15	301	1/1	0.91	0.29	67,67,67,67	0
85	MG	5	3738	1/1	0.91	0.30	67,67,67,67	0
85	MG	5	3543	1/1	0.91	0.33	66,66,66,66	0
85	MG	5	3411	1/1	0.91	0.29	42,42,42,42	0
86	OHX	5	4017	7/7	0.91	0.15	161,161,161,161	0
86	OHX	1	4157	7/7	0.91	0.16	143,143,143,143	0
85	MG	1	3452	1/1	0.91	0.21	36,36,36,36	0
86	OHX	5	4097	7/7	0.91	0.16	132,132,132,132	0
85	MG	2	1980	1/1	0.91	0.23	68,68,68,68	0
86	OHX	5	4101	7/7	0.91	0.14	150,150,150,150	0
86	OHX	1	4160	7/7	0.91	0.17	147,147,147,147	0
86	OHX	5	4111	7/7	0.91	0.14	145,145,145,145	0
86	OHX	5	4118	7/7	0.91	0.16	139,139,139,139	0
86	OHX	5	4120	7/7	0.91	0.16	133,133,133,133	0
86	OHX	5	4129	7/7	0.91	0.12	150,150,150,150	0
86	OHX	5	4132	7/7	0.91	0.11	192,192,192,192	0
86	OHX	5	4133	7/7	0.91	0.17	132,132,132,132	0
85	MG	5	3418	1/1	0.91	0.28	28,28,28,28	0
86	OHX	1	4162	7/7	0.91	0.13	166,166,166,166	0
85	MG	1	3770	1/1	0.91	0.10	53,53,53,53	0
85	MG	1	3550	1/1	0.91	0.26	43,43,43,43	0
85	MG	1	3702	1/1	0.91	0.28	51,51,51,51	0
85	MG	1	3779	1/1	0.91	0.10	50,50,50,50	0
85	MG	1	3599	1/1	0.91	0.28	39,39,39,39	0
85	MG	1	3782	1/1	0.91	0.31	64,64,64,64	0
85	MG	1	3603	1/1	0.91	0.20	39,39,39,39	0
86	OHX	5	4156	7/7	0.91	0.15	142,142,142,142	0
85	MG	1	3707	1/1	0.91	0.15	55,55,55,55	0
86	OHX	1	4172	7/7	0.91	0.11	174,174,174,174	0
86	OHX	2	2109	7/7	0.91	0.15	140,140,140,140	0
86	OHX	2	2113	7/7	0.91	0.12	167,167,167,167	0
85	MG	4	209	1/1	0.91	0.10	53,53,53,53	0
86	OHX	5	4162	7/7	0.91	0.18	121,121,121,121	0
85	MG	2	1919	1/1	0.91	0.42	76,76,76,76	0
86	OHX	1	4177	7/7	0.91	0.08	238,238,238,238	0
86	OHX	5	4166	7/7	0.91	0.16	149,149,149,149	0
85	MG	1	3654	1/1	0.91	0.23	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2125	7/7	0.91	0.16	151,151,151,151	0
86	OHX	2	2128	7/7	0.91	0.14	143,143,143,143	0
85	MG	4	213	1/1	0.91	0.17	63,63,63,63	0
86	OHX	5	4176	7/7	0.91	0.18	148,148,148,148	0
86	OHX	2	2132	7/7	0.91	0.13	159,159,159,159	0
85	MG	5	3594	1/1	0.91	0.32	41,41,41,41	0
85	MG	4	214	1/1	0.91	0.09	47,47,47,47	0
85	MG	5	3792	1/1	0.91	0.14	36,36,36,36	0
85	MG	4	217	1/1	0.91	0.15	41,41,41,41	0
85	MG	2	2001	1/1	0.91	0.20	78,78,78,78	0
85	MG	1	3717	1/1	0.91	0.37	57,57,57,57	0
86	OHX	5	4187	7/7	0.91	0.18	133,133,133,133	0
85	MG	5	3614	1/1	0.91	0.10	34,34,34,34	0
86	OHX	2	2142	7/7	0.91	0.15	140,140,140,140	0
86	OHX	2	2143	7/7	0.91	0.21	138,138,138,138	0
86	OHX	5	4191	7/7	0.91	0.14	148,148,148,148	0
85	MG	5	3805	1/1	0.91	0.12	65,65,65,65	0
85	MG	1	3493	1/1	0.91	0.37	74,74,74,74	0
85	MG	5	3470	1/1	0.91	0.18	44,44,44,44	0
85	MG	6	2009	1/1	0.91	0.16	55,55,55,55	0
85	MG	6	2011	1/1	0.91	0.12	51,51,51,51	0
85	MG	1	3557	1/1	0.91	0.30	49,49,49,49	0
85	MG	1	3814	1/1	0.91	0.13	53,53,53,53	0
85	MG	1	3468	1/1	0.91	0.30	48,48,48,48	0
85	MG	1	3432	1/1	0.91	0.25	39,39,39,39	0
85	MG	6	2026	1/1	0.91	0.16	86,86,86,86	0
85	MG	6	1943	1/1	0.91	0.33	38,38,38,38	0
85	MG	1	3728	1/1	0.91	0.19	38,38,38,38	0
85	MG	6	1949	1/1	0.91	0.35	56,56,56,56	0
85	MG	6	2031	1/1	0.91	0.27	70,70,70,70	0
85	MG	5	3837	1/1	0.91	0.13	50,50,50,50	0
86	OHX	5	4214	7/7	0.91	0.18	133,133,133,133	0
85	MG	5	3844	1/1	0.91	0.16	59,59,59,59	0
85	MG	1	3824	1/1	0.91	0.12	45,45,45,45	0
85	MG	1	3826	1/1	0.91	0.17	29,29,29,29	0
85	MG	1	3827	1/1	0.91	0.19	52,52,52,52	0
85	MG	5	3495	1/1	0.91	0.13	36,36,36,36	0
85	MG	5	3855	1/1	0.91	0.25	54,54,54,54	0
85	MG	5	3857	1/1	0.91	0.19	65,65,65,65	0
85	MG	2	2008	1/1	0.91	0.40	48,48,48,48	0
85	MG	5	3656	1/1	0.91	0.10	59,59,59,59	0
85	MG	1	3570	1/1	0.91	0.34	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3866	1/1	0.91	0.31	54,54,54,54	0
86	OHX	2	2176	7/7	0.91	0.17	153,153,153,153	0
85	MG	5	3662	1/1	0.91	0.23	36,36,36,36	0
85	MG	N6	201	1/1	0.91	0.30	51,51,51,51	0
86	OHX	5	4232	7/7	0.91	0.11	179,179,179,179	0
85	MG	5	3668	1/1	0.91	0.15	34,34,34,34	0
86	OHX	6	2116	7/7	0.91	0.15	145,145,145,145	0
86	OHX	1	4060	7/7	0.91	0.13	158,158,158,158	0
85	MG	6	1959	1/1	0.91	0.36	51,51,51,51	0
86	OHX	6	2131	7/7	0.91	0.13	149,149,149,149	0
86	OHX	6	2133	7/7	0.91	0.14	161,161,161,161	0
86	OHX	6	2134	7/7	0.91	0.15	134,134,134,134	0
85	MG	6	1960	1/1	0.91	0.30	40,40,40,40	0
85	MG	1	3533	1/1	0.91	0.13	38,38,38,38	0
86	OHX	6	2141	7/7	0.91	0.11	174,174,174,174	0
85	MG	2	2002	1/1	0.91	0.24	80,80,80,80	0
86	OHX	1	4071	7/7	0.91	0.23	113,113,113,113	0
85	MG	1	3499	1/1	0.91	0.30	63,63,63,63	0
85	MG	5	3886	1/1	0.91	0.30	57,57,57,57	0
86	OHX	6	2153	7/7	0.91	0.13	145,145,145,145	0
86	OHX	1	4080	7/7	0.91	0.14	144,144,144,144	0
86	OHX	6	2157	7/7	0.91	0.14	145,145,145,145	0
86	OHX	1	4086	7/7	0.91	0.18	133,133,133,133	0
86	OHX	7	225	7/7	0.91	0.20	127,127,127,127	0
85	MG	5	3684	1/1	0.91	0.08	35,35,35,35	0
85	MG	5	3889	1/1	0.91	0.29	65,65,65,65	0
86	OHX	6	2165	7/7	0.91	0.14	157,157,157,157	0
86	OHX	8	231	7/7	0.91	0.17	138,138,138,138	0
86	OHX	6	2166	7/7	0.91	0.11	189,189,189,189	0
85	MG	5	3891	1/1	0.91	0.17	38,38,38,38	0
86	OHX	1	4095	7/7	0.91	0.13	153,153,153,153	0
86	OHX	15	304	7/7	0.91	0.15	148,148,148,148	0
86	OHX	1	4098	7/7	0.91	0.15	128,128,128,128	0
85	MG	1	3633	1/1	0.91	0.14	59,59,59,59	0
86	OHX	6	2172	7/7	0.91	0.17	155,155,155,155	0
85	MG	1	3442	1/1	0.91	0.24	30,30,30,30	0
86	OHX	1	4106	7/7	0.91	0.15	142,142,142,142	0
85	MG	5	3689	1/1	0.91	0.15	48,48,48,48	0
85	MG	5	3690	1/1	0.91	0.15	62,62,62,62	0
85	MG	5	3692	1/1	0.91	0.19	52,52,52,52	0
85	MG	1	3636	1/1	0.91	0.12	46,46,46,46	0
85	MG	6	1903	1/1	0.91	0.33	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	c8	202	1/1	0.91	0.30	66,66,66,66	0
86	OHX	1	4118	7/7	0.91	0.19	123,123,123,123	0
85	MG	1	3681	1/1	0.92	0.11	50,50,50,50	0
85	MG	1	3829	1/1	0.92	0.30	37,37,37,37	0
85	MG	5	3729	1/1	0.92	0.26	31,31,31,31	0
85	MG	8	212	1/1	0.92	0.17	43,43,43,43	0
85	MG	1	3831	1/1	0.92	0.26	24,24,24,24	0
86	OHX	1	4136	7/7	0.92	0.17	133,133,133,133	0
85	MG	1	3832	1/1	0.92	0.29	62,62,62,62	0
85	MG	1	3542	1/1	0.92	0.23	35,35,35,35	0
85	MG	1	3419	1/1	0.92	0.22	48,48,48,48	0
85	MG	1	3841	1/1	0.92	0.23	45,45,45,45	0
86	OHX	6	2200	7/7	0.92	0.16	156,156,156,156	0
85	MG	1	3639	1/1	0.92	0.13	70,70,70,70	0
85	MG	5	3546	1/1	0.92	0.29	45,45,45,45	0
86	OHX	1	4143	7/7	0.92	0.18	122,122,122,122	0
85	MG	m7	201	1/1	0.92	0.30	32,32,32,32	0
85	MG	5	3751	1/1	0.92	0.21	48,48,48,48	0
85	MG	5	3547	1/1	0.92	0.30	46,46,46,46	0
86	OHX	1	4147	7/7	0.92	0.13	152,152,152,152	0
85	MG	6	1974	1/1	0.92	0.20	58,58,58,58	0
85	MG	n8	204	1/1	0.92	0.16	43,43,43,43	0
86	OHX	1	4152	7/7	0.92	0.18	137,137,137,137	0
86	OHX	5	4027	7/7	0.92	0.16	112,112,112,112	0
85	MG	2	1983	1/1	0.92	0.19	71,71,71,71	0
85	MG	2	2014	1/1	0.92	0.29	61,61,61,61	0
85	MG	1	3422	1/1	0.92	0.27	32,32,32,32	0
85	MG	1	3849	1/1	0.92	0.32	58,58,58,58	0
86	OHX	2	2089	7/7	0.92	0.15	138,138,138,138	0
86	OHX	5	4108	7/7	0.92	0.15	135,135,135,135	0
85	MG	1	3850	1/1	0.92	0.18	45,45,45,45	0
85	MG	5	3567	1/1	0.92	0.28	28,28,28,28	0
86	OHX	5	4116	7/7	0.92	0.12	159,159,159,159	0
85	MG	6	1980	1/1	0.92	0.22	71,71,71,71	0
86	OHX	5	4119	7/7	0.92	0.17	125,125,125,125	0
86	OHX	2	2104	7/7	0.92	0.13	156,156,156,156	0
86	OHX	5	4121	7/7	0.92	0.12	154,154,154,154	0
86	OHX	5	4128	7/7	0.92	0.15	136,136,136,136	0
85	MG	1	3425	1/1	0.92	0.14	49,49,49,49	0
85	MG	5	3779	1/1	0.92	0.21	53,53,53,53	0
85	MG	1	3766	1/1	0.92	0.24	61,61,61,61	0
85	MG	1	3857	1/1	0.92	0.27	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3573	1/1	0.92	0.24	31,31,31,31	0
86	OHX	2	2123	7/7	0.92	0.13	151,151,151,151	0
85	MG	5	3784	1/1	0.92	0.16	33,33,33,33	0
86	OHX	2	2126	7/7	0.92	0.15	135,135,135,135	0
86	OHX	5	4145	7/7	0.92	0.17	142,142,142,142	0
85	MG	6	1908	1/1	0.92	0.28	49,49,49,49	0
85	MG	5	3789	1/1	0.92	0.09	36,36,36,36	0
86	OHX	5	4151	7/7	0.92	0.19	125,125,125,125	0
85	MG	1	3701	1/1	0.92	0.26	50,50,50,50	0
86	OHX	2	2133	7/7	0.92	0.11	163,163,163,163	0
85	MG	5	3432	1/1	0.92	0.22	42,42,42,42	0
85	MG	1	3517	1/1	0.92	0.27	33,33,33,33	0
85	MG	5	3589	1/1	0.92	0.28	28,28,28,28	0
85	MG	5	3794	1/1	0.92	0.14	36,36,36,36	0
85	MG	6	1992	1/1	0.92	0.13	54,54,54,54	0
85	MG	1	3772	1/1	0.92	0.12	62,62,62,62	0
85	MG	5	3442	1/1	0.92	0.18	30,30,30,30	0
85	MG	5	3444	1/1	0.92	0.27	40,40,40,40	0
85	MG	6	1994	1/1	0.92	0.30	46,46,46,46	0
85	MG	5	3604	1/1	0.92	0.14	38,38,38,38	0
86	OHX	5	4167	7/7	0.92	0.16	134,134,134,134	0
85	MG	5	3606	1/1	0.92	0.14	38,38,38,38	0
85	MG	5	3449	1/1	0.92	0.22	33,33,33,33	0
86	OHX	1	4190	7/7	0.92	0.13	157,157,157,157	0
86	OHX	5	4171	7/7	0.92	0.10	190,190,190,190	0
85	MG	1	4218	1/1	0.92	0.15	74,74,74,74	0
86	OHX	5	4173	7/7	0.92	0.23	111,111,111,111	0
85	MG	1	3518	1/1	0.92	0.31	29,29,29,29	0
85	MG	1	3776	1/1	0.92	0.21	35,35,35,35	0
85	MG	1	3605	1/1	0.92	0.09	57,57,57,57	0
86	OHX	5	4179	7/7	0.92	0.18	119,119,119,119	0
85	MG	1	3607	1/1	0.92	0.29	78,78,78,78	0
86	OHX	1	4197	7/7	0.92	0.15	140,140,140,140	0
85	MG	3	207	1/1	0.92	0.28	70,70,70,70	0
85	MG	5	3465	1/1	0.92	0.14	36,36,36,36	0
85	MG	6	2002	1/1	0.92	0.13	75,75,75,75	0
86	OHX	5	4186	7/7	0.92	0.17	131,131,131,131	0
85	MG	5	3469	1/1	0.92	0.25	37,37,37,37	0
85	MG	5	3834	1/1	0.92	0.12	68,68,68,68	0
85	MG	1	3519	1/1	0.92	0.25	41,41,41,41	0
85	MG	1	3460	1/1	0.92	0.27	35,35,35,35	0
85	MG	1	3490	1/1	0.92	0.07	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	1	3715	1/1	0.92	0.34	70,70,70,70	0
85	MG	5	3641	1/1	0.92	0.17	37,37,37,37	0
85	MG	1	3787	1/1	0.92	0.18	28,28,28,28	0
85	MG	2	2000	1/1	0.92	0.21	91,91,91,91	0
86	OHX	1	4210	7/7	0.92	0.20	135,135,135,135	0
85	MG	5	3646	1/1	0.92	0.14	55,55,55,55	0
85	MG	5	3647	1/1	0.92	0.25	38,38,38,38	0
85	MG	5	3648	1/1	0.92	0.34	54,54,54,54	0
86	OHX	3	221	7/7	0.92	0.12	150,150,150,150	0
86	OHX	3	222	7/7	0.92	0.18	131,131,131,131	0
86	OHX	5	4208	7/7	0.92	0.12	160,160,160,160	0
85	MG	1	3795	1/1	0.92	0.20	54,54,54,54	0
85	MG	1	3718	1/1	0.92	0.21	56,56,56,56	0
86	OHX	3	225	7/7	0.92	0.18	139,139,139,139	0
85	MG	6	2015	1/1	0.92	0.15	78,78,78,78	0
85	MG	4	210	1/1	0.92	0.22	58,58,58,58	0
85	MG	S2	302	1/1	0.92	0.32	66,66,66,66	0
86	OHX	5	4215	7/7	0.92	0.09	204,204,204,204	0
86	OHX	5	4216	7/7	0.92	0.17	152,152,152,152	0
85	MG	6	2022	1/1	0.92	0.12	57,57,57,57	0
85	MG	5	3660	1/1	0.92	0.17	30,30,30,30	0
86	OHX	L3	405	7/7	0.92	0.12	162,162,162,162	0
86	OHX	C5	201	7/7	0.92	0.11	179,179,179,179	0
86	OHX	D3	202	7/7	0.92	0.13	145,145,145,145	0
86	OHX	D9	102	7/7	0.92	0.14	153,153,153,153	0
86	OHX	1	4014	7/7	0.92	0.10	165,165,165,165	0
86	OHX	O3	202	7/7	0.92	0.17	126,126,126,126	0
86	OHX	6	2104	7/7	0.92	0.15	123,123,123,123	0
86	OHX	1	4025	7/7	0.92	0.17	125,125,125,125	0
86	OHX	1	4034	7/7	0.92	0.15	134,134,134,134	0
85	MG	2	1902	1/1	0.92	0.21	39,39,39,39	0
85	MG	1	3803	1/1	0.92	0.14	38,38,38,38	0
86	OHX	6	2127	7/7	0.92	0.14	132,132,132,132	0
85	MG	5	3882	1/1	0.92	0.18	32,32,32,32	0
85	MG	1	3436	1/1	0.92	0.23	43,43,43,43	0
85	MG	5	3885	1/1	0.92	0.21	34,34,34,34	0
85	MG	4	216	1/1	0.92	0.20	61,61,61,61	0
85	MG	5	3496	1/1	0.92	0.27	32,32,32,32	0
86	OHX	1	4078	7/7	0.92	0.17	138,138,138,138	0
85	MG	5	3497	1/1	0.92	0.10	43,43,43,43	0
85	MG	5	3890	1/1	0.92	0.23	53,53,53,53	0
86	OHX	1	4081	7/7	0.92	0.17	136,136,136,136	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	4082	7/7	0.92	0.13	144,144,144,144	0
85	MG	2	1911	1/1	0.92	0.29	55,55,55,55	0
86	OHX	1	4088	7/7	0.92	0.14	141,141,141,141	0
85	MG	4	219	1/1	0.92	0.16	50,50,50,50	0
85	MG	1	3811	1/1	0.92	0.12	51,51,51,51	0
86	OHX	6	2162	7/7	0.92	0.14	137,137,137,137	0
85	MG	6	1947	1/1	0.92	0.29	52,52,52,52	0
85	MG	1	3579	1/1	0.92	0.33	40,40,40,40	0
85	MG	2	1935	1/1	0.92	0.36	50,50,50,50	0
86	OHX	5	4251	7/7	0.92	0.12	168,168,168,168	0
85	MG	L7	303	1/1	0.92	0.26	56,56,56,56	0
85	MG	1	3581	1/1	0.92	0.24	34,34,34,34	0
86	OHX	1	4103	7/7	0.92	0.17	133,133,133,133	0
85	MG	SM	301	1/1	0.92	0.15	57,57,57,57	0
85	MG	5	3514	1/1	0.92	0.20	39,39,39,39	0
85	MG	5	3700	1/1	0.92	0.09	40,40,40,40	0
85	MG	5	3705	1/1	0.92	0.05	41,41,41,41	0
85	MG	5	3708	1/1	0.92	0.29	48,48,48,48	0
85	MG	5	3515	1/1	0.92	0.23	32,32,32,32	0
86	OHX	6	2176	7/7	0.92	0.19	127,127,127,127	0
86	OHX	1	4115	7/7	0.92	0.14	144,144,144,144	0
85	MG	1	3819	1/1	0.92	0.11	45,45,45,45	0
85	MG	7	209	1/1	0.92	0.22	42,42,42,42	0
85	MG	7	210	1/1	0.92	0.17	64,64,64,64	0
85	MG	M5	301	1/1	0.92	0.10	48,48,48,48	0
86	OHX	1	4121	7/7	0.92	0.20	117,117,117,117	0
85	MG	5	3519	1/1	0.92	0.33	31,31,31,31	0
86	OHX	1	4125	7/7	0.92	0.14	156,156,156,156	0
85	MG	1	3501	1/1	0.92	0.33	27,27,27,27	0
85	MG	5	3521	1/1	0.92	0.28	35,35,35,35	0
85	MG	2	2011	1/1	0.92	0.30	63,63,63,63	0
85	MG	M7	203	1/1	0.92	0.09	40,40,40,40	0
85	MG	5	3851	1/1	0.93	0.27	58,58,58,58	0
85	MG	2	1987	1/1	0.93	0.25	72,72,72,72	0
86	OHX	sR	401	7/7	0.93	0.10	169,169,169,169	0
85	MG	5	3856	1/1	0.93	0.13	76,76,76,76	0
85	MG	5	3532	1/1	0.93	0.26	36,36,36,36	0
86	OHX	5	4036	7/7	0.93	0.12	135,135,135,135	0
85	MG	5	3683	1/1	0.93	0.12	36,36,36,36	0
86	OHX	5	4063	7/7	0.93	0.13	136,136,136,136	0
86	OHX	5	4075	7/7	0.93	0.18	128,128,128,128	0
86	OHX	5	4076	7/7	0.93	0.14	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	5	4087	7/7	0.93	0.14	131,131,131,131	0
86	OHX	5	4088	7/7	0.93	0.17	123,123,123,123	0
86	OHX	5	4089	7/7	0.93	0.21	120,120,120,120	0
86	OHX	5	4092	7/7	0.93	0.16	125,125,125,125	0
85	MG	4	202	1/1	0.93	0.30	49,49,49,49	0
85	MG	S2	301	1/1	0.93	0.33	52,52,52,52	0
85	MG	1	3429	1/1	0.93	0.42	42,42,42,42	0
85	MG	5	3688	1/1	0.93	0.16	46,46,46,46	0
86	OHX	5	4102	7/7	0.93	0.17	113,113,113,113	0
86	OHX	5	4103	7/7	0.93	0.10	158,158,158,158	0
86	OHX	5	4106	7/7	0.93	0.16	120,120,120,120	0
85	MG	1	3807	1/1	0.93	0.17	41,41,41,41	0
85	MG	1	3525	1/1	0.93	0.24	26,26,26,26	0
85	MG	5	3691	1/1	0.93	0.27	40,40,40,40	0
85	MG	1	3813	1/1	0.93	0.17	52,52,52,52	0
85	MG	1	3736	1/1	0.93	0.18	56,56,56,56	0
85	MG	1	3738	1/1	0.93	0.30	67,67,67,67	0
86	OHX	2	2164	7/7	0.93	0.12	172,172,172,172	0
86	OHX	2	2166	7/7	0.93	0.17	129,129,129,129	0
86	OHX	5	4123	7/7	0.93	0.13	141,141,141,141	0
85	MG	1	3745	1/1	0.93	0.12	56,56,56,56	0
86	OHX	2	2168	7/7	0.93	0.14	145,145,145,145	0
85	MG	5	3704	1/1	0.93	0.22	64,64,64,64	0
85	MG	5	3548	1/1	0.93	0.25	50,50,50,50	0
86	OHX	5	4134	7/7	0.93	0.14	136,136,136,136	0
86	OHX	5	4135	7/7	0.93	0.16	128,128,128,128	0
86	OHX	5	4137	7/7	0.93	0.18	135,135,135,135	0
85	MG	5	3439	1/1	0.93	0.24	41,41,41,41	0
85	MG	1	3683	1/1	0.93	0.17	52,52,52,52	0
85	MG	5	3713	1/1	0.93	0.12	43,43,43,43	0
85	MG	1	3553	1/1	0.93	0.27	36,36,36,36	0
85	MG	1	3554	1/1	0.93	0.31	25,25,25,25	0
85	MG	5	3445	1/1	0.93	0.07	40,40,40,40	0
85	MG	5	3721	1/1	0.93	0.12	56,56,56,56	0
85	MG	1	3641	1/1	0.93	0.19	44,44,44,44	0
86	OHX	5	4149	7/7	0.93	0.13	136,136,136,136	0
86	OHX	5	4150	7/7	0.93	0.13	153,153,153,153	0
85	MG	1	3469	1/1	0.93	0.30	56,56,56,56	0
86	OHX	5	4152	7/7	0.93	0.12	158,158,158,158	0
86	OHX	C3	201	7/7	0.93	0.10	179,179,179,179	0
85	MG	1	3756	1/1	0.93	0.09	52,52,52,52	0
85	MG	1	3830	1/1	0.93	0.24	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3695	1/1	0.93	0.19	47,47,47,47	0
86	OHX	1	3950	7/7	0.93	0.18	109,109,109,109	0
86	OHX	1	3963	7/7	0.93	0.13	124,124,124,124	0
86	OHX	1	3994	7/7	0.93	0.14	171,171,171,171	0
85	MG	5	3458	1/1	0.93	0.14	35,35,35,35	0
86	OHX	1	4016	7/7	0.93	0.14	140,140,140,140	0
86	OHX	1	4018	7/7	0.93	0.14	129,129,129,129	0
85	MG	5	3461	1/1	0.93	0.30	53,53,53,53	0
85	MG	1	3763	1/1	0.93	0.12	43,43,43,43	0
86	OHX	1	4044	7/7	0.93	0.17	120,120,120,120	0
86	OHX	1	4056	7/7	0.93	0.17	125,125,125,125	0
85	MG	5	3577	1/1	0.93	0.25	38,38,38,38	0
85	MG	1	3407	1/1	0.93	0.24	39,39,39,39	0
85	MG	6	2016	1/1	0.93	0.17	30,30,30,30	0
86	OHX	1	4065	7/7	0.93	0.17	123,123,123,123	0
85	MG	6	2018	1/1	0.93	0.11	59,59,59,59	0
85	MG	M3	203	1/1	0.93	0.13	33,33,33,33	0
86	OHX	1	4069	7/7	0.93	0.13	140,140,140,140	0
85	MG	5	3746	1/1	0.93	0.12	66,66,66,66	0
86	OHX	3	226	7/7	0.93	0.15	149,149,149,149	0
86	OHX	1	4073	7/7	0.93	0.14	135,135,135,135	0
85	MG	1	3645	1/1	0.93	0.23	42,42,42,42	0
86	OHX	1	4076	7/7	0.93	0.17	129,129,129,129	0
85	MG	6	2021	1/1	0.93	0.25	62,62,62,62	0
85	MG	2	1916	1/1	0.93	0.23	54,54,54,54	0
85	MG	5	3599	1/1	0.93	0.15	46,46,46,46	0
85	MG	8	201	1/1	0.93	0.13	52,52,52,52	0
86	OHX	M0	303	7/7	0.93	0.13	124,124,124,124	0
85	MG	6	2023	1/1	0.93	0.28	48,48,48,48	0
86	OHX	1	4083	7/7	0.93	0.14	137,137,137,137	0
86	OHX	1	4085	7/7	0.93	0.14	142,142,142,142	0
86	OHX	5	4192	7/7	0.93	0.15	132,132,132,132	0
85	MG	5	3760	1/1	0.93	0.14	57,57,57,57	0
85	MG	1	3488	1/1	0.93	0.17	35,35,35,35	0
86	OHX	5	4195	7/7	0.93	0.11	176,176,176,176	0
86	OHX	1	4090	7/7	0.93	0.17	128,128,128,128	0
85	MG	1	3561	1/1	0.93	0.29	25,25,25,25	0
85	MG	8	209	1/1	0.93	0.17	70,70,70,70	0
86	OHX	5	4200	7/7	0.93	0.15	124,124,124,124	0
86	OHX	5	4202	7/7	0.93	0.17	129,129,129,129	0
86	OHX	6	2124	7/7	0.93	0.15	141,141,141,141	0
85	MG	5	3764	1/1	0.93	0.31	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	3477	1/1	0.93	0.24	56,56,56,56	0
86	OHX	1	4096	7/7	0.93	0.12	159,159,159,159	0
86	OHX	6	2132	7/7	0.93	0.16	133,133,133,133	0
85	MG	1	3510	1/1	0.93	0.25	34,34,34,34	0
85	MG	5	3609	1/1	0.93	0.25	31,31,31,31	0
86	OHX	6	2135	7/7	0.93	0.12	145,145,145,145	0
86	OHX	1	4100	7/7	0.93	0.14	145,145,145,145	0
85	MG	5	3775	1/1	0.93	0.23	30,30,30,30	0
86	OHX	6	2140	7/7	0.93	0.15	138,138,138,138	0
85	MG	1	3473	1/1	0.93	0.27	32,32,32,32	0
86	OHX	6	2143	7/7	0.93	0.12	154,154,154,154	0
85	MG	1	3775	1/1	0.93	0.11	55,55,55,55	0
86	OHX	1	4107	7/7	0.93	0.14	132,132,132,132	0
86	OHX	6	2150	7/7	0.93	0.17	125,125,125,125	0
85	MG	6	2033	1/1	0.93	0.33	64,64,64,64	0
86	OHX	1	4109	7/7	0.93	0.18	123,123,123,123	0
85	MG	5	3620	1/1	0.93	0.10	41,41,41,41	0
85	MG	m5	303	1/1	0.93	0.20	57,57,57,57	0
86	OHX	6	2156	7/7	0.93	0.18	144,144,144,144	0
85	MG	m5	304	1/1	0.93	0.19	108,108,108,108	0
85	MG	5	3482	1/1	0.93	0.28	29,29,29,29	0
86	OHX	6	2160	7/7	0.93	0.15	133,133,133,133	0
85	MG	5	3625	1/1	0.93	0.23	39,39,39,39	0
85	MG	1	3564	1/1	0.93	0.18	38,38,38,38	0
85	MG	1	3777	1/1	0.93	0.15	66,66,66,66	0
85	MG	1	3569	1/1	0.93	0.21	26,26,26,26	0
85	MG	N8	201	1/1	0.93	0.09	31,31,31,31	0
85	MG	1	3514	1/1	0.93	0.29	37,37,37,37	0
86	OHX	1	4122	7/7	0.93	0.14	146,146,146,146	0
86	OHX	1	4123	7/7	0.93	0.12	153,153,153,153	0
85	MG	1	3617	1/1	0.93	0.21	45,45,45,45	0
85	MG	5	3636	1/1	0.93	0.13	54,54,54,54	0
85	MG	1	3474	1/1	0.93	0.22	23,23,23,23	0
85	MG	1	3401	1/1	0.93	0.27	38,38,38,38	0
85	MG	1	4216	1/1	0.93	0.17	48,48,48,48	0
85	MG	6	1901	1/1	0.93	0.32	42,42,42,42	0
85	MG	5	3804	1/1	0.93	0.14	42,42,42,42	0
86	OHX	2	2105	7/7	0.93	0.10	206,206,206,206	0
85	MG	1	3621	1/1	0.93	0.11	43,43,43,43	0
85	MG	1	3786	1/1	0.93	0.16	36,36,36,36	0
85	MG	6	1972	1/1	0.93	0.18	53,53,53,53	0
86	OHX	2	2118	7/7	0.93	0.14	149,149,149,149	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2119	7/7	0.93	0.12	165,165,165,165	0
85	MG	1	3622	1/1	0.93	0.23	49,49,49,49	0
85	MG	2	1932	1/1	0.93	0.20	59,59,59,59	0
85	MG	5	3505	1/1	0.93	0.26	26,26,26,26	0
85	MG	5	3813	1/1	0.93	0.18	42,42,42,42	0
85	MG	1	3790	1/1	0.93	0.16	60,60,60,60	0
86	OHX	2	2127	7/7	0.93	0.14	142,142,142,142	0
85	MG	3	206	1/1	0.93	0.28	36,36,36,36	0
85	MG	1	3544	1/1	0.93	0.27	34,34,34,34	0
85	MG	1	3796	1/1	0.93	0.30	39,39,39,39	0
85	MG	1	3477	1/1	0.93	0.32	52,52,52,52	0
85	MG	1	3413	1/1	0.93	0.24	47,47,47,47	0
86	OHX	l5	303	7/7	0.93	0.11	147,147,147,147	0
85	MG	5	3661	1/1	0.93	0.14	46,46,46,46	0
86	OHX	1	4151	7/7	0.93	0.15	139,139,139,139	0
85	MG	6	1916	1/1	0.93	0.21	52,52,52,52	0
85	MG	1	3672	1/1	0.93	0.26	49,49,49,49	0
85	MG	6	1987	1/1	0.93	0.09	48,48,48,48	0
85	MG	5	3839	1/1	0.93	0.20	39,39,39,39	0
85	MG	5	3843	1/1	0.93	0.11	42,42,42,42	0
85	MG	5	3669	1/1	0.93	0.09	33,33,33,33	0
86	OHX	s4	301	7/7	0.93	0.13	149,149,149,149	0
85	MG	6	1918	1/1	0.93	0.34	64,64,64,64	0
85	MG	6	1919	1/1	0.93	0.30	43,43,43,43	0
85	MG	5	3417	1/1	0.93	0.24	29,29,29,29	0
88	ZN	Q2	501	1/1	0.93	0.24	92,92,92,92	0
85	MG	5	3680	1/1	0.93	0.22	52,52,52,52	0
85	MG	6	1942	1/1	0.94	0.20	32,32,32,32	0
85	MG	L7	302	1/1	0.94	0.09	42,42,42,42	0
86	OHX	2	2115	7/7	0.94	0.12	164,164,164,164	0
86	OHX	c8	203	7/7	0.94	0.10	153,153,153,153	0
85	MG	6	2024	1/1	0.94	0.17	66,66,66,66	0
85	MG	1	3541	1/1	0.94	0.24	27,27,27,27	0
85	MG	5	3617	1/1	0.94	0.17	35,35,35,35	0
86	OHX	5	3996	7/7	0.94	0.13	115,115,115,115	0
86	OHX	5	4000	7/7	0.94	0.14	117,117,117,117	0
85	MG	1	3426	1/1	0.94	0.15	59,59,59,59	0
85	MG	5	3619	1/1	0.94	0.26	46,46,46,46	0
86	OHX	5	4032	7/7	0.94	0.15	119,119,119,119	0
85	MG	1	3565	1/1	0.94	0.32	29,29,29,29	0
86	OHX	5	4037	7/7	0.94	0.12	125,125,125,125	0
86	OHX	5	4041	7/7	0.94	0.13	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	5	4042	7/7	0.94	0.12	138,138,138,138	0
86	OHX	5	4051	7/7	0.94	0.14	117,117,117,117	0
86	OHX	1	4150	7/7	0.94	0.14	120,120,120,120	0
86	OHX	2	2124	7/7	0.94	0.14	145,145,145,145	0
86	OHX	5	4070	7/7	0.94	0.14	135,135,135,135	0
86	OHX	5	4071	7/7	0.94	0.14	137,137,137,137	0
86	OHX	5	4073	7/7	0.94	0.14	122,122,122,122	0
85	MG	1	3611	1/1	0.94	0.07	43,43,43,43	0
85	MG	5	3624	1/1	0.94	0.26	46,46,46,46	0
86	OHX	5	4079	7/7	0.94	0.14	139,139,139,139	0
86	OHX	5	4084	7/7	0.94	0.11	144,144,144,144	0
85	MG	1	3833	1/1	0.94	0.25	30,30,30,30	0
85	MG	6	2032	1/1	0.94	0.11	51,51,51,51	0
86	OHX	2	2129	7/7	0.94	0.12	149,149,149,149	0
85	MG	1	3457	1/1	0.94	0.13	27,27,27,27	0
86	OHX	5	4095	7/7	0.94	0.13	128,128,128,128	0
85	MG	5	3801	1/1	0.94	0.17	78,78,78,78	0
85	MG	5	3803	1/1	0.94	0.06	40,40,40,40	0
86	OHX	5	4098	7/7	0.94	0.13	144,144,144,144	0
85	MG	1	3441	1/1	0.94	0.23	46,46,46,46	0
86	OHX	5	4100	7/7	0.94	0.13	136,136,136,136	0
85	MG	1	3706	1/1	0.94	0.14	63,63,63,63	0
85	MG	5	3806	1/1	0.94	0.11	53,53,53,53	0
85	MG	5	3484	1/1	0.94	0.11	51,51,51,51	0
86	OHX	5	4105	7/7	0.94	0.18	111,111,111,111	0
85	MG	1	3771	1/1	0.94	0.20	52,52,52,52	0
85	MG	M7	204	1/1	0.94	0.10	66,66,66,66	0
85	MG	1	3459	1/1	0.94	0.31	62,62,62,62	0
85	MG	1	3845	1/1	0.94	0.31	53,53,53,53	0
86	OHX	5	4114	7/7	0.94	0.16	124,124,124,124	0
86	OHX	5	4115	7/7	0.94	0.16	125,125,125,125	0
85	MG	5	3492	1/1	0.94	0.16	47,47,47,47	0
85	MG	5	3493	1/1	0.94	0.10	45,45,45,45	0
85	MG	5	3642	1/1	0.94	0.24	54,54,54,54	0
85	MG	1	3655	1/1	0.94	0.17	41,41,41,41	0
85	MG	1	3577	1/1	0.94	0.29	25,25,25,25	0
85	MG	N3	201	1/1	0.94	0.19	33,33,33,33	0
86	OHX	5	4124	7/7	0.94	0.12	157,157,157,157	0
86	OHX	5	4125	7/7	0.94	0.11	154,154,154,154	0
85	MG	1	3713	1/1	0.94	0.10	46,46,46,46	0
86	OHX	2	2151	7/7	0.94	0.14	154,154,154,154	0
85	MG	5	3829	1/1	0.94	0.26	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	s1	301	1/1	0.94	0.20	78,78,78,78	0
85	MG	1	3522	1/1	0.94	0.30	33,33,33,33	0
85	MG	2	1981	1/1	0.94	0.34	62,62,62,62	0
86	OHX	5	4136	7/7	0.94	0.12	140,140,140,140	0
85	MG	5	3836	1/1	0.94	0.08	39,39,39,39	0
85	MG	5	3501	1/1	0.94	0.16	44,44,44,44	0
85	MG	6	1969	1/1	0.94	0.20	54,54,54,54	0
85	MG	5	3841	1/1	0.94	0.08	59,59,59,59	0
85	MG	5	3655	1/1	0.94	0.25	66,66,66,66	0
85	MG	N8	202	1/1	0.94	0.17	32,32,32,32	0
86	OHX	5	4144	7/7	0.94	0.15	123,123,123,123	0
85	MG	1	3463	1/1	0.94	0.29	25,25,25,25	0
85	MG	5	3658	1/1	0.94	0.21	47,47,47,47	0
85	MG	5	3659	1/1	0.94	0.18	49,49,49,49	0
86	OHX	2	2165	7/7	0.94	0.10	167,167,167,167	0
85	MG	1	3549	1/1	0.94	0.16	29,29,29,29	0
85	MG	5	3849	1/1	0.94	0.10	54,54,54,54	0
85	MG	5	3507	1/1	0.94	0.29	27,27,27,27	0
85	MG	2	2009	1/1	0.94	0.28	50,50,50,50	0
85	MG	5	3663	1/1	0.94	0.32	48,48,48,48	0
85	MG	5	3511	1/1	0.94	0.18	34,34,34,34	0
85	MG	5	3665	1/1	0.94	0.12	58,58,58,58	0
85	MG	1	3859	1/1	0.94	0.22	131,131,131,131	0
85	MG	1	3783	1/1	0.94	0.13	51,51,51,51	0
85	MG	2	1955	1/1	0.94	0.25	54,54,54,54	0
85	MG	1	3588	1/1	0.94	0.25	31,31,31,31	0
85	MG	1	3723	1/1	0.94	0.08	43,43,43,43	0
86	OHX	5	4163	7/7	0.94	0.16	123,123,123,123	0
85	MG	5	3870	1/1	0.94	0.22	39,39,39,39	0
85	MG	5	3405	1/1	0.94	0.18	32,32,32,32	0
85	MG	5	3874	1/1	0.94	0.40	54,54,54,54	0
85	MG	5	3518	1/1	0.94	0.23	26,26,26,26	0
85	MG	1	3630	1/1	0.94	0.15	36,36,36,36	0
85	MG	5	3408	1/1	0.94	0.13	33,33,33,33	0
85	MG	5	3879	1/1	0.94	0.18	42,42,42,42	0
85	MG	1	3788	1/1	0.94	0.12	68,68,68,68	0
86	OHX	1	3980	7/7	0.94	0.14	112,112,112,112	0
85	MG	5	3881	1/1	0.94	0.15	34,34,34,34	0
86	OHX	5	4175	7/7	0.94	0.16	133,133,133,133	0
86	OHX	1	3998	7/7	0.94	0.16	120,120,120,120	0
86	OHX	1	4006	7/7	0.94	0.15	128,128,128,128	0
86	OHX	1	4009	7/7	0.94	0.12	136,136,136,136	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	4	231	7/7	0.94	0.12	124,124,124,124	0
86	OHX	4	232	7/7	0.94	0.11	147,147,147,147	0
85	MG	1	3631	1/1	0.94	0.07	40,40,40,40	0
85	MG	3	202	1/1	0.94	0.11	46,46,46,46	0
85	MG	1	3552	1/1	0.94	0.37	31,31,31,31	0
86	OHX	1	4021	7/7	0.94	0.10	153,153,153,153	0
85	MG	5	3529	1/1	0.94	0.24	29,29,29,29	0
86	OHX	1	4027	7/7	0.94	0.12	141,141,141,141	0
86	OHX	1	4029	7/7	0.94	0.14	138,138,138,138	0
85	MG	3	204	1/1	0.94	0.37	57,57,57,57	0
86	OHX	1	4042	7/7	0.94	0.15	117,117,117,117	0
86	OHX	1	4043	7/7	0.94	0.14	117,117,117,117	0
85	MG	1	3445	1/1	0.94	0.20	46,46,46,46	0
86	OHX	1	4048	7/7	0.94	0.15	125,125,125,125	0
86	OHX	6	2094	7/7	0.94	0.13	135,135,135,135	0
86	OHX	1	4053	7/7	0.94	0.19	119,119,119,119	0
85	MG	5	3534	1/1	0.94	0.23	36,36,36,36	0
86	OHX	6	2107	7/7	0.94	0.14	120,120,120,120	0
85	MG	5	3536	1/1	0.94	0.30	41,41,41,41	0
86	OHX	6	2118	7/7	0.94	0.12	143,143,143,143	0
85	MG	1	3731	1/1	0.94	0.19	59,59,59,59	0
85	MG	6	1915	1/1	0.94	0.24	53,53,53,53	0
86	OHX	6	2125	7/7	0.94	0.14	142,142,142,142	0
85	MG	5	3701	1/1	0.94	0.12	63,63,63,63	0
85	MG	5	3703	1/1	0.94	0.10	65,65,65,65	0
85	MG	1	3675	1/1	0.94	0.29	60,60,60,60	0
85	MG	5	3541	1/1	0.94	0.27	34,34,34,34	0
86	OHX	1	4070	7/7	0.94	0.13	152,152,152,152	0
85	MG	5	3426	1/1	0.94	0.16	38,38,38,38	0
85	MG	1	3447	1/1	0.94	0.25	47,47,47,47	0
86	OHX	1	4074	7/7	0.94	0.14	134,134,134,134	0
85	MG	5	3712	1/1	0.94	0.17	90,90,90,90	0
85	MG	1	3800	1/1	0.94	0.11	56,56,56,56	0
85	MG	1	3531	1/1	0.94	0.21	24,24,24,24	0
85	MG	5	3717	1/1	0.94	0.19	52,52,52,52	0
86	OHX	6	2145	7/7	0.94	0.12	139,139,139,139	0
85	MG	3	213	1/1	0.94	0.31	58,58,58,58	0
85	MG	5	3434	1/1	0.94	0.16	36,36,36,36	0
85	MG	1	3434	1/1	0.94	0.08	49,49,49,49	0
85	MG	1	3472	1/1	0.94	0.07	38,38,38,38	0
85	MG	5	3552	1/1	0.94	0.17	45,45,45,45	0
85	MG	1	3739	1/1	0.94	0.13	49,49,49,49	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	0.94	0.30	36,36,36,36	0
85	MG	5	3556	1/1	0.94	0.22	42,42,42,42	0
85	MG	1	3744	1/1	0.94	0.13	39,39,39,39	0
85	MG	5	3560	1/1	0.94	0.30	36,36,36,36	0
85	MG	5	3730	1/1	0.94	0.13	52,52,52,52	0
86	OHX	6	2161	7/7	0.94	0.15	129,129,129,129	0
85	MG	1	3810	1/1	0.94	0.24	44,44,44,44	0
85	MG	2	2004	1/1	0.94	0.20	87,87,87,87	0
85	MG	8	208	1/1	0.94	0.15	45,45,45,45	0
85	MG	5	3448	1/1	0.94	0.23	52,52,52,52	0
85	MG	5	3735	1/1	0.94	0.09	42,42,42,42	0
85	MG	1	3640	1/1	0.94	0.24	42,42,42,42	0
86	OHX	1	4102	7/7	0.94	0.14	130,130,130,130	0
85	MG	5	3450	1/1	0.94	0.24	38,38,38,38	0
86	OHX	6	2170	7/7	0.94	0.18	119,119,119,119	0
85	MG	13	401	1/1	0.94	0.35	27,27,27,27	0
85	MG	5	3744	1/1	0.94	0.25	42,42,42,42	0
85	MG	5	3451	1/1	0.94	0.12	33,33,33,33	0
85	MG	1	3600	1/1	0.94	0.20	30,30,30,30	0
85	MG	17	301	1/1	0.94	0.24	47,47,47,47	0
85	MG	1	3690	1/1	0.94	0.13	40,40,40,40	0
85	MG	18	301	1/1	0.94	0.33	73,73,73,73	0
86	OHX	1	4113	7/7	0.94	0.15	131,131,131,131	0
85	MG	5	3455	1/1	0.94	0.20	43,43,43,43	0
85	MG	5	3578	1/1	0.94	0.36	37,37,37,37	0
85	MG	m5	302	1/1	0.94	0.13	60,60,60,60	0
86	OHX	7	222	7/7	0.94	0.12	140,140,140,140	0
86	OHX	7	223	7/7	0.94	0.15	122,122,122,122	0
85	MG	5	3755	1/1	0.94	0.20	58,58,58,58	0
85	MG	1	3750	1/1	0.94	0.16	60,60,60,60	0
85	MG	m6	201	1/1	0.94	0.14	36,36,36,36	0
85	MG	1	3751	1/1	0.94	0.09	44,44,44,44	0
85	MG	5	3459	1/1	0.94	0.20	41,41,41,41	0
86	OHX	8	230	7/7	0.94	0.12	150,150,150,150	0
85	MG	5	3460	1/1	0.94	0.22	33,33,33,33	0
85	MG	1	3752	1/1	0.94	0.17	31,31,31,31	0
86	OHX	13	404	7/7	0.94	0.13	143,143,143,143	0
85	MG	5	3592	1/1	0.94	0.21	27,27,27,27	0
85	MG	5	3765	1/1	0.94	0.07	60,60,60,60	0
85	MG	5	3767	1/1	0.94	0.11	45,45,45,45	0
85	MG	5	3593	1/1	0.94	0.26	29,29,29,29	0
85	MG	1	3823	1/1	0.94	0.11	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2076	7/7	0.94	0.13	152,152,152,152	0
86	OHX	2	2081	7/7	0.94	0.12	161,161,161,161	0
86	OHX	2	2082	7/7	0.94	0.14	138,138,138,138	0
86	OHX	6	2197	7/7	0.94	0.14	148,148,148,148	0
85	MG	6	2017	1/1	0.94	0.28	47,47,47,47	0
85	MG	1	3601	1/1	0.94	0.25	31,31,31,31	0
86	OHX	1	4135	7/7	0.94	0.14	115,115,115,115	0
85	MG	1	3492	1/1	0.94	0.20	69,69,69,69	0
85	MG	L4	401	1/1	0.94	0.13	68,68,68,68	0
87	PCY	6	2204	40/40	0.94	0.11	59,59,59,59	0
85	MG	5	3468	1/1	0.94	0.33	46,46,46,46	0
85	MG	1	3412	1/1	0.94	0.14	36,36,36,36	0
86	OHX	2	2107	7/7	0.94	0.13	140,140,140,140	0
88	ZN	q2	501	1/1	0.94	0.26	95,95,95,95	0
85	MG	1	3575	1/1	0.95	0.24	28,28,28,28	0
85	MG	1	4219	1/1	0.95	0.26	39,39,39,39	0
85	MG	1	3576	1/1	0.95	0.19	28,28,28,28	0
85	MG	o3	201	1/1	0.95	0.17	37,37,37,37	0
85	MG	5	3771	1/1	0.95	0.18	71,71,71,71	0
85	MG	1	4221	1/1	0.95	0.23	40,40,40,40	0
85	MG	5	3603	1/1	0.95	0.17	42,42,42,42	0
85	MG	q3	503	1/1	0.95	0.11	63,63,63,63	0
86	OHX	2	2041	7/7	0.95	0.14	103,103,103,103	0
86	OHX	2	2064	7/7	0.95	0.10	137,137,137,137	0
85	MG	1	3440	1/1	0.95	0.24	41,41,41,41	0
86	OHX	5	3994	7/7	0.95	0.31	105,105,105,105	0
86	OHX	2	2077	7/7	0.95	0.14	141,141,141,141	0
86	OHX	2	2079	7/7	0.95	0.11	135,135,135,135	0
86	OHX	2	2080	7/7	0.95	0.14	130,130,130,130	0
86	OHX	5	4021	7/7	0.95	0.14	107,107,107,107	0
86	OHX	5	4023	7/7	0.95	0.12	115,115,115,115	0
86	OHX	5	4026	7/7	0.95	0.15	116,116,116,116	0
85	MG	5	3777	1/1	0.95	0.23	61,61,61,61	0
85	MG	5	3605	1/1	0.95	0.07	31,31,31,31	0
85	MG	5	3466	1/1	0.95	0.10	37,37,37,37	0
85	MG	5	3607	1/1	0.95	0.22	51,51,51,51	0
86	OHX	5	4040	7/7	0.95	0.12	132,132,132,132	0
85	MG	6	2010	1/1	0.95	0.26	56,56,56,56	0
86	OHX	2	2098	7/7	0.95	0.09	174,174,174,174	0
86	OHX	5	4043	7/7	0.95	0.14	122,122,122,122	0
86	OHX	5	4045	7/7	0.95	0.13	130,130,130,130	0
85	MG	6	1913	1/1	0.95	0.26	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	4052	7/7	0.95	0.14	115,115,115,115	0
86	OHX	5	4054	7/7	0.95	0.12	115,115,115,115	0
86	OHX	5	4057	7/7	0.95	0.11	137,137,137,137	0
86	OHX	5	4061	7/7	0.95	0.14	116,116,116,116	0
86	OHX	2	2102	7/7	0.95	0.11	148,148,148,148	0
85	MG	5	3783	1/1	0.95	0.20	60,60,60,60	0
86	OHX	5	4068	7/7	0.95	0.14	117,117,117,117	0
86	OHX	5	4069	7/7	0.95	0.10	143,143,143,143	0
85	MG	1	3578	1/1	0.95	0.33	34,34,34,34	0
86	OHX	2	2106	7/7	0.95	0.12	127,127,127,127	0
85	MG	5	3785	1/1	0.95	0.08	35,35,35,35	0
86	OHX	5	4074	7/7	0.95	0.12	125,125,125,125	0
85	MG	1	3620	1/1	0.95	0.32	45,45,45,45	0
85	MG	5	3616	1/1	0.95	0.13	49,49,49,49	0
86	OHX	2	2114	7/7	0.95	0.12	138,138,138,138	0
86	OHX	5	4080	7/7	0.95	0.12	122,122,122,122	0
86	OHX	5	4082	7/7	0.95	0.15	114,114,114,114	0
85	MG	6	2014	1/1	0.95	0.15	48,48,48,48	0
86	OHX	5	4086	7/7	0.95	0.13	132,132,132,132	0
85	MG	1	3496	1/1	0.95	0.15	38,38,38,38	0
85	MG	5	3473	1/1	0.95	0.19	43,43,43,43	0
85	MG	2	1995	1/1	0.95	0.27	49,49,49,49	0
85	MG	3	205	1/1	0.95	0.21	37,37,37,37	0
85	MG	5	3795	1/1	0.95	0.16	43,43,43,43	0
86	OHX	1	4153	7/7	0.95	0.15	139,139,139,139	0
86	OHX	2	2122	7/7	0.95	0.11	156,156,156,156	0
85	MG	5	3623	1/1	0.95	0.15	66,66,66,66	0
85	MG	5	3476	1/1	0.95	0.14	32,32,32,32	0
85	MG	1	3671	1/1	0.95	0.30	50,50,50,50	0
85	MG	1	3737	1/1	0.95	0.15	52,52,52,52	0
85	MG	5	3802	1/1	0.95	0.07	47,47,47,47	0
85	MG	5	3627	1/1	0.95	0.23	64,64,64,64	0
86	OHX	5	4104	7/7	0.95	0.12	140,140,140,140	0
85	MG	1	3623	1/1	0.95	0.23	56,56,56,56	0
85	MG	5	3630	1/1	0.95	0.10	41,41,41,41	0
86	OHX	5	4107	7/7	0.95	0.14	130,130,130,130	0
85	MG	1	3427	1/1	0.95	0.17	43,43,43,43	0
85	MG	2	2013	1/1	0.95	0.15	58,58,58,58	0
85	MG	1	3806	1/1	0.95	0.10	56,56,56,56	0
86	OHX	5	4112	7/7	0.95	0.14	135,135,135,135	0
86	OHX	5	4113	7/7	0.95	0.18	117,117,117,117	0
85	MG	1	3627	1/1	0.95	0.09	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	2025	1/1	0.95	0.11	88,88,88,88	0
85	MG	1	3403	1/1	0.95	0.26	37,37,37,37	0
86	OHX	5	4117	7/7	0.95	0.16	110,110,110,110	0
85	MG	4	201	1/1	0.95	0.30	43,43,43,43	0
85	MG	1	3585	1/1	0.95	0.35	51,51,51,51	0
85	MG	4	203	1/1	0.95	0.30	45,45,45,45	0
86	OHX	2	2141	7/7	0.95	0.10	169,169,169,169	0
86	OHX	5	4122	7/7	0.95	0.12	150,150,150,150	0
85	MG	4	204	1/1	0.95	0.25	37,37,37,37	0
85	MG	1	3465	1/1	0.95	0.27	57,57,57,57	0
85	MG	1	3526	1/1	0.95	0.24	26,26,26,26	0
86	OHX	5	4127	7/7	0.95	0.12	134,134,134,134	0
85	MG	5	3645	1/1	0.95	0.14	40,40,40,40	0
85	MG	4	207	1/1	0.95	0.23	41,41,41,41	0
86	OHX	5	4131	7/7	0.95	0.13	121,121,121,121	0
85	MG	1	3404	1/1	0.95	0.35	54,54,54,54	0
85	MG	1	3816	1/1	0.95	0.09	38,38,38,38	0
85	MG	5	3833	1/1	0.95	0.17	52,52,52,52	0
85	MG	6	1937	1/1	0.95	0.31	41,41,41,41	0
85	MG	6	1938	1/1	0.95	0.16	45,45,45,45	0
85	MG	1	3503	1/1	0.95	0.27	30,30,30,30	0
85	MG	6	2040	1/1	0.95	0.28	53,53,53,53	0
85	MG	5	3840	1/1	0.95	0.19	47,47,47,47	0
85	MG	1	3504	1/1	0.95	0.29	36,36,36,36	0
85	MG	6	2043	1/1	0.95	0.26	50,50,50,50	0
85	MG	2	1998	1/1	0.95	0.16	109,109,109,109	0
86	OHX	5	4143	7/7	0.95	0.13	140,140,140,140	0
86	OHX	1	4192	7/7	0.95	0.10	178,178,178,178	0
85	MG	1	3820	1/1	0.95	0.09	53,53,53,53	0
86	OHX	5	4146	7/7	0.95	0.15	126,126,126,126	0
85	MG	1	3821	1/1	0.95	0.09	40,40,40,40	0
85	MG	6	1944	1/1	0.95	0.34	59,59,59,59	0
85	MG	5	3510	1/1	0.95	0.25	26,26,26,26	0
85	MG	1	3532	1/1	0.95	0.26	37,37,37,37	0
85	MG	1	3758	1/1	0.95	0.19	61,61,61,61	0
85	MG	5	3854	1/1	0.95	0.14	66,66,66,66	0
85	MG	1	3594	1/1	0.95	0.27	24,24,24,24	0
85	MG	1	3596	1/1	0.95	0.31	23,23,23,23	0
86	OHX	5	4155	7/7	0.95	0.14	128,128,128,128	0
85	MG	5	3667	1/1	0.95	0.14	51,51,51,51	0
85	MG	4	221	1/1	0.95	0.14	67,67,67,67	0
85	MG	L3	401	1/1	0.95	0.18	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3673	1/1	0.95	0.29	32,32,32,32	0
85	MG	5	3861	1/1	0.95	0.33	60,60,60,60	0
85	MG	5	3863	1/1	0.95	0.09	42,42,42,42	0
85	MG	1	3828	1/1	0.95	0.06	37,37,37,37	0
85	MG	d6	102	1/1	0.95	0.13	53,53,53,53	0
85	MG	1	3558	1/1	0.95	0.26	27,27,27,27	0
85	MG	L4	402	1/1	0.95	0.08	36,36,36,36	0
85	MG	5	3871	1/1	0.95	0.12	48,48,48,48	0
85	MG	1	3449	1/1	0.95	0.11	43,43,43,43	0
86	OHX	3	216	7/7	0.95	0.14	117,117,117,117	0
86	OHX	3	220	7/7	0.95	0.12	138,138,138,138	0
85	MG	1	3508	1/1	0.95	0.25	20,20,20,20	0
85	MG	1	3644	1/1	0.95	0.13	70,70,70,70	0
85	MG	1	3768	1/1	0.95	0.10	43,43,43,43	0
85	MG	5	3528	1/1	0.95	0.20	33,33,33,33	0
86	OHX	1	3925	7/7	0.95	0.15	104,104,104,104	0
86	OHX	1	3949	7/7	0.95	0.13	115,115,115,115	0
85	MG	M0	301	1/1	0.95	0.17	48,48,48,48	0
86	OHX	1	3960	7/7	0.95	0.14	103,103,103,103	0
85	MG	1	3834	1/1	0.95	0.26	43,43,43,43	0
86	OHX	1	3974	7/7	0.95	0.20	99,99,99,99	0
86	OHX	1	3977	7/7	0.95	0.13	117,117,117,117	0
85	MG	5	3410	1/1	0.95	0.24	54,54,54,54	0
86	OHX	1	3982	7/7	0.95	0.15	113,113,113,113	0
86	OHX	L3	404	7/7	0.95	0.12	118,118,118,118	0
85	MG	M3	201	1/1	0.95	0.06	48,48,48,48	0
85	MG	5	3535	1/1	0.95	0.28	33,33,33,33	0
86	OHX	1	4001	7/7	0.95	0.14	115,115,115,115	0
86	OHX	1	4004	7/7	0.95	0.15	111,111,111,111	0
85	MG	1	3835	1/1	0.95	0.26	52,52,52,52	0
86	OHX	1	4007	7/7	0.95	0.12	140,140,140,140	0
86	OHX	1	4008	7/7	0.95	0.13	134,134,134,134	0
86	OHX	6	2063	7/7	0.95	0.14	101,101,101,101	0
86	OHX	6	2076	7/7	0.95	0.15	115,115,115,115	0
86	OHX	6	2084	7/7	0.95	0.13	131,131,131,131	0
85	MG	5	3693	1/1	0.95	0.07	44,44,44,44	0
86	OHX	6	2099	7/7	0.95	0.11	164,164,164,164	0
86	OHX	6	2102	7/7	0.95	0.15	126,126,126,126	0
85	MG	1	3836	1/1	0.95	0.26	34,34,34,34	0
86	OHX	5	4201	7/7	0.95	0.12	130,130,130,130	0
86	OHX	6	2105	7/7	0.95	0.14	121,121,121,121	0
85	MG	5	3695	1/1	0.95	0.08	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3704	1/1	0.95	0.18	63,63,63,63	0
86	OHX	6	2111	7/7	0.95	0.11	128,128,128,128	0
85	MG	5	3698	1/1	0.95	0.13	51,51,51,51	0
86	OHX	1	4023	7/7	0.95	0.11	138,138,138,138	0
85	MG	5	3699	1/1	0.95	0.19	50,50,50,50	0
86	OHX	6	2121	7/7	0.95	0.11	147,147,147,147	0
85	MG	M6	201	1/1	0.95	0.08	47,47,47,47	0
85	MG	5	3419	1/1	0.95	0.10	39,39,39,39	0
85	MG	1	3509	1/1	0.95	0.33	44,44,44,44	0
86	OHX	1	4035	7/7	0.95	0.12	149,149,149,149	0
85	MG	M7	201	1/1	0.95	0.22	36,36,36,36	0
85	MG	5	3422	1/1	0.95	0.15	43,43,43,43	0
85	MG	2	2179	1/1	0.95	0.09	69,69,69,69	0
86	OHX	5	4217	7/7	0.95	0.13	109,109,109,109	0
86	OHX	1	4045	7/7	0.95	0.13	119,119,119,119	0
85	MG	5	4254	1/1	0.95	0.28	29,29,29,29	0
86	OHX	1	4049	7/7	0.95	0.13	126,126,126,126	0
85	MG	5	3709	1/1	0.95	0.27	45,45,45,45	0
86	OHX	6	2139	7/7	0.95	0.14	140,140,140,140	0
86	OHX	1	4055	7/7	0.95	0.21	106,106,106,106	0
85	MG	1	3424	1/1	0.95	0.27	45,45,45,45	0
86	OHX	1	4057	7/7	0.95	0.09	189,189,189,189	0
86	OHX	1	4058	7/7	0.95	0.12	135,135,135,135	0
86	OHX	6	2146	7/7	0.95	0.16	119,119,119,119	0
86	OHX	1	4059	7/7	0.95	0.09	156,156,156,156	0
85	MG	1	3774	1/1	0.95	0.14	66,66,66,66	0
85	MG	5	3549	1/1	0.95	0.38	44,44,44,44	0
85	MG	5	3428	1/1	0.95	0.22	29,29,29,29	0
85	MG	7	205	1/1	0.95	0.26	30,30,30,30	0
86	OHX	5	4233	7/7	0.95	0.20	109,109,109,109	0
85	MG	2	1966	1/1	0.95	0.25	52,52,52,52	0
85	MG	1	3567	1/1	0.95	0.24	35,35,35,35	0
85	MG	1	3609	1/1	0.95	0.12	45,45,45,45	0
85	MG	1	3848	1/1	0.95	0.20	52,52,52,52	0
86	OHX	6	2158	7/7	0.95	0.13	119,119,119,119	0
85	MG	6	1981	1/1	0.95	0.16	50,50,50,50	0
86	OHX	1	4072	7/7	0.95	0.11	131,131,131,131	0
85	MG	5	3558	1/1	0.95	0.13	53,53,53,53	0
85	MG	5	3436	1/1	0.95	0.32	48,48,48,48	0
85	MG	1	3453	1/1	0.95	0.29	45,45,45,45	0
85	MG	5	3561	1/1	0.95	0.27	26,26,26,26	0
86	OHX	1	4077	7/7	0.95	0.14	130,130,130,130	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	N3	202	1/1	0.95	0.13	46,46,46,46	0
85	MG	5	3566	1/1	0.95	0.31	37,37,37,37	0
85	MG	1	3455	1/1	0.95	0.26	55,55,55,55	0
85	MG	8	206	1/1	0.95	0.30	51,51,51,51	0
85	MG	1	3853	1/1	0.95	0.05	28,28,28,28	0
85	MG	5	3443	1/1	0.95	0.17	37,37,37,37	0
85	MG	1	3854	1/1	0.95	0.32	93,93,93,93	0
85	MG	5	3571	1/1	0.95	0.30	21,21,21,21	0
85	MG	6	1989	1/1	0.95	0.18	68,68,68,68	0
85	MG	1	3571	1/1	0.95	0.26	32,32,32,32	0
85	MG	8	214	1/1	0.95	0.07	50,50,50,50	0
86	OHX	1	4092	7/7	0.95	0.10	145,145,145,145	0
85	MG	8	216	1/1	0.95	0.25	33,33,33,33	0
85	MG	N8	203	1/1	0.95	0.07	50,50,50,50	0
85	MG	1	3781	1/1	0.95	0.09	42,42,42,42	0
85	MG	1	3656	1/1	0.95	0.17	45,45,45,45	0
86	OHX	1	4097	7/7	0.95	0.15	120,120,120,120	0
85	MG	5	3580	1/1	0.95	0.24	38,38,38,38	0
85	MG	5	3749	1/1	0.95	0.07	52,52,52,52	0
85	MG	5	3581	1/1	0.95	0.29	36,36,36,36	0
85	MG	1	3613	1/1	0.95	0.23	35,35,35,35	0
85	MG	1	3658	1/1	0.95	0.08	47,47,47,47	0
85	MG	1	3860	1/1	0.95	0.16	43,43,43,43	0
86	OHX	m0	301	7/7	0.95	0.11	126,126,126,126	0
86	OHX	1	4105	7/7	0.95	0.13	126,126,126,126	0
85	MG	1	3614	1/1	0.95	0.23	43,43,43,43	0
85	MG	1	3862	1/1	0.95	0.13	55,55,55,55	0
85	MG	5	3591	1/1	0.95	0.29	44,44,44,44	0
85	MG	1	4214	1/1	0.95	0.23	30,30,30,30	0
85	MG	1	3438	1/1	0.95	0.22	43,43,43,43	0
85	MG	1	3662	1/1	0.95	0.11	53,53,53,53	0
85	MG	n0	201	1/1	0.95	0.13	42,42,42,42	0
85	MG	n3	201	1/1	0.95	0.23	26,26,26,26	0
85	MG	n3	202	1/1	0.95	0.06	45,45,45,45	0
85	MG	n6	201	1/1	0.95	0.26	49,49,49,49	0
86	OHX	1	4116	7/7	0.95	0.14	132,132,132,132	0
85	MG	5	3766	1/1	0.95	0.09	42,42,42,42	0
85	MG	5	3752	1/1	0.96	0.15	41,41,41,41	0
86	OHX	2	2044	7/7	0.96	0.13	118,118,118,118	0
86	OHX	1	4024	7/7	0.96	0.09	132,132,132,132	0
86	OHX	2	2054	7/7	0.96	0.10	134,134,134,134	0
86	OHX	5	4072	7/7	0.96	0.13	122,122,122,122	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4026	7/7	0.96	0.11	137,137,137,137	0
86	OHX	2	2055	7/7	0.96	0.10	135,135,135,135	0
86	OHX	1	4028	7/7	0.96	0.11	116,116,116,116	0
86	OHX	2	2056	7/7	0.96	0.11	124,124,124,124	0
86	OHX	5	4077	7/7	0.96	0.10	163,163,163,163	0
86	OHX	1	4031	7/7	0.96	0.13	115,115,115,115	0
86	OHX	2	2057	7/7	0.96	0.09	135,135,135,135	0
86	OHX	2	2058	7/7	0.96	0.10	144,144,144,144	0
86	OHX	5	4083	7/7	0.96	0.10	117,117,117,117	0
86	OHX	1	4036	7/7	0.96	0.12	122,122,122,122	0
86	OHX	5	4085	7/7	0.96	0.12	121,121,121,121	0
86	OHX	1	4037	7/7	0.96	0.12	128,128,128,128	0
86	OHX	1	4038	7/7	0.96	0.13	120,120,120,120	0
86	OHX	1	4040	7/7	0.96	0.12	123,123,123,123	0
86	OHX	1	4041	7/7	0.96	0.14	112,112,112,112	0
86	OHX	5	4090	7/7	0.96	0.23	109,109,109,109	0
86	OHX	5	4091	7/7	0.96	0.14	117,117,117,117	0
85	MG	5	3753	1/1	0.96	0.17	52,52,52,52	0
86	OHX	5	4094	7/7	0.96	0.11	138,138,138,138	0
86	OHX	2	2068	7/7	0.96	0.09	146,146,146,146	0
86	OHX	2	2069	7/7	0.96	0.10	150,150,150,150	0
86	OHX	3	219	7/7	0.96	0.10	130,130,130,130	0
85	MG	1	3761	1/1	0.96	0.10	51,51,51,51	0
86	OHX	1	4047	7/7	0.96	0.10	144,144,144,144	0
85	MG	5	3666	1/1	0.96	0.21	46,46,46,46	0
85	MG	5	3598	1/1	0.96	0.45	28,28,28,28	0
86	OHX	1	4050	7/7	0.96	0.10	147,147,147,147	0
86	OHX	1	4052	7/7	0.96	0.11	142,142,142,142	0
85	MG	1	3428	1/1	0.96	0.14	57,57,57,57	0
85	MG	2	1972	1/1	0.96	0.26	72,72,72,72	0
85	MG	5	3670	1/1	0.96	0.17	49,49,49,49	0
86	OHX	2	2083	7/7	0.96	0.08	157,157,157,157	0
86	OHX	2	2085	7/7	0.96	0.13	130,130,130,130	0
86	OHX	2	2087	7/7	0.96	0.12	122,122,122,122	0
85	MG	5	3671	1/1	0.96	0.07	34,34,34,34	0
86	OHX	2	2090	7/7	0.96	0.13	117,117,117,117	0
86	OHX	L3	403	7/7	0.96	0.12	126,126,126,126	0
86	OHX	2	2091	7/7	0.96	0.11	124,124,124,124	0
85	MG	5	3672	1/1	0.96	0.21	48,48,48,48	0
85	MG	5	3601	1/1	0.96	0.17	42,42,42,42	0
86	OHX	1	4067	7/7	0.96	0.15	126,126,126,126	0
86	OHX	2	2097	7/7	0.96	0.12	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	5	3531	1/1	0.96	0.20	33,33,33,33	0
86	OHX	2	2099	7/7	0.96	0.10	156,156,156,156	0
85	MG	5	3873	1/1	0.96	0.16	38,38,38,38	0
85	MG	5	3675	1/1	0.96	0.27	39,39,39,39	0
86	OHX	6	2072	7/7	0.96	0.11	135,135,135,135	0
86	OHX	2	2103	7/7	0.96	0.10	147,147,147,147	0
85	MG	2	2022	1/1	0.96	0.23	102,102,102,102	0
86	OHX	5	4126	7/7	0.96	0.10	146,146,146,146	0
86	OHX	6	2085	7/7	0.96	0.11	109,109,109,109	0
85	MG	L2	301	1/1	0.96	0.11	38,38,38,38	0
85	MG	5	3877	1/1	0.96	0.38	46,46,46,46	0
85	MG	1	3732	1/1	0.96	0.19	36,36,36,36	0
86	OHX	2	2108	7/7	0.96	0.11	123,123,123,123	0
85	MG	1	3634	1/1	0.96	0.10	48,48,48,48	0
86	OHX	2	2110	7/7	0.96	0.09	161,161,161,161	0
85	MG	5	3774	1/1	0.96	0.09	39,39,39,39	0
86	OHX	6	2110	7/7	0.96	0.11	134,134,134,134	0
85	MG	1	3481	1/1	0.96	0.34	41,41,41,41	0
86	OHX	6	2113	7/7	0.96	0.11	130,130,130,130	0
86	OHX	6	2114	7/7	0.96	0.10	129,129,129,129	0
86	OHX	6	2115	7/7	0.96	0.10	130,130,130,130	0
85	MG	5	3424	1/1	0.96	0.17	41,41,41,41	0
86	OHX	6	2117	7/7	0.96	0.13	115,115,115,115	0
85	MG	1	3462	1/1	0.96	0.20	28,28,28,28	0
85	MG	1	3677	1/1	0.96	0.21	46,46,46,46	0
85	MG	1	3506	1/1	0.96	0.34	32,32,32,32	0
86	OHX	6	2122	7/7	0.96	0.11	138,138,138,138	0
86	OHX	6	2123	7/7	0.96	0.13	111,111,111,111	0
85	MG	5	3887	1/1	0.96	0.28	58,58,58,58	0
85	MG	5	3429	1/1	0.96	0.11	33,33,33,33	0
85	MG	1	3843	1/1	0.96	0.24	37,37,37,37	0
85	MG	5	3544	1/1	0.96	0.14	37,37,37,37	0
86	OHX	6	2128	7/7	0.96	0.12	157,157,157,157	0
86	OHX	6	2129	7/7	0.96	0.10	141,141,141,141	0
85	MG	1	3431	1/1	0.96	0.21	43,43,43,43	0
85	MG	5	3892	1/1	0.96	0.04	31,31,31,31	0
85	MG	1	3534	1/1	0.96	0.24	29,29,29,29	0
85	MG	6	1996	1/1	0.96	0.08	53,53,53,53	0
85	MG	1	3741	1/1	0.96	0.12	44,44,44,44	0
85	MG	5	3788	1/1	0.96	0.11	45,45,45,45	0
86	OHX	6	2137	7/7	0.96	0.14	129,129,129,129	0
85	MG	5	3435	1/1	0.96	0.18	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	6	1953	1/1	0.96	0.49	62,62,62,62	0
85	MG	5	3899	1/1	0.96	0.22	47,47,47,47	0
85	MG	5	4252	1/1	0.96	0.12	40,40,40,40	0
86	OHX	1	4104	7/7	0.96	0.09	147,147,147,147	0
86	OHX	6	2144	7/7	0.96	0.12	133,133,133,133	0
85	MG	6	2042	1/1	0.96	0.14	52,52,52,52	0
85	MG	3	210	1/1	0.96	0.23	60,60,60,60	0
85	MG	5	3628	1/1	0.96	0.19	58,58,58,58	0
85	MG	5	3553	1/1	0.96	0.37	47,47,47,47	0
85	MG	1	3742	1/1	0.96	0.18	51,51,51,51	0
85	MG	7	202	1/1	0.96	0.22	27,27,27,27	0
85	MG	6	1957	1/1	0.96	0.32	49,49,49,49	0
85	MG	6	2205	1/1	0.96	0.25	54,54,54,54	0
86	OHX	6	2154	7/7	0.96	0.12	121,121,121,121	0
85	MG	5	3706	1/1	0.96	0.05	37,37,37,37	0
85	MG	7	206	1/1	0.96	0.07	43,43,43,43	0
85	MG	5	3799	1/1	0.96	0.11	42,42,42,42	0
85	MG	5	3800	1/1	0.96	0.15	40,40,40,40	0
86	OHX	5	4181	7/7	0.96	0.08	163,163,163,163	0
85	MG	1	3712	1/1	0.96	0.07	36,36,36,36	0
85	MG	5	3634	1/1	0.96	0.07	36,36,36,36	0
85	MG	1	3464	1/1	0.96	0.11	37,37,37,37	0
85	MG	5	3711	1/1	0.96	0.20	47,47,47,47	0
85	MG	M5	302	1/1	0.96	0.19	54,54,54,54	0
85	MG	1	3446	1/1	0.96	0.10	45,45,45,45	0
85	MG	5	3714	1/1	0.96	0.10	61,61,61,61	0
85	MG	1	3852	1/1	0.96	0.22	60,60,60,60	0
85	MG	6	2007	1/1	0.96	0.23	55,55,55,55	0
85	MG	8	204	1/1	0.96	0.29	40,40,40,40	0
85	MG	5	3640	1/1	0.96	0.23	49,49,49,49	0
85	MG	5	3719	1/1	0.96	0.09	52,52,52,52	0
85	MG	1	3566	1/1	0.96	0.26	30,30,30,30	0
85	MG	1	3537	1/1	0.96	0.36	31,31,31,31	0
85	MG	d3	201	1/1	0.96	0.24	48,48,48,48	0
85	MG	8	210	1/1	0.96	0.09	54,54,54,54	0
85	MG	1	3538	1/1	0.96	0.12	40,40,40,40	0
85	MG	5	3509	1/1	0.96	0.29	27,27,27,27	0
85	MG	5	3818	1/1	0.96	0.17	45,45,45,45	0
85	MG	5	3820	1/1	0.96	0.08	75,75,75,75	0
85	MG	8	215	1/1	0.96	0.25	51,51,51,51	0
85	MG	5	3821	1/1	0.96	0.12	60,60,60,60	0
85	MG	l2	301	1/1	0.96	0.23	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3456	1/1	0.96	0.12	61,61,61,61	0
85	MG	2	1984	1/1	0.96	0.13	60,60,60,60	0
85	MG	5	3825	1/1	0.96	0.20	63,63,63,63	0
85	MG	1	3693	1/1	0.96	0.14	39,39,39,39	0
85	MG	5	3576	1/1	0.96	0.33	42,42,42,42	0
85	MG	1	3822	1/1	0.96	0.13	58,58,58,58	0
85	MG	5	3832	1/1	0.96	0.17	73,73,73,73	0
85	MG	1	3694	1/1	0.96	0.19	52,52,52,52	0
85	MG	1	3666	1/1	0.96	0.09	56,56,56,56	0
85	MG	m5	301	1/1	0.96	0.11	43,43,43,43	0
85	MG	5	3835	1/1	0.96	0.08	42,42,42,42	0
85	MG	5	3733	1/1	0.96	0.04	43,43,43,43	0
85	MG	1	3755	1/1	0.96	0.13	33,33,33,33	0
86	OHX	SR	401	7/7	0.96	0.09	175,175,175,175	0
86	OHX	1	4155	7/7	0.96	0.10	120,120,120,120	0
86	OHX	1	3907	7/7	0.96	0.20	90,90,90,90	0
86	OHX	1	3917	7/7	0.96	0.14	118,118,118,118	0
85	MG	1	3724	1/1	0.96	0.11	65,65,65,65	0
86	OHX	1	3937	7/7	0.96	0.13	106,106,106,106	0
86	OHX	1	3943	7/7	0.96	0.12	95,95,95,95	0
85	MG	5	3737	1/1	0.96	0.17	36,36,36,36	0
85	MG	m7	202	1/1	0.96	0.10	32,32,32,32	0
86	OHX	1	3959	7/7	0.96	0.10	123,123,123,123	0
85	MG	m7	203	1/1	0.96	0.16	51,51,51,51	0
85	MG	1	3423	1/1	0.96	0.10	35,35,35,35	0
85	MG	5	3842	1/1	0.96	0.09	68,68,68,68	0
86	OHX	1	3976	7/7	0.96	0.12	116,116,116,116	0
85	MG	5	3739	1/1	0.96	0.21	29,29,29,29	0
85	MG	5	3740	1/1	0.96	0.06	57,57,57,57	0
85	MG	5	3741	1/1	0.96	0.14	40,40,40,40	0
86	OHX	1	3987	7/7	0.96	0.12	122,122,122,122	0
86	OHX	5	3967	7/7	0.96	0.14	106,106,106,106	0
86	OHX	5	3975	7/7	0.96	0.12	112,112,112,112	0
86	OHX	5	3978	7/7	0.96	0.12	100,100,100,100	0
86	OHX	5	3984	7/7	0.96	0.20	103,103,103,103	0
86	OHX	5	3991	7/7	0.96	0.11	115,115,115,115	0
86	OHX	1	3988	7/7	0.96	0.12	112,112,112,112	0
86	OHX	5	3995	7/7	0.96	0.10	132,132,132,132	0
86	OHX	1	3993	7/7	0.96	0.20	103,103,103,103	0
85	MG	1	3572	1/1	0.96	0.33	27,27,27,27	0
86	OHX	5	4003	7/7	0.96	0.11	122,122,122,122	0
86	OHX	5	4006	7/7	0.96	0.11	121,121,121,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	5	4012	7/7	0.96	0.12	119,119,119,119	0
86	OHX	1	3996	7/7	0.96	0.13	121,121,121,121	0
85	MG	n8	202	1/1	0.96	0.07	33,33,33,33	0
86	OHX	1	3999	7/7	0.96	0.19	106,106,106,106	0
86	OHX	1	4000	7/7	0.96	0.10	133,133,133,133	0
85	MG	5	3743	1/1	0.96	0.06	35,35,35,35	0
86	OHX	5	4029	7/7	0.96	0.20	101,101,101,101	0
86	OHX	5	4030	7/7	0.96	0.12	124,124,124,124	0
86	OHX	5	4031	7/7	0.96	0.10	143,143,143,143	0
86	OHX	8	221	7/7	0.96	0.12	119,119,119,119	0
86	OHX	8	223	7/7	0.96	0.10	128,128,128,128	0
86	OHX	8	225	7/7	0.96	0.10	129,129,129,129	0
86	OHX	8	227	7/7	0.96	0.12	134,134,134,134	0
86	OHX	1	4002	7/7	0.96	0.11	128,128,128,128	0
86	OHX	5	4033	7/7	0.96	0.14	114,114,114,114	0
86	OHX	1	4003	7/7	0.96	0.11	124,124,124,124	0
85	MG	1	3792	1/1	0.96	0.21	67,67,67,67	0
86	OHX	5	4038	7/7	0.96	0.09	135,135,135,135	0
85	MG	4	215	1/1	0.96	0.15	70,70,70,70	0
85	MG	5	3850	1/1	0.96	0.22	47,47,47,47	0
85	MG	5	3522	1/1	0.96	0.38	41,41,41,41	0
85	MG	q0	202	1/1	0.96	0.08	52,52,52,52	0
86	OHX	1	4010	7/7	0.96	0.09	140,140,140,140	0
86	OHX	5	4048	7/7	0.96	0.11	120,120,120,120	0
86	OHX	5	4049	7/7	0.96	0.13	116,116,116,116	0
86	OHX	1	4011	7/7	0.96	0.11	126,126,126,126	0
86	OHX	1	4012	7/7	0.96	0.11	125,125,125,125	0
86	OHX	5	4053	7/7	0.96	0.20	108,108,108,108	0
86	OHX	1	4013	7/7	0.96	0.12	123,123,123,123	0
85	MG	5	3413	1/1	0.96	0.20	39,39,39,39	0
86	OHX	5	4058	7/7	0.96	0.10	143,143,143,143	0
86	OHX	5	4059	7/7	0.96	0.11	119,119,119,119	0
86	OHX	5	4060	7/7	0.96	0.10	154,154,154,154	0
86	OHX	1	4015	7/7	0.96	0.10	128,128,128,128	0
85	MG	1	4217	1/1	0.96	0.11	32,32,32,32	0
85	MG	5	3526	1/1	0.96	0.29	32,32,32,32	0
86	OHX	5	4064	7/7	0.96	0.08	160,160,160,160	0
86	OHX	5	4065	7/7	0.96	0.12	121,121,121,121	0
86	OHX	5	4067	7/7	0.96	0.10	135,135,135,135	0
85	MG	1	3604	1/1	0.97	0.16	42,42,42,42	0
85	MG	5	3506	1/1	0.97	0.38	36,36,36,36	0
86	OHX	2	2063	7/7	0.97	0.10	135,135,135,135	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	2008	1/1	0.97	0.08	49,49,49,49	0
86	OHX	2	2066	7/7	0.97	0.13	114,114,114,114	0
86	OHX	2	2067	7/7	0.97	0.10	140,140,140,140	0
86	OHX	6	2108	7/7	0.97	0.09	128,128,128,128	0
86	OHX	6	2109	7/7	0.97	0.11	116,116,116,116	0
86	OHX	C8	201	7/7	0.97	0.11	117,117,117,117	0
85	MG	1	3680	1/1	0.97	0.11	58,58,58,58	0
86	OHX	6	2112	7/7	0.97	0.11	110,110,110,110	0
85	MG	1	3466	1/1	0.97	0.11	48,48,48,48	0
86	OHX	2	2070	7/7	0.97	0.13	117,117,117,117	0
86	OHX	1	3893	7/7	0.97	0.14	81,81,81,81	0
86	OHX	2	2074	7/7	0.97	0.08	148,148,148,148	0
86	OHX	2	2075	7/7	0.97	0.10	124,124,124,124	0
85	MG	1	3682	1/1	0.97	0.19	40,40,40,40	0
86	OHX	1	3929	7/7	0.97	0.10	106,106,106,106	0
86	OHX	1	3932	7/7	0.97	0.12	108,108,108,108	0
86	OHX	1	3934	7/7	0.97	0.11	96,96,96,96	0
86	OHX	1	3936	7/7	0.97	0.10	116,116,116,116	0
85	MG	1	3582	1/1	0.97	0.24	32,32,32,32	0
86	OHX	1	3942	7/7	0.97	0.11	106,106,106,106	0
86	OHX	2	2078	7/7	0.97	0.10	119,119,119,119	0
86	OHX	1	3944	7/7	0.97	0.09	112,112,112,112	0
86	OHX	1	3947	7/7	0.97	0.12	118,118,118,118	0
85	MG	5	3716	1/1	0.97	0.12	51,51,51,51	0
86	OHX	6	2130	7/7	0.97	0.10	128,128,128,128	0
85	MG	1	3684	1/1	0.97	0.21	49,49,49,49	0
86	OHX	1	3952	7/7	0.97	0.17	104,104,104,104	0
86	OHX	1	3954	7/7	0.97	0.17	99,99,99,99	0
85	MG	1	3809	1/1	0.97	0.08	49,49,49,49	0
85	MG	5	3402	1/1	0.97	0.22	30,30,30,30	0
85	MG	1	3710	1/1	0.97	0.07	53,53,53,53	0
86	OHX	1	3964	7/7	0.97	0.12	106,106,106,106	0
86	OHX	1	3965	7/7	0.97	0.10	131,131,131,131	0
86	OHX	1	3968	7/7	0.97	0.11	118,118,118,118	0
86	OHX	1	3970	7/7	0.97	0.12	110,110,110,110	0
86	OHX	1	3971	7/7	0.97	0.09	132,132,132,132	0
86	OHX	6	2142	7/7	0.97	0.11	132,132,132,132	0
86	OHX	1	3973	7/7	0.97	0.11	107,107,107,107	0
86	OHX	2	2084	7/7	0.97	0.09	138,138,138,138	0
86	OHX	5	4130	7/7	0.97	0.08	145,145,145,145	0
86	OHX	1	3975	7/7	0.97	0.22	100,100,100,100	0
85	MG	1	3685	1/1	0.97	0.06	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2086	7/7	0.97	0.09	146,146,146,146	0
85	MG	1	3812	1/1	0.97	0.23	49,49,49,49	0
86	OHX	2	2088	7/7	0.97	0.10	130,130,130,130	0
86	OHX	1	3983	7/7	0.97	0.10	125,125,125,125	0
86	OHX	1	3984	7/7	0.97	0.10	119,119,119,119	0
86	OHX	1	3985	7/7	0.97	0.11	124,124,124,124	0
86	OHX	1	3986	7/7	0.97	0.11	112,112,112,112	0
85	MG	5	3649	1/1	0.97	0.18	43,43,43,43	0
85	MG	5	3650	1/1	0.97	0.13	43,43,43,43	0
86	OHX	1	3989	7/7	0.97	0.10	135,135,135,135	0
86	OHX	1	3990	7/7	0.97	0.09	131,131,131,131	0
86	OHX	1	3992	7/7	0.97	0.09	137,137,137,137	0
85	MG	1	3740	1/1	0.97	0.12	40,40,40,40	0
85	MG	1	3461	1/1	0.97	0.20	25,25,25,25	0
86	OHX	2	2093	7/7	0.97	0.17	123,123,123,123	0
85	MG	5	3727	1/1	0.97	0.08	36,36,36,36	0
86	OHX	2	2096	7/7	0.97	0.08	156,156,156,156	0
85	MG	5	3409	1/1	0.97	0.34	44,44,44,44	0
85	MG	5	3812	1/1	0.97	0.07	90,90,90,90	0
85	MG	5	3584	1/1	0.97	0.28	29,29,29,29	0
86	OHX	2	2100	7/7	0.97	0.11	128,128,128,128	0
85	MG	5	3585	1/1	0.97	0.37	31,31,31,31	0
86	OHX	1	4005	7/7	0.97	0.10	112,112,112,112	0
85	MG	5	3587	1/1	0.97	0.19	26,26,26,26	0
85	MG	1	3439	1/1	0.97	0.28	34,34,34,34	0
85	MG	1	3743	1/1	0.97	0.14	32,32,32,32	0
85	MG	5	3523	1/1	0.97	0.30	38,38,38,38	0
85	MG	5	3819	1/1	0.97	0.05	36,36,36,36	0
85	MG	5	3412	1/1	0.97	0.16	33,33,33,33	0
85	MG	5	3736	1/1	0.97	0.12	53,53,53,53	0
85	MG	1	3688	1/1	0.97	0.12	39,39,39,39	0
85	MG	1	3595	1/1	0.97	0.34	25,25,25,25	0
86	OHX	2	2111	7/7	0.97	0.08	147,147,147,147	0
86	OHX	2	2112	7/7	0.97	0.12	128,128,128,128	0
86	OHX	1	4017	7/7	0.97	0.10	120,120,120,120	0
85	MG	1	3746	1/1	0.97	0.07	49,49,49,49	0
86	OHX	1	4171	7/7	0.97	0.12	112,112,112,112	0
86	OHX	1	4019	7/7	0.97	0.10	121,121,121,121	0
86	OHX	1	4020	7/7	0.97	0.09	143,143,143,143	0
85	MG	5	3828	1/1	0.97	0.08	43,43,43,43	0
86	OHX	1	4022	7/7	0.97	0.10	117,117,117,117	0
85	MG	1	3433	1/1	0.97	0.22	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3653	1/1	0.97	0.34	47,47,47,47	0
85	MG	2	1956	1/1	0.97	0.37	65,65,65,65	0
85	MG	1	3720	1/1	0.97	0.10	61,61,61,61	0
85	MG	1	3587	1/1	0.97	0.22	25,25,25,25	0
85	MG	6	1985	1/1	0.97	0.07	48,48,48,48	0
85	MG	1	3626	1/1	0.97	0.17	34,34,34,34	0
85	MG	1	3491	1/1	0.97	0.17	34,34,34,34	0
86	OHX	1	4033	7/7	0.97	0.23	104,104,104,104	0
85	MG	5	3748	1/1	0.97	0.19	48,48,48,48	0
85	MG	4	218	1/1	0.97	0.12	40,40,40,40	0
85	MG	5	3750	1/1	0.97	0.20	43,43,43,43	0
86	OHX	6	2201	7/7	0.97	0.07	193,193,193,193	0
85	MG	1	3674	1/1	0.97	0.08	76,76,76,76	0
85	MG	5	3539	1/1	0.97	0.21	23,23,23,23	0
86	OHX	1	4039	7/7	0.97	0.09	137,137,137,137	0
85	MG	5	3427	1/1	0.97	0.22	48,48,48,48	0
85	MG	1	3628	1/1	0.97	0.15	70,70,70,70	0
86	OHX	2	2131	7/7	0.97	0.12	125,125,125,125	0
85	MG	5	3677	1/1	0.97	0.05	43,43,43,43	0
85	MG	5	3610	1/1	0.97	0.17	31,31,31,31	0
85	MG	5	3611	1/1	0.97	0.15	39,39,39,39	0
85	MG	5	3758	1/1	0.97	0.10	56,56,56,56	0
85	MG	5	3612	1/1	0.97	0.23	51,51,51,51	0
85	MG	5	3613	1/1	0.97	0.04	34,34,34,34	0
86	OHX	5	3950	7/7	0.97	0.12	103,103,103,103	0
86	OHX	5	3956	7/7	0.97	0.12	102,102,102,102	0
86	OHX	5	3964	7/7	0.97	0.10	99,99,99,99	0
85	MG	1	3727	1/1	0.97	0.08	35,35,35,35	0
86	OHX	1	4051	7/7	0.97	0.08	149,149,149,149	0
86	OHX	5	3976	7/7	0.97	0.12	100,100,100,100	0
85	MG	5	3852	1/1	0.97	0.27	59,59,59,59	0
85	MG	5	3763	1/1	0.97	0.12	41,41,41,41	0
86	OHX	1	4054	7/7	0.97	0.09	154,154,154,154	0
86	OHX	5	3993	7/7	0.97	0.11	108,108,108,108	0
85	MG	1	3757	1/1	0.97	0.17	39,39,39,39	0
85	MG	5	3685	1/1	0.97	0.18	52,52,52,52	0
85	MG	6	1945	1/1	0.97	0.28	32,32,32,32	0
86	OHX	5	3997	7/7	0.97	0.21	99,99,99,99	0
85	MG	1	3699	1/1	0.97	0.27	46,46,46,46	0
86	OHX	5	4001	7/7	0.97	0.10	119,119,119,119	0
86	OHX	5	4002	7/7	0.97	0.21	80,80,80,80	0
86	OHX	2	2145	7/7	0.97	0.10	127,127,127,127	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3768	1/1	0.97	0.14	55,55,55,55	0
86	OHX	5	4011	7/7	0.97	0.11	113,113,113,113	0
85	MG	1	3794	1/1	0.97	0.10	29,29,29,29	0
86	OHX	5	4013	7/7	0.97	0.09	149,149,149,149	0
86	OHX	5	4015	7/7	0.97	0.11	111,111,111,111	0
86	OHX	5	4016	7/7	0.97	0.10	111,111,111,111	0
85	MG	5	3490	1/1	0.97	0.07	50,50,50,50	0
86	OHX	5	4018	7/7	0.97	0.10	128,128,128,128	0
86	OHX	5	4019	7/7	0.97	0.10	114,114,114,114	0
86	OHX	5	4020	7/7	0.97	0.11	125,125,125,125	0
86	OHX	1	4063	7/7	0.97	0.16	111,111,111,111	0
86	OHX	5	4022	7/7	0.97	0.09	123,123,123,123	0
86	OHX	1	4064	7/7	0.97	0.08	151,151,151,151	0
86	OHX	5	4025	7/7	0.97	0.11	113,113,113,113	0
86	OHX	3	217	7/7	0.97	0.10	113,113,113,113	0
86	OHX	3	218	7/7	0.97	0.09	123,123,123,123	0
85	MG	1	3759	1/1	0.97	0.08	37,37,37,37	0
85	MG	5	3865	1/1	0.97	0.15	38,38,38,38	0
85	MG	1	3700	1/1	0.97	0.14	50,50,50,50	0
85	MG	n0	202	1/1	0.97	0.13	41,41,41,41	0
85	MG	5	3622	1/1	0.97	0.14	37,37,37,37	0
86	OHX	5	4035	7/7	0.97	0.10	130,130,130,130	0
85	MG	1	3416	1/1	0.97	0.07	51,51,51,51	0
85	MG	5	3869	1/1	0.97	0.07	40,40,40,40	0
85	MG	L7	301	1/1	0.97	0.15	39,39,39,39	0
86	OHX	5	4039	7/7	0.97	0.23	103,103,103,103	0
86	OHX	4	227	7/7	0.97	0.10	108,108,108,108	0
86	OHX	4	230	7/7	0.97	0.13	115,115,115,115	0
85	MG	5	3438	1/1	0.97	0.22	32,32,32,32	0
85	MG	5	3696	1/1	0.97	0.17	76,76,76,76	0
86	OHX	5	4044	7/7	0.97	0.20	106,106,106,106	0
86	OHX	4	233	7/7	0.97	0.10	136,136,136,136	0
86	OHX	5	4046	7/7	0.97	0.15	110,110,110,110	0
86	OHX	7	216	7/7	0.97	0.12	97,97,97,97	0
86	OHX	7	221	7/7	0.97	0.10	112,112,112,112	0
86	OHX	5	4047	7/7	0.97	0.11	128,128,128,128	0
85	MG	1	3762	1/1	0.97	0.24	51,51,51,51	0
85	MG	1	3484	1/1	0.97	0.10	49,49,49,49	0
86	OHX	5	4050	7/7	0.97	0.08	133,133,133,133	0
85	MG	1	3839	1/1	0.97	0.21	31,31,31,31	0
86	OHX	8	219	7/7	0.97	0.09	119,119,119,119	0
86	OHX	8	220	7/7	0.97	0.11	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	1956	1/1	0.97	0.33	43,43,43,43	0
86	OHX	8	222	7/7	0.97	0.10	129,129,129,129	0
85	MG	5	3557	1/1	0.97	0.26	28,28,28,28	0
86	OHX	8	224	7/7	0.97	0.14	126,126,126,126	0
85	MG	5	3702	1/1	0.97	0.08	32,32,32,32	0
86	OHX	8	226	7/7	0.97	0.08	145,145,145,145	0
86	OHX	5	4056	7/7	0.97	0.12	111,111,111,111	0
85	MG	6	1912	1/1	0.97	0.28	52,52,52,52	0
85	MG	s8	302	1/1	0.97	0.12	45,45,45,45	0
86	OHX	2	2038	7/7	0.97	0.12	120,120,120,120	0
86	OHX	1	4084	7/7	0.97	0.07	195,195,195,195	0
86	OHX	M5	303	7/7	0.97	0.10	116,116,116,116	0
85	MG	5	3787	1/1	0.97	0.08	47,47,47,47	0
85	MG	5	3446	1/1	0.97	0.12	43,43,43,43	0
86	OHX	1	4087	7/7	0.97	0.26	94,94,94,94	0
86	OHX	2	2050	7/7	0.97	0.09	127,127,127,127	0
86	OHX	1	4089	7/7	0.97	0.07	162,162,162,162	0
86	OHX	6	2064	7/7	0.97	0.11	104,104,104,104	0
86	OHX	6	2065	7/7	0.97	0.15	112,112,112,112	0
86	OHX	2	2051	7/7	0.97	0.09	121,121,121,121	0
86	OHX	2	2053	7/7	0.97	0.09	116,116,116,116	0
86	OHX	6	2077	7/7	0.97	0.14	99,99,99,99	0
86	OHX	6	2080	7/7	0.97	0.17	107,107,107,107	0
86	OHX	m5	305	7/7	0.97	0.10	133,133,133,133	0
85	MG	1	3840	1/1	0.97	0.17	66,66,66,66	0
85	MG	5	3707	1/1	0.97	0.10	57,57,57,57	0
86	OHX	6	2087	7/7	0.97	0.09	126,126,126,126	0
86	OHX	o3	202	7/7	0.97	0.13	111,111,111,111	0
86	OHX	6	2088	7/7	0.97	0.10	133,133,133,133	0
86	OHX	6	2090	7/7	0.97	0.13	125,125,125,125	0
86	OHX	6	2093	7/7	0.97	0.09	135,135,135,135	0
85	MG	M0	302	1/1	0.97	0.18	55,55,55,55	0
86	OHX	6	2096	7/7	0.97	0.08	157,157,157,157	0
86	OHX	6	2097	7/7	0.97	0.08	126,126,126,126	0
88	ZN	e1	501	1/1	0.97	0.05	169,169,169,169	0
86	OHX	6	2098	7/7	0.97	0.08	157,157,157,157	0
86	OHX	1	3914	7/7	0.98	0.10	100,100,100,100	0
86	OHX	6	2073	7/7	0.98	0.09	131,131,131,131	0
86	OHX	6	2075	7/7	0.98	0.08	115,115,115,115	0
86	OHX	2	2045	7/7	0.98	0.10	109,109,109,109	0
86	OHX	1	3918	7/7	0.98	0.10	92,92,92,92	0
86	OHX	6	2078	7/7	0.98	0.10	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3921	7/7	0.98	0.10	94,94,94,94	0
86	OHX	6	2081	7/7	0.98	0.08	109,109,109,109	0
86	OHX	5	3927	7/7	0.98	0.13	72,72,72,72	0
86	OHX	5	3930	7/7	0.98	0.12	84,84,84,84	0
86	OHX	5	3933	7/7	0.98	0.12	94,94,94,94	0
86	OHX	5	3941	7/7	0.98	0.10	85,85,85,85	0
86	OHX	5	3942	7/7	0.98	0.09	87,87,87,87	0
86	OHX	5	3945	7/7	0.98	0.10	90,90,90,90	0
86	OHX	5	3947	7/7	0.98	0.09	75,75,75,75	0
86	OHX	5	3948	7/7	0.98	0.09	92,92,92,92	0
86	OHX	6	2082	7/7	0.98	0.08	119,119,119,119	0
86	OHX	5	3951	7/7	0.98	0.10	85,85,85,85	0
86	OHX	5	3952	7/7	0.98	0.14	109,109,109,109	0
86	OHX	5	3953	7/7	0.98	0.09	104,104,104,104	0
86	OHX	6	2083	7/7	0.98	0.08	119,119,119,119	0
86	OHX	5	3957	7/7	0.98	0.10	96,96,96,96	0
86	OHX	5	3959	7/7	0.98	0.10	89,89,89,89	0
86	OHX	5	3961	7/7	0.98	0.09	77,77,77,77	0
86	OHX	1	3923	7/7	0.98	0.11	111,111,111,111	0
86	OHX	5	3965	7/7	0.98	0.15	88,88,88,88	0
86	OHX	2	2046	7/7	0.98	0.10	107,107,107,107	0
86	OHX	5	3968	7/7	0.98	0.10	97,97,97,97	0
86	OHX	5	3970	7/7	0.98	0.09	100,100,100,100	0
86	OHX	5	3973	7/7	0.98	0.13	87,87,87,87	0
86	OHX	1	3926	7/7	0.98	0.09	111,111,111,111	0
86	OHX	2	2047	7/7	0.98	0.07	117,117,117,117	0
86	OHX	6	2089	7/7	0.98	0.09	113,113,113,113	0
86	OHX	5	3980	7/7	0.98	0.10	100,100,100,100	0
86	OHX	5	3981	7/7	0.98	0.09	112,112,112,112	0
86	OHX	5	3982	7/7	0.98	0.12	95,95,95,95	0
86	OHX	1	3930	7/7	0.98	0.11	107,107,107,107	0
86	OHX	5	3985	7/7	0.98	0.15	98,98,98,98	0
86	OHX	5	3987	7/7	0.98	0.15	95,95,95,95	0
86	OHX	5	3988	7/7	0.98	0.09	107,107,107,107	0
86	OHX	5	3989	7/7	0.98	0.08	121,121,121,121	0
86	OHX	6	2091	7/7	0.98	0.09	116,116,116,116	0
86	OHX	5	3992	7/7	0.98	0.14	97,97,97,97	0
86	OHX	6	2092	7/7	0.98	0.10	113,113,113,113	0
85	MG	1	3574	1/1	0.98	0.23	24,24,24,24	0
86	OHX	1	3933	7/7	0.98	0.10	101,101,101,101	0
86	OHX	6	2095	7/7	0.98	0.08	129,129,129,129	0
86	OHX	1	4046	7/7	0.98	0.09	126,126,126,126	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3998	7/7	0.98	0.08	120,120,120,120	0
86	OHX	5	3999	7/7	0.98	0.07	108,108,108,108	0
85	MG	6	1973	1/1	0.98	0.08	50,50,50,50	0
86	OHX	1	4154	7/7	0.98	0.10	110,110,110,110	0
86	OHX	1	3935	7/7	0.98	0.11	98,98,98,98	0
86	OHX	6	2100	7/7	0.98	0.08	158,158,158,158	0
86	OHX	5	4004	7/7	0.98	0.14	102,102,102,102	0
86	OHX	5	4005	7/7	0.98	0.10	111,111,111,111	0
86	OHX	6	2101	7/7	0.98	0.07	116,116,116,116	0
86	OHX	5	4007	7/7	0.98	0.07	126,126,126,126	0
86	OHX	5	4010	7/7	0.98	0.08	112,112,112,112	0
86	OHX	2	2052	7/7	0.98	0.08	109,109,109,109	0
86	OHX	6	2103	7/7	0.98	0.07	129,129,129,129	0
85	MG	1	3797	1/1	0.98	0.15	54,54,54,54	0
86	OHX	5	4014	7/7	0.98	0.12	100,100,100,100	0
86	OHX	1	3938	7/7	0.98	0.10	102,102,102,102	0
86	OHX	1	3939	7/7	0.98	0.11	102,102,102,102	0
86	OHX	1	3940	7/7	0.98	0.10	112,112,112,112	0
85	MG	5	3838	1/1	0.98	0.12	74,74,74,74	0
85	MG	5	3407	1/1	0.98	0.10	39,39,39,39	0
85	MG	5	3441	1/1	0.98	0.19	33,33,33,33	0
86	OHX	1	3945	7/7	0.98	0.09	110,110,110,110	0
86	OHX	1	3946	7/7	0.98	0.10	127,127,127,127	0
85	MG	1	3529	1/1	0.98	0.30	33,33,33,33	0
85	MG	5	3597	1/1	0.98	0.35	32,32,32,32	0
86	OHX	5	4199	7/7	0.98	0.17	94,94,94,94	0
86	OHX	2	2059	7/7	0.98	0.09	115,115,115,115	0
86	OHX	1	3951	7/7	0.98	0.14	103,103,103,103	0
86	OHX	5	4028	7/7	0.98	0.12	94,94,94,94	0
86	OHX	2	2060	7/7	0.98	0.09	124,124,124,124	0
86	OHX	1	3953	7/7	0.98	0.12	102,102,102,102	0
86	OHX	6	2119	7/7	0.98	0.09	127,127,127,127	0
86	OHX	2	2062	7/7	0.98	0.07	133,133,133,133	0
86	OHX	1	3956	7/7	0.98	0.09	111,111,111,111	0
86	OHX	5	4034	7/7	0.98	0.09	114,114,114,114	0
86	OHX	1	3957	7/7	0.98	0.07	113,113,113,113	0
86	OHX	1	3958	7/7	0.98	0.10	102,102,102,102	0
85	MG	1	3410	1/1	0.98	0.14	22,22,22,22	0
85	MG	6	1948	1/1	0.98	0.26	41,41,41,41	0
86	OHX	1	3962	7/7	0.98	0.12	103,103,103,103	0
86	OHX	2	2065	7/7	0.98	0.10	118,118,118,118	0
85	MG	14	401	1/1	0.98	0.05	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3511	1/1	0.98	0.27	38,38,38,38	0
86	OHX	1	3966	7/7	0.98	0.12	104,104,104,104	0
86	OHX	1	3967	7/7	0.98	0.08	109,109,109,109	0
85	MG	5	3679	1/1	0.98	0.18	43,43,43,43	0
86	OHX	1	3969	7/7	0.98	0.15	108,108,108,108	0
85	MG	1	3568	1/1	0.98	0.29	27,27,27,27	0
85	MG	O2	201	1/1	0.98	0.09	34,34,34,34	0
86	OHX	1	3972	7/7	0.98	0.09	112,112,112,112	0
86	OHX	2	2071	7/7	0.98	0.08	130,130,130,130	0
86	OHX	2	2072	7/7	0.98	0.09	132,132,132,132	0
86	OHX	2	2073	7/7	0.98	0.09	128,128,128,128	0
85	MG	5	3414	1/1	0.98	0.28	31,31,31,31	0
85	MG	1	3825	1/1	0.98	0.09	62,62,62,62	0
86	OHX	1	3978	7/7	0.98	0.13	86,86,86,86	0
85	MG	5	3485	1/1	0.98	0.29	47,47,47,47	0
85	MG	6	1982	1/1	0.98	0.12	54,54,54,54	0
85	MG	5	3487	1/1	0.98	0.23	28,28,28,28	0
85	MG	5	3565	1/1	0.98	0.12	28,28,28,28	0
85	MG	1	3661	1/1	0.98	0.25	50,50,50,50	0
86	OHX	6	2148	7/7	0.98	0.13	115,115,115,115	0
85	MG	O7	103	1/1	0.98	0.19	41,41,41,41	0
85	MG	m6	202	1/1	0.98	0.06	32,32,32,32	0
85	MG	1	3691	1/1	0.98	0.20	42,42,42,42	0
86	OHX	5	4066	7/7	0.98	0.07	120,120,120,120	0
85	MG	5	3772	1/1	0.98	0.09	31,31,31,31	0
85	MG	5	3454	1/1	0.98	0.14	30,30,30,30	0
86	OHX	1	3991	7/7	0.98	0.15	108,108,108,108	0
85	MG	1	3851	1/1	0.98	0.10	66,66,66,66	0
85	MG	m7	205	1/1	0.98	0.08	34,34,34,34	0
85	MG	1	3708	1/1	0.98	0.24	35,35,35,35	0
86	OHX	1	3995	7/7	0.98	0.07	148,148,148,148	0
85	MG	5	3864	1/1	0.98	0.06	47,47,47,47	0
85	MG	1	3676	1/1	0.98	0.24	43,43,43,43	0
85	MG	1	3560	1/1	0.98	0.30	36,36,36,36	0
85	MG	1	3808	1/1	0.98	0.10	43,43,43,43	0
86	OHX	3	215	7/7	0.98	0.09	108,108,108,108	0
85	MG	1	3512	1/1	0.98	0.31	25,25,25,25	0
86	OHX	7	217	7/7	0.98	0.10	105,105,105,105	0
86	OHX	7	218	7/7	0.98	0.14	101,101,101,101	0
86	OHX	7	219	7/7	0.98	0.17	104,104,104,104	0
86	OHX	5	4081	7/7	0.98	0.10	115,115,115,115	0
85	MG	6	1962	1/1	0.98	0.12	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2095	7/7	0.98	0.08	140,140,140,140	0
85	MG	1	3602	1/1	0.98	0.05	39,39,39,39	0
85	MG	1	3454	1/1	0.98	0.17	43,43,43,43	0
85	MG	1	3769	1/1	0.98	0.10	69,69,69,69	0
85	MG	5	3826	1/1	0.98	0.19	46,46,46,46	0
85	MG	5	3827	1/1	0.98	0.07	36,36,36,36	0
85	MG	1	3652	1/1	0.98	0.15	50,50,50,50	0
85	MG	6	2027	1/1	0.98	0.32	55,55,55,55	0
85	MG	2	1922	1/1	0.98	0.25	55,55,55,55	0
86	OHX	4	226	7/7	0.98	0.13	104,104,104,104	0
86	OHX	5	4093	7/7	0.98	0.10	119,119,119,119	0
85	MG	1	3791	1/1	0.98	0.10	31,31,31,31	0
86	OHX	4	228	7/7	0.98	0.08	123,123,123,123	0
86	OHX	4	229	7/7	0.98	0.08	125,125,125,125	0
86	OHX	2	2026	7/7	0.98	0.13	86,86,86,86	0
86	OHX	2	2029	7/7	0.98	0.10	98,98,98,98	0
86	OHX	2	2030	7/7	0.98	0.11	107,107,107,107	0
86	OHX	2	2031	7/7	0.98	0.14	97,97,97,97	0
86	OHX	l3	403	7/7	0.98	0.11	106,106,106,106	0
86	OHX	2	2032	7/7	0.98	0.08	117,117,117,117	0
86	OHX	2	2034	7/7	0.98	0.13	110,110,110,110	0
86	OHX	2	2036	7/7	0.98	0.12	103,103,103,103	0
85	MG	1	3716	1/1	0.98	0.07	36,36,36,36	0
86	OHX	2	2039	7/7	0.98	0.10	106,106,106,106	0
86	OHX	2	2040	7/7	0.98	0.10	103,103,103,103	0
85	MG	2	1903	1/1	0.98	0.27	41,41,41,41	0
86	OHX	1	3887	7/7	0.98	0.12	79,79,79,79	0
86	OHX	2	2116	7/7	0.98	0.10	125,125,125,125	0
86	OHX	5	4110	7/7	0.98	0.19	98,98,98,98	0
86	OHX	1	3896	7/7	0.98	0.11	89,89,89,89	0
86	OHX	1	3897	7/7	0.98	0.10	88,88,88,88	0
86	OHX	m6	203	7/7	0.98	0.12	100,100,100,100	0
86	OHX	1	3902	7/7	0.98	0.10	88,88,88,88	0
85	MG	1	3606	1/1	0.98	0.27	52,52,52,52	0
86	OHX	1	4030	7/7	0.98	0.14	106,106,106,106	0
86	OHX	o2	201	7/7	0.98	0.19	105,105,105,105	0
86	OHX	1	3908	7/7	0.98	0.10	100,100,100,100	0
86	OHX	o7	502	7/7	0.98	0.09	110,110,110,110	0
86	OHX	O7	104	7/7	0.98	0.10	102,102,102,102	0
86	OHX	q1	102	7/7	0.98	0.19	103,103,103,103	0
86	OHX	6	2050	7/7	0.98	0.11	73,73,73,73	0
86	OHX	6	2054	7/7	0.98	0.11	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
86	OHX	1	4032	7/7	0.98	0.06	150,150,150,150	0
88	ZN	E1	501	1/1	0.98	0.05	123,123,123,123	0
86	OHX	1	3912	7/7	0.98	0.09	105,105,105,105	0
86	OHX	1	3913	7/7	0.98	0.10	92,92,92,92	0
86	OHX	6	2069	7/7	0.98	0.12	90,90,90,90	0
86	OHX	6	2070	7/7	0.98	0.09	111,111,111,111	0
86	OHX	1	3927	7/7	0.99	0.12	92,92,92,92	0
86	OHX	5	3986	7/7	0.99	0.10	91,91,91,91	0
86	OHX	1	3928	7/7	0.99	0.06	87,87,87,87	0
86	OHX	2	2042	7/7	0.99	0.07	99,99,99,99	0
86	OHX	2	2043	7/7	0.99	0.07	104,104,104,104	0
86	OHX	5	3990	7/7	0.99	0.07	88,88,88,88	0
86	OHX	1	3931	7/7	0.99	0.06	84,84,84,84	0
85	MG	5	3759	1/1	0.99	0.08	46,46,46,46	0
85	MG	1	3448	1/1	0.99	0.07	27,27,27,27	0
85	MG	6	1927	1/1	0.99	0.36	47,47,47,47	0
85	MG	1	3726	1/1	0.99	0.07	70,70,70,70	0
86	OHX	N1	201	7/7	0.99	0.06	70,70,70,70	0
86	OHX	N9	102	7/7	0.99	0.11	68,68,68,68	0
86	OHX	2	2048	7/7	0.99	0.06	136,136,136,136	0
86	OHX	2	2049	7/7	0.99	0.06	118,118,118,118	0
86	OHX	Q2	503	7/7	0.99	0.14	86,86,86,86	0
86	OHX	6	2046	7/7	0.99	0.11	61,61,61,61	0
86	OHX	6	2047	7/7	0.99	0.13	75,75,75,75	0
86	OHX	6	2048	7/7	0.99	0.10	69,69,69,69	0
86	OHX	6	2049	7/7	0.99	0.08	75,75,75,75	0
85	MG	5	3586	1/1	0.99	0.29	24,24,24,24	0
86	OHX	6	2051	7/7	0.99	0.08	70,70,70,70	0
86	OHX	6	2052	7/7	0.99	0.10	78,78,78,78	0
86	OHX	5	4008	7/7	0.99	0.08	80,80,80,80	0
86	OHX	5	4009	7/7	0.99	0.11	105,105,105,105	0
86	OHX	6	2053	7/7	0.99	0.11	89,89,89,89	0
85	MG	5	3530	1/1	0.99	0.31	28,28,28,28	0
86	OHX	6	2056	7/7	0.99	0.07	77,77,77,77	0
86	OHX	6	2057	7/7	0.99	0.06	89,89,89,89	0
86	OHX	5	4174	7/7	0.99	0.17	93,93,93,93	0
86	OHX	6	2058	7/7	0.99	0.09	94,94,94,94	0
86	OHX	6	2059	7/7	0.99	0.06	87,87,87,87	0
86	OHX	6	2060	7/7	0.99	0.07	87,87,87,87	0
86	OHX	6	2061	7/7	0.99	0.07	88,88,88,88	0
86	OHX	6	2062	7/7	0.99	0.07	86,86,86,86	0
85	MG	1	3598	1/1	0.99	0.37	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	1	3941	7/7	0.99	0.07	99,99,99,99	0
85	MG	5	3562	1/1	0.99	0.24	20,20,20,20	0
86	OHX	6	2066	7/7	0.99	0.12	99,99,99,99	0
86	OHX	6	2067	7/7	0.99	0.09	94,94,94,94	0
86	OHX	5	4024	7/7	0.99	0.07	119,119,119,119	0
86	OHX	6	2068	7/7	0.99	0.07	102,102,102,102	0
85	MG	5	3853	1/1	0.99	0.10	51,51,51,51	0
86	OHX	2	2024	7/7	0.99	0.12	76,76,76,76	0
86	OHX	6	2071	7/7	0.99	0.14	94,94,94,94	0
86	OHX	2	2025	7/7	0.99	0.11	82,82,82,82	0
85	MG	5	3575	1/1	0.99	0.25	26,26,26,26	0
86	OHX	6	2074	7/7	0.99	0.08	90,90,90,90	0
86	OHX	1	3867	7/7	0.99	0.13	62,62,62,62	0
86	OHX	1	3948	7/7	0.99	0.07	103,103,103,103	0
86	OHX	1	3869	7/7	0.99	0.12	60,60,60,60	0
86	OHX	1	3870	7/7	0.99	0.08	59,59,59,59	0
86	OHX	6	2079	7/7	0.99	0.06	106,106,106,106	0
86	OHX	1	3871	7/7	0.99	0.10	68,68,68,68	0
86	OHX	1	3872	7/7	0.99	0.10	61,61,61,61	0
86	OHX	1	3873	7/7	0.99	0.08	66,66,66,66	0
86	OHX	1	3876	7/7	0.99	0.09	67,67,67,67	0
86	OHX	1	3955	7/7	0.99	0.15	81,81,81,81	0
86	OHX	1	3877	7/7	0.99	0.11	70,70,70,70	0
86	OHX	6	2086	7/7	0.99	0.07	118,118,118,118	0
86	OHX	1	3879	7/7	0.99	0.08	75,75,75,75	0
86	OHX	1	3880	7/7	0.99	0.11	68,68,68,68	0
86	OHX	1	3882	7/7	0.99	0.09	74,74,74,74	0
86	OHX	1	3883	7/7	0.99	0.08	70,70,70,70	0
86	OHX	1	3961	7/7	0.99	0.12	79,79,79,79	0
86	OHX	1	3884	7/7	0.99	0.09	74,74,74,74	0
86	OHX	1	3885	7/7	0.99	0.09	80,80,80,80	0
86	OHX	2	2027	7/7	0.99	0.08	86,86,86,86	0
86	OHX	1	3888	7/7	0.99	0.07	75,75,75,75	0
86	OHX	1	3890	7/7	0.99	0.08	74,74,74,74	0
86	OHX	1	3891	7/7	0.99	0.07	75,75,75,75	0
86	OHX	5	4055	7/7	0.99	0.07	107,107,107,107	0
86	OHX	1	3892	7/7	0.99	0.10	83,83,83,83	0
86	OHX	s1	302	7/7	0.99	0.09	86,86,86,86	0
86	OHX	2	2028	7/7	0.99	0.08	78,78,78,78	0
86	OHX	1	3894	7/7	0.99	0.10	81,81,81,81	0
86	OHX	1	3895	7/7	0.99	0.08	79,79,79,79	0
85	MG	5	3563	1/1	0.99	0.41	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	2	2061	7/7	0.99	0.08	108,108,108,108	0
86	OHX	1	3898	7/7	0.99	0.08	72,72,72,72	0
86	OHX	1	3899	7/7	0.99	0.06	85,85,85,85	0
86	OHX	1	3900	7/7	0.99	0.09	84,84,84,84	0
86	OHX	1	3901	7/7	0.99	0.09	77,77,77,77	0
85	MG	6	1905	1/1	0.99	0.26	54,54,54,54	0
86	OHX	5	3900	7/7	0.99	0.12	51,51,51,51	0
86	OHX	5	3901	7/7	0.99	0.12	49,49,49,49	0
86	OHX	5	3903	7/7	0.99	0.10	55,55,55,55	0
86	OHX	5	3904	7/7	0.99	0.14	58,58,58,58	0
86	OHX	5	3905	7/7	0.99	0.11	58,58,58,58	0
86	OHX	5	3906	7/7	0.99	0.11	62,62,62,62	0
86	OHX	5	3907	7/7	0.99	0.11	65,65,65,65	0
86	OHX	5	3908	7/7	0.99	0.10	62,62,62,62	0
86	OHX	5	3910	7/7	0.99	0.13	71,71,71,71	0
86	OHX	5	3911	7/7	0.99	0.08	62,62,62,62	0
86	OHX	5	4078	7/7	0.99	0.13	100,100,100,100	0
86	OHX	5	3913	7/7	0.99	0.12	65,65,65,65	0
86	OHX	5	3915	7/7	0.99	0.12	66,66,66,66	0
86	OHX	5	3916	7/7	0.99	0.07	70,70,70,70	0
86	OHX	5	3918	7/7	0.99	0.07	63,63,63,63	0
86	OHX	5	3919	7/7	0.99	0.07	72,72,72,72	0
86	OHX	5	3921	7/7	0.99	0.06	65,65,65,65	0
86	OHX	5	3922	7/7	0.99	0.07	69,69,69,69	0
86	OHX	5	3923	7/7	0.99	0.07	66,66,66,66	0
86	OHX	5	3924	7/7	0.99	0.10	74,74,74,74	0
86	OHX	5	3925	7/7	0.99	0.07	72,72,72,72	0
86	OHX	1	3979	7/7	0.99	0.06	119,119,119,119	0
86	OHX	5	3928	7/7	0.99	0.07	78,78,78,78	0
86	OHX	7	215	7/7	0.99	0.09	91,91,91,91	0
86	OHX	5	3929	7/7	0.99	0.06	77,77,77,77	0
86	OHX	1	3903	7/7	0.99	0.07	94,94,94,94	0
86	OHX	5	3932	7/7	0.99	0.08	75,75,75,75	0
86	OHX	1	3981	7/7	0.99	0.12	100,100,100,100	0
86	OHX	7	220	7/7	0.99	0.07	106,106,106,106	0
86	OHX	5	3934	7/7	0.99	0.06	73,73,73,73	0
86	OHX	5	3935	7/7	0.99	0.07	83,83,83,83	0
86	OHX	5	3936	7/7	0.99	0.05	81,81,81,81	0
86	OHX	5	3937	7/7	0.99	0.06	76,76,76,76	0
86	OHX	5	3938	7/7	0.99	0.08	78,78,78,78	0
86	OHX	5	3939	7/7	0.99	0.09	86,86,86,86	0
86	OHX	8	217	7/7	0.99	0.09	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
86	OHX	5	3940	7/7	0.99	0.12	88,88,88,88	0
86	OHX	1	3904	7/7	0.99	0.07	87,87,87,87	0
86	OHX	1	3905	7/7	0.99	0.10	91,91,91,91	0
86	OHX	5	3943	7/7	0.99	0.11	98,98,98,98	0
86	OHX	5	3944	7/7	0.99	0.09	83,83,83,83	0
85	MG	1	3793	1/1	0.99	0.16	41,41,41,41	0
86	OHX	5	3946	7/7	0.99	0.06	80,80,80,80	0
85	MG	5	3579	1/1	0.99	0.27	32,32,32,32	0
86	OHX	1	3909	7/7	0.99	0.06	86,86,86,86	0
86	OHX	5	3949	7/7	0.99	0.12	100,100,100,100	0
86	OHX	1	3910	7/7	0.99	0.07	87,87,87,87	0
86	OHX	1	3911	7/7	0.99	0.07	91,91,91,91	0
86	OHX	2	2033	7/7	0.99	0.07	104,104,104,104	0
85	MG	1	3520	1/1	0.99	0.06	39,39,39,39	0
86	OHX	5	3955	7/7	0.99	0.06	99,99,99,99	0
86	OHX	2	2035	7/7	0.99	0.09	103,103,103,103	0
86	OHX	4	222	7/7	0.99	0.09	59,59,59,59	0
86	OHX	5	3958	7/7	0.99	0.08	91,91,91,91	0
86	OHX	4	224	7/7	0.99	0.09	81,81,81,81	0
86	OHX	5	3960	7/7	0.99	0.08	75,75,75,75	0
86	OHX	4	225	7/7	0.99	0.14	94,94,94,94	0
86	OHX	5	3962	7/7	0.99	0.08	98,98,98,98	0
86	OHX	5	3963	7/7	0.99	0.06	92,92,92,92	0
86	OHX	1	3915	7/7	0.99	0.09	98,98,98,98	0
86	OHX	1	3916	7/7	0.99	0.07	92,92,92,92	0
86	OHX	5	3966	7/7	0.99	0.10	103,103,103,103	0
85	MG	5	3596	1/1	0.99	0.31	21,21,21,21	0
86	OHX	2	2037	7/7	0.99	0.06	97,97,97,97	0
86	OHX	5	3969	7/7	0.99	0.07	93,93,93,93	0
86	OHX	1	3919	7/7	0.99	0.08	98,98,98,98	0
86	OHX	n3	203	7/7	0.99	0.09	92,92,92,92	0
86	OHX	n9	101	7/7	0.99	0.09	70,70,70,70	0
86	OHX	5	3971	7/7	0.99	0.07	103,103,103,103	0
86	OHX	5	3972	7/7	0.99	0.08	91,91,91,91	0
86	OHX	1	3997	7/7	0.99	0.12	95,95,95,95	0
86	OHX	5	3974	7/7	0.99	0.08	87,87,87,87	0
86	OHX	1	3920	7/7	0.99	0.08	85,85,85,85	0
85	MG	1	3801	1/1	0.99	0.08	62,62,62,62	0
86	OHX	q2	502	7/7	0.99	0.10	87,87,87,87	0
86	OHX	5	3977	7/7	0.99	0.07	102,102,102,102	0
86	OHX	1	3922	7/7	0.99	0.14	80,80,80,80	0
86	OHX	5	3979	7/7	0.99	0.11	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	5	3862	1/1	0.99	0.08	63,63,63,63	0
86	OHX	1	3924	7/7	0.99	0.06	92,92,92,92	0
85	MG	1	3486	1/1	0.99	0.35	41,41,41,41	0
86	OHX	5	3983	7/7	0.99	0.13	91,91,91,91	0
85	MG	5	3883	1/1	0.99	0.25	58,58,58,58	0
86	OHX	6	2055	7/7	1.00	0.07	76,76,76,76	0
86	OHX	1	3868	7/7	1.00	0.10	55,55,55,55	0
86	OHX	8	218	7/7	1.00	0.08	60,60,60,60	0
86	OHX	1	3863	7/7	1.00	0.11	47,47,47,47	0
86	OHX	5	3954	7/7	1.00	0.06	78,78,78,78	0
86	OHX	5	3931	7/7	1.00	0.05	68,68,68,68	0
86	OHX	5	3909	7/7	1.00	0.07	52,52,52,52	0
86	OHX	1	3889	7/7	1.00	0.05	70,70,70,70	0
86	OHX	4	223	7/7	1.00	0.10	67,67,67,67	0
86	OHX	5	3912	7/7	1.00	0.06	59,59,59,59	0
86	OHX	1	3878	7/7	1.00	0.04	69,69,69,69	0
86	OHX	5	3914	7/7	1.00	0.07	67,67,67,67	0
86	OHX	1	3864	7/7	1.00	0.10	50,50,50,50	0
86	OHX	1	3865	7/7	1.00	0.08	52,52,52,52	0
86	OHX	5	3917	7/7	1.00	0.06	67,67,67,67	0
86	OHX	1	3881	7/7	1.00	0.05	64,64,64,64	0
86	OHX	1	3906	7/7	1.00	0.05	78,78,78,78	0
86	OHX	5	3920	7/7	1.00	0.08	70,70,70,70	0
86	OHX	1	3866	7/7	1.00	0.10	59,59,59,59	0
88	ZN	D6	500	1/1	1.00	0.02	80,80,80,80	0
85	MG	5	3822	1/1	1.00	0.06	55,55,55,55	0
88	ZN	D9	101	1/1	1.00	0.05	81,81,81,81	0
86	OHX	5	3902	7/7	1.00	0.09	47,47,47,47	0
88	ZN	O7	101	1/1	1.00	0.01	41,41,41,41	0
88	ZN	Q0	500	1/1	1.00	0.02	56,56,56,56	0
86	OHX	1	3874	7/7	1.00	0.06	64,64,64,64	0
88	ZN	Q3	501	1/1	1.00	0.02	68,68,68,68	0
88	ZN	d6	101	1/1	1.00	0.02	62,62,62,62	0
86	OHX	1	3875	7/7	1.00	0.06	60,60,60,60	0
88	ZN	d9	101	1/1	1.00	0.02	78,78,78,78	0
86	OHX	5	3926	7/7	1.00	0.05	63,63,63,63	0
88	ZN	o7	501	1/1	1.00	0.01	44,44,44,44	0
88	ZN	q0	201	1/1	1.00	0.02	37,37,37,37	0
86	OHX	1	3886	7/7	1.00	0.07	73,73,73,73	0
88	ZN	q3	501	1/1	1.00	0.03	75,75,75,75	0

6.5 Other polymers [i](#)

There are no such residues in this entry.