



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 04:08 PM UTC

PDB ID : 5FCJ / pdb_00005fcj
Title : Structure of the anisomycin-containing uL3 W255C mutant 80S yeast ribosome
Authors : Mailliot, J.; Garreau de Loubresse, N.; Yusupova, G.; Dinman, J.D.; Yusupov, M.
Deposited on : 2015-12-15
Resolution : 3.10 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

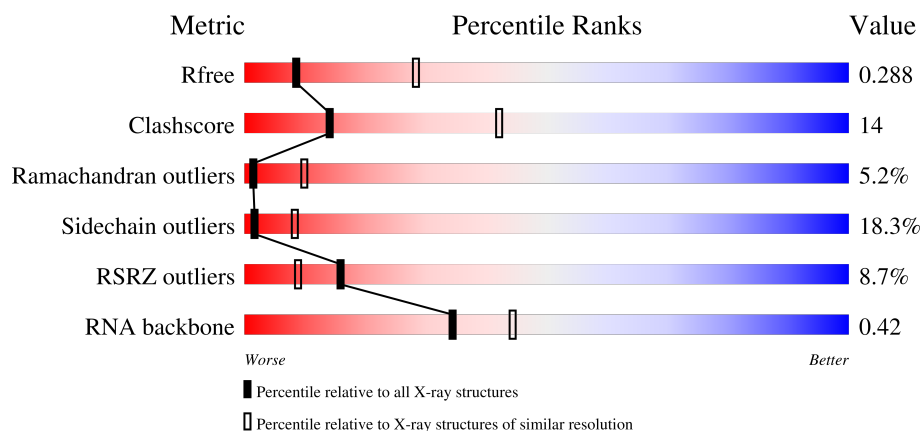
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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	1456 (3.10-3.10)
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)
RNA backbone	3983	1022 (3.32-2.88)

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	<div> <div>11%</div> <div>39%</div> <div>44%</div> <div>16%</div> <div>.</div> </div>
1	6	1800	<div> <div>9%</div> <div>44%</div> <div>41%</div> <div>15%</div> </div>
2	S0	251	<div> <div>11%</div> <div>37%</div> <div>35%</div> <div>9%</div> <div>.</div> <div>18%</div> </div>
2	s0	251	<div> <div>40%</div> <div>38%</div> <div>32%</div> <div>12%</div> <div>18%</div> </div>

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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	96	
12	c0	96	
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	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
34	sR	318	
35	SM	182	
35	sM	182	
36	1	3396	
36	5	3396	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	253	
39	l2	253	
40	L3	386	

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

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

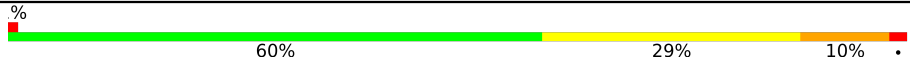

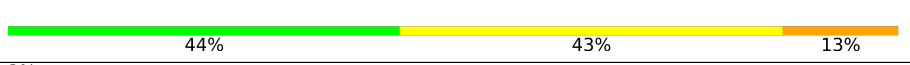
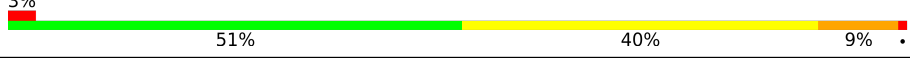
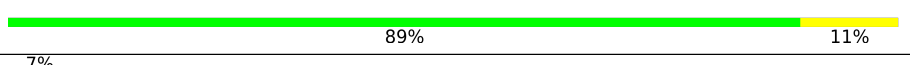

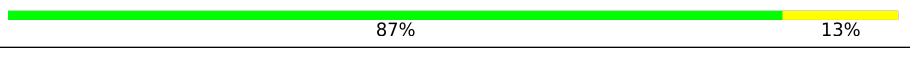
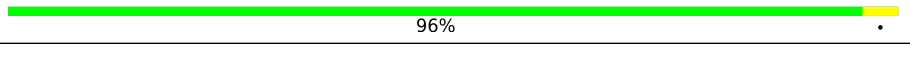
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Mol	Chain	Length	Quality of chain
65	n9	58	<div> <div>9%</div> <div>57%</div> <div>28%</div> <div>10%</div> <div>5%</div> </div>
66	O0	104	<div> <div>4%</div> <div>46%</div> <div>37%</div> <div>11%</div> <div>7%</div> </div>
66	o0	104	<div> <div>6%</div> <div>50%</div> <div>33%</div> <div>12%</div> <div>• •</div> </div>
67	O1	112	<div> <div>6%</div> <div>50%</div> <div>38%</div> <div>8%</div> <div>• •</div> </div>
67	o1	112	<div> <div>8%</div> <div>57%</div> <div>29%</div> <div>11%</div> <div>•</div> </div>
68	O2	129	<div> <div>2%</div> <div>47%</div> <div>45%</div> <div>5%</div> <div>• •</div> </div>
68	o2	129	<div> <div>9%</div> <div>55%</div> <div>31%</div> <div>11%</div> <div>• •</div> </div>
69	O3	106	<div> <div>4%</div> <div>66%</div> <div>30%</div> <div>•</div> </div>
69	o3	106	<div> <div>2%</div> <div>60%</div> <div>37%</div> <div>•</div> </div>
70	O4	120	<div> <div>13%</div> <div>46%</div> <div>42%</div> <div>5%</div> <div>• 7%</div> </div>
70	o4	120	<div> <div>12%</div> <div>51%</div> <div>32%</div> <div>10%</div> <div>• 7%</div> </div>
71	O5	119	<div> <div>3%</div> <div>56%</div> <div>34%</div> <div>10%</div> </div>
71	o5	119	<div> <div>4%</div> <div>51%</div> <div>39%</div> <div>9%</div> </div>
72	O6	99	<div> <div>8%</div> <div>42%</div> <div>40%</div> <div>16%</div> <div>•</div> </div>
72	o6	99	<div> <div>10%</div> <div>46%</div> <div>39%</div> <div>13%</div> <div>•</div> </div>
73	O7	87	<div> <div>2%</div> <div>57%</div> <div>37%</div> <div>5%</div> <div>•</div> </div>
73	o7	87	<div> <div>5%</div> <div>60%</div> <div>32%</div> <div>8%</div> </div>
74	O8	77	<div> <div>5%</div> <div>44%</div> <div>49%</div> <div>6%</div> </div>
74	o8	77	<div> <div>9%</div> <div>60%</div> <div>30%</div> <div>10%</div> </div>
75	O9	50	<div> <div>10%</div> <div>44%</div> <div>42%</div> <div>14%</div> </div>
75	o9	50	<div> <div>56%</div> <div>40%</div> <div>•</div> </div>
76	Q0	52	<div> <div>4%</div> <div>56%</div> <div>31%</div> <div>12%</div> <div>•</div> </div>
76	q0	52	<div> <div>2%</div> <div>69%</div> <div>21%</div> <div>8%</div> <div>•</div> </div>
77	Q1	25	<div> <div>8%</div> <div>48%</div> <div>32%</div> <div>20%</div> </div>
77	q1	25	<div> <div>8%</div> <div>44%</div> <div>44%</div> <div>12%</div> </div>

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Mol	Chain	Length	Quality of chain
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	m2	150	
81	p0	311	
82	p1	47	
83	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
84	MG	1	3406	-	-	-	X
84	MG	1	3414	-	-	-	X
84	MG	1	3449	-	-	-	X
84	MG	1	3500	-	-	-	X
84	MG	1	3518	-	-	-	X
84	MG	1	3563	-	-	-	X
84	MG	1	3567	-	-	-	X
84	MG	1	3569	-	-	-	X
84	MG	1	3570	-	-	-	X
84	MG	1	3586	-	-	-	X
84	MG	1	3650	-	-	-	X
84	MG	1	3705	-	-	-	X
84	MG	1	3709	-	-	-	X
84	MG	2	1904	-	-	-	X
84	MG	2	1910	-	-	-	X
84	MG	2	1917	-	-	-	X
84	MG	2	1920	-	-	-	X
84	MG	2	1921	-	-	-	X
84	MG	2	1922	-	-	-	X
84	MG	2	1923	-	-	-	X
84	MG	2	1924	-	-	-	X
84	MG	2	1925	-	-	-	X
84	MG	2	1927	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
84	MG	2	1932	-	-	-	X
84	MG	2	1940	-	-	-	X
84	MG	2	1946	-	-	-	X
84	MG	2	1947	-	-	-	X
84	MG	2	1952	-	-	-	X
84	MG	2	1953	-	-	-	X
84	MG	2	1954	-	-	-	X
84	MG	2	1956	-	-	-	X
84	MG	2	1957	-	-	-	X
84	MG	2	1962	-	-	-	X
84	MG	2	1965	-	-	-	X
84	MG	2	1969	-	-	-	X
84	MG	2	1978	-	-	-	X
84	MG	4	203	-	-	-	X
84	MG	5	3457	-	-	-	X
84	MG	5	3532	-	-	-	X
84	MG	5	3533	-	-	-	X
84	MG	5	3608	-	-	-	X
84	MG	5	3641	-	-	-	X
84	MG	5	3693	-	-	-	X
84	MG	6	1909	-	-	-	X
84	MG	6	1921	-	-	-	X
84	MG	6	1926	-	-	-	X
84	MG	6	1927	-	-	-	X
84	MG	6	1930	-	-	-	X
84	MG	6	1937	-	-	-	X
84	MG	6	1938	-	-	-	X
84	MG	6	1951	-	-	-	X
84	MG	6	1952	-	-	-	X
84	MG	6	1955	-	-	-	X
84	MG	6	1956	-	-	-	X
84	MG	6	1959	-	-	-	X
84	MG	6	1971	-	-	-	X
84	MG	6	1975	-	-	-	X
84	MG	6	1993	-	-	-	X
84	MG	6	2002	-	-	-	X
85	OHX	1	3818	-	-	X	-
85	OHX	1	3832	-	-	X	-
85	OHX	1	3836	-	-	X	-
85	OHX	1	3880	-	-	X	-
85	OHX	1	3904	-	-	X	-
85	OHX	1	3912	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	OHX	1	3916	-	-	X	-
85	OHX	1	3927	-	-	X	-
85	OHX	1	3940	-	-	X	-
85	OHX	1	3944	-	-	X	-
85	OHX	1	3975	-	-	X	-
85	OHX	1	4004	-	-	X	-
85	OHX	1	4008	-	-	X	-
85	OHX	1	4009	-	-	X	-
85	OHX	1	4017	-	-	X	-
85	OHX	2	2048	-	-	X	-
85	OHX	2	2054	-	-	X	-
85	OHX	2	2068	-	-	X	-
85	OHX	2	2079	-	-	X	-
85	OHX	5	3806	-	-	X	-
85	OHX	5	3822	-	-	X	-
85	OHX	5	3844	-	-	X	-
85	OHX	5	3846	-	-	X	-
85	OHX	5	3854	-	-	X	-
85	OHX	5	3877	-	-	X	-
85	OHX	5	3898	-	-	X	-
85	OHX	5	3923	-	-	X	-
85	OHX	5	3934	-	-	X	-
85	OHX	5	4007	-	-	X	-
85	OHX	5	4025	-	-	X	-
85	OHX	5	4027	-	-	X	-
85	OHX	5	4035	-	-	X	-
85	OHX	5	4036	-	-	X	-
85	OHX	5	4037	-	-	X	-
85	OHX	5	4038	-	-	X	-
85	OHX	5	4049	-	-	X	-
85	OHX	5	4054	-	-	X	-
85	OHX	6	2023	-	-	X	-
85	OHX	6	2109	-	-	X	-
85	OHX	6	2116	-	-	X	-
85	OHX	6	2121	-	-	X	-
85	OHX	6	2152	-	-	X	-
85	OHX	7	219	-	-	X	-
87	ANM	1	3401	X	-	X	-

2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 410912 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1612	1034	285	291	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
			1492	957	267	268			

- 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,40S ribosomal protein S10-A,40S ribosomal protein S10-A,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			

- Molecule 13 is a protein called 40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S ribosomal protein S11-A,40S ribosomal protein S11-A (uS17).

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
			1169	748	221	197	3			

- 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
			890	560	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O		0	0	0
			1105	708	203	194				
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
			944	591	179	172	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			
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			

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			
34	sR	318	Total	C	N	O	S	0	0	0
			2445	1546	419	472	8			

- Molecule 35 is a protein called Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	5	3150	Total	C	N	O	P	0	0	0
			67377	30095	12145	21987	3150			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1918	1193	389	335	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
			3067	1942	583	533	9			
40	l3	386	Total	C	N	O	S	0	0	0
			3073	1948	583	533	9			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L3	255	CYS	TRP	engineered mutation	UNP P14126
l3	255	CYS	TRP	engineered mutation	UNP P14126

- 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
			2749	1730	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			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	19	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
			1733	1101	327	299	6			

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

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

- 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				
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	S	0	0	0
			796	516	131	149				
58	n2	98	Total	C	N	O	S	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
			1089	682	219	187	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	S	0	0	0
			993	625	192	176				

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
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
			890	565	168	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
			881	546	179	152	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			969	615	186	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
			771	481	156	132	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
			612	391	115	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			

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

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

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

- Molecule 80 is a protein called 60S ribosomal protein L12-A (uL11).

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

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

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

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

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

- Molecule 83 is a protein called 60S ribosomal protein P2 beta.

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

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	2	82	Total	Mg	0	0
			82	82		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	S4	1	Total 1	Mg 1	0	0
84	D9	1	Total 1	Mg 1	0	0
84	SM	1	Total 1	Mg 1	0	0
84	1	330	Total 330	Mg 330	0	0
84	3	10	Total 10	Mg 10	0	0
84	4	14	Total 14	Mg 14	0	0
84	L2	2	Total 2	Mg 2	0	0
84	L3	1	Total 1	Mg 1	0	0
84	L6	1	Total 1	Mg 1	0	0
84	L7	1	Total 1	Mg 1	0	0
84	M0	1	Total 1	Mg 1	0	0
84	M3	1	Total 1	Mg 1	0	0
84	M5	1	Total 1	Mg 1	0	0
84	M6	1	Total 1	Mg 1	0	0
84	M7	4	Total 4	Mg 4	0	0
84	N3	1	Total 1	Mg 1	0	0
84	N8	2	Total 2	Mg 2	0	0
84	O2	1	Total 1	Mg 1	0	0
84	O3	1	Total 1	Mg 1	0	0
84	O4	2	Total 2	Mg 2	0	0
84	O7	2	Total 2	Mg 2	0	0

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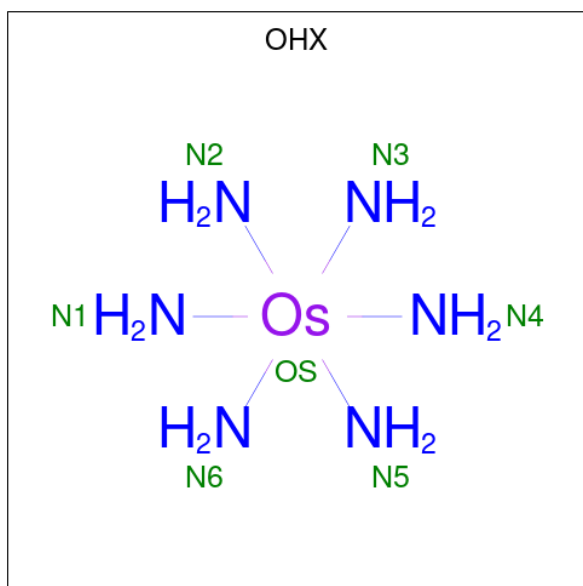
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	Q2	1	Total 1	Mg 1	0	0
84	6	110	Total 110	Mg 110	0	0
84	s8	1	Total 1	Mg 1	0	0
84	c1	1	Total 1	Mg 1	0	0
84	d6	1	Total 1	Mg 1	0	0
84	sM	2	Total 2	Mg 2	0	0
84	5	349	Total 349	Mg 349	0	0
84	7	10	Total 10	Mg 10	0	0
84	8	10	Total 10	Mg 10	0	0
84	l2	3	Total 3	Mg 3	0	0
84	l3	5	Total 5	Mg 5	0	0
84	l6	1	Total 1	Mg 1	0	0
84	l7	1	Total 1	Mg 1	0	0
84	l8	1	Total 1	Mg 1	0	0
84	l9	1	Total 1	Mg 1	0	0
84	m1	1	Total 1	Mg 1	0	0
84	m5	3	Total 3	Mg 3	0	0
84	m6	1	Total 1	Mg 1	0	0
84	m7	3	Total 3	Mg 3	0	0
84	n0	2	Total 2	Mg 2	0	0
84	n3	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	n6	2	Total	Mg	0	0
			2	2		
84	n8	2	Total	Mg	0	0
			2	2		
84	n9	1	Total	Mg	0	0
			1	1		
84	o1	1	Total	Mg	0	0
			1	1		
84	o3	1	Total	Mg	0	0
			1	1		
84	o4	1	Total	Mg	0	0
			1	1		
84	q0	1	Total	Mg	0	0
			1	1		
84	q1	1	Total	Mg	0	0
			1	1		

- Molecule 85 is osmium (III) hexammine (CCD ID: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
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85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
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85	2	1	Total	N	Os	0	0
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85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		
85	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	2	1	Total 7	N 6	Os 1	0	0
85	S6	1	Total 7	N 6	Os 1	0	0
85	S8	1	Total 7	N 6	Os 1	0	0
85	C3	1	Total 7	N 6	Os 1	0	0
85	C5	1	Total 7	N 6	Os 1	0	0
85	C8	1	Total 7	N 6	Os 1	0	0
85	D9	1	Total 7	N 6	Os 1	0	0
85	SR	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0
85	1	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
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85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
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85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
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85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
85	1	1	Total	N	Os	0	0
			7	6	1		
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	1	1	Total	N	Os	0	0
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85	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	3	1	Total	N	Os	0	0
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85	3	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	L3	1	Total	N	Os	0	0
			7	6	1		
85	L3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	L4	1	Total 7	N 6	Os 1	0	0
85	M0	1	Total 7	N 6	Os 1	0	0
85	M5	1	Total 7	N 6	Os 1	0	0
85	M6	1	Total 7	N 6	Os 1	0	0
85	M7	1	Total 7	N 6	Os 1	0	0
85	M9	1	Total 7	N 6	Os 1	0	0
85	N1	1	Total 7	N 6	Os 1	0	0
85	N8	1	Total 7	N 6	Os 1	0	0
85	N9	1	Total 7	N 6	Os 1	0	0
85	O3	1	Total 7	N 6	Os 1	0	0
85	O7	1	Total 7	N 6	Os 1	0	0
85	O7	1	Total 7	N 6	Os 1	0	0
85	O9	1	Total 7	N 6	Os 1	0	0
85	Q2	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0
85	6	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	6	1	Total	N	Os	0	0
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85	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	6	1	Total	N	Os	0	0
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85	6	1	Total	N	Os	0	0
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85	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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85	6	1	Total	N	Os	0	0
			7	6	1		
85	6	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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85	s9	1	Total	N	Os	0	0
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85	c3	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	5	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	7	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	8	1	Total	N	Os	0	0
			7	6	1		
85	8	1	Total	N	Os	0	0
			7	6	1		
85	l3	1	Total	N	Os	0	0
			7	6	1		
85	l3	1	Total	N	Os	0	0
			7	6	1		
85	l3	1	Total	N	Os	0	0
			7	6	1		
85	l4	1	Total	N	Os	0	0
			7	6	1		
85	l4	1	Total	N	Os	0	0
			7	6	1		
85	l5	1	Total	N	Os	0	0
			7	6	1		
85	l5	1	Total	N	Os	0	0
			7	6	1		
85	l9	1	Total	N	Os	0	0
			7	6	1		
85	m0	1	Total	N	Os	0	0
			7	6	1		
85	m0	1	Total	N	Os	0	0
			7	6	1		
85	m1	1	Total	N	Os	0	0
			7	6	1		
85	m5	1	Total	N	Os	0	0
			7	6	1		
85	m5	1	Total	N	Os	0	0
			7	6	1		
85	m7	1	Total	N	Os	0	0
			7	6	1		
85	n3	1	Total	N	Os	0	0
			7	6	1		
85	n3	1	Total	N	Os	0	0
			7	6	1		
85	n9	1	Total	N	Os	0	0
			7	6	1		
85	o3	1	Total	N	Os	0	0
			7	6	1		
85	o7	1	Total	N	Os	0	0
			7	6	1		

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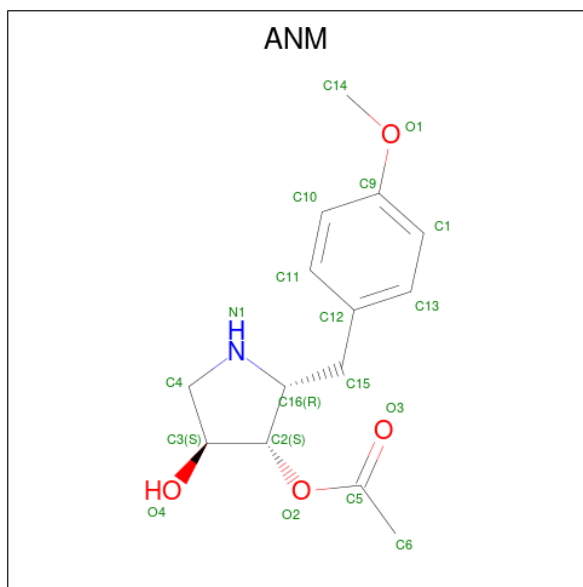
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
85	o9	1	Total	N	Os	0	0
			7	6	1		
85	q2	1	Total	N	Os	0	0
			7	6	1		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	D6	1	Total	Zn	0	0
			1	1		
86	D7	1	Total	Zn	0	0
			1	1		
86	D9	1	Total	Zn	0	0
			1	1		
86	E1	1	Total	Zn	0	0
			1	1		
86	O7	1	Total	Zn	0	0
			1	1		
86	Q0	1	Total	Zn	0	0
			1	1		
86	Q2	1	Total	Zn	0	0
			1	1		
86	Q3	1	Total	Zn	0	0
			1	1		
86	d6	1	Total	Zn	0	0
			1	1		
86	d7	1	Total	Zn	0	0
			1	1		
86	d9	1	Total	Zn	0	0
			1	1		
86	e1	1	Total	Zn	0	0
			1	1		
86	o7	1	Total	Zn	0	0
			1	1		
86	q0	1	Total	Zn	0	0
			1	1		
86	q2	1	Total	Zn	0	0
			1	1		
86	q3	1	Total	Zn	0	0
			1	1		

- Molecule 87 is ANISOMYCIN (CCD ID: ANM) (formula: C₁₄H₁₉NO₄).

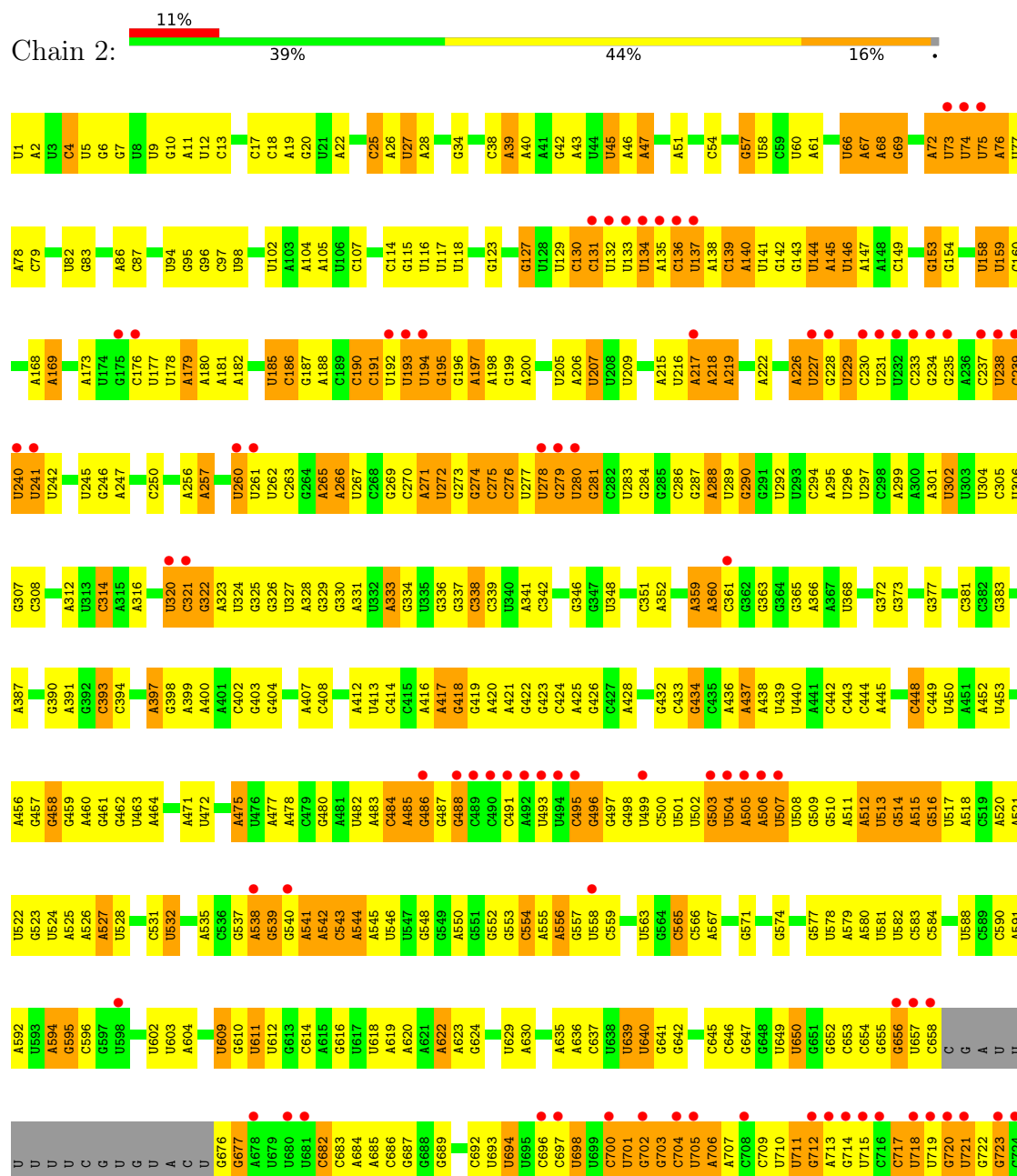


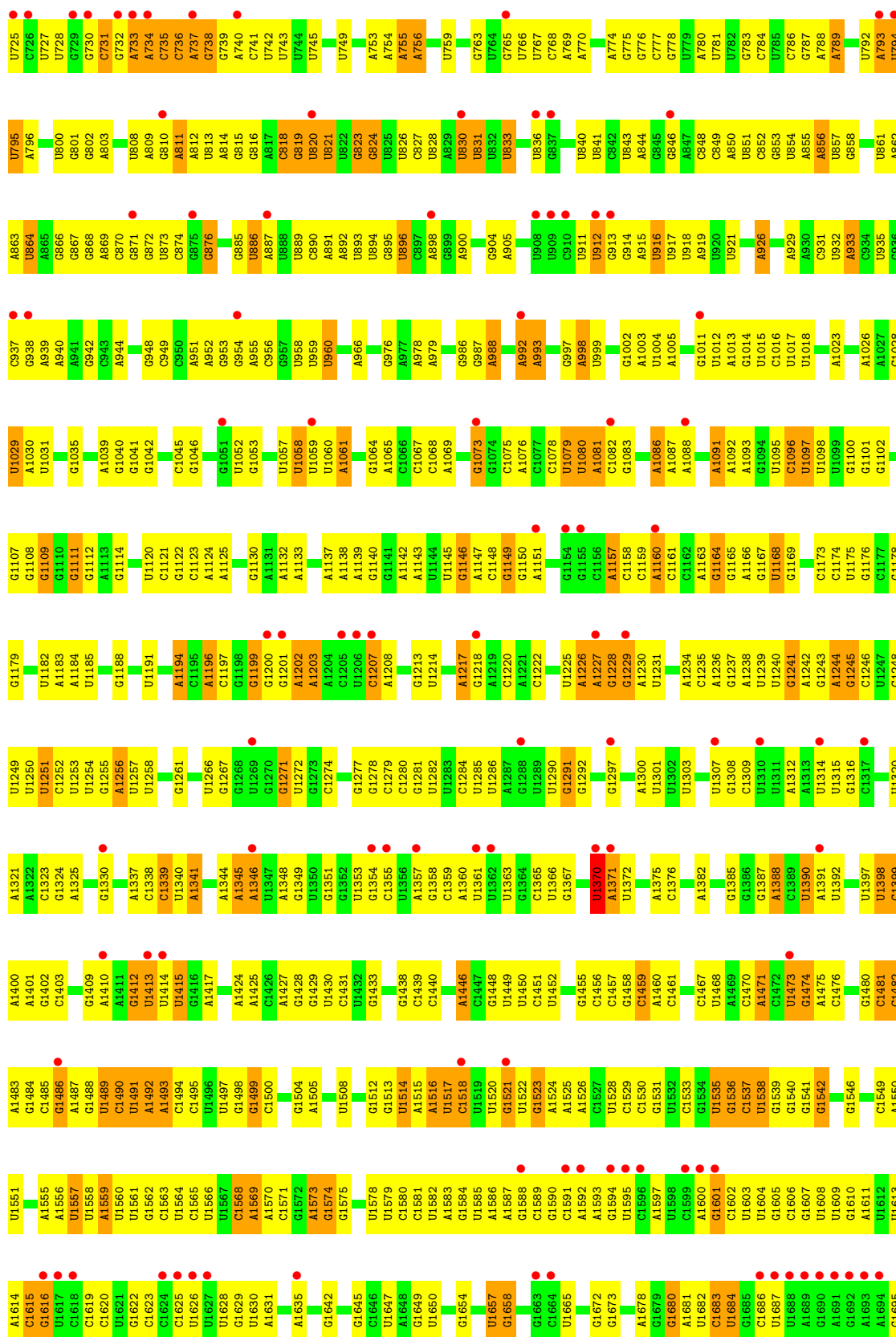
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
87	1	1	19	14	1	4	0	0

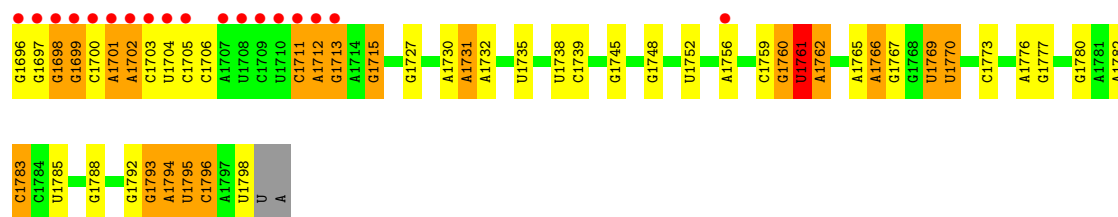
3 Residue-property plots

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.

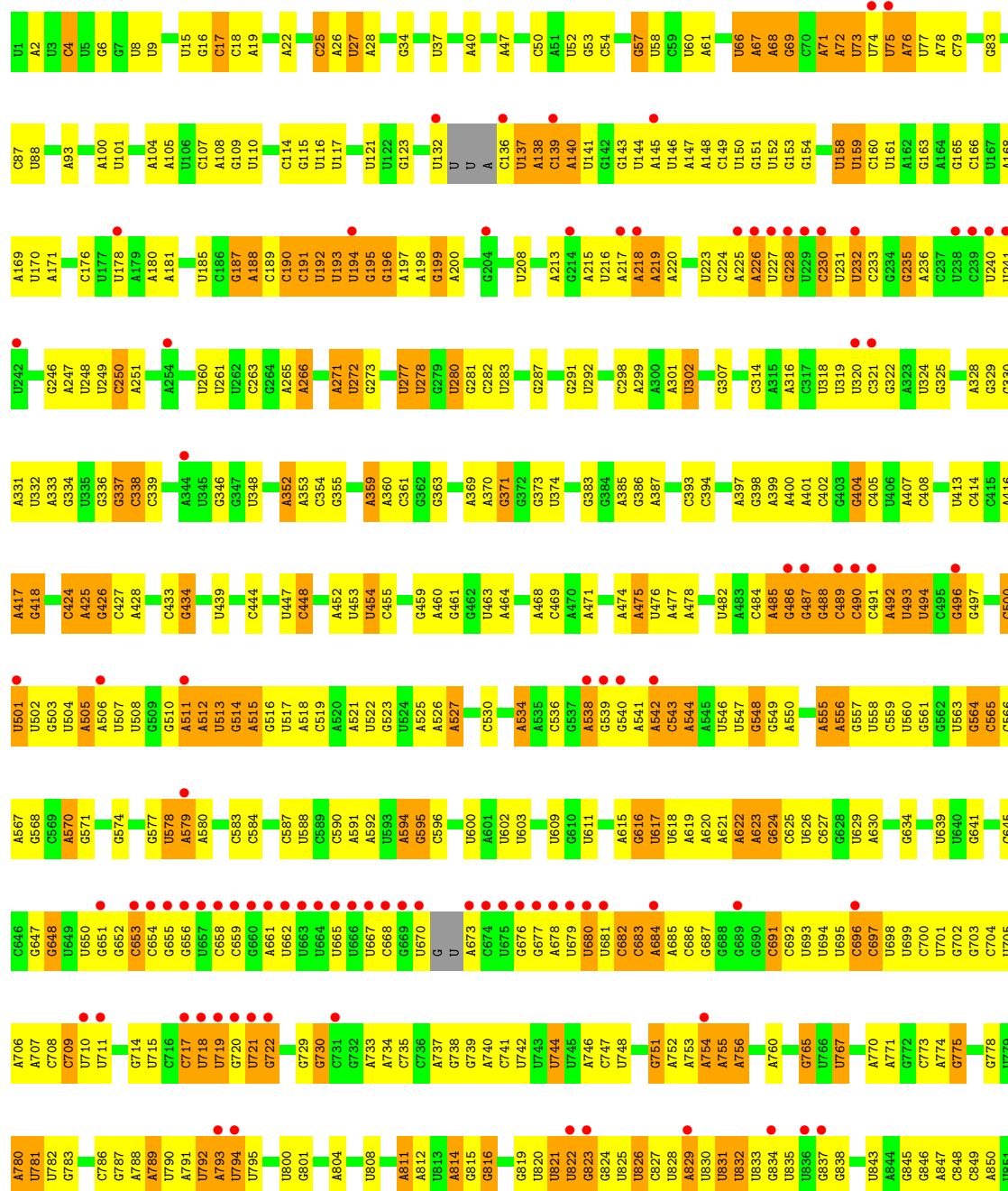
- Molecule 1: 18S ribosomal RNA

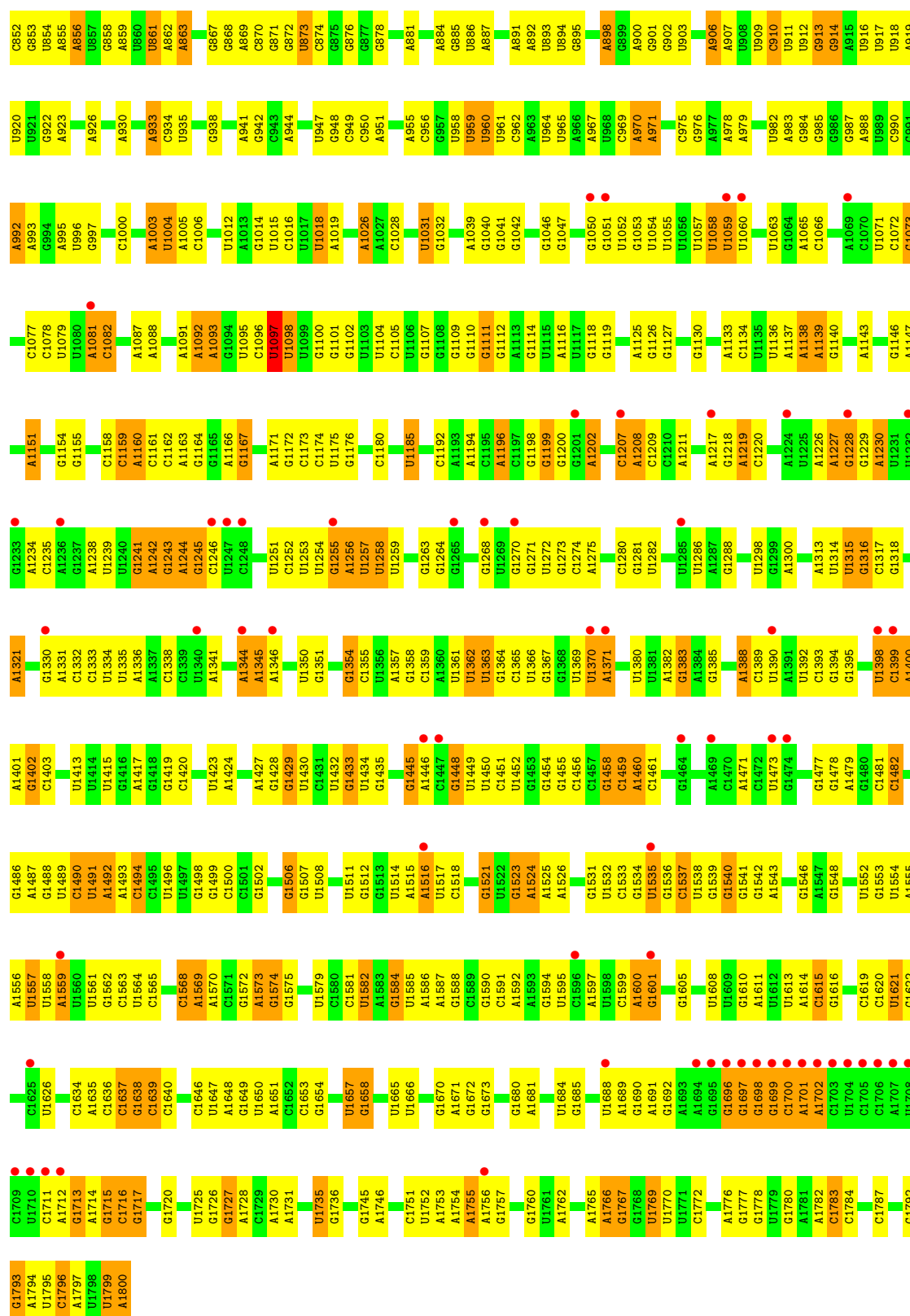






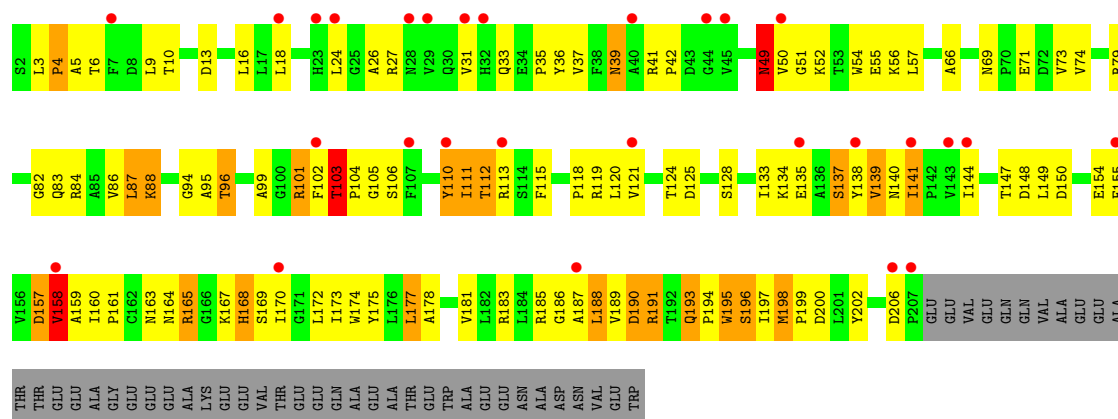
● Molecule 1: 18S ribosomal RNA



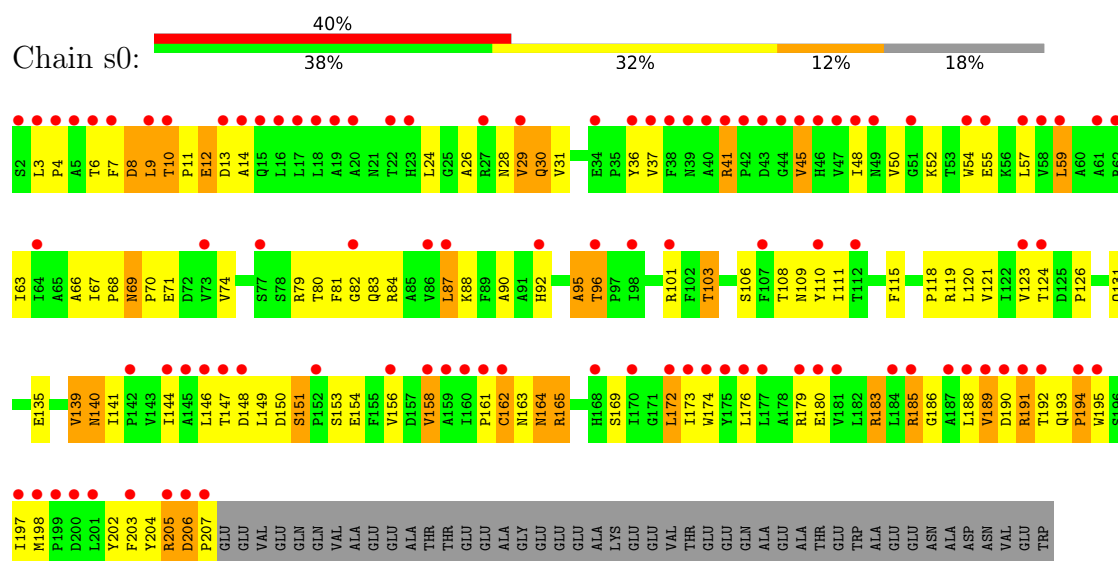


• Molecule 2: 40S ribosomal protein S0-A

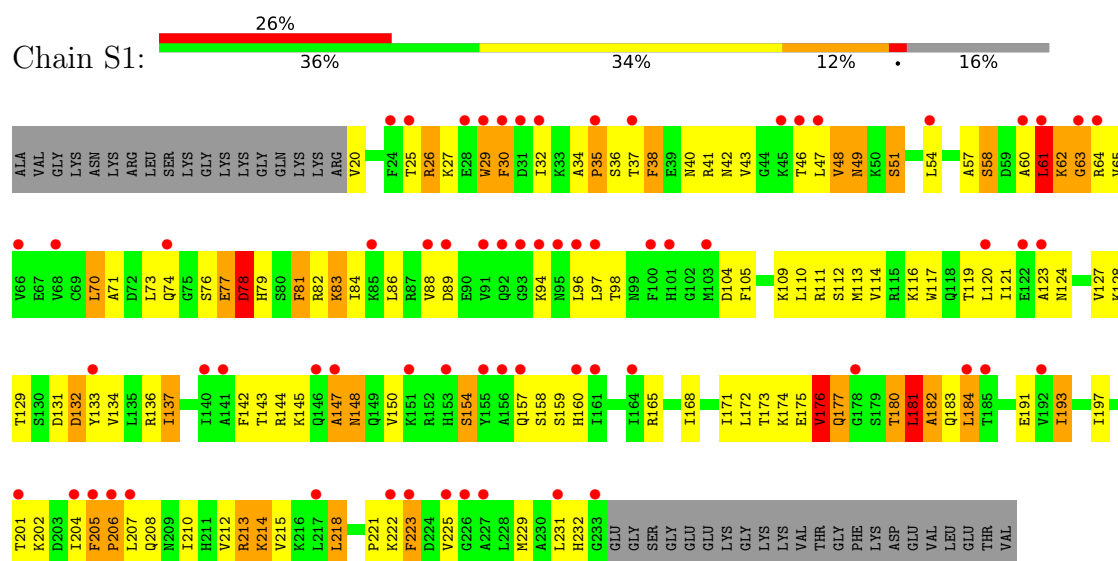




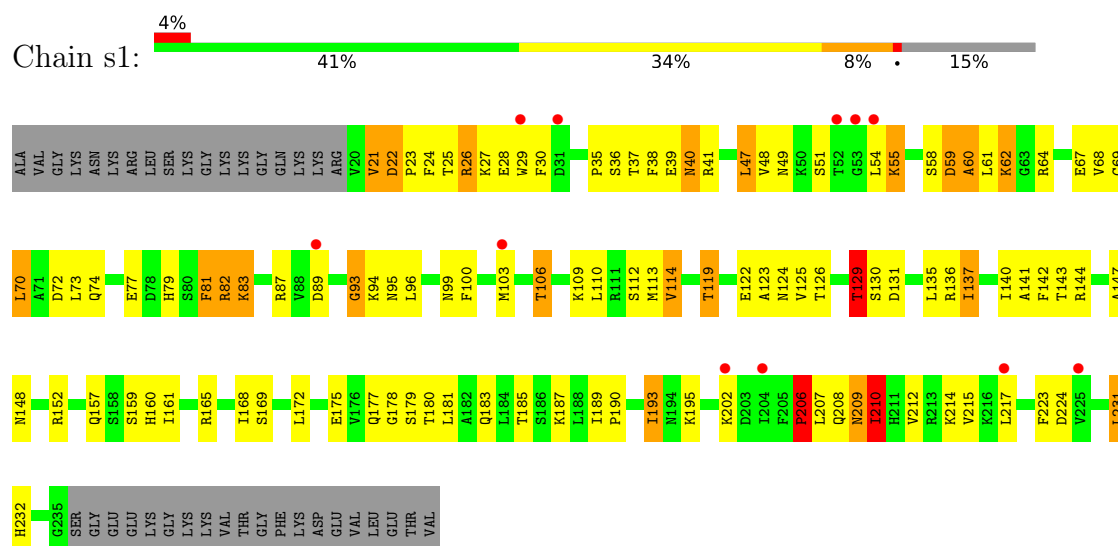
• Molecule 2: 40S ribosomal protein S0-A



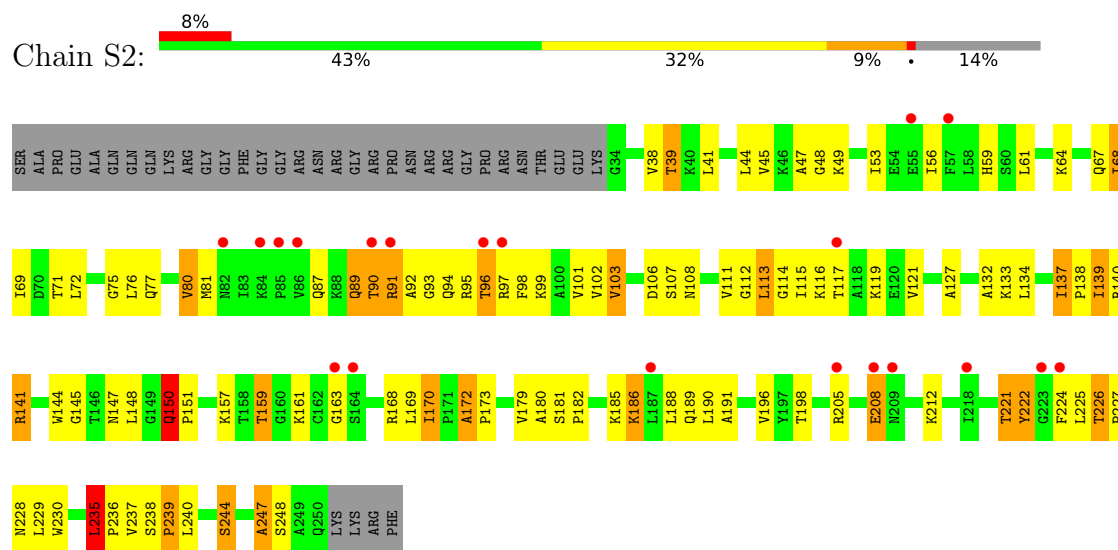
• Molecule 3: 40S ribosomal protein S1-A



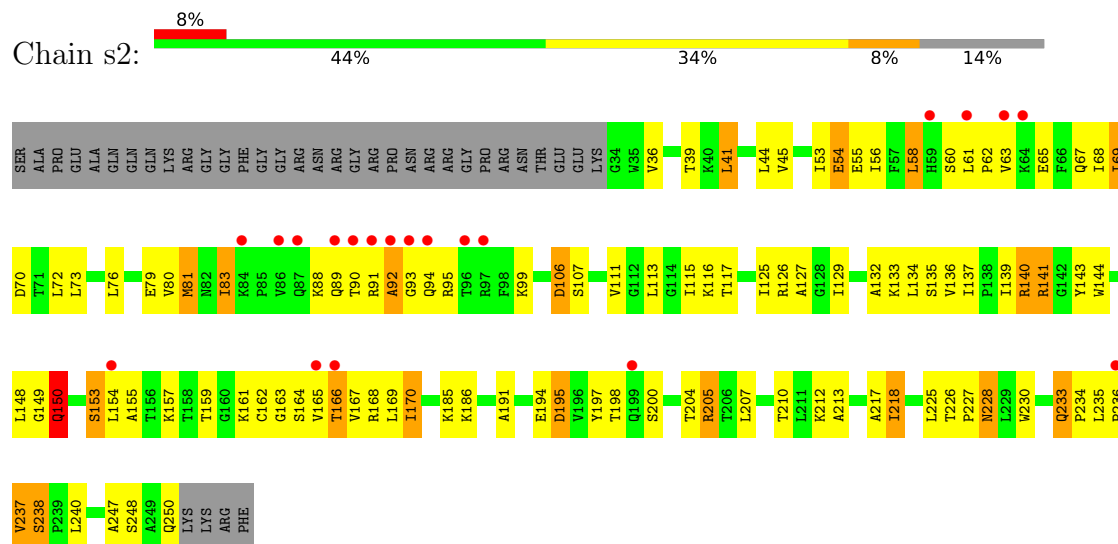
• Molecule 3: 40S ribosomal protein S1-A



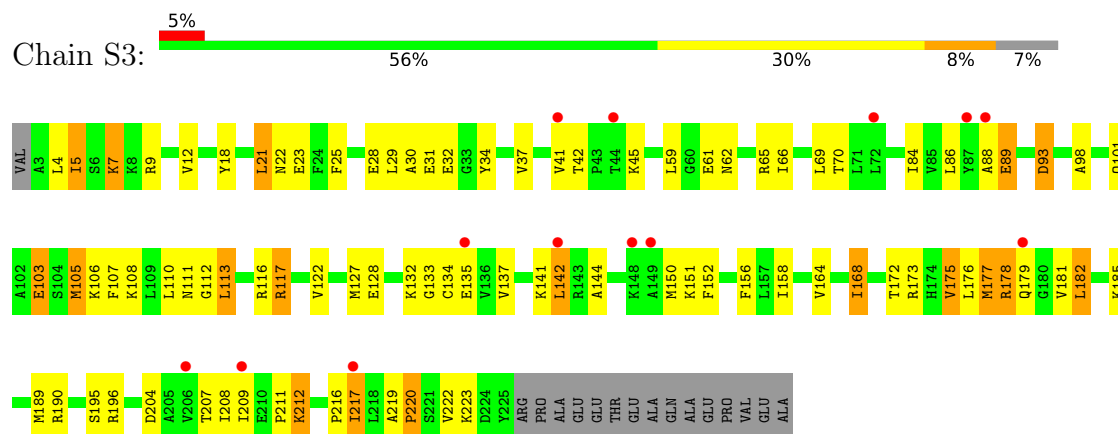
• Molecule 4: 40S ribosomal protein S2



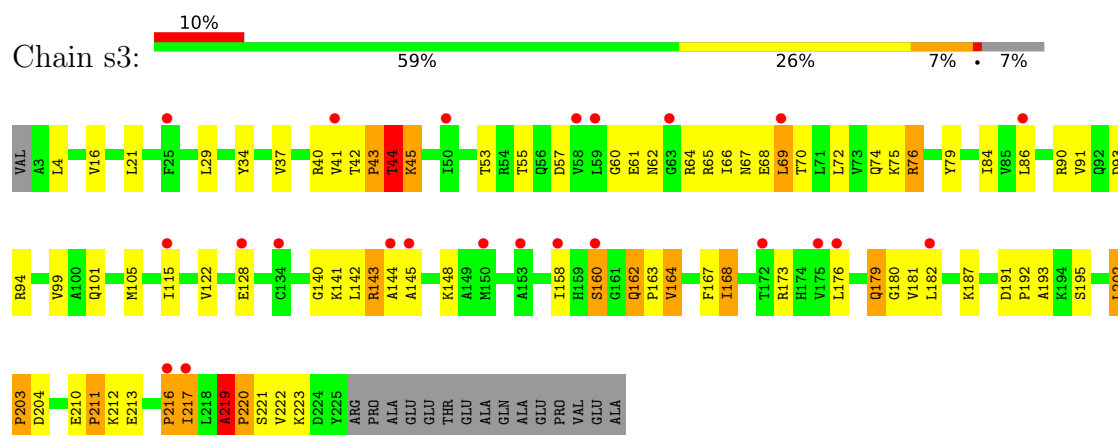
• Molecule 4: 40S ribosomal protein S2



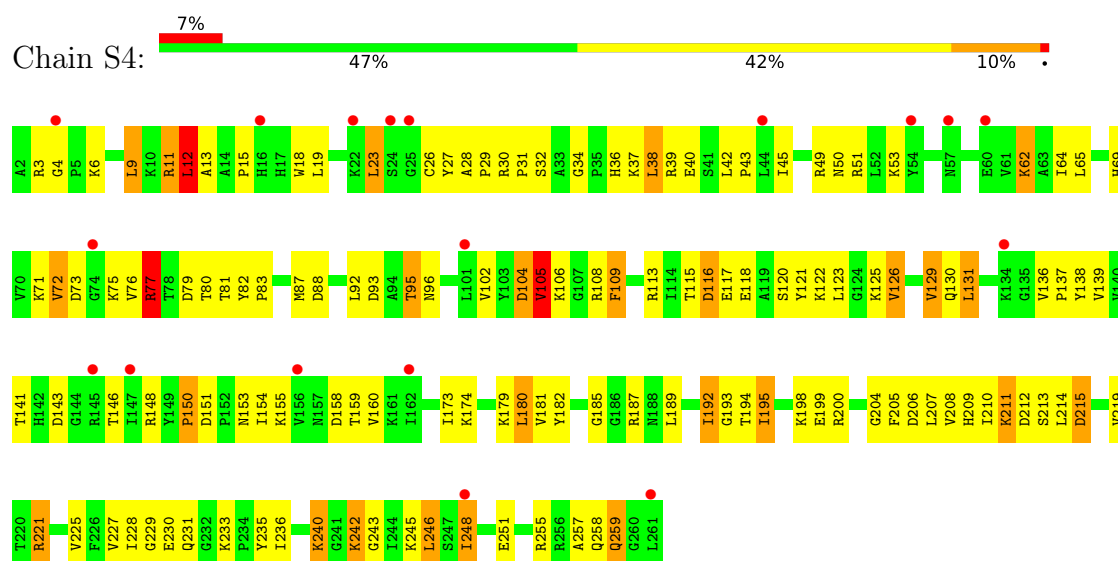
- Molecule 5: 40S ribosomal protein S3



- Molecule 5: 40S ribosomal protein S3

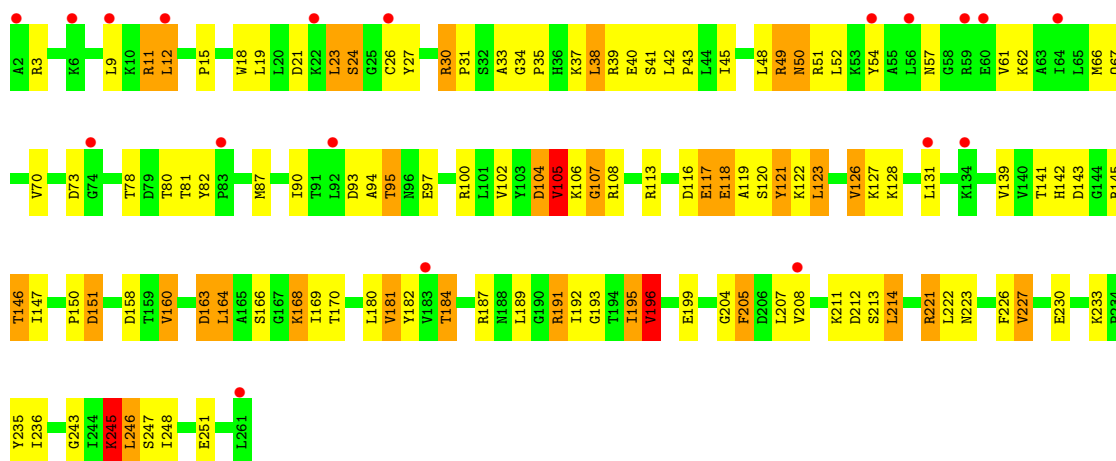


- Molecule 6: 40S ribosomal protein S4-A

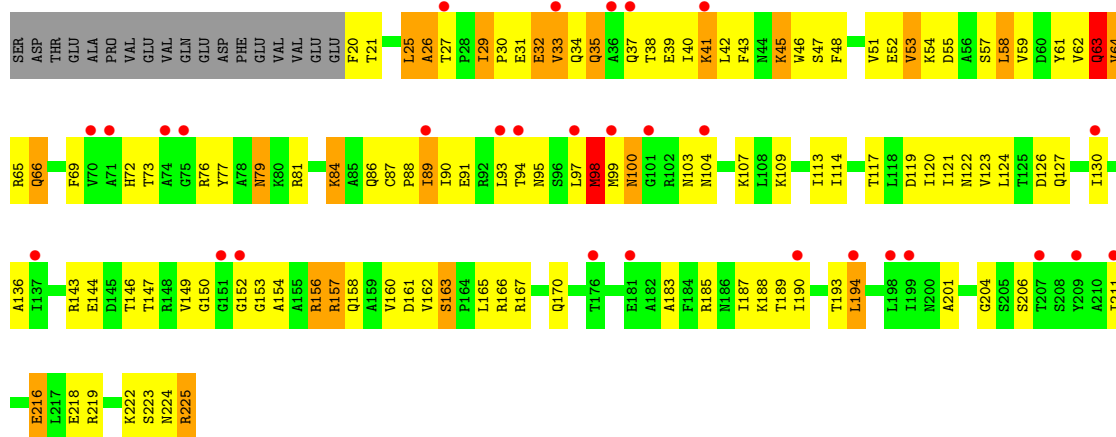


- Molecule 6: 40S ribosomal protein S4-A

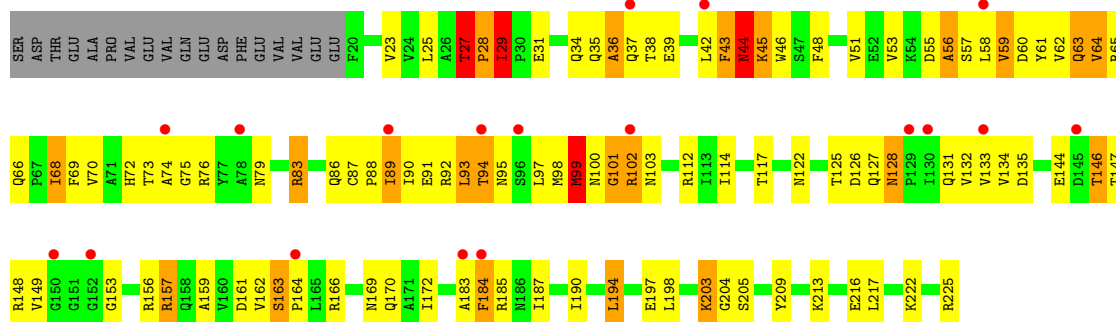




• Molecule 7: 40S ribosomal protein S5

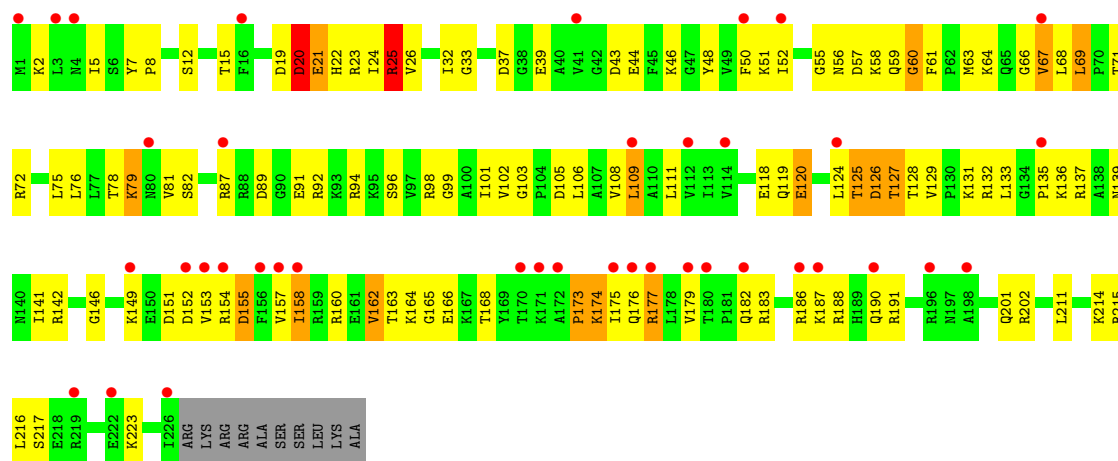


• Molecule 7: 40S ribosomal protein S5

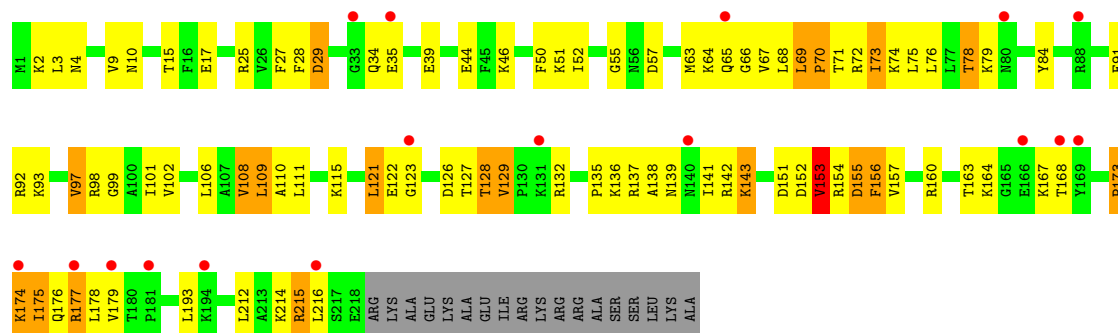


• Molecule 8: 40S ribosomal protein S6-A

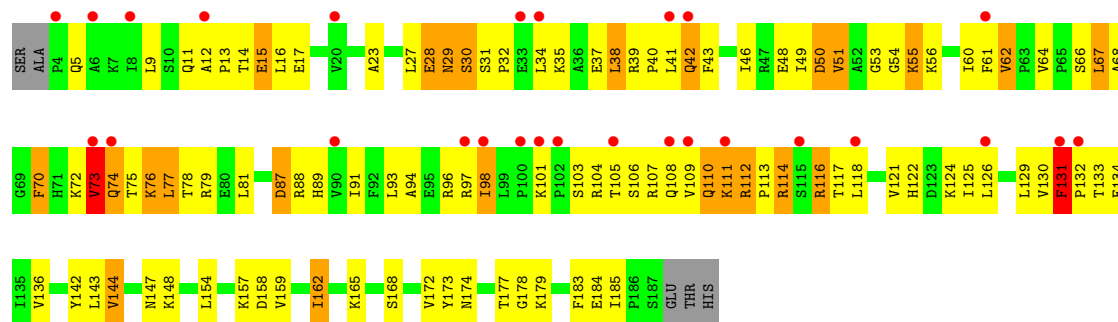




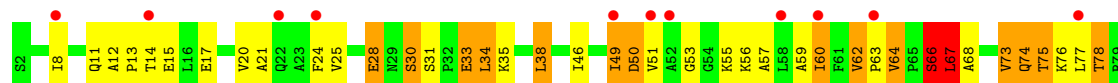
• Molecule 8: 40S ribosomal protein S6-A

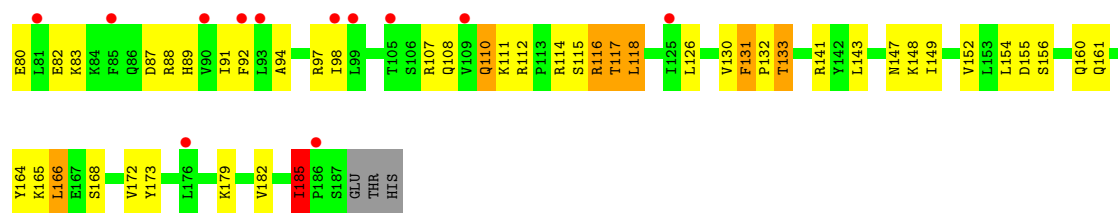


• Molecule 9: 40S ribosomal protein S7-A

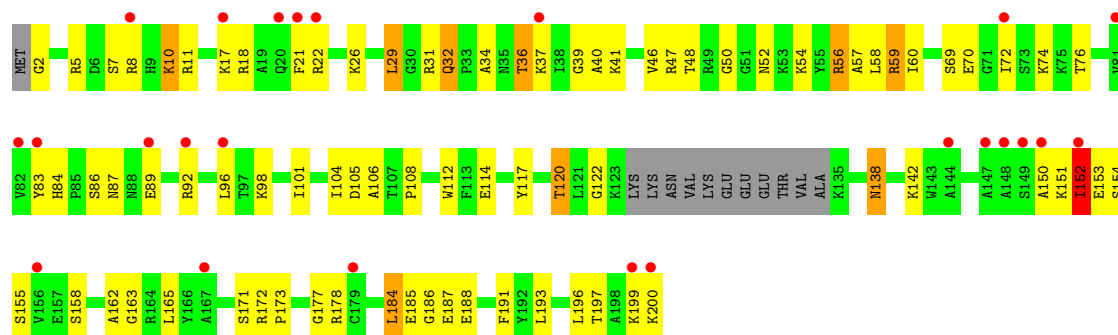


• Molecule 9: 40S ribosomal protein S7-A

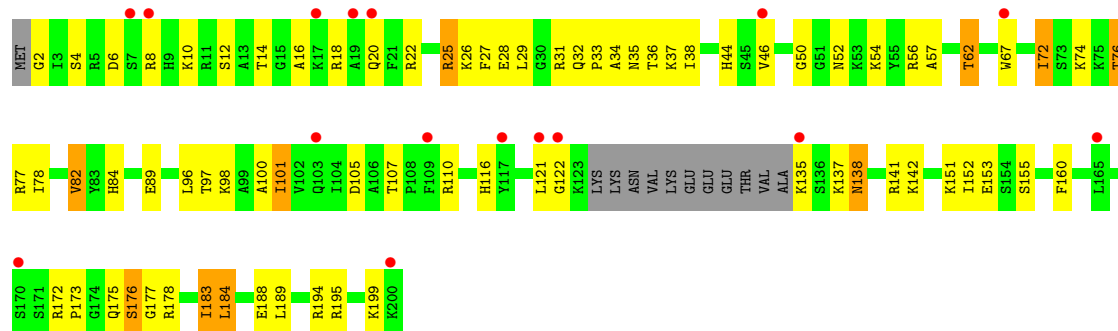




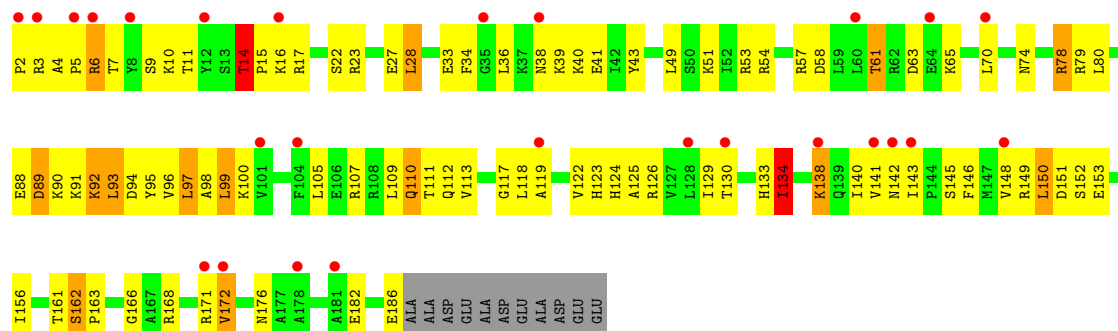
• Molecule 10: 40S ribosomal protein S8-A



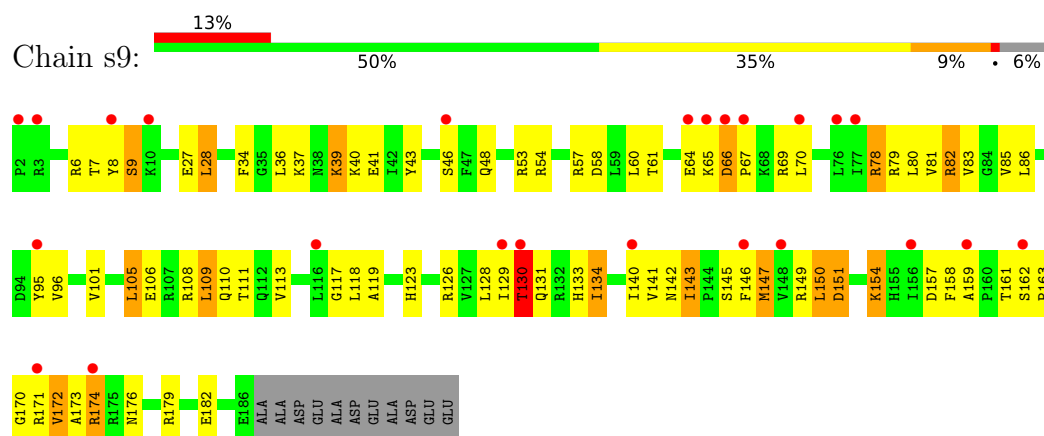
• Molecule 10: 40S ribosomal protein S8-A



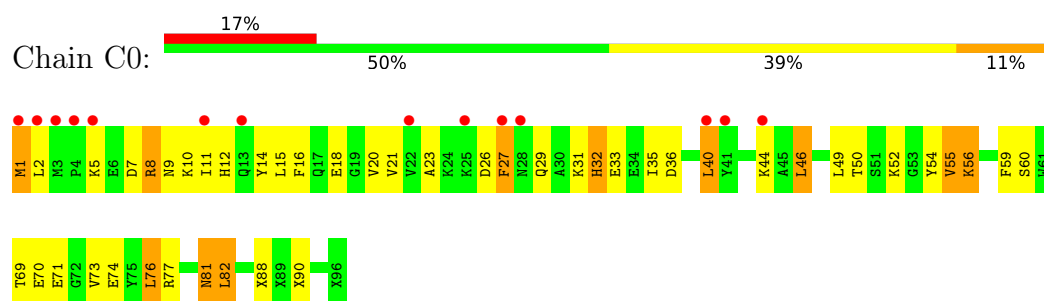
• Molecule 11: 40S ribosomal protein S9-A



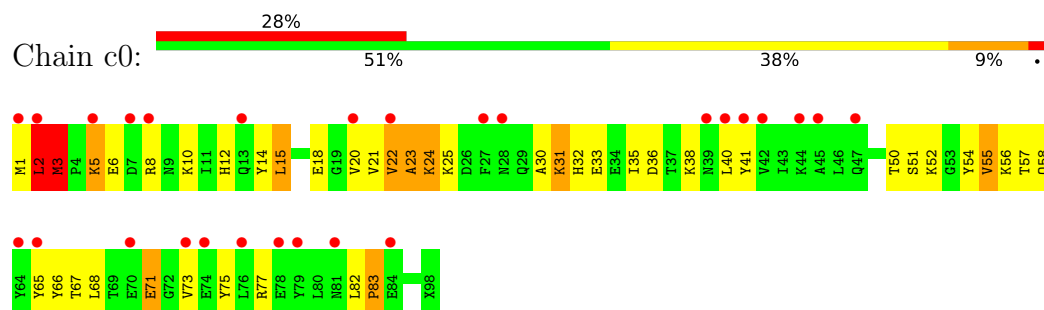
- Molecule 11: 40S ribosomal protein S9-A



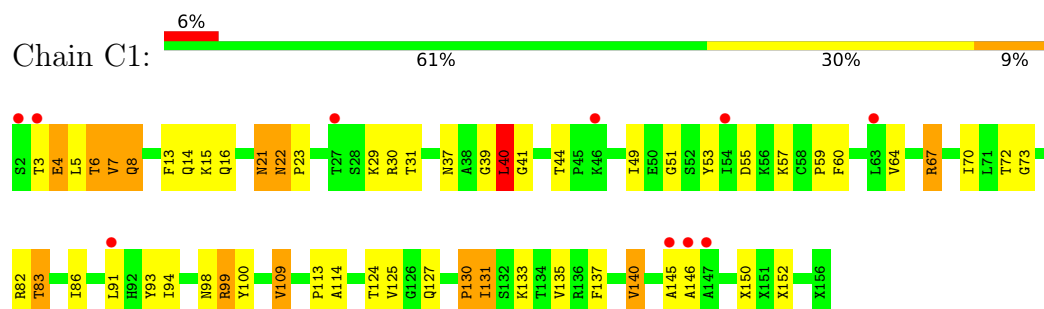
- Molecule 12: 40S ribosomal protein S10-A, 40S ribosomal protein S10-A, 40S ribosomal protein S10-A, 40S ribosomal protein S10-A



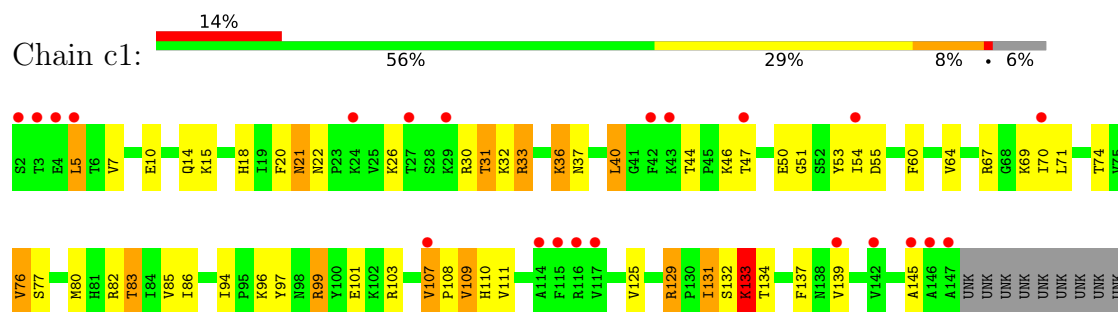
- Molecule 12: 40S ribosomal protein S10-A, 40S ribosomal protein S10-A, 40S ribosomal protein S10-A, 40S ribosomal protein S10-A



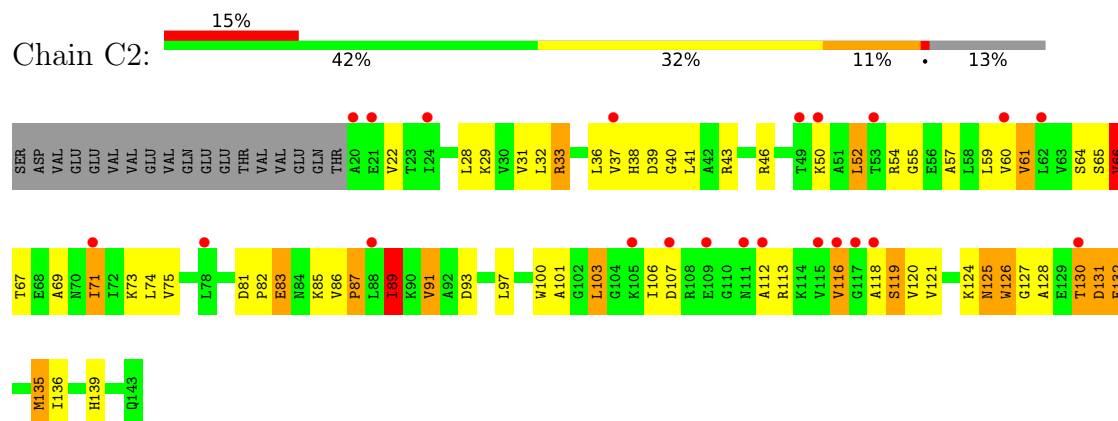
- Molecule 13: 40S ribosomal protein S11-A, 40S ribosomal protein S11-A, 40S ribosomal protein S11-A, 40S ribosomal protein S11-A (uS17)



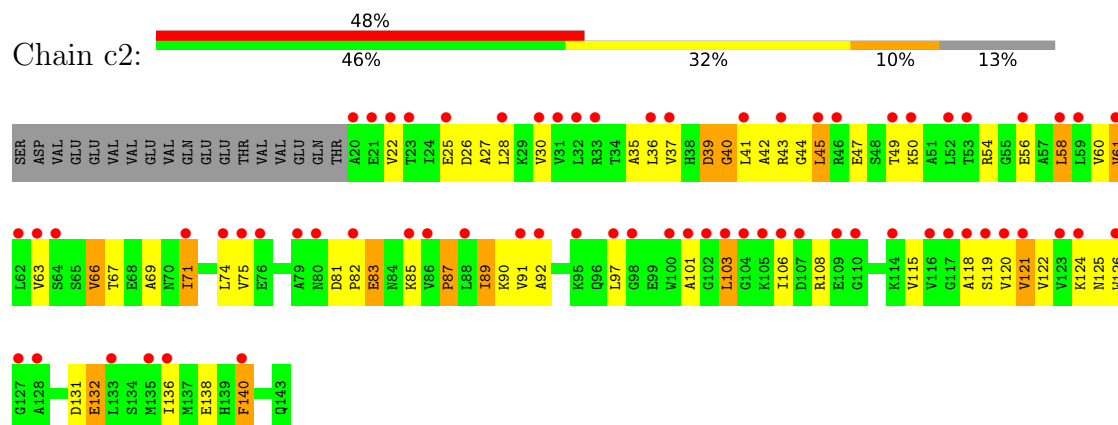
- Molecule 13: 40S ribosomal protein S11-A, 40S ribosomal protein S11-A, 40S ribosomal protein S11-A, 40S ribosomal protein S11-A, 40S ribosomal protein S11-A (uS17)



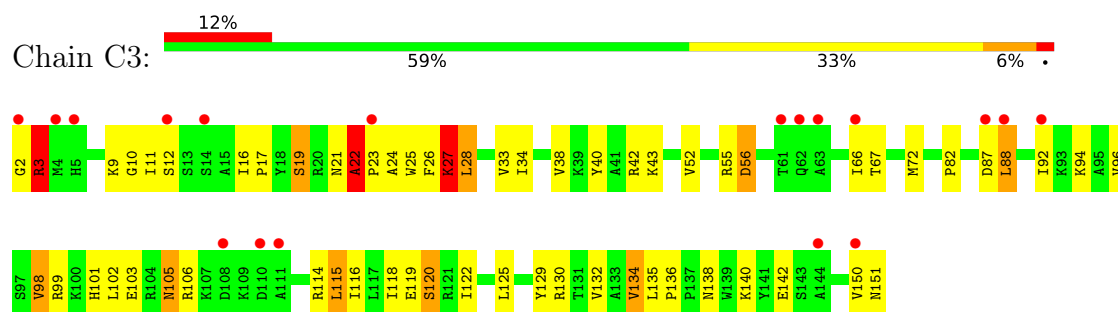
- Molecule 14: 40S ribosomal protein S12



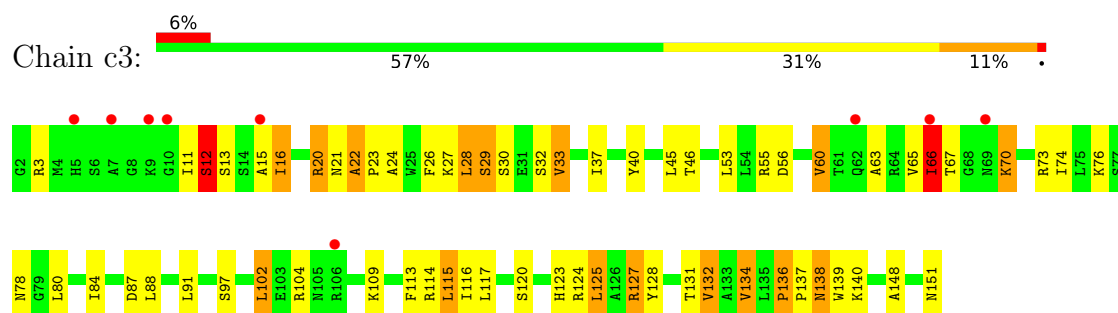
- Molecule 14: 40S ribosomal protein S12



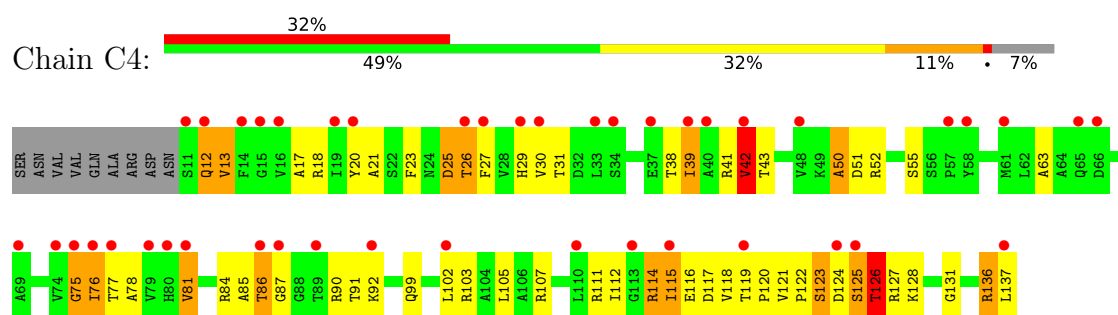
- Molecule 15: 40S ribosomal protein S13



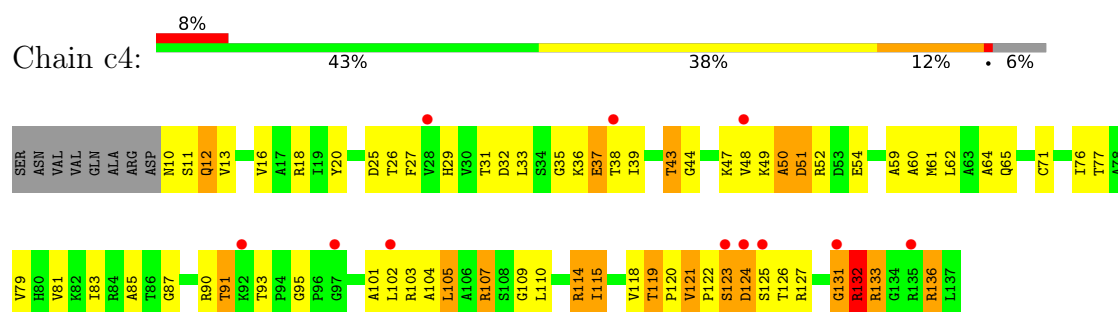
- Molecule 15: 40S ribosomal protein S13



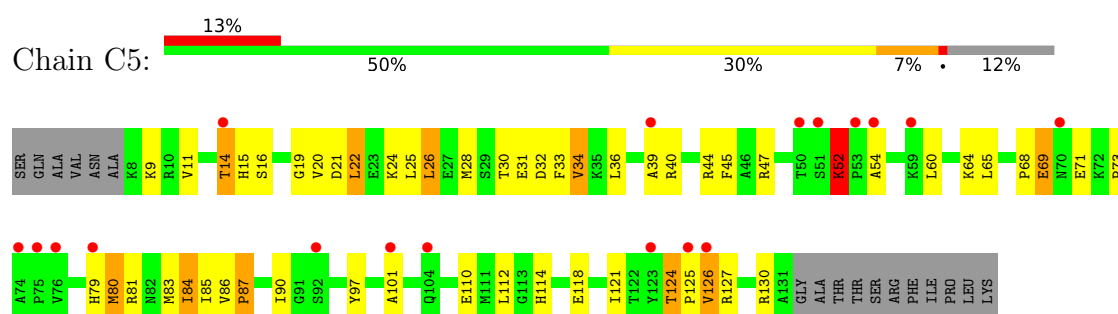
- Molecule 16: 40S ribosomal protein S14-A



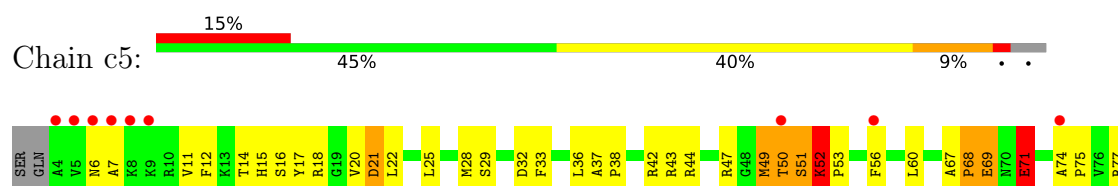
- Molecule 16: 40S ribosomal protein S14-A

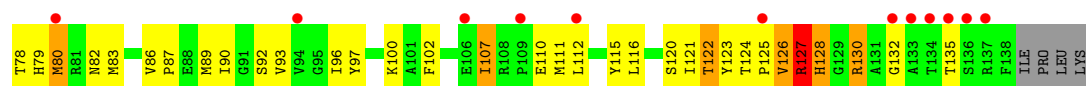


- Molecule 17: 40S ribosomal protein S15

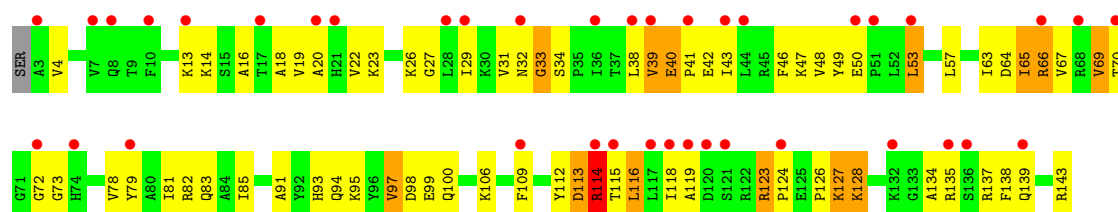


- Molecule 17: 40S ribosomal protein S15

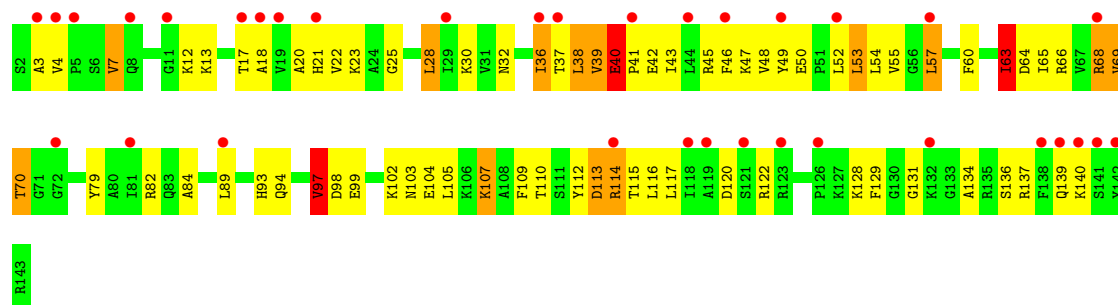




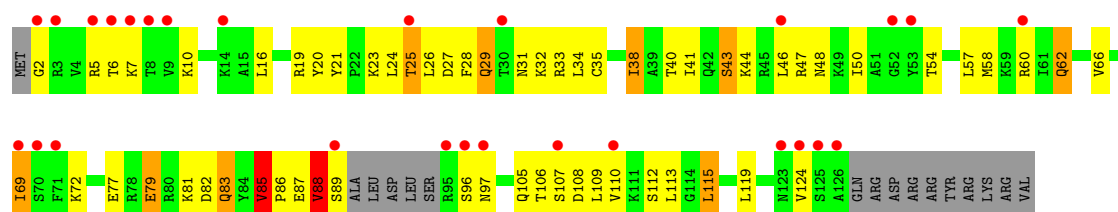
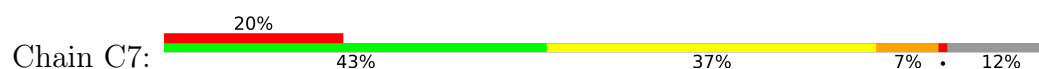
• Molecule 18: 40S ribosomal protein S16-A



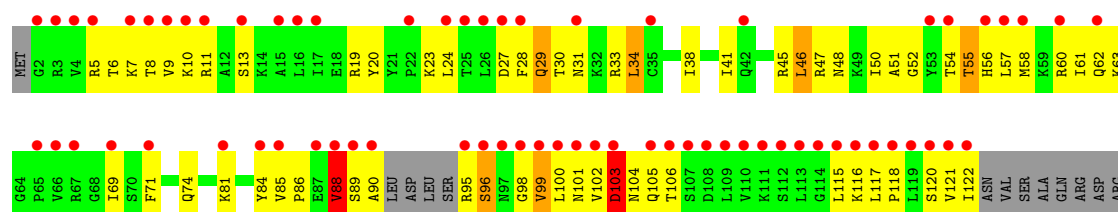
• Molecule 18: 40S ribosomal protein S16-A



• Molecule 19: 40S ribosomal protein S17-A

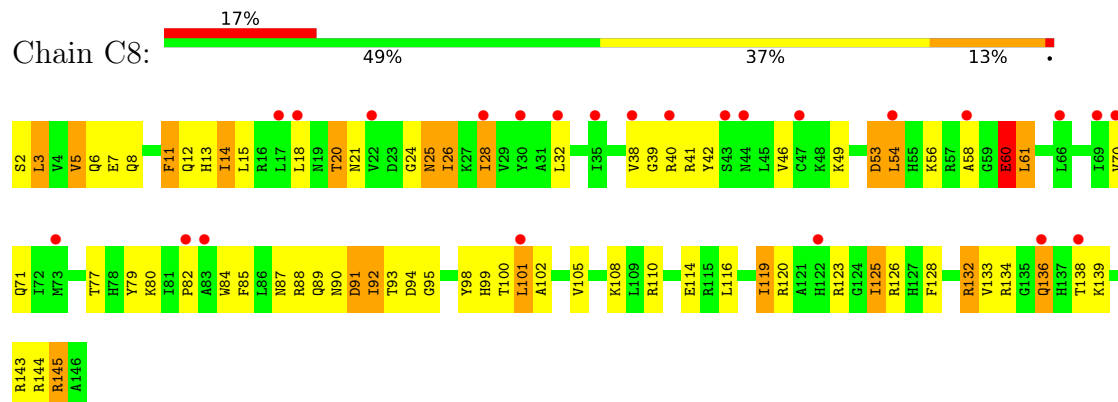


• Molecule 19: 40S ribosomal protein S17-A

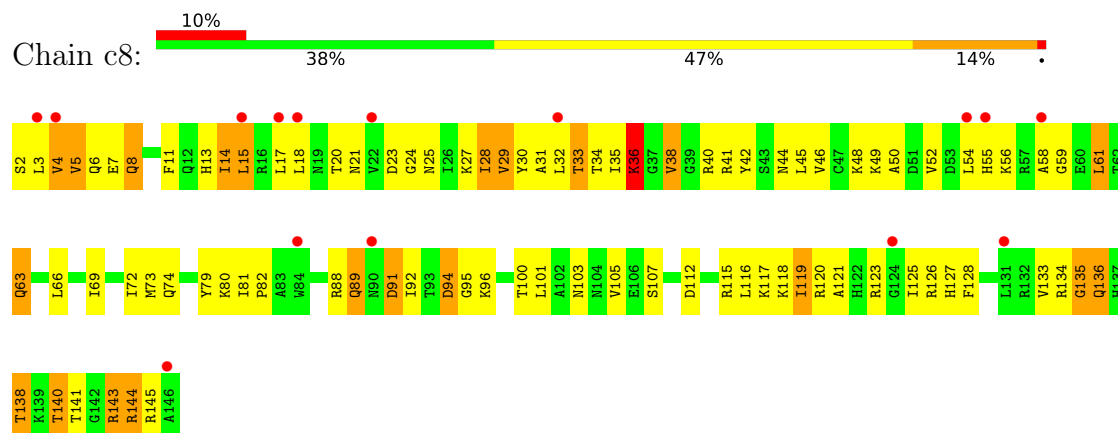


ARG
TYR
ARG
LYS
ARG
VAL

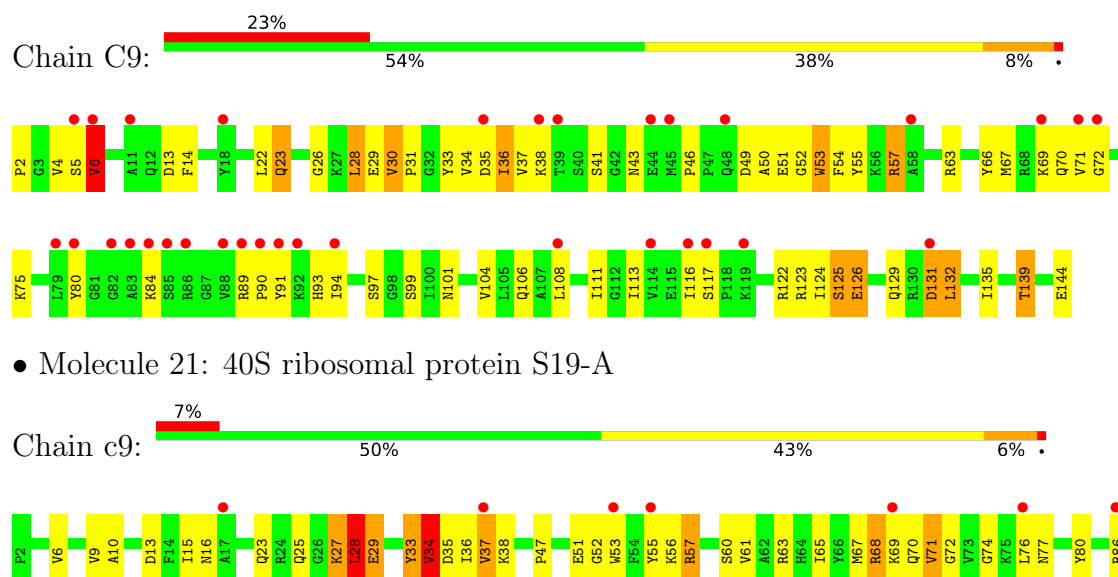
• Molecule 20: 40S ribosomal protein S18-A



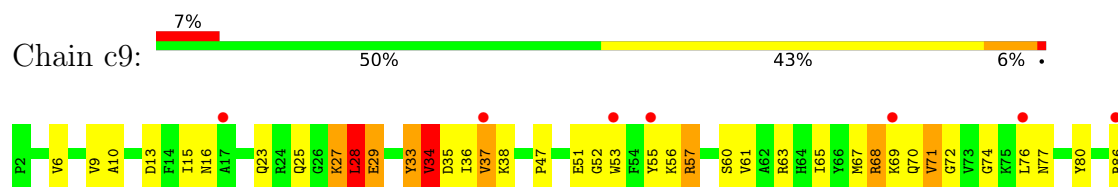
• Molecule 20: 40S ribosomal protein S18-A



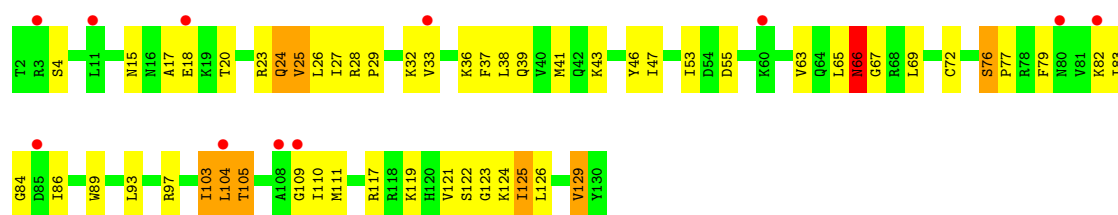
• Molecule 21: 40S ribosomal protein S19-A



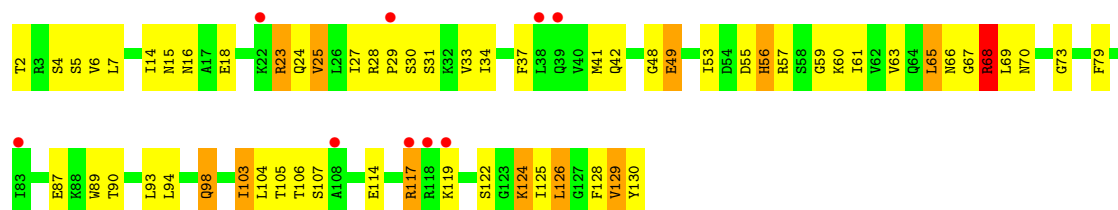
• Molecule 21: 40S ribosomal protein S19-A



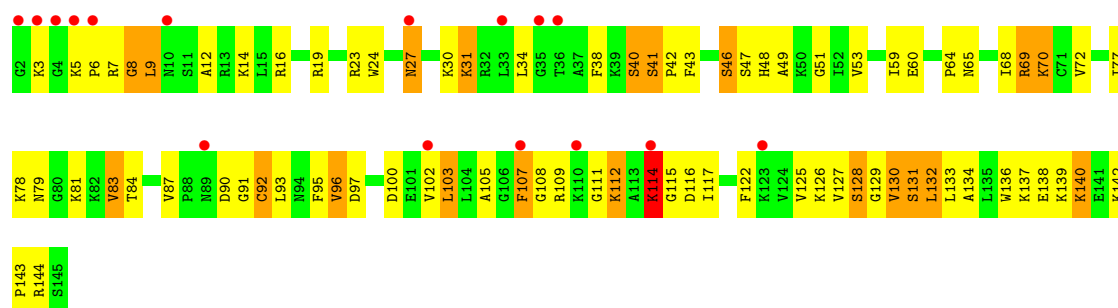
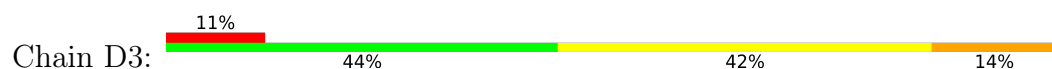




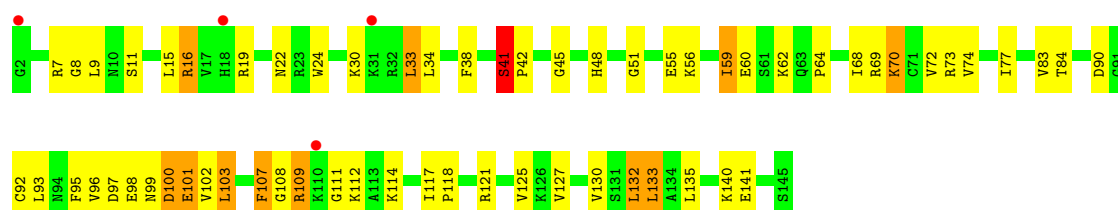
• Molecule 24: 40S ribosomal protein S22-A



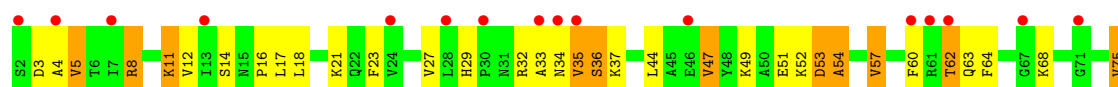
• Molecule 25: 40S ribosomal protein S23-A



• Molecule 25: 40S ribosomal protein S23-A

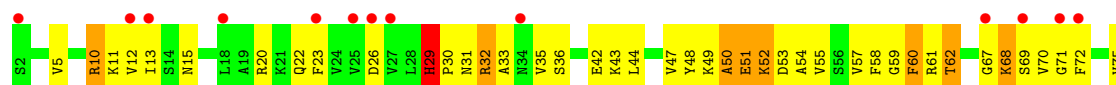


• Molecule 26: 40S ribosomal protein S24-A

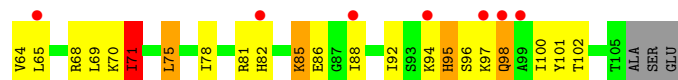
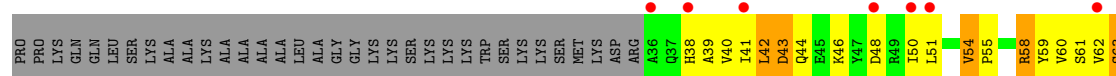
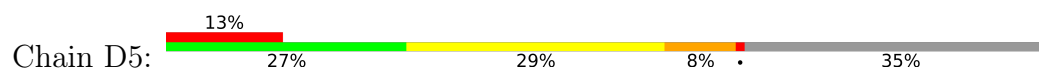




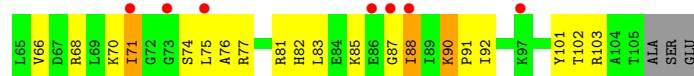
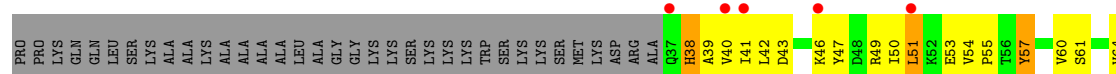
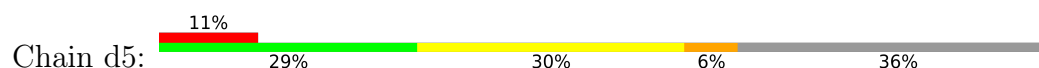
• Molecule 26: 40S ribosomal protein S24-A



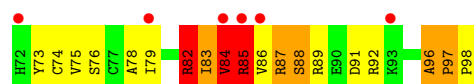
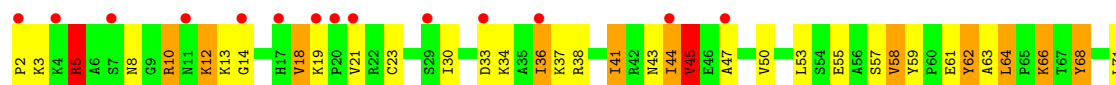
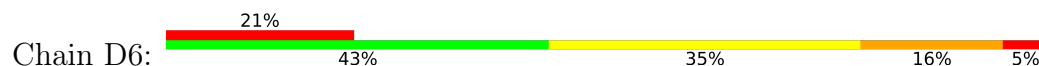
• Molecule 27: 40S ribosomal protein S25-A



• Molecule 27: 40S ribosomal protein S25-A

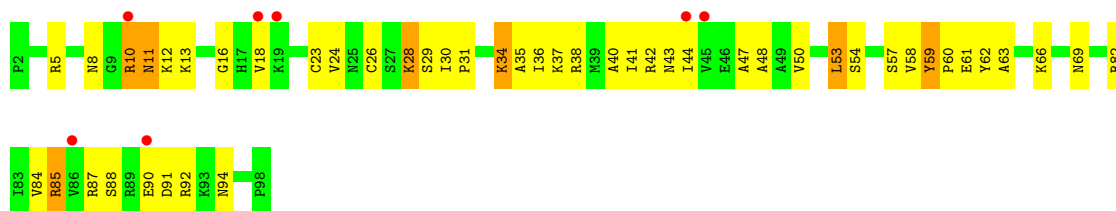


• Molecule 28: 40S ribosomal protein S26-B



• Molecule 28: 40S ribosomal protein S26-B





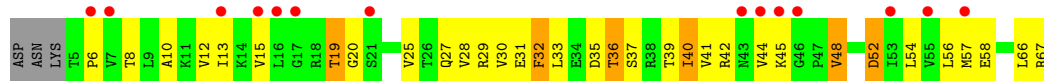
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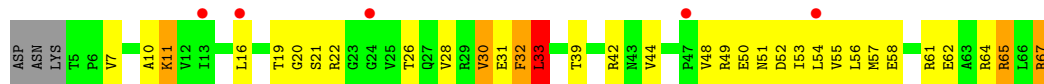
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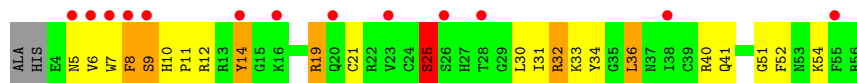
• Molecule 30: 40S ribosomal protein S28-A



• Molecule 30: 40S ribosomal protein S28-A

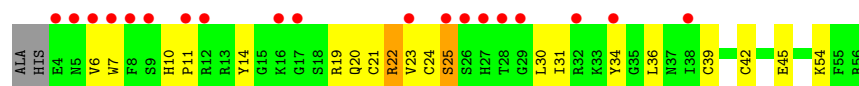


• Molecule 31: 40S ribosomal protein S29-A

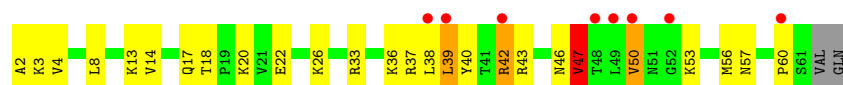


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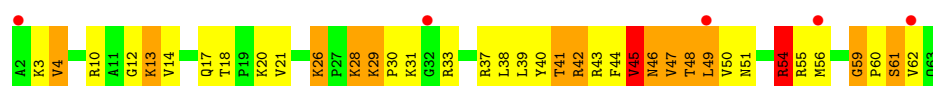




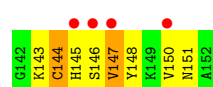
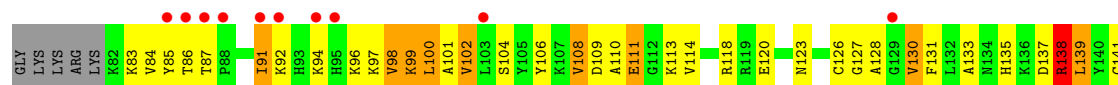
- Molecule 32: 40S ribosomal protein S30-A



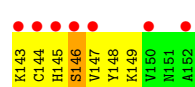
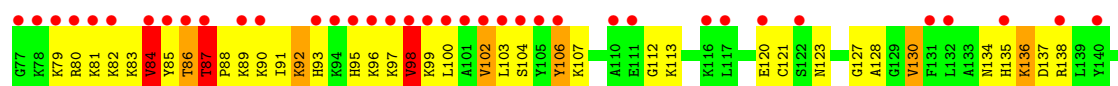
- Molecule 32: 40S ribosomal protein S30-A



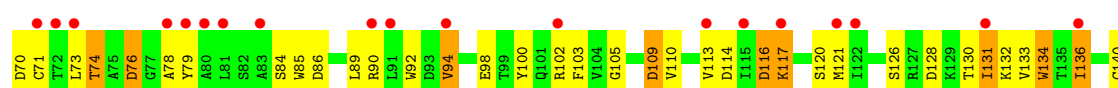
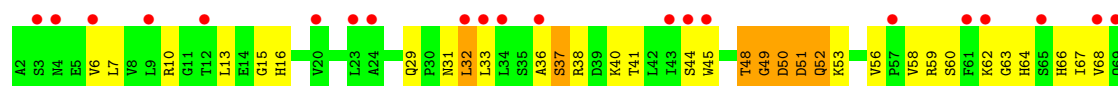
- Molecule 33: Ubiquitin-40S ribosomal protein S31

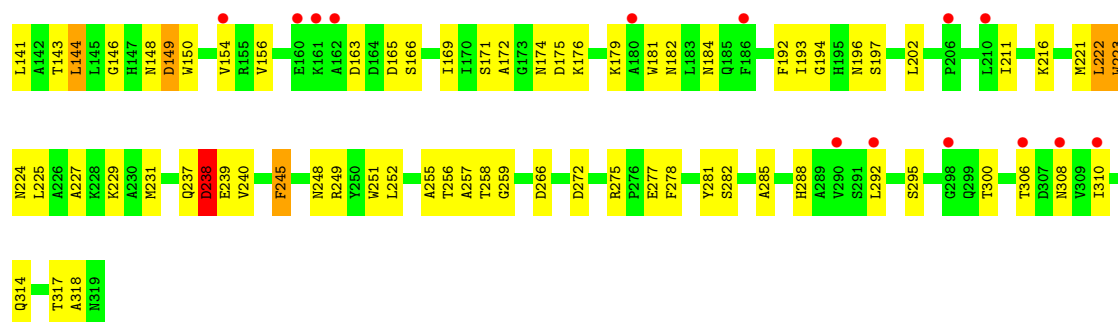


- Molecule 33: Ubiquitin-40S ribosomal protein S31

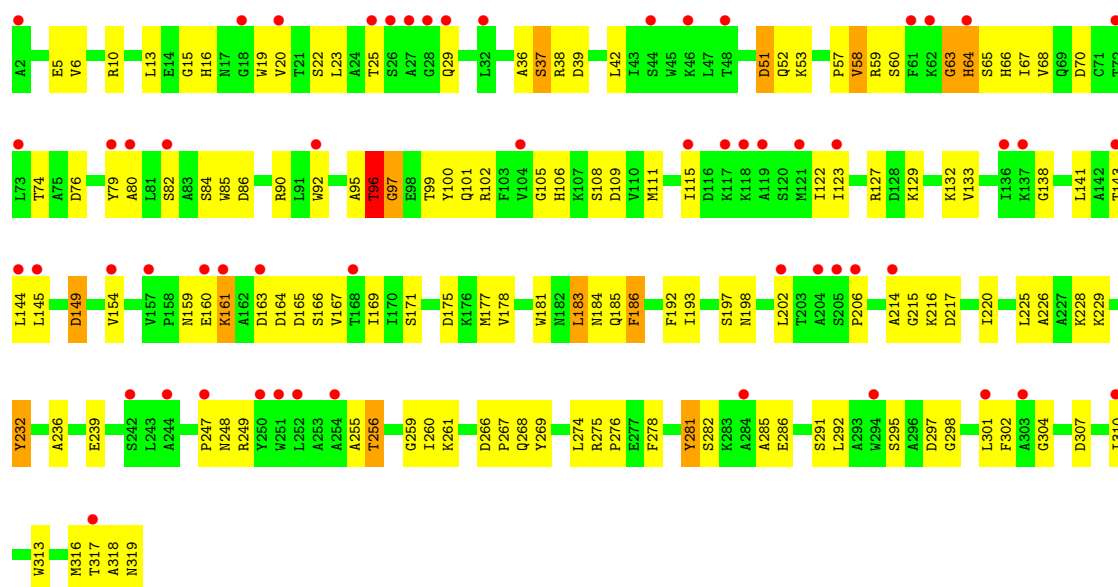


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

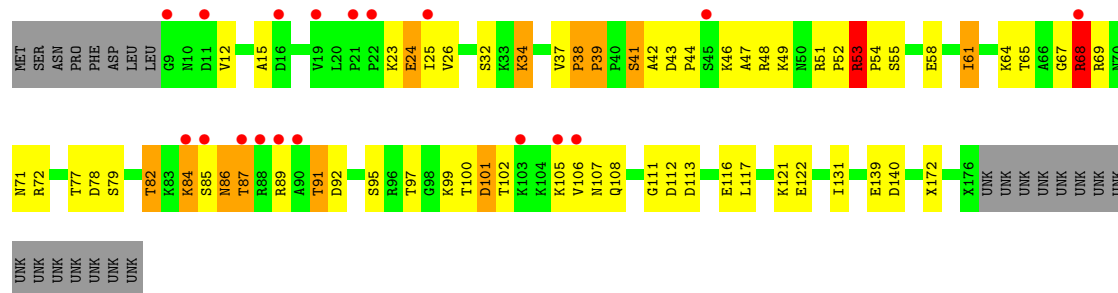




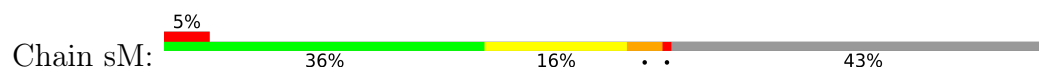
• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

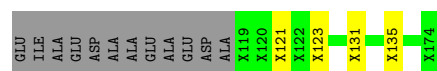
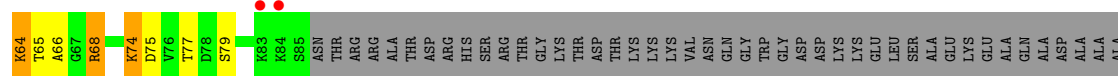
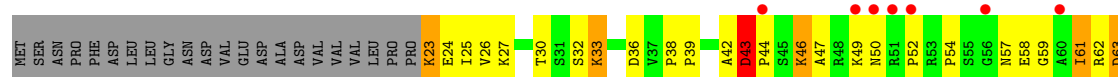


• Molecule 35: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1

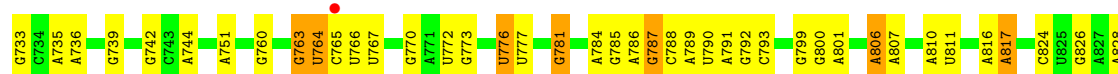
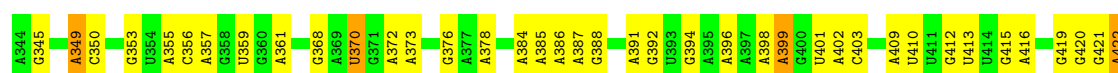
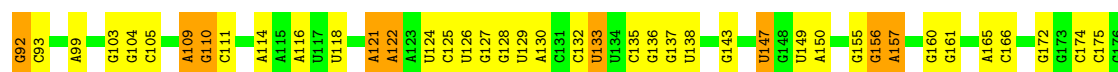


• Molecule 35: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1,Suppressor protein STM1



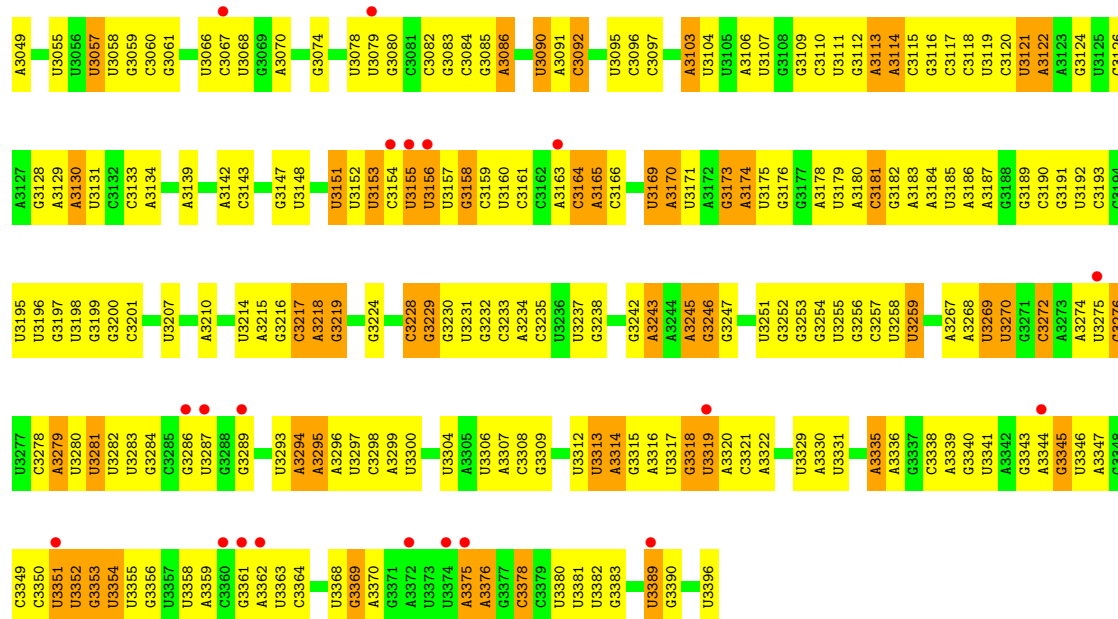


• Molecule 36: 25S ribosomal RNA

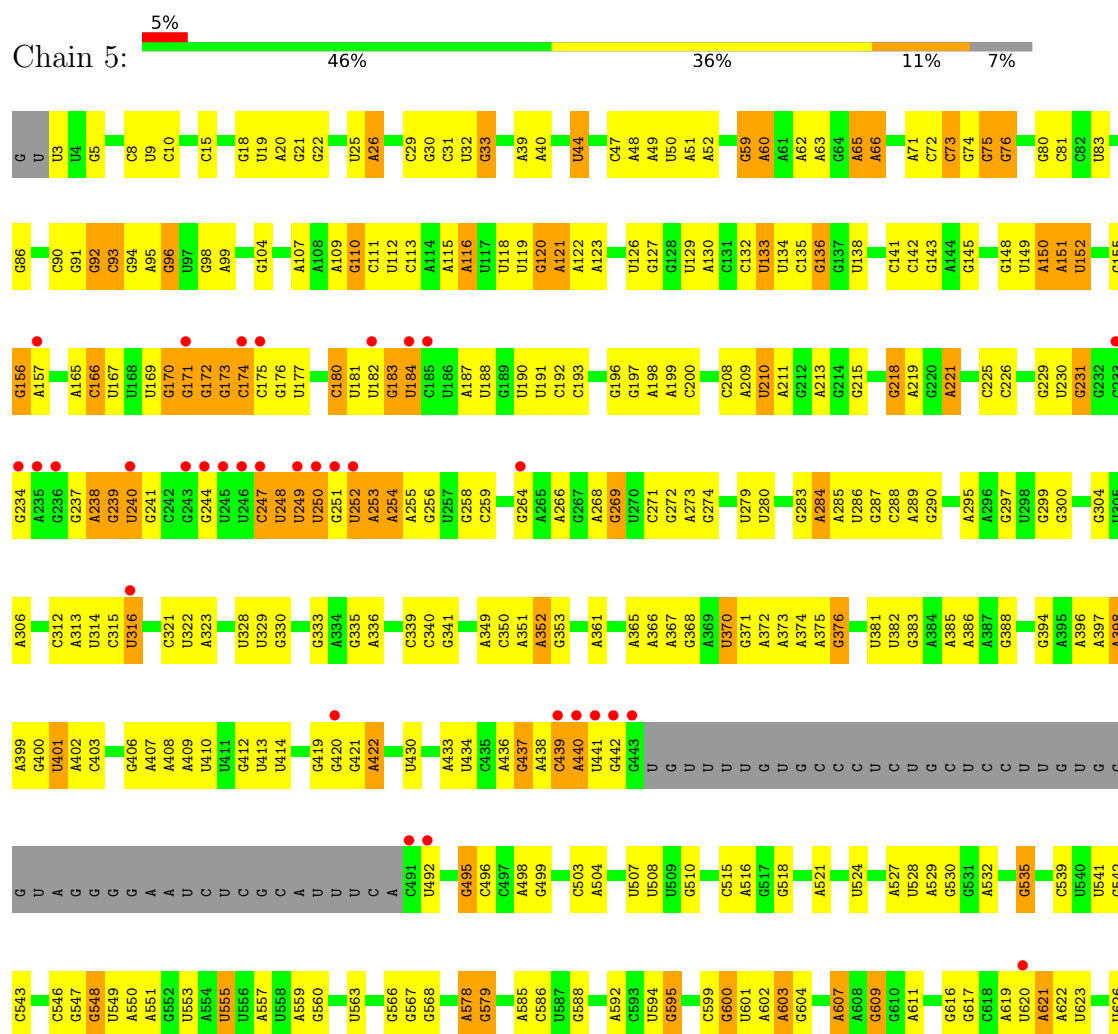


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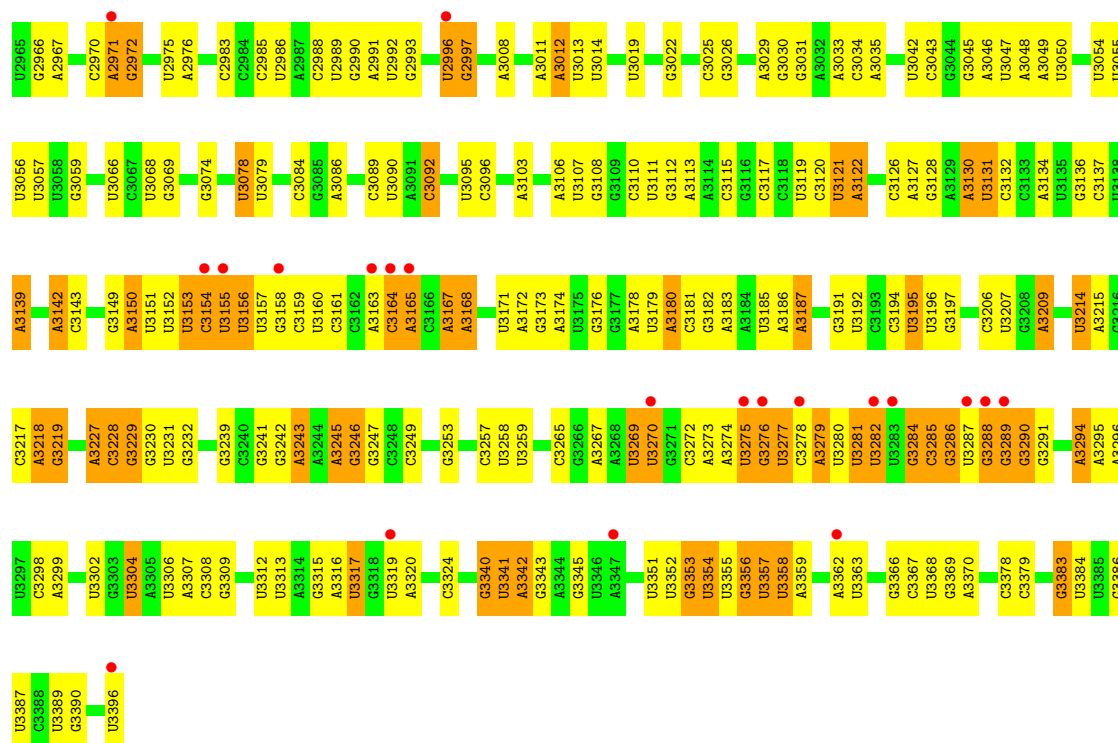


● Molecule 36: 25S ribosomal RNA

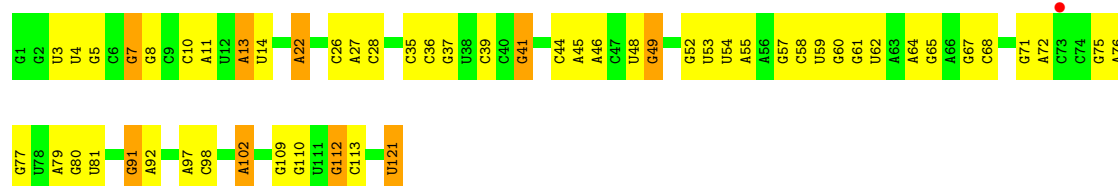


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C1791	G1542	G1542	A1542	A1446	U1353	U1267	G1194	U1100	A921	U921	G742	U673
C1792	G1543	G1543	A1543	G1447	A1354	G1268	A1196	G1101	U922	C923	C743	U673
C1793	G1547	G1547	A1547	G1450	A1355	G1272	C1196	A1102	G1012	A830	A744	A677
U1716	C1548	U1611	G1547	U1463	U1356	U1276	A1197	G1103	G1012	U835	U748	G678
U1717	C1549	A1612	C1548	U1463	U1357	U1277	A1200	U1014	U1015	A836	C749	U679
A1797	U1554	A1613	U1554	G1464	C1358	G1280	C1201	U1015	U1016	A837	G750	G680
G1798	C1550	C1614	C1550	U1455	C1359	G1281	A1202	C1017	C1017	G838	U751	U681
U1720	G1551	U1615	G1551	U1462	U1360	G1282	A1205	U1018	G1018	A846	C758	U682
U1721	U1552	G1617	C1552	U1463	U1361	G1283	A1209	G1019	C938	U847	U759	G684
U1722	U1553	U1620	U1553	U1464	G1370	C1284	G1209	G1020	U942	A848	G760	G685
A1723	U1554	C1628	U1554	U1465	A1373	G1285	G1213	G1021	U943	C849	G763	G686
U1724	C1555	C1629	U1555	G1466	G1374	U1293	A1212	U1024	A936	U850	U764	A691
C1725	C1556	U1630	C1556	U1466	U1375	A1294	U1213	A1025	G937	C851	C765	A692
G1726	A1557	C1631	A1557	G1466	G1376	G1295	U1214	A1026	U946	U852	U766	U682
G1727	U1558	A1632	A1558	U1470	C1376	U1301	U1215	A1027	G953	U853	U767	C695
U1728	G1559	U1632	U1559	U1471	U1377	A1302	U1216	U1028	U954	C854	C768	C695
A1729	C1560	C1635	G1560	U1472	A1381	U1303	A1221	G1029	U955	G856	U769	U698
G1730	U1561	U1636	C1561	A1475	G1382	G1306	G1222	U1128	U956	A857	G770	A699
G1736	C1562	C1639	C1562	U1479	U1383	G1307	A1223	A1129	C957	U858	G773	C700
U1739	U1563	A1643	U1563	U1480	U1384	A1308	G1229	A1130	C958	G859	U776	G701
U1740	C1564	C1644	C1564	A1482	U1385	U1309	G1230	G1131	C959	C860	U777	C702
A1741	U1565	U1645	U1565	A1482	C1386	G1310	A1231	A1132	U960	C861	U778	U704
U1742	U1566	U1645	U1566	G1387	G1387	C1311	A1232	A1133	C961	U862	U779	U705
U1804	U1568	U1645	U1568	G1387	C1387	C1312	C1232	G1134	A1047	C863	U780	U706
C1805	U1569	U1645	U1569	G1387	C1387	C1312	C1232	G1134	A1047	C863	U781	U707
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G1807	U1571	U1645	U1571	G1387	C1387	C1312	C1232	G1134	A1047	C863	U783	U709
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A1809	U1573	U1645	U1573	G1387	C1387	C1312	C1232	G1134	A1047	C863	U785	U711
G1810	U1574	U1645	U1574	G1387	C1387	C1312	C1232	G1134	A1047	C863	U786	U712
U1811	U1575	U1645	U1575	G1387	C1387	C1312	C1232	G1134	A1047	C863	U787	U713
G1812	U1576	U1645	U1576	G1387	C1387	C1312	C1232	G1134	A1047	C863	U788	U714
A1813	U1577	U1645	U1577	G1387	C1387	C1312	C1232	G1134	A1047	C863	U789	U715
U1814	U1578	U1645	U1578	G1387	C1387	C1312	C1232	G1134	A1047	C863	U790	U716
A1815	U1579	U1645	U1579	G1387	C1387	C1312	C1232	G1134	A1047	C863	U791	U717
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G1817	U1581	U1645	U1581	G1387	C1387	C1312	C1232	G1134	A1047	C863	U793	U719
U1818	U1582	U1645	U1582	G1387	C1387	C1312	C1232	G1134	A1047	C863	U794	U720
A1819	U1583	U1645	U1583	G1387	C1387	C1312	C1232	G1134	A1047	C863	U795	U721
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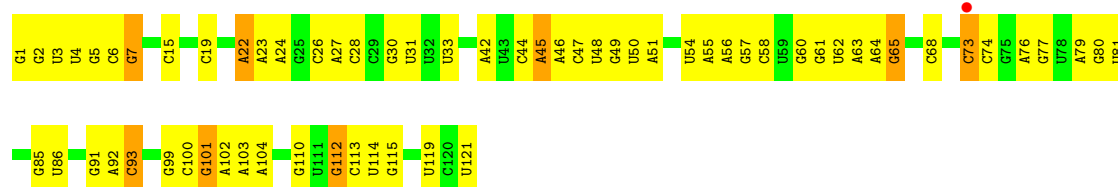




• Molecule 37: 5S ribosomal RNA



• Molecule 37: 5S ribosomal RNA

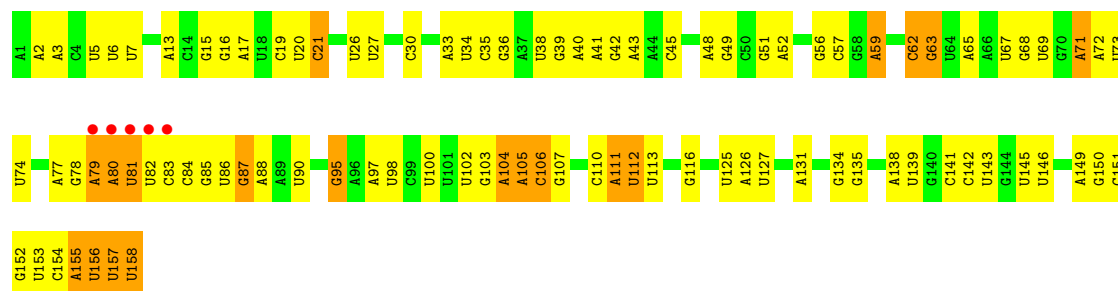


• Molecule 38: 5.8S ribosomal RNA

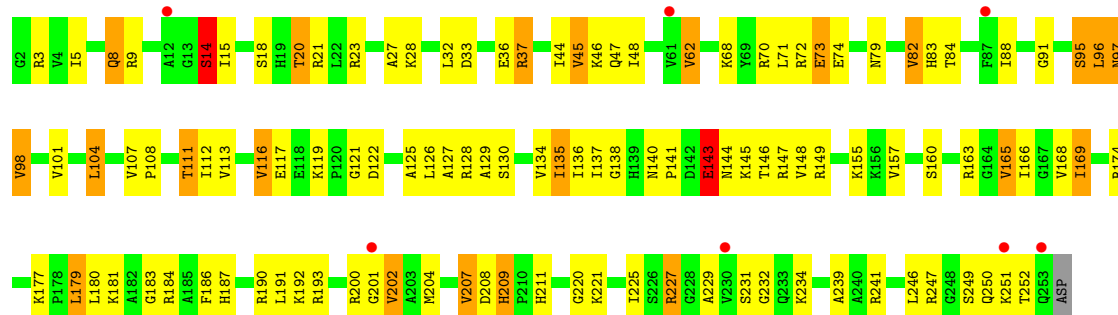




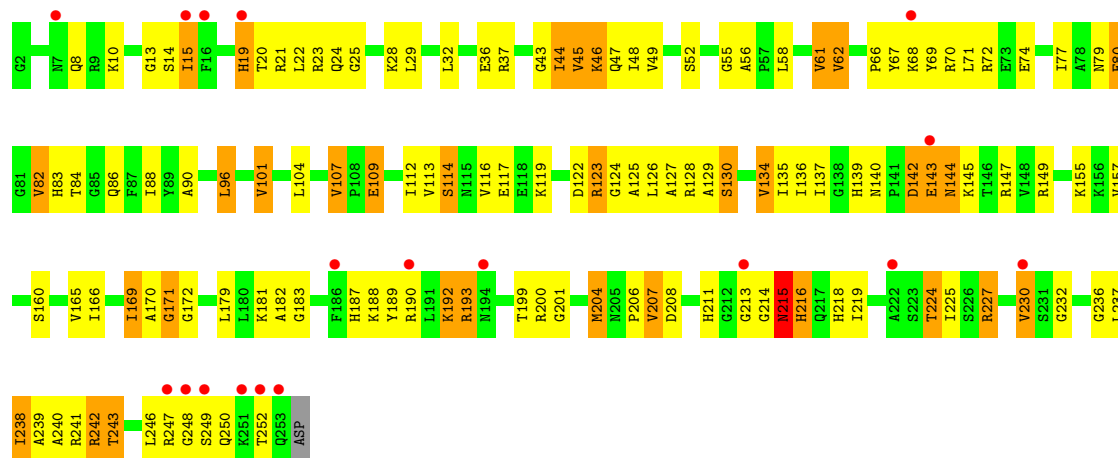
- Molecule 38: 5.8S ribosomal RNA



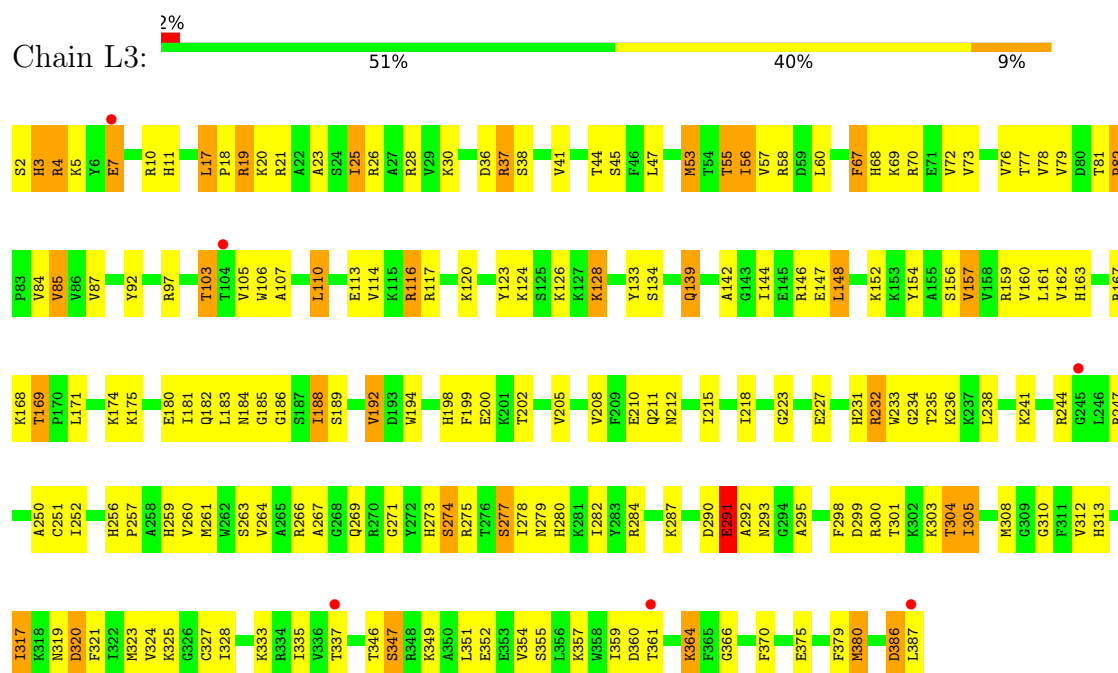
- Molecule 39: 60S ribosomal protein L2-A



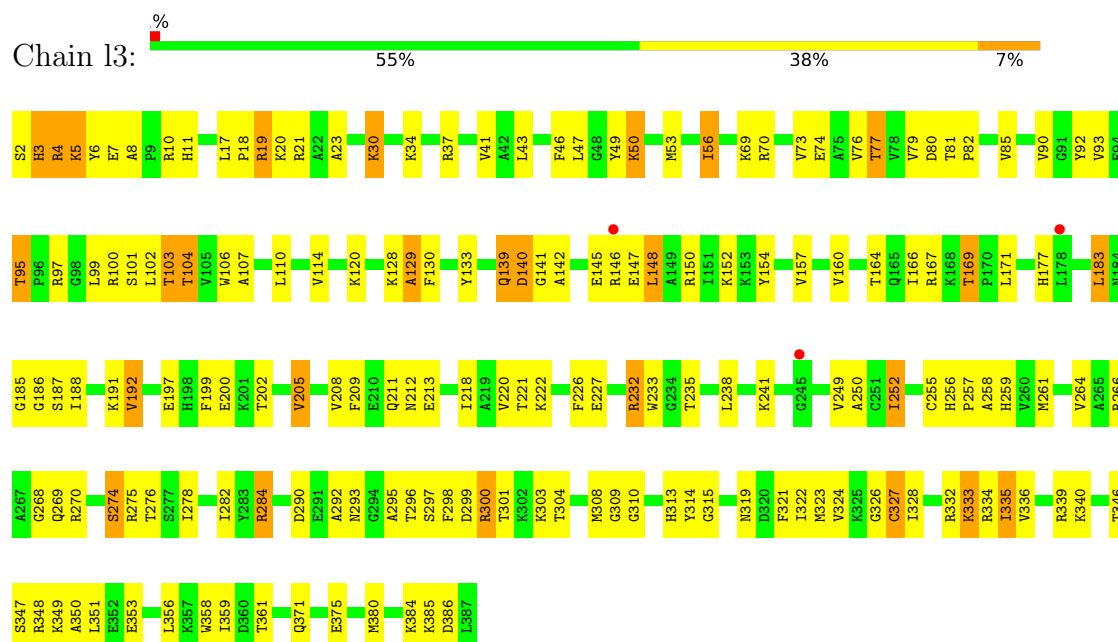
- Molecule 39: 60S ribosomal protein L2-A



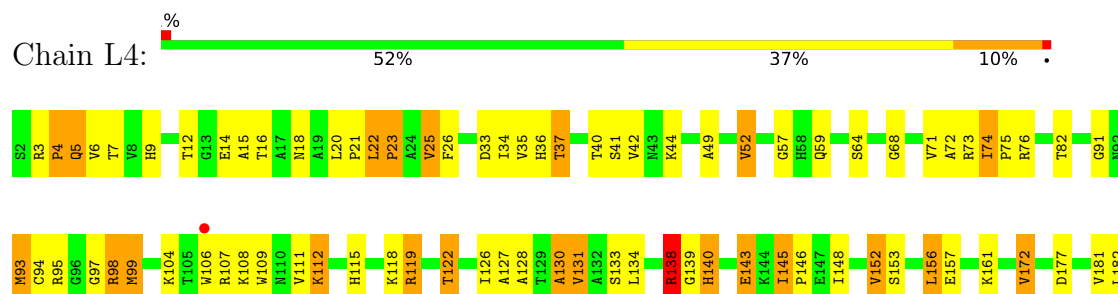
- Molecule 40: 60S ribosomal protein L3



• Molecule 40: 60S ribosomal protein L3

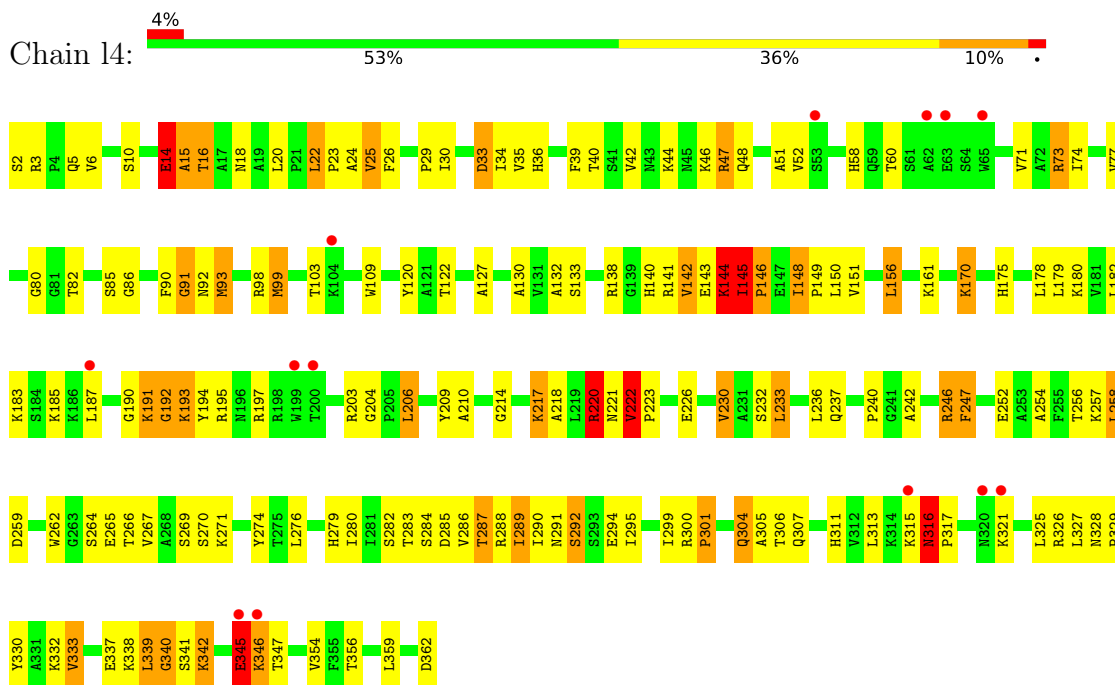


• Molecule 41: 60S ribosomal protein L4-A

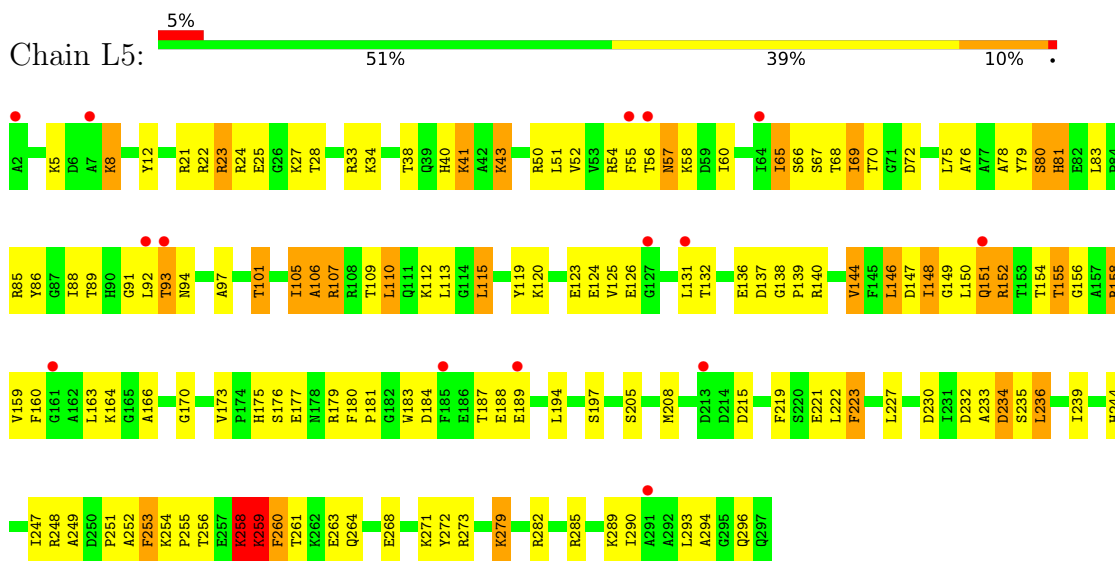




- Molecule 41: 60S ribosomal protein L4-A

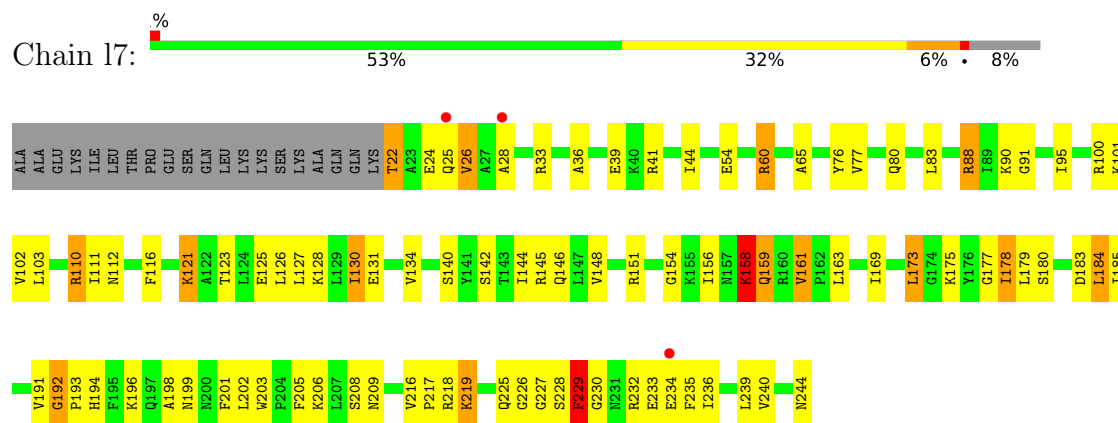


- Molecule 42: 60S ribosomal protein L5

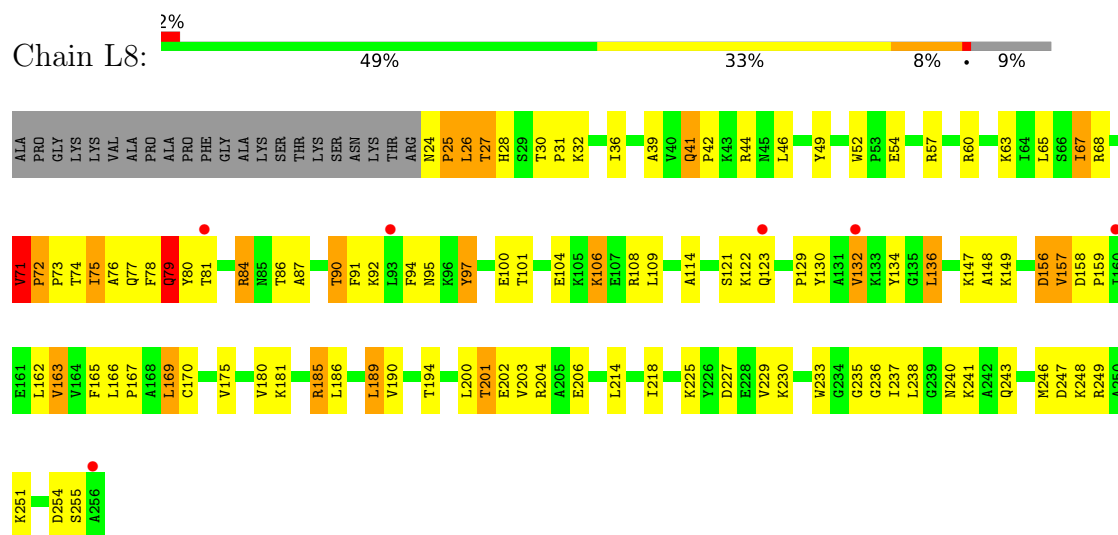


- Molecule 42: 60S ribosomal protein L5

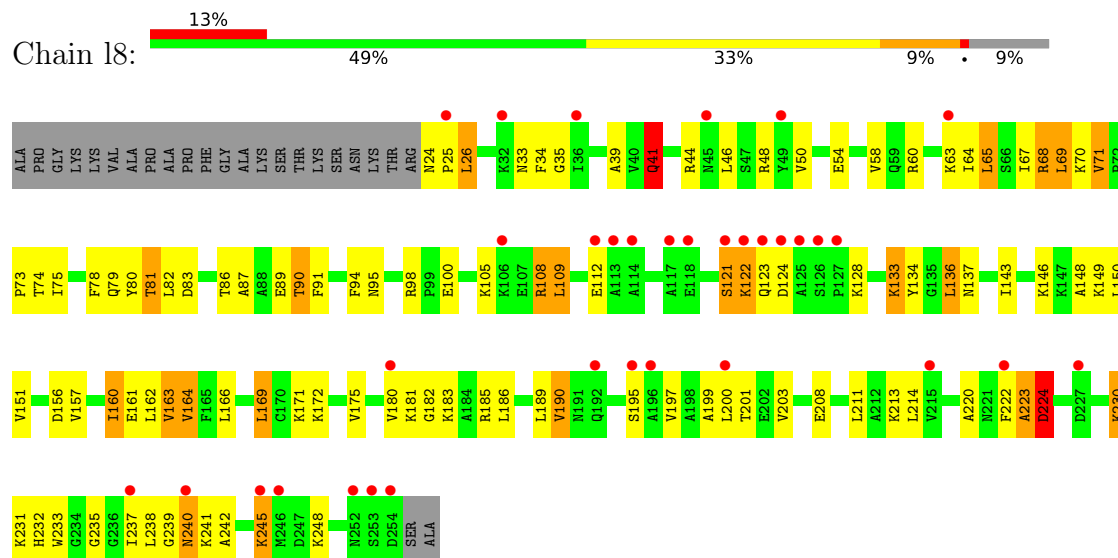
- Molecule 44: 60S ribosomal protein L7-A



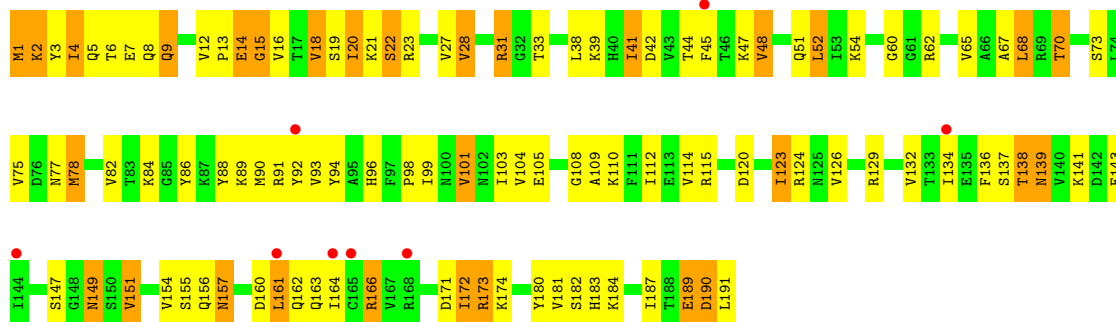
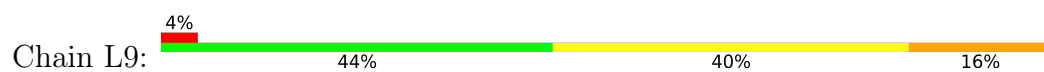
- Molecule 45: 60S ribosomal protein L8-A



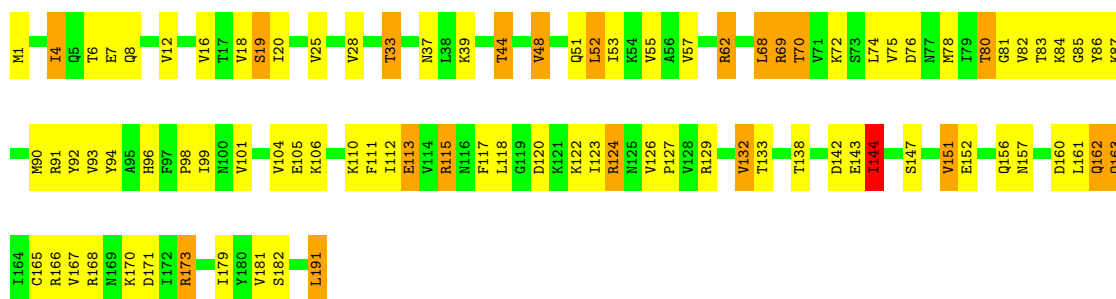
- Molecule 45: 60S ribosomal protein L8-A



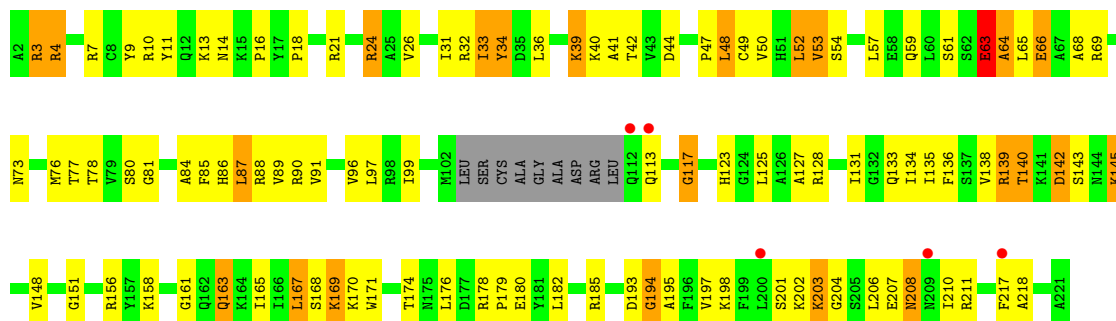
- Molecule 46: 60S ribosomal protein L9-A



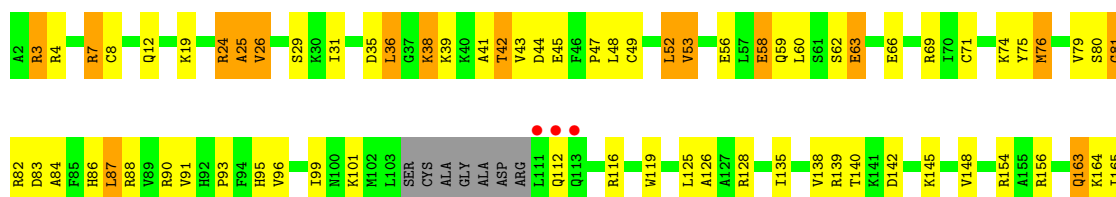
• Molecule 46: 60S ribosomal protein L9-A

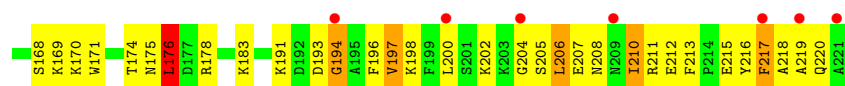


• Molecule 47: 60S ribosomal protein L10

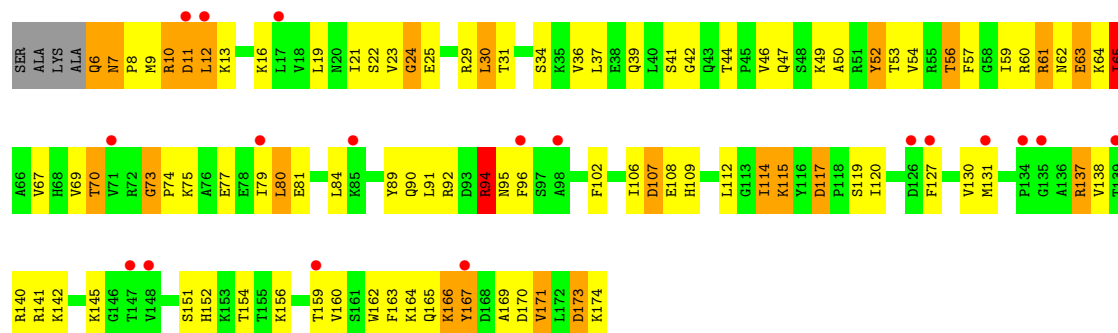
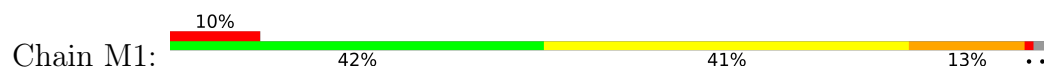


• Molecule 47: 60S ribosomal protein L10

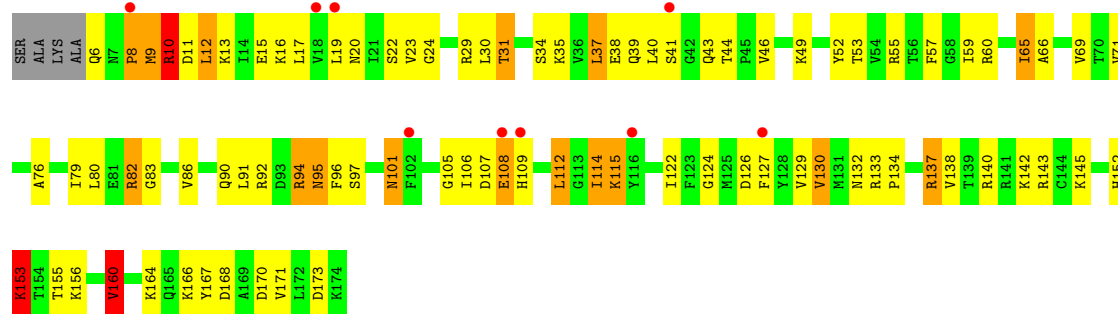




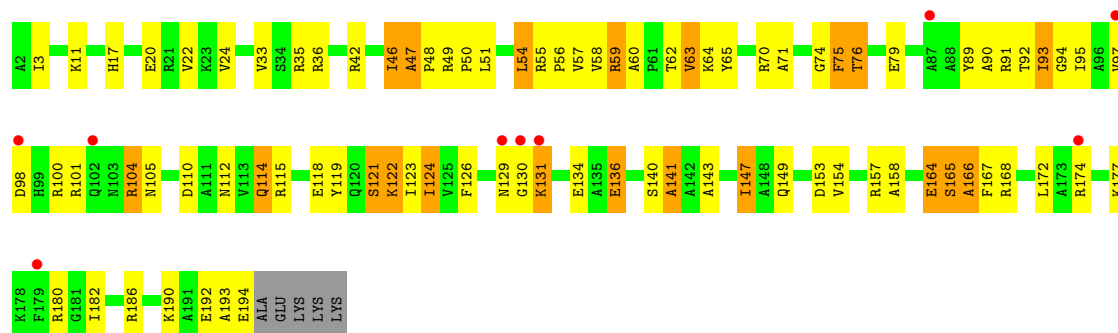
• Molecule 48: 60S ribosomal protein L11-A



• Molecule 48: 60S ribosomal protein L11-A

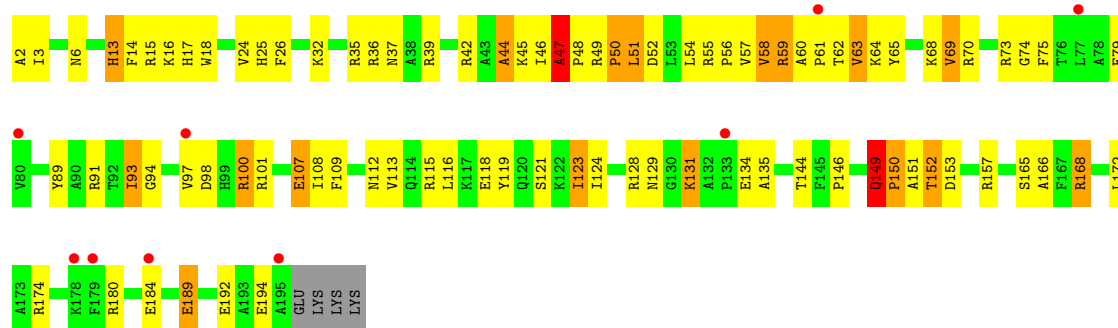


• Molecule 49: 60S ribosomal protein L13-A

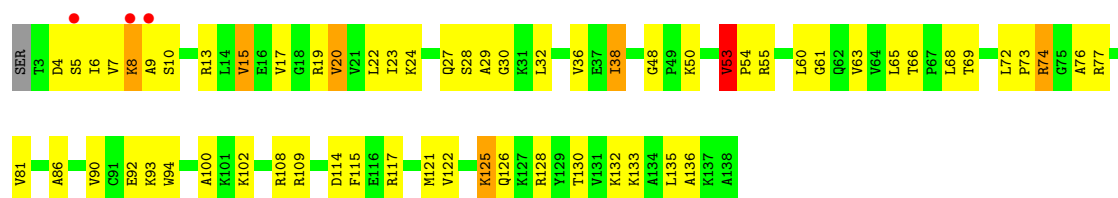


• Molecule 49: 60S ribosomal protein L13-A

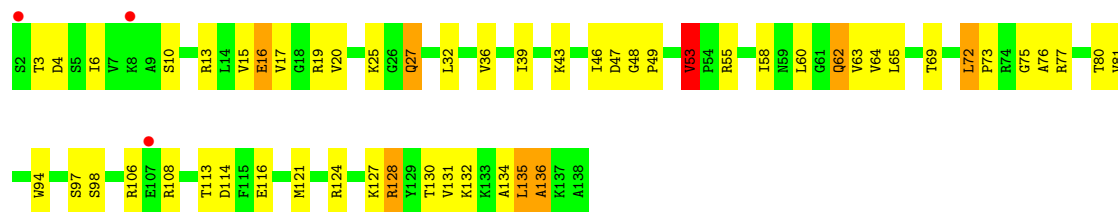




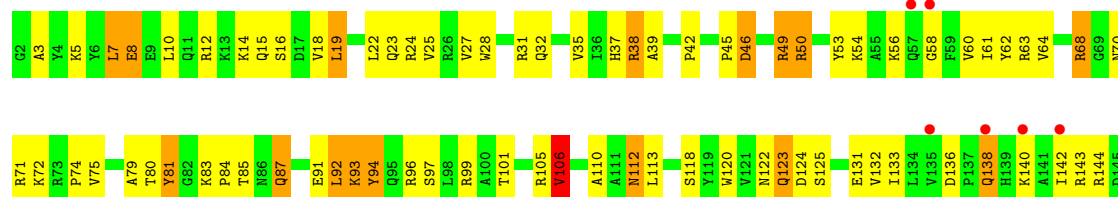
- Molecule 50: 60S ribosomal protein L14-A



- Molecule 50: 60S ribosomal protein L14-A

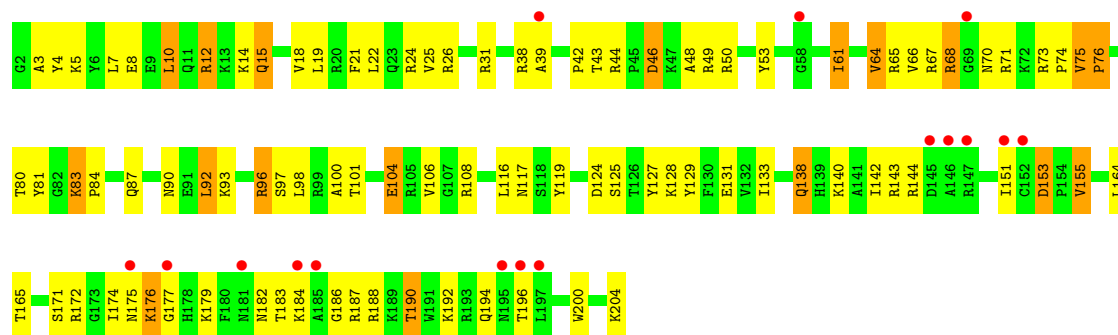


- Molecule 51: 60S ribosomal protein L15-A

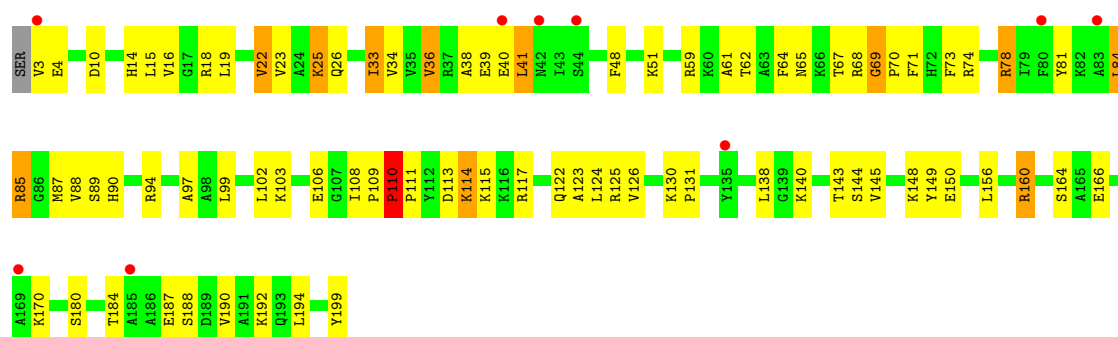


- Molecule 51: 60S ribosomal protein L15-A





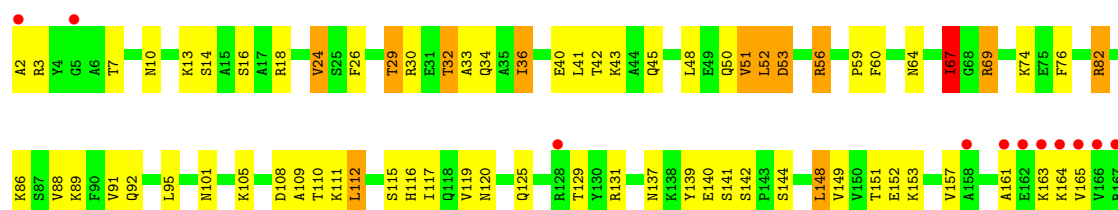
• Molecule 52: 60S ribosomal protein L16-A



• Molecule 52: 60S ribosomal protein L16-A

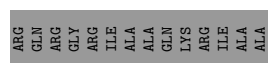
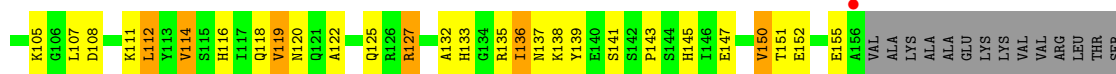


• Molecule 53: 60S ribosomal protein L17-A

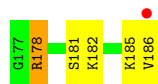
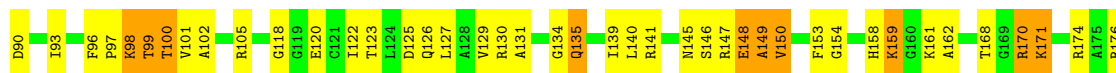




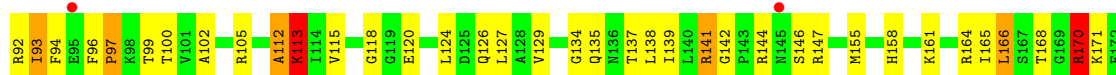
• Molecule 53: 60S ribosomal protein L17-A



• Molecule 54: 60S ribosomal protein L18-A

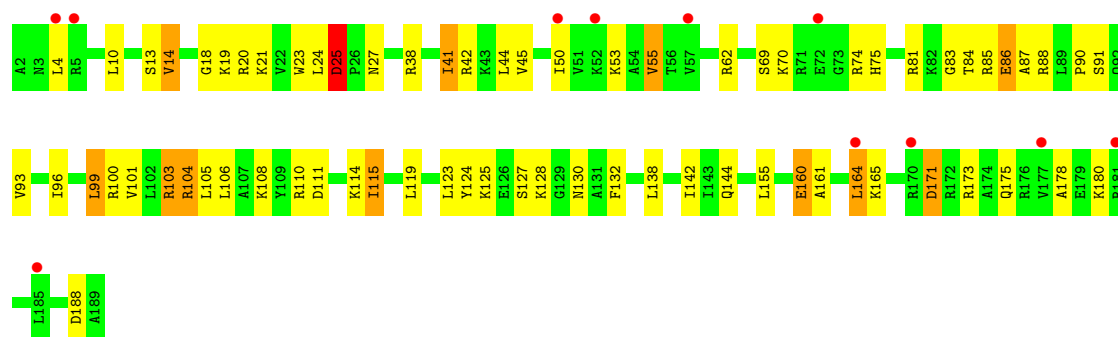


• Molecule 54: 60S ribosomal protein L18-A

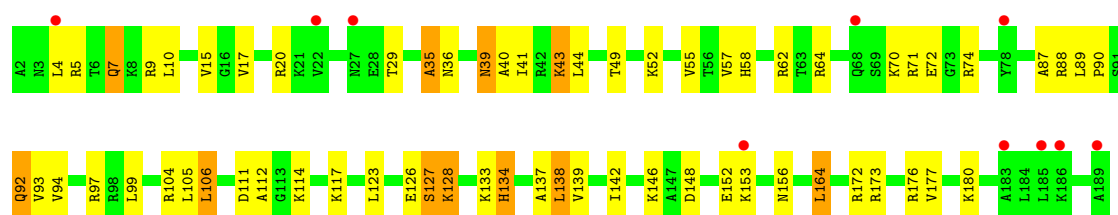


• Molecule 55: 60S ribosomal protein L19-A

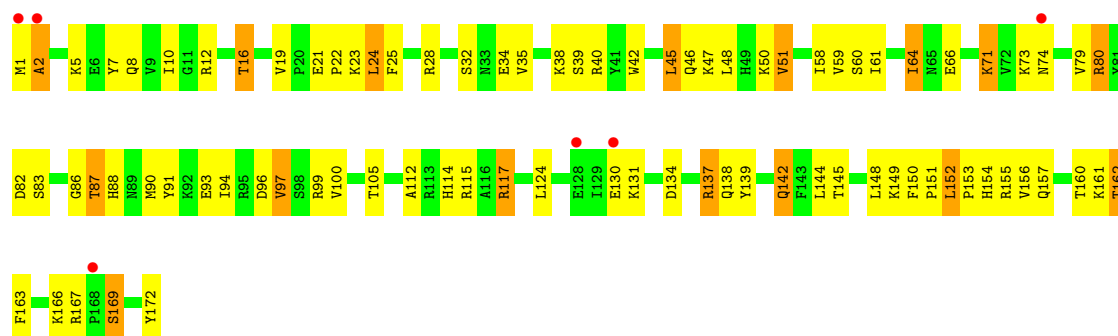




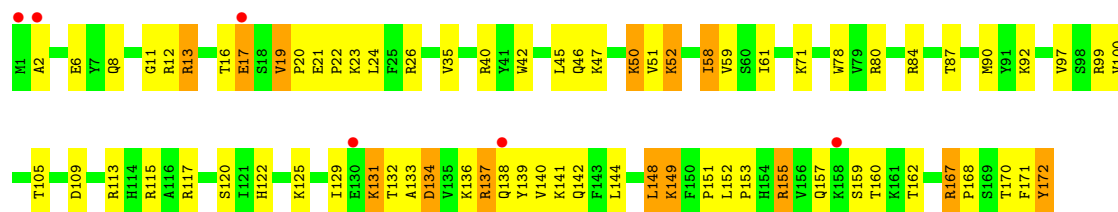
• Molecule 55: 60S ribosomal protein L19-A



• Molecule 56: 60S ribosomal protein L20-A

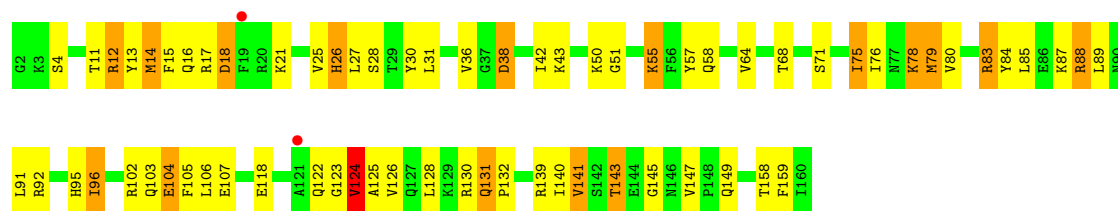


• Molecule 56: 60S ribosomal protein L20-A



• Molecule 57: 60S ribosomal protein L21-A





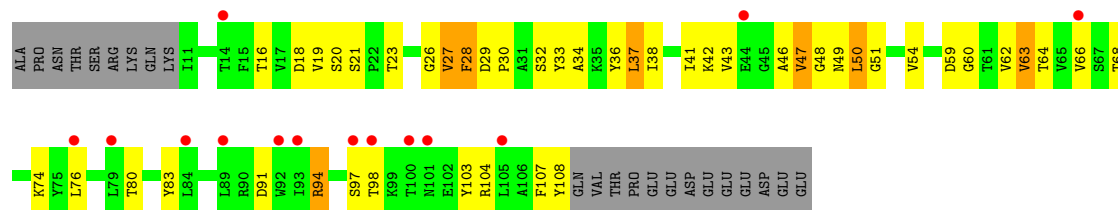
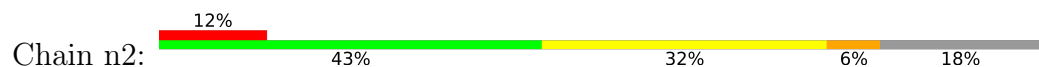
• Molecule 57: 60S ribosomal protein L21-A



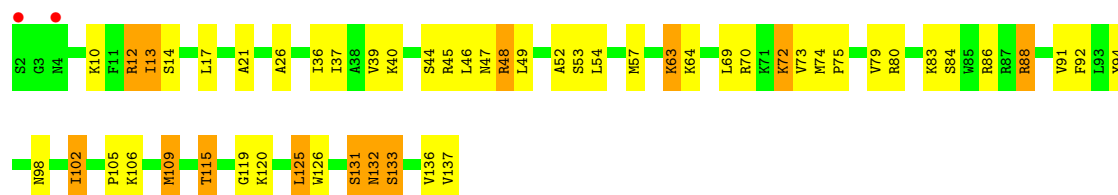
• Molecule 58: 60S ribosomal protein L22-A



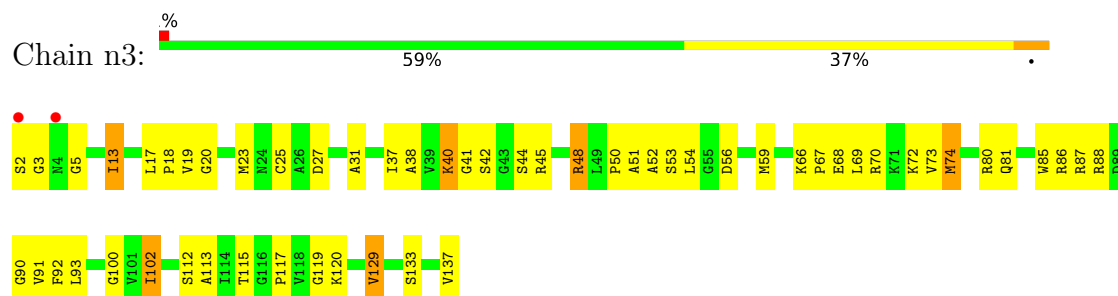
• Molecule 59: 60S ribosomal protein L23-A



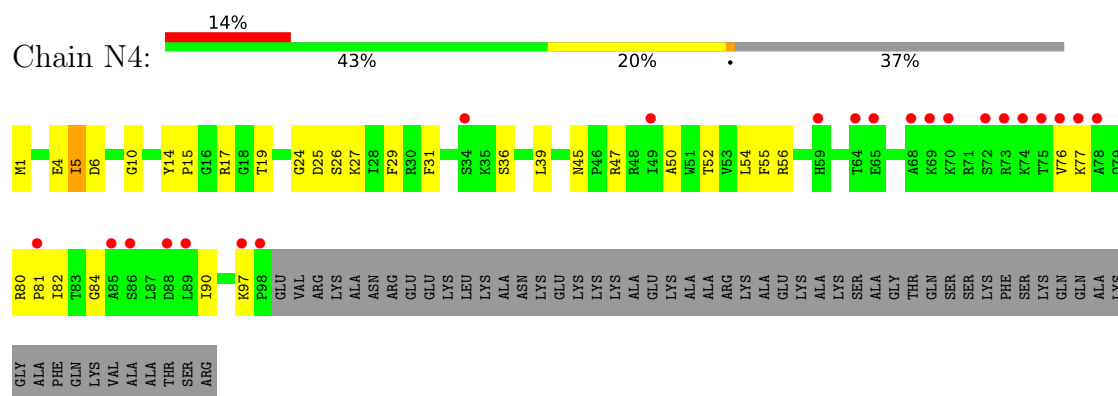
• Molecule 60: 60S ribosomal protein L24-A



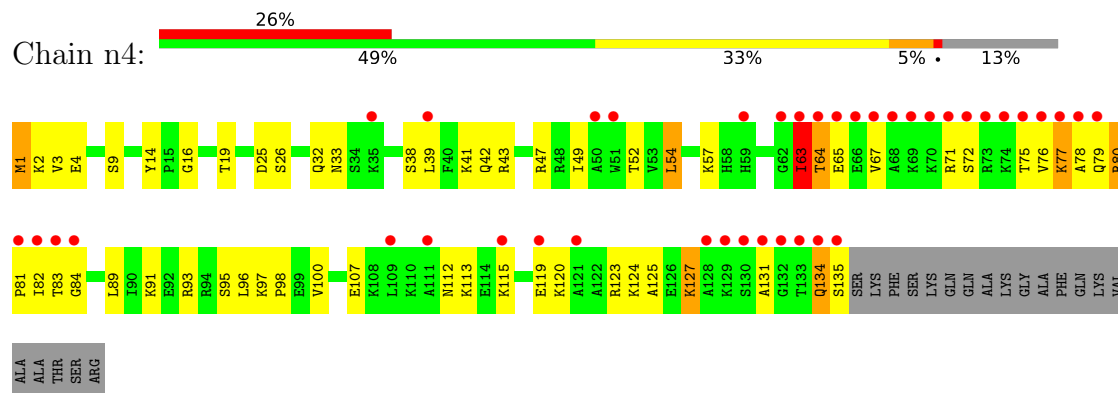
- Molecule 59: 60S ribosomal protein L23-A



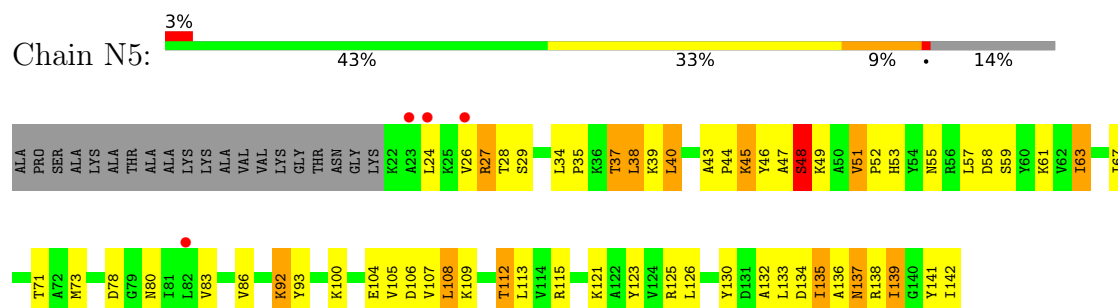
- Molecule 60: 60S ribosomal protein L24-A



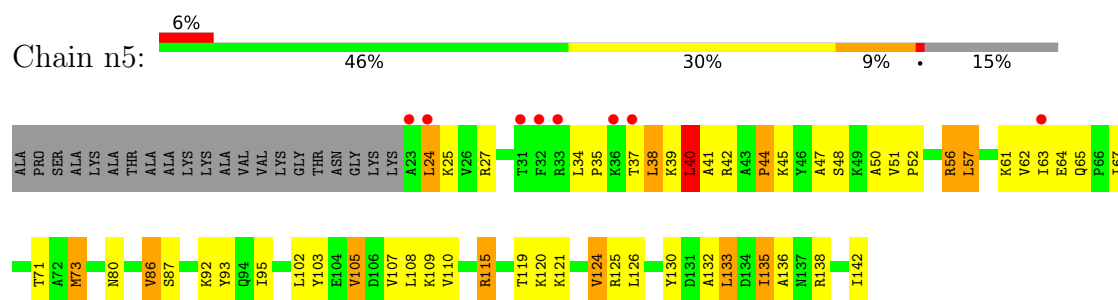
- Molecule 60: 60S ribosomal protein L24-A



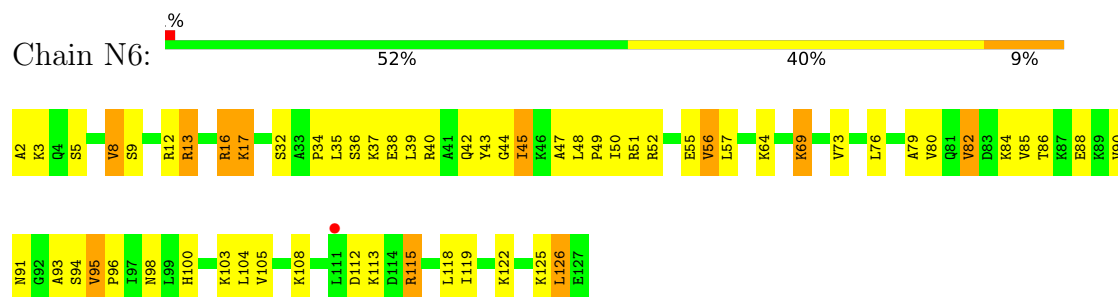
- Molecule 61: 60S ribosomal protein L25



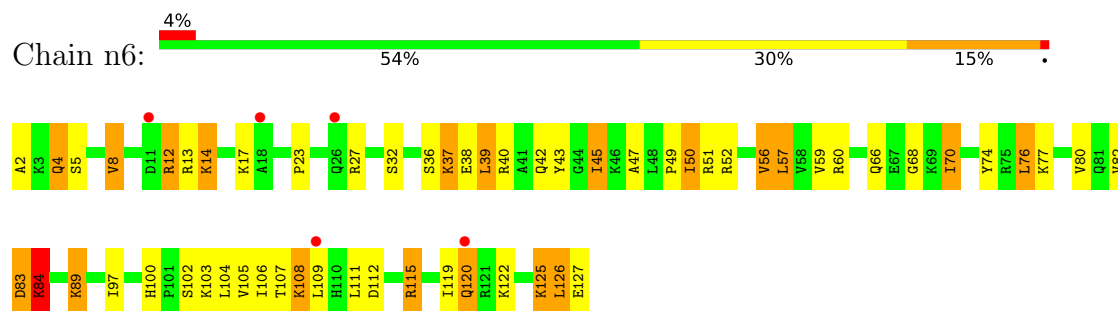
- Molecule 61: 60S ribosomal protein L25



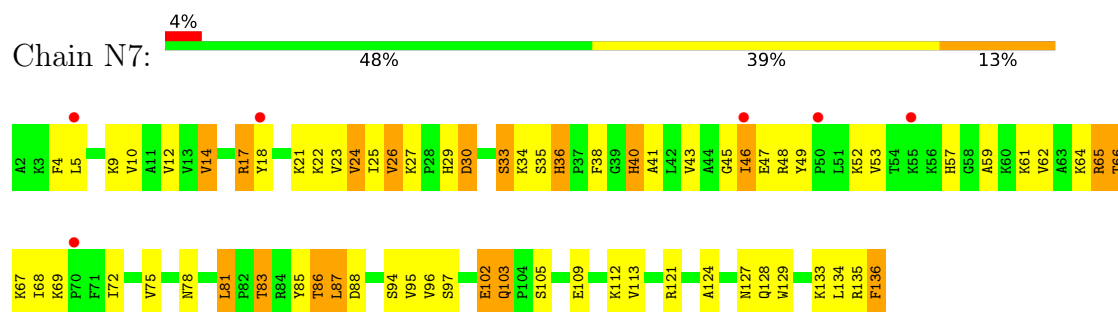
• Molecule 62: 60S ribosomal protein L26-A



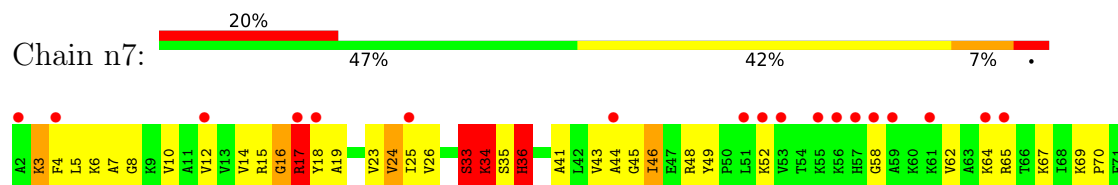
• Molecule 62: 60S ribosomal protein L26-A



• Molecule 63: 60S ribosomal protein L27-A



• Molecule 63: 60S ribosomal protein L27-A

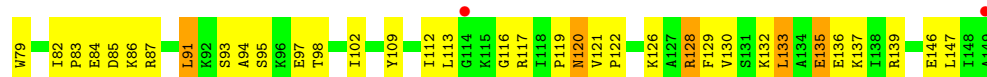
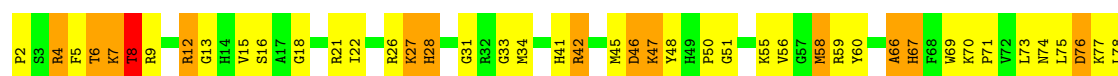




- Molecule 64: 60S ribosomal protein L28



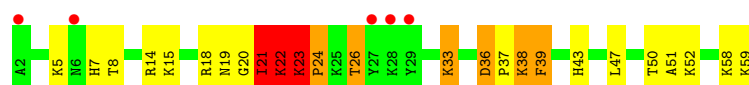
- Molecule 64: 60S ribosomal protein L28



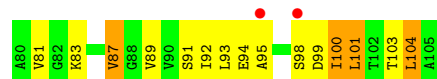
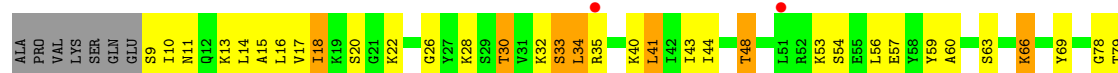
- Molecule 65: 60S ribosomal protein L29



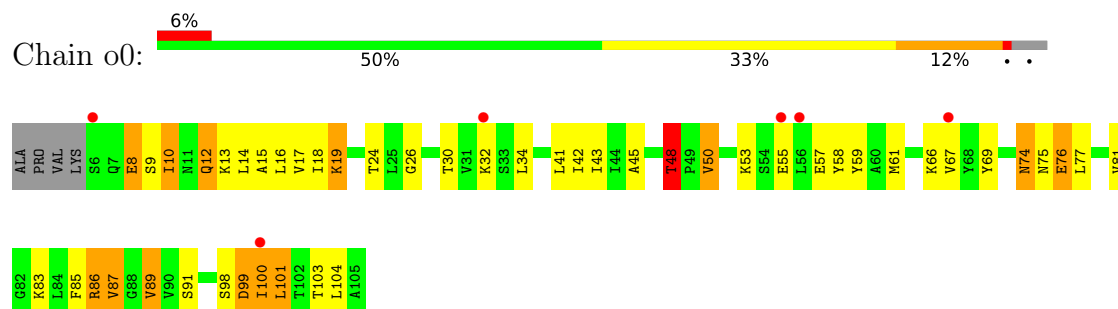
- Molecule 65: 60S ribosomal protein L29



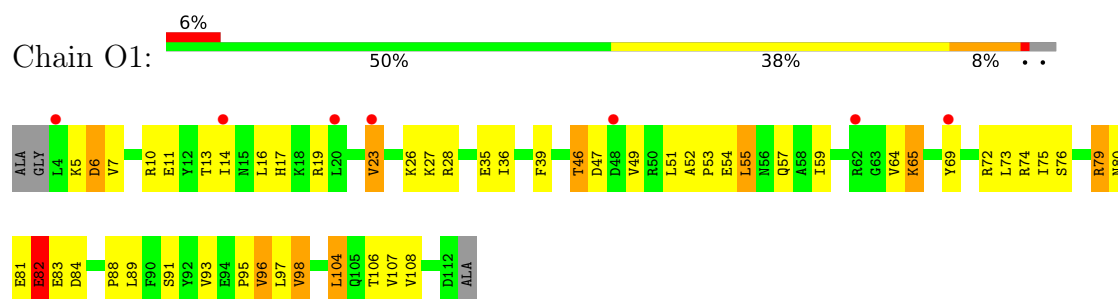
- Molecule 66: 60S ribosomal protein L30



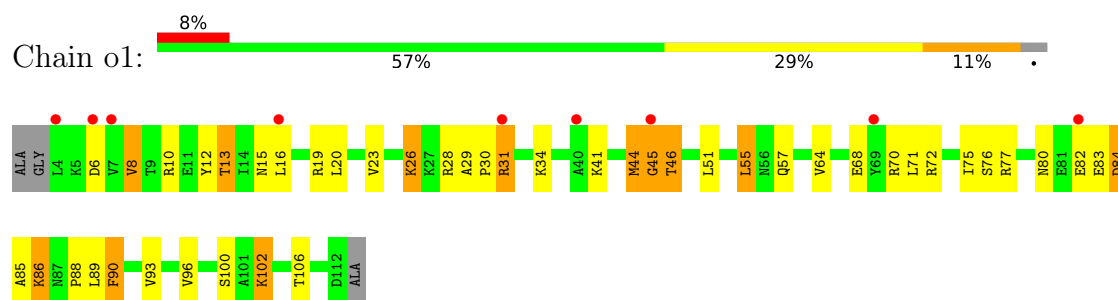
- Molecule 66: 60S ribosomal protein L30



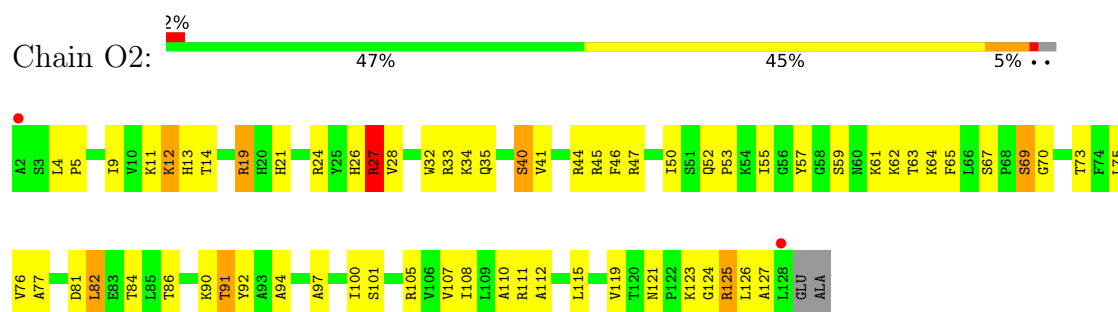
- Molecule 67: 60S ribosomal protein L31-A



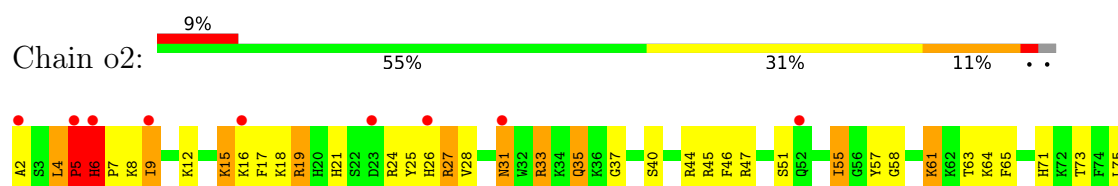
- Molecule 67: 60S ribosomal protein L31-A

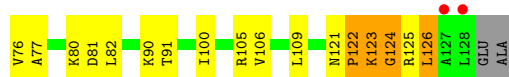


- Molecule 68: 60S ribosomal protein L32



- Molecule 68: 60S ribosomal protein L32





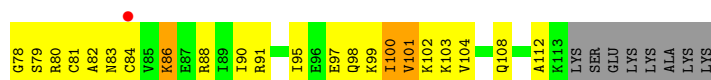
- Molecule 69: 60S ribosomal protein L33-A



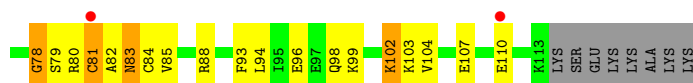
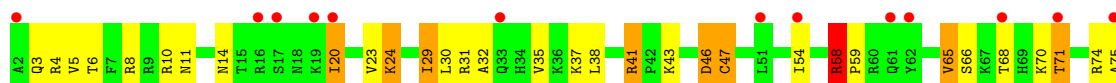
- Molecule 69: 60S ribosomal protein L33-A



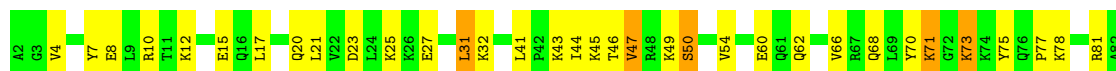
- Molecule 70: 60S ribosomal protein L34-A



- Molecule 70: 60S ribosomal protein L34-A



- Molecule 71: 60S ribosomal protein L35-A

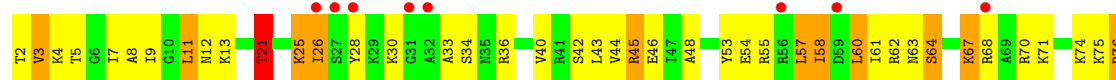
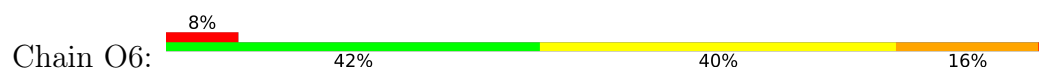




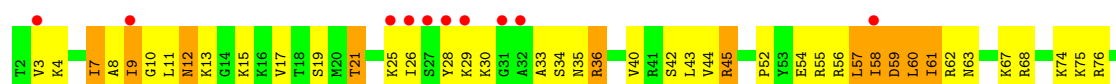
- Molecule 71: 60S ribosomal protein L35-A



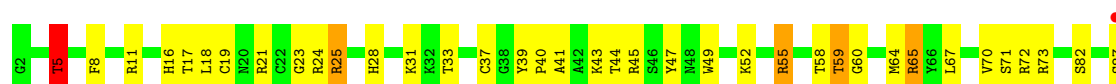
- Molecule 72: 60S ribosomal protein L36-A



- Molecule 72: 60S ribosomal protein L36-A

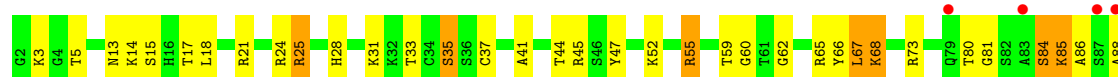


- Molecule 73: 60S ribosomal protein L37-A

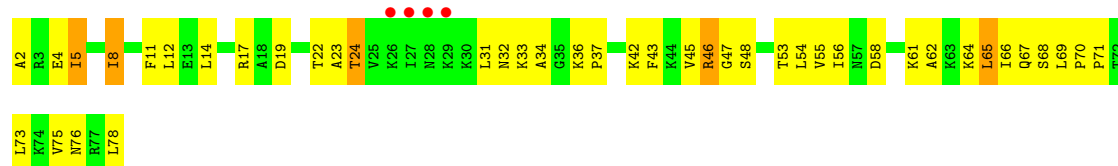


- Molecule 73: 60S ribosomal protein L37-A





- Molecule 74: 60S ribosomal protein L38



- Molecule 74: 60S ribosomal protein L38



- Molecule 75: 60S ribosomal protein L39



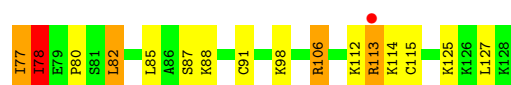
- Molecule 75: 60S ribosomal protein L39



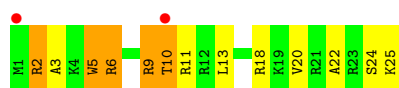
- Molecule 76: Ubiquitin-60S ribosomal protein L40



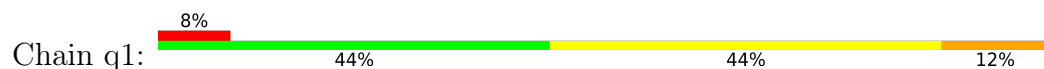
- Molecule 76: Ubiquitin-60S ribosomal protein L40



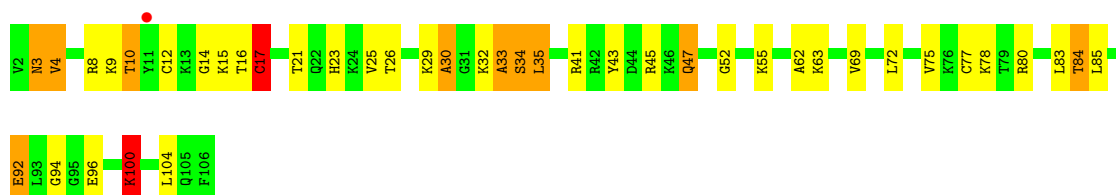
- Molecule 77: 60S ribosomal protein L41-A



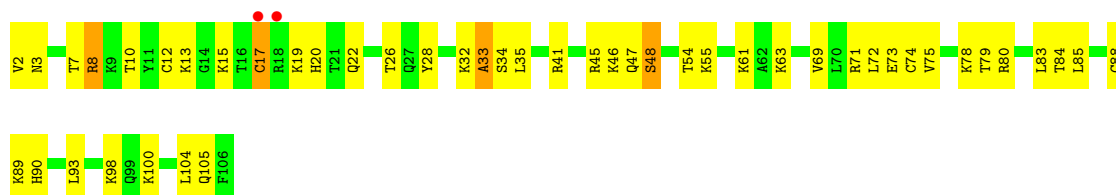
- Molecule 77: 60S ribosomal protein L41-A



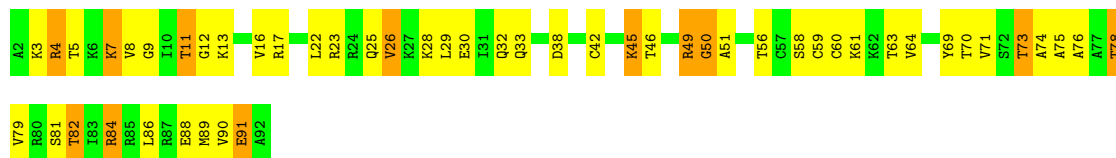
- Molecule 78: 60S ribosomal protein L42-A



- Molecule 78: 60S ribosomal protein L42-A

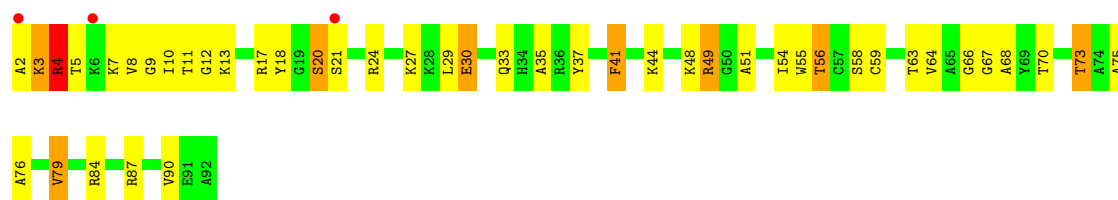


- Molecule 79: 60S ribosomal protein L43-A



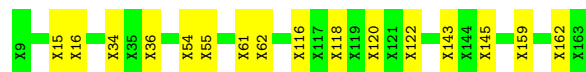
- Molecule 79: 60S ribosomal protein L43-A





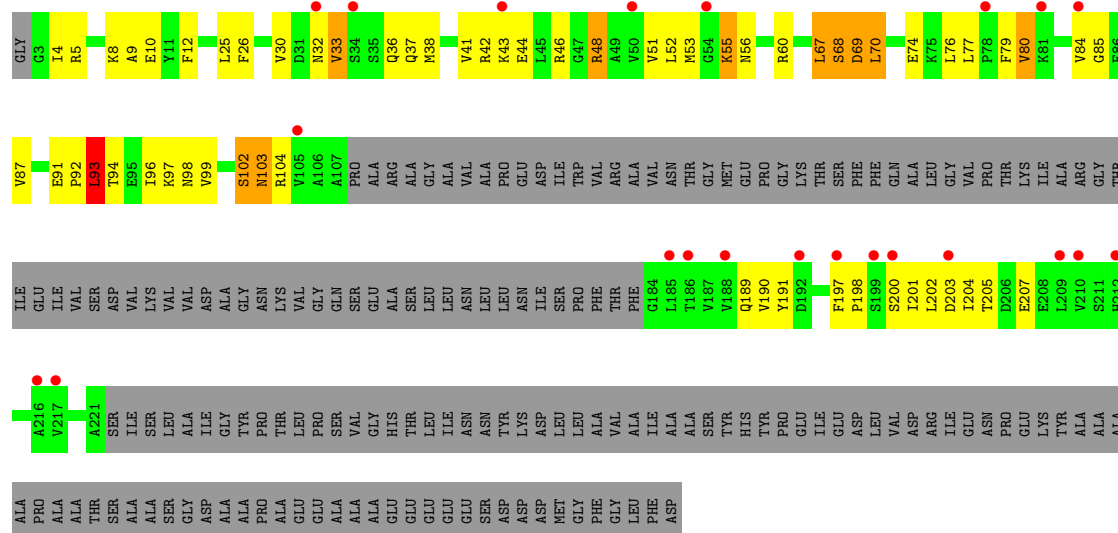
- Molecule 80: 60S ribosomal protein L12-A (uL11)

Chain m2: 89% 11%



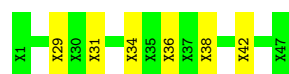
- Molecule 81: 60S acidic ribosomal protein P0

Chain p0: 7% 26% 16% 54%



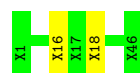
- Molecule 82: 60S ribosomal protein P1 alpha

Chain p1: 87% 13%



- Molecule 83: 60S ribosomal protein P2 beta

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	436.11Å 287.31Å 303.99Å 90.00° 98.86° 90.00°	Depositor
Resolution (Å)	49.96 – 3.10 49.96 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.96-3.10) 89.6 (49.96-3.10)	Depositor EDS
R_{merge}	0.39	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.84 (at 3.12Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.234 , 0.291 0.244 , 0.288	Depositor DCC
R_{free} test set	26664 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	63.6	Xtriage
Anisotropy	0.067	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 49.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	410912	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.43% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ANM, 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	0.28	0/42468	0.47	2/66173 (0.0%)
1	6	0.33	0/42790	0.50	1/66673 (0.0%)
2	S0	0.47	0/1617	1.01	10/2215 (0.5%)
2	s0	0.48	0/1653	0.95	9/2261 (0.4%)
3	S1	0.41	0/1735	0.88	3/2335 (0.1%)
3	s1	0.48	0/1748	0.92	5/2352 (0.2%)
4	S2	0.49	0/1665	0.97	10/2263 (0.4%)
4	s2	0.57	0/1665	0.99	7/2263 (0.3%)
5	S3	0.46	0/1759	0.92	2/2368 (0.1%)
5	s3	0.43	0/1759	0.87	5/2368 (0.2%)
6	S4	0.47	0/2109	0.95	6/2839 (0.2%)
6	s4	0.50	0/2109	0.95	6/2839 (0.2%)
7	S5	0.43	0/1629	0.92	6/2202 (0.3%)
7	s5	0.44	0/1629	0.92	7/2202 (0.3%)
8	S6	0.46	0/1823	0.90	3/2439 (0.1%)
8	s6	0.48	0/1779	0.85	0/2379
9	S7	0.45	0/1506	0.91	3/2028 (0.1%)
9	s7	0.46	0/1517	0.98	8/2044 (0.4%)
10	S8	0.50	0/1514	0.94	4/2021 (0.2%)
10	s8	0.57	0/1514	0.94	6/2021 (0.3%)
11	S9	0.45	0/1519	0.93	3/2035 (0.1%)
11	s9	0.51	0/1519	0.91	7/2035 (0.3%)
12	C0	0.41	0/730	0.81	0/985
12	c0	0.38	0/718	0.84	1/968 (0.1%)
13	C1	0.54	0/1195	0.97	3/1612 (0.2%)
13	c1	0.56	0/1195	0.92	2/1612 (0.1%)
14	C2	0.45	0/898	0.87	1/1220 (0.1%)
14	c2	0.36	0/898	0.79	0/1220
15	C3	0.48	0/1215	0.91	3/1638 (0.2%)
15	c3	0.50	0/1215	0.90	2/1638 (0.1%)
16	C4	0.43	0/901	0.92	1/1217 (0.1%)
16	c4	0.51	0/960	1.02	3/1290 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	C5	0.43	0/998	0.94	4/1341 (0.3%)
17	c5	0.51	0/1060	1.09	7/1426 (0.5%)
18	C6	0.45	0/1125	0.94	4/1510 (0.3%)
18	c6	0.46	0/1131	0.93	4/1518 (0.3%)
19	C7	0.50	0/935	0.96	2/1254 (0.2%)
19	c7	0.41	0/953	0.89	0/1275
20	C8	0.45	0/1211	0.85	0/1628
20	c8	0.46	0/1211	0.87	0/1628
21	C9	0.42	0/1130	0.86	3/1517 (0.2%)
21	c9	0.44	0/1130	0.92	0/1517
22	D0	0.48	0/865	0.90	3/1169 (0.3%)
22	d0	0.46	0/892	0.89	2/1205 (0.2%)
23	D1	0.47	0/693	0.87	0/935
23	d1	0.44	0/693	0.85	1/935 (0.1%)
24	D2	0.50	0/1038	0.97	4/1395 (0.3%)
24	d2	0.59	0/1038	0.91	0/1395
25	D3	0.56	0/1139	1.00	4/1518 (0.3%)
25	d3	0.63	0/1139	1.00	3/1518 (0.2%)
26	D4	0.46	0/1087	0.85	0/1449
26	d4	0.50	0/1087	0.94	1/1449 (0.1%)
27	D5	0.47	0/571	0.99	2/768 (0.3%)
27	d5	0.42	0/566	0.89	2/761 (0.3%)
28	D6	0.48	0/782	0.91	3/1047 (0.3%)
28	d6	0.55	0/782	0.91	1/1047 (0.1%)
29	D7	0.44	0/620	0.90	0/838
29	d7	0.47	0/620	0.95	2/838 (0.2%)
30	D8	0.45	0/499	0.85	0/670
30	d8	0.47	0/499	0.94	0/670
31	D9	0.42	0/452	0.94	4/600 (0.7%)
31	d9	0.43	0/453	0.84	0/602
32	E0	0.49	0/483	0.86	0/643
32	e0	0.53	0/499	1.17	5/665 (0.8%)
33	E1	0.49	0/577	1.01	5/770 (0.6%)
33	e1	0.49	0/619	0.99	5/822 (0.6%)
34	SR	0.40	0/2490	0.84	1/3389 (0.0%)
34	sR	0.37	0/2498	0.77	1/3398 (0.0%)
35	SM	0.54	0/984	1.02	6/1323 (0.5%)
35	sM	0.53	0/480	1.04	4/642 (0.6%)
36	1	0.42	0/75394	0.57	7/117545 (0.0%)
36	5	0.45	0/75418	0.58	3/117583 (0.0%)
37	3	0.36	0/2883	0.50	0/4491
37	7	0.43	0/2883	0.59	0/4491
38	4	0.41	0/3746	0.56	0/5832

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	8	0.38	0/3746	0.53	0/5832
39	L2	0.66	0/1948	0.99	5/2617 (0.2%)
39	l2	0.67	0/1952	1.03	6/2622 (0.2%)
40	L3	0.65	0/3136	0.93	1/4213 (0.0%)
40	l3	0.75	0/3142	1.00	8/4224 (0.2%)
41	L4	0.69	0/2800	1.07	10/3790 (0.3%)
41	l4	0.67	0/2801	1.05	14/3792 (0.4%)
42	L5	0.49	0/2425	0.91	4/3271 (0.1%)
42	l5	0.63	0/2408	0.97	3/3248 (0.1%)
43	L6	0.64	0/1260	0.99	3/1694 (0.2%)
43	l6	0.61	0/1269	0.93	2/1705 (0.1%)
44	L7	0.69	0/1821	1.05	6/2451 (0.2%)
44	l7	0.72	0/1828	1.06	6/2461 (0.2%)
45	L8	0.53	0/1836	0.97	9/2481 (0.4%)
45	l8	0.50	0/1795	0.91	5/2429 (0.2%)
46	L9	0.60	0/1539	0.93	2/2073 (0.1%)
46	l9	0.71	0/1539	0.98	0/2073
47	M0	0.68	1/1741 (0.1%)	0.99	1/2335 (0.0%)
47	m0	0.70	0/1769	1.00	4/2372 (0.2%)
48	M1	0.48	0/1374	0.94	5/1842 (0.3%)
48	m1	0.60	0/1374	1.05	10/1842 (0.5%)
49	M3	0.67	0/1568	1.00	4/2106 (0.2%)
49	m3	0.65	0/1573	1.06	6/2113 (0.3%)
50	M4	0.67	0/1068	1.02	4/1438 (0.3%)
50	m4	0.69	0/1074	1.00	2/1446 (0.1%)
51	M5	0.64	0/1757	1.00	6/2354 (0.3%)
51	m5	0.62	0/1757	1.04	9/2354 (0.4%)
52	M6	0.69	0/1585	1.05	7/2128 (0.3%)
52	m6	0.81	0/1585	1.18	10/2128 (0.5%)
53	M7	0.69	0/1443	1.00	2/1944 (0.1%)
53	m7	0.77	0/1250	1.03	0/1683
54	M8	0.67	0/1465	1.04	3/1965 (0.2%)
54	m8	0.70	1/1465 (0.1%)	1.08	5/1965 (0.3%)
55	M9	0.51	0/1538	0.91	3/2050 (0.1%)
55	m9	0.58	0/1538	0.90	1/2050 (0.0%)
56	N0	0.69	0/1481	0.99	4/1990 (0.2%)
56	n0	0.72	0/1481	1.02	1/1990 (0.1%)
57	N1	0.71	0/1300	1.02	5/1743 (0.3%)
57	n1	0.70	0/1300	0.99	3/1743 (0.2%)
58	N2	0.43	0/812	0.90	3/1099 (0.3%)
58	n2	0.47	0/794	0.94	0/1076
59	N3	0.69	0/1018	0.99	0/1369
59	n3	0.80	0/1018	1.13	5/1369 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	N4	0.56	0/712	1.18	4/958 (0.4%)
60	n4	0.61	0/1103	1.00	4/1458 (0.3%)
61	N5	0.55	0/979	1.00	4/1321 (0.3%)
61	n5	0.57	0/974	0.95	5/1314 (0.4%)
62	N6	0.64	0/1004	1.03	5/1341 (0.4%)
62	n6	0.57	0/1004	0.94	1/1341 (0.1%)
63	N7	0.49	0/1118	0.93	3/1497 (0.2%)
63	n7	0.43	0/1118	0.89	3/1497 (0.2%)
64	N8	0.69	0/1204	1.07	4/1612 (0.2%)
64	n8	0.68	0/1204	1.02	3/1612 (0.2%)
65	N9	0.63	0/473	0.99	0/629
65	n9	0.71	0/473	1.37	5/629 (0.8%)
66	O0	0.46	0/751	0.80	1/1008 (0.1%)
66	o0	0.49	0/775	0.89	2/1040 (0.2%)
67	O1	0.55	0/890	0.93	4/1196 (0.3%)
67	o1	0.64	0/904	0.89	0/1213
68	O2	0.73	0/1041	0.99	1/1394 (0.1%)
68	o2	0.71	0/1041	0.96	0/1394
69	O3	0.70	0/868	0.95	2/1168 (0.2%)
69	o3	0.74	0/868	1.10	2/1168 (0.2%)
70	O4	0.56	0/890	0.95	2/1189 (0.2%)
70	o4	0.56	0/891	1.06	7/1191 (0.6%)
71	O5	0.58	0/978	0.92	0/1301
71	o5	0.52	0/978	0.84	0/1301
72	O6	0.60	0/778	0.96	2/1034 (0.2%)
72	o6	0.55	0/778	0.99	2/1034 (0.2%)
73	O7	0.71	0/696	0.99	2/923 (0.2%)
73	o7	0.67	0/696	0.97	2/923 (0.2%)
74	O8	0.45	0/618	0.87	0/826
74	o8	0.42	0/618	0.83	0/826
75	O9	0.69	0/443	1.05	0/588
75	o9	0.60	0/443	0.90	0/588
76	Q0	0.62	0/423	1.07	4/562 (0.7%)
76	q0	0.77	0/423	1.01	0/562
77	Q1	0.51	0/234	0.91	1/300 (0.3%)
77	q1	0.58	0/234	0.99	0/300
78	Q2	0.66	1/860 (0.1%)	1.00	2/1136 (0.2%)
78	q2	0.65	0/860	0.97	3/1136 (0.3%)
79	Q3	0.64	0/701	0.97	0/934
79	q3	0.64	0/701	1.06	3/934 (0.3%)
81	p0	0.42	0/1092	0.90	0/1474
All	All	0.48	3/430516 (0.0%)	0.74	492/632094 (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	1
9	S7	0	1
17	c5	0	1
19	C7	0	1
26	d4	0	1
27	D5	0	1
28	D6	0	1
44	l7	0	2
52	M6	0	1
56	N0	0	2
59	n3	0	1
64	n8	0	1
79	q3	0	1
All	All	0	15

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	m8	175	ALA	CA-C	6.21	1.55	1.52
78	Q2	17	CYS	CB-SG	6.10	2.01	1.81
47	M0	127	ALA	CA-CB	-5.45	1.45	1.53

All (492) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	N4	80	ARG	CA-C-N	14.78	138.32	119.84
60	N4	80	ARG	C-N-CA	14.78	138.32	119.84
52	m6	110	PRO	CA-C-N	-12.01	106.46	119.19
52	m6	110	PRO	C-N-CA	-12.01	106.46	119.19
52	m6	109	PRO	CA-C-N	11.60	132.33	120.38
52	m6	109	PRO	C-N-CA	11.60	132.33	120.38
65	n9	23	LYS	CA-C-N	-11.46	105.52	119.84
65	n9	23	LYS	C-N-CA	-11.46	105.52	119.84
72	o6	21	THR	CA-C-N	11.38	131.48	119.76
72	o6	21	THR	C-N-CA	11.38	131.48	119.76
9	s7	131	PHE	CA-C-N	-11.01	109.64	120.21
9	s7	131	PHE	C-N-CA	-11.01	109.64	120.21
41	L4	3	ARG	CA-C-N	10.21	132.60	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	3	ARG	C-N-CA	10.21	132.60	119.84
69	o3	89	LEU	CA-C-N	10.18	129.80	119.82
69	o3	89	LEU	C-N-CA	10.18	129.80	119.82
49	m3	47	ALA	CA-C-N	-9.82	109.61	121.00
49	m3	47	ALA	C-N-CA	-9.82	109.61	121.00
4	s2	93	GLY	N-CA-C	9.63	118.97	110.21
6	s4	105	VAL	N-CA-C	-9.38	104.80	113.71
7	s5	27	THR	CA-C-N	9.33	131.50	119.84
7	s5	27	THR	C-N-CA	9.33	131.50	119.84
54	m8	18	ALA	CA-C-N	-9.28	109.97	119.99
54	m8	18	ALA	C-N-CA	-9.28	109.97	119.99
39	l2	216	HIS	N-CA-C	-9.18	94.60	108.46
35	SM	38	PRO	CA-C-N	9.16	129.82	120.38
35	SM	38	PRO	C-N-CA	9.16	129.82	120.38
49	m3	149	GLN	CA-C-N	9.06	131.17	119.84
49	m3	149	GLN	C-N-CA	9.06	131.17	119.84
15	c3	136	PRO	CA-C-N	8.84	130.88	119.84
15	c3	136	PRO	C-N-CA	8.84	130.88	119.84
17	c5	52	LYS	CA-C-N	-8.79	110.80	121.00
17	c5	52	LYS	C-N-CA	-8.79	110.80	121.00
73	o7	5	THR	CA-C-N	-8.76	110.71	119.56
73	o7	5	THR	C-N-CA	-8.76	110.71	119.56
42	l5	271	LYS	N-CA-C	-8.71	102.20	112.92
16	c4	91	THR	N-CA-C	8.68	121.84	111.33
41	l4	22	LEU	CA-C-N	8.60	129.66	120.12
41	l4	22	LEU	C-N-CA	8.60	129.66	120.12
64	n8	67	HIS	N-CA-C	-8.45	102.41	112.89
27	D5	54	VAL	CA-C-N	-8.37	112.17	120.21
27	D5	54	VAL	C-N-CA	-8.37	112.17	120.21
70	o4	58	ARG	CA-C-N	8.31	130.23	119.84
70	o4	58	ARG	C-N-CA	8.31	130.23	119.84
36	5	1307	G	C2'-C3'-O3'	8.30	121.95	109.50
32	e0	59	GLY	CA-C-N	8.22	130.11	119.84
32	e0	59	GLY	C-N-CA	8.22	130.11	119.84
25	D3	87	VAL	CA-C-N	8.19	128.20	119.76
25	D3	87	VAL	C-N-CA	8.19	128.20	119.76
65	n9	36	ASP	CA-C-N	8.19	127.76	119.24
65	n9	36	ASP	C-N-CA	8.19	127.76	119.24
39	l2	55	GLY	N-CA-C	-8.17	102.53	111.93
10	s8	107	THR	CA-C-N	-8.17	111.39	119.64
10	s8	107	THR	C-N-CA	-8.17	111.39	119.64
52	m6	110	PRO	N-CA-C	8.17	120.66	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	n3	5	GLY	N-CA-C	-8.16	104.31	114.92
79	q3	12	GLY	N-CA-C	-8.16	104.29	114.16
44	l7	95	ILE	CA-C-N	8.06	128.68	120.38
44	l7	95	ILE	C-N-CA	8.06	128.68	120.38
17	C5	124	THR	CA-C-N	8.03	129.87	119.84
17	C5	124	THR	C-N-CA	8.03	129.87	119.84
51	m5	177	GLY	N-CA-C	7.99	120.15	112.08
50	M4	53	VAL	CA-C-N	7.74	128.20	119.92
50	M4	53	VAL	C-N-CA	7.74	128.20	119.92
5	S3	219	ALA	CA-C-N	7.73	129.50	119.84
5	S3	219	ALA	C-N-CA	7.73	129.50	119.84
36	5	1307	G	P-O3'-C3'	7.71	131.77	120.20
17	c5	124	THR	CA-C-N	7.70	129.46	119.84
17	c5	124	THR	C-N-CA	7.70	129.46	119.84
32	e0	62	VAL	N-CA-C	-7.61	103.38	110.53
54	m8	59	ARG	CA-C-N	-7.60	112.55	120.38
54	m8	59	ARG	C-N-CA	-7.60	112.55	120.38
52	m6	107	GLY	CA-C-N	-7.58	114.91	123.25
52	m6	107	GLY	C-N-CA	-7.58	114.91	123.25
48	m1	152	HIS	N-CA-C	-7.53	97.64	107.73
56	N0	134	ASP	N-CA-C	-7.51	104.26	113.50
16	c4	95	GLY	CA-C-N	7.47	127.01	119.24
16	c4	95	GLY	C-N-CA	7.47	127.01	119.24
57	n1	134	GLN	CA-C-N	7.46	129.17	119.84
57	n1	134	GLN	C-N-CA	7.46	129.17	119.84
51	M5	93	LYS	N-CA-C	7.31	122.76	113.55
51	m5	75	VAL	CA-C-N	7.28	128.94	119.84
51	m5	75	VAL	C-N-CA	7.28	128.94	119.84
61	N5	43	ALA	CA-C-N	7.25	128.90	119.84
61	N5	43	ALA	C-N-CA	7.25	128.90	119.84
2	S0	103	THR	CA-C-N	7.21	126.97	119.76
2	S0	103	THR	C-N-CA	7.21	126.97	119.76
44	L7	203	TRP	CA-C-N	-7.20	112.91	120.03
44	L7	203	TRP	C-N-CA	-7.20	112.91	120.03
18	C6	40	GLU	C-N-CD	-7.19	104.79	120.60
2	s0	67	ILE	CA-C-N	7.15	128.78	119.84
2	s0	67	ILE	C-N-CA	7.15	128.78	119.84
24	D2	76	SER	CA-C-N	-7.12	110.94	119.84
24	D2	76	SER	C-N-CA	-7.12	110.94	119.84
48	m1	160	VAL	N-CA-C	-7.07	105.73	111.81
48	m1	133	ARG	CA-C-N	-7.06	113.53	120.52
48	m1	133	ARG	C-N-CA	-7.06	113.53	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	S5	29	ILE	CA-C-N	7.06	128.66	119.84
7	S5	29	ILE	C-N-CA	7.06	128.66	119.84
41	l4	316	ASN	CA-C-N	7.06	128.66	119.84
41	l4	316	ASN	C-N-CA	7.06	128.66	119.84
2	S0	10	THR	CA-C-N	7.06	127.36	119.32
2	S0	10	THR	C-N-CA	7.06	127.36	119.32
18	C6	40	GLU	CA-C-N	7.05	143.92	127.00
18	C6	40	GLU	C-N-CA	7.05	143.92	127.00
70	O4	58	ARG	CA-C-N	7.04	128.64	119.84
70	O4	58	ARG	C-N-CA	7.04	128.64	119.84
45	L8	72	PRO	CA-C-N	7.04	126.74	119.56
45	L8	72	PRO	C-N-CA	7.04	126.74	119.56
12	c0	83	PRO	N-CA-CB	7.01	110.61	103.25
5	s3	219	ALA	CA-C-N	7.01	128.60	119.84
5	s3	219	ALA	C-N-CA	7.01	128.60	119.84
34	sR	37	SER	N-CA-C	6.95	117.21	108.45
21	C9	30	VAL	CA-C-N	6.92	128.49	119.84
21	C9	30	VAL	C-N-CA	6.92	128.49	119.84
11	S9	14	THR	CA-C-N	6.89	128.46	119.84
11	S9	14	THR	C-N-CA	6.89	128.46	119.84
6	S4	229	GLY	N-CA-C	6.83	119.22	110.20
78	Q2	4	VAL	CA-C-N	6.79	126.55	119.76
78	Q2	4	VAL	C-N-CA	6.79	126.55	119.76
59	n3	42	SER	N-CA-C	6.78	119.31	110.43
9	S7	31	SER	N-CA-C	6.77	122.71	113.77
51	M5	177	GLY	N-CA-C	6.77	119.98	111.85
43	L6	74	VAL	CA-C-N	6.77	127.22	120.52
43	L6	74	VAL	C-N-CA	6.77	127.22	120.52
54	m8	170	ARG	N-CA-C	-6.77	100.96	110.50
5	s3	210	GLU	CA-C-N	6.76	128.29	119.84
5	s3	210	GLU	C-N-CA	6.76	128.29	119.84
2	s0	3	LEU	CA-C-N	6.68	128.20	119.84
2	s0	3	LEU	C-N-CA	6.68	128.20	119.84
6	s4	151	ASP	CA-C-N	6.66	126.35	119.82
6	s4	151	ASP	C-N-CA	6.66	126.35	119.82
44	L7	98	LYS	CA-C-N	-6.65	112.84	119.56
44	L7	98	LYS	C-N-CA	-6.65	112.84	119.56
42	L5	138	GLY	CA-C-N	6.64	128.15	119.84
42	L5	138	GLY	C-N-CA	6.64	128.15	119.84
72	O6	21	THR	CA-C-N	6.64	127.18	120.14
72	O6	21	THR	C-N-CA	6.64	127.18	120.14
48	m1	173	ASP	CB-CA-C	-6.63	108.94	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	sM	43	ASP	CA-C-N	6.63	126.32	119.56
35	sM	43	ASP	C-N-CA	6.63	126.32	119.56
17	c5	74	ALA	CA-C-N	6.58	128.07	119.84
17	c5	74	ALA	C-N-CA	6.58	128.07	119.84
2	S0	206	ASP	N-CA-C	6.58	114.14	108.22
70	o4	81	CYS	N-CA-C	6.57	117.80	108.54
18	c6	40	GLU	CA-C-N	-6.55	113.06	119.87
18	c6	40	GLU	C-N-CA	-6.55	113.06	119.87
47	m0	62	SER	N-CA-C	-6.55	104.22	111.36
4	S2	181	SER	CA-C-N	6.53	128.00	119.84
4	S2	181	SER	C-N-CA	6.53	128.00	119.84
73	O7	5	THR	CA-C-N	-6.49	113.12	119.87
73	O7	5	THR	C-N-CA	-6.49	113.12	119.87
69	O3	3	GLU	N-CA-C	-6.44	105.55	113.41
39	L2	91	GLY	N-CA-C	6.43	118.61	110.96
4	S2	235	LEU	CA-C-N	6.42	127.86	119.84
4	S2	235	LEU	C-N-CA	6.42	127.86	119.84
36	1	1329	U	C4'-C3'-O3'	6.39	118.99	109.40
25	d3	41	SER	CA-C-N	6.39	125.62	118.97
25	d3	41	SER	C-N-CA	6.39	125.62	118.97
41	L4	22	LEU	CA-C-N	6.35	127.77	119.84
41	L4	22	LEU	C-N-CA	6.35	127.77	119.84
52	M6	109	PRO	CA-C-N	6.34	126.91	120.38
52	M6	109	PRO	C-N-CA	6.34	126.91	120.38
50	M4	30	GLY	N-CA-C	-6.33	106.98	115.21
9	S7	62	VAL	CA-C-N	6.31	127.73	119.84
9	S7	62	VAL	C-N-CA	6.31	127.73	119.84
35	SM	51	ARG	CA-C-N	6.30	127.72	119.84
35	SM	51	ARG	C-N-CA	6.30	127.72	119.84
41	l4	3	ARG	CA-C-N	6.29	127.70	119.84
41	l4	3	ARG	C-N-CA	6.29	127.70	119.84
4	S2	226	THR	CA-C-N	6.27	126.47	119.32
4	S2	226	THR	C-N-CA	6.27	126.47	119.32
6	S4	105	VAL	N-CA-C	-6.26	106.09	113.42
45	l8	24	ASN	CA-C-N	6.24	127.63	119.84
45	l8	24	ASN	C-N-CA	6.24	127.63	119.84
46	L9	41	ILE	N-CA-C	6.23	119.63	113.71
29	d7	27	GLY	CA-C-N	6.21	126.18	120.03
29	d7	27	GLY	C-N-CA	6.21	126.18	120.03
10	S8	199	LYS	N-CA-C	-6.21	106.93	114.75
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	n8	46	ASP	N-CA-C	-6.18	101.78	110.50
40	l3	8	ALA	CA-C-N	-6.18	114.25	120.31
40	l3	8	ALA	C-N-CA	-6.18	114.25	120.31
41	l4	222	VAL	CA-C-N	6.17	127.55	119.84
41	l4	222	VAL	C-N-CA	6.17	127.55	119.84
47	m0	81	GLY	N-CA-C	6.16	120.43	112.18
60	n4	75	THR	N-CA-C	6.14	116.18	108.45
31	D9	10	HIS	CA-C-N	6.13	127.51	119.84
31	D9	10	HIS	C-N-CA	6.13	127.51	119.84
44	L7	27	ALA	N-CA-C	-6.11	105.86	113.38
33	E1	104	SER	N-CA-C	-6.08	105.44	112.92
76	Q0	104	PRO	CA-C-N	6.08	125.78	119.82
76	Q0	104	PRO	C-N-CA	6.08	125.78	119.82
9	s7	185	ILE	CA-C-N	-6.08	113.42	119.92
9	s7	185	ILE	C-N-CA	-6.08	113.42	119.92
55	M9	25	ASP	CA-C-N	6.07	125.77	119.82
55	M9	25	ASP	C-N-CA	6.07	125.77	119.82
8	S6	103	GLY	CA-C-N	6.06	127.41	119.84
8	S6	103	GLY	C-N-CA	6.06	127.41	119.84
41	l4	191	LYS	N-CA-C	-6.05	105.85	113.72
13	C1	22	ASN	CA-C-N	6.04	125.66	119.56
13	C1	22	ASN	C-N-CA	6.04	125.66	119.56
36	1	3319	U	C2'-C3'-O3'	6.04	118.56	109.50
63	N7	59	ALA	CB-CA-C	-6.04	109.60	116.54
51	M5	172	ARG	N-CA-C	-6.01	105.77	113.23
64	n8	8	THR	N-CA-C	-6.00	105.92	113.18
49	M3	149	GLN	CA-C-N	6.00	127.34	119.84
49	M3	149	GLN	C-N-CA	6.00	127.34	119.84
51	m5	67	ARG	N-CA-C	5.99	120.43	113.18
48	M1	73	GLY	CA-C-N	5.98	127.32	119.84
48	M1	73	GLY	C-N-CA	5.98	127.32	119.84
63	N7	34	LYS	N-CA-C	-5.98	104.10	111.40
62	N6	52	ARG	CA-C-N	-5.98	114.26	123.17
62	N6	52	ARG	C-N-CA	-5.98	114.26	123.17
48	M1	42	GLY	N-CA-C	-5.97	107.97	115.08
35	SM	53	ARG	CA-C-N	5.96	125.72	119.76
35	SM	53	ARG	C-N-CA	5.96	125.72	119.76
6	s4	34	GLY	CA-C-N	5.94	126.04	119.87
6	s4	34	GLY	C-N-CA	5.94	126.04	119.87
41	l4	192	GLY	N-CA-C	-5.93	106.98	114.16
10	S8	7	SER	N-CA-C	-5.93	105.97	112.72
33	E1	138	ARG	N-CA-C	5.92	118.14	108.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	c6	104	GLU	N-CA-C	-5.92	104.17	111.40
11	s9	90	LYS	N-CA-C	-5.92	104.72	112.41
42	L5	65	ILE	N-CA-C	5.91	116.52	107.77
70	o4	68	THR	N-CA-C	-5.91	106.03	113.18
15	C3	22	ALA	C-N-CD	-5.90	107.61	120.60
4	S2	150	GLN	CA-C-N	5.89	127.21	119.84
4	S2	150	GLN	C-N-CA	5.89	127.21	119.84
51	M5	83	LYS	CA-C-N	-5.89	114.16	120.47
51	M5	83	LYS	C-N-CA	-5.89	114.16	120.47
79	q3	21	SER	N-CA-C	5.89	118.46	111.33
35	sM	38	PRO	CA-C-N	5.88	126.44	120.38
35	sM	38	PRO	C-N-CA	5.88	126.44	120.38
50	m4	53	VAL	CA-C-N	5.88	127.47	120.23
50	m4	53	VAL	C-N-CA	5.88	127.47	120.23
57	n1	104	GLU	N-CA-C	-5.88	104.95	111.36
44	L7	177	GLY	N-CA-C	-5.87	102.01	112.22
61	N5	51	VAL	CA-C-N	5.86	126.20	119.93
61	N5	51	VAL	C-N-CA	5.86	126.20	119.93
51	m5	83	LYS	CA-C-N	-5.85	113.73	119.64
51	m5	83	LYS	C-N-CA	-5.85	113.73	119.64
78	q2	55	LYS	CA-C-N	5.83	125.78	119.78
78	q2	55	LYS	C-N-CA	5.83	125.78	119.78
56	N0	39	SER	N-CA-C	-5.82	104.85	111.07
67	O1	52	ALA	CA-C-N	5.81	125.48	119.56
67	O1	52	ALA	C-N-CA	5.81	125.48	119.56
51	m5	64	VAL	N-CA-C	5.81	116.22	108.27
41	L4	327	LEU	N-CA-C	-5.80	102.73	110.55
55	m9	72	GLU	N-CA-C	-5.79	105.98	113.16
39	L2	232	GLY	N-CA-C	-5.79	107.07	114.37
22	D0	28	SER	N-CA-C	5.79	116.04	107.88
21	C9	6	VAL	N-CA-C	-5.79	107.86	113.53
62	N6	9	SER	N-CA-C	5.78	117.95	108.52
33	e1	123	ASN	CA-C-N	5.78	127.07	119.84
33	e1	123	ASN	C-N-CA	5.78	127.07	119.84
45	l8	224	ASP	N-CA-C	-5.78	106.18	113.18
48	m1	124	GLY	N-CA-C	-5.78	103.45	112.58
55	M9	160	GLU	N-CA-C	-5.77	105.34	112.90
2	S0	3	LEU	CA-C-N	5.77	127.05	119.84
2	S0	3	LEU	C-N-CA	5.77	127.05	119.84
7	s5	44	ASN	N-CA-C	-5.77	104.99	111.28
68	O2	62	LYS	N-CA-C	5.76	117.25	110.97
2	s0	165	ARG	N-CA-C	-5.76	106.02	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	M3	104	ARG	N-CA-C	-5.75	106.61	113.97
62	N6	100	HIS	CA-C-N	5.75	125.45	119.82
62	N6	100	HIS	C-N-CA	5.75	125.45	119.82
52	M6	69	GLY	CA-C-N	5.74	126.08	119.93
52	M6	69	GLY	C-N-CA	5.74	126.08	119.93
60	n4	80	ARG	CA-C-N	5.73	126.53	120.11
60	n4	80	ARG	C-N-CA	5.73	126.53	120.11
25	D3	111	GLY	N-CA-C	-5.72	101.37	112.02
41	l4	221	ASN	CA-C-N	-5.72	117.78	123.04
41	l4	221	ASN	C-N-CA	-5.72	117.78	123.04
7	S5	27	THR	CA-C-N	5.71	125.47	119.76
7	S5	27	THR	C-N-CA	5.71	125.47	119.76
40	l3	82	PRO	O-C-N	5.71	123.83	121.15
19	C7	85	VAL	CA-C-N	5.71	126.97	119.84
19	C7	85	VAL	C-N-CA	5.71	126.97	119.84
45	L8	71	VAL	CA-C-N	5.71	123.83	119.66
45	L8	71	VAL	C-N-CA	5.71	123.83	119.66
45	L8	236	GLY	N-CA-C	-5.70	107.78	115.36
49	m3	55	ARG	CA-C-N	5.70	125.68	120.21
49	m3	55	ARG	C-N-CA	5.70	125.68	120.21
41	L4	191	LYS	N-CA-C	-5.70	106.29	113.18
24	D2	109	GLY	N-CA-C	5.69	117.36	111.95
60	N4	45	ASN	CA-C-N	5.69	125.80	119.32
60	N4	45	ASN	C-N-CA	5.69	125.80	119.32
59	n3	44	SER	N-CA-C	5.68	117.90	108.13
56	n0	134	ASP	N-CA-C	-5.68	106.40	113.38
39	L2	122	ASP	N-CA-C	-5.67	105.67	112.59
3	S1	78	ASP	N-CA-C	-5.66	106.59	112.93
4	s2	36	VAL	CA-C-N	5.65	125.67	119.90
4	s2	36	VAL	C-N-CA	5.65	125.67	119.90
53	M7	140	GLU	N-CA-C	5.63	118.58	109.40
36	1	282	G	C2'-C3'-O3'	5.62	122.14	113.70
48	m1	137	ARG	N-CA-C	-5.62	106.26	113.01
11	s9	143	ILE	CA-C-N	5.62	126.86	119.84
11	s9	143	ILE	C-N-CA	5.62	126.86	119.84
48	m1	31	THR	N-CA-C	-5.62	105.24	111.36
70	o4	71	THR	N-CA-C	5.61	116.48	108.74
3	S1	205	PHE	CA-C-N	5.60	126.84	119.84
3	S1	205	PHE	C-N-CA	5.60	126.84	119.84
7	s5	99	MET	N-CA-C	5.59	116.46	108.74
31	D9	14	TYR	N-CA-C	5.58	115.49	108.45
40	l3	278	ILE	N-CA-C	5.57	117.20	109.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
76	Q0	79	GLU	CA-C-N	5.57	126.80	119.84
76	Q0	79	GLU	C-N-CA	5.57	126.80	119.84
14	C2	130	THR	CB-CA-C	-5.56	109.18	115.79
54	M8	170	ARG	N-CA-C	-5.56	103.15	110.43
3	s1	232	HIS	CB-CA-C	-5.56	109.07	117.07
41	l4	340	GLY	N-CA-C	-5.56	100.01	113.18
10	s8	116	HIS	N-CA-C	-5.55	106.67	113.50
57	N1	145	GLY	N-CA-C	-5.54	107.98	115.36
39	l2	171	GLY	N-CA-C	-5.54	107.55	115.64
9	s7	62	VAL	CA-C-N	5.54	126.76	119.84
9	s7	62	VAL	C-N-CA	5.54	126.76	119.84
69	O3	92	LYS	N-CA-C	-5.53	106.50	113.20
31	D9	9	SER	N-CA-C	5.51	116.52	108.14
56	N0	152	LEU	CA-C-N	5.51	125.81	119.92
56	N0	152	LEU	C-N-CA	5.51	125.81	119.92
10	S8	32	GLN	CA-C-N	5.50	125.51	119.90
10	S8	32	GLN	C-N-CA	5.50	125.51	119.90
33	E1	123	ASN	CA-C-N	5.50	125.33	119.28
33	E1	123	ASN	C-N-CA	5.50	125.33	119.28
39	L2	207	VAL	CB-CA-C	-5.50	104.02	112.05
23	d1	78	LEU	N-CA-C	-5.49	107.59	114.56
47	m0	96	VAL	N-CA-C	5.49	116.00	107.99
57	N1	11	THR	N-CA-C	5.48	118.76	112.57
11	s9	66	ASP	CA-C-N	5.47	126.68	119.84
11	s9	66	ASP	C-N-CA	5.47	126.68	119.84
39	l2	232	GLY	N-CA-C	-5.47	107.72	113.58
17	C5	52	LYS	CA-C-N	-5.47	113.24	120.96
17	C5	52	LYS	C-N-CA	-5.47	113.24	120.96
47	M0	195	ALA	N-CA-C	-5.47	106.61	113.72
46	L9	101	VAL	N-CA-C	5.47	115.93	107.78
54	M8	18	ALA	CA-C-N	-5.47	114.15	119.78
54	M8	18	ALA	C-N-CA	-5.47	114.15	119.78
52	M6	110	PRO	CA-C-N	5.46	126.67	119.84
52	M6	110	PRO	C-N-CA	5.46	126.67	119.84
49	M3	75	PHE	N-CA-C	5.46	120.05	113.17
41	l4	284	SER	N-CA-C	-5.46	106.29	113.17
4	S2	172	ALA	CA-C-N	5.45	125.45	119.89
4	S2	172	ALA	C-N-CA	5.45	125.45	119.89
77	Q1	18	ARG	N-CA-C	-5.45	105.42	111.36
16	C4	136	ARG	N-CA-C	5.45	117.29	108.41
6	s4	121	TYR	N-CA-C	5.45	115.47	108.34
57	N1	21	LYS	N-CA-C	5.44	116.83	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	5	2874	G	P-O3'-C3'	5.44	128.35	120.20
43	l6	53	VAL	N-CA-C	5.43	115.67	107.80
26	d4	60	PHE	N-CA-C	5.43	117.85	107.75
59	n3	20	GLY	N-CA-C	-5.42	107.54	114.37
51	m5	153	ASP	CA-C-N	-5.41	113.45	119.19
51	m5	153	ASP	C-N-CA	-5.41	113.45	119.19
4	s2	233	GLN	CA-C-N	-5.41	113.08	119.84
4	s2	233	GLN	C-N-CA	-5.41	113.08	119.84
36	1	3319	U	P-O3'-C3'	5.41	128.31	120.20
67	O1	49	VAL	N-CA-C	5.41	115.87	107.28
39	l2	25	GLY	N-CA-C	-5.40	105.36	112.81
63	n7	103	GLN	CA-C-N	5.40	126.59	119.84
63	n7	103	GLN	C-N-CA	5.40	126.59	119.84
45	L8	28	HIS	N-CA-C	5.39	118.23	108.69
61	n5	107	VAL	N-CA-C	5.39	115.88	108.12
2	S0	141	ILE	N-CA-C	5.38	113.20	107.76
48	M1	7	ASN	CA-C-N	5.38	126.57	119.84
48	M1	7	ASN	C-N-CA	5.38	126.57	119.84
1	2	1761	U	C2'-C3'-O3'	5.38	117.56	109.50
25	d3	45	GLY	N-CA-C	-5.38	100.44	113.18
45	L8	72	PRO	O-C-N	5.37	123.78	121.31
9	s7	111	LYS	CB-CA-C	-5.37	109.40	115.79
36	1	1484	U	C2'-C3'-O3'	5.35	117.53	109.50
64	N8	131	SER	N-CA-C	-5.34	103.48	110.53
7	S5	66	GLN	CA-C-N	5.34	125.80	120.52
7	S5	66	GLN	C-N-CA	5.34	125.80	120.52
67	O1	23	VAL	N-CA-C	5.33	117.13	109.51
40	l3	327	CYS	N-CA-C	5.33	116.75	109.18
36	1	65	A	C2'-C3'-O3'	5.32	117.48	109.50
22	d0	120	SER	CB-CA-C	-5.32	110.00	117.23
44	l7	192	GLY	CA-C-N	5.31	124.95	119.05
44	l7	192	GLY	C-N-CA	5.31	124.95	119.05
32	e0	48	THR	CA-C-O	5.30	121.02	117.94
5	s3	145	ALA	CB-CA-C	-5.30	110.49	116.63
33	E1	147	VAL	N-CA-C	5.29	116.41	109.58
3	s1	114	VAL	N-CA-C	5.29	111.87	106.21
53	M7	82	ARG	N-CA-C	5.29	115.26	108.34
2	s0	140	ASN	CA-C-N	-5.29	118.78	122.59
2	s0	140	ASN	C-N-CA	-5.29	118.78	122.59
18	c6	63	ILE	N-CA-C	5.29	115.51	108.27
8	S6	60	GLY	N-CA-C	5.27	120.96	114.69
57	N1	147	VAL	CA-C-N	5.27	126.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	N1	147	VAL	C-N-CA	5.27	126.42	119.84
59	n3	129	VAL	N-CA-C	-5.27	105.26	111.00
50	M4	15	VAL	N-CA-C	-5.26	101.94	108.89
28	D6	97	PRO	N-CA-C	5.26	117.12	110.70
40	l3	319	ASN	N-CA-C	5.26	117.26	109.69
9	s7	31	SER	N-CA-C	5.25	120.70	113.77
64	N8	99	ALA	CA-C-N	5.25	125.25	119.90
64	N8	99	ALA	C-N-CA	5.25	125.25	119.90
43	l6	37	GLY	N-CA-C	-5.25	107.87	115.27
61	n5	65	GLN	CA-C-N	-5.24	114.84	120.03
61	n5	65	GLN	C-N-CA	-5.24	114.84	120.03
60	n4	84	GLY	N-CA-C	-5.24	107.89	115.27
11	s9	159	ALA	CA-C-N	5.24	125.04	119.28
11	s9	159	ALA	C-N-CA	5.24	125.04	119.28
44	l7	161	VAL	N-CA-C	5.24	113.63	107.77
45	l8	41	GLN	CA-C-N	5.24	125.21	120.03
45	l8	41	GLN	C-N-CA	5.24	125.21	120.03
41	L4	57	GLY	N-CA-C	-5.23	107.45	114.25
45	L8	158	ASP	CA-C-N	-5.23	113.30	119.84
45	L8	158	ASP	C-N-CA	-5.23	113.30	119.84
78	q2	17	CYS	CA-CB-SG	5.22	126.42	114.40
36	1	2513	U	C4'-C3'-O3'	5.22	117.23	109.40
4	s2	150	GLN	CA-C-N	5.22	126.36	119.84
4	s2	150	GLN	C-N-CA	5.22	126.36	119.84
13	C1	114	ALA	N-CA-C	-5.21	106.95	113.72
7	s5	29	ILE	CA-C-N	5.20	125.94	120.11
7	s5	29	ILE	C-N-CA	5.20	125.94	120.11
42	l5	23	ARG	N-CA-C	-5.20	105.06	111.40
3	s1	232	HIS	CA-C-O	5.20	120.96	117.94
52	m6	135	TYR	N-CA-C	5.20	115.91	108.74
61	n5	51	VAL	CA-C-N	5.20	126.33	119.84
61	n5	51	VAL	C-N-CA	5.20	126.33	119.84
32	e0	48	THR	CB-CA-C	-5.19	109.59	117.07
39	l2	123	ARG	N-CA-C	5.19	118.88	112.24
33	e1	104	SER	N-CA-C	-5.19	106.90	113.18
2	S0	193	GLN	CA-C-N	5.19	126.32	119.84
2	S0	193	GLN	C-N-CA	5.19	126.32	119.84
58	N2	21	SER	CA-C-N	-5.18	113.36	119.84
58	N2	21	SER	C-N-CA	-5.18	113.36	119.84
42	l5	126	GLU	N-CA-C	-5.17	106.28	112.59
44	l7	177	GLY	N-CA-C	-5.17	103.22	112.22
1	6	1097	U	P-O3'-C3'	5.17	127.95	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	221	ASN	CA-C-N	-5.17	118.87	122.59
41	L4	221	ASN	C-N-CA	-5.17	118.87	122.59
22	D0	54	GLY	CA-C-N	5.16	126.29	119.84
22	D0	54	GLY	C-N-CA	5.16	126.29	119.84
13	c1	5	LEU	N-CA-C	5.16	116.59	110.19
7	s5	83	ARG	N-CA-C	-5.16	106.25	112.54
70	o4	11	ASN	CA-C-N	5.16	126.29	119.84
70	o4	11	ASN	C-N-CA	5.16	126.29	119.84
52	m6	9	ILE	N-CA-C	5.16	115.00	107.37
62	n6	68	GLY	N-CA-C	5.16	118.00	110.63
24	D2	55	ASP	N-CA-C	-5.15	103.88	110.53
63	N7	40	HIS	N-CA-C	5.15	115.81	107.32
63	n7	96	VAL	N-CA-C	5.14	111.71	106.21
40	L3	82	PRO	O-C-N	5.14	123.57	121.15
52	m6	40	GLU	N-CA-C	-5.14	105.73	112.41
52	M6	130	LYS	N-CA-C	-5.13	103.32	109.83
13	c1	36	LYS	N-CA-C	5.13	115.30	108.38
79	q3	30	GLU	N-CA-C	-5.13	105.77	111.36
25	D3	83	VAL	N-CA-C	5.12	115.42	107.78
64	N8	3	SER	N-CA-C	5.12	117.52	111.33
28	d6	11	ASN	N-CA-C	5.11	116.60	108.67
58	N2	93	ILE	N-CA-C	5.11	115.33	107.77
6	S4	4	GLY	CA-C-N	5.11	125.26	119.90
6	S4	4	GLY	C-N-CA	5.11	125.26	119.90
48	m1	127	PHE	CA-C-N	-5.11	115.68	122.72
48	m1	127	PHE	C-N-CA	-5.11	115.68	122.72
22	d0	31	VAL	N-CA-C	5.10	115.54	110.23
6	S4	28	ALA	CA-C-N	-5.09	114.38	120.13
6	S4	28	ALA	C-N-CA	-5.09	114.38	120.13
42	L5	43	LYS	N-CA-C	-5.08	105.98	113.61
10	s8	54	LYS	N-CA-C	-5.08	102.94	110.46
27	d5	90	LYS	CA-C-N	5.08	125.29	120.31
27	d5	90	LYS	C-N-CA	5.08	125.29	120.31
65	n9	22	LYS	CB-CA-C	-5.08	109.75	115.79
18	C6	114	ARG	N-CA-C	-5.07	99.99	110.80
3	s1	22	ASP	CA-C-N	5.07	124.86	119.28
3	s1	22	ASP	C-N-CA	5.07	124.86	119.28
11	S9	138	LYS	N-CA-C	-5.06	106.94	113.02
51	M5	106	VAL	N-CA-C	-5.06	105.91	110.82
41	L4	139	GLY	N-CA-C	-5.05	101.20	113.18
39	L2	209	HIS	N-CA-C	5.05	114.62	108.11
43	L6	93	VAL	N-CA-C	-5.05	106.53	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	c5	49	MET	CB-CA-C	-5.04	110.74	116.54
40	l3	309	GLY	N-CA-C	-5.04	108.69	114.69
40	l3	310	GLY	CA-C-O	-5.04	118.75	122.23
34	SR	272	ASP	N-CA-C	5.03	115.95	108.60
10	s8	84	HIS	CA-C-N	5.03	124.52	119.19
10	s8	84	HIS	C-N-CA	5.03	124.52	119.19
66	o0	48	THR	CA-C-N	5.03	125.02	119.89
66	o0	48	THR	C-N-CA	5.03	125.02	119.89
66	O0	32	LYS	N-CA-C	-5.02	105.81	111.28
1	2	1370	U	P-O3'-C3'	5.02	127.73	120.20
2	s0	151	SER	CA-C-N	5.01	126.10	119.84
2	s0	151	SER	C-N-CA	5.01	126.10	119.84
47	m0	53	VAL	N-CA-C	5.01	115.52	108.36
33	e1	87	THR	CA-C-N	-5.00	114.80	119.85
33	e1	87	THR	C-N-CA	-5.00	114.80	119.85
28	D6	96	ALA	CA-C-N	5.00	125.53	120.38
28	D6	96	ALA	C-N-CA	5.00	125.53	120.38

There are no chirality outliers.

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
19	C7	85	VAL	Peptide
27	D5	94	LYS	Peptide
28	D6	10	ARG	Peptide
52	M6	110	PRO	Peptide
56	N0	166	LYS	Peptide
56	N0	22	PRO	Peptide
9	S7	131	PHE	Peptide
17	c5	52	LYS	Peptide
26	d4	29	HIS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
59	n3	41	GLY	Peptide
64	n8	66	ALA	Peptide
79	q3	41	PHE	Peptide
7	s5	44	ASN	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19104	891	1
1	6	38260	0	19251	825	0
2	S0	1577	0	1567	78	0
2	s0	1612	0	1623	80	0
3	S1	1709	0	1784	97	0
3	s1	1722	0	1793	66	0
4	S2	1635	0	1723	61	0
4	s2	1635	0	1723	58	0
5	S3	1734	0	1817	54	0
5	s3	1734	0	1817	52	0
6	S4	2068	0	2154	85	0
6	s4	2068	0	2154	83	0
7	S5	1609	0	1675	79	0
7	s5	1609	0	1675	75	0
8	S6	1799	0	1879	85	0
8	s6	1755	0	1845	57	0
9	S7	1481	0	1572	62	0
9	s7	1492	0	1581	52	0
10	S8	1489	0	1525	60	0
10	s8	1489	0	1525	49	0
11	S9	1494	0	1573	66	0
11	s9	1494	0	1573	70	0
12	C0	773	0	716	31	0
12	c0	762	0	691	35	0
13	C1	1214	0	1245	40	0
13	c1	1169	0	1235	39	0
14	C2	890	0	887	37	0
14	c2	890	0	887	22	0
15	C3	1192	0	1255	40	0
15	c3	1192	0	1255	39	0
16	C4	891	0	883	40	0
16	c4	949	0	985	47	0
17	C5	977	0	1002	29	0
17	c5	1039	0	1050	51	0
18	C6	1105	0	1166	55	0
18	c6	1111	0	1171	58	0
19	C7	926	0	930	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	c7	944	0	1006	45	0
20	C8	1192	0	1222	46	0
20	c8	1192	0	1222	62	0
21	C9	1112	0	1124	43	0
21	c9	1112	0	1124	50	0
22	D0	855	0	917	40	0
22	d0	882	0	939	31	0
23	D1	684	0	672	30	0
23	d1	684	0	672	30	0
24	D2	1021	0	1060	35	0
24	d2	1021	0	1060	38	0
25	D3	1121	0	1196	56	0
25	d3	1121	0	1196	41	0
26	D4	1073	0	1132	33	0
26	d4	1073	0	1132	41	0
27	D5	563	0	603	30	0
27	d5	558	0	598	28	0
28	D6	769	0	814	47	0
28	d6	769	0	814	39	0
29	D7	610	0	631	17	0
29	d7	610	0	631	17	0
30	D8	497	0	535	21	0
30	d8	497	0	535	22	0
31	D9	442	0	428	17	0
31	d9	443	0	432	11	0
32	E0	475	0	525	17	0
32	e0	491	0	542	31	0
33	E1	566	0	602	27	0
33	e1	608	0	657	26	0
34	SR	2437	0	2386	78	0
34	sR	2445	0	2401	92	0
35	SM	1104	0	971	45	0
35	sM	680	0	539	27	0
36	1	67355	0	33846	1298	1
36	5	67377	0	33857	1264	1
37	3	2579	0	1304	55	0
37	7	2579	0	1304	61	0
38	4	3353	0	1695	70	0
38	8	3353	0	1695	85	0
39	L2	1914	0	1981	75	0
39	l2	1918	0	1987	90	0
40	L3	3067	0	3137	115	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	l3	3073	0	3160	119	0
41	L4	2748	0	2859	121	0
41	l4	2749	0	2863	122	0
42	L5	2375	0	2325	104	0
42	l5	2359	0	2311	100	0
43	L6	1239	0	1326	28	0
43	l6	1248	0	1339	34	0
44	L7	1784	0	1862	67	0
44	l7	1791	0	1869	55	0
45	L8	1804	0	1877	74	0
45	l8	1763	0	1819	61	0
46	L9	1518	0	1587	77	0
46	l9	1518	0	1587	64	0
47	M0	1705	0	1736	80	0
47	m0	1733	0	1776	65	0
48	M1	1353	0	1383	55	0
48	m1	1353	0	1383	51	0
49	M3	1543	0	1608	61	0
49	m3	1548	0	1613	71	0
50	M4	1053	0	1149	37	0
50	m4	1059	0	1154	37	0
51	M5	1720	0	1779	73	0
51	m5	1720	0	1779	66	0
52	M6	1555	0	1659	49	0
52	m6	1555	0	1659	57	0
53	M7	1420	0	1437	63	0
53	m7	1227	0	1236	57	0
54	M8	1441	0	1543	57	0
54	m8	1441	0	1543	57	0
55	M9	1521	0	1617	44	0
55	m9	1521	0	1617	29	0
56	N0	1445	0	1487	51	0
56	n0	1445	0	1487	46	0
57	N1	1276	0	1323	45	0
57	n1	1276	0	1323	49	0
58	N2	796	0	812	18	0
58	n2	778	0	791	28	0
59	N3	1003	0	1048	34	0
59	n3	1003	0	1048	36	0
60	N4	699	0	640	14	0
60	n4	1089	0	1183	36	0
61	N5	964	0	1025	38	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	n5	959	0	1023	31	0
62	N6	993	0	1081	36	0
62	n6	993	0	1081	40	0
63	N7	1092	0	1155	44	0
63	n7	1092	0	1155	42	0
64	N8	1173	0	1215	57	0
64	n8	1173	0	1215	70	0
65	N9	462	0	491	16	0
65	n9	462	0	491	21	0
66	O0	743	0	797	32	0
66	o0	767	0	816	32	0
67	O1	876	0	912	25	0
67	o1	890	0	938	24	0
68	O2	1020	0	1090	38	0
68	o2	1020	0	1090	39	0
69	O3	850	0	880	26	0
69	o3	850	0	880	24	0
70	O4	880	0	945	40	0
70	o4	881	0	949	37	0
71	O5	969	0	1078	37	0
71	o5	969	0	1078	44	0
72	O6	771	0	849	43	0
72	o6	771	0	849	32	0
73	O7	681	0	683	26	0
73	o7	681	0	683	22	0
74	O8	612	0	682	25	0
74	o8	612	0	682	16	0
75	O9	436	0	475	21	0
75	o9	436	0	475	18	0
76	Q0	417	0	455	19	0
76	q0	417	0	455	8	0
77	Q1	233	0	284	9	0
77	q1	233	0	284	9	0
78	Q2	847	0	914	26	0
78	q2	847	0	914	28	0
79	Q3	694	0	734	36	0
79	q3	694	0	734	30	0
80	m2	750	0	176	9	0
81	p0	1077	0	1041	34	0
82	p1	235	0	50	4	0
83	p2	230	0	50	1	0
84	1	330	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	2	82	0	0	0	0
84	3	10	0	0	0	0
84	4	14	0	0	0	0
84	5	349	0	0	0	0
84	6	110	0	0	0	0
84	7	10	0	0	0	0
84	8	10	0	0	0	0
84	D9	1	0	0	0	0
84	L2	2	0	0	0	0
84	L3	1	0	0	0	0
84	L6	1	0	0	0	0
84	L7	1	0	0	0	0
84	M0	1	0	0	0	0
84	M3	1	0	0	0	0
84	M5	1	0	0	0	0
84	M6	1	0	0	0	0
84	M7	4	0	0	0	0
84	N3	1	0	0	0	0
84	N8	2	0	0	0	0
84	O2	1	0	0	0	0
84	O3	1	0	0	0	0
84	O4	2	0	0	0	0
84	O7	2	0	0	0	0
84	Q2	1	0	0	0	0
84	S4	1	0	0	0	0
84	SM	1	0	0	0	0
84	c1	1	0	0	0	0
84	d6	1	0	0	0	0
84	l2	3	0	0	0	0
84	l3	5	0	0	0	0
84	l6	1	0	0	0	0
84	l7	1	0	0	0	0
84	l8	1	0	0	0	0
84	l9	1	0	0	0	0
84	m1	1	0	0	0	0
84	m5	3	0	0	0	0
84	m6	1	0	0	0	0
84	m7	3	0	0	0	0
84	n0	2	0	0	0	0
84	n3	1	0	0	0	0
84	n6	2	0	0	0	0
84	n8	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	n9	1	0	0	0	0
84	o1	1	0	0	0	0
84	o3	1	0	0	0	0
84	o4	1	0	0	0	0
84	q0	1	0	0	0	0
84	q1	1	0	0	0	0
84	s8	1	0	0	0	0
84	sM	2	0	0	0	0
85	1	2191	0	0	228	0
85	2	959	0	0	120	0
85	3	70	0	0	5	0
85	4	119	0	0	10	0
85	5	2303	0	0	247	0
85	6	1050	0	0	107	0
85	7	77	0	0	7	0
85	8	105	0	0	15	0
85	C3	7	0	0	1	0
85	C5	7	0	0	1	0
85	C8	7	0	0	0	1
85	D9	7	0	0	3	0
85	L3	14	0	0	2	0
85	L4	7	0	0	2	0
85	M0	7	0	0	0	0
85	M5	7	0	0	0	0
85	M6	7	0	0	0	0
85	M7	7	0	0	1	0
85	M9	7	0	0	1	0
85	N1	7	0	0	0	0
85	N8	7	0	0	0	0
85	N9	7	0	0	0	0
85	O3	7	0	0	1	0
85	O7	14	0	0	1	0
85	O9	7	0	0	2	0
85	Q2	7	0	0	0	0
85	S6	7	0	0	1	0
85	S8	7	0	0	1	0
85	SR	7	0	0	0	0
85	c3	7	0	0	2	0
85	c5	7	0	0	2	0
85	c8	7	0	0	0	0
85	d4	7	0	0	1	0
85	l3	21	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	l4	14	0	0	4	0
85	l5	14	0	0	3	0
85	l9	7	0	0	0	0
85	m0	14	0	0	2	0
85	m1	7	0	0	1	0
85	m5	14	0	0	0	0
85	m7	7	0	0	1	0
85	n3	14	0	0	1	0
85	n9	7	0	0	1	0
85	o3	7	0	0	1	0
85	o7	7	0	0	1	0
85	o9	7	0	0	0	0
85	q2	7	0	0	1	0
85	s4	7	0	0	1	0
85	s8	7	0	0	0	0
85	s9	7	0	0	2	0
85	sR	7	0	0	0	0
86	D6	1	0	0	0	0
86	D7	1	0	0	0	0
86	D9	1	0	0	0	0
86	E1	1	0	0	0	0
86	O7	1	0	0	0	0
86	Q0	1	0	0	0	0
86	Q2	1	0	0	0	0
86	Q3	1	0	0	0	0
86	d6	1	0	0	0	0
86	d7	1	0	0	0	0
86	d9	1	0	0	0	0
86	e1	1	0	0	0	0
86	o7	1	0	0	0	0
86	q0	1	0	0	0	0
86	q2	1	0	0	0	0
86	q3	1	0	0	0	0
87	1	19	0	19	16	0
All	All	410912	0	297885	10052	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 14.

All (10052) 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)
36:1:1149:G:N7	85:1:4017:OHX:N6	2.05	1.04
1:6:1537:C:N3	85:6:2121:OHX:N5	2.06	1.03
36:1:1466:G:O6	85:1:3739:OHX:N4	1.93	1.01
36:1:1481:A:O2'	36:1:1858:A:N3	1.91	1.01
47:m0:38:LYS:HG2	47:m0:41:ALA:HB2	1.43	1.00
36:5:2361:A:OP2	85:5:4007:OHX:N2	1.93	1.00
49:m3:46:ILE:HG22	49:m3:49:ARG:HB2	1.47	0.97
36:5:3214:U:OP2	50:m4:128:ARG:NH2	1.99	0.95
1:2:830:U:HO2'	1:2:831:U:H6	1.08	0.95
36:5:2273:G:O6	85:5:4035:OHX:N5	2.00	0.95
36:1:2940:A:N7	40:L3:2:SER:N	2.14	0.94
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.50	0.94
59:N3:74:MET:HE3	59:N3:102:ILE:HB	1.50	0.94
36:1:1951:C:H42	36:1:2095:G:H1	1.16	0.93
1:6:755:A:HO2'	1:6:756:A:H8	1.10	0.93
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.01	0.93
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.02	0.93
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.02	0.92
1:2:701:U:H3	1:2:737:A:H61	1.16	0.92
36:1:2208:A:N1	85:1:3904:OHX:N2	2.17	0.92
63:N7:83:THR:HG23	63:N7:85:TYR:H	1.34	0.92
36:5:3194:C:O2	36:5:3197:G:N2	2.03	0.91
36:5:2836:C:H5	36:5:2852:C:H42	1.19	0.91
36:5:2854:U:OP2	47:m0:3:ARG:NH2	2.05	0.90
36:5:2234:G:O6	85:5:3806:OHX:N4	2.04	0.90
40:l3:185:GLY:O	40:l3:191:LYS:NZ	2.05	0.90
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.34	0.90
36:5:1239:C:H42	36:5:1249:G:H1	1.18	0.90
33:E1:141:CYS:SG	33:E1:144:CYS:HB2	2.11	0.89
40:l3:41:VAL:HA	40:l3:185:GLY:HA3	1.55	0.89
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.55	0.88
1:2:491:C:H42	1:2:496:G:H1	1.20	0.88
36:5:437:G:H1	36:5:622:A:H61	1.20	0.88
36:5:31:C:OP2	51:m5:188:ARG:NH2	2.06	0.88
36:5:801:A:O2'	85:5:3872:OHX:N1	2.06	0.88
40:l3:81:THR:HG22	40:l3:321:PHE:HA	1.56	0.88
36:1:781:G:N7	85:1:3801:OHX:N5	2.22	0.88
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.06	0.88
36:5:2284:C:O2	85:5:4016:OHX:N1	2.07	0.88
26:d4:29:HIS:HB3	26:d4:32:ARG:HB2	1.56	0.88
85:2:1996:OHX:N2	10:S8:17:LYS:O	2.07	0.87
36:5:2988:C:OP1	52:m6:68:ARG:NH1	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.56	0.87
85:5:3748:OHX:N6	38:8:16:G:O6	2.08	0.86
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.08	0.86
36:5:2853:A:H5'	47:m0:63:GLU:HB2	1.57	0.86
9:S7:50:ASP:HB3	9:S7:56:LYS:HG2	1.57	0.86
11:s9:8:TYR:O	85:s9:201:OHX:N4	2.07	0.86
42:l5:134:ALA:HB2	42:l5:141:PRO:HD3	1.57	0.86
36:5:1213:G:H4'	56:n0:90:MET:HG3	1.57	0.86
2:S0:52:LYS:HD3	23:D1:82:VAL:HA	1.56	0.86
87:1:3401:ANM:HN1	87:1:3401:ANM:H13	1.39	0.86
1:6:448:C:OP2	6:s4:49:ARG:NH1	2.09	0.86
34:sR:42:LEU:HD21	34:sR:82:SER:HB3	1.56	0.86
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.55	0.86
1:6:1429:G:H1'	22:d0:74:GLU:HG2	1.56	0.86
36:1:599:C:OP1	41:L4:332:LYS:NZ	2.09	0.85
73:O7:65:ARG:HG3	73:O7:65:ARG:HH11	1.41	0.85
36:5:1481:A:O2'	36:5:1858:A:N3	2.08	0.85
1:2:127:G:N7	8:S6:202:ARG:NH2	2.25	0.85
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.57	0.85
40:l3:169:THR:HG23	40:l3:171:LEU:H	1.42	0.85
1:2:1595:U:H3	1:2:1600:A:H2	1.24	0.85
1:2:715:U:H3	1:2:723:G:H1	1.24	0.85
36:5:213:A:OP1	62:n6:2:ALA:N	2.09	0.85
2:s0:139:VAL:HG23	4:s2:62:PRO:HG3	1.56	0.85
36:1:276:U:O2	51:M5:93:LYS:NZ	2.10	0.85
9:s7:55:LYS:HE2	9:s7:87:ASP:HA	1.59	0.85
38:4:124:G:H1	38:4:129:C:H42	1.20	0.84
1:2:820:U:H2'	1:2:821:U:H4'	1.58	0.84
36:1:2248:C:OP2	85:1:3742:OHX:N6	2.10	0.84
36:1:272:G:OP2	85:1:3891:OHX:N3	2.10	0.84
36:1:3344:A:H2	36:1:3361:G:H21	1.21	0.84
36:5:72:C:H5'	49:m3:63:VAL:HG22	1.57	0.84
36:5:837:A:OP2	79:q3:4:ARG:NH1	2.09	0.84
3:S1:181:LEU:O	3:S1:184:LEU:N	2.09	0.84
16:c4:20:TYR:HB3	16:c4:27:PHE:HB2	1.59	0.84
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.58	0.84
19:C7:27:ASP:O	19:C7:31:ASN:ND2	2.10	0.84
36:5:3317:U:O2'	85:5:3976:OHX:N6	2.11	0.84
34:sR:149:ASP:HB2	34:sR:175:ASP:HB3	1.60	0.84
1:2:1203:A:OP2	85:2:2070:OHX:N5	2.10	0.84
36:5:1639:C:OP2	70:o4:74:ARG:NH2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:165:SER:O	49:M3:167:PHE:N	2.10	0.83
36:1:1898:G:OP2	85:1:3791:OHX:N4	2.12	0.83
36:5:3153:U:H4'	36:5:3154:C:H5'	1.59	0.83
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.11	0.83
20:c8:44:ASN:OD1	20:c8:48:LYS:NZ	2.10	0.83
1:6:1636:C:H4'	1:6:1637:C:H5'	1.59	0.83
69:o3:14:LEU:HD11	69:o3:31:LYS:HB2	1.60	0.83
29:d7:23:THR:HG21	29:d7:29:ARG:HH22	1.44	0.83
71:o5:78:LYS:HA	71:o5:81:ARG:HD3	1.61	0.83
1:2:1046:G:OP1	3:S1:157:GLN:NE2	2.11	0.83
1:2:1745:G:O6	85:2:2045:OHX:N6	2.11	0.83
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.43	0.83
2:s0:119:ARG:HE	4:s2:240:LEU:HD23	1.43	0.83
36:5:566:G:N7	85:5:3968:OHX:N5	2.26	0.83
36:5:2444:C:H42	36:5:2503:G:H1	1.26	0.83
36:5:3074:G:OP1	85:5:3957:OHX:N4	2.11	0.83
36:5:2537:U:O2'	36:5:2538:U:O4'	1.97	0.82
1:2:700:C:H42	1:2:738:G:H1	1.24	0.82
55:M9:101:VAL:O	55:M9:104:ARG:NH1	2.12	0.82
85:2:1999:OHX:N1	25:D3:64:PRO:O	2.13	0.82
6:s4:117:GLU:O	6:s4:119:ALA:N	2.12	0.82
18:c6:82:ARG:HH12	18:c6:114:ARG:HB2	1.43	0.82
36:1:1119:C:OP2	85:1:3814:OHX:N1	2.13	0.82
50:m4:48:GLY:HA3	50:m4:53:VAL:HG13	1.60	0.82
1:2:1173:C:OP1	20:C8:132:ARG:NH1	2.12	0.82
36:1:735:A:H2'	36:1:736:A:H8	1.45	0.82
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.12	0.82
36:1:600:G:N7	85:1:3956:OHX:N1	2.28	0.82
36:1:1222:G:HO2'	36:1:1285:G:H1	0.82	0.82
1:2:1588:G:H1	1:2:1608:U:H3	1.22	0.82
21:C9:52:GLY:O	21:C9:54:PHE:N	2.12	0.82
45:L8:84:ARG:HE	45:L8:84:ARG:H	1.24	0.82
85:8:212:OHX:N6	73:o7:88:ALA:O	2.13	0.82
36:1:2356:A:H61	36:1:2983:C:H5	1.24	0.82
36:1:2836:C:H5	36:1:2852:C:H42	1.25	0.82
87:1:3401:ANM:H63	87:1:3401:ANM:C15	2.10	0.82
40:l3:76:VAL:HG21	40:l3:323:MET:HE3	1.61	0.82
1:2:1542:G:H22	1:2:1568:C:H1'	1.45	0.81
85:1:3940:OHX:N1	72:O6:28:TYR:O	2.13	0.81
42:L5:60:ILE:HB	42:L5:80:SER:HB3	1.62	0.81
1:6:475:A:OP2	11:s9:126:ARG:NH1	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:171:LYS:NZ	45:l8:223:ALA:O	2.13	0.81
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.13	0.81
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.14	0.81
50:M4:60:LEU:HD13	56:N0:152:LEU:HD11	1.60	0.81
87:1:3401:ANM:C6	87:1:3401:ANM:H151	2.10	0.81
1:6:1588:G:H1	1:6:1608:U:H3	1.28	0.81
36:5:652:G:OP2	85:5:4007:OHX:N3	2.13	0.81
38:8:79:A:H3'	38:8:80:A:C8	2.15	0.81
72:o6:9:ILE:HA	72:o6:13:LYS:HD3	1.61	0.81
71:O5:85:THR:HG22	71:O5:88:LEU:H	1.45	0.81
36:5:1565:G:N1	36:5:1574:C:N3	2.28	0.81
36:1:1374:G:O6	64:N8:10:LYS:NZ	2.13	0.81
38:4:16:G:OP1	85:4:227:OHX:N4	2.12	0.81
39:L2:27:ALA:O	39:L2:128:ARG:NH2	2.13	0.81
1:6:1097:U:H4'	1:6:1098:U:H5'	1.60	0.81
36:5:3230:G:H4'	50:m4:132:LYS:HD3	1.62	0.81
36:5:3275:U:OP2	69:o3:68:TRP:NE1	2.14	0.81
1:2:1202:A:OP1	85:2:2070:OHX:N1	2.13	0.81
35:SM:32:SER:OG	36:1:2666:C:O2'	1.99	0.81
36:5:412:G:OP1	53:m7:62:ARG:NH1	2.14	0.81
36:5:1555:U:O4	36:5:1557:A:N6	2.13	0.81
53:m7:64:ASN:O	53:m7:80:LYS:NZ	2.13	0.81
64:N8:96:LYS:O	64:N8:98:THR:N	2.13	0.81
24:D2:104:LEU:HA	24:D2:126:LEU:HB2	1.63	0.81
13:C1:5:LEU:HB3	13:C1:6:THR:HG23	1.64	0.80
21:c9:37:VAL:HG11	21:c9:100:ILE:HD11	1.63	0.80
9:S7:131:PHE:O	9:S7:133:THR:N	2.13	0.80
36:5:1443:G:O6	85:5:3852:OHX:N5	2.13	0.80
36:5:3182:G:OP1	52:m6:160:ARG:NH2	2.14	0.80
47:m0:86:HIS:HB3	47:m0:139:ARG:HG2	1.60	0.80
1:6:1665:U:O4	85:6:2085:OHX:N6	2.14	0.80
1:2:800:U:O4	85:2:2013:OHX:N5	2.14	0.80
36:1:627:U:O4	85:1:3860:OHX:N5	2.15	0.80
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.63	0.80
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.62	0.80
1:6:754:A:N6	1:6:793:A:N7	2.29	0.80
39:l2:189:TYR:HA	39:l2:192:LYS:HG3	1.63	0.80
1:2:434:G:N7	85:2:2007:OHX:N4	2.29	0.80
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.15	0.80
1:6:1112:G:OP1	77:q1:6:ARG:NH2	2.15	0.80
39:L2:117:GLU:OE2	39:L2:121:GLY:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d0:69:LYS:HE2	22:d0:80:GLU:HG3	1.63	0.80
56:n0:13:ARG:HH11	56:n0:13:ARG:HG3	1.45	0.80
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.62	0.80
19:C7:66:VAL:HB	19:C7:69:ILE:HD11	1.64	0.80
36:1:2875:U:H3	36:1:2952:G:H1	1.30	0.80
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.14	0.80
2:s0:79:ARG:NH1	2:s0:164:ASN:O	2.15	0.80
36:5:1898:G:OP2	85:5:3789:OHX:N5	2.15	0.80
85:5:3846:OHX:N6	44:l7:217:PRO:O	2.15	0.80
1:2:992:A:OP1	85:2:1995:OHX:N2	2.14	0.80
5:S3:177:MET:HE2	5:S3:178:ARG:HH12	1.47	0.80
54:M8:71:LEU:HD13	54:M8:99:THR:HG21	1.64	0.79
36:1:1171:G:N7	85:1:3818:OHX:N2	2.30	0.79
38:4:155:A:OP1	45:L8:185:ARG:NH2	2.15	0.79
1:2:1557:U:OP2	1:2:1559:A:O2'	2.00	0.79
47:m0:205:SER:OG	47:m0:208:ASN:OD1	2.00	0.79
36:5:1170:A:OP2	85:5:3846:OHX:N4	2.15	0.79
36:5:1759:C:N4	36:5:1766:G:O6	2.16	0.79
47:m0:216:TYR:O	85:m0:301:OHX:N4	2.15	0.79
57:n1:14:MET:HE1	57:n1:55:LYS:HB2	1.62	0.79
40:L3:287:LYS:HA	40:L3:320:ASP:HB3	1.64	0.79
36:5:1493:G:O6	75:o9:2:ALA:N	2.14	0.79
36:1:368:G:OP1	85:1:3744:OHX:N5	2.15	0.79
36:1:1409:G:N7	85:1:3926:OHX:N3	2.31	0.79
36:1:1564:U:H2'	36:1:1565:G:C8	2.18	0.79
1:2:393:C:OP2	10:S8:2:GLY:N	2.16	0.79
36:1:1592:G:OP2	70:O4:37:LYS:NZ	2.12	0.79
36:5:1940:G:H21	36:5:3362:A:H8	1.29	0.79
63:n7:83:THR:HG23	63:n7:85:TYR:H	1.48	0.79
61:N5:100:LYS:HZ2	61:N5:107:VAL:H	1.29	0.79
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.65	0.79
36:5:2128:C:OP1	85:5:3932:OHX:N3	2.15	0.79
85:5:3798:OHX:N4	45:l8:54:GLU:OE2	2.16	0.79
18:c6:50:GLU:OE2	18:c6:82:ARG:NH2	2.16	0.79
43:l6:31:ARG:NH1	69:o3:107:ILE:O	2.15	0.79
39:L2:14:SER:OG	39:L2:15:ILE:N	2.12	0.78
20:c8:120:ARG:HG2	35:sM:61:ILE:HG21	1.65	0.78
23:d1:60:ARG:HA	23:d1:65:SER:HB2	1.65	0.78
36:5:2718:U:O4	85:5:4062:OHX:N6	2.16	0.78
78:q2:12:CYS:SG	78:q2:17:CYS:HB3	2.21	0.78
66:O0:30:THR:HB	66:O0:91:SER:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:101:THR:HG23	71:O5:104:GLN:HB2	1.63	0.78
1:6:895:G:H21	16:c4:38:THR:HG21	1.48	0.78
16:c4:50:ALA:O	16:c4:52:ARG:N	2.16	0.78
1:2:1537:C:N3	85:2:2112:OHX:N4	2.31	0.78
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.16	0.78
36:1:2531:C:N4	36:1:2548:C:O2	2.16	0.78
1:6:653:C:H42	1:6:677:G:H1	1.27	0.78
36:5:652:G:OP2	85:5:4007:OHX:N6	2.17	0.78
75:o9:5:LYS:HD3	75:o9:13:MET:HE1	1.65	0.78
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.65	0.78
36:1:2534:G:O6	85:1:3858:OHX:N4	2.16	0.78
36:1:3376:A:OP2	85:1:3766:OHX:N5	2.16	0.78
87:1:3401:ANM:H13	87:1:3401:ANM:N1	1.98	0.78
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.16	0.78
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.64	0.78
36:5:1010:G:N2	47:m0:193:ASP:OD1	2.16	0.78
36:5:980:A:H2'	36:5:981:U:C2	2.19	0.78
36:5:2556:C:O2'	63:n7:135:ARG:NH2	2.16	0.78
75:o9:23:LEU:HD22	75:o9:24:PRO:HD2	1.63	0.78
1:2:57:G:O6	85:2:2005:OHX:N3	2.15	0.78
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.66	0.78
57:n1:51:GLY:HA3	57:n1:92:ARG:HG3	1.64	0.78
1:2:1542:G:N2	1:2:1569:A:OP2	2.16	0.78
36:1:1194:G:OP1	85:1:3823:OHX:N3	2.17	0.78
38:4:16:G:O6	85:4:215:OHX:N3	2.17	0.78
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.16	0.78
36:5:1024:G:O6	36:5:1029:G:N2	2.17	0.78
1:2:346:G:N7	85:2:2084:OHX:N1	2.31	0.78
24:D2:15:ASN:ND2	24:D2:72:CYS:SG	2.57	0.78
36:1:978:G:O2'	36:1:979:U:O2	2.01	0.78
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.17	0.78
59:N3:45:ARG:HB3	59:N3:48:ARG:HG3	1.66	0.78
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.17	0.78
41:l4:204:GLY:O	41:l4:246:ARG:NH1	2.17	0.78
24:D2:82:LYS:O	24:D2:84:GLY:N	2.16	0.78
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	1.65	0.78
67:O1:13:THR:HG22	67:O1:72:ARG:HD3	1.64	0.78
25:d3:109:ARG:O	25:d3:112:LYS:NZ	2.16	0.78
36:5:600:G:O6	85:5:3963:OHX:N4	2.16	0.78
36:5:3115:C:O2	36:5:3117:C:N4	2.17	0.78
28:D6:41:ILE:HG22	28:D6:68:TYR:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3224:G:O6	85:1:3753:OHX:N4	2.17	0.78
61:n5:57:LEU:HD23	61:n5:61:LYS:HG2	1.66	0.78
1:2:207:U:O2	10:S8:178:ARG:NH1	2.17	0.77
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.16	0.77
1:6:1385:G:N7	85:6:2083:OHX:N6	2.31	0.77
13:c1:132:SER:O	13:c1:134:THR:N	2.17	0.77
41:l4:143:GLU:O	85:l4:401:OHX:N1	2.17	0.77
6:S4:13:ALA:O	6:S4:39:ARG:NH2	2.17	0.77
1:6:374:U:OP1	13:c1:96:LYS:NZ	2.16	0.77
7:s5:92:ARG:NH2	7:s5:169:ASN:OD1	2.17	0.77
36:5:196:G:N7	85:5:3788:OHX:N3	2.33	0.77
40:l3:296:THR:HG22	40:l3:298:PHE:H	1.50	0.77
38:8:67:U:O4	85:8:221:OHX:N3	2.17	0.77
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	1.67	0.77
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.66	0.77
36:1:2207:A:H2'	36:1:2208:A:H5'	1.65	0.77
36:1:2535:A:H61	36:1:2544:U:H3	1.33	0.77
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.16	0.77
1:6:1154:G:N7	85:6:2097:OHX:N2	2.33	0.77
38:8:150:G:N7	85:8:214:OHX:N5	2.32	0.77
36:5:1887:A:OP2	85:5:3774:OHX:N5	2.18	0.77
44:l7:151:ARG:NH1	44:l7:244:ASN:O	2.18	0.77
1:2:140:A:OP2	8:S6:187:LYS:NZ	2.16	0.77
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.17	0.77
1:6:1543:A:N6	1:6:1568:C:O2	2.17	0.77
1:6:1584:G:N2	1:6:1611:A:OP2	2.13	0.77
36:5:271:C:O2	72:o6:82:ARG:NH2	2.17	0.77
4:S2:139:ILE:HG22	4:S2:141:ARG:HD2	1.66	0.77
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.64	0.77
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.17	0.77
36:1:1555:U:H5	36:1:1559:A:H61	1.32	0.77
41:L4:269:SER:O	41:L4:271:LYS:N	2.16	0.77
1:6:800:U:H2'	1:6:801:G:H8	1.48	0.77
1:6:1126:G:OP1	77:q1:15:ARG:NH1	2.18	0.77
9:s7:66:SER:O	9:s7:68:ALA:N	2.17	0.77
17:c5:15:HIS:H	17:c5:22:LEU:HD22	1.48	0.77
1:2:7:G:N7	4:S2:205:ARG:NH1	2.29	0.77
36:1:1317:A:OP1	85:1:3923:OHX:N2	2.18	0.77
36:5:18:G:OP1	71:o5:81:ARG:NH2	2.14	0.77
36:1:718:G:C2	36:1:721:G:H1'	2.20	0.77
7:s5:94:THR:HG22	7:s5:114:ILE:HG13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:398:A:O2'	36:5:1416:C:OP1	2.01	0.77
36:5:2724:U:O4	85:5:3803:OHX:N1	2.18	0.77
66:o0:13:LYS:NZ	66:o0:99:ASP:OD1	2.17	0.77
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.66	0.76
4:S2:81:MET:HE1	4:S2:186:LYS:HB3	1.66	0.76
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.48	0.76
36:5:149:U:OP2	51:m5:49:ARG:NH1	2.18	0.76
40:l3:252:ILE:HG13	40:l3:266:ARG:HH21	1.49	0.76
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.48	0.76
36:1:695:C:OP1	41:L4:271:LYS:NZ	2.17	0.76
47:M0:193:ASP:OD2	47:M0:194:GLY:N	2.18	0.76
1:6:1241:G:OP2	17:c5:77:ARG:NH1	2.19	0.76
32:e0:41:THR:HG22	32:e0:45:VAL:HG11	1.65	0.76
36:5:1387:G:OP1	85:5:4037:OHX:N3	2.18	0.76
36:5:2717:U:OP1	85:5:3911:OHX:N3	2.19	0.76
36:1:1129:A:OP1	47:M0:13:LYS:NZ	2.17	0.76
36:1:2318:U:O4	85:1:3900:OHX:N2	2.18	0.76
39:L2:112:ILE:HG12	39:L2:135:ILE:HG22	1.66	0.76
36:5:1538:G:OP2	85:5:3849:OHX:N2	2.16	0.76
1:2:237:C:H5''	1:2:238:U:H5'	1.67	0.76
37:3:44:C:OP2	48:M1:137:ARG:NH2	2.18	0.76
41:L4:145:ILE:O	85:L4:401:OHX:N5	2.18	0.76
48:M1:107:ASP:OD1	48:M1:107:ASP:N	2.14	0.76
1:2:45:U:O2'	1:2:46:A:H2'	1.85	0.76
36:1:541:U:O4	85:1:3917:OHX:N6	2.18	0.76
40:L3:25:ILE:HD13	40:L3:25:ILE:H	1.48	0.76
3:s1:77:GLU:OE1	16:c4:114:ARG:NH2	2.18	0.76
43:L6:31:ARG:NH2	43:L6:81:ALA:O	2.19	0.76
1:6:967:A:OP2	15:c3:124:ARG:NH2	2.18	0.76
18:C6:112:TYR:OH	18:C6:114:ARG:NH1	2.19	0.76
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.72	0.76
1:6:770:A:OP2	85:6:2100:OHX:N3	2.19	0.76
36:5:1238:C:O2'	36:5:1239:C:OP1	2.03	0.76
70:o4:102:LYS:HB3	70:o4:103:LYS:HE3	1.66	0.76
2:s0:9:LEU:HD11	2:s0:14:ALA:HB2	1.67	0.76
19:c7:27:ASP:O	19:c7:31:ASN:ND2	2.17	0.76
36:5:2392:C:O2'	40:l3:266:ARG:NH2	2.16	0.76
71:o5:85:THR:HG22	71:o5:88:LEU:H	1.51	0.76
36:1:953:G:OP1	65:N9:15:LYS:NZ	2.19	0.76
36:5:1450:G:OP1	85:5:4059:OHX:N4	2.19	0.76
38:8:21:C:OP1	41:l4:193:LYS:NZ	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:320:ASP:OD2	40:L3:320:ASP:N	2.19	0.76
1:6:647:G:H22	1:6:687:G:H1	1.34	0.76
1:6:1534:G:OP2	27:d5:74:SER:OG	2.03	0.76
36:5:1912:U:N3	36:5:2122:G:OP2	2.19	0.76
37:7:73:C:O2	56:n0:13:ARG:NH1	2.19	0.76
73:o7:62:GLY:O	85:o7:502:OHX:N3	2.19	0.76
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.19	0.75
36:1:297:G:OP2	36:1:297:G:N2	2.19	0.75
36:1:410:U:O4	85:1:3915:OHX:N5	2.18	0.75
87:1:3401:ANM:H63	87:1:3401:ANM:H151	1.69	0.75
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.25	0.75
36:5:640:U:OP1	64:n8:21:ARG:NH2	2.19	0.75
85:5:4025:OHX:N2	72:o6:28:TYR:O	2.20	0.75
36:5:240:U:HO2'	36:5:241:G:H8	1.31	0.75
70:o4:54:ILE:HD11	70:o4:78:GLY:HA2	1.67	0.75
76:q0:106:ARG:HB2	76:q0:106:ARG:HH11	1.50	0.75
1:2:1488:G:H3'	1:2:1515:A:H61	1.49	0.75
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.68	0.75
42:l5:76:ALA:HB3	42:l5:109:THR:HG22	1.68	0.75
1:2:523:G:OP2	26:D4:37:LYS:NZ	2.20	0.75
36:1:269:G:N2	36:1:295:A:OP2	2.17	0.75
51:m5:96:ARG:NH2	51:m5:104:GLU:OE1	2.19	0.75
1:2:952:A:OP1	15:C3:94:LYS:NZ	2.19	0.75
36:5:1318:A:OP1	52:m6:18:ARG:NH2	2.20	0.75
1:2:1349:G:H1	1:2:1376:C:H42	1.33	0.75
1:2:1370:U:O4	85:2:2079:OHX:N5	2.20	0.75
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.20	0.75
1:6:1595:U:H3	1:6:1600:A:H2	1.32	0.75
41:l4:217:LYS:HA	41:l4:220:ARG:HG2	1.68	0.75
1:2:1291:G:N2	1:2:1324:G:H22	1.84	0.75
36:1:508:U:O4	85:1:3864:OHX:N6	2.20	0.75
3:s1:83:LYS:HD2	3:s1:106:THR:H	1.52	0.75
72:o6:59:ASP:O	72:o6:63:ASN:ND2	2.20	0.75
1:2:770:A:OP2	85:2:2097:OHX:N6	2.19	0.75
1:2:1159:C:N3	85:2:2074:OHX:N4	2.35	0.75
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.20	0.75
36:1:1759:C:N4	36:1:1766:G:O6	2.19	0.75
40:L3:260:VAL:HG11	40:L3:266:ARG:HH11	1.50	0.75
41:L4:33:ASP:OD1	41:L4:34:ILE:N	2.19	0.75
8:s6:78:THR:HG23	8:s6:92:ARG:HG2	1.66	0.75
36:5:1541:G:OP2	85:5:3934:OHX:N4	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2568:C:N4	36:5:2574:G:O6	2.20	0.75
54:m8:180:ARG:HH11	54:m8:185:LYS:HB3	1.50	0.75
35:SM:26:VAL:HG11	48:M1:49:LYS:HE3	1.68	0.74
43:l6:85:ILE:HG23	69:o3:107:ILE:HG21	1.69	0.74
3:S1:157:GLN:O	3:S1:159:SER:N	2.20	0.74
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.21	0.74
36:5:1806:A:OP2	85:5:3868:OHX:N5	2.20	0.74
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.67	0.74
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.69	0.74
36:1:2538:U:HO2'	36:1:2541:U:H3	1.34	0.74
85:1:3818:OHX:N6	44:L7:217:PRO:O	2.20	0.74
36:5:563:U:OP1	56:n0:71:LYS:NZ	2.19	0.74
38:8:80:A:H2	38:8:83:C:H41	1.35	0.74
66:o0:57:GLU:OE1	66:o0:69:TYR:OH	2.06	0.74
56:N0:8:GLN:HB3	56:N0:64:ILE:HD11	1.69	0.74
1:6:1552:U:OP2	17:c5:43:ARG:NH2	2.20	0.74
1:6:1765:A:OP1	85:6:2088:OHX:N2	2.20	0.74
36:5:1878:G:OP1	85:5:3801:OHX:N5	2.20	0.74
36:1:837:A:OP1	79:Q3:5:THR:OG1	2.05	0.74
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.69	0.74
36:5:744:A:OP1	54:m8:66:ARG:NH2	2.21	0.74
36:1:300:G:O6	85:1:4004:OHX:N1	2.21	0.74
36:1:2771:U:OP2	36:1:2772:C:N4	2.19	0.74
36:1:3340:G:O6	85:1:3912:OHX:N4	2.20	0.74
59:N3:131:SER:O	59:N3:133:SER:N	2.20	0.74
64:n8:116:GLY:O	64:n8:137:LYS:NZ	2.17	0.74
1:2:1738:U:O4	85:2:2001:OHX:N4	2.21	0.74
37:3:77:G:N2	37:3:102:A:OP2	2.17	0.74
1:6:22:A:OP2	85:6:2110:OHX:N2	2.20	0.74
36:5:549:U:O4	85:5:3856:OHX:N4	2.21	0.74
36:5:1334:U:H5''	44:l7:206:LYS:HB3	1.69	0.74
2:S0:26:ALA:H	2:S0:149:LEU:HD12	1.53	0.74
29:D7:61:THR:HG23	29:D7:62:ILE:H	1.53	0.74
36:5:3186:A:N3	46:l9:44:THR:HG22	2.03	0.74
36:5:3242:G:H5'	36:5:3245:A:H8	1.52	0.74
1:2:652:G:H1	1:2:682:C:H42	1.34	0.74
22:D0:117:VAL:HG13	22:D0:118:VAL:H	1.52	0.74
85:6:2019:OHX:N3	3:s1:157:GLN:OE1	2.21	0.74
36:5:679:U:O4	85:5:3858:OHX:N2	2.20	0.74
60:n4:9:SER:HA	60:n4:52:THR:HG22	1.69	0.74
36:1:739:G:O6	85:1:3778:OHX:N3	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:94:ARG:O	48:M1:96:PHE:N	2.20	0.73
58:N2:51:GLY:O	58:N2:52:ASN:ND2	2.21	0.73
36:5:269:G:OP1	51:m5:44:ARG:NH2	2.20	0.73
48:m1:94:ARG:O	48:m1:96:PHE:N	2.19	0.73
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.21	0.73
57:N1:88:ARG:NH2	65:N9:33:LYS:O	2.21	0.73
2:s0:24:LEU:O	2:s0:163:ASN:ND2	2.21	0.73
2:s0:83:GLN:N	2:s0:204:TYR:OH	2.21	0.73
20:c8:145:ARG:HG3	35:sM:68:ARG:HH22	1.51	0.73
36:5:1431:G:N7	64:n8:9:ARG:NH2	2.37	0.73
78:q2:28:TYR:HB3	78:q2:69:VAL:HB	1.70	0.73
1:2:1795:U:H3'	28:D6:5:ARG:HH12	1.52	0.73
20:C8:53:ASP:HB3	20:C8:56:LYS:HG3	1.68	0.73
85:1:3829:OHX:N1	38:4:31:G:OP2	2.21	0.73
37:3:60:G:H2'	37:3:61:G:H8	1.53	0.73
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.52	0.73
1:6:478:A:OP1	32:e0:37:ARG:NH1	2.21	0.73
36:5:1727:G:OP1	79:q3:44:LYS:NZ	2.21	0.73
36:5:1949:G:OP1	55:m9:104:ARG:NH1	2.22	0.73
63:n7:102:GLU:H	63:n7:107:ARG:HH21	1.34	0.73
72:o6:58:ILE:HG22	72:o6:90:MET:HG3	1.71	0.73
36:1:2669:G:N7	85:1:3930:OHX:N4	2.37	0.73
27:d5:43:ASP:HB2	27:d5:46:LYS:HB2	1.70	0.73
36:5:1066:G:OP1	85:5:4058:OHX:N2	2.20	0.73
1:2:149:C:O2'	8:S6:132:ARG:NH1	2.21	0.73
40:l3:53:MET:HG2	40:l3:77:THR:HG22	1.69	0.73
38:4:103:G:O6	85:4:218:OHX:N6	2.21	0.73
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.70	0.73
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.71	0.73
1:6:765:G:N7	11:s9:149:ARG:NE	2.35	0.73
45:l8:95:ASN:OD1	45:l8:98:ARG:NH1	2.19	0.73
63:n7:16:GLY:O	63:n7:18:TYR:N	2.21	0.73
5:s3:105:MET:HG2	5:s3:122:VAL:HG21	1.70	0.73
36:5:1765:U:H4'	36:5:1765:U:OP1	1.88	0.73
43:l6:3:ALA:HB2	68:o2:77:ALA:HB2	1.70	0.73
1:2:1471:A:OP1	7:S5:185:ARG:NH1	2.22	0.73
73:O7:60:GLY:HA2	73:O7:64:MET:HE2	1.68	0.73
16:c4:131:GLY:O	16:c4:133:ARG:N	2.21	0.73
36:1:1564:U:H2'	36:1:1565:G:H8	1.51	0.73
36:1:3259:U:H6	36:1:3259:U:H5'	1.54	0.73
1:6:775:G:N7	26:d4:11:LYS:NZ	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2996:U:H4'	36:5:2996:U:OP1	1.89	0.73
39:12:70:ARG:HD2	39:12:72:ARG:HE	1.54	0.73
36:1:2734:A:OP1	85:1:3867:OHX:N3	2.22	0.73
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.68	0.73
36:5:1103:A:H3'	36:5:1104:G:H5'	1.71	0.73
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.22	0.72
1:6:1253:U:O4	33:e1:97:LYS:NZ	2.21	0.72
62:n6:39:LEU:HD12	62:n6:43:TYR:HE2	1.54	0.72
36:1:343:U:OP2	85:1:3744:OHX:N6	2.22	0.72
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.55	0.72
36:5:838:G:O6	79:q3:4:ARG:NH2	2.23	0.72
36:5:1427:U:OP2	64:n8:4:ARG:NH2	2.23	0.72
40:l3:30:LYS:O	85:l3:407:OHX:N1	2.21	0.72
41:l4:20:LEU:HD11	41:l4:252:GLU:HG3	1.70	0.72
36:1:2295:A:OP1	59:N3:63:LYS:NZ	2.23	0.72
36:1:2683:U:H2'	36:1:2684:C:C6	2.24	0.72
87:1:3401:ANM:HN1	87:1:3401:ANM:C13	2.01	0.72
36:5:3309:G:O6	40:l3:21:ARG:NH2	2.21	0.72
1:2:1485:C:OP1	85:2:2059:OHX:N6	2.22	0.72
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.70	0.72
46:L9:22:SER:OG	46:L9:23:ARG:N	2.16	0.72
61:N5:92:LYS:HD2	61:N5:112:THR:HG23	1.71	0.72
1:6:123:G:H21	6:s4:146:THR:HG21	1.54	0.72
38:8:139:U:O4	85:8:219:OHX:N5	2.21	0.72
45:l8:161:GLU:OE2	51:m5:26:ARG:NH2	2.21	0.72
67:o1:80:ASN:HA	67:o1:90:PHE:CE2	2.25	0.72
15:C3:101:HIS:O	15:C3:105:ASN:ND2	2.19	0.72
30:D8:36:THR:OG1	30:D8:37:SER:N	2.23	0.72
63:N7:88:ASP:O	63:N7:121:ARG:NH2	2.22	0.72
72:O6:74:LYS:HD2	72:O6:80:PHE:HD2	1.54	0.72
1:6:169:A:H5''	8:s6:176:GLN:HG2	1.71	0.72
1:6:1564:U:H2'	1:6:1565:C:C6	2.24	0.72
13:c1:99:ARG:NH1	25:d3:7:ARG:O	2.23	0.72
36:5:1543:G:O6	85:5:4038:OHX:N1	2.23	0.72
3:S1:26:ARG:NH1	3:S1:49:ASN:OD1	2.21	0.72
39:L2:20:THR:HA	39:L2:23:ARG:HD2	1.71	0.72
74:O8:36:LYS:HG2	74:O8:37:PRO:HD2	1.72	0.72
79:Q3:49:ARG:HD2	79:Q3:50:GLY:H	1.52	0.72
36:5:1630:U:OP1	63:n7:67:LYS:NZ	2.16	0.72
50:m4:16:GLU:HB3	56:n0:149:LYS:HB3	1.70	0.72
36:1:1170:A:OP2	85:1:3818:OHX:N6	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:126:ARG:HB2	20:c8:133:VAL:HG12	1.72	0.72
36:5:75:G:H5''	49:m3:58:VAL:HG13	1.71	0.72
66:o0:18:ILE:HG22	66:o0:19:LYS:HD3	1.72	0.72
33:E1:91:ILE:HG12	33:E1:92:LYS:H	1.54	0.72
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.06	0.72
13:c1:33:ARG:NH2	13:c1:51:GLY:O	2.22	0.72
30:d8:11:LYS:NZ	30:d8:31:GLU:OE1	2.20	0.72
73:O7:87:SER:O	85:O7:104:OHX:N3	2.22	0.72
1:6:1370:U:H4'	1:6:1371:A:H4'	1.72	0.72
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.72	0.72
64:n8:6:THR:HG22	64:n8:9:ARG:HG2	1.70	0.72
25:D3:91:GLY:O	25:D3:93:LEU:N	2.23	0.72
36:1:1240:A:H61	36:1:1244:A:H5''	1.55	0.72
75:O9:10:LYS:HA	75:O9:13:MET:HE3	1.72	0.72
28:d6:10:ARG:HB2	28:d6:34:LYS:HA	1.70	0.72
34:sR:236:ALA:O	34:sR:261:LYS:NZ	2.23	0.72
36:5:2248:C:OP2	85:5:3822:OHX:N6	2.22	0.72
36:1:1298:C:OP2	85:1:3823:OHX:N4	2.22	0.71
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.72	0.71
1:6:1579:U:OP1	85:6:2147:OHX:N4	2.22	0.71
36:5:3214:U:H6	43:l6:166:LYS:HZ1	1.36	0.71
41:l4:93:MET:H	41:l4:93:MET:HE2	1.53	0.71
1:2:900:A:OP1	16:C4:43:THR:OG1	2.08	0.71
1:2:1482:C:O2'	18:C6:72:GLY:O	2.08	0.71
4:S2:90:THR:HG22	4:S2:92:ALA:H	1.53	0.71
36:1:979:U:H1'	36:1:980:A:C8	2.25	0.71
36:1:2310:U:OP1	85:1:3997:OHX:N1	2.22	0.71
36:1:2687:G:N7	85:1:3759:OHX:N2	2.37	0.71
36:1:3042:U:OP2	36:1:3092:C:N4	2.20	0.71
85:1:3944:OHX:N4	55:M9:14:VAL:O	2.23	0.71
1:6:1151:A:O2'	1:6:1766:A:N7	2.22	0.71
3:s1:137:ILE:HD11	3:s1:172:LEU:HD22	1.72	0.71
56:n0:6:GLU:OE1	56:n0:99:ARG:NH2	2.18	0.71
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.71	0.71
36:1:600:G:O6	85:1:3956:OHX:N5	2.24	0.71
36:1:1310:G:O6	85:1:3888:OHX:N1	2.23	0.71
54:M8:170:ARG:NH1	64:N8:56:VAL:O	2.23	0.71
1:2:190:C:N4	1:2:196:G:O6	2.18	0.71
36:1:807:A:H61	36:1:934:G:H22	1.38	0.71
36:1:2796:G:N7	78:Q2:63:LYS:NZ	2.39	0.71
36:5:1564:U:H2'	36:5:1565:G:C8	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2744:U:OP1	85:5:3935:OHX:N2	2.23	0.71
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.20	0.71
36:1:1364:C:OP1	44:L7:110:ARG:NH2	2.20	0.71
36:1:2687:G:OP1	42:L5:8:LYS:NZ	2.23	0.71
1:6:1127:G:OP1	77:q1:11:ARG:NH2	2.23	0.71
36:5:990:U:O4	85:5:4021:OHX:N6	2.24	0.71
36:5:2371:G:O6	85:5:3752:OHX:N4	2.23	0.71
36:5:3192:U:O4	85:5:3979:OHX:N2	2.22	0.71
1:2:1727:G:H21	10:S8:32:GLN:HE22	1.36	0.71
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.71	0.71
36:1:2573:G:O6	85:1:3859:OHX:N3	2.23	0.71
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.08	0.71
2:s0:13:ASP:OD1	2:s0:179:ARG:NH2	2.18	0.71
13:c1:101:GLU:OE2	25:d3:16:ARG:NH2	2.23	0.71
36:5:2177:G:OP2	39:l2:128:ARG:NH1	2.23	0.71
47:m0:19:LYS:HE3	47:m0:26:VAL:HG22	1.73	0.71
63:n7:83:THR:HA	66:o0:58:TYR:HE2	1.54	0.71
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	1.55	0.71
1:6:513:U:OP1	11:s9:133:HIS:NE2	2.20	0.71
34:sR:20:VAL:HG11	34:sR:310:ILE:HG12	1.72	0.71
41:l4:144:LYS:O	85:l4:401:OHX:N1	2.24	0.71
41:l4:292:SER:OG	41:l4:294:GLU:OE1	2.09	0.71
51:m5:119:TYR:OH	51:m5:131:GLU:OE1	2.08	0.71
53:m7:30:ARG:HA	53:m7:119:VAL:HG11	1.72	0.71
66:o0:100:ILE:HG13	66:o0:101:LEU:HD22	1.72	0.71
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.56	0.71
1:6:105:A:OP1	10:s8:18:ARG:NH1	2.24	0.71
3:s1:48:VAL:HG21	3:s1:61:LEU:HD22	1.72	0.71
20:c8:91:ASP:OD1	20:c8:92:ILE:N	2.22	0.71
36:5:98:G:N7	49:m3:13:HIS:NE2	2.39	0.71
2:S0:198:MET:HE1	19:C7:88:VAL:HB	1.73	0.71
36:1:19:U:O2'	51:M5:138:GLN:NE2	2.24	0.71
87:1:3401:ANM:H151	87:1:3401:ANM:C5	2.20	0.71
64:N8:28:HIS:CD2	64:N8:32:ARG:HG3	2.25	0.71
1:6:58:U:O4	85:6:2053:OHX:N6	2.24	0.71
36:5:801:A:OP1	64:n8:27:LYS:NZ	2.22	0.71
40:L3:375:GLU:OE2	60:N4:14:TYR:OH	2.06	0.71
51:M5:58:GLY:HA3	51:M5:142:ILE:HD11	1.72	0.71
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.72	0.71
18:c6:110:THR:HA	18:c6:113:ASP:HB2	1.71	0.71
1:2:1542:G:N2	1:2:1568:C:H1'	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.73	0.70
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.05	0.70
36:1:533:A:O2'	36:1:535:G:OP2	2.08	0.70
36:1:2419:A:H2'	36:1:2420:C:H6	1.56	0.70
36:1:2794:G:N7	85:1:3794:OHX:N2	2.39	0.70
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.71	0.70
48:M1:160:VAL:O	48:M1:164:LYS:N	2.22	0.70
62:N6:82:VAL:HG12	62:N6:85:VAL:H	1.56	0.70
1:6:67:A:O2'	1:6:69:G:OP1	2.07	0.70
4:s2:143:TYR:O	24:d2:98:GLN:NE2	2.24	0.70
19:c7:103:ASP:HA	19:c7:122:ILE:HB	1.73	0.70
36:5:1591:G:OP1	70:o4:37:LYS:NZ	2.23	0.70
36:5:3272:C:OP2	43:l6:78:ARG:NH1	2.24	0.70
59:n3:2:SER:OG	59:n3:3:GLY:N	2.20	0.70
78:q2:12:CYS:SG	78:q2:17:CYS:CB	2.79	0.70
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	1.72	0.70
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.72	0.70
42:L5:68:THR:HG22	42:L5:70:THR:H	1.55	0.70
49:M3:91:ARG:NH2	49:M3:97:VAL:O	2.23	0.70
17:c5:68:PRO:O	85:c5:201:OHX:N1	2.24	0.70
36:5:1110:U:O4	85:5:3834:OHX:N4	2.24	0.70
1:2:591:A:H2'	1:2:592:A:C8	2.27	0.70
3:S1:110:LEU:HD21	3:S1:213:ARG:HD2	1.73	0.70
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.72	0.70
40:L3:347:SER:O	40:L3:349:LYS:N	2.24	0.70
41:L4:6:VAL:N	41:L4:20:LEU:O	2.24	0.70
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.24	0.70
1:6:987:G:O6	85:6:2082:OHX:N4	2.24	0.70
1:6:1366:U:H5'	18:c6:30:LYS:HZ1	1.56	0.70
1:6:1524:A:H2'	1:6:1525:A:C8	2.27	0.70
21:c9:28:LEU:HA	21:c9:111:ILE:HD11	1.72	0.70
36:5:437:G:N7	85:5:4068:OHX:N3	2.39	0.70
36:5:3055:U:O2'	36:5:3057:U:OP1	2.09	0.70
36:5:3206:C:O2	56:n0:155:ARG:NH1	2.24	0.70
36:5:3274:A:H3'	36:5:3275:U:H5''	1.73	0.70
1:2:749:U:H3	1:2:800:U:H3	1.40	0.70
2:S0:69:ASN:OD1	4:S2:244:SER:OG	2.09	0.70
2:S0:185:ARG:HB2	23:D1:45:ALA:H	1.56	0.70
33:E1:108:VAL:HB	33:E1:114:VAL:HG22	1.72	0.70
36:1:2977:G:OP1	85:1:3980:OHX:N5	2.24	0.70
48:M1:23:VAL:O	48:M1:25:GLU:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:116:A:OP1	72:o6:36:ARG:NH1	2.24	0.70
36:5:718:G:OP1	64:n8:117:ARG:NH2	2.24	0.70
63:n7:33:SER:OG	63:n7:34:LYS:N	2.20	0.70
4:S2:157:LYS:HG2	4:S2:170:ILE:HG13	1.73	0.70
19:C7:108:ASP:O	19:C7:112:SER:OG	2.10	0.70
63:N7:127:ASN:O	63:N7:129:TRP:N	2.24	0.70
36:5:673:U:OP1	54:m8:21:SER:OG	2.08	0.70
36:5:2874:G:H1'	36:5:2875:U:H5'	1.72	0.70
36:1:114:A:N1	36:1:266:A:O2'	2.24	0.70
36:1:735:A:H2'	36:1:736:A:C8	2.27	0.70
36:1:1230:G:H1	36:1:1279:C:H42	1.36	0.70
36:1:1881:A:H2'	36:1:1882:G:H8	1.55	0.70
3:s1:129:THR:OG1	3:s1:131:ASP:OD1	2.10	0.70
1:2:885:G:OP1	3:S1:136:ARG:NH1	2.23	0.70
1:2:1067:C:H5''	3:S1:150:VAL:HG23	1.71	0.70
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.72	0.70
10:S8:76:THR:HB	10:S8:105:ASP:HB2	1.74	0.70
25:D3:137:LYS:HE3	25:D3:139:LYS:HD2	1.73	0.70
36:1:2924:U:O4	85:1:3878:OHX:N1	2.25	0.70
20:c8:27:LYS:O	20:c8:31:ALA:N	2.23	0.70
36:5:2610:G:O6	85:5:4011:OHX:N6	2.24	0.70
37:7:100:C:OP2	56:n0:52:LYS:NZ	2.25	0.70
50:m4:13:ARG:NH1	50:m4:65:LEU:O	2.24	0.70
57:n1:8:ARG:O	57:n1:11:THR:OG1	2.08	0.70
63:n7:23:VAL:HG12	63:n7:45:GLY:HA3	1.73	0.70
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.25	0.70
38:4:150:G:N7	85:4:220:OHX:N4	2.39	0.70
46:L9:48:VAL:HG13	46:L9:52:LEU:HB3	1.73	0.70
85:2:2092:OHX:N6	10:S8:52:ASN:OD1	2.24	0.70
20:C8:120:ARG:NH2	35:SM:58:GLU:OE1	2.25	0.70
36:1:2419:A:H2'	36:1:2420:C:C6	2.27	0.70
1:6:453:U:O4	85:6:2025:OHX:N4	2.24	0.70
36:5:283:G:OP2	78:q2:45:ARG:NH2	2.24	0.70
59:n3:48:ARG:HH11	59:n3:48:ARG:HG3	1.56	0.70
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.72	0.70
4:S2:161:LYS:NZ	4:S2:163:GLY:O	2.25	0.70
20:C8:94:ASP:OD1	20:C8:98:TYR:OH	2.07	0.70
36:1:2218:G:H2'	36:1:2219:A:H8	1.57	0.70
36:1:2636:A:H5''	36:1:2637:A:H5'	1.73	0.70
40:L3:260:VAL:HG11	40:L3:266:ARG:NH1	2.07	0.70
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.24	0.70
14:c2:61:VAL:HG13	14:c2:121:VAL:HG23	1.73	0.70
14:c2:66:VAL:HG11	14:c2:71:ILE:HD12	1.73	0.70
36:5:155:G:H5'	36:5:156:G:C8	2.27	0.70
39:l2:204:MET:HG2	39:l2:208:ASP:HB2	1.74	0.70
41:l4:16:THR:HG22	41:l4:18:ASN:H	1.57	0.70
1:2:656:G:O2'	1:2:657:U:O4'	2.10	0.69
3:S1:27:LYS:NZ	3:S1:48:VAL:O	2.17	0.69
36:1:425:G:O6	85:1:3735:OHX:N6	2.24	0.69
2:s0:103:THR:O	2:s0:106:SER:OG	2.09	0.69
9:s7:74:GLN:O	9:s7:78:THR:OG1	2.10	0.69
53:m7:122:ALA:HB3	53:m7:143:PRO:HB2	1.73	0.69
1:2:1041:G:H2'	1:2:1042:G:C8	2.27	0.69
1:2:1188:G:O2'	1:2:1430:U:OP1	2.10	0.69
30:D8:12:VAL:HA	30:D8:30:VAL:HG12	1.73	0.69
36:1:742:G:N7	85:1:3835:OHX:N1	2.40	0.69
57:N1:12:ARG:NH1	57:N1:13:TYR:OH	2.24	0.69
4:s2:140:ARG:NH2	4:s2:226:THR:OG1	2.25	0.69
36:5:1919:G:N7	85:5:3915:OHX:N4	2.41	0.69
1:2:1500:C:OP1	21:C9:122:ARG:NH2	2.24	0.69
6:S4:230:GLU:HB2	6:S4:233:LYS:HB2	1.74	0.69
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.57	0.69
36:1:3043:C:OP2	59:N3:48:ARG:NH2	2.25	0.69
37:3:121:U:H1'	42:L5:268:GLU:HG2	1.73	0.69
1:6:110:U:O4	85:6:2054:OHX:N2	2.26	0.69
30:d8:31:GLU:O	30:d8:33:LEU:N	2.26	0.69
37:7:15:C:O3'	42:l5:8:LYS:NZ	2.24	0.69
1:2:1587:A:O2'	7:S5:104:ASN:OD1	2.10	0.69
8:s6:84:TYR:OH	8:s6:91:GLU:O	2.06	0.69
37:7:28:C:OP1	48:m1:137:ARG:NH1	2.19	0.69
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.75	0.69
43:L6:31:ARG:NH1	69:O3:107:ILE:O	2.26	0.69
64:N8:85:ASP:OD1	64:N8:86:LYS:N	2.25	0.69
34:sR:267:PRO:HD2	34:sR:269:TYR:HE1	1.57	0.69
36:5:361:A:H5'	73:o7:35:SER:OG	1.92	0.69
36:5:2877:G:N7	85:5:3977:OHX:N1	2.40	0.69
46:l9:120:ASP:OD1	46:l9:124:ARG:NH2	2.25	0.69
64:n8:147:LEU:HD12	72:o6:7:ILE:HD11	1.72	0.69
3:S1:127:VAL:HG11	3:S1:176:VAL:HG21	1.75	0.69
4:S2:47:ALA:O	4:S2:49:LYS:N	2.24	0.69
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:12:GLN:HG3	16:C4:111:ARG:HG3	1.75	0.69
23:D1:81:ASN:O	23:D1:83:TRP:N	2.25	0.69
36:1:1276:U:OP1	85:1:3945:OHX:N4	2.25	0.69
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.26	0.69
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.73	0.69
15:c3:91:LEU:HD12	15:c3:125:LEU:HD12	1.75	0.69
36:5:2895:G:H2'	36:5:2896:A:H5''	1.73	0.69
37:7:62:U:O3'	42:l5:285:ARG:NH1	2.26	0.69
49:m3:151:ALA:O	49:m3:153:ASP:N	2.22	0.69
36:1:353:G:N7	73:O7:55:ARG:HD3	2.08	0.69
55:M9:86:GLU:OE2	55:M9:91:SER:N	2.20	0.69
1:6:57:G:OP2	26:d4:116:LYS:NZ	2.18	0.69
1:6:1680:G:O6	85:6:2153:OHX:N4	2.26	0.69
11:s9:60:LEU:HD21	11:s9:93:LEU:HB3	1.74	0.69
18:c6:49:TYR:HB3	18:c6:53:LEU:HD21	1.75	0.69
18:c6:82:ARG:NH1	18:c6:114:ARG:O	2.26	0.69
41:l4:354:VAL:HG11	57:n1:143:THR:HG21	1.74	0.69
80:m2:120:UNK:O	80:m2:122:UNK:N	2.26	0.69
71:o5:21:LEU:HD22	71:o5:25:LYS:HE3	1.75	0.69
1:2:792:U:H3'	1:2:793:A:H8	1.58	0.69
1:2:1522:U:OP2	85:2:2018:OHX:N3	2.25	0.69
10:S8:89:GLU:OE1	10:S8:92:ARG:NH2	2.26	0.69
36:1:3281:U:H2'	36:1:3282:U:C6	2.28	0.69
36:1:3353:G:O2'	36:1:3354:U:OP1	2.10	0.69
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.26	0.69
9:s7:49:ILE:HG13	9:s7:57:ALA:HB3	1.75	0.69
22:d0:20:ILE:HD12	22:d0:100:VAL:HG21	1.75	0.69
36:5:2828:G:O2'	47:m0:4:ARG:NH1	2.26	0.69
1:2:301:A:OP2	85:2:2023:OHX:N2	2.26	0.69
15:C3:151:ASN:O	85:C3:201:OHX:N6	2.25	0.69
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	1.74	0.69
37:3:11:A:N1	37:3:67:G:O2'	2.23	0.69
1:6:280:U:OP2	60:n4:113:LYS:NZ	2.25	0.69
1:6:788:A:OP2	6:s4:108:ARG:NH1	2.25	0.69
17:c5:126:VAL:HG13	17:c5:127:ARG:H	1.58	0.69
36:5:1134:G:N7	85:5:3830:OHX:N3	2.41	0.69
66:o0:45:ALA:O	66:o0:48:THR:OG1	2.10	0.69
1:2:9:U:O4	85:2:2113:OHX:N6	2.26	0.68
1:2:40:A:O2'	85:2:2043:OHX:N5	2.26	0.68
18:C6:32:ASN:O	18:C6:66:ARG:NH1	2.26	0.68
36:1:1744:G:O6	85:1:3954:OHX:N2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1790:G:O6	85:1:4019:OHX:N4	2.26	0.68
36:1:2373:A:N3	36:1:2824:G:O2'	2.21	0.68
48:M1:6:GLN:O	48:M1:7:ASN:ND2	2.26	0.68
78:Q2:25:VAL:HG22	78:Q2:72:LEU:HD22	1.75	0.68
1:6:1654:G:OP1	77:q1:21:ARG:NH1	2.26	0.68
36:5:272:G:OP2	85:5:3917:OHX:N6	2.26	0.68
36:5:1114:U:H5''	64:n8:22:ILE:HD13	1.74	0.68
44:l7:134:VAL:O	44:l7:229:PHE:HA	1.92	0.68
53:m7:136:ILE:O	53:m7:137:ASN:ND2	2.26	0.68
59:n3:2:SER:HA	59:n3:56:ASP:HA	1.75	0.68
1:2:872:G:O6	85:2:2085:OHX:N3	2.26	0.68
11:S9:113:VAL:HG21	11:S9:134:ILE:HD12	1.75	0.68
37:3:112:G:OP2	85:3:215:OHX:N1	2.26	0.68
45:L8:78:PHE:O	45:L8:80:TYR:N	2.24	0.68
69:O3:86:ARG:O	85:O3:202:OHX:N1	2.26	0.68
13:c1:21:ASN:OD1	13:c1:21:ASN:N	2.26	0.68
32:e0:29:LYS:HG3	32:e0:30:PRO:HD2	1.74	0.68
36:5:2522:G:O6	39:l2:70:ARG:NH2	2.26	0.68
39:l2:206:PRO:HG3	39:l2:213:GLY:HA2	1.73	0.68
63:n7:115:LYS:NZ	63:n7:119:GLU:OE2	2.26	0.68
81:p0:91:GLU:HG2	81:p0:92:PRO:HD2	1.75	0.68
1:2:1254:U:OP2	14:C2:46:ARG:NH1	2.27	0.68
1:2:1521:G:O2'	1:2:1523:G:OP2	2.09	0.68
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.75	0.68
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.75	0.68
36:1:20:A:OP2	71:O5:90:ARG:NH1	2.26	0.68
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.26	0.68
42:L5:151:GLN:OE1	42:L5:152:ARG:N	2.26	0.68
57:N1:26:HIS:ND1	57:N1:26:HIS:O	2.25	0.68
63:N7:88:ASP:HB3	63:N7:121:ARG:HH22	1.58	0.68
1:6:918:U:H2'	1:6:919:A:H8	1.58	0.68
36:5:330:G:OP2	85:5:3892:OHX:N1	2.26	0.68
36:5:3242:G:H5'	36:5:3245:A:C8	2.27	0.68
72:o6:9:ILE:HD13	72:o6:10:GLY:H	1.57	0.68
1:2:1114:G:O6	85:2:2033:OHX:N5	2.26	0.68
2:S0:193:GLN:O	2:S0:195:TRP:N	2.26	0.68
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.58	0.68
36:1:1430:U:O4	64:N8:3:SER:OG	2.12	0.68
41:L4:338:LYS:O	41:L4:340:GLY:N	2.25	0.68
3:S1:51:SER:HA	3:S1:57:ALA:H	1.58	0.68
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C2:124:LYS:O	14:C2:126:TRP:N	2.25	0.68
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	1.75	0.68
36:1:1565:G:N2	36:1:1574:C:O2	2.26	0.68
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.74	0.68
1:6:1202:A:OP1	85:6:2092:OHX:N2	2.26	0.68
1:6:1445:G:N1	33:e1:87:THR:O	2.26	0.68
40:l3:218:ILE:HG13	40:l3:276:THR:HG23	1.74	0.68
44:l7:228:SER:HA	44:l7:232:ARG:HH21	1.58	0.68
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.26	0.68
36:5:993:G:OP1	85:5:3754:OHX:N6	2.26	0.68
7:S5:57:SER:O	7:S5:59:VAL:N	2.22	0.68
8:S6:153:VAL:O	8:S6:155:ASP:N	2.27	0.68
10:S8:11:ARG:O	13:C1:133:LYS:NZ	2.26	0.68
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	1.75	0.68
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.58	0.68
1:6:471:A:OP2	85:6:2066:OHX:N5	2.27	0.68
36:5:560:G:H5'	50:m4:80:THR:HG21	1.76	0.68
36:5:2258:U:OP2	85:5:3792:OHX:N4	2.27	0.68
47:m0:76:MET:HE1	47:m0:148:VAL:HA	1.75	0.68
1:2:66:U:H5	8:S6:173:PRO:HG3	1.59	0.68
1:2:511:A:OP2	11:S9:176:ASN:ND2	2.27	0.68
14:C2:52:LEU:O	14:C2:85:LYS:NZ	2.27	0.68
47:M0:76:MET:HE1	47:M0:138:VAL:HG21	1.76	0.68
54:M8:37:ALA:O	54:M8:46:LYS:NZ	2.27	0.68
59:N3:136:VAL:HG12	59:N3:137:VAL:HG23	1.75	0.68
74:O8:32:ASN:O	74:O8:34:ALA:N	2.27	0.68
1:6:1769:U:OP2	85:6:2106:OHX:N2	2.27	0.68
9:s7:67:LEU:HG	9:s7:94:ALA:HB2	1.74	0.68
19:c7:99:VAL:HG13	19:c7:118:PRO:HB2	1.75	0.68
36:5:210:U:O2	41:l4:217:LYS:NZ	2.26	0.68
66:o0:8:GLU:HB3	66:o0:13:LYS:HE2	1.76	0.68
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.75	0.68
1:2:1160:A:H2'	1:2:1161:C:C6	2.29	0.68
30:D8:52:ASP:N	30:D8:52:ASP:OD1	2.26	0.68
36:1:357:A:OP2	85:O9:101:OHX:N4	2.27	0.68
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.75	0.68
44:L7:25:GLN:H	44:L7:28:ALA:HB3	1.59	0.68
1:6:383:G:N7	85:6:2111:OHX:N5	2.41	0.68
5:s3:29:LEU:HD21	5:s3:69:LEU:HD21	1.76	0.68
34:sR:177:MET:HE1	34:sR:193:ILE:HG13	1.74	0.68
36:5:990:U:H1'	57:n1:101:CYS:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:28:VAL:HG22	46:l9:33:THR:HB	1.75	0.68
1:2:639:U:OP1	9:S7:117:THR:OG1	2.11	0.68
1:2:1570:A:OP1	85:2:2112:OHX:N5	2.27	0.68
3:S1:212:VAL:O	3:S1:214:LYS:N	2.27	0.68
5:S3:28:GLU:OE2	12:C0:56:LYS:NZ	2.24	0.68
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	1.59	0.68
37:3:26:C:H5'	42:L5:56:THR:HB	1.76	0.68
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.27	0.68
47:M0:33:ILE:HD13	47:M0:33:ILE:H	1.57	0.68
47:M0:36:LEU:HD21	47:M0:69:ARG:HH11	1.58	0.68
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.76	0.68
17:c5:37:ALA:O	17:c5:42:ARG:NH1	2.26	0.68
36:1:1752:A:OP2	85:1:3907:OHX:N5	2.27	0.67
36:1:3074:G:OP1	85:1:3899:OHX:N1	2.27	0.67
11:s9:58:ASP:O	11:s9:61:THR:OG1	2.11	0.67
1:2:322:G:O2'	10:S8:10:LYS:NZ	2.27	0.67
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.76	0.67
36:1:2233:A:OP2	85:1:3904:OHX:N5	2.27	0.67
62:N6:112:ASP:H	62:N6:115:ARG:HB2	1.58	0.67
1:6:845:G:H2'	1:6:846:G:H8	1.60	0.67
28:d6:43:ASN:OD1	28:d6:66:LYS:NZ	2.27	0.67
34:sR:256:THR:N	34:sR:259:GLY:O	2.26	0.67
36:5:2818:U:H5'	36:5:2818:U:H6	1.58	0.67
36:5:3241:G:H2'	36:5:3245:A:C8	2.29	0.67
66:o0:99:ASP:N	66:o0:99:ASP:OD2	2.26	0.67
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.27	0.67
20:C8:139:LYS:O	20:C8:143:ARG:NH1	2.23	0.67
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.26	0.67
70:O4:91:ARG:HG3	70:O4:95:ILE:HD13	1.75	0.67
79:Q3:73:THR:HG22	79:Q3:76:ALA:H	1.60	0.67
1:6:143:G:N7	8:s6:177:ARG:NH2	2.43	0.67
36:5:1841:A:N3	75:o9:45:ARG:NH2	2.43	0.67
37:7:1:G:N3	42:l5:269:SER:OG	2.26	0.67
43:l6:35:VAL:O	43:l6:38:THR:OG1	2.07	0.67
3:S1:181:LEU:O	3:S1:183:GLN:N	2.27	0.67
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.23	0.67
35:SM:49:LYS:N	36:1:1019:G:OP1	2.28	0.67
36:1:1238:C:N4	36:1:1245:A:OP2	2.26	0.67
36:1:3148:U:O4	85:1:3971:OHX:N2	2.27	0.67
40:L3:188:ILE:HD12	40:L3:189:SER:H	1.58	0.67
36:5:700:C:OP1	49:m3:65:TYR:OH	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2233:A:OP2	85:5:3806:OHX:N5	2.27	0.67
1:2:574:G:O6	25:D3:65:ASN:ND2	2.22	0.67
1:2:1291:G:H5'	4:S2:119:LYS:HE3	1.77	0.67
5:S3:182:LEU:H	5:S3:182:LEU:HD12	1.59	0.67
36:1:155:G:H5''	36:1:156:G:C8	2.29	0.67
87:1:3401:ANM:C15	87:1:3401:ANM:C5	2.73	0.67
49:M3:3:ILE:HG12	64:N8:34:MET:HE2	1.75	0.67
7:s5:79:ASN:OD1	7:s5:83:ARG:NH2	2.28	0.67
10:s8:82:VAL:HG13	10:s8:101:ILE:HG22	1.76	0.67
16:c4:25:ASP:OD1	16:c4:26:THR:N	2.27	0.67
49:m3:166:ALA:HB1	64:n8:147:LEU:HD21	1.76	0.67
6:S4:131:LEU:HD22	6:S4:137:PRO:HB3	1.77	0.67
7:S5:143:ARG:NH1	30:D8:57:MET:SD	2.68	0.67
7:S5:149:VAL:HG23	30:D8:67:ARG:H	1.58	0.67
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.77	0.67
51:M5:106:VAL:HG11	51:M5:132:VAL:HG21	1.77	0.67
36:5:1024:G:N2	36:5:1026:A:OP2	2.28	0.67
51:m5:14:LYS:HA	51:m5:19:LEU:HD23	1.77	0.67
62:n6:45:ILE:HD12	62:n6:119:ILE:HG23	1.76	0.67
81:p0:56:ASN:ND2	81:p0:80:VAL:O	2.28	0.67
1:2:740:A:H2'	1:2:741:C:H5''	1.76	0.67
8:S6:78:THR:HG22	8:S6:92:ARG:HG2	1.77	0.67
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	1.75	0.67
1:6:397:A:O3'	10:s8:50:GLY:HA2	1.94	0.67
1:6:1696:G:O2'	1:6:1698:G:N7	2.17	0.67
3:s1:28:GLU:OE2	3:s1:94:LYS:NZ	2.24	0.67
36:5:284:A:OP2	78:q2:41:ARG:NH1	2.28	0.67
36:5:1025:A:H3'	36:5:1026:A:H4'	1.76	0.67
36:5:2174:G:OP2	39:l2:193:ARG:NH1	2.28	0.67
37:7:121:U:H5''	42:l5:265:TYR:HE1	1.57	0.67
51:m5:46:ASP:OD1	51:m5:50:ARG:NH2	2.28	0.67
56:n0:12:ARG:HB3	56:n0:24:LEU:HD23	1.77	0.67
72:o6:25:LYS:HB2	72:o6:28:TYR:HD2	1.60	0.67
6:S4:50:ASN:O	6:S4:53:LYS:NZ	2.25	0.67
17:C5:126:VAL:HG13	17:C5:127:ARG:H	1.59	0.67
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.27	0.67
42:L5:85:ARG:NH1	42:L5:254:LYS:H	1.92	0.67
1:6:40:A:O2'	85:6:2071:OHX:N4	2.27	0.67
1:6:333:A:OP1	10:s8:31:ARG:NH2	2.28	0.67
1:6:571:G:H5'	25:d3:114:LYS:HE2	1.77	0.67
1:6:1041:G:OP1	85:6:2137:OHX:N4	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	1.76	0.67
36:5:3068:U:OP2	55:m9:62:ARG:NH2	2.28	0.67
1:2:1280:C:H2'	1:2:1281:G:H8	1.60	0.67
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.76	0.67
7:S5:152:GLY:O	7:S5:154:ALA:N	2.27	0.67
36:1:624:G:OP2	85:1:3993:OHX:N3	2.28	0.67
36:1:1789:G:O6	85:1:4019:OHX:N4	2.28	0.67
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.76	0.67
1:2:484:C:H42	1:2:503:G:H22	1.42	0.67
1:2:743:U:OP1	9:S7:108:GLN:N	2.27	0.67
1:2:1711:C:H2'	1:2:1712:A:H5''	1.75	0.67
36:1:2174:G:OP2	39:L2:193:ARG:NH1	2.21	0.67
44:L7:143:THR:HG22	44:L7:241:LYS:HE3	1.76	0.67
1:6:895:G:H1	1:6:917:U:H3	1.41	0.67
16:c4:85:ALA:H	16:c4:119:THR:HG22	1.60	0.67
36:5:132:C:H2'	36:5:133:U:H5''	1.76	0.67
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.28	0.66
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.25	0.66
36:1:2579:G:O6	85:1:3786:OHX:N2	2.28	0.66
36:1:3035:A:OP2	85:1:3934:OHX:N4	2.28	0.66
1:6:1698:G:N2	1:6:1699:G:N7	2.43	0.66
47:m0:43:VAL:HG21	47:m0:197:VAL:HB	1.75	0.66
34:SR:238:ASP:OD2	34:SR:258:THR:OG1	2.09	0.66
36:1:1114:U:H5''	64:N8:22:ILE:HD12	1.77	0.66
42:L5:83:LEU:HD22	42:L5:88:ILE:HD12	1.77	0.66
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.77	0.66
1:6:976:G:O6	85:6:2043:OHX:N6	2.27	0.66
6:s4:73:ASP:OD2	6:s4:122:LYS:NZ	2.20	0.66
71:o5:45:LYS:O	71:o5:49:LYS:HG2	1.95	0.66
1:2:535:A:OP1	11:S9:168:ARG:NH1	2.26	0.66
1:2:1382:A:H5''	22:D0:60:THR:HG22	1.78	0.66
36:1:801:A:O2'	85:1:3841:OHX:N2	2.28	0.66
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.28	0.66
54:M8:185:LYS:HG2	54:M8:186:VAL:HG23	1.76	0.66
1:6:1649:G:N7	85:6:2073:OHX:N2	2.42	0.66
36:5:2400:G:O2'	36:5:2401:A:OP1	2.14	0.66
1:2:591:A:H2'	1:2:592:A:H8	1.60	0.66
1:2:706:A:N1	1:2:734:A:N6	2.43	0.66
36:1:1148:G:O6	85:1:4017:OHX:N3	2.28	0.66
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.44	0.66
36:1:1596:C:H2'	36:1:1597:C:C6	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2874:G:O3'	87:1:3401:ANM:H11	1.95	0.66
51:M5:155:VAL:O	51:M5:162:ARG:NH2	2.28	0.66
36:5:3122:A:N1	46:l9:70:THR:HG21	2.10	0.66
37:7:110:G:OP2	42:l5:279:LYS:NZ	2.25	0.66
1:2:245:U:O4	85:2:2052:OHX:N5	2.28	0.66
1:2:452:A:OP2	85:2:1998:OHX:N5	2.28	0.66
3:S1:36:SER:O	3:S1:38:PHE:N	2.29	0.66
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.27	0.66
36:1:2108:C:H1'	36:1:3344:A:C8	2.30	0.66
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.42	0.66
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.10	0.66
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	1.77	0.66
42:L5:56:THR:O	42:L5:58:LYS:N	2.28	0.66
66:O0:33:SER:HB2	66:O0:93:LEU:HD21	1.78	0.66
1:6:140:A:H1'	8:s6:179:VAL:HG21	1.75	0.66
3:s1:109:LYS:O	3:s1:112:SER:OG	2.13	0.66
11:s9:27:GLU:OE1	11:s9:39:LYS:NZ	2.27	0.66
36:5:900:G:H1'	36:5:1589:A:N6	2.11	0.66
73:o7:66:TYR:OH	73:o7:73:ARG:NH2	2.29	0.66
1:2:1240:U:OP2	85:2:2101:OHX:N1	2.29	0.66
1:2:1370:U:O2'	1:2:1371:A:OP2	2.13	0.66
1:2:1516:A:OP1	22:D0:88:LYS:NZ	2.23	0.66
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	1.76	0.66
12:C0:31:LYS:NZ	12:C0:36:ASP:O	2.28	0.66
22:D0:84:MET:HE3	31:D9:51:GLY:HA3	1.77	0.66
36:1:1952:G:H3'	36:1:1953:G:H5''	1.78	0.66
18:c6:109:PHE:O	18:c6:113:ASP:N	2.28	0.66
36:5:2875:U:H3	36:5:2952:G:H1	1.42	0.66
36:5:2985:C:H2'	36:5:2986:U:C6	2.31	0.66
1:2:1339:C:O2'	1:2:1341:A:N7	2.27	0.66
1:2:1562:G:OP1	21:C9:89:ARG:NH2	2.29	0.66
1:2:1796:C:OP1	28:D6:87:ARG:NH1	2.29	0.66
36:1:516:A:O3'	44:L7:60:ARG:NH2	2.28	0.66
36:1:1618:G:H4'	38:4:129:C:H1'	1.78	0.66
56:N0:91:TYR:HD1	56:N0:137:ARG:NH1	1.94	0.66
19:c7:28:PHE:HA	19:c7:55:THR:HG21	1.77	0.66
36:5:2433:U:H1'	51:m5:125:SER:HB3	1.78	0.66
1:2:637:C:O2	9:S7:114:ARG:NH2	2.29	0.66
1:2:854:U:O4	55:M9:173:ARG:NH2	2.29	0.66
1:2:1297:G:N2	1:2:1300:A:OP2	2.26	0.66
5:S3:220:PRO:HG3	34:SR:221:MET:HE1	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:180:C:H2'	36:1:181:U:H6	1.61	0.66
38:4:87:G:OP2	71:O5:7:TYR:OH	2.11	0.66
1:6:975:C:H5''	15:c3:109:LYS:HD2	1.77	0.66
1:6:1699:G:H22	1:6:1702:A:H5''	1.61	0.66
15:c3:65:VAL:HG23	15:c3:66:ILE:HG23	1.75	0.66
34:sR:64:HIS:ND1	34:sR:86:ASP:OD2	2.29	0.66
36:5:1317:A:OP1	85:5:3939:OHX:N1	2.28	0.66
36:5:2736:A:OP1	57:n1:92:ARG:NH1	2.29	0.66
1:2:482:U:H2'	1:2:483:A:H8	1.60	0.66
5:S3:127:MET:HE1	5:S3:133:GLY:HA2	1.78	0.66
16:C4:81:VAL:HG22	16:C4:115:ILE:HB	1.77	0.66
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	1.77	0.66
34:SR:16:HIS:ND1	34:SR:37:SER:OG	2.26	0.66
36:1:109:A:H4'	36:1:110:G:OP1	1.96	0.66
36:1:3166:C:H42	36:1:3284:G:H1	1.43	0.66
37:3:75:G:OP1	85:3:210:OHX:N6	2.28	0.66
41:L4:292:SER:OG	41:L4:293:SER:N	2.21	0.66
53:M7:53:ASP:O	85:M7:205:OHX:N3	2.29	0.66
72:O6:98:ARG:H	72:O6:98:ARG:HD2	1.60	0.66
1:6:833:U:O4	85:6:2064:OHX:N2	2.28	0.66
34:sR:80:ALA:HB3	34:sR:92:TRP:HB2	1.78	0.66
36:5:1383:G:O6	85:5:3780:OHX:N6	2.29	0.66
36:5:1631:C:H5''	36:5:1632:A:H5''	1.77	0.66
36:5:3115:C:OP1	46:I9:62:ARG:NH2	2.29	0.66
1:2:284:G:N7	8:S6:188:ARG:NH1	2.44	0.66
1:2:1649:G:N7	85:2:2010:OHX:N1	2.44	0.66
2:S0:105:GLY:N	2:S0:135:GLU:OE2	2.19	0.66
25:D3:30:LYS:HE2	25:D3:34:LEU:HD11	1.75	0.66
52:M6:84:LEU:HD13	52:M6:102:LEU:HD21	1.77	0.66
1:6:901:G:N2	16:c4:54:GLU:OE1	2.28	0.66
1:6:1735:U:O4	85:6:2085:OHX:N5	2.29	0.66
11:s9:82:ARG:HH11	11:s9:149:ARG:HD3	1.60	0.66
15:c3:40:TYR:HB3	15:c3:45:LEU:HD12	1.76	0.66
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.78	0.65
51:M5:143:ARG:HE	71:O5:92:LEU:HD23	1.61	0.65
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.29	0.65
38:8:106:C:O2'	85:8:224:OHX:N5	2.28	0.65
46:I9:37:ASN:OD1	46:I9:39:LYS:HB2	1.96	0.65
1:2:176:C:OP1	85:2:2032:OHX:N3	2.29	0.65
1:2:1785:U:OP1	16:C4:136:ARG:NH1	2.27	0.65
21:C9:38:LYS:NZ	21:C9:43:ASN:O	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.78	0.65
36:1:562:C:OP2	50:M4:77:ARG:NH1	2.27	0.65
87:1:3401:ANM:H63	87:1:3401:ANM:H152	1.77	0.65
2:s0:183:ARG:HG2	2:s0:191:ARG:HG2	1.78	0.65
36:5:314:U:O4	85:5:4027:OHX:N5	2.29	0.65
36:5:2840:C:OP1	85:5:3974:OHX:N3	2.29	0.65
6:S4:240:LYS:H	6:S4:240:LYS:HE2	1.60	0.65
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.69	0.65
37:3:4:U:H2'	37:3:5:G:C8	2.31	0.65
10:s8:36:THR:HG22	10:s8:57:ALA:O	1.97	0.65
34:sR:164:ASP:O	34:sR:166:SER:N	2.29	0.65
36:5:2425:G:OP2	51:m5:90:ASN:ND2	2.24	0.65
53:m7:105:LYS:HB3	53:m7:107:LEU:HD13	1.78	0.65
1:2:565:C:O2	85:2:1999:OHX:N5	2.29	0.65
1:2:1615:C:O2'	1:2:1616:G:OP2	2.12	0.65
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.29	0.65
11:S9:65:LYS:HA	11:S9:70:LEU:HD21	1.77	0.65
24:D2:66:ASN:OD1	24:D2:66:ASN:N	2.24	0.65
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	1.78	0.65
36:1:1720:U:O4	55:M9:125:LYS:NZ	2.29	0.65
36:1:2572:C:O2'	36:1:2573:G:O4'	2.14	0.65
33:e1:144:CYS:HB3	33:e1:147:VAL:HG12	1.79	0.65
36:5:2146:C:OP1	39:l2:200:ARG:NH1	2.29	0.65
36:5:2704:A:OP2	85:5:3742:OHX:N2	2.30	0.65
40:l3:227:GLU:HG3	40:l3:270:ARG:HE	1.61	0.65
41:L4:98:ARG:HD2	41:L4:99:MET:O	1.96	0.65
49:M3:56:PRO:HG3	49:M3:74:GLY:O	1.97	0.65
4:s2:132:ALA:O	4:s2:135:SER:OG	2.13	0.65
36:5:2211:U:O4	85:5:3806:OHX:N4	2.29	0.65
36:5:2786:G:N2	64:n8:58:MET:SD	2.65	0.65
40:l3:10:ARG:NH1	40:l3:11:HIS:O	2.29	0.65
41:l4:206:LEU:HD23	41:l4:226:GLU:HB2	1.79	0.65
50:m4:13:ARG:HB2	50:m4:65:LEU:HD12	1.79	0.65
36:1:2578:U:OP1	85:1:4002:OHX:N5	2.29	0.65
63:N7:17:ARG:NH2	63:N7:18:TYR:OH	2.29	0.65
1:6:491:C:H42	1:6:497:G:H21	1.45	0.65
1:6:691:C:OP1	1:6:696:C:N4	2.29	0.65
36:5:1556:C:O2'	85:5:3798:OHX:N1	2.30	0.65
50:m4:55:ARG:NH2	50:m4:76:ALA:O	2.28	0.65
63:n7:36:HIS:CD2	63:n7:74:VAL:HG11	2.31	0.65
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:273:G:H1	1:2:283:U:H3	1.44	0.65
3:S1:180:THR:HG22	3:S1:181:LEU:HD22	1.77	0.65
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	1.79	0.65
1:6:190:C:N4	1:6:196:G:O6	2.30	0.65
1:6:729:G:O2'	1:6:730:G:O5'	2.15	0.65
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.79	0.65
36:5:1320:C:O2	56:n0:115:ARG:NH2	2.29	0.65
38:8:38:U:H5	71:o5:83:LYS:HA	1.60	0.65
46:l9:173:ARG:HB2	46:l9:173:ARG:HH11	1.61	0.65
49:m3:56:PRO:HG3	49:m3:74:GLY:O	1.97	0.65
6:S4:151:ASP:HB3	6:S4:154:ILE:HG13	1.79	0.65
57:N1:124:VAL:HG12	57:N1:125:ALA:H	1.61	0.65
1:6:1161:C:OP1	85:6:2147:OHX:N6	2.30	0.65
9:s7:112:ARG:NH2	9:s7:117:THR:OG1	2.30	0.65
13:c1:33:ARG:NH1	13:c1:53:TYR:O	2.30	0.65
36:5:172:G:N7	85:5:4069:OHX:N1	2.44	0.65
62:n6:112:ASP:HB3	62:n6:115:ARG:HB2	1.79	0.65
64:n8:45:MET:HE2	64:n8:45:MET:HA	1.79	0.65
1:2:142:G:O6	8:S6:177:ARG:NH1	2.30	0.65
26:D4:35:VAL:HG13	26:D4:36:SER:H	1.61	0.65
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.96	0.65
3:s1:129:THR:OG1	3:s1:131:ASP:O	2.11	0.65
20:c8:100:THR:HG23	20:c8:105:VAL:HG12	1.78	0.65
21:c9:65:ILE:HG23	21:c9:71:VAL:HG13	1.78	0.65
36:5:1098:A:OP2	57:n1:130:ARG:NH1	2.30	0.65
36:5:2137:U:OP1	85:5:3815:OHX:N5	2.30	0.65
85:5:3754:OHX:N4	57:n1:13:TYR:O	2.30	0.65
1:2:635:A:H2'	1:2:636:A:H8	1.61	0.65
6:S4:179:LYS:N	6:S4:194:THR:O	2.29	0.65
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.79	0.65
1:6:482:U:H3	1:6:505:A:H61	1.42	0.65
1:6:833:U:O4	85:6:2064:OHX:N5	2.29	0.65
15:c3:66:ILE:HG13	15:c3:67:THR:HG23	1.78	0.65
36:5:1110:U:H2'	36:5:1111:U:C6	2.31	0.65
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.79	0.64
36:1:1696:A:OP2	85:1:4011:OHX:N3	2.29	0.64
36:1:3139:A:OP1	40:L3:274:SER:OG	2.15	0.64
51:M5:99:ARG:HD3	51:M5:167:THR:HB	1.79	0.64
53:M7:16:SER:HB3	53:M7:149:VAL:HG22	1.79	0.64
1:6:1502:G:N7	21:c9:102:ARG:NH2	2.44	0.64
36:5:361:A:O3'	73:o7:45:ARG:NH2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:371:G:O6	85:5:4042:OHX:N5	2.30	0.64
36:5:2814:G:OP1	41:14:73:ARG:NH2	2.29	0.64
38:8:38:U:O2'	71:o5:83:LYS:NZ	2.28	0.64
1:2:4:C:O2'	11:S9:17:ARG:NH1	2.29	0.64
7:S5:216:GLU:OE2	7:S5:219:ARG:NH2	2.29	0.64
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.28	0.64
8:S6:160:ARG:HG3	60:N4:84:GLY:HA3	1.78	0.64
20:C8:49:LYS:NZ	20:C8:79:TYR:O	2.31	0.64
35:SM:53:ARG:HE	35:SM:54:PRO:HD2	1.62	0.64
36:1:1233:G:H1	36:1:1255:C:H42	1.44	0.64
36:1:2899:C:C5	46:L9:171:ASP:HA	2.32	0.64
36:1:3294:A:H5'	40:L3:128:LYS:HG3	1.78	0.64
36:1:3364:C:OP1	85:1:3788:OHX:N5	2.30	0.64
1:6:1275:A:N3	5:s3:141:LYS:NZ	2.45	0.64
11:s9:106:GLU:O	11:s9:111:THR:OG1	2.14	0.64
24:d2:37:PHE:CE2	24:d2:103:ILE:HD11	2.32	0.64
36:5:300:G:O6	85:5:4027:OHX:N2	2.29	0.64
49:m3:59:ARG:HE	49:m3:69:VAL:HG23	1.61	0.64
53:m7:125:GLN:HB2	53:m7:141:SER:HB2	1.78	0.64
1:2:129:U:O2	85:2:1994:OHX:N1	2.30	0.64
24:D2:25:VAL:HG23	24:D2:63:VAL:HB	1.79	0.64
36:1:1613:A:OP1	74:O8:2:ALA:N	2.31	0.64
85:1:3895:OHX:N2	68:O2:14:THR:O	2.30	0.64
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	1.79	0.64
1:6:454:U:H5''	1:6:455:C:C5	2.33	0.64
30:d8:11:LYS:O	30:d8:31:GLU:N	2.22	0.64
36:5:188:U:H1'	36:5:208:C:H1'	1.79	0.64
36:5:1196:C:O2	85:5:3844:OHX:N1	2.30	0.64
37:7:1:G:O2'	42:l5:270:LYS:HB3	1.97	0.64
38:8:71:A:O2'	62:n6:52:ARG:NH2	2.30	0.64
64:n8:133:LEU:HD11	64:n8:137:LYS:HE3	1.80	0.64
1:2:186:C:H42	1:2:199:G:H1	1.43	0.64
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.77	0.64
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.79	0.64
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.78	0.64
20:C8:125:ILE:HG12	35:SM:61:ILE:HG23	1.78	0.64
4:s2:115:ILE:HD11	4:s2:212:LYS:HD2	1.77	0.64
4:s2:126:ARG:HA	4:s2:129:ILE:HD12	1.80	0.64
40:l3:81:THR:HG21	40:l3:322:ILE:HD13	1.78	0.64
70:o4:99:LYS:O	70:o4:103:LYS:HG2	1.96	0.64
1:2:154:G:O6	26:D4:128:LYS:NZ	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:520:A:H2'	1:2:521:A:C8	2.32	0.64
4:S2:87:GLN:HG2	4:S2:96:THR:HB	1.79	0.64
21:C9:5:SER:HG	21:C9:66:TYR:HH	1.43	0.64
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.31	0.64
36:1:1498:A:H2'	36:1:1499:C:C6	2.33	0.64
20:c8:30:TYR:HE2	20:c8:40:ARG:HH11	1.43	0.64
41:l4:138:ARG:HH21	41:l4:240:PRO:HB2	1.61	0.64
1:2:588:U:O2	32:E0:57:ASN:ND2	2.29	0.64
1:2:732:G:O2'	1:2:733:A:O4'	2.15	0.64
21:C9:97:SER:O	21:C9:101:ASN:ND2	2.31	0.64
36:1:2169:G:O6	85:1:3772:OHX:N4	2.31	0.64
59:N3:125:LEU:HB3	59:N3:126:TRP:CD1	2.33	0.64
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.78	0.64
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.78	0.64
2:s0:8:ASP:O	2:s0:54:TRP:NE1	2.27	0.64
6:s4:199:GLU:N	6:s4:207:LEU:O	2.29	0.64
36:5:2187:G:OP2	85:5:3816:OHX:N4	2.31	0.64
36:5:3103:A:OP2	85:5:3995:OHX:N2	2.30	0.64
4:S2:69:ILE:HD11	4:S2:133:LYS:HB3	1.80	0.64
35:SM:67:GLY:O	35:SM:69:ARG:N	2.31	0.64
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.31	0.64
40:L3:291:GLU:O	40:L3:293:ASN:N	2.30	0.64
45:L8:71:VAL:HG22	45:L8:76:ALA:HB2	1.78	0.64
70:O4:8:ARG:HH21	70:O4:31:ARG:HD3	1.63	0.64
1:6:902:G:N1	16:c4:51:ASP:OD1	2.22	0.64
13:c1:82:ARG:O	13:c1:110:HIS:ND1	2.31	0.64
19:c7:95:ARG:N	19:c7:96:SER:HB3	2.12	0.64
36:5:145:G:O6	85:5:3861:OHX:N5	2.31	0.64
36:5:1171:G:O6	85:5:3846:OHX:N1	2.31	0.64
36:5:2369:G:OP2	85:5:3752:OHX:N5	2.30	0.64
37:7:28:C:OP1	48:m1:137:ARG:HD3	1.96	0.64
41:l4:47:ARG:NH1	41:l4:109:TRP:O	2.31	0.64
57:n1:118:GLU:OE1	57:n1:122:GLN:NE2	2.31	0.64
3:S1:154:SER:O	3:S1:154:SER:OG	2.14	0.64
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.62	0.64
62:N6:79:ALA:HB1	62:N6:98:ASN:HB3	1.79	0.64
1:6:512:A:OP2	11:s9:173:ALA:N	2.31	0.64
1:6:653:C:N4	1:6:677:G:H1	1.95	0.64
59:n3:2:SER:N	59:n3:56:ASP:OD1	2.31	0.64
1:2:143:G:N7	8:S6:177:ARG:NH2	2.45	0.64
34:SR:166:SER:HA	34:SR:184:ASN:HD21	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3215:A:O5'	50:M4:121:MET:HE1	1.98	0.64
5:s3:42:THR:OG1	5:s3:45:LYS:O	2.16	0.64
15:c3:74:ILE:O	15:c3:78:ASN:ND2	2.26	0.64
21:c9:16:ASN:OD1	21:c9:56:LYS:NZ	2.30	0.64
40:l3:188:ILE:H	40:l3:188:ILE:HD12	1.63	0.64
62:n6:36:SER:HB2	62:n6:37:LYS:HE2	1.80	0.64
1:2:1114:G:O2'	1:2:1130:G:O6	2.16	0.64
7:S5:144:GLU:OE1	7:S5:225:ARG:NH2	2.31	0.64
18:C6:13:LYS:HD3	18:C6:14:LYS:HG3	1.80	0.64
18:C6:22:VAL:HG22	18:C6:65:ILE:HD13	1.79	0.64
25:D3:93:LEU:HD21	32:E0:8:LEU:HD13	1.80	0.64
36:1:2683:U:H2'	36:1:2684:C:H6	1.63	0.64
41:L4:237:GLN:O	41:L4:246:ARG:HG3	1.97	0.64
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.78	0.64
51:M5:186:GLY:O	51:M5:190:THR:HG22	1.98	0.64
74:O8:46:ARG:NH1	74:O8:47:GLY:O	2.29	0.64
2:s0:163:ASN:O	2:s0:165:ARG:N	2.30	0.64
17:c5:44:ARG:NH2	17:c5:82:ASN:O	2.31	0.64
19:c7:51:ALA:O	19:c7:55:THR:OG1	2.14	0.64
36:5:1523:U:OP2	36:5:1604:G:O2'	2.15	0.64
40:l3:303:LYS:HD2	40:l3:361:THR:HG21	1.80	0.64
49:m3:48:PRO:HB2	71:o5:117:ALA:HB2	1.80	0.64
34:SR:169:ILE:HG13	34:SR:181:TRP:HB2	1.80	0.63
36:1:283:G:OP1	78:Q2:45:ARG:NH2	2.31	0.63
36:1:2563:G:OP1	45:L8:27:THR:OG1	2.14	0.63
36:1:2960:C:OP1	85:1:3862:OHX:N4	2.31	0.63
85:1:3737:OHX:N5	51:M5:91:GLU:OE2	2.31	0.63
85:1:3831:OHX:N4	55:M9:87:ALA:O	2.30	0.63
69:O3:6:ARG:NH1	69:O3:8:TYR:O	2.30	0.63
1:6:513:U:H2'	1:6:514:G:C8	2.33	0.63
1:6:1401:A:O3'	19:c7:10:LYS:NZ	2.30	0.63
18:c6:21:HIS:HB2	18:c6:66:ARG:HB3	1.80	0.63
36:5:783:A:OP2	85:5:4028:OHX:N6	2.31	0.63
58:n2:18:ASP:OD2	58:n2:20:SER:OG	2.14	0.63
70:o4:58:ARG:HG3	70:o4:59:PRO:HD2	1.79	0.63
1:2:895:G:H1	1:2:917:U:H3	1.47	0.63
13:C1:29:LYS:O	13:C1:31:THR:N	2.31	0.63
24:D2:46:TYR:HB3	24:D2:69:LEU:HD13	1.80	0.63
36:1:2873:U:H2'	87:1:3401:ANM:H2	1.79	0.63
40:L3:171:LEU:O	85:L3:403:OHX:N6	2.31	0.63
63:N7:9:LYS:HB3	63:N7:25:ILE:HD12	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1351:G:OP1	18:c6:66:ARG:NH1	2.31	0.63
3:s1:126:THR:HG22	3:s1:136:ARG:HE	1.63	0.63
6:s4:248:ILE:HA	6:s4:251:GLU:HB2	1.80	0.63
15:c3:55:ARG:NH1	15:c3:56:ASP:OD1	2.32	0.63
36:5:535:G:O6	85:5:3926:OHX:N2	2.31	0.63
37:7:28:C:H5''	48:m1:137:ARG:HG2	1.79	0.63
46:l9:4:ILE:HD11	56:n0:148:LEU:HD21	1.80	0.63
1:2:1459:C:OP1	20:C8:126:ARG:NH2	2.31	0.63
1:2:1767:G:OP2	1:2:1770:U:O2'	2.14	0.63
85:2:1992:OHX:N3	15:C3:12:SER:O	2.31	0.63
26:D4:36:SER:OG	26:D4:37:LYS:N	2.29	0.63
36:1:2718:U:OP2	85:1:3843:OHX:N3	2.31	0.63
36:1:3151:U:OP1	40:L3:128:LYS:NZ	2.31	0.63
46:L9:163:GLN:O	46:L9:166:ARG:HD3	1.97	0.63
61:N5:80:ASN:ND2	61:N5:126:LEU:O	2.32	0.63
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.17	0.63
36:5:860:G:C6	39:l2:181:LYS:HB2	2.34	0.63
85:5:3822:OHX:N2	85:5:4035:OHX:N1	2.46	0.63
85:5:3846:OHX:N3	44:l7:217:PRO:O	2.31	0.63
44:l7:33:ARG:HA	44:l7:36:ALA:HB3	1.80	0.63
65:n9:20:GLY:HA2	65:n9:22:LYS:HE2	1.81	0.63
41:L4:293:SER:O	41:L4:297:SER:OG	2.15	0.63
1:6:804:A:N3	24:d2:105:THR:HG22	2.13	0.63
20:c8:28:ILE:HD11	20:c8:56:LYS:HB2	1.79	0.63
36:5:549:U:H2'	36:5:550:A:C8	2.34	0.63
36:5:2522:G:H1	39:l2:70:ARG:HH22	1.45	0.63
44:l7:88:ARG:HD2	44:l7:90:LYS:O	1.98	0.63
63:n7:10:VAL:O	63:n7:83:THR:HG22	1.98	0.63
36:1:838:G:O6	79:Q3:4:ARG:NH2	2.32	0.63
66:O0:22:LYS:HB2	66:O0:94:GLU:HB2	1.80	0.63
1:6:235:G:H2'	1:6:236:A:H8	1.63	0.63
1:6:699:U:H3	1:6:739:G:H1	1.47	0.63
4:s2:225:LEU:HD13	24:d2:68:ARG:HA	1.79	0.63
26:d4:86:GLU:OE2	26:d4:90:ARG:NH1	2.31	0.63
36:5:90:C:OP1	64:n8:59:ARG:NH1	2.32	0.63
36:5:209:A:OP1	41:l4:161:LYS:NZ	2.31	0.63
53:m7:48:LEU:HD22	53:m7:88:VAL:HG13	1.80	0.63
53:m7:53:ASP:O	85:m7:204:OHX:N6	2.31	0.63
65:n9:23:LYS:HB3	65:n9:24:PRO:HD3	1.79	0.63
78:q2:2:VAL:N	78:q2:90:HIS:O	2.32	0.63
1:2:1492:A:HO2'	1:2:1493:A:H8	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.24	0.63
35:SM:23:LYS:H	35:SM:23:LYS:HD2	1.64	0.63
36:1:1747:G:OP1	74:O8:42:LYS:NZ	2.30	0.63
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.31	0.63
38:4:77:A:OP2	85:4:219:OHX:N2	2.31	0.63
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.31	0.63
71:O5:10:ARG:NH1	71:O5:60:GLU:OE2	2.32	0.63
1:6:933:A:OP2	28:d6:37:LYS:NZ	2.32	0.63
1:6:1793:G:O2'	28:d6:5:ARG:NH2	2.32	0.63
53:m7:25:SER:O	53:m7:29:THR:HG23	1.98	0.63
69:o3:47:LYS:NZ	69:o3:104:PRO:O	2.31	0.63
6:S4:141:THR:OG1	6:S4:143:ASP:OD2	2.17	0.63
36:1:3284:G:OP1	85:1:4003:OHX:N6	2.32	0.63
63:N7:53:VAL:HG21	63:N7:62:VAL:HG13	1.81	0.63
75:O9:44:TRP:CH2	75:O9:45:ARG:HD3	2.33	0.63
1:6:331:A:H5'	10:s8:33:PRO:HA	1.79	0.63
1:6:744:U:N3	1:6:808:U:O2	2.31	0.63
8:s6:2:LYS:HB3	8:s6:108:VAL:HG12	1.81	0.63
34:sR:63:GLY:HA3	34:sR:90:ARG:NH1	2.14	0.63
34:sR:178:VAL:HB	34:sR:192:PHE:HB2	1.80	0.63
36:5:2201:G:H21	39:l2:224:THR:HG21	1.61	0.63
1:2:641:G:H1	1:2:693:U:H3	1.44	0.63
1:2:1370:U:O4	85:2:2079:OHX:N1	2.32	0.63
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.81	0.63
36:1:626:U:O4	85:1:3860:OHX:N5	2.32	0.63
36:1:1659:U:H2'	36:1:1660:C:C6	2.34	0.63
36:1:2852:C:N3	47:M0:158:LYS:NZ	2.46	0.63
37:3:112:G:H2'	37:3:113:C:C6	2.34	0.63
38:4:24:G:OP1	62:N6:17:LYS:NZ	2.31	0.63
8:s6:163:THR:HA	8:s6:168:THR:HG22	1.78	0.63
36:5:2666:C:H2'	36:5:2667:A:H5''	1.80	0.63
36:5:2898:G:N7	76:q0:125:LYS:NZ	2.42	0.63
54:m8:177:GLY:O	54:m8:186:VAL:N	2.21	0.63
16:C4:111:ARG:NH2	28:D6:57:SER:O	2.32	0.63
36:1:361:A:O3'	73:O7:45:ARG:NH2	2.32	0.63
36:1:1427:U:OP2	64:N8:4:ARG:NH2	2.32	0.63
87:1:3401:ANM:C15	87:1:3401:ANM:C6	2.74	0.63
1:6:154:G:H1	1:6:160:C:H42	1.45	0.63
1:6:247:A:O2'	13:c1:37:ASN:O	2.16	0.63
1:6:291:G:H2'	1:6:292:U:C6	2.34	0.63
1:6:1726:G:N7	85:6:2109:OHX:N5	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:27:LYS:NZ	3:s1:49:ASN:OD1	2.32	0.63
17:c5:122:THR:HG22	17:c5:123:TYR:HD1	1.64	0.63
36:5:2971:A:H3'	36:5:2971:A:N3	2.14	0.63
49:m3:128:ARG:NH1	71:o5:109:ILE:O	2.32	0.63
68:o2:9:ILE:HG23	68:o2:63:THR:HB	1.80	0.63
5:S3:42:THR:OG1	5:S3:45:LYS:O	2.14	0.62
36:1:977:C:OP1	54:M8:141:ARG:NH2	2.31	0.62
39:L2:83:HIS:HB3	79:Q3:64:VAL:HG12	1.80	0.62
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.23	0.62
1:6:1336:A:OP1	85:6:2141:OHX:N1	2.32	0.62
5:s3:72:LEU:HD22	12:c0:65:TYR:HD1	1.64	0.62
11:s9:93:LEU:O	11:s9:96:VAL:HG22	1.98	0.62
36:5:2568:C:O2'	36:5:2569:A:O5'	2.14	0.62
36:5:3126:C:OP1	85:5:4034:OHX:N5	2.32	0.62
67:o1:75:ILE:HG12	67:o1:93:VAL:HG13	1.80	0.62
2:S0:112:THR:HG23	2:S0:115:PHE:HB2	1.80	0.62
5:S3:22:ASN:OD1	5:S3:34:TYR:OH	2.13	0.62
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.81	0.62
36:1:224:C:O2	62:N6:103:LYS:NZ	2.32	0.62
36:1:860:G:OP2	39:L2:181:LYS:NZ	2.32	0.62
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.00	0.62
1:6:1420:C:O2'	5:s3:160:SER:O	2.11	0.62
5:s3:176:LEU:HA	5:s3:181:VAL:HG12	1.81	0.62
6:s4:52:LEU:HB3	6:s4:54:TYR:HD2	1.63	0.62
18:c6:115:THR:O	18:c6:117:LEU:N	2.31	0.62
36:5:2761:G:N7	78:q2:63:LYS:NZ	2.44	0.62
38:8:41:A:O2'	73:o7:59:THR:HG22	1.98	0.62
53:m7:14:SER:OG	53:m7:151:THR:OG1	2.10	0.62
66:o0:34:LEU:HD23	66:o0:59:TYR:HB3	1.81	0.62
3:S1:32:ILE:HG13	3:S1:96:LEU:HD21	1.82	0.62
26:D4:52:LYS:O	26:D4:54:ALA:N	2.25	0.62
34:SR:132:LYS:NZ	34:SR:143:THR:OG1	2.32	0.62
34:SR:211:ILE:HG13	34:SR:225:LEU:HB2	1.81	0.62
36:1:1383:G:O3'	41:L4:138:ARG:NH2	2.32	0.62
40:L3:11:HIS:ND1	40:L3:234:GLY:O	2.32	0.62
45:L8:90:THR:HA	45:L8:214:LEU:HD21	1.81	0.62
57:N1:17:ARG:O	57:N1:18:ASP:HB2	1.99	0.62
1:6:1767:G:OP1	1:6:1770:U:H4'	1.99	0.62
85:6:2098:OHX:N3	10:s8:52:ASN:OD1	2.32	0.62
16:c4:87:GLY:HA3	16:c4:120:PRO:HG2	1.80	0.62
40:l3:4:ARG:HG3	40:l3:4:ARG:HH11	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:145:ILE:O	85:l4:401:OHX:N3	2.31	0.62
58:n2:21:SER:HB3	58:n2:107:PHE:HB2	1.80	0.62
63:n7:46:ILE:HG12	63:n7:49:TYR:CE1	2.35	0.62
78:q2:47:GLN:OE1	78:q2:54:THR:OG1	2.15	0.62
36:l1:1101:G:H5''	44:L7:107:ARG:HD3	1.81	0.62
36:l1:1485:G:N2	70:O4:4:ARG:HD2	2.14	0.62
36:l1:3111:U:OP2	85:l1:3751:OHX:N1	2.32	0.62
63:N7:14:VAL:HG13	70:O4:86:LYS:HG2	1.80	0.62
1:6:151:G:H1	1:6:163:G:H1	1.45	0.62
1:6:955:A:OP1	15:c3:3:ARG:NH1	2.32	0.62
17:c5:126:VAL:O	17:c5:127:ARG:HB2	1.99	0.62
36:5:942:U:N3	64:n8:16:SER:HA	2.13	0.62
36:5:1657:C:OP2	85:5:4015:OHX:N2	2.33	0.62
36:5:1765:U:OP2	55:m9:39:ASN:ND2	2.32	0.62
85:5:3822:OHX:N4	85:5:4035:OHX:N3	2.48	0.62
40:l3:4:ARG:NH1	40:l3:6:TYR:O	2.32	0.62
15:C3:38:VAL:HG12	15:C3:42:ARG:HH12	1.64	0.62
36:l1:1078:U:O4	85:l1:3826:OHX:N2	2.32	0.62
36:l1:2771:U:O2'	36:l1:2772:C:O4'	2.16	0.62
41:L4:232:SER:OG	41:L4:233:LEU:N	2.28	0.62
48:M1:52:TYR:HA	48:M1:61:ARG:HG3	1.81	0.62
1:6:165:G:O2'	60:n4:80:ARG:NH2	2.30	0.62
1:6:500:C:O2'	1:6:501:U:O4'	2.16	0.62
1:6:1435:G:N7	12:c0:25:LYS:NZ	2.45	0.62
6:s4:93:ASP:O	6:s4:95:THR:N	2.29	0.62
8:s6:73:ILE:HD11	8:s6:75:LEU:HD21	1.81	0.62
32:e0:59:GLY:O	32:e0:61:SER:N	2.33	0.62
53:m7:25:SER:HB3	53:m7:28:ASN:HB2	1.81	0.62
73:o7:21:ARG:NH2	73:o7:41:ALA:O	2.31	0.62
81:p0:67:LEU:HD11	81:p0:74:GLU:HB2	1.81	0.62
3:S1:89:ASP:HB3	3:S1:223:PHE:HE2	1.64	0.62
36:l1:673:U:OP1	54:M8:21:SER:OG	2.18	0.62
36:l1:1915:A:H5''	55:M9:84:THR:HG22	1.81	0.62
63:N7:5:LEU:HD11	66:O0:35:ARG:HD2	1.81	0.62
1:6:1584:G:H22	1:6:1611:A:P	2.21	0.62
6:s4:195:ILE:HG22	6:s4:196:VAL:H	1.65	0.62
46:l9:111:PHE:HD1	46:l9:127:PRO:HA	1.65	0.62
1:2:1585:U:H3	1:2:1611:A:H2	1.47	0.62
15:C3:72:MET:HE1	15:C3:82:PRO:HD2	1.80	0.62
36:l1:1815:U:O2'	36:l1:1816:A:OP2	2.17	0.62
36:l1:1918:C:OP2	85:l1:3874:OHX:N2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	1.82	0.62
46:L9:101:VAL:HG12	46:L9:136:PHE:HE1	1.64	0.62
58:N2:32:SER:HA	58:N2:35:LYS:HB3	1.81	0.62
78:Q2:10:THR:HG22	78:Q2:23:HIS:CD2	2.35	0.62
1:6:868:G:H1	1:6:960:U:H3	1.46	0.62
1:6:1268:G:H1'	1:6:1448:G:H5''	1.81	0.62
36:5:247:C:C2	36:5:248:U:H1'	2.35	0.62
1:2:67:A:C2	1:2:69:G:H1'	2.35	0.62
1:2:116:U:H2'	1:2:117:U:C6	2.34	0.62
1:2:123:G:H21	6:S4:146:THR:HG21	1.65	0.62
1:2:1520:U:OP2	21:C9:75:LYS:NZ	2.32	0.62
1:6:152:U:C2	1:6:163:G:N2	2.67	0.62
1:6:1280:C:H2'	1:6:1281:G:H8	1.64	0.62
34:sR:167:VAL:HG23	34:sR:183:LEU:HB2	1.80	0.62
36:5:1010:G:N3	47:m0:194:GLY:HA3	2.15	0.62
36:5:1724:U:H1'	36:5:1725:C:C6	2.35	0.62
36:5:3241:G:H2'	36:5:3245:A:H8	1.63	0.62
41:l4:271:LYS:HB2	41:l4:274:TYR:HB3	1.82	0.62
49:m3:50:PRO:O	49:m3:52:ASP:N	2.26	0.62
52:m6:78:ARG:HH11	52:m6:78:ARG:HG3	1.65	0.62
1:2:513:U:OP1	11:S9:133:HIS:NE2	2.27	0.62
1:2:1504:G:H2'	1:2:1505:A:C8	2.34	0.62
47:M0:76:MET:HE2	47:M0:148:VAL:HG22	1.80	0.62
52:M6:36:VAL:HB	52:M6:108:ILE:HG12	1.80	0.62
64:N8:88:ASP:HA	64:N8:91:LEU:HB2	1.82	0.62
72:O6:74:LYS:HD2	72:O6:80:PHE:CD2	2.35	0.62
1:6:250:C:H2'	1:6:251:A:H8	1.64	0.62
8:s6:136:LYS:HG3	8:s6:173:PRO:HB3	1.81	0.62
36:5:3134:A:OP1	85:5:3769:OHX:N5	2.32	0.62
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.32	0.62
3:S1:62:LYS:O	3:S1:64:ARG:N	2.27	0.62
12:C0:16:PHE:HD2	12:C0:76:LEU:HD23	1.65	0.62
33:E1:135:HIS:HB2	33:E1:138:ARG:HB3	1.81	0.62
36:1:80:G:H2'	36:1:81:C:C6	2.35	0.62
36:1:1695:U:O2'	36:1:1749:A:N1	2.32	0.62
40:L3:105:VAL:HG21	40:L3:148:LEU:HD13	1.82	0.62
3:s1:35:PRO:HB3	3:s1:231:LEU:HD21	1.82	0.62
9:s7:64:VAL:HG22	9:s7:94:ALA:HB1	1.82	0.62
20:c8:49:LYS:HG3	20:c8:81:ILE:HD11	1.81	0.62
22:d0:23:ARG:HB3	22:d0:117:VAL:HB	1.82	0.62
24:d2:55:ASP:O	24:d2:57:ARG:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:101:GLN:HG2	34:sR:138:GLY:HA3	1.81	0.62
36:5:2659:G:O6	85:5:3751:OHX:N6	2.33	0.62
39:l2:143:GLU:O	39:l2:145:LYS:N	2.33	0.62
42:l5:64:ILE:HG13	42:l5:109:THR:HG21	1.82	0.62
49:m3:42:ARG:O	49:m3:46:ILE:HG12	2.00	0.62
1:2:138:A:OP2	1:2:1706:C:O2'	2.18	0.61
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	1.82	0.61
6:S4:199:GLU:OE2	6:S4:209:HIS:NE2	2.25	0.61
18:C6:98:ASP:OD2	18:C6:99:GLU:N	2.33	0.61
36:1:1845:G:O2'	73:O7:5:THR:HB	2.00	0.61
4:s2:88:LYS:HB3	4:s2:95:ARG:HB3	1.81	0.61
9:s7:30:SER:HB2	9:s7:34:LEU:HB2	1.81	0.61
11:s9:171:ARG:HE	11:s9:174:ARG:HB2	1.64	0.61
17:c5:127:ARG:O	17:c5:130:ARG:NH1	2.33	0.61
18:c6:7:VAL:HG12	18:c6:22:VAL:HB	1.82	0.61
36:5:541:U:H2'	36:5:542:G:C8	2.33	0.61
1:2:134:U:OP1	1:2:136:C:N4	2.33	0.61
1:2:320:U:H3'	1:2:321:C:H5''	1.81	0.61
1:2:1256:A:OP1	12:C0:5:LYS:NZ	2.28	0.61
36:1:505:G:OP1	41:L4:320:ASN:ND2	2.29	0.61
36:1:1148:G:N7	85:1:4017:OHX:N4	2.48	0.61
1:6:329:G:H2'	1:6:330:G:H8	1.65	0.61
1:6:337:G:O2'	10:s8:10:LYS:NZ	2.34	0.61
36:5:2588:U:OP1	45:l8:48:ARG:NH2	2.33	0.61
60:n4:63:ILE:O	60:n4:65:GLU:N	2.33	0.61
67:o1:44:MET:O	67:o1:46:THR:N	2.33	0.61
70:o4:46:ASP:OD2	70:o4:80:ARG:NH1	2.31	0.61
81:p0:26:PHE:HB2	81:p0:87:VAL:HB	1.82	0.61
15:C3:55:ARG:NH1	15:C3:56:ASP:OD2	2.33	0.61
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	1.81	0.61
36:1:80:G:H2'	36:1:81:C:H6	1.65	0.61
36:1:1094:U:H4'	36:1:1095:U:OP1	2.00	0.61
36:1:1887:A:OP1	85:1:3947:OHX:N5	2.33	0.61
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.23	0.61
1:6:140:A:N6	1:6:281:G:OP1	2.33	0.61
1:6:263:C:H4'	1:6:292:U:H5'	1.81	0.61
1:6:1239:U:O4	85:6:2060:OHX:N5	2.33	0.61
1:6:1429:G:H2'	1:6:1430:U:C6	2.35	0.61
7:s5:63:GLN:OE1	7:s5:65:ARG:N	2.31	0.61
14:c2:81:ASP:O	14:c2:83:GLU:N	2.33	0.61
21:c9:109:GLU:HG2	21:c9:114:VAL:HG23	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:129:U:O4	85:5:3776:OHX:N4	2.33	0.61
36:5:2810:C:OP1	85:5:3921:OHX:N3	2.33	0.61
47:m0:87:LEU:HD23	47:m0:138:VAL:HG22	1.81	0.61
50:m4:94:TRP:O	50:m4:97:SER:OG	2.17	0.61
27:D5:44:GLN:NE2	27:D5:48:ASP:OD2	2.29	0.61
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.82	0.61
46:L9:149:ASN:OD1	46:L9:149:ASN:N	2.32	0.61
49:M3:140:SER:OG	49:M3:141:ALA:N	2.33	0.61
1:6:629:U:OP1	15:c3:127:ARG:NH2	2.30	0.61
1:6:874:C:OP1	85:6:2019:OHX:N1	2.33	0.61
1:6:1130:G:OP2	85:6:2076:OHX:N1	2.34	0.61
2:s0:124:THR:HG22	2:s0:174:TRP:HE1	1.64	0.61
26:d4:12:VAL:HG22	26:d4:23:PHE:HB3	1.82	0.61
26:d4:62:THR:HA	26:d4:69:SER:HA	1.81	0.61
36:5:1470:U:OP1	85:5:3801:OHX:N6	2.33	0.61
36:5:3019:U:O4	85:5:3829:OHX:N2	2.34	0.61
43:l6:51:ARG:NH1	50:m4:114:ASP:OD2	2.34	0.61
63:n7:36:HIS:HD2	63:n7:74:VAL:HG11	1.63	0.61
24:D2:18:GLU:HG3	24:D2:69:LEU:HD23	1.83	0.61
36:1:501:A:H2'	36:1:502:U:C6	2.35	0.61
36:1:2338:C:OP1	40:L3:236:LYS:NZ	2.32	0.61
68:O2:101:SER:O	68:O2:105:ARG:HG3	2.00	0.61
1:6:1713:G:O3'	60:n4:71:ARG:NH2	2.34	0.61
8:s6:3:LEU:HD22	8:s6:111:LEU:HD11	1.81	0.61
14:c2:56:GLU:OE1	14:c2:124:LYS:NZ	2.33	0.61
20:c8:42:TYR:HE2	20:c8:73:MET:HG3	1.65	0.61
33:e1:98:VAL:HG12	33:e1:99:LYS:H	1.65	0.61
36:5:914:A:C2	39:l2:204:MET:HG3	2.35	0.61
36:5:955:U:H2'	36:5:956:U:C6	2.34	0.61
36:5:1192:C:H5	85:5:3933:OHX:N6	1.98	0.61
36:5:2771:U:O2'	36:5:2772:C:O4'	2.18	0.61
85:5:3854:OHX:N6	85:5:4037:OHX:N2	2.49	0.61
49:m3:6:ASN:O	54:m8:164:ARG:NH1	2.30	0.61
50:m4:47:ASP:OD1	50:m4:55:ARG:HB2	2.00	0.61
57:n1:119:ALA:O	57:n1:123:GLY:N	2.33	0.61
62:n6:39:LEU:HD21	62:n6:107:THR:O	2.01	0.61
1:2:197:A:H61	10:S8:138:ASN:HD22	1.48	0.61
1:2:270:C:H41	8:S6:182:GLN:HE22	1.47	0.61
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.82	0.61
36:1:543:C:H42	36:1:548:G:H1	1.49	0.61
36:1:1413:G:N7	85:1:3983:OHX:N4	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:185:ARG:H	23:d1:45:ALA:H	1.48	0.61
3:s1:23:PRO:O	3:s1:26:ARG:HB3	2.00	0.61
9:s7:155:ASP:OD2	9:s7:156:SER:N	2.27	0.61
36:5:284:A:H4'	36:5:285:A:C2	2.35	0.61
36:5:670:C:OP1	54:m8:147:ARG:NH2	2.34	0.61
38:8:27:U:H4'	41:l4:51:ALA:HB3	1.83	0.61
40:l3:293:ASN:HB2	40:l3:304:THR:HA	1.81	0.61
42:l5:95:TRP:CH2	42:l5:181:PRO:HD3	2.36	0.61
54:m8:178:ARG:HG2	64:n8:51:GLY:HA3	1.83	0.61
1:2:778:G:H3'	1:2:780:A:H2	1.64	0.61
1:2:788:A:H2'	6:S4:19:LEU:HD22	1.81	0.61
36:1:634:C:O2'	68:O2:47:ARG:HD3	2.00	0.61
36:1:1524:A:OP1	61:N5:92:LYS:NZ	2.34	0.61
36:1:1808:G:O6	85:1:3842:OHX:N3	2.33	0.61
47:M0:201:SER:C	47:M0:203:LYS:H	2.09	0.61
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.83	0.61
1:6:452:A:OP2	85:6:2025:OHX:N1	2.32	0.61
22:d0:103:ILE:HA	22:d0:106:ILE:HG22	1.81	0.61
36:5:826:G:O6	85:5:3807:OHX:N2	2.34	0.61
43:l6:50:LYS:HE2	43:l6:72:ASN:HB2	1.83	0.61
44:l7:158:LYS:HD2	44:l7:159:GLN:N	2.16	0.61
74:o8:27:ILE:HD13	74:o8:41:THR:HB	1.81	0.61
1:2:1401:A:O3'	19:C7:10:LYS:NZ	2.33	0.61
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.28	0.61
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.83	0.61
36:1:1334:U:H5''	44:L7:206:LYS:HB3	1.83	0.61
37:3:97:A:O4'	44:L7:225:GLN:NE2	2.31	0.61
39:L2:204:MET:HE2	39:L2:209:HIS:HB2	1.83	0.61
51:M5:143:ARG:HH21	71:O5:92:LEU:HD23	1.66	0.61
6:s4:95:THR:HG23	6:s4:97:GLU:HG3	1.83	0.61
8:s6:78:THR:HG22	8:s6:79:LYS:H	1.65	0.61
9:s7:73:VAL:HG12	9:s7:76:LYS:HB2	1.83	0.61
29:d7:61:THR:OG1	29:d7:62:ILE:N	2.34	0.61
34:sR:25:THR:HG21	34:sR:295:SER:HA	1.82	0.61
36:5:129:U:H2'	36:5:130:A:C8	2.34	0.61
36:5:2940:A:N7	40:l3:2:SER:N	2.48	0.61
40:l3:56:ILE:HD11	40:l3:356:LEU:HD13	1.81	0.61
40:l3:90:VAL:HG22	40:l3:104:THR:HG22	1.82	0.61
47:m0:193:ASP:OD2	47:m0:198:LYS:NZ	2.34	0.61
61:n5:105:VAL:HG11	61:n5:126:LEU:HD13	1.82	0.61
71:o5:6:ALA:HB1	71:o5:10:ARG:HH21	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:503:G:O2'	1:2:504:U:OP1	2.17	0.61
18:C6:83:GLN:HE22	18:C6:119:ALA:HA	1.66	0.61
36:1:1350:A:O2'	36:1:1351:U:H5'	2.01	0.61
37:3:3:U:H2'	37:3:4:U:C6	2.35	0.61
40:L3:232:ARG:NH1	40:L3:269:GLN:O	2.34	0.61
46:L9:90:MET:HE3	46:L9:181:VAL:HG23	1.81	0.61
56:N0:42:TRP:O	56:N0:46:GLN:HG3	2.01	0.61
3:s1:141:ALA:HB1	3:s1:207:LEU:HD22	1.83	0.61
4:s2:116:LYS:HG2	4:s2:127:ALA:HB3	1.82	0.61
36:5:1100:U:OP2	44:l7:196:LYS:HE3	2.00	0.61
36:5:2163:C:H4'	39:l2:8:GLN:HA	1.81	0.61
45:l8:100:GLU:OE2	45:l8:108:ARG:NH1	2.32	0.61
36:1:149:U:OP2	51:M5:49:ARG:NH2	2.33	0.61
74:O8:24:THR:HB	74:O8:76:ASN:HB3	1.83	0.61
16:c4:60:ALA:HB1	16:c4:101:ALA:HB2	1.82	0.61
36:5:3128:G:OP2	85:5:3995:OHX:N3	2.34	0.61
18:C6:82:ARG:HA	18:C6:85:ILE:HD12	1.83	0.60
36:1:370:U:OP1	85:1:3978:OHX:N2	2.34	0.60
36:1:979:U:H1'	36:1:980:A:N7	2.16	0.60
36:1:3134:A:OP1	85:1:3761:OHX:N4	2.34	0.60
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.00	0.60
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.28	0.60
7:s5:146:THR:HG23	7:s5:157:ARG:HB3	1.84	0.60
36:5:3287:U:H2'	36:5:3288:G:H5'	1.81	0.60
41:l4:191:LYS:HG3	41:l4:194:TYR:CZ	2.35	0.60
42:l5:270:LYS:HE2	42:l5:273:ARG:HA	1.83	0.60
45:l8:41:GLN:HG3	45:l8:44:ARG:HH12	1.65	0.60
53:m7:27:LYS:HD3	53:m7:63:PHE:HB3	1.83	0.60
1:2:326:G:OP1	13:C1:57:LYS:NZ	2.34	0.60
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.83	0.60
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.65	0.60
36:1:2987:A:O2'	40:L3:259:HIS:HB3	2.01	0.60
37:3:49:G:N7	42:L5:58:LYS:HG3	2.15	0.60
41:L4:337:GLU:O	41:L4:339:LEU:N	2.35	0.60
64:N8:73:LEU:HD21	64:N8:78:LEU:HA	1.83	0.60
74:O8:32:ASN:HD21	74:O8:36:LYS:HB3	1.65	0.60
1:6:346:G:N7	85:6:2124:OHX:N2	2.49	0.60
1:6:755:A:O2'	1:6:756:A:H5''	2.01	0.60
1:6:1164:G:H1	1:6:1581:C:H42	1.49	0.60
1:6:1459:C:H2'	20:c8:138:THR:HB	1.83	0.60
48:m1:168:ASP:OD1	85:m1:202:OHX:N3	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:o0:30:THR:HG21	66:o0:89:VAL:HG22	1.83	0.60
1:2:753:A:H5'	6:S4:221:ARG:HG3	1.84	0.60
1:2:1041:G:OP1	85:2:2107:OHX:N5	2.34	0.60
2:S0:56:LYS:HD2	2:S0:158:VAL:HG23	1.83	0.60
3:S1:229:MET:SD	3:S1:232:HIS:ND1	2.72	0.60
21:C9:33:TYR:HH	21:C9:99:SER:HG	1.46	0.60
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.66	0.60
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.82	0.60
47:M0:49:CYS:HB3	47:M0:168:SER:HB3	1.82	0.60
1:6:1018:U:H2'	1:6:1019:A:C8	2.35	0.60
1:6:1369:U:OP1	21:c9:119:LYS:NZ	2.33	0.60
5:s3:75:LYS:HB3	12:c0:22:VAL:HG22	1.84	0.60
6:s4:151:ASP:OD1	8:s6:215:ARG:NH1	2.34	0.60
33:e1:88:PRO:HB2	33:e1:89:LYS:HD3	1.84	0.60
36:5:177:U:OP2	85:5:3860:OHX:N6	2.35	0.60
36:5:2697:A:H2'	36:5:2698:G:C8	2.36	0.60
36:5:3227:A:H2'	36:5:3228:C:H5'	1.83	0.60
1:2:976:G:O6	85:2:2009:OHX:N3	2.34	0.60
1:2:1202:A:OP2	85:2:2070:OHX:N2	2.35	0.60
6:S4:118:GLU:HG3	6:S4:121:TYR:HE1	1.66	0.60
28:D6:44:ILE:HD12	28:D6:45:VAL:HG13	1.82	0.60
28:D6:66:LYS:HE2	28:D6:68:TYR:HE1	1.67	0.60
36:1:2680:A:C2	48:M1:24:GLY:HA3	2.37	0.60
40:L3:4:ARG:HD3	40:L3:7:GLU:HA	1.82	0.60
40:L3:168:LYS:O	40:L3:319:ASN:ND2	2.34	0.60
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.34	0.60
1:6:741:C:H2'	9:s7:107:ARG:HH22	1.65	0.60
1:6:1160:A:H2'	1:6:1161:C:C6	2.36	0.60
2:s0:148:ASP:OD1	2:s0:149:LEU:N	2.30	0.60
6:s4:123:LEU:HD21	6:s4:235:TYR:HB2	1.83	0.60
7:s5:144:GLU:CD	30:d8:57:MET:HG3	2.27	0.60
14:c2:87:PRO:HA	14:c2:140:PHE:HE1	1.67	0.60
36:5:381:U:O4	85:5:4039:OHX:N2	2.35	0.60
36:5:1934:G:O6	85:5:3759:OHX:N2	2.33	0.60
1:2:25:C:OP2	1:2:25:C:H4'	2.01	0.60
1:2:1303:U:O4	85:2:2036:OHX:N6	2.35	0.60
1:2:1597:A:OP2	31:D9:32:ARG:NH2	2.35	0.60
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	1.82	0.60
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.65	0.60
36:1:1387:G:OP1	85:1:4009:OHX:N6	2.34	0.60
34:sR:206:PRO:HG2	34:sR:247:PRO:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:419:G:N7	85:8:211:OHX:N3	2.50	0.60
42:15:211:LEU:HD13	42:15:219:PHE:HA	1.83	0.60
44:17:173:LEU:HD23	44:17:178:ILE:HG21	1.83	0.60
76:q0:77:ILE:HG13	76:q0:78:ILE:H	1.67	0.60
79:q3:73:THR:HB	79:q3:76:ALA:H	1.66	0.60
25:D3:127:VAL:O	25:D3:129:GLY:N	2.34	0.60
36:1:150:A:OP1	51:M5:56:LYS:NZ	2.34	0.60
36:1:561:C:H2'	36:1:562:C:C6	2.37	0.60
36:1:873:C:H5''	36:1:874:U:O5'	2.01	0.60
36:1:1234:G:O6	85:1:3966:OHX:N6	2.34	0.60
36:1:1306:G:C6	52:M6:62:THR:HA	2.36	0.60
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.36	0.60
42:L5:132:THR:HG21	42:L5:170:GLY:HA2	1.82	0.60
45:L8:86:THR:O	45:L8:90:THR:OG1	2.18	0.60
46:L9:129:ARG:N	46:L9:157:ASN:OD1	2.26	0.60
1:6:107:C:H42	1:6:307:G:H1	1.48	0.60
1:6:871:G:O2'	29:d7:67:THR:O	2.17	0.60
24:d2:57:ARG:NH2	29:d7:26:GLN:OE1	2.35	0.60
36:5:410:U:O4	85:5:3944:OHX:N1	2.34	0.60
36:5:1098:A:O2'	57:n1:130:ARG:O	2.18	0.60
36:5:1370:G:H5''	64:n8:18:GLY:O	2.02	0.60
36:5:2822:U:OP2	85:5:3797:OHX:N1	2.35	0.60
41:l4:144:LYS:HG2	41:l4:145:ILE:H	1.66	0.60
60:n4:97:LYS:HG3	60:n4:98:PRO:HD2	1.82	0.60
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.33	0.60
1:2:205:U:O4	85:2:2026:OHX:N3	2.35	0.60
1:2:290:G:O6	85:2:2110:OHX:N6	2.35	0.60
8:S6:33:GLY:HA2	8:S6:51:LYS:HE2	1.84	0.60
8:S6:214:LYS:HA	8:S6:217:SER:HB3	1.83	0.60
28:D6:84:VAL:HG13	28:D6:85:ARG:H	1.67	0.60
36:1:544:C:H1'	36:1:548:G:H22	1.67	0.60
36:1:2593:A:H4'	36:1:2594:C:O5'	2.01	0.60
85:1:3832:OHX:N6	85:1:4009:OHX:N4	2.49	0.60
63:N7:33:SER:HB2	63:N7:36:HIS:HB2	1.84	0.60
1:6:213:A:OP2	85:6:2112:OHX:N1	2.35	0.60
1:6:1542:G:N2	1:6:1569:A:OP2	2.34	0.60
2:s0:140:ASN:ND2	4:s2:60:SER:O	2.27	0.60
11:s9:123:HIS:CD2	32:e0:37:ARG:HD2	2.36	0.60
19:c7:13:SER:HA	19:c7:54:THR:HG22	1.84	0.60
20:c8:134:ARG:O	20:c8:136:GLN:N	2.33	0.60
26:d4:55:VAL:HG12	26:d4:75:VAL:HG13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:370:U:OP1	85:5:4002:OHX:N1	2.34	0.60
36:5:2254:U:H2'	36:5:2261:G:N2	2.16	0.60
43:l6:40:LEU:HD13	43:l6:84:VAL:HG11	1.82	0.60
69:o3:85:PHE:O	85:o3:202:OHX:N2	2.34	0.60
1:2:1011:G:OP2	85:2:2049:OHX:N6	2.35	0.60
7:S5:123:VAL:O	27:D5:58:ARG:NH1	2.35	0.60
18:C6:50:GLU:OE1	18:C6:114:ARG:NH1	2.34	0.60
36:1:1110:U:H2'	36:1:1111:U:C6	2.37	0.60
36:1:2916:U:H1'	59:N3:44:SER:HB2	1.84	0.60
36:1:3119:U:OP2	85:1:3751:OHX:N6	2.35	0.60
42:L5:251:PRO:O	42:L5:253:PHE:N	2.28	0.60
74:O8:73:LEU:HD23	74:O8:75:VAL:HG22	1.84	0.60
1:6:1799:U:H4'	1:6:1800:A:H2'	1.82	0.60
36:5:1686:U:P	58:n2:42:LYS:HZ1	2.24	0.60
36:5:2183:A:O2'	39:l2:236:GLY:N	2.21	0.60
70:o4:80:ARG:HG3	70:o4:88:ARG:HH21	1.66	0.60
2:S0:157:ASP:OD1	23:D1:60:ARG:NH2	2.35	0.60
27:D5:46:LYS:HD3	27:D5:70:LYS:HD2	1.83	0.60
36:1:1014:U:H2'	36:1:1015:U:H5''	1.83	0.60
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.01	0.60
1:6:578:U:O2	85:6:2116:OHX:N5	2.35	0.60
1:6:886:U:H2'	1:6:887:A:C8	2.37	0.60
1:6:919:A:H5'	16:c4:35:GLY:HA3	1.83	0.60
1:6:1559:A:H5''	20:c8:135:GLY:HA3	1.83	0.60
28:d6:58:VAL:HG22	28:d6:59:TYR:H	1.67	0.60
85:5:3854:OHX:N3	85:5:4037:OHX:N5	2.50	0.60
64:n8:84:GLU:O	64:n8:87:ARG:HB2	2.02	0.60
1:2:158:U:O2'	1:2:159:U:H3'	2.02	0.60
1:2:885:G:H21	16:C4:123:SER:HB2	1.67	0.60
36:1:776:U:H5	36:1:2719:U:O2	1.85	0.60
36:1:1675:G:H2'	36:1:1676:A:H8	1.67	0.60
36:1:3103:A:OP2	85:1:4018:OHX:N3	2.35	0.60
36:1:3113:A:OP1	46:L9:73:SER:OG	2.20	0.60
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	1.84	0.60
41:L4:52:VAL:HG11	41:L4:99:MET:HE3	1.83	0.60
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.84	0.60
60:N4:5:ILE:HD12	60:N4:10:GLY:HA2	1.84	0.60
61:N5:58:ASP:OD1	71:O5:25:LYS:NZ	2.35	0.60
1:6:1619:C:O2	30:d8:22:ARG:NH1	2.35	0.60
4:s2:143:TYR:OH	4:s2:150:GLN:N	2.35	0.60
7:s5:56:ALA:O	7:s5:58:LEU:N	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:22:ALA:HB1	15:c3:23:PRO:HA	1.83	0.60
21:c9:33:TYR:HD1	21:c9:34:VAL:H	1.50	0.60
36:5:1932:A:H5'	36:5:1933:A:OP2	2.02	0.60
36:5:2880:U:H1'	40:l3:250:ALA:HB3	1.83	0.60
49:m3:157:ARG:NH1	64:n8:146:GLU:OE2	2.35	0.60
1:2:603:U:H2'	1:2:604:A:H8	1.66	0.59
1:2:1537:C:N3	85:2:2112:OHX:N3	2.50	0.59
36:1:440:A:OP1	36:1:494:G:H1'	2.02	0.59
36:1:3276:G:H1	69:O3:60:ARG:HH22	1.48	0.59
38:4:43:A:OP1	85:4:231:OHX:N6	2.35	0.59
61:N5:38:LEU:HD11	61:N5:40:LEU:HD13	1.83	0.59
61:N5:135:ILE:HD11	61:N5:138:ARG:HH11	1.67	0.59
74:O8:4:GLU:HG2	74:O8:5:ILE:H	1.67	0.59
1:6:697:C:OP2	85:6:2037:OHX:N5	2.35	0.59
1:6:1533:C:OP2	27:d5:77:ARG:NH1	2.31	0.59
2:s0:190:ASP:C	2:s0:192:THR:H	2.10	0.59
12:c0:10:LYS:HZ2	12:c0:36:ASP:HB3	1.66	0.59
16:c4:71:CYS:O	16:c4:76:ILE:N	2.29	0.59
27:d5:61:SER:H	27:d5:64:VAL:HB	1.67	0.59
36:5:2311:G:OP2	85:5:4035:OHX:N1	2.35	0.59
40:l3:166:ILE:O	40:l3:169:THR:HG22	2.01	0.59
48:m1:10:ARG:HA	48:m1:134:PRO:HD2	1.82	0.59
49:m3:74:GLY:HA3	49:m3:98:ASP:HB2	1.84	0.59
53:m7:116:HIS:NE2	53:m7:147:GLU:OE2	2.32	0.59
1:2:1357:A:H2'	1:2:1358:G:C8	2.37	0.59
1:2:1487:A:H2'	1:2:1488:G:H8	1.65	0.59
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.37	0.59
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.34	0.59
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.82	0.59
11:S9:28:LEU:HD11	32:E0:39:LEU:HB3	1.82	0.59
36:1:409:A:OP2	85:1:3915:OHX:N5	2.35	0.59
36:1:791:A:OP1	41:L4:108:LYS:NZ	2.34	0.59
36:1:1062:A:N3	57:N1:130:ARG:NH2	2.48	0.59
36:1:1235:U:H4'	36:1:1236:G:H5'	1.84	0.59
36:1:3026:G:O6	85:1:3800:OHX:N4	2.35	0.59
39:L2:116:VAL:HG22	39:L2:126:LEU:HD12	1.84	0.59
55:M9:90:PRO:HB2	55:M9:93:VAL:HG23	1.83	0.59
70:O4:58:ARG:HG3	70:O4:59:PRO:HD2	1.84	0.59
1:6:1562:G:OP1	21:c9:89:ARG:NH2	2.35	0.59
2:s0:108:THR:OG1	2:s0:135:GLU:OE1	2.17	0.59
6:s4:192:ILE:HG13	6:s4:243:GLY:HA3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:d4:88:THR:O	26:d4:88:THR:OG1	2.17	0.59
36:5:385:A:H2'	36:5:386:A:C8	2.36	0.59
36:5:1393:A:N3	36:5:1419:A:O2'	2.34	0.59
36:5:3078:U:O2'	85:5:4030:OHX:N1	2.34	0.59
1:2:1657:U:H4'	1:2:1658:G:O5'	2.01	0.59
36:1:2869:U:H5''	36:1:2870:C:OP2	2.01	0.59
36:1:2898:G:H5''	36:1:2899:C:H5'	1.83	0.59
85:1:4029:OHX:N1	51:M5:204:LYS:O	2.35	0.59
67:O1:54:GLU:OE2	67:O1:54:GLU:N	2.35	0.59
67:O1:64:VAL:HG23	67:O1:65:LYS:HG2	1.84	0.59
1:6:277:U:O2'	1:6:278:U:OP1	2.20	0.59
1:6:1116:A:H62	1:6:1130:G:H21	1.48	0.59
18:c6:93:HIS:HA	18:c6:97:VAL:HG23	1.84	0.59
25:d3:48:HIS:HB3	25:d3:103:LEU:HD21	1.83	0.59
36:5:240:U:O2'	36:5:241:G:H8	1.85	0.59
36:5:943:U:H3'	64:n8:13:GLY:HA2	1.83	0.59
36:5:2163:C:O2'	39:l2:8:GLN:O	2.20	0.59
36:5:2261:G:O2'	36:5:2263:C:N4	2.36	0.59
36:5:2572:C:O2'	36:5:2573:G:OP2	2.18	0.59
38:8:110:C:O2'	38:8:112:U:OP2	2.18	0.59
39:l2:238:ILE:O	39:l2:240:ALA:N	2.33	0.59
44:l7:178:ILE:HA	44:l7:183:ASP:HB3	1.83	0.59
55:m9:35:ALA:O	55:m9:36:ASN:ND2	2.35	0.59
1:2:145:A:O2'	1:2:146:U:O5'	2.18	0.59
2:S0:193:GLN:C	2:S0:195:TRP:H	2.11	0.59
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.03	0.59
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.84	0.59
14:C2:73:LYS:NZ	33:E1:108:VAL:HG13	2.17	0.59
15:C3:11:ILE:HD12	29:D7:21:LEU:HD12	1.84	0.59
40:L3:223:GLY:HA2	40:L3:271:GLY:HA3	1.84	0.59
49:M3:75:PHE:O	49:M3:79:GLU:HB2	2.02	0.59
1:6:831:U:O2'	1:6:832:U:H5'	2.03	0.59
1:6:859:A:C6	15:c3:73:ARG:HD3	2.37	0.59
1:6:1006:C:O2	85:6:2106:OHX:N5	2.35	0.59
10:s8:62:THR:HA	10:s8:76:THR:O	2.03	0.59
18:c6:128:LYS:NZ	18:c6:134:ALA:O	2.35	0.59
36:5:1018:G:H2'	36:5:1019:G:O4'	2.01	0.59
36:5:2828:G:OP1	47:m0:7:ARG:NH1	2.35	0.59
47:m0:156:ARG:HD3	47:m0:163:GLN:O	2.03	0.59
27:D5:39:ALA:HB1	27:D5:71:ILE:H	1.67	0.59
36:1:419:G:N7	85:4:216:OHX:N6	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1819:U:O4	85:1:3901:OHX:N4	2.35	0.59
39:L2:201:GLY:HA2	39:L2:204:MET:HG3	1.85	0.59
67:O1:23:VAL:O	67:O1:28:ARG:NH1	2.35	0.59
1:6:1042:G:N2	1:6:1077:C:O2	2.36	0.59
1:6:1139:A:OP2	85:6:2035:OHX:N1	2.35	0.59
1:6:1672:G:H2'	1:6:1673:G:C8	2.38	0.59
11:s9:176:ASN:HA	11:s9:179:ARG:HG2	1.83	0.59
35:sM:64:LYS:O	35:sM:66:ALA:N	2.33	0.59
36:5:2696:A:H2'	36:5:2697:A:C8	2.36	0.59
36:5:2915:U:C5	40:l3:7:GLU:HG2	2.37	0.59
54:m8:86:THR:HB	54:m8:105:ARG:HB2	1.84	0.59
59:n3:74:MET:HG3	59:n3:102:ILE:HG23	1.84	0.59
72:o6:74:LYS:HD2	72:o6:80:PHE:HD2	1.67	0.59
1:2:867:G:OP2	15:C3:3:ARG:NH1	2.35	0.59
25:D3:109:ARG:HB3	25:D3:112:LYS:HB2	1.84	0.59
36:1:528:U:H2'	36:1:529:A:C8	2.38	0.59
36:1:3375:A:O2'	36:1:3378:C:OP2	2.21	0.59
37:3:22:A:H1'	42:L5:272:TYR:CZ	2.37	0.59
45:L8:246:MET:HE3	45:L8:249:ARG:HH21	1.67	0.59
50:M4:20:VAL:HG22	50:M4:66:THR:OG1	2.02	0.59
1:6:658:C:N4	1:6:673:A:N1	2.51	0.59
1:6:1392:U:H2'	1:6:1393:C:C6	2.37	0.59
36:5:528:U:H2'	36:5:529:A:C8	2.38	0.59
36:5:1080:A:OP2	42:l5:140:ARG:NH2	2.36	0.59
37:7:85:G:N7	85:7:214:OHX:N6	2.51	0.59
44:l7:102:VAL:HG12	44:l7:130:ILE:HD12	1.83	0.59
44:l7:229:PHE:CD1	44:l7:229:PHE:C	2.80	0.59
47:m0:88:ARG:HG2	47:m0:90:ARG:HG2	1.83	0.59
53:m7:69:ARG:HG2	53:m7:79:THR:OG1	2.03	0.59
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.84	0.59
7:S5:143:ARG:N	7:S5:218:GLU:OE2	2.28	0.59
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.84	0.59
19:C7:47:ARG:NH1	19:C7:48:ASN:OD1	2.35	0.59
34:SR:64:HIS:ND1	34:SR:86:ASP:OD2	2.28	0.59
36:1:1355:A:H4'	36:1:1356:U:O5'	2.02	0.59
1:6:1026:A:N7	1:6:1772:C:O2'	2.31	0.59
1:6:1487:A:OP1	31:d9:34:TYR:OH	2.16	0.59
1:6:1590:G:H2'	1:6:1591:C:H6	1.67	0.59
8:s6:129:VAL:O	60:n4:80:ARG:NH1	2.35	0.59
26:d4:29:HIS:O	26:d4:31:ASN:N	2.36	0.59
36:5:213:A:H5''	62:n6:2:ALA:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:821:U:OP2	85:5:3886:OHX:N6	2.35	0.59
47:m0:47:PRO:HB3	47:m0:171:TRP:CZ2	2.37	0.59
1:2:516:G:N2	1:2:537:G:H1'	2.17	0.59
1:2:1528:U:OP1	7:S5:109:LYS:HG2	2.02	0.59
21:C9:113:ILE:C	21:C9:125:SER:HB3	2.28	0.59
36:1:565:U:H2'	36:1:566:G:H8	1.68	0.59
52:M6:65:ASN:OD1	52:M6:67:THR:HB	2.03	0.59
72:O6:58:ILE:HG22	72:O6:90:MET:HG3	1.85	0.59
1:6:194:U:O2	1:6:195:G:O2'	2.19	0.59
1:6:385:A:H2'	1:6:386:G:C8	2.38	0.59
4:s2:45:VAL:HG21	4:s2:68:ILE:HG23	1.84	0.59
11:s9:34:PHE:O	11:s9:110:GLN:NE2	2.35	0.59
36:5:86:G:O2'	36:5:98:G:O6	2.15	0.59
36:5:96:G:OP1	49:m3:15:ARG:NH2	2.36	0.59
36:5:661:G:OP2	64:n8:12:ARG:NH2	2.35	0.59
36:5:944:C:H4'	68:o2:33:ARG:HH11	1.68	0.59
36:5:1414:G:N7	85:5:3983:OHX:N1	2.51	0.59
40:l3:77:THR:HG23	40:l3:326:GLY:O	2.02	0.59
42:l5:107:ARG:NH1	42:l5:120:LYS:O	2.36	0.59
47:m0:218:ALA:O	85:m0:301:OHX:N3	2.36	0.59
52:m6:85:ARG:HD3	52:m6:90:HIS:CG	2.38	0.59
81:p0:25:LEU:HB3	81:p0:191:TYR:HB3	1.84	0.59
3:S1:61:LEU:O	3:S1:63:GLY:N	2.35	0.59
18:C6:123:ARG:HG3	18:C6:124:PRO:HD2	1.84	0.59
36:1:2433:U:H1'	51:M5:125:SER:HB3	1.85	0.59
36:1:2611:U:H2'	36:1:2612:U:C6	2.38	0.59
36:1:2717:U:OP1	85:1:3843:OHX:N6	2.35	0.59
36:1:2927:C:H2'	36:1:2928:C:C6	2.38	0.59
36:1:3315:G:OP1	40:L3:174:LYS:NZ	2.30	0.59
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.84	0.59
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	1.85	0.59
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.67	0.59
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.37	0.59
1:6:992:A:OP1	85:6:2016:OHX:N1	2.35	0.59
1:6:1565:C:OP1	20:c8:41:ARG:HD3	2.02	0.59
2:s0:83:GLN:H	2:s0:204:TYR:HH	1.50	0.59
6:s4:11:ARG:HB2	6:s4:27:TYR:C	2.28	0.59
23:d1:24:ILE:HD13	23:d1:31:SER:HB2	1.84	0.59
28:d6:12:LYS:HD2	28:d6:16:GLY:H	1.68	0.59
36:5:3243:A:C8	52:m6:156:LEU:HD13	2.38	0.59
45:l8:160:ILE:HG23	45:l8:164:VAL:HG13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:m7:112:LEU:HG	53:m7:150:VAL:HB	1.85	0.59
55:m9:123:LEU:O	55:m9:127:SER:OG	2.21	0.59
1:2:1228:G:H5'	1:2:1229:G:C8	2.37	0.59
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.68	0.59
9:S7:28:GLU:HG2	9:S7:35:LYS:HG3	1.85	0.59
18:C6:32:ASN:N	18:C6:67:VAL:O	2.18	0.59
36:1:1740:U:H1'	36:1:1741:A:H2	1.68	0.59
44:L7:210:PRO:HD3	44:L7:243:MET:HE3	1.83	0.59
48:M1:117:ASP:OD2	48:M1:119:SER:OG	2.17	0.59
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.28	0.59
1:6:1227:A:H4'	1:6:1228:G:H5'	1.85	0.59
4:s2:140:ARG:HG2	4:s2:155:ALA:HB2	1.85	0.59
7:s5:43:PHE:N	7:s5:46:TRP:O	2.34	0.59
22:d0:24:ILE:HG12	22:d0:116:VAL:HG12	1.83	0.59
36:5:2874:G:OP1	36:5:2874:G:H4'	2.01	0.59
46:l9:113:GLU:OE1	46:l9:115:ARG:NE	2.32	0.59
1:2:420:A:OP1	8:S6:96:SER:OG	2.21	0.58
1:2:491:C:N3	1:2:496:G:N2	2.47	0.58
1:2:887:A:H1'	16:C4:122:PRO:HB3	1.85	0.58
1:2:1606:C:H2'	1:2:1607:G:C8	2.37	0.58
5:S3:137:VAL:HB	5:S3:185:LYS:HB2	1.85	0.58
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.36	0.58
19:C7:33:ARG:NH2	34:SR:109:ASP:OD2	2.35	0.58
23:D1:62:ARG:HH22	24:D2:20:THR:HG22	1.68	0.58
36:1:2561:A:N1	45:L8:32:LYS:HB2	2.18	0.58
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.03	0.58
46:L9:9:GLN:HG3	46:L9:52:LEU:HD21	1.84	0.58
51:M5:28:TRP:O	51:M5:32:GLN:HG2	2.03	0.58
55:M9:4:LEU:HB3	55:M9:24:LEU:HD23	1.85	0.58
74:O8:8:ILE:H	74:O8:8:ILE:HD12	1.66	0.58
1:6:819:G:O2'	1:6:821:U:OP2	2.20	0.58
1:6:1350:U:H2'	1:6:1351:G:C8	2.37	0.58
1:6:1783:C:H2'	1:6:1784:C:H6	1.67	0.58
5:s3:94:ARG:O	5:s3:101:GLN:NE2	2.33	0.58
19:c7:90:ALA:HB3	19:c7:95:ARG:HD2	1.85	0.58
36:5:173:G:H1'	36:5:174:C:H5'	1.84	0.58
36:5:2102:U:H2'	36:5:2103:U:H6	1.68	0.58
36:5:2123:G:N7	85:5:3941:OHX:N1	2.51	0.58
48:m1:108:GLU:HG2	48:m1:122:ILE:HG21	1.85	0.58
1:2:325:G:H4'	13:C1:83:THR:HG21	1.84	0.58
1:2:652:G:H1	1:2:682:C:N4	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1535:U:O2'	1:2:1536:G:N3	2.34	0.58
10:S8:138:ASN:OD1	10:S8:138:ASN:N	2.32	0.58
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.67	0.58
36:1:1240:A:H2	36:1:1248:C:H41	1.51	0.58
36:1:3160:U:H2'	36:1:3161:C:C6	2.39	0.58
85:1:3832:OHX:N3	85:1:4009:OHX:N1	2.51	0.58
38:4:151:C:C4	61:N5:24:LEU:HD11	2.38	0.58
44:L7:88:ARG:HD2	44:L7:90:LYS:O	2.03	0.58
53:M7:40:GLU:O	53:M7:43:LYS:N	2.36	0.58
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.36	0.58
1:6:894:U:H2'	1:6:895:G:C8	2.37	0.58
36:5:2407:C:H1'	36:5:2818:U:O2	2.04	0.58
36:5:2514:U:H6	36:5:2514:U:OP1	1.86	0.58
38:8:79:A:H3'	38:8:80:A:H8	1.66	0.58
42:l5:209:GLU:OE1	85:l5:301:OHX:N5	2.36	0.58
64:n8:77:LYS:O	64:n8:79:TRP:N	2.30	0.58
1:2:363:G:OP1	85:2:2037:OHX:N2	2.36	0.58
1:2:689:G:O6	85:2:2108:OHX:N1	2.36	0.58
1:2:1776:A:H2'	1:2:1777:G:C8	2.38	0.58
36:1:172:G:N7	85:1:3852:OHX:N5	2.51	0.58
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.84	0.58
48:M1:23:VAL:HG11	48:M1:29:ARG:HG2	1.84	0.58
57:N1:83:ARG:NH1	57:N1:85:LEU:HD21	2.18	0.58
36:5:2102:U:H2'	36:5:2103:U:C6	2.38	0.58
36:5:2586:G:C8	45:l8:241:LYS:HD3	2.38	0.58
36:5:3112:G:N7	85:5:3761:OHX:N6	2.51	0.58
39:l2:104:LEU:O	39:l2:139:HIS:HE1	1.85	0.58
40:l3:41:VAL:HA	40:l3:185:GLY:CA	2.30	0.58
40:l3:252:ILE:HG13	40:l3:266:ARG:NH2	2.16	0.58
45:l8:133:LYS:HB2	45:l8:199:ALA:O	2.04	0.58
47:m0:76:MET:CE	47:m0:148:VAL:HA	2.33	0.58
63:n7:101:PHE:HA	63:n7:107:ARG:HE	1.67	0.58
63:n7:102:GLU:H	63:n7:107:ARG:NH2	2.00	0.58
4:S2:44:LEU:HD11	4:S2:247:ALA:HB2	1.84	0.58
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.27	0.58
12:C0:1:MET:HG2	12:C0:2:LEU:H	1.68	0.58
15:C3:87:ASP:OD2	15:C3:88:LEU:N	2.34	0.58
20:C8:54:LEU:H	20:C8:54:LEU:HD22	1.69	0.58
23:D1:64:GLU:OE1	29:D7:3:LEU:HB2	2.04	0.58
35:SM:84:LYS:HG2	35:SM:86:ASN:N	2.17	0.58
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:104:LYS:HD2	41:L4:106:TRP:CZ2	2.39	0.58
72:O6:54:GLU:OE2	72:O6:86:LYS:NZ	2.36	0.58
1:6:647:G:N2	1:6:687:G:H22	2.02	0.58
1:6:1015:U:OP1	85:6:2018:OHX:N3	2.36	0.58
1:6:1555:A:OP2	17:c5:47:ARG:NH2	2.30	0.58
1:6:1797:A:N1	28:d6:87:ARG:HD2	2.18	0.58
17:c5:25:LEU:HA	17:c5:28:MET:HE2	1.85	0.58
27:d5:71:ILE:HG21	27:d5:76:ALA:HB2	1.84	0.58
37:7:44:C:H4'	42:l5:152:ARG:HG3	1.85	0.58
44:l7:103:LEU:HA	44:l7:130:ILE:HD11	1.86	0.58
61:n5:50:ALA:HB2	71:o5:79:ASP:HB3	1.85	0.58
71:o5:118:ILE:O	71:o5:119:LYS:HB2	2.03	0.58
1:2:1795:U:H3'	28:D6:5:ARG:NH1	2.18	0.58
16:C4:50:ALA:O	16:C4:52:ARG:N	2.35	0.58
30:D8:10:ALA:HA	30:D8:32:PHE:HA	1.86	0.58
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.30	0.58
36:1:2376:G:H2'	36:1:2377:G:C8	2.38	0.58
1:6:329:G:H2'	1:6:330:G:C8	2.38	0.58
1:6:837:G:H2'	1:6:838:G:H8	1.68	0.58
1:6:1521:G:O6	21:c9:68:ARG:NH1	2.36	0.58
36:5:98:G:OP1	49:m3:16:LYS:NZ	2.35	0.58
36:5:1223:A:H8	36:5:1223:A:OP2	1.86	0.58
36:5:3151:U:OP1	40:l3:128:LYS:NZ	2.33	0.58
85:5:3822:OHX:N2	85:5:4035:OHX:N5	2.51	0.58
38:8:19:C:OP2	85:8:218:OHX:N2	2.36	0.58
56:n0:42:TRP:CZ2	56:n0:58:ILE:HG13	2.38	0.58
81:p0:9:ALA:HA	81:p0:12:PHE:HB2	1.86	0.58
1:2:397:A:O3'	10:S8:50:GLY:HA2	2.04	0.58
1:2:953:G:H2'	1:2:954:G:C8	2.38	0.58
1:2:993:A:OP1	1:2:1777:G:N2	2.24	0.58
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.85	0.58
21:C9:30:VAL:HG12	21:C9:54:PHE:CD2	2.39	0.58
36:1:1489:A:OP1	70:O4:10:ARG:NH1	2.36	0.58
36:1:2097:U:H2'	36:1:2098:C:C6	2.38	0.58
36:1:3233:C:H2'	36:1:3234:A:C8	2.39	0.58
47:M0:208:ASN:OD1	47:M0:208:ASN:N	2.23	0.58
53:M7:48:LEU:HD13	53:M7:92:GLN:HB3	1.85	0.58
67:O1:88:PRO:HG2	67:O1:89:LEU:HD13	1.86	0.58
1:6:151:G:O6	26:d4:124:ARG:NH2	2.35	0.58
1:6:800:U:H2'	1:6:801:G:C8	2.37	0.58
1:6:1619:C:H1'	30:d8:22:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c8:17:LEU:O	20:c8:20:THR:N	2.23	0.58
64:n8:112:ILE:HB	64:n8:130:VAL:HG12	1.85	0.58
1:2:1213:G:O6	85:2:1989:OHX:N3	2.35	0.58
3:S1:81:PHE:HD2	3:S1:82:ARG:HG3	1.67	0.58
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	1.69	0.58
20:C8:123:ARG:HG3	20:C8:133:VAL:HG21	1.86	0.58
34:SR:256:THR:OG1	34:SR:259:GLY:O	2.15	0.58
35:SM:41:SER:C	35:SM:43:ASP:H	2.11	0.58
35:SM:47:ALA:HB2	36:1:2678:A:C8	2.39	0.58
52:M6:62:THR:H	52:M6:69:GLY:HA3	1.69	0.58
1:6:218:A:H2'	1:6:219:A:H5''	1.86	0.58
1:6:565:C:O2	85:6:2120:OHX:N1	2.36	0.58
6:s4:181:VAL:HG21	6:s4:195:ILE:HD11	1.86	0.58
11:s9:9:SER:HB3	85:s9:201:OHX:N2	2.18	0.58
41:l4:6:VAL:N	41:l4:20:LEU:O	2.29	0.58
44:l7:142:SER:O	44:l7:146:GLN:HG3	2.03	0.58
62:n6:82:VAL:O	62:n6:84:LYS:N	2.37	0.58
1:2:1330:G:N2	5:S3:204:ASP:OD1	2.36	0.58
1:2:1433:G:C8	31:D9:41:GLN:HG2	2.39	0.58
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.04	0.58
62:N6:3:LYS:HD2	62:N6:8:VAL:HG13	1.85	0.58
1:6:369:A:O2'	1:6:371:G:OP2	2.16	0.58
2:s0:126:PRO:HG2	2:s0:151:SER:HB2	1.85	0.58
26:d4:29:HIS:HB2	26:d4:67:GLY:HA2	1.85	0.58
36:5:249:U:O2'	36:5:250:U:H5''	2.04	0.58
36:5:1447:G:H3'	53:m7:67:ILE:HD11	1.85	0.58
36:5:1586:G:OP1	85:5:3835:OHX:N3	2.37	0.58
46:l9:156:GLN:NE2	46:l9:160:ASP:OD1	2.37	0.58
46:l9:166:ARG:HH21	46:l9:168:ARG:NH1	2.02	0.58
1:2:843:U:H2'	1:2:844:A:C8	2.39	0.58
1:2:1015:U:OP1	85:2:2004:OHX:N6	2.36	0.58
6:S4:105:VAL:HG13	6:S4:243:GLY:HA2	1.85	0.58
15:C3:23:PRO:O	15:C3:25:TRP:N	2.36	0.58
21:C9:30:VAL:HG12	21:C9:54:PHE:HD2	1.69	0.58
27:D5:96:SER:O	27:D5:98:GLN:N	2.37	0.58
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.39	0.58
60:N4:50:ALA:HA	60:N4:55:PHE:CG	2.39	0.58
62:N6:51:ARG:HG2	62:N6:115:ARG:NH2	2.18	0.58
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.86	0.58
72:O6:97:SER:C	72:O6:99:ARG:H	2.12	0.58
11:s9:123:HIS:HD2	32:e0:33:ARG:HE	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:912:G:N1	39:l2:208:ASP:OD2	2.24	0.58
36:5:2442:G:H22	36:5:2506:U:H3	1.52	0.58
36:5:3152:U:O2	85:5:4056:OHX:N5	2.37	0.58
85:5:3822:OHX:N6	85:5:4035:OHX:N3	2.52	0.58
1:2:348:U:O4	85:2:2086:OHX:N5	2.37	0.58
1:2:365:G:N7	85:2:2065:OHX:N5	2.52	0.58
1:2:693:U:H5'	1:2:694:U:H5'	1.85	0.58
10:S8:10:LYS:HG2	13:C1:133:LYS:HE3	1.85	0.58
17:C5:79:HIS:O	17:C5:81:ARG:N	2.36	0.58
27:D5:61:SER:H	27:D5:64:VAL:HB	1.69	0.58
34:SR:74:THR:HG1	34:SR:78:ALA:H	1.52	0.58
36:1:18:G:OP2	61:N5:46:TYR:OH	2.20	0.58
36:1:1483:G:O6	70:O4:4:ARG:NH2	2.37	0.58
36:1:2836:C:H5	36:1:2852:C:N4	1.97	0.58
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.84	0.58
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	1.85	0.58
52:M6:88:VAL:O	52:M6:90:HIS:N	2.37	0.58
59:N3:10:LYS:NZ	59:N3:53:SER:OG	2.36	0.58
61:N5:63:ILE:HA	61:N5:86:VAL:HG23	1.86	0.58
1:6:1238:A:OP2	85:6:2060:OHX:N1	2.36	0.58
3:s1:157:GLN:HB2	3:s1:160:HIS:CE1	2.39	0.58
8:s6:153:VAL:O	8:s6:155:ASP:N	2.37	0.58
36:5:743:C:N3	54:m8:141:ARG:NH1	2.51	0.58
36:5:2225:U:H2'	36:5:2226:U:H6	1.69	0.58
41:l4:226:GLU:OE2	41:l4:246:ARG:NH2	2.37	0.58
52:m6:65:ASN:OD1	52:m6:67:THR:HB	2.04	0.58
65:n9:14:ARG:NH1	65:n9:18:ARG:HD3	2.18	0.58
78:q2:46:LYS:HD3	78:q2:54:THR:HB	1.85	0.58
1:2:826:U:H2'	1:2:827:C:C6	2.39	0.57
1:2:896:U:H1'	16:C4:38:THR:HG21	1.86	0.57
4:S2:108:ASN:HA	4:S2:141:ARG:HH12	1.69	0.57
17:C5:28:MET:O	17:C5:32:ASP:HB2	2.04	0.57
36:1:314:U:H2'	36:1:315:C:C6	2.39	0.57
36:1:1686:U:O2	36:1:1688:U:H1'	2.03	0.57
36:1:1878:G:OP1	85:1:3787:OHX:N4	2.37	0.57
36:1:2823:G:O6	85:1:3764:OHX:N1	2.37	0.57
36:1:3174:A:OP1	69:O3:97:SER:OG	2.12	0.57
36:1:3294:A:H2'	36:1:3295:A:O4'	2.04	0.57
42:L5:91:GLY:O	42:L5:94:ASN:ND2	2.37	0.57
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.37	0.57
1:6:1230:A:H8	1:6:1258:U:C4	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:139:ILE:HD11	4:s2:218:ILE:HD13	1.85	0.57
7:s5:87:CYS:SG	7:s5:92:ARG:HG3	2.43	0.57
24:d2:41:MET:HG2	24:d2:129:VAL:HG21	1.86	0.57
24:d2:105:THR:OG1	24:d2:126:LEU:HG	2.03	0.57
34:sR:10:ARG:NH1	34:sR:51:ASP:OD1	2.37	0.57
34:sR:159:ASN:O	34:sR:161:LYS:N	2.34	0.57
46:l9:117:PHE:CE1	46:l9:165:CYS:HB3	2.39	0.57
51:m5:39:ALA:HB3	51:m5:61:ILE:HG22	1.86	0.57
1:2:422:G:N7	85:2:2067:OHX:N5	2.52	0.57
1:2:978:A:H2'	1:2:979:A:O4'	2.04	0.57
1:2:1487:A:H2'	1:2:1488:G:C8	2.39	0.57
1:2:1699:G:N2	1:2:1701:A:H5''	2.19	0.57
5:S3:116:ARG:HH12	35:SM:113:ASP:HA	1.69	0.57
8:S6:55:GLY:O	8:S6:63:MET:HG3	2.04	0.57
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.86	0.57
36:1:1064:A:H4'	36:1:1065:A:O5'	2.03	0.57
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.37	0.57
36:1:3153:U:O2	36:1:3158:G:N1	2.37	0.57
36:1:3343:G:H21	36:1:3362:A:H2	1.51	0.57
42:L5:144:VAL:HG12	42:L5:173:VAL:HG22	1.86	0.57
1:6:318:U:O4	85:6:2124:OHX:N4	2.37	0.57
1:6:578:U:H4'	1:6:579:A:H5'	1.84	0.57
1:6:751:G:H2'	1:6:752:A:C8	2.39	0.57
27:d5:57:TYR:CE2	27:d5:68:ARG:HD3	2.38	0.57
34:sR:295:SER:HB3	34:sR:302:PHE:HE2	1.69	0.57
36:5:107:A:OP1	49:m3:39:ARG:NH1	2.36	0.57
36:5:439:C:H4'	36:5:440:A:H5'	1.87	0.57
85:5:3854:OHX:N4	85:5:4037:OHX:N1	2.52	0.57
38:8:42:G:OP1	73:o7:60:GLY:N	2.33	0.57
47:m0:36:LEU:HD21	47:m0:69:ARG:HD3	1.85	0.57
61:n5:105:VAL:HG13	61:n5:130:TYR:CD2	2.39	0.57
64:n8:6:THR:HG23	64:n8:8:THR:HG23	1.86	0.57
1:2:222:A:N6	1:2:840:U:O4	2.37	0.57
1:2:635:A:H2'	1:2:636:A:C8	2.39	0.57
1:2:1470:C:OP1	1:2:1540:G:O2'	2.20	0.57
36:1:1743:G:H2'	36:1:1744:G:H8	1.69	0.57
36:1:2163:C:H4'	39:L2:8:GLN:HA	1.86	0.57
36:1:2218:G:H2'	36:1:2219:A:C8	2.37	0.57
42:L5:22:ARG:NH2	42:L5:28:THR:OG1	2.28	0.57
42:L5:155:THR:HA	42:L5:179:ARG:HA	1.86	0.57
1:6:193:U:C2	1:6:195:G:H1'	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:694:U:H3'	1:6:695:U:O2	2.04	0.57
1:6:837:G:H2'	1:6:838:G:C8	2.38	0.57
1:6:885:G:H21	16:c4:123:SER:HB2	1.69	0.57
1:6:886:U:O2'	16:c4:121:VAL:O	2.23	0.57
1:6:1227:A:H3'	14:c2:118:ALA:HA	1.85	0.57
18:c6:112:TYR:CZ	18:c6:114:ARG:HD2	2.39	0.57
36:5:76:G:O2'	49:m3:100:ARG:NH1	2.36	0.57
36:5:1003:A:H1'	42:l5:15:ARG:NH1	2.18	0.57
36:5:3352:U:O2'	85:5:4060:OHX:N1	2.37	0.57
39:l2:14:SER:OG	39:l2:15:ILE:N	2.30	0.57
45:l8:65:LEU:HD12	51:m5:25:VAL:HG13	1.85	0.57
47:m0:175:ASN:CG	47:m0:176:LEU:H	2.12	0.57
54:m8:182:LYS:NZ	64:n8:55:LYS:O	2.37	0.57
61:n5:57:LEU:HD22	61:n5:62:VAL:HG22	1.84	0.57
13:C1:5:LEU:O	13:C1:7:VAL:N	2.27	0.57
34:SR:29:GLN:HG3	34:SR:32:LEU:HB3	1.86	0.57
36:1:143:G:H4'	38:4:145:U:OP1	2.04	0.57
36:1:191:U:H2'	36:1:192:C:C6	2.39	0.57
37:3:60:G:H2'	37:3:61:G:C8	2.36	0.57
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.85	0.57
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.85	0.57
63:N7:26:VAL:HG21	63:N7:96:VAL:HB	1.85	0.57
1:6:1058:U:H4'	1:6:1059:U:OP1	2.03	0.57
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.38	0.57
17:c5:67:ALA:O	85:c5:201:OHX:N5	2.37	0.57
36:5:1409:G:O6	85:5:3998:OHX:N6	2.38	0.57
36:5:2962:U:OP1	85:5:3822:OHX:N4	2.38	0.57
74:o8:44:LYS:HG2	74:o8:53:THR:HB	1.87	0.57
1:2:1429:G:H1'	22:D0:74:GLU:HG2	1.84	0.57
18:C6:38:LEU:O	18:C6:40:GLU:N	2.37	0.57
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.85	0.57
31:D9:33:LYS:O	31:D9:36:LEU:HD23	2.04	0.57
36:1:544:C:H1'	36:1:548:G:N2	2.19	0.57
36:1:3060:C:OP1	85:1:3899:OHX:N4	2.37	0.57
44:L7:88:ARG:HG2	44:L7:111:ILE:HA	1.87	0.57
55:M9:23:TRP:CZ3	55:M9:25:ASP:HB2	2.40	0.57
1:6:1558:U:H3	17:c5:122:THR:HG22	1.69	0.57
8:s6:35:GLU:HG2	8:s6:51:LYS:HB2	1.85	0.57
36:5:252:U:H4'	36:5:253:A:C5'	2.35	0.57
36:5:1688:U:H2'	36:5:1689:U:C6	2.39	0.57
49:m3:64:LYS:HG3	64:n8:69:TRP:CG	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:n2:19:VAL:O	58:n2:23:THR:OG1	2.16	0.57
1:2:197:A:N1	10:S8:138:ASN:ND2	2.53	0.57
1:2:280:U:O2'	1:2:281:G:OP2	2.17	0.57
1:2:958:U:O4	15:C3:12:SER:OG	2.19	0.57
6:S4:205:PHE:HB3	6:S4:221:ARG:HD2	1.87	0.57
9:S7:41:LEU:HB3	9:S7:70:PHE:CE1	2.40	0.57
17:C5:24:LYS:O	17:C5:28:MET:HB2	2.04	0.57
19:C7:24:LEU:HD23	19:C7:34:LEU:HD13	1.86	0.57
36:1:3151:U:H4'	36:1:3294:A:H1'	1.86	0.57
41:L4:23:PRO:HB3	41:L4:258:LEU:HB3	1.85	0.57
1:6:325:G:H4'	13:c1:83:THR:HG21	1.87	0.57
1:6:578:U:O2	85:6:2116:OHX:N3	2.38	0.57
8:s6:64:LYS:HD3	8:s6:97:VAL:HG21	1.85	0.57
36:5:860:G:C5	39:l2:181:LYS:HB2	2.39	0.57
36:5:2520:A:H2'	36:5:2521:U:C6	2.39	0.57
45:l8:33:ASN:O	45:l8:35:GLY:N	2.37	0.57
47:m0:49:CYS:HB3	47:m0:168:SER:HB3	1.86	0.57
54:m8:83:VAL:O	54:m8:85:GLY:N	2.37	0.57
70:o4:3:GLN:HE22	70:o4:29:ILE:HG12	1.69	0.57
81:p0:80:VAL:HA	81:p0:84:VAL:HG21	1.86	0.57
1:2:1165:G:O6	1:2:1166:A:N6	2.38	0.57
1:2:1508:U:O4	85:2:1991:OHX:N5	2.37	0.57
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.40	0.57
9:S7:109:VAL:HG22	9:S7:110:GLN:H	1.68	0.57
36:1:103:G:OP1	49:M3:70:ARG:NH2	2.37	0.57
36:1:1010:G:N2	47:M0:193:ASP:OD2	2.37	0.57
36:1:1245:A:H3'	36:1:1246:G:H5''	1.87	0.57
36:1:2128:C:OP1	85:1:3817:OHX:N4	2.37	0.57
36:1:2768:U:H2'	36:1:2769:A:H8	1.69	0.57
41:L4:118:LYS:O	41:L4:122:THR:HG23	2.05	0.57
55:M9:104:ARG:HB3	55:M9:104:ARG:HH11	1.70	0.57
56:N0:80:ARG:HB2	56:N0:124:LEU:HD11	1.87	0.57
1:6:878:G:N7	85:6:2077:OHX:N1	2.52	0.57
1:6:1066:C:O2'	3:s1:148:ASN:OD1	2.19	0.57
1:6:1280:C:H2'	1:6:1281:G:C8	2.40	0.57
1:6:1553:G:O2'	31:d9:14:TYR:OH	2.20	0.57
6:s4:121:TYR:HA	6:s4:163:ASP:O	2.04	0.57
25:d3:59:ILE:HG13	32:e0:4:VAL:HG22	1.87	0.57
36:5:25:U:O4	85:5:3750:OHX:N6	2.38	0.57
36:5:2530:G:H2'	36:5:2531:C:H5''	1.87	0.57
36:5:3066:U:O4	85:5:3947:OHX:N3	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:201:GLY:O	39:l2:204:MET:HB2	2.05	0.57
40:l3:299:ASP:OD1	40:l3:301:THR:HG23	2.05	0.57
56:n0:16:THR:OG1	56:n0:19:VAL:N	2.36	0.57
64:n8:119:PRO:O	64:n8:121:VAL:N	2.35	0.57
1:2:422:G:OP1	85:2:2002:OHX:N6	2.38	0.57
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.85	0.57
11:S9:129:ILE:HG22	11:S9:142:ASN:HA	1.86	0.57
36:1:2403:G:C8	36:1:2870:C:H4'	2.39	0.57
46:L9:174:LYS:HB2	76:Q0:127:LEU:HD11	1.85	0.57
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.87	0.57
1:6:301:A:OP2	85:6:2056:OHX:N1	2.38	0.57
1:6:961:U:H2'	1:6:962:C:C6	2.39	0.57
4:s2:44:LEU:HD21	4:s2:247:ALA:HB2	1.87	0.57
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.85	0.57
11:s9:134:ILE:HD13	11:s9:141:VAL:O	2.05	0.57
11:s9:157:ASP:OD1	11:s9:158:PHE:N	2.37	0.57
36:5:2617:U:O3'	47:m0:116:ARG:NH2	2.32	0.57
36:5:2988:C:P	52:m6:68:ARG:HH12	2.28	0.57
36:5:3035:A:OP2	85:5:3894:OHX:N5	2.38	0.57
38:8:95:G:H1'	73:o7:81:GLY:O	2.04	0.57
41:l4:283:THR:HG22	41:l4:285:ASP:H	1.69	0.57
47:m0:41:ALA:O	47:m0:139:ARG:NH2	2.36	0.57
54:m8:170:ARG:O	54:m8:171:LYS:HB2	2.04	0.57
63:n7:52:LYS:O	63:n7:65:ARG:NH1	2.38	0.57
1:2:1064:G:O2'	3:S1:204:ILE:O	2.23	0.57
1:2:1098:U:OP2	4:S2:168:ARG:NH2	2.38	0.57
3:S1:88:VAL:HG11	3:S1:96:LEU:HD12	1.86	0.57
36:1:149:U:P	51:M5:49:ARG:HH22	2.28	0.57
36:1:174:C:H2'	36:1:175:C:C6	2.40	0.57
36:1:2101:C:O2'	36:1:2102:U:O5'	2.23	0.57
36:1:2768:U:H2'	36:1:2769:A:C8	2.40	0.57
57:N1:78:LYS:HG2	57:N1:87:LYS:HD2	1.86	0.57
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	1.87	0.57
73:O7:65:ARG:HG3	73:O7:65:ARG:NH1	2.17	0.57
85:6:2023:OHX:N2	85:6:2109:OHX:N4	2.53	0.57
17:c5:22:LEU:HA	17:c5:25:LEU:HB2	1.86	0.57
17:c5:92:SER:HB2	17:c5:107:ILE:HD11	1.87	0.57
18:c6:112:TYR:O	18:c6:114:ARG:NH1	2.38	0.57
19:c7:89:SER:C	19:c7:95:ARG:HH11	2.12	0.57
36:5:977:C:OP1	54:m8:141:ARG:NH2	2.37	0.57
36:5:3280:U:O2'	36:5:3281:U:H5''	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:l2:169:ILE:HG22	39:l2:170:ALA:O	2.04	0.57
42:l5:40:HIS:CE1	42:l5:42:ALA:HB3	2.40	0.57
52:m6:36:VAL:HB	52:m6:108:ILE:HG22	1.85	0.57
1:2:275:C:N3	1:2:276:C:N4	2.52	0.57
1:2:1073:G:H4'	15:C3:10:GLY:HA2	1.87	0.57
1:2:1482:C:OP2	1:2:1521:G:N2	2.37	0.57
1:2:1798:U:H2'	28:D6:38:ARG:HH12	1.69	0.57
34:SR:85:TRP:HA	34:SR:109:ASP:HB3	1.86	0.57
36:1:3001:C:H2'	36:1:3002:C:H6	1.70	0.57
36:1:3121:U:H1'	36:1:3122:A:H5''	1.86	0.57
36:1:3230:G:H4'	50:M4:132:LYS:HD3	1.87	0.57
36:1:3335:A:N7	36:1:3370:A:O2'	2.38	0.57
45:L8:163:VAL:HG22	45:L8:166:LEU:HD12	1.86	0.57
63:N7:81:LEU:HD11	70:O4:90:ILE:HG23	1.86	0.57
67:O1:98:VAL:HG21	67:O1:104:LEU:HD11	1.85	0.57
1:6:332:U:OP2	10:s8:175:GLN:NE2	2.38	0.57
1:6:363:G:OP1	85:6:2075:OHX:N1	2.38	0.57
1:6:1081:A:H1'	1:6:1082:C:C5	2.40	0.57
21:c9:115:GLU:OE1	21:c9:123:ARG:NH1	2.35	0.57
36:5:1065:A:N1	65:n9:26:THR:HG23	2.19	0.57
36:5:2676:A:H4'	36:5:2677:G:O5'	2.04	0.57
36:5:3022:G:O2'	36:5:3031:G:O6	2.21	0.57
38:8:63:G:O2'	71:o5:49:LYS:NZ	2.31	0.57
39:l2:45:VAL:HG22	39:l2:84:THR:HA	1.87	0.57
48:m1:101:ASN:HB3	48:m1:130:VAL:HA	1.87	0.57
54:m8:58:ASN:HB3	54:m8:144:ARG:NH2	2.20	0.57
68:o2:19:ARG:HH11	68:o2:28:VAL:HG13	1.69	0.57
83:p2:16:UNK:O	83:p2:18:UNK:N	2.37	0.57
1:2:717:C:H42	1:2:720:G:H22	1.53	0.56
3:S1:123:ALA:HB2	3:S1:165:ARG:HG2	1.87	0.56
23:D1:17:CYS:HB2	23:D1:56:SER:HB3	1.87	0.56
30:D8:15:VAL:HA	30:D8:28:VAL:HG22	1.86	0.56
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.05	0.56
36:1:2338:C:H1'	59:N3:49:LEU:HD12	1.87	0.56
36:1:3231:U:H2'	36:1:3232:G:C8	2.39	0.56
38:4:45:C:H2'	38:4:46:G:O4'	2.05	0.56
40:L3:68:HIS:CE1	40:L3:69:LYS:HG3	2.40	0.56
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.37	0.56
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.39	0.56
1:6:140:A:OP2	1:6:140:A:H4'	2.04	0.56
1:6:1234:A:H4'	33:e1:146:SER:HB3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:12:ALA:HB3	9:s7:13:PRO:HD3	1.87	0.56
17:c5:22:LEU:HA	17:c5:25:LEU:HD12	1.87	0.56
34:sR:95:ALA:O	34:sR:97:GLY:N	2.37	0.56
36:5:661:G:P	64:n8:12:ARG:HH22	2.28	0.56
36:5:3191:G:O6	85:5:3979:OHX:N6	2.38	0.56
85:5:3854:OHX:N3	85:5:4037:OHX:N1	2.53	0.56
40:l3:19:ARG:HB3	40:l3:232:ARG:NH1	2.20	0.56
56:n0:13:ARG:HG3	56:n0:13:ARG:NH1	2.19	0.56
1:2:66:U:OP1	8:S6:136:LYS:NZ	2.31	0.56
1:2:142:G:H22	1:2:173:A:H2	1.53	0.56
1:2:478:A:OP1	32:E0:37:ARG:NH1	2.38	0.56
1:2:1349:G:H1	1:2:1376:C:N4	2.03	0.56
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.69	0.56
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	1.86	0.56
22:D0:28:SER:OG	22:D0:29:THR:N	2.36	0.56
32:E0:50:VAL:HA	32:E0:53:LYS:O	2.04	0.56
85:1:3832:OHX:N3	85:1:4009:OHX:N4	2.53	0.56
47:M0:142:ASP:OD1	47:M0:178:ARG:NH2	2.37	0.56
54:M8:86:THR:HG22	54:M8:105:ARG:HB2	1.87	0.56
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.87	0.56
78:Q2:69:VAL:HG22	78:Q2:84:THR:HB	1.86	0.56
1:6:1619:C:H1'	30:d8:22:ARG:NH1	2.21	0.56
5:s3:168:ILE:HD12	5:s3:187:LYS:HD3	1.87	0.56
30:d8:26:THR:O	30:d8:44:VAL:HG22	2.05	0.56
34:sR:132:LYS:HG2	34:sR:143:THR:HG23	1.87	0.56
36:5:1687:U:OP2	58:n2:42:LYS:NZ	2.38	0.56
36:5:2225:U:H2'	36:5:2226:U:C6	2.40	0.56
36:5:2754:G:O2'	36:5:2755:C:OP1	2.21	0.56
39:l2:149:ARG:NH2	39:l2:252:THR:O	2.38	0.56
44:l7:216:VAL:HG11	44:l7:227:GLY:HA3	1.86	0.56
46:l9:8:GLN:NE2	46:l9:69:ARG:HG2	2.19	0.56
58:n2:59:ASP:OD1	58:n2:60:GLY:N	2.38	0.56
1:2:38:C:C2'	1:2:39:A:H5'	2.35	0.56
1:2:1280:C:H2'	1:2:1281:G:C8	2.38	0.56
6:S4:155:LYS:N	6:S4:158:ASP:OD2	2.29	0.56
8:S6:163:THR:HA	8:S6:168:THR:HA	1.87	0.56
9:S7:50:ASP:HA	9:S7:56:LYS:HA	1.86	0.56
9:S7:66:SER:O	9:S7:68:ALA:N	2.38	0.56
35:SM:34:LYS:NZ	36:1:2707:C:OP1	2.33	0.56
36:1:1103:A:H4'	36:1:1103:A:OP2	2.04	0.56
40:L3:261:MET:HG2	52:M6:64:PHE:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.20	0.56
45:L8:24:ASN:N	45:L8:25:PRO:HD2	2.20	0.56
45:L8:67:ILE:HG23	45:L8:237:ILE:HB	1.86	0.56
48:M1:141:ARG:O	48:M1:145:LYS:HE2	2.05	0.56
49:M3:140:SER:OG	49:M3:143:ALA:N	2.30	0.56
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.05	0.56
53:M7:109:ALA:HA	53:M7:112:LEU:HD22	1.87	0.56
54:M8:123:THR:OG1	54:M8:125:ASP:OD2	2.23	0.56
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.05	0.56
3:s1:103:MET:HB3	3:s1:215:VAL:HG12	1.87	0.56
8:s6:67:VAL:HG23	8:s6:68:LEU:O	2.05	0.56
10:s8:188:GLU:OE2	13:c1:15:LYS:NZ	2.30	0.56
19:c7:23:LYS:HB3	19:c7:34:LEU:HD11	1.85	0.56
20:c8:134:ARG:O	20:c8:136:GLN:NE2	2.38	0.56
36:5:1573:G:C6	36:5:1574:C:H1'	2.40	0.56
36:5:1899:G:N7	85:5:3789:OHX:N6	2.54	0.56
36:5:2392:C:HO2'	40:l3:266:ARG:HH22	1.52	0.56
36:5:3155:U:H4'	36:5:3156:U:OP2	2.06	0.56
39:l2:172:GLY:HA3	79:q3:68:ALA:H	1.69	0.56
41:l4:26:PHE:HD1	41:l4:130:ALA:HB2	1.70	0.56
42:l5:178:ASN:HA	42:l5:183:TRP:CG	2.40	0.56
50:m4:60:LEU:HD13	56:n0:152:LEU:HD11	1.88	0.56
60:n4:120:LYS:HZ2	60:n4:124:LYS:HE3	1.69	0.56
11:S9:54:ARG:HA	11:S9:57:ARG:HE	1.69	0.56
19:C7:34:LEU:O	19:C7:38:ILE:HG22	2.06	0.56
28:D6:5:ARG:O	28:D6:8:ASN:N	2.37	0.56
36:1:439:C:H3'	36:1:440:A:C8	2.40	0.56
36:1:685:G:OP1	49:M3:35:ARG:HD2	2.05	0.56
36:1:911:C:H42	39:L2:3:ARG:HD3	1.71	0.56
36:1:1599:G:OP1	85:1:3944:OHX:N5	2.38	0.56
36:1:2214:A:N1	36:1:2429:G:O2'	2.38	0.56
36:1:3112:G:N7	85:1:3751:OHX:N3	2.53	0.56
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.05	0.56
42:L5:208:MET:HG2	42:L5:223:PHE:CZ	2.41	0.56
1:6:348:U:O4	85:6:2126:OHX:N4	2.38	0.56
1:6:852:C:H2'	1:6:853:G:H8	1.70	0.56
2:s0:84:ARG:HE	2:s0:88:LYS:HZ1	1.54	0.56
36:5:136:G:H5'	71:o5:95:PHE:CD2	2.40	0.56
36:5:2209:U:H4'	36:5:2210:G:OP1	2.05	0.56
36:5:2924:U:O4	85:5:3902:OHX:N2	2.38	0.56
38:8:78:G:H2'	38:8:79:A:O4'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:38:GLU:C	48:m1:40:LEU:H	2.13	0.56
1:2:1238:A:OP2	85:2:2006:OHX:N2	2.38	0.56
1:2:1536:G:C6	1:2:1538:U:H1'	2.40	0.56
1:2:1738:U:H2'	1:2:1739:C:C6	2.41	0.56
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.41	0.56
14:C2:119:SER:OG	14:C2:120:VAL:N	2.35	0.56
17:C5:130:ARG:NH2	35:SM:65:THR:O	2.38	0.56
36:1:1638:A:O3'	70:O4:52:GLN:NE2	2.39	0.56
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.05	0.56
52:M6:38:ALA:O	52:M6:41:LEU:HB2	2.05	0.56
1:6:158:U:O2'	1:6:159:U:H3'	2.05	0.56
1:6:355:G:OP1	85:6:2030:OHX:N5	2.39	0.56
2:s0:69:ASN:OD1	2:s0:69:ASN:N	2.38	0.56
4:s2:90:THR:O	4:s2:92:ALA:N	2.38	0.56
6:s4:199:GLU:HB3	6:s4:207:LEU:HB2	1.86	0.56
21:c9:10:ALA:HB3	21:c9:13:ASP:HB2	1.86	0.56
25:d3:56:LYS:NZ	25:d3:96:VAL:O	2.38	0.56
36:5:66:A:N3	51:m5:176:LYS:HE2	2.20	0.56
36:5:601:U:H2'	36:5:602:A:C8	2.41	0.56
36:5:776:U:H5	36:5:2719:U:O2	1.87	0.56
36:5:953:G:OP1	65:n9:15:LYS:NZ	2.39	0.56
36:5:1194:G:OP1	85:5:3857:OHX:N6	2.38	0.56
36:5:2180:G:H2'	36:5:2181:C:C6	2.40	0.56
42:l5:290:ILE:O	42:l5:294:ALA:N	2.32	0.56
61:n5:73:MET:HA	61:n5:73:MET:HE3	1.88	0.56
62:n6:106:ILE:HG21	62:n6:109:LEU:HD23	1.86	0.56
1:2:38:C:H2'	1:2:39:A:H5'	1.88	0.56
1:2:514:G:O2'	1:2:515:A:H5'	2.06	0.56
1:2:1291:G:H22	1:2:1324:G:H22	1.52	0.56
2:S0:83:GLN:HE21	2:S0:99:ALA:HB1	1.69	0.56
8:S6:164:LYS:O	8:S6:166:GLU:N	2.39	0.56
16:C4:126:THR:O	16:C4:126:THR:OG1	2.24	0.56
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.22	0.56
36:1:562:C:H2'	36:1:563:U:H6	1.70	0.56
36:1:1213:G:H4'	56:N0:90:MET:HG2	1.88	0.56
36:1:2120:A:OP2	85:1:3869:OHX:N2	2.39	0.56
36:1:3060:C:OP2	85:1:3899:OHX:N6	2.38	0.56
39:L2:62:VAL:HG21	39:L2:71:LEU:HD23	1.87	0.56
39:L2:95:SER:OG	39:L2:96:LEU:N	2.37	0.56
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.05	0.56
44:L7:197:GLN:OE1	44:L7:197:GLN:N	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:90:MET:HE1	56:N0:114:HIS:CE1	2.40	0.56
64:N8:82:ILE:HB	64:N8:87:ARG:HG3	1.86	0.56
1:6:1690:G:H1	1:6:1711:C:H42	1.54	0.56
36:5:30:G:O5'	51:m5:172:ARG:HD2	2.06	0.56
36:5:2997:G:N7	85:5:4020:OHX:N4	2.53	0.56
36:5:3026:G:N7	85:5:3784:OHX:N3	2.54	0.56
48:m1:17:LEU:HD21	48:m1:19:LEU:HD21	1.88	0.56
1:2:855:A:C2	1:2:857:U:H1'	2.40	0.56
1:2:1600:A:H4'	1:2:1601:G:OP1	2.06	0.56
6:S4:11:ARG:H	6:S4:27:TYR:HA	1.71	0.56
10:S8:122:GLY:O	85:S8:301:OHX:N6	2.38	0.56
36:1:1196:C:O2	85:1:3854:OHX:N2	2.38	0.56
36:1:2510:U:O2'	36:1:2511:A:H8	1.89	0.56
36:1:2636:A:H5''	36:1:2637:A:C5'	2.36	0.56
42:L5:107:ARG:NH2	42:L5:119:TYR:O	2.38	0.56
44:L7:239:LEU:O	44:L7:242:SER:OG	2.20	0.56
58:N2:37:LEU:HD23	58:N2:41:ILE:HD11	1.88	0.56
1:6:1235:C:H1'	33:e1:149:LYS:HD3	1.86	0.56
1:6:1432:U:H4'	1:6:1433:G:H5''	1.87	0.56
10:s8:184:LEU:HB3	10:s8:189:LEU:HD13	1.87	0.56
22:d0:118:VAL:HG13	22:d0:119:ALA:H	1.70	0.56
25:d3:68:ILE:O	25:d3:70:LYS:NZ	2.38	0.56
28:d6:87:ARG:NH2	28:d6:94:ASN:O	2.39	0.56
36:5:73:C:N3	49:m3:59:ARG:NH1	2.53	0.56
36:5:80:G:H2'	36:5:81:C:C6	2.41	0.56
36:5:2193:U:H5''	36:5:2194:G:H5'	1.87	0.56
37:7:7:G:O3'	42:l5:33:ARG:NH2	2.39	0.56
56:n0:141:LYS:HA	56:n0:144:LEU:HD12	1.88	0.56
1:2:1357:A:H2'	1:2:1358:G:H8	1.71	0.56
6:S4:23:LEU:HG	11:S9:6:ARG:HH12	1.70	0.56
13:C1:99:ARG:HG2	25:D3:9:LEU:HD22	1.88	0.56
13:C1:127:GLN:HB2	13:C1:137:PHE:CE1	2.41	0.56
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	1.87	0.56
18:C6:20:ALA:HB2	18:C6:67:VAL:HG13	1.88	0.56
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.87	0.56
36:1:160:G:O6	85:1:4038:OHX:N6	2.39	0.56
36:1:1443:G:N7	85:1:3837:OHX:N4	2.54	0.56
36:1:2229:A:OP1	85:1:4036:OHX:N3	2.38	0.56
36:1:2772:C:H4'	36:1:2773:C:H5'	1.88	0.56
36:1:2853:A:O3'	47:M0:64:ALA:HB2	2.05	0.56
41:L4:156:LEU:HD22	41:L4:215:ILE:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:269:SER:C	41:L4:271:LYS:H	2.12	0.56
42:L5:234:ASP:OD2	42:L5:234:ASP:N	2.39	0.56
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.40	0.56
66:O0:13:LYS:NZ	66:O0:99:ASP:OD2	2.37	0.56
67:O1:55:LEU:HB2	67:O1:95:PRO:HD3	1.87	0.56
1:6:230:C:H42	1:6:235:G:H1	1.52	0.56
2:s0:80:THR:O	2:s0:82:GLY:N	2.39	0.56
6:s4:23:LEU:H	6:s4:23:LEU:HD22	1.70	0.56
36:5:655:C:H2'	36:5:656:A:C8	2.41	0.56
36:5:789:A:H2'	36:5:790:U:C6	2.39	0.56
36:5:1192:C:C5	85:5:3933:OHX:N5	2.74	0.56
36:5:1597:C:H5'	36:5:1696:A:H1'	1.88	0.56
38:8:77:A:H2'	38:8:78:G:O4'	2.06	0.56
38:8:100:U:OP2	85:8:213:OHX:N2	2.39	0.56
49:m3:174:ARG:HG3	72:o6:9:ILE:HD12	1.88	0.56
58:n2:29:ASP:O	58:n2:32:SER:N	2.38	0.56
1:2:730:G:H21	1:2:731:C:H5'	1.71	0.56
1:2:1727:G:H21	10:S8:32:GLN:NE2	2.01	0.56
5:S3:103:GLU:OE1	5:S3:173:ARG:NH2	2.28	0.56
17:C5:19:GLY:N	20:C8:93:THR:O	2.39	0.56
17:C5:69:GLU:OE1	85:C5:201:OHX:N4	2.39	0.56
36:1:594:U:H2'	36:1:609:G:O6	2.06	0.56
47:M0:210:ILE:HA	47:M0:217:PHE:HE2	1.70	0.56
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.41	0.56
64:N8:73:LEU:HD13	64:N8:109:TYR:CE1	2.41	0.56
1:6:235:G:H2'	1:6:236:A:C8	2.40	0.56
1:6:386:G:H2'	1:6:387:A:C8	2.40	0.56
1:6:906:A:H2'	1:6:907:A:C8	2.41	0.56
7:s5:35:GLN:C	7:s5:37:GLN:H	2.14	0.56
7:s5:159:ALA:HB3	7:s5:225:ARG:HB3	1.88	0.56
8:s6:135:PRO:HB2	8:s6:141:ILE:HG12	1.87	0.56
18:c6:39:VAL:HG12	18:c6:41:PRO:HD2	1.86	0.56
36:5:1409:G:N7	85:5:3998:OHX:N6	2.54	0.56
36:5:3267:A:H2'	43:l6:69:PHE:CZ	2.41	0.56
36:5:3276:G:H2'	36:5:3276:G:OP2	2.06	0.56
85:5:3898:OHX:N3	85:5:4036:OHX:N6	2.54	0.56
37:7:112:G:H2'	37:7:113:C:C6	2.41	0.56
41:l4:299:ILE:HG23	54:m8:39:ARG:HB3	1.87	0.56
48:m1:96:PHE:HB3	48:m1:156:LYS:HG3	1.88	0.56
80:m2:34:UNK:O	80:m2:36:UNK:N	2.39	0.56
57:n1:7:TYR:OH	57:n1:54:HIS:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:93:LEU:HD23	59:n3:93:LEU:H	1.69	0.56
77:q1:9:ARG:HH11	77:q1:9:ARG:HB2	1.70	0.56
1:2:614:C:OP2	25:D3:5:LYS:NZ	2.31	0.56
1:2:848:C:H2'	1:2:849:C:C6	2.41	0.56
1:2:1460:A:OP2	35:SM:68:ARG:HD3	2.06	0.56
1:2:1564:U:H2'	1:2:1565:C:C6	2.40	0.56
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	1.88	0.56
8:S6:102:VAL:HG13	8:S6:106:LEU:HD12	1.88	0.56
20:C8:145:ARG:HB2	35:SM:68:ARG:NH2	2.21	0.56
28:D6:79:ILE:HG23	28:D6:84:VAL:HG21	1.88	0.56
36:1:1204:A:N6	36:1:1300:G:O2'	2.35	0.56
36:1:2592:G:H4'	36:1:2594:C:C2	2.41	0.56
39:L2:36:GLU:OE1	39:L2:163:ARG:NH1	2.38	0.56
1:6:75:U:O2'	1:6:76:A:O5'	2.18	0.56
1:6:846:G:H2'	1:6:847:A:C8	2.41	0.56
1:6:1508:U:O4	85:6:2017:OHX:N4	2.39	0.56
9:s7:141:ARG:NH2	9:s7:143:LEU:HD21	2.20	0.56
15:c3:63:ALA:O	15:c3:67:THR:OG1	2.20	0.56
17:c5:29:SER:OG	17:c5:32:ASP:OD2	2.22	0.56
36:5:550:A:H2'	36:5:551:A:C8	2.41	0.56
36:5:3299:A:H61	36:5:3315:G:H1	1.53	0.56
37:7:64:A:H5'	37:7:65:G:H5''	1.87	0.56
40:l3:81:THR:HG23	40:l3:205:VAL:HG21	1.88	0.56
42:l5:294:ALA:O	85:l5:302:OHX:N2	2.39	0.56
45:l8:163:VAL:HG22	45:l8:166:LEU:HD12	1.87	0.56
46:l9:86:TYR:CE2	46:l9:151:VAL:HG22	2.41	0.56
80:m2:16:UNK:N	80:m2:61:UNK:O	2.39	0.56
50:m4:72:LEU:HD23	50:m4:73:PRO:HD2	1.87	0.56
57:n1:124:VAL:HG12	57:n1:125:ALA:H	1.70	0.56
72:o6:56:ARG:O	72:o6:60:LEU:HD22	2.05	0.56
79:q3:49:ARG:HB2	79:q3:55:TRP:CH2	2.41	0.56
81:p0:93:LEU:HD13	81:p0:94:THR:HG23	1.87	0.56
1:2:61:A:H8	1:2:269:G:HO2'	1.54	0.55
1:2:480:G:N2	1:2:509:G:H1'	2.21	0.55
1:2:645:C:H2'	1:2:646:C:H6	1.72	0.55
1:2:858:G:H4'	9:S7:113:PRO:HG3	1.88	0.55
1:2:1541:G:O2'	1:2:1570:A:N6	2.37	0.55
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.70	0.55
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.39	0.55
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.86	0.55
24:D2:41:MET:HG2	24:D2:129:VAL:HG11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.71	0.55
36:1:627:U:H2'	36:1:628:A:C8	2.41	0.55
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.19	0.55
56:N0:74:ASN:HD21	56:N0:144:LEU:HD21	1.71	0.55
67:O1:17:HIS:CG	67:O1:69:TYR:HD1	2.24	0.55
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	2.94	0.55
1:6:1280:C:O2'	22:d0:70:THR:HG23	2.05	0.55
1:6:1793:G:N7	28:d6:34:LYS:NZ	2.54	0.55
3:s1:27:LYS:HD2	3:s1:47:LEU:HD22	1.88	0.55
4:s2:67:GLN:HA	4:s2:70:ASP:HB2	1.88	0.55
5:s3:140:GLY:HA3	5:s3:182:LEU:HD22	1.86	0.55
10:s8:138:ASN:HA	10:s8:141:ARG:HD3	1.88	0.55
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.21	0.55
27:d5:38:HIS:HA	27:d5:70:LYS:HG2	1.87	0.55
34:sR:197:SER:OG	34:sR:217:ASP:N	2.35	0.55
36:5:784:A:C6	54:m8:93:ILE:HG23	2.42	0.55
80:m2:116:UNK:O	80:m2:118:UNK:N	2.39	0.55
49:m3:153:ASP:OD1	49:m3:157:ARG:NH2	2.39	0.55
8:S6:131:LYS:O	60:N4:82:ILE:HA	2.06	0.55
15:C3:99:ARG:O	15:C3:103:GLU:HG2	2.06	0.55
36:1:1278:A:O2'	36:1:1279:C:O5'	2.19	0.55
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.40	0.55
36:1:1333:C:H5'	44:L7:111:ILE:HG23	1.88	0.55
36:1:2534:G:H2'	36:1:2535:A:H8	1.71	0.55
36:1:3082:C:H2'	36:1:3083:G:C8	2.41	0.55
41:L4:362:ASP:OD1	41:L4:362:ASP:N	2.39	0.55
62:N6:115:ARG:O	62:N6:119:ILE:HG13	2.07	0.55
69:O3:75:HIS:HB3	69:O3:80:VAL:HG12	1.89	0.55
1:6:1499:G:OP1	21:c9:122:ARG:NH1	2.39	0.55
5:s3:42:THR:OG1	5:s3:44:THR:O	2.22	0.55
18:c6:55:VAL:HG21	18:c6:105:LEU:HG	1.88	0.55
18:c6:68:ARG:HE	18:c6:68:ARG:C	2.15	0.55
20:c8:63:GLN:HA	20:c8:66:LEU:HG	1.88	0.55
34:sR:171:SER:OG	34:sR:181:TRP:NE1	2.29	0.55
36:5:1847:A:O2'	36:5:1848:G:H5''	2.05	0.55
42:l5:177:GLU:O	42:l5:179:ARG:N	2.38	0.55
60:n4:38:SER:O	60:n4:42:GLN:HG3	2.07	0.55
1:2:851:U:H2'	1:2:852:C:C6	2.41	0.55
6:S4:193:GLY:O	6:S4:210:ILE:HG23	2.06	0.55
7:S5:20:PHE:O	7:S5:21:THR:OG1	2.21	0.55
9:S7:98:ILE:HG13	9:S7:121:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:518:G:O6	85:1:3970:OHX:N6	2.38	0.55
36:1:3111:U:H2'	36:1:3112:G:O4'	2.07	0.55
38:4:122:U:H2'	38:4:123:G:H8	1.72	0.55
48:M1:21:ILE:HG13	48:M1:37:LEU:HD11	1.86	0.55
1:6:751:G:H2'	1:6:752:A:H8	1.71	0.55
1:6:1173:C:H2'	1:6:1174:C:H6	1.71	0.55
8:s6:121:LEU:O	8:s6:123:GLY:N	2.39	0.55
36:5:192:C:H2'	36:5:193:C:C6	2.42	0.55
36:5:1721:U:O4	55:m9:128:LYS:NZ	2.39	0.55
36:5:1940:G:N2	36:5:3362:A:H8	1.99	0.55
36:5:2746:A:H2'	36:5:2747:A:O4'	2.06	0.55
36:5:2936:A:H2'	36:5:2937:G:C8	2.41	0.55
38:8:13:A:O2'	53:m7:120:ASN:HB3	2.06	0.55
42:l5:211:LEU:HD21	42:l5:218:ARG:HG2	1.88	0.55
48:m1:166:LYS:C	48:m1:168:ASP:H	2.14	0.55
53:m7:29:THR:HA	53:m7:32:THR:HG23	1.87	0.55
62:n6:52:ARG:HA	62:n6:70:ILE:HG22	1.88	0.55
1:2:97:C:H2'	1:2:98:U:C6	2.40	0.55
1:2:976:G:N1	1:2:1023:A:O2'	2.37	0.55
1:2:1358:G:H2'	1:2:1359:C:C6	2.41	0.55
2:S0:169:SER:O	2:S0:173:ILE:HG12	2.07	0.55
3:S1:131:ASP:O	3:S1:133:TYR:N	2.39	0.55
11:S9:122:VAL:HG23	11:S9:123:HIS:CD2	2.41	0.55
18:C6:93:HIS:HA	18:C6:97:VAL:HG23	1.88	0.55
36:1:284:A:H4'	36:1:285:A:C2	2.41	0.55
36:1:863:C:OP1	85:1:3743:OHX:N2	2.40	0.55
85:1:3832:OHX:N6	85:1:4009:OHX:N2	2.55	0.55
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	1.88	0.55
45:L8:75:ILE:C	45:L8:77:GLN:H	2.13	0.55
49:M3:71:ALA:HA	49:M3:147:ILE:HD12	1.89	0.55
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.18	0.55
1:6:16:G:H2'	1:6:17:C:C6	2.42	0.55
1:6:461:G:H5''	6:s4:26:CYS:SG	2.46	0.55
1:6:492:A:H1'	1:6:496:G:H1	1.72	0.55
1:6:898:A:N1	1:6:911:U:O2'	2.32	0.55
36:5:129:U:H2'	36:5:130:A:H8	1.69	0.55
36:5:795:G:O2'	36:5:796:U:H5'	2.07	0.55
36:5:901:G:H2'	36:5:902:G:H8	1.70	0.55
36:5:1339:C:OP1	68:o2:61:LYS:NZ	2.34	0.55
36:5:2322:C:OP1	85:5:3996:OHX:N6	2.39	0.55
41:l4:148:ILE:HA	41:l4:149:PRO:C	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:l6:41:ILE:HB	43:l6:85:ILE:HB	1.88	0.55
53:m7:111:LYS:HE2	53:m7:152:GLU:HB3	1.88	0.55
61:n5:86:VAL:HG21	61:n5:95:ILE:HG12	1.89	0.55
1:2:158:U:O2'	1:2:160:C:OP2	2.24	0.55
36:1:73:C:C2	49:M3:59:ARG:HD3	2.41	0.55
36:1:549:U:H2'	36:1:550:A:C8	2.42	0.55
36:1:789:A:H2'	36:1:790:U:H6	1.71	0.55
36:1:799:G:O6	85:1:3841:OHX:N5	2.39	0.55
61:N5:49:LYS:O	61:N5:51:VAL:N	2.35	0.55
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.89	0.55
1:6:373:G:N7	85:6:2150:OHX:N3	2.54	0.55
18:c6:99:GLU:O	18:c6:102:LYS:N	2.38	0.55
28:d6:28:LYS:HG2	28:d6:29:SER:H	1.70	0.55
36:5:284:A:H4'	36:5:285:A:N3	2.22	0.55
36:5:979:U:H1'	36:5:980:A:C4	2.41	0.55
36:5:1560:G:O2'	36:5:1561:G:OP1	2.21	0.55
36:5:3306:U:O2'	36:5:3308:C:OP2	2.17	0.55
42:l5:99:TYR:CD2	42:l5:199:ILE:HG12	2.41	0.55
44:l7:193:PRO:HB2	44:l7:194:HIS:CE1	2.42	0.55
54:m8:165:ILE:HD12	54:m8:166:LEU:H	1.71	0.55
1:2:1353:U:H2'	1:2:1354:G:H8	1.72	0.55
1:2:1595:U:N3	1:2:1600:A:H2	1.99	0.55
3:S1:82:ARG:HH22	3:S1:191:GLU:HG2	1.71	0.55
3:S1:180:THR:O	3:S1:184:LEU:HB2	2.07	0.55
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.42	0.55
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	1.87	0.55
6:S4:117:GLU:O	6:S4:120:SER:OG	2.24	0.55
18:C6:126:PRO:O	18:C6:128:LYS:NZ	2.37	0.55
36:1:817:A:H2'	36:1:920:A:C2	2.41	0.55
38:4:142:C:H5''	51:M5:60:VAL:HG21	1.89	0.55
39:L2:113:VAL:HG12	39:L2:166:ILE:HD13	1.89	0.55
44:L7:25:GLN:N	44:L7:28:ALA:HB3	2.22	0.55
1:6:250:C:H2'	1:6:251:A:C8	2.42	0.55
1:6:852:C:H2'	1:6:853:G:C8	2.42	0.55
1:6:1219:A:N3	12:c0:51:SER:OG	2.40	0.55
1:6:1498:G:H5''	21:c9:72:GLY:HA3	1.89	0.55
1:6:1533:C:H4'	1:6:1539:G:C6	2.41	0.55
3:s1:36:SER:HA	3:s1:41:ARG:HE	1.71	0.55
8:s6:63:MET:HE2	8:s6:106:LEU:HD22	1.89	0.55
10:s8:36:THR:OG1	10:s8:96:LEU:O	2.23	0.55
22:d0:20:ILE:HG22	22:d0:21:LYS:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:d5:47:TYR:CZ	27:d5:51:LEU:HD11	2.41	0.55
29:d7:36:LYS:HB3	29:d7:42:ASN:O	2.06	0.55
36:5:600:G:N2	36:5:603:A:OP2	2.40	0.55
36:5:896:A:H5'	39:l2:183:GLY:HA2	1.88	0.55
36:5:1295:G:OP1	56:n0:84:ARG:HG3	2.07	0.55
75:o9:10:LYS:HA	75:o9:13:MET:HE3	1.89	0.55
1:2:485:A:H2'	1:2:486:G:O4'	2.06	0.55
1:2:539:G:OP2	1:2:539:G:H8	1.89	0.55
1:2:717:C:H2'	1:2:718:U:H5''	1.89	0.55
6:S4:95:THR:HG22	26:D4:16:PRO:HB2	1.87	0.55
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.89	0.55
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.39	0.55
14:C2:29:LYS:HE2	14:C2:100:TRP:CD1	2.41	0.55
36:1:964:G:OP1	85:1:3824:OHX:N2	2.40	0.55
36:1:1340:G:H2'	36:1:1341:U:H6	1.72	0.55
36:1:2402:A:OP2	85:1:3948:OHX:N6	2.39	0.55
36:1:3257:C:H2'	36:1:3258:U:O4'	2.07	0.55
36:1:3335:A:H2'	36:1:3336:A:C8	2.41	0.55
46:L9:7:GLU:OE2	46:L9:54:LYS:NZ	2.38	0.55
53:M7:51:VAL:HG12	53:M7:52:LEU:HD13	1.88	0.55
56:N0:91:TYR:HD1	56:N0:137:ARG:HH11	1.54	0.55
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.07	0.55
74:O8:14:LEU:HA	74:O8:17:ARG:HB2	1.89	0.55
1:6:149:C:OP1	26:d4:121:THR:OG1	2.23	0.55
1:6:1537:C:O2'	1:6:1540:G:O6	2.24	0.55
17:c5:86:VAL:HG22	17:c5:89:MET:HE3	1.88	0.55
28:d6:26:CYS:HB2	28:d6:28:LYS:HB2	1.88	0.55
34:sR:22:SER:OG	34:sR:70:ASP:HA	2.07	0.55
34:sR:84:SER:OG	34:sR:85:TRP:N	2.40	0.55
35:sM:23:LYS:HE3	35:sM:24:GLU:H	1.72	0.55
35:sM:32:SER:OG	35:sM:33:LYS:N	2.40	0.55
36:5:3:U:H3	38:8:156:U:H3	1.54	0.55
36:5:528:U:H2'	36:5:529:A:H8	1.70	0.55
36:5:835:G:O2'	36:5:857:G:N2	2.26	0.55
42:l5:105:ILE:O	42:l5:109:THR:HG23	2.07	0.55
46:l9:20:ILE:HG12	46:l9:25:VAL:HG22	1.88	0.55
64:n8:22:ILE:H	64:n8:22:ILE:HD12	1.71	0.55
1:2:836:U:OP1	85:2:2119:OHX:N2	2.39	0.55
1:2:1480:G:H3'	1:2:1481:C:C6	2.42	0.55
2:S0:144:ILE:HG23	2:S0:158:VAL:HG13	1.88	0.55
4:S2:137:ILE:HG12	4:S2:138:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:84:TRP:HA	20:C8:89:GLN:OE1	2.07	0.55
25:D3:42:PRO:HB3	25:D3:83:VAL:HG21	1.89	0.55
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.39	0.55
36:1:1211:U:H2'	36:1:1212:A:C8	2.42	0.55
36:1:1353:U:H2'	43:L6:9:TRP:HE3	1.72	0.55
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.89	0.55
36:1:2232:A:H2'	36:1:2233:A:C8	2.42	0.55
36:1:2660:G:O2'	36:1:2744:U:O2	2.25	0.55
36:1:2992:U:H1'	53:M7:69:ARG:HH21	1.72	0.55
36:1:3181:C:O2'	52:M6:164:SER:OG	2.25	0.55
40:L3:277:SER:HB3	40:L3:280:HIS:NE2	2.21	0.55
66:O0:9:SER:OG	66:O0:10:ILE:N	2.40	0.55
71:O5:85:THR:O	71:O5:89:ARG:HD3	2.07	0.55
1:6:647:G:N2	1:6:687:G:H1	2.04	0.55
21:c9:141:GLU:C	21:c9:143:ASP:H	2.15	0.55
28:d6:88:SER:H	28:d6:91:ASP:HB2	1.72	0.55
33:e1:82:LYS:O	33:e1:84:VAL:N	2.39	0.55
41:l4:77:VAL:HB	41:l4:86:GLY:H	1.72	0.55
44:l7:229:PHE:C	44:l7:229:PHE:HD1	2.14	0.55
46:l9:19:SER:HB3	50:m4:6:ILE:HB	1.89	0.55
48:m1:109:HIS:CD2	48:m1:114:ILE:HG21	2.42	0.55
51:m5:68:ARG:HA	51:m5:98:LEU:HD21	1.89	0.55
70:o4:8:ARG:HH21	70:o4:31:ARG:HD2	1.71	0.55
79:q3:73:THR:HG22	79:q3:75:ALA:H	1.72	0.55
1:2:802:G:O6	85:2:2013:OHX:N3	2.40	0.55
1:2:939:A:H2'	1:2:940:A:C8	2.41	0.55
1:2:1149:G:H1'	1:2:1765:A:C4	2.42	0.55
1:2:1291:G:H2'	1:2:1292:G:H8	1.71	0.55
15:C3:129:TYR:HB3	15:C3:134:VAL:HG22	1.87	0.55
25:D3:51:GLY:HA2	25:D3:77:ILE:HG13	1.88	0.55
25:D3:134:ALA:HB1	25:D3:140:LYS:HB2	1.89	0.55
36:1:899:U:O4	85:1:3797:OHX:N4	2.40	0.55
36:1:2102:U:H2'	36:1:2103:U:C6	2.42	0.55
36:1:2897:A:H2'	36:1:2899:C:H5''	1.88	0.55
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.42	0.55
66:O0:34:LEU:HD23	66:O0:59:TYR:HB3	1.88	0.55
1:6:771:A:OP1	11:s9:9:SER:OG	2.25	0.55
1:6:1258:U:H4'	12:c0:2:LEU:HD22	1.88	0.55
1:6:1357:A:H2'	1:6:1358:G:H8	1.72	0.55
1:6:1526:A:N1	1:6:1608:U:O2'	2.38	0.55
1:6:1533:C:H4'	1:6:1539:G:N1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:d3:97:ASP:O	25:d3:100:ASP:HB2	2.07	0.55
30:d8:49:ARG:HG2	30:d8:52:ASP:OD1	2.06	0.55
36:5:1815:U:O2'	36:5:1816:A:OP2	2.23	0.55
44:l7:145:ARG:HA	44:l7:185:ILE:HD13	1.88	0.55
47:m0:174:THR:OG1	47:m0:175:ASN:O	2.24	0.55
51:m5:15:GLN:HG2	72:o6:52:PRO:HG2	1.87	0.55
53:m7:108:ASP:HB3	53:m7:111:LYS:HD3	1.89	0.55
58:n2:26:GLY:O	58:n2:28:PHE:N	2.30	0.55
2:S0:112:THR:OG1	2:S0:113:ARG:N	2.40	0.55
12:C0:88:UNK:O	12:C0:90:UNK:N	2.40	0.55
25:D3:42:PRO:O	25:D3:79:ASN:ND2	2.40	0.55
34:SR:63:GLY:HA3	34:SR:90:ARG:HH12	1.71	0.55
34:SR:300:THR:HG23	34:SR:314:GLN:HG3	1.89	0.55
36:1:535:G:O2'	36:1:554:A:N1	2.35	0.55
36:1:1257:C:H42	36:1:1261:G:H22	1.53	0.55
36:1:2567:C:H2'	36:1:2568:C:H5'	1.88	0.55
42:L5:194:LEU:O	42:L5:197:SER:HB3	2.06	0.55
51:M5:84:PRO:HA	51:M5:87:GLN:HG3	1.89	0.55
56:N0:83:SER:OG	56:N0:86:GLY:O	2.18	0.55
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.40	0.55
1:6:272:U:O3'	60:n4:123:ARG:HD3	2.06	0.55
1:6:1163:A:O3'	7:s5:166:ARG:NH2	2.40	0.55
12:c0:21:VAL:HB	12:c0:66:TYR:HB2	1.88	0.55
25:d3:111:GLY:O	25:d3:121:ARG:HD2	2.06	0.55
28:d6:10:ARG:NH1	28:d6:36:ILE:HG13	2.22	0.55
36:5:2360:C:OP1	85:5:4007:OHX:N1	2.40	0.55
36:5:2573:G:N7	85:5:4029:OHX:N6	2.54	0.55
36:5:3047:U:O2'	40:l3:53:MET:HE1	2.07	0.55
36:5:3074:G:O6	85:5:3947:OHX:N4	2.40	0.55
36:5:3285:C:H3'	36:5:3286:G:H5''	1.88	0.55
40:l3:256:HIS:HA	40:l3:257:PRO:C	2.32	0.55
51:m5:190:THR:O	51:m5:194:GLN:HG2	2.07	0.55
59:n3:18:PRO:HA	59:n3:51:ALA:HA	1.88	0.55
1:2:649:U:O2'	1:2:650:U:O5'	2.25	0.54
7:S5:99:MET:O	7:S5:100:ASN:HB2	2.07	0.54
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.41	0.54
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.41	0.54
36:1:784:A:C2	54:M8:93:ILE:HG22	2.42	0.54
36:1:1149:G:C5	85:1:4017:OHX:N6	2.75	0.54
36:1:2828:G:HO2'	47:M0:4:ARG:HH11	1.55	0.54
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:161:GLY:O	47:M0:163:GLN:NE2	2.40	0.54
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.22	0.54
1:6:959:U:H5''	15:c3:15:ALA:O	2.06	0.54
2:s0:63:ILE:HG12	23:d1:36:VAL:HG22	1.88	0.54
3:s1:39:GLU:O	3:s1:41:ARG:HG3	2.06	0.54
5:s3:60:GLY:O	5:s3:62:ASN:N	2.40	0.54
7:s5:222:LYS:HA	7:s5:225:ARG:HH11	1.72	0.54
33:e1:80:ARG:O	33:e1:82:LYS:N	2.39	0.54
36:5:658:G:N2	41:l4:93:MET:HB2	2.23	0.54
36:5:830:A:O2'	36:5:1866:C:H2'	2.07	0.54
36:5:944:C:H4'	68:o2:33:ARG:NH1	2.23	0.54
36:5:2697:A:H2'	36:5:2698:G:H8	1.71	0.54
36:5:3243:A:OP1	52:m6:159:LYS:NZ	2.40	0.54
36:5:3362:A:H2'	36:5:3363:U:O4'	2.08	0.54
38:8:82:U:O2	38:8:87:G:H4'	2.06	0.54
45:l8:81:THR:OG1	45:l8:181:LYS:HB2	2.07	0.54
45:l8:180:VAL:HG11	45:l8:186:LEU:HD21	1.89	0.54
47:m0:86:HIS:HB3	47:m0:139:ARG:CG	2.34	0.54
59:n3:13:ILE:HG12	59:n3:53:SER:HB2	1.89	0.54
81:p0:205:THR:C	81:p0:207:GLU:H	2.15	0.54
1:2:12:U:H2'	1:2:13:C:C6	2.42	0.54
1:2:1157:A:H2'	1:2:1160:A:N7	2.22	0.54
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.22	0.54
9:S7:162:ILE:HA	9:S7:165:LYS:HD2	1.89	0.54
10:S8:162:ALA:HA	36:1:3353:G:C5'	2.37	0.54
14:C2:73:LYS:HZ1	33:E1:108:VAL:HG13	1.72	0.54
31:D9:25:SER:HB3	85:D9:103:OHX:N4	2.23	0.54
36:1:246:U:H2'	36:1:247:C:C6	2.43	0.54
36:1:1355:A:H5'	36:1:1357:G:H1'	1.88	0.54
36:1:2187:G:OP2	85:1:3862:OHX:N5	2.41	0.54
36:1:2207:A:C2'	36:1:2208:A:H5'	2.36	0.54
42:L5:148:ILE:HD11	42:L5:160:PHE:CE1	2.41	0.54
1:6:486:G:H22	1:6:501:U:H3	1.54	0.54
2:s0:205:ARG:NH1	19:c7:81:LYS:O	2.40	0.54
6:s4:126:VAL:HG13	6:s4:158:ASP:O	2.06	0.54
7:s5:72:HIS:ND1	18:c6:79:TYR:OH	2.39	0.54
9:s7:33:GLU:C	9:s7:35:LYS:H	2.15	0.54
16:c4:114:ARG:NH1	28:d6:59:TYR:OH	2.41	0.54
18:c6:18:ALA:HB2	18:c6:69:VAL:HG13	1.88	0.54
36:5:2557:A:OP1	39:l2:69:TYR:OH	2.25	0.54
39:l2:109:GLU:H	39:l2:109:GLU:CD	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:36:HIS:O	41:l4:40:THR:HG23	2.06	0.54
53:m7:31:GLU:CG	53:m7:60:PHE:HA	2.38	0.54
58:n2:49:ASN:O	58:n2:51:GLY:N	2.40	0.54
1:2:260:U:H5'	10:S8:41:LYS:NZ	2.22	0.54
1:2:393:C:H2'	1:2:394:C:C6	2.42	0.54
1:2:577:G:C2	35:SM:99:LYS:HG2	2.42	0.54
1:2:894:U:H2'	1:2:895:G:C8	2.42	0.54
2:S0:200:ASP:HB2	19:C7:85:VAL:HG13	1.89	0.54
5:S3:5:ILE:HG23	5:S3:9:ARG:HH11	1.70	0.54
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.88	0.54
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	1.90	0.54
36:1:2403:G:H5'	36:1:2872:A:N7	2.22	0.54
38:4:52:A:H4'	75:O9:19:GLN:HA	1.89	0.54
39:L2:116:VAL:HG13	39:L2:126:LEU:HB2	1.88	0.54
40:L3:55:THR:O	40:L3:56:ILE:HD12	2.07	0.54
42:L5:289:LYS:O	42:L5:293:LEU:HB2	2.07	0.54
46:L9:84:LYS:HZ3	46:L9:191:LEU:HD13	1.73	0.54
57:N1:12:ARG:HD2	57:N1:13:TYR:CE1	2.42	0.54
62:N6:40:ARG:O	62:N6:44:GLY:N	2.39	0.54
70:O4:81:CYS:O	70:O4:83:ASN:N	2.40	0.54
1:6:753:A:H62	6:s4:187:ARG:HH22	1.54	0.54
1:6:956:C:OP2	15:c3:12:SER:HB3	2.08	0.54
1:6:1383:G:OP1	22:d0:87:HIS:ND1	2.40	0.54
2:s0:63:ILE:HD12	2:s0:158:VAL:HG11	1.87	0.54
7:s5:73:THR:O	7:s5:75:GLY:N	2.37	0.54
33:e1:144:CYS:O	33:e1:146:SER:N	2.40	0.54
36:5:920:A:OP1	36:5:922:U:H5	1.90	0.54
36:5:1313:G:O6	85:5:3999:OHX:N6	2.40	0.54
36:5:1329:U:O2'	36:5:1330:A:OP1	2.24	0.54
36:5:1447:G:N7	53:m7:25:SER:OG	2.39	0.54
36:5:1830:G:H5''	61:n5:92:LYS:HD2	1.89	0.54
36:5:2737:C:H4'	57:n1:68:THR:OG1	2.06	0.54
36:5:3274:A:H3'	36:5:3275:U:C5'	2.37	0.54
37:7:119:U:OP1	42:l5:256:THR:HG23	2.06	0.54
46:l9:166:ARG:NH2	46:l9:168:ARG:HH12	2.06	0.54
47:m0:175:ASN:OD1	47:m0:176:LEU:N	2.40	0.54
49:m3:18:TRP:CD1	49:m3:18:TRP:H	2.26	0.54
60:n4:120:LYS:NZ	60:n4:124:LYS:HE3	2.22	0.54
74:o8:24:THR:HG23	74:o8:44:LYS:HB2	1.89	0.54
79:q3:49:ARG:HB2	79:q3:55:TRP:CZ3	2.42	0.54
1:2:196:G:HO2'	1:2:197:A:H8	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:918:U:H2'	1:2:919:A:C8	2.42	0.54
1:2:1235:C:C2	33:E1:138:ARG:NH2	2.76	0.54
1:2:1597:A:OP1	31:D9:19:ARG:NH2	2.40	0.54
18:C6:38:LEU:C	18:C6:40:GLU:H	2.15	0.54
36:1:1674:G:OP2	85:1:3808:OHX:N2	2.40	0.54
36:1:1675:G:H2'	36:1:1676:A:C8	2.42	0.54
36:1:3096:C:H2'	36:1:3097:C:C6	2.42	0.54
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.43	0.54
53:M7:173:ARG:HA	53:M7:176:ILE:HD12	1.88	0.54
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	1.73	0.54
1:6:822:U:H2'	1:6:823:G:H5''	1.89	0.54
1:6:1521:G:O2'	1:6:1523:G:OP2	2.25	0.54
2:s0:88:LYS:O	2:s0:92:HIS:ND1	2.37	0.54
17:c5:127:ARG:CZ	35:sM:66:ALA:HB2	2.37	0.54
19:c7:33:ARG:NH2	34:sR:109:ASP:OD2	2.38	0.54
19:c7:88:VAL:HG13	19:c7:95:ARG:HD3	1.89	0.54
36:5:279:U:H2'	36:5:280:U:C6	2.43	0.54
41:l4:170:LYS:HG3	41:l4:175:HIS:HB2	1.89	0.54
45:l8:86:THR:O	45:l8:90:THR:OG1	2.23	0.54
68:o2:12:LYS:HD3	68:o2:57:TYR:HA	1.89	0.54
1:2:1367:G:N7	85:2:2068:OHX:N6	2.55	0.54
1:2:1628:U:H2'	1:2:1629:G:C8	2.43	0.54
1:2:1695:G:H21	1:2:1706:C:H41	1.54	0.54
10:S8:117:TYR:CE1	10:S8:150:ALA:HB2	2.43	0.54
30:D8:44:VAL:HG12	30:D8:54:LEU:HD21	1.89	0.54
36:1:2320:A:H2	79:Q3:16:VAL:HG12	1.71	0.54
47:M0:3:ARG:CZ	47:M0:63:GLU:HG3	2.38	0.54
71:O5:31:LEU:HD13	71:O5:47:VAL:HG11	1.89	0.54
1:6:1313:A:O2'	1:6:1315:U:OP1	2.22	0.54
6:s4:43:PRO:HA	6:s4:82:TYR:O	2.08	0.54
12:c0:58:GLN:O	12:c0:65:TYR:N	2.37	0.54
36:5:437:G:N7	85:5:4068:OHX:N6	2.55	0.54
36:5:524:U:OP1	50:m4:77:ARG:NH2	2.41	0.54
40:l3:21:ARG:HD3	40:l3:269:GLN:OE1	2.06	0.54
48:m1:53:THR:HG23	48:m1:60:ARG:HA	1.89	0.54
55:m9:5:ARG:HH11	55:m9:5:ARG:HG3	1.72	0.54
68:o2:40:SER:O	68:o2:44:ARG:HG3	2.08	0.54
81:p0:102:SER:OG	81:p0:103:ASN:N	2.40	0.54
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.32	0.54
2:S0:134:LYS:HG2	2:S0:138:TYR:HE2	1.72	0.54
4:S2:103:VAL:HG23	4:S2:113:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:197:THR:HA	10:S8:200:LYS:HB2	1.90	0.54
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.89	0.54
36:1:994:G:H3'	57:N1:13:TYR:HD2	1.72	0.54
36:1:1492:G:N7	75:O9:2:ALA:HB1	2.23	0.54
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.89	0.54
36:1:2162:U:OP1	39:L2:234:LYS:NZ	2.40	0.54
36:1:2536:A:H2'	36:1:2537:U:C5	2.43	0.54
36:1:3251:U:H2'	36:1:3252:G:C8	2.42	0.54
45:L8:230:LYS:NZ	72:O6:46:GLU:O	2.26	0.54
59:N3:109:MET:HE2	59:N3:132:ASN:HD22	1.72	0.54
1:6:542:A:C8	1:6:543:C:H2'	2.42	0.54
1:6:1208:A:N1	1:6:1455:G:N2	2.53	0.54
1:6:1716:C:O2'	1:6:1717:G:H5''	2.08	0.54
85:6:2023:OHX:N5	85:6:2109:OHX:N3	2.56	0.54
6:s4:181:VAL:HG22	6:s4:227:VAL:HA	1.89	0.54
7:s5:163:SER:HB2	30:d8:48:VAL:HG22	1.90	0.54
11:s9:163:PRO:HB3	11:s9:169:PRO:HA	1.90	0.54
34:sR:95:ALA:C	34:sR:97:GLY:H	2.15	0.54
36:5:1462:A:C6	36:5:1463:U:C4	2.96	0.54
36:5:2569:A:H4'	36:5:2570:U:H5'	1.88	0.54
38:8:135:G:OP2	61:n5:56:ARG:NH2	2.40	0.54
41:l4:304:GLN:O	41:l4:306:THR:N	2.41	0.54
48:m1:16:LYS:HG2	48:m1:130:VAL:HG13	1.88	0.54
52:m6:78:ARG:HG3	52:m6:78:ARG:NH1	2.22	0.54
77:q1:16:LYS:O	77:q1:20:VAL:HG23	2.07	0.54
1:2:734:A:H5''	1:2:735:C:OP1	2.06	0.54
1:2:864:U:C5	29:D7:22:LYS:HG2	2.42	0.54
1:2:894:U:H3	1:2:918:U:H3	1.56	0.54
2:S0:186:GLY:O	2:S0:188:LEU:N	2.40	0.54
4:S2:103:VAL:HG12	4:S2:190:LEU:HD12	1.88	0.54
36:1:270:U:O2'	36:1:318:A:H1'	2.07	0.54
36:1:662:U:OP1	64:N8:8:THR:HG21	2.07	0.54
36:1:986:U:H2'	36:1:987:U:H6	1.73	0.54
36:1:1688:U:H2'	36:1:1689:U:C6	2.43	0.54
36:1:3169:U:O2'	36:1:3170:A:OP1	2.24	0.54
38:4:59:A:O2'	61:N5:61:LYS:NZ	2.41	0.54
40:L3:10:ARG:NH2	40:L3:263:SER:O	2.41	0.54
50:M4:32:LEU:HD11	50:M4:94:TRP:CG	2.42	0.54
50:M4:36:VAL:HG11	50:M4:55:ARG:NH2	2.23	0.54
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.89	0.54
54:M8:96:PHE:CD2	54:M8:97:PRO:HD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:73:U:H2'	1:6:74:U:C6	2.43	0.54
1:6:886:U:H2'	1:6:887:A:H8	1.72	0.54
7:s5:117:THR:HG21	7:s5:194:LEU:HD13	1.90	0.54
13:c1:109:VAL:HG21	13:c1:125:VAL:HG11	1.89	0.54
15:c3:136:PRO:O	15:c3:138:ASN:N	2.41	0.54
36:5:679:U:OP2	85:5:4031:OHX:N5	2.40	0.54
36:5:1454:A:OP1	85:5:4030:OHX:N4	2.41	0.54
36:5:1807:G:C6	36:5:1808:G:N1	2.76	0.54
85:5:3980:OHX:N3	38:8:43:A:OP1	2.40	0.54
38:8:83:C:H4'	38:8:85:G:N3	2.23	0.54
42:l5:258:LYS:O	42:l5:258:LYS:HG2	2.07	0.54
44:l7:208:SER:OG	44:l7:209:ASN:N	2.41	0.54
1:2:130:C:H2'	1:2:131:C:C6	2.43	0.54
1:2:327:U:H4'	13:C1:14:GLN:HE22	1.73	0.54
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.73	0.54
17:C5:14:THR:HB	17:C5:22:LEU:HB2	1.90	0.54
36:1:437:G:H2'	36:1:438:A:O4'	2.08	0.54
36:1:1093:A:O2'	36:1:1094:U:O5'	2.26	0.54
36:1:1535:A:OP2	85:1:3736:OHX:N4	2.41	0.54
36:1:1881:A:H2'	36:1:1882:G:C8	2.40	0.54
36:1:2209:U:O2'	36:1:2210:G:OP1	2.24	0.54
39:L2:79:ASN:O	39:L2:82:VAL:HG13	2.08	0.54
1:6:404:G:H2'	1:6:405:C:C6	2.43	0.54
1:6:901:G:H22	16:c4:54:GLU:CD	2.16	0.54
6:s4:105:VAL:HG11	6:s4:245:LYS:H	1.73	0.54
7:s5:64:VAL:HG22	7:s5:89:ILE:HD11	1.90	0.54
25:d3:51:GLY:HA2	25:d3:77:ILE:HG13	1.88	0.54
36:5:609:G:OP2	41:l4:315:LYS:NZ	2.36	0.54
36:5:748:U:H2'	36:5:749:C:C6	2.43	0.54
36:5:3343:G:H21	36:5:3362:A:H2	1.51	0.54
85:5:3898:OHX:N5	85:5:4036:OHX:N2	2.54	0.54
42:l5:113:LEU:HB3	42:l5:115:LEU:HD22	1.89	0.54
42:l5:257:GLU:C	42:l5:258:LYS:HD3	2.33	0.54
51:m5:153:ASP:OD2	51:m5:155:VAL:HG23	2.08	0.54
61:n5:103:TYR:HB3	61:n5:135:ILE:HD11	1.89	0.54
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.08	0.54
11:S9:38:ASN:HB2	11:S9:41:GLU:HG3	1.90	0.54
22:D0:57:ARG:HG3	22:D0:89:ARG:CZ	2.38	0.54
22:D0:82:TYR:HB3	31:D9:52:PHE:HB3	1.90	0.54
28:D6:43:ASN:HA	28:D6:66:LYS:HA	1.89	0.54
34:SR:40:LYS:HA	34:SR:68:VAL:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:131:ILE:O	34:SR:144:LEU:HB2	2.08	0.54
36:1:955:U:H2'	36:1:956:U:C6	2.43	0.54
36:1:1785:U:H2'	36:1:1786:G:C8	2.43	0.54
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.20	0.54
54:M8:170:ARG:O	54:M8:171:LYS:HB2	2.07	0.54
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	1.89	0.54
71:O5:86:ARG:HA	71:O5:89:ARG:NH1	2.23	0.54
1:6:454:U:H5''	1:6:455:C:H5	1.72	0.54
1:6:1394:G:OP1	34:sR:282:SER:N	2.41	0.54
34:sR:82:SER:OG	34:sR:92:TRP:NE1	2.36	0.54
34:sR:133:VAL:HB	34:sR:141:LEU:HB2	1.90	0.54
36:5:999:G:C6	36:5:1000:C:N4	2.76	0.54
36:5:1614:C:H2'	36:5:1615:C:H6	1.73	0.54
36:5:2732:G:OP2	85:5:4052:OHX:N1	2.41	0.54
51:m5:48:ALA:C	51:m5:53:TYR:HB3	2.33	0.54
1:2:472:U:H5''	11:S9:11:THR:HG23	1.90	0.54
1:2:1045:C:H42	1:2:1073:G:H1	1.55	0.54
1:2:1490:C:H4'	1:2:1491:U:OP1	2.06	0.54
2:S0:125:ASP:O	2:S0:128:SER:N	2.41	0.54
3:S1:36:SER:HB2	3:S1:231:LEU:HD13	1.89	0.54
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.40	0.54
12:C0:23:ALA:HB3	12:C0:64:TYR:HB2	1.89	0.54
26:D4:21:LYS:HB2	26:D4:75:VAL:HG13	1.90	0.54
34:SR:74:THR:HG23	34:SR:79:TYR:HB2	1.89	0.54
36:1:256:G:H4'	71:O5:111:PHE:HZ	1.73	0.54
36:1:1345:G:N7	85:1:3820:OHX:N4	2.55	0.54
36:1:2356:A:N6	36:1:2983:C:H5	2.02	0.54
40:L3:360:ASP:OD1	40:L3:361:THR:N	2.41	0.54
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	2.08	0.54
1:6:687:G:H5''	24:d2:119:LYS:HG2	1.90	0.54
1:6:1243:G:H5''	1:6:1243:G:N3	2.23	0.54
1:6:1688:U:H3	1:6:1713:G:H1	1.55	0.54
17:c5:18:ARG:NH2	17:c5:38:PRO:HG3	2.23	0.54
19:c7:41:ILE:HD13	19:c7:50:ILE:HD12	1.90	0.54
36:5:273:A:N7	85:5:3908:OHX:N3	2.56	0.54
36:5:1232:C:C5	36:5:1261:G:H2'	2.43	0.54
36:5:1887:A:OP1	85:5:3953:OHX:N6	2.41	0.54
36:5:2656:A:O2'	85:5:3751:OHX:N4	2.41	0.54
36:5:2975:U:OP1	85:5:3930:OHX:N3	2.41	0.54
36:5:3269:U:H4'	36:5:3270:U:O5'	2.08	0.54
67:o1:20:LEU:HD22	67:o1:31:ARG:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:o4:81:CYS:SG	70:o4:84:CYS:SG	3.06	0.54
1:2:153:G:H2'	1:2:154:G:C8	2.43	0.53
13:C1:6:THR:O	13:C1:8:GLN:N	2.33	0.53
36:1:114:A:OP1	51:M5:54:LYS:NZ	2.34	0.53
36:1:1951:C:N4	36:1:2095:G:H1	1.97	0.53
36:1:2971:A:H3'	36:1:2971:A:N3	2.22	0.53
36:1:3231:U:H2'	36:1:3232:G:H8	1.73	0.53
47:M0:193:ASP:OD1	47:M0:198:LYS:HE3	2.08	0.53
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.08	0.53
54:M8:178:ARG:HE	64:N8:50:PRO:HG2	1.74	0.53
56:N0:5:LYS:HB2	56:N0:7:TYR:CE2	2.43	0.53
1:6:180:A:H2'	1:6:181:A:O4'	2.08	0.53
1:6:1018:U:H2'	1:6:1019:A:H8	1.73	0.53
1:6:1600:A:H4'	1:6:1601:G:OP1	2.07	0.53
12:c0:56:LYS:N	12:c0:67:THR:O	2.33	0.53
33:e1:90:LYS:HB2	33:e1:93:HIS:CE1	2.43	0.53
36:5:335:G:OP2	62:n6:14:LYS:HE3	2.07	0.53
36:5:1239:C:N3	36:5:1249:G:N2	2.56	0.53
36:5:2985:C:H2'	36:5:2986:U:H6	1.73	0.53
38:8:68:G:O6	85:8:221:OHX:N6	2.41	0.53
39:l2:68:LYS:HG3	39:l2:69:TYR:N	2.22	0.53
43:l6:50:LYS:HG2	43:l6:74:VAL:HG21	1.90	0.53
80:m2:15:UNK:HA	80:m2:62:UNK:HA	1.90	0.53
49:m3:25:HIS:CD2	51:m5:200:TRP:CE2	2.96	0.53
49:m3:47:ALA:HB1	49:m3:48:PRO:HD2	1.91	0.53
64:n8:6:THR:HG23	64:n8:8:THR:H	1.73	0.53
1:2:181:A:H2'	1:2:182:A:O4'	2.08	0.53
1:2:789:A:O2'	6:S4:106:LYS:NZ	2.37	0.53
2:S0:133:ILE:O	2:S0:137:SER:OG	2.26	0.53
7:S5:29:ILE:HG22	7:S5:34:GLN:HG3	1.90	0.53
10:S8:34:ALA:HB2	10:S8:56:ARG:HD3	1.90	0.53
24:D2:89:TRP:O	24:D2:93:LEU:HD23	2.08	0.53
36:1:1887:A:OP2	85:1:3752:OHX:N4	2.41	0.53
36:1:2314:U:O2'	36:1:2315:G:OP1	2.26	0.53
36:1:3358:U:H2'	36:1:3359:A:O4'	2.09	0.53
41:L4:188:ARG:O	41:L4:193:LYS:HE3	2.08	0.53
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.41	0.53
42:L5:85:ARG:HH12	42:L5:254:LYS:H	1.54	0.53
45:L8:121:SER:O	45:L8:123:GLN:N	2.39	0.53
50:M4:73:PRO:HG2	50:M4:76:ALA:HB2	1.88	0.53
51:M5:110:ALA:HB1	51:M5:113:LEU:HD23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:703:G:H2'	1:6:704:C:C6	2.44	0.53
35:sM:58:GLU:O	35:sM:62:ARG:HB2	2.08	0.53
36:5:2440:G:O2'	36:5:2441:A:OP1	2.25	0.53
36:5:2897:A:H2'	36:5:2899:C:H5''	1.88	0.53
85:5:3822:OHX:N6	85:5:4035:OHX:N5	2.56	0.53
37:7:3:U:H2'	37:7:4:U:C6	2.42	0.53
45:l8:108:ARG:O	45:l8:112:GLU:N	2.28	0.53
1:2:136:C:H4'	1:2:137:U:OP1	2.09	0.53
1:2:545:A:H4'	1:2:546:U:OP1	2.09	0.53
1:2:553:G:OP2	1:2:554:C:O2'	2.19	0.53
1:2:856:A:N6	9:S7:96:ARG:HB3	2.23	0.53
1:2:1657:U:N3	85:2:2048:OHX:N2	2.55	0.53
6:S4:121:TYR:OH	6:S4:235:TYR:O	2.17	0.53
35:SM:84:LYS:C	35:SM:86:ASN:H	2.16	0.53
36:1:1389:G:OP2	85:1:3832:OHX:N4	2.40	0.53
36:1:2705:A:OP2	85:1:3730:OHX:N1	2.41	0.53
41:L4:152:VAL:HG22	41:L4:172:VAL:HG21	1.90	0.53
48:M1:164:LYS:HE3	48:M1:171:VAL:HB	1.90	0.53
49:M3:124:ILE:HD11	49:M3:126:PHE:CZ	2.43	0.53
53:M7:178:ALA:HA	53:M7:181:ARG:HH21	1.73	0.53
63:N7:47:GLU:OE1	63:N7:69:LYS:NZ	2.30	0.53
77:Q1:22:ALA:C	77:Q1:24:SER:H	2.15	0.53
1:6:518:A:O2'	1:6:534:A:N6	2.40	0.53
1:6:1003:A:H4'	1:6:1004:U:O5'	2.09	0.53
1:6:1078:C:H2'	1:6:1079:U:H6	1.74	0.53
1:6:1330:G:H21	19:c7:8:THR:HG21	1.72	0.53
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.89	0.53
36:5:20:A:OP2	71:o5:90:ARG:NH1	2.41	0.53
36:5:595:G:H1	36:5:609:G:H5''	1.74	0.53
36:5:2993:G:H2'	36:5:3142:A:N6	2.23	0.53
45:l8:91:PHE:CZ	45:l8:185:ARG:HB3	2.43	0.53
47:m0:29:SER:HB2	47:m0:125:LEU:HD12	1.90	0.53
51:m5:73:ARG:HG2	51:m5:75:VAL:HG22	1.89	0.53
60:n4:49:ILE:O	60:n4:52:THR:OG1	2.26	0.53
63:n7:25:ILE:HG23	63:n7:41:ALA:HB1	1.88	0.53
74:o8:5:ILE:HG22	74:o8:54:LEU:HB2	1.89	0.53
1:2:452:A:H3'	1:2:453:U:C6	2.43	0.53
1:2:986:G:H2'	1:2:987:G:O4'	2.08	0.53
1:2:1537:C:O2'	1:2:1540:G:O6	2.26	0.53
8:S6:58:LYS:HG2	8:S6:105:ASP:O	2.08	0.53
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.09	0.53
25:D3:130:VAL:O	25:D3:131:SER:HB3	2.08	0.53
28:D6:37:LYS:C	28:D6:38:ARG:HD2	2.34	0.53
34:SR:49:GLY:O	34:SR:51:ASP:N	2.39	0.53
36:1:561:C:H2'	36:1:562:C:H6	1.71	0.53
36:1:651:G:O2'	36:1:1435:A:OP1	2.24	0.53
36:1:2247:G:OP1	85:1:3924:OHX:N6	2.42	0.53
36:1:2666:C:OP2	36:1:2687:G:N1	2.30	0.53
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.33	0.53
46:L9:189:GLU:O	46:L9:191:LEU:N	2.41	0.53
62:N6:112:ASP:HB2	62:N6:115:ARG:H	1.73	0.53
1:6:336:G:OP2	85:6:2117:OHX:N4	2.42	0.53
1:6:1776:A:H2'	1:6:1777:G:C8	2.43	0.53
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.44	0.53
36:5:47:C:OP2	36:5:48:A:O2'	2.16	0.53
36:5:314:U:H2'	36:5:315:C:C6	2.43	0.53
36:5:408:A:N6	38:8:15:G:H1'	2.23	0.53
36:5:1650:G:N7	85:5:4018:OHX:N3	2.57	0.53
36:5:1863:G:N1	36:5:1866:C:OP2	2.36	0.53
36:5:2537:U:O2	36:5:2543:U:N3	2.41	0.53
36:5:2896:A:H5'	36:5:2896:A:H8	1.73	0.53
85:5:3898:OHX:N5	85:5:4036:OHX:N6	2.56	0.53
37:7:114:U:H2'	37:7:115:G:H8	1.73	0.53
40:l3:81:THR:HG22	40:l3:321:PHE:CA	2.34	0.53
42:l5:211:LEU:O	42:l5:215:ASP:N	2.37	0.53
45:l8:161:GLU:OE1	51:m5:26:ARG:NH1	2.41	0.53
48:m1:17:LEU:HB3	48:m1:76:ALA:HB1	1.90	0.53
51:m5:53:TYR:HB2	51:m5:133:ILE:HG21	1.89	0.53
58:n2:34:ALA:HA	58:n2:37:LEU:HB2	1.91	0.53
68:o2:24:ARG:HG2	68:o2:25:TYR:CZ	2.43	0.53
1:2:733:A:H4'	1:2:734:A:C5	2.43	0.53
1:2:1079:U:H2'	1:2:1080:U:C6	2.43	0.53
1:2:1619:C:H2'	1:2:1620:C:H6	1.73	0.53
9:S7:62:VAL:HB	9:S7:94:ALA:HA	1.90	0.53
11:S9:39:LYS:HB3	11:S9:43:TYR:CZ	2.43	0.53
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.91	0.53
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	1.89	0.53
36:1:718:G:H8	36:1:718:G:OP2	1.91	0.53
36:1:979:U:C2	36:1:980:A:C4	2.96	0.53
36:1:1103:A:C8	44:L7:158:LYS:HD3	2.43	0.53
39:L2:204:MET:CE	39:L2:209:HIS:HB2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:186:LEU:HA	45:L8:189:LEU:HD23	1.89	0.53
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.09	0.53
1:6:1714:A:H2'	1:6:1715:G:O4'	2.09	0.53
5:s3:34:TYR:HE2	5:s3:37:VAL:HG13	1.73	0.53
13:c1:77:SER:HB3	13:c1:85:VAL:HB	1.89	0.53
36:5:198:A:N3	36:5:218:G:O2'	2.42	0.53
36:5:266:A:OP1	51:m5:5:LYS:NZ	2.34	0.53
36:5:917:A:OP2	85:5:4054:OHX:N3	2.42	0.53
36:5:1661:G:H2'	36:5:1662:G:C8	2.43	0.53
36:5:1752:A:OP2	85:5:3922:OHX:N6	2.42	0.53
36:5:1796:G:O6	85:5:4057:OHX:N5	2.41	0.53
36:5:2130:G:OP2	85:5:3840:OHX:N1	2.41	0.53
66:o0:9:SER:OG	66:o0:10:ILE:N	2.41	0.53
1:2:328:A:N3	10:S8:86:SER:OG	2.35	0.53
1:2:618:U:OP1	1:2:1030:A:O2'	2.24	0.53
1:2:788:A:OP2	6:S4:108:ARG:NH1	2.41	0.53
1:2:1229:G:O2'	1:2:1255:G:N2	2.42	0.53
14:C2:55:GLY:N	35:SM:172:UNK:O	2.29	0.53
28:D6:41:ILE:HD13	28:D6:41:ILE:H	1.74	0.53
36:1:180:C:H2'	36:1:181:U:C6	2.43	0.53
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.40	0.53
36:1:2655:U:H4'	36:1:2656:A:O4'	2.08	0.53
36:1:3214:U:OP2	50:M4:128:ARG:NH2	2.35	0.53
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.91	0.53
46:L9:7:GLU:OE1	46:L9:54:LYS:HD2	2.09	0.53
1:6:1783:C:H2'	1:6:1784:C:C6	2.43	0.53
6:s4:160:VAL:HG13	6:s4:169:ILE:HG23	1.90	0.53
10:s8:32:GLN:HG2	10:s8:33:PRO:HD2	1.89	0.53
36:5:166:C:H2'	36:5:167:U:H6	1.73	0.53
36:5:1063:G:H2'	36:5:1097:G:N2	2.24	0.53
36:5:3295:A:H2'	36:5:3296:A:C8	2.43	0.53
41:l4:142:VAL:HB	41:l4:145:ILE:HD13	1.89	0.53
41:l4:341:SER:O	41:l4:342:LYS:HB3	2.09	0.53
47:m0:194:GLY:O	47:m0:196:PHE:N	2.38	0.53
57:n1:46:GLY:HA2	57:n1:52:MET:HE3	1.91	0.53
61:n5:110:VAL:HG22	61:n5:124:VAL:HG13	1.91	0.53
1:2:487:G:H3'	1:2:488:G:H5''	1.90	0.53
1:2:992:A:C2	1:2:1012:U:N3	2.75	0.53
2:S0:120:LEU:HD11	2:S0:144:ILE:HG13	1.89	0.53
14:C2:66:VAL:HG11	14:C2:71:ILE:HD13	1.90	0.53
21:C9:57:ARG:NH2	21:C9:80:TYR:HB3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.06	0.53
36:1:420:G:O2'	36:1:2384:A:N3	2.35	0.53
36:1:1412:G:OP1	68:O2:105:ARG:NH2	2.41	0.53
36:1:1554:U:C4	36:1:1582:C:H2'	2.44	0.53
36:1:1947:G:H1	36:1:2101:C:H42	1.57	0.53
36:1:2960:C:H2'	36:1:2961:G:C8	2.43	0.53
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.89	0.53
1:6:219:A:H2'	1:6:831:U:O2	2.08	0.53
1:6:486:G:O6	1:6:488:G:N2	2.37	0.53
1:6:1118:G:N7	85:6:2138:OHX:N2	2.56	0.53
1:6:1357:A:H2'	1:6:1358:G:C8	2.44	0.53
1:6:1369:U:OP2	21:c9:69:LYS:NZ	2.39	0.53
2:s0:80:THR:O	2:s0:204:TYR:OH	2.21	0.53
4:s2:56:ILE:HG23	4:s2:61:LEU:HB2	1.91	0.53
6:s4:23:LEU:O	6:s4:24:SER:OG	2.26	0.53
7:s5:62:VAL:HG13	7:s5:89:ILE:HG12	1.90	0.53
10:s8:137:LYS:O	10:s8:141:ARG:N	2.39	0.53
24:d2:42:GLN:NE2	24:d2:48:GLY:O	2.26	0.53
34:sR:197:SER:HB2	34:sR:216:LYS:HB3	1.90	0.53
36:5:92:G:OP1	78:q2:46:LYS:HE2	2.09	0.53
36:5:956:U:H2'	36:5:957:C:C6	2.44	0.53
36:5:1615:C:H2'	36:5:1616:U:C6	2.44	0.53
36:5:1915:A:H2'	36:5:1916:U:C6	2.44	0.53
36:5:2095:G:H2'	36:5:2096:A:H8	1.74	0.53
36:5:3050:U:O2'	60:n4:16:GLY:O	2.26	0.53
49:m3:89:TYR:CE1	49:m3:93:ILE:HD11	2.44	0.53
52:m6:182:ASN:O	52:m6:185:ALA:N	2.38	0.53
61:n5:42:ARG:O	61:n5:44:PRO:HD3	2.08	0.53
66:o0:74:ASN:OD1	66:o0:74:ASN:N	2.40	0.53
68:o2:16:LYS:HD3	68:o2:18:LYS:HE2	1.91	0.53
79:q3:35:ALA:HB3	79:q3:37:TYR:CE2	2.44	0.53
1:2:274:G:H3'	1:2:275:C:C6	2.43	0.53
1:2:1546:G:OP1	20:C8:123:ARG:HD2	2.09	0.53
36:1:124:U:H2'	36:1:125:C:H6	1.73	0.53
36:1:239:G:N7	85:1:3894:OHX:N4	2.57	0.53
36:1:263:C:H2'	36:1:264:G:O4'	2.09	0.53
36:1:708:G:N2	36:1:711:A:OP2	2.41	0.53
36:1:776:U:C5	36:1:2719:U:O2	2.62	0.53
36:1:786:A:H4'	36:1:787:G:H5'	1.90	0.53
36:1:1785:U:H2'	36:1:1786:G:H8	1.73	0.53
36:1:2107:A:H2	36:1:3344:A:C8	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2258:U:OP1	85:1:3793:OHX:N5	2.42	0.53
36:1:2984:C:H2'	36:1:2985:C:H6	1.74	0.53
36:1:3116:G:OP1	36:1:3116:G:N2	2.41	0.53
51:M5:110:ALA:HB1	51:M5:113:LEU:HB2	1.91	0.53
53:M7:168:LEU:HD13	53:M7:172:GLN:HB3	1.89	0.53
69:O3:72:THR:HG23	69:O3:83:ALA:HA	1.90	0.53
73:O7:28:HIS:HB3	73:O7:31:LYS:HB2	1.90	0.53
1:6:1081:A:H1'	1:6:1082:C:H5	1.74	0.53
1:6:1553:G:N7	17:c5:43:ARG:NH1	2.57	0.53
85:6:2023:OHX:N5	85:6:2109:OHX:N6	2.56	0.53
5:s3:68:GLU:OE2	12:c0:67:THR:OG1	2.27	0.53
34:sR:37:SER:OG	34:sR:38:ARG:N	2.42	0.53
36:5:409:A:OP2	85:5:3944:OHX:N3	2.42	0.53
55:m9:172:ARG:O	55:m9:176:ARG:HG2	2.08	0.53
66:o0:75:ASN:HA	66:o0:86:ARG:HB2	1.91	0.53
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.38	0.53
6:S4:104:ASP:HB3	6:S4:106:LYS:H	1.74	0.53
6:S4:159:THR:HG22	6:S4:173:ILE:HB	1.91	0.53
24:D2:15:ASN:ND2	24:D2:72:CYS:O	2.41	0.53
36:1:29:C:H4'	36:1:62:A:H4'	1.90	0.53
36:1:789:A:H2'	36:1:790:U:C6	2.44	0.53
36:1:1103:A:N6	36:1:1363:A:H1'	2.23	0.53
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.44	0.53
47:M0:24:ARG:HH11	47:M0:24:ARG:HG3	1.74	0.53
47:M0:31:ILE:HA	47:M0:66:GLU:OE1	2.09	0.53
47:M0:80:SER:O	47:M0:84:ALA:HB2	2.08	0.53
47:M0:171:TRP:O	47:M0:174:THR:HG22	2.09	0.53
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.40	0.53
54:M8:40:THR:C	54:M8:42:ALA:H	2.17	0.53
63:N7:62:VAL:O	63:N7:66:THR:OG1	2.17	0.53
1:6:1041:G:H2'	1:6:1042:G:C8	2.44	0.53
2:s0:66:ALA:HB2	23:d1:37:ALA:HB2	1.90	0.53
15:c3:33:VAL:HG11	15:c3:66:ILE:HD11	1.90	0.53
18:c6:114:ARG:O	18:c6:115:THR:HB	2.08	0.53
20:c8:35:ILE:HB	20:c8:38:VAL:HG22	1.90	0.53
21:c9:52:GLY:HA2	21:c9:55:TYR:HD2	1.73	0.53
24:d2:73:GLY:HA3	24:d2:128:PHE:CZ	2.44	0.53
35:sM:121:UNK:O	35:sM:123:UNK:N	2.42	0.53
36:5:2964:G:N7	85:5:3826:OHX:N6	2.57	0.53
36:5:2967:A:H5''	39:12:213:GLY:CA	2.39	0.53
36:5:3275:U:O2'	36:5:3276:G:OP1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:l3:49:TYR:OH	40:l3:177:HIS:ND1	2.33	0.53
41:l4:74:ILE:HD11	41:l4:93:MET:HE3	1.91	0.53
46:l9:4:ILE:HG23	56:n0:142:GLN:CD	2.33	0.53
49:m3:109:PHE:O	49:m3:113:VAL:HG23	2.09	0.53
78:q2:8:ARG:HB2	78:q2:8:ARG:HH11	1.74	0.53
1:2:95:G:O2'	1:2:460:A:O2'	2.20	0.53
1:2:1234:A:H4'	33:E1:146:SER:HB3	1.90	0.53
2:S0:177:LEU:O	2:S0:181:VAL:HG13	2.09	0.53
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.90	0.53
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.89	0.53
6:S4:34:GLY:HA3	6:S4:83:PRO:HG3	1.89	0.53
10:S8:26:LYS:O	10:S8:29:LEU:HB3	2.09	0.53
13:C1:99:ARG:HD3	25:D3:8:GLY:O	2.09	0.53
16:C4:115:ILE:HD11	28:D6:44:ILE:HD13	1.90	0.53
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.89	0.53
36:1:1307:G:OP1	52:M6:59:ARG:NH1	2.41	0.53
36:1:1752:A:OP2	85:1:3907:OHX:N3	2.42	0.53
36:1:2947:G:OP2	36:1:2947:G:H4'	2.09	0.53
36:1:3000:A:H2'	36:1:3001:C:C6	2.44	0.53
36:1:3066:U:H2'	36:1:3067:C:C6	2.44	0.53
79:Q3:38:ASP:HA	79:Q3:45:LYS:HA	1.91	0.53
1:6:407:A:H2'	1:6:408:C:C6	2.43	0.53
1:6:584:C:H1'	32:e0:18:THR:HG21	1.90	0.53
1:6:984:G:H2'	1:6:985:G:O4'	2.09	0.53
1:6:1119:G:O6	85:6:2138:OHX:N5	2.42	0.53
36:5:873:C:H5''	36:5:874:U:O5'	2.09	0.53
36:5:1481:A:O2'	36:5:1858:A:C2	2.60	0.53
36:5:3302:U:H3	36:5:3312:U:H3	1.55	0.53
36:5:3358:U:H2'	36:5:3359:A:C8	2.44	0.53
85:5:3854:OHX:N4	85:5:4037:OHX:N2	2.57	0.53
85:5:3898:OHX:N1	85:5:4036:OHX:N4	2.57	0.53
41:l4:259:ASP:HB3	41:l4:267:VAL:HG11	1.91	0.53
49:m3:166:ALA:N	64:n8:135:GLU:OE2	2.42	0.53
1:2:246:G:H1'	13:C1:40:LEU:HD13	1.91	0.52
1:2:730:G:O6	85:2:2114:OHX:N4	2.42	0.52
1:2:1592:A:H2'	1:2:1593:A:C8	2.44	0.52
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	1.91	0.52
20:C8:90:ASN:O	20:C8:95:GLY:HA2	2.10	0.52
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.74	0.52
25:D3:53:VAL:HG23	25:D3:100:ASP:O	2.08	0.52
29:D7:56:CYS:HB3	29:D7:61:THR:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1145:G:OP1	68:O2:44:ARG:NH1	2.41	0.52
36:1:1230:G:H1	36:1:1279:C:N4	2.06	0.52
36:1:1919:G:N7	85:1:3874:OHX:N5	2.56	0.52
41:L4:111:VAL:HG12	41:L4:112:LYS:H	1.75	0.52
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.44	0.52
1:6:219:A:C6	1:6:843:U:H1'	2.43	0.52
1:6:1537:C:N3	85:6:2121:OHX:N6	2.57	0.52
8:s6:176:GLN:HG3	8:s6:177:ARG:H	1.74	0.52
11:s9:53:ARG:O	11:s9:57:ARG:HB2	2.09	0.52
20:c8:54:LEU:C	20:c8:56:LYS:H	2.17	0.52
36:5:1155:C:O2'	36:5:1197:A:N1	2.32	0.52
36:5:2837:A:H8	36:5:2837:A:OP2	1.91	0.52
36:5:2988:C:P	52:m6:68:ARG:NH1	2.82	0.52
36:5:3113:A:OP2	85:5:3853:OHX:N4	2.42	0.52
50:m4:47:ASP:CG	50:m4:55:ARG:HB2	2.33	0.52
56:n0:11:GLY:HA2	56:n0:59:VAL:HG23	1.90	0.52
65:n9:23:LYS:HB3	65:n9:24:PRO:CD	2.39	0.52
66:o0:99:ASP:O	66:o0:101:LEU:N	2.42	0.52
1:2:763:G:OP2	11:S9:79:ARG:NH1	2.42	0.52
25:D3:95:PHE:O	25:D3:142:LYS:NZ	2.30	0.52
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.08	0.52
36:1:317:A:OP2	72:O6:30:LYS:NZ	2.36	0.52
36:1:564:G:H2'	36:1:565:U:C6	2.44	0.52
36:1:929:A:H2'	36:1:930:U:H6	1.74	0.52
36:1:1029:G:H2'	36:1:1030:A:C8	2.44	0.52
36:1:1069:C:H2'	36:1:1070:U:C6	2.44	0.52
38:4:78:G:H2'	38:4:79:A:C8	2.45	0.52
42:L5:34:LYS:O	42:L5:38:THR:HG23	2.09	0.52
49:M3:157:ARG:HG2	49:M3:158:ALA:N	2.24	0.52
56:N0:87:THR:O	56:N0:88:HIS:ND1	2.41	0.52
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.15	0.52
1:6:463:U:H2'	1:6:464:A:C8	2.44	0.52
1:6:523:G:H5'	26:d4:60:PHE:O	2.09	0.52
1:6:625:C:H2'	1:6:626:U:C6	2.44	0.52
1:6:914:G:H8	1:6:914:G:OP2	1.92	0.52
1:6:1584:G:H5''	18:c6:122:ARG:HB3	1.91	0.52
7:s5:92:ARG:HG2	7:s5:92:ARG:HH11	1.73	0.52
9:s7:89:HIS:CD2	9:s7:165:LYS:HG2	2.45	0.52
15:c3:65:VAL:C	15:c3:67:THR:H	2.17	0.52
20:c8:23:ASP:OD1	20:c8:24:GLY:N	2.41	0.52
29:d7:63:LEU:O	29:d7:74:SER:N	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3877:OHX:N3	85:5:3923:OHX:N4	2.57	0.52
41:l4:39:PHE:CD2	41:l4:242:ALA:HB2	2.43	0.52
55:m9:15:VAL:HG11	55:m9:52:LYS:HB2	1.91	0.52
59:n3:19:VAL:HG13	59:n3:37:ILE:HA	1.91	0.52
1:2:372:G:H1'	1:2:612:U:O2	2.10	0.52
1:2:701:U:H3	1:2:737:A:N6	1.96	0.52
1:2:876:G:H1'	1:2:944:A:O4'	2.09	0.52
1:2:1222:C:H42	1:2:1261:G:H1	1.57	0.52
1:2:1654:G:O6	85:2:2045:OHX:N6	2.42	0.52
4:S2:140:ARG:HD3	4:S2:222:TYR:CE1	2.45	0.52
9:S7:29:ASN:O	9:S7:30:SER:OG	2.26	0.52
22:D0:67:THR:HG21	31:D9:40:ARG:HB2	1.91	0.52
36:1:860:G:C6	39:L2:181:LYS:HB2	2.45	0.52
36:1:3118:C:O2'	76:Q0:106:ARG:NH2	2.42	0.52
85:1:3836:OHX:N5	85:1:4008:OHX:N2	2.58	0.52
41:L4:181:VAL:O	41:L4:182:LEU:HB2	2.10	0.52
45:L8:130:TYR:CD1	45:L8:202:GLU:HB3	2.44	0.52
46:L9:137:SER:HB3	46:L9:143:GLU:HB3	1.91	0.52
68:O2:26:HIS:O	68:O2:28:VAL:N	2.42	0.52
70:O4:84:CYS:O	70:O4:88:ARG:HG2	2.09	0.52
1:6:25:C:OP2	1:6:25:C:H4'	2.08	0.52
1:6:881:A:OP2	85:6:2072:OHX:N5	2.42	0.52
1:6:1614:A:C6	1:6:1615:C:N4	2.78	0.52
10:s8:110:ARG:NH2	36:5:3354:U:O4	2.42	0.52
13:c1:21:ASN:HD22	13:c1:31:THR:HA	1.73	0.52
36:5:982:C:H42	36:5:1101:G:H1	1.57	0.52
85:5:3898:OHX:N3	85:5:4036:OHX:N4	2.56	0.52
78:q2:48:SER:O	85:q2:502:OHX:N3	2.41	0.52
3:S1:171:ILE:HD12	3:S1:197:ILE:HD13	1.90	0.52
4:S2:144:TRP:CZ2	4:S2:173:PRO:HG3	2.44	0.52
18:C6:78:VAL:O	18:C6:81:ILE:HG12	2.10	0.52
19:C7:50:ILE:O	19:C7:54:THR:OG1	2.24	0.52
36:1:373:A:N1	36:1:394:G:H4'	2.25	0.52
36:1:980:A:H2'	36:1:981:U:N1	2.24	0.52
37:3:79:A:C2	37:3:102:A:C4	2.98	0.52
41:L4:42:VAL:HG12	41:L4:236:LEU:HD21	1.91	0.52
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.24	0.52
51:M5:143:ARG:HE	71:O5:92:LEU:CD2	2.21	0.52
66:O0:98:SER:OG	66:O0:99:ASP:N	2.41	0.52
1:6:9:U:O4	85:6:2108:OHX:N3	2.41	0.52
17:c5:130:ARG:H	35:sM:74:LYS:HD3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:89:TRP:O	24:d2:93:LEU:HD23	2.10	0.52
26:d4:47:VAL:HG13	26:d4:48:TYR:CD2	2.45	0.52
32:e0:14:VAL:HA	32:e0:17:GLN:HG2	1.90	0.52
36:5:407:A:O2'	36:5:1397:C:OP1	2.28	0.52
36:5:1070:U:O4	85:5:3950:OHX:N6	2.43	0.52
36:5:1284:C:O2'	36:5:1285:G:H5'	2.10	0.52
36:5:1860:G:H1'	55:m9:58:HIS:HE1	1.73	0.52
36:5:2663:G:H2'	36:5:2664:C:O4'	2.10	0.52
36:5:2724:U:OP1	57:n1:57:TYR:OH	2.24	0.52
40:l3:47:LEU:HG	40:l3:335:ILE:HD11	1.91	0.52
71:o5:24:LEU:HA	71:o5:27:GLU:HB2	1.90	0.52
1:2:1492:A:O2'	1:2:1493:A:H8	1.93	0.52
1:2:1518:C:OP2	85:2:2079:OHX:N2	2.43	0.52
1:2:1681:A:H1'	8:S6:66:GLY:HA2	1.91	0.52
2:S0:148:ASP:OD1	2:S0:149:LEU:N	2.39	0.52
3:S1:119:THR:HB	3:S1:143:THR:HG23	1.92	0.52
11:S9:125:ALA:O	11:S9:129:ILE:HG13	2.09	0.52
21:C9:6:VAL:HG11	21:C9:132:LEU:HD23	1.90	0.52
21:C9:28:LEU:HB2	21:C9:30:VAL:HG13	1.92	0.52
36:1:2789:U:H2'	36:1:2790:A:H8	1.75	0.52
54:M8:145:ASN:HD22	54:M8:150:VAL:HG21	1.74	0.52
1:6:66:U:O2'	1:6:67:A:H5''	2.10	0.52
1:6:74:U:C2	1:6:76:A:H5''	2.44	0.52
1:6:828:U:H2'	1:6:829:A:H5''	1.91	0.52
10:s8:44:HIS:O	10:s8:56:ARG:N	2.43	0.52
12:c0:15:LEU:HD13	12:c0:68:LEU:HD22	1.91	0.52
16:c4:122:PRO:C	16:c4:124:ASP:H	2.16	0.52
20:c8:117:LYS:HE2	20:c8:128:PHE:HB2	1.91	0.52
22:d0:95:ALA:HB1	22:d0:99:ILE:HG13	1.90	0.52
36:5:171:G:H1	36:5:247:C:H42	1.57	0.52
36:5:412:G:H1'	53:m7:120:ASN:ND2	2.25	0.52
36:5:621:A:H2'	36:5:622:A:C8	2.45	0.52
36:5:644:G:H2'	36:5:2372:A:N7	2.25	0.52
36:5:1258:U:O2	36:5:1260:A:H8	1.92	0.52
36:5:1500:G:H2'	36:5:1501:U:O4'	2.08	0.52
72:o6:57:LEU:O	72:o6:61:ILE:HG12	2.10	0.52
1:2:1169:G:N1	1:2:1575:G:OP2	2.38	0.52
1:2:1578:U:O2'	1:2:1579:U:H5'	2.09	0.52
7:S5:206:SER:O	7:S5:206:SER:OG	2.23	0.52
8:S6:24:ILE:O	8:S6:26:VAL:N	2.42	0.52
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:84:VAL:HG13	28:D6:85:ARG:N	2.24	0.52
36:1:25:U:O4	85:1:3731:OHX:N3	2.42	0.52
36:1:3369:G:N1	40:L3:380:MET:O	2.42	0.52
51:M5:172:ARG:O	51:M5:183:THR:OG1	2.27	0.52
64:N8:94:ALA:HB1	64:N8:121:VAL:HA	1.91	0.52
75:O9:9:ILE:HD11	75:O9:51:ILE:HD13	1.91	0.52
1:6:658:C:H5'	1:6:659:C:OP2	2.09	0.52
1:6:1653:C:O3'	77:q1:21:ARG:HD2	2.09	0.52
1:6:1699:G:H2'	1:6:1700:C:H5'	1.92	0.52
85:6:2023:OHX:N2	85:6:2109:OHX:N6	2.57	0.52
6:s4:49:ARG:HG3	6:s4:50:ASN:N	2.24	0.52
36:5:1238:C:H2'	36:5:1239:C:O4'	2.09	0.52
36:5:2525:G:P	39:l2:37:ARG:HH12	2.32	0.52
57:n1:117:ALA:C	57:n1:119:ALA:H	2.16	0.52
60:n4:120:LYS:HA	60:n4:123:ARG:HD2	1.92	0.52
64:n8:75:LEU:O	64:n8:77:LYS:N	2.43	0.52
1:2:72:A:O2'	1:2:73:U:H5''	2.10	0.52
1:2:1494:C:H2'	1:2:1495:C:H6	1.73	0.52
17:C5:22:LEU:HA	17:C5:25:LEU:HD12	1.92	0.52
36:1:409:A:H61	38:4:15:G:H1'	1.74	0.52
36:1:603:A:H2'	36:1:604:G:O4'	2.08	0.52
36:1:1222:G:N2	36:1:1285:G:O2'	2.40	0.52
36:1:1638:A:N3	36:1:1709:C:H1'	2.25	0.52
39:L2:177:LYS:NZ	79:Q3:33:GLN:OE1	2.43	0.52
47:M0:31:ILE:O	47:M0:32:ARG:HD3	2.09	0.52
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.92	0.52
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.91	0.52
65:N9:46:ALA:O	65:N9:50:THR:HG22	2.09	0.52
1:6:760:A:OP2	85:6:2047:OHX:N5	2.43	0.52
1:6:1087:A:H2'	1:6:1088:A:C8	2.44	0.52
1:6:1138:A:H2'	1:6:1139:A:H8	1.75	0.52
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.91	0.52
3:s1:137:ILE:HG12	3:s1:172:LEU:HD13	1.91	0.52
8:s6:39:GLU:HG3	8:s6:46:LYS:HG3	1.91	0.52
27:d5:60:VAL:HG13	27:d5:101:TYR:HB2	1.91	0.52
34:sR:232:TYR:H	34:sR:232:TYR:HD2	1.57	0.52
36:5:1276:U:OP2	85:5:3850:OHX:N1	2.43	0.52
37:7:23:A:H2'	37:7:24:A:C8	2.45	0.52
44:l7:88:ARG:NH1	44:l7:91:GLY:O	2.43	0.52
45:l8:83:ASP:OD2	45:l8:86:THR:N	2.39	0.52
47:m0:47:PRO:HB3	47:m0:171:TRP:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:o5:89:ARG:HG2	71:o5:89:ARG:HH11	1.74	0.52
1:2:700:C:N4	1:2:738:G:H1	2.00	0.52
1:2:705:U:H2'	1:2:706:A:C8	2.44	0.52
1:2:1095:U:O4	85:2:2111:OHX:N3	2.43	0.52
1:2:1291:G:O5'	1:2:1291:G:H8	1.92	0.52
1:2:1701:A:H3'	1:2:1702:A:H5''	1.90	0.52
35:SM:107:ASN:HB3	35:SM:112:ASP:HB3	1.90	0.52
36:1:388:G:H4'	53:M7:18:ARG:O	2.10	0.52
36:1:1470:U:H2'	36:1:1471:U:H6	1.75	0.52
36:1:1763:U:H5'	36:1:1764:U:OP2	2.10	0.52
36:1:3278:C:H2'	36:1:3278:C:O2	2.10	0.52
46:L9:93:VAL:HG22	76:Q0:82:LEU:HD13	1.92	0.52
47:M0:66:GLU:CD	47:M0:69:ARG:HH21	2.18	0.52
49:M3:186:ARG:O	49:M3:190:LYS:HB3	2.09	0.52
52:M6:26:GLN:HB3	52:M6:33:ILE:HD13	1.92	0.52
59:N3:21:ALA:HB3	59:N3:36:ILE:HD12	1.91	0.52
1:6:1254:U:OP1	33:e1:143:LYS:HD3	2.09	0.52
1:6:1389:C:O2'	19:c7:52:GLY:HA3	2.09	0.52
1:6:1590:G:H2'	1:6:1591:C:C6	2.45	0.52
1:6:1621:U:H2'	1:6:1622:G:C8	2.44	0.52
2:s0:71:GLU:O	2:s0:96:THR:HG22	2.10	0.52
4:s2:39:THR:OG1	4:s2:65:GLU:OE2	2.20	0.52
7:s5:161:ASP:OD2	30:d8:42:ARG:NH1	2.42	0.52
18:c6:60:PHE:HA	18:c6:63:ILE:HG13	1.92	0.52
20:c8:45:LEU:HD11	21:c9:36:ILE:HG22	1.91	0.52
34:sR:301:LEU:N	34:sR:313:TRP:O	2.29	0.52
36:5:407:A:C2	38:8:17:A:H1'	2.44	0.52
36:5:543:C:H42	36:5:548:G:H1	1.58	0.52
36:5:770:G:N7	85:5:3937:OHX:N6	2.57	0.52
36:5:2732:G:H2'	36:5:2733:A:O4'	2.10	0.52
36:5:3150:A:H5'	40:l3:129:ALA:O	2.09	0.52
36:5:3159:C:H2'	36:5:3160:U:C6	2.45	0.52
36:5:3228:C:H4'	36:5:3229:G:O5'	2.10	0.52
37:7:112:G:OP2	85:7:215:OHX:N4	2.43	0.52
41:l4:287:THR:O	41:l4:291:ASN:ND2	2.43	0.52
44:l7:22:THR:HA	44:l7:25:GLN:HG2	1.91	0.52
46:l9:70:THR:O	46:l9:74:LEU:HG	2.10	0.52
1:2:1140:G:OP2	85:2:2024:OHX:N6	2.43	0.52
9:S7:74:GLN:O	9:S7:78:THR:OG1	2.25	0.52
13:C1:64:VAL:HG11	13:C1:131:ILE:HD11	1.92	0.52
28:D6:82:ARG:O	28:D6:84:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:255:A:H2'	36:1:256:G:C8	2.45	0.52
36:1:835:G:O2'	36:1:857:G:N2	2.32	0.52
36:1:1060:U:H2'	36:1:1061:A:H8	1.75	0.52
36:1:2401:A:C5	36:1:2872:A:N6	2.78	0.52
36:1:3122:A:N1	46:L9:70:THR:HG21	2.25	0.52
36:1:3298:C:OP1	53:M7:74:LYS:NZ	2.33	0.52
45:L8:81:THR:HG21	45:L8:181:LYS:HD2	1.91	0.52
46:L9:180:TYR:HB2	76:Q0:85:LEU:HD13	1.92	0.52
63:N7:46:ILE:HD11	63:N7:49:TYR:HA	1.91	0.52
1:6:1787:C:OP2	16:c4:132:ARG:HB3	2.09	0.52
85:6:2023:OHX:N1	85:6:2109:OHX:N4	2.58	0.52
4:s2:227:PRO:HA	4:s2:230:TRP:CD1	2.45	0.52
11:s9:118:LEU:HD23	11:s9:158:PHE:CE1	2.45	0.52
36:5:229:G:H5'	62:n6:4:GLN:HB2	1.92	0.52
36:5:916:G:C6	39:l2:207:VAL:HG11	2.45	0.52
36:5:1335:C:H2'	36:5:1336:U:H6	1.74	0.52
36:5:1547:G:H2'	36:5:1548:C:C6	2.45	0.52
36:5:1687:U:C5	58:n2:42:LYS:HB2	2.44	0.52
36:5:2406:C:H2'	36:5:2407:C:C6	2.45	0.52
36:5:2927:C:H2'	36:5:2928:C:C6	2.44	0.52
36:5:2970:C:H4'	36:5:2971:A:N1	2.25	0.52
36:5:2992:U:H1'	53:m7:69:ARG:NH2	2.25	0.52
38:8:27:U:O5'	38:8:27:U:H6	1.93	0.52
40:l3:4:ARG:HD3	40:l3:7:GLU:OE1	2.10	0.52
40:l3:41:VAL:CA	40:l3:185:GLY:HA3	2.34	0.52
41:l4:30:ILE:N	54:m8:25:TYR:OH	2.42	0.52
42:l5:297:GLN:HB3	85:l5:302:OHX:N4	2.24	0.52
49:m3:94:GLY:HA3	49:m3:119:TYR:OH	2.10	0.52
61:n5:57:LEU:HA	61:n5:61:LYS:HG2	1.92	0.52
1:2:76:A:H5'	1:2:77:U:OP2	2.10	0.52
1:2:381:C:OP1	11:S9:2:PRO:HA	2.09	0.52
1:2:818:C:N4	1:2:819:G:O6	2.36	0.52
1:2:1665:U:O4	85:2:2095:OHX:N4	2.43	0.52
1:2:1695:G:N2	1:2:1706:C:H41	2.08	0.52
7:S5:222:LYS:HG3	7:S5:225:ARG:CZ	2.39	0.52
16:C4:23:PHE:HE2	16:C4:91:THR:HG21	1.74	0.52
19:C7:24:LEU:HB2	19:C7:58:MET:HE3	1.91	0.52
36:1:255:A:H2'	36:1:256:G:H8	1.75	0.52
36:1:911:C:N4	39:L2:3:ARG:HD3	2.24	0.52
36:1:3318:G:OP2	36:1:3318:G:H2'	2.10	0.52
40:L3:60:LEU:HD23	40:L3:67:PHE:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:199:PHE:O	40:L3:200:GLU:HB3	2.10	0.52
42:L5:55:PHE:CE1	42:L5:60:ILE:HG12	2.45	0.52
45:L8:75:ILE:O	45:L8:77:GLN:N	2.36	0.52
79:Q3:56:THR:HB	79:Q3:63:THR:HG23	1.92	0.52
1:6:489:C:O2'	1:6:490:C:O4'	2.26	0.52
1:6:1180:C:O2'	17:c5:128:HIS:HA	2.10	0.52
6:s4:120:SER:O	6:s4:164:LEU:HB2	2.10	0.52
9:s7:25:VAL:HA	9:s7:28:GLU:HB2	1.92	0.52
18:c6:82:ARG:NH1	18:c6:114:ARG:HB2	2.21	0.52
36:5:148:G:O2'	36:5:149:U:OP2	2.27	0.52
36:5:1239:C:N4	36:5:1249:G:H1	2.00	0.52
36:5:2113:A:N7	36:5:2114:C:C4	2.78	0.52
36:5:2344:U:H2'	36:5:2345:A:C8	2.45	0.52
36:5:2413:A:H2'	36:5:2414:G:H8	1.75	0.52
36:5:3276:G:O2'	36:5:3277:U:OP2	2.28	0.52
38:8:74:U:O2	85:8:215:OHX:N5	2.42	0.52
42:l5:52:VAL:HG21	42:l5:65:ILE:HG13	1.92	0.52
57:n1:105:PHE:O	57:n1:109:VAL:HG23	2.09	0.52
63:n7:25:ILE:HA	63:n7:43:VAL:HG12	1.92	0.52
69:o3:52:VAL:HG21	69:o3:99:ARG:NH1	2.25	0.52
1:2:329:G:H5''	10:S8:98:LYS:HB3	1.93	0.51
1:2:647:G:N2	1:2:687:G:H22	2.07	0.51
1:2:768:C:C2	11:S9:143:ILE:HG12	2.45	0.51
1:2:1579:U:O2'	18:C6:139:GLN:HG3	2.10	0.51
1:2:1748:G:O6	85:2:2064:OHX:N4	2.43	0.51
7:S5:76:ARG:HB3	7:S5:79:ASN:OD1	2.10	0.51
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.44	0.51
18:C6:31:VAL:O	18:C6:33:GLY:N	2.40	0.51
36:1:386:A:H2'	36:1:387:A:O4'	2.09	0.51
36:1:997:A:H2'	36:1:998:A:O4'	2.10	0.51
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.24	0.51
36:1:1364:C:H5''	54:M8:3:ILE:HD13	1.92	0.51
36:1:2544:U:H2'	36:1:2545:C:C6	2.44	0.51
85:1:3832:OHX:N5	85:1:4009:OHX:N1	2.59	0.51
41:L4:33:ASP:OD1	41:L4:34:ILE:HG13	2.09	0.51
41:L4:64:SER:HA	41:L4:75:PRO:HA	1.92	0.51
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.09	0.51
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	1.92	0.51
56:N0:10:ILE:N	56:N0:60:SER:O	2.33	0.51
57:N1:57:TYR:CG	57:N1:89:LEU:HD21	2.46	0.51
72:O6:79:SER:HB3	72:O6:82:ARG:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:187:G:H4'	1:6:188:A:OP1	2.10	0.51
1:6:353:A:OP2	85:6:2014:OHX:N5	2.43	0.51
1:6:1175:U:H2'	1:6:1176:G:C8	2.46	0.51
7:s5:48:PHE:O	7:s5:65:ARG:NH1	2.43	0.51
9:s7:132:PRO:O	9:s7:133:THR:OG1	2.21	0.51
29:d7:59:CYS:O	29:d7:61:THR:N	2.44	0.51
35:sM:79:SER:O	35:sM:79:SER:OG	2.26	0.51
36:5:1716:U:O2'	36:5:1717:U:O5'	2.24	0.51
36:5:3243:A:N7	52:m6:156:LEU:HB3	2.26	0.51
46:l9:90:MET:HG2	46:l9:181:VAL:HA	1.92	0.51
47:m0:210:ILE:HG23	47:m0:217:PHE:CD2	2.45	0.51
48:m1:90:GLN:NE2	48:m1:170:ASP:OD1	2.43	0.51
71:o5:105:ARG:O	71:o5:109:ILE:HG13	2.10	0.51
73:o7:84:SER:O	73:o7:85:LYS:HB2	2.10	0.51
1:2:588:U:OP2	32:E0:26:LYS:NZ	2.43	0.51
1:2:1228:G:H22	14:C2:67:THR:HB	1.74	0.51
5:S3:21:LEU:HD22	5:S3:25:PHE:HE2	1.75	0.51
6:S4:31:PRO:HB2	6:S4:38:LEU:HD22	1.92	0.51
6:S4:64:ILE:HG12	26:D4:17:LEU:HD13	1.92	0.51
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.76	0.51
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.92	0.51
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.91	0.51
21:C9:33:TYR:O	21:C9:36:ILE:HG12	2.09	0.51
24:D2:86:ILE:HD11	24:D2:117:ARG:HD3	1.93	0.51
36:1:929:A:H2'	36:1:930:U:C6	2.45	0.51
36:1:994:G:H3'	57:N1:13:TYR:CD2	2.46	0.51
36:1:2767:U:O2'	78:Q2:30:ALA:O	2.28	0.51
45:L8:26:LEU:HD12	45:L8:26:LEU:H	1.75	0.51
46:L9:22:SER:HG	46:L9:23:ARG:H	1.53	0.51
53:M7:50:GLN:OE1	53:M7:56:ARG:NH2	2.39	0.51
1:6:853:G:H2'	1:6:854:U:H6	1.75	0.51
2:s0:84:ARG:HD3	2:s0:203:PHE:O	2.10	0.51
14:c2:30:VAL:HB	14:c2:132:GLU:HG3	1.92	0.51
14:c2:60:VAL:HG22	14:c2:122:VAL:HG22	1.91	0.51
25:d3:56:LYS:HG2	25:d3:93:LEU:HD11	1.91	0.51
36:5:375:A:OP2	62:n6:89:LYS:NZ	2.43	0.51
36:5:595:G:N1	36:5:609:G:H5''	2.24	0.51
36:5:744:A:H4'	54:m8:142:GLY:O	2.11	0.51
36:5:2356:A:OP1	53:m7:138:LYS:NZ	2.44	0.51
36:5:2854:U:P	47:m0:3:ARG:HH22	2.32	0.51
39:l2:29:LEU:O	39:l2:123:ARG:NE	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:m5:10:LEU:HD23	72:o6:44:VAL:HG13	1.91	0.51
52:m6:85:ARG:HD3	52:m6:90:HIS:ND1	2.24	0.51
79:q3:11:THR:HG21	79:q3:27:LYS:HB2	1.93	0.51
1:2:1148:C:H2'	1:2:1149:G:H8	1.75	0.51
1:2:1756[A]:A:H8	1:2:1756[A]:A:OP2	1.93	0.51
11:S9:110:GLN:HE22	11:S9:126:ARG:N	2.08	0.51
23:D1:39:VAL:HA	23:D1:45:ALA:HA	1.91	0.51
36:1:211:A:OP1	41:L4:220:ARG:NH1	2.39	0.51
36:1:1019:G:N7	85:1:3918:OHX:N4	2.58	0.51
36:1:1166:G:N7	85:1:3726:OHX:N4	2.59	0.51
37:3:48:U:O4	42:L5:58:LYS:HE2	2.10	0.51
38:4:52:A:H62	75:O9:27:ILE:HD13	1.75	0.51
40:L3:56:ILE:HD11	40:L3:359:ILE:HG12	1.93	0.51
47:M0:88:ARG:HG2	47:M0:90:ARG:HG2	1.91	0.51
48:M1:73:GLY:O	48:M1:75:LYS:N	2.43	0.51
49:M3:153:ASP:OD1	49:M3:157:ARG:NH2	2.43	0.51
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.25	0.51
51:M5:112:ASN:OD1	51:M5:112:ASN:N	2.42	0.51
67:O1:53:PRO:O	67:O1:57:GLN:HG3	2.11	0.51
1:6:25:C:O2	85:6:2071:OHX:N5	2.43	0.51
1:6:225:A:N1	1:6:226:A:N6	2.58	0.51
1:6:1091:A:OP1	85:6:2146:OHX:N6	2.43	0.51
9:s7:14:THR:HG22	9:s7:17:GLU:CD	2.34	0.51
30:d8:21:SER:H	30:d8:67:ARG:HA	1.73	0.51
34:sR:123:ILE:HG21	34:sR:169:ILE:HG21	1.92	0.51
36:5:26:A:N3	36:5:328:U:O2'	2.37	0.51
36:5:173:G:HO2'	36:5:174:C:H6	1.57	0.51
36:5:196:G:C2	36:5:199:A:C8	2.99	0.51
36:5:846:A:H8	36:5:846:A:OP1	1.92	0.51
36:5:2209:U:O4	85:5:3806:OHX:N6	2.44	0.51
85:5:3822:OHX:N4	85:5:4035:OHX:N1	2.58	0.51
41:l4:120:TYR:O	41:l4:120:TYR:HD1	1.93	0.51
43:l6:69:PHE:HB2	43:l6:138:GLN:NE2	2.26	0.51
46:l9:57:VAL:HG23	46:l9:68:LEU:HG	1.91	0.51
56:n0:12:ARG:HG3	56:n0:13:ARG:O	2.10	0.51
59:n3:3:GLY:HA2	59:n3:40:LYS:HB3	1.93	0.51
62:n6:36:SER:OG	62:n6:39:LEU:HD23	2.10	0.51
67:o1:13:THR:HG22	67:o1:72:ARG:HH21	1.74	0.51
73:o7:52:LYS:HA	73:o7:55:ARG:HD2	1.93	0.51
1:2:475:A:OP2	11:S9:126:ARG:NH1	2.44	0.51
1:2:567:A:H1'	32:E0:14:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:808:U:H2'	1:2:809:A:C8	2.45	0.51
3:S1:63:GLY:HA2	3:S1:88:VAL:O	2.11	0.51
17:C5:30:THR:O	17:C5:34:VAL:HG13	2.10	0.51
30:D8:8:THR:HB	30:D8:56:LEU:HB2	1.92	0.51
34:SR:44:SER:OG	34:SR:59:ARG:HB2	2.10	0.51
34:SR:114:ASP:HB3	34:SR:156:VAL:HG23	1.92	0.51
36:1:1103:A:H1'	36:1:1104:G:OP1	2.11	0.51
36:1:1278:A:HO2'	36:1:1279:C:C5'	2.23	0.51
36:1:3242:G:N2	36:1:3245:A:H5''	2.25	0.51
51:M5:63:ARG:NH2	51:M5:131:GLU:OE2	2.35	0.51
74:O8:42:LYS:HG3	74:O8:55:VAL:HG22	1.91	0.51
79:Q3:11:THR:O	79:Q3:13:LYS:N	2.43	0.51
1:6:333:A:C6	1:6:334:G:C6	2.98	0.51
1:6:523:G:O6	85:6:2046:OHX:N5	2.43	0.51
1:6:699:U:O4	85:6:2037:OHX:N1	2.43	0.51
1:6:909:U:H2'	1:6:910:C:C6	2.46	0.51
1:6:990:C:O2'	16:c4:127:ARG:HD3	2.10	0.51
2:s0:74:VAL:HG22	2:s0:96:THR:HG23	1.93	0.51
11:s9:123:HIS:CG	32:e0:37:ARG:HD2	2.45	0.51
13:c1:14:GLN:HB3	13:c1:54:ILE:HG13	1.91	0.51
33:e1:91:ILE:HG12	33:e1:92:LYS:HG2	1.92	0.51
36:5:1340:G:H2'	36:5:1341:U:C6	2.45	0.51
36:5:1696:A:OP2	85:5:4022:OHX:N6	2.43	0.51
36:5:1895:A:N6	36:5:2335:G:O2'	2.43	0.51
36:5:2875:U:H2'	36:5:2876:C:O5'	2.10	0.51
46:l9:173:ARG:HB2	46:l9:173:ARG:NH1	2.26	0.51
52:m6:98:ALA:HA	52:m6:101:ARG:HH11	1.75	0.51
53:m7:29:THR:HG22	53:m7:87:SER:OG	2.10	0.51
1:2:448:C:OP1	6:S4:29:PRO:HD3	2.11	0.51
1:2:1642:G:O6	85:2:1983:OHX:N6	2.43	0.51
6:S4:116:ASP:N	6:S4:116:ASP:OD1	2.41	0.51
11:S9:153:GLU:HA	11:S9:156:ILE:HD11	1.92	0.51
13:C1:98:ASN:HD22	24:D2:79:PHE:HD1	1.59	0.51
36:1:439:C:H5'	36:1:440:A:OP2	2.11	0.51
36:1:698:U:H2'	36:1:699:A:O4'	2.11	0.51
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.46	0.51
36:1:1944:U:H2'	36:1:1945:A:C8	2.45	0.51
36:1:2726:C:O2'	36:1:2727:A:H2'	2.10	0.51
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.45	0.51
36:1:3279:A:OP2	36:1:3279:A:H8	1.93	0.51
38:4:106:C:O2'	85:4:228:OHX:N4	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:48:LEU:HD11	47:M0:145:LYS:HB2	1.93	0.51
62:N6:39:LEU:HD22	62:N6:43:TYR:HE2	1.76	0.51
1:6:324:U:OP1	13:c1:133:LYS:NZ	2.29	0.51
1:6:1350:U:H2'	1:6:1351:G:H8	1.74	0.51
2:s0:179:ARG:HD3	2:s0:183:ARG:CZ	2.39	0.51
3:s1:168:ILE:O	3:s1:172:LEU:HG	2.10	0.51
6:s4:100:ARG:NH2	6:s4:122:LYS:HA	2.25	0.51
12:c0:58:GLN:HB3	12:c0:65:TYR:HB2	1.93	0.51
17:c5:80:MET:HE2	17:c5:83:MET:HE2	1.92	0.51
19:c7:29:GLN:HB3	34:sR:85:TRP:CZ3	2.46	0.51
26:d4:94:TYR:HD2	26:d4:96:LEU:HD12	1.75	0.51
34:sR:52:GLN:HG2	34:sR:53:LYS:HG3	1.92	0.51
34:sR:144:LEU:HD21	34:sR:186:PHE:HB3	1.93	0.51
35:sM:131:UNK:O	35:sM:135:UNK:N	2.44	0.51
36:5:1758:G:H5'	58:n2:104:ARG:NH2	2.26	0.51
41:l4:44:LYS:HB3	41:l4:47:ARG:NH1	2.26	0.51
54:m8:64:VAL:HG11	54:m8:113:LYS:HD2	1.92	0.51
59:n3:19:VAL:HG23	59:n3:50:PRO:O	2.11	0.51
63:n7:48:ARG:HB3	63:n7:69:LYS:HB3	1.93	0.51
67:o1:51:LEU:HD22	67:o1:55:LEU:HD12	1.92	0.51
1:2:67:A:N6	1:2:83:G:O2'	2.43	0.51
1:2:329:G:H2'	1:2:330:G:H8	1.75	0.51
1:2:484:C:N4	1:2:503:G:H22	2.08	0.51
1:2:603:U:H2'	1:2:604:A:C8	2.44	0.51
2:S0:110:TYR:HA	2:S0:115:PHE:CZ	2.45	0.51
3:S1:131:ASP:HB3	3:S1:180:THR:HG23	1.93	0.51
36:1:1039:U:H2'	36:1:1040:A:C8	2.45	0.51
36:1:1447:G:H3'	53:M7:67:ILE:CD1	2.40	0.51
36:1:1605:A:O2'	36:1:1607:U:OP2	2.15	0.51
36:1:1643:A:OP2	70:O4:68:THR:HG21	2.10	0.51
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	1.92	0.51
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.92	0.51
46:L9:14:GLU:H	46:L9:14:GLU:CD	2.19	0.51
62:N6:34:PRO:HA	62:N6:47:ALA:HB2	1.93	0.51
69:O3:90:PRO:O	69:O3:92:LYS:N	2.42	0.51
1:6:861:U:H5''	1:6:862:A:OP2	2.10	0.51
1:6:926:A:H2	16:c4:125:SER:HB2	1.74	0.51
1:6:1143:A:O2'	1:6:1300:A:N1	2.43	0.51
1:6:1358:G:H2'	1:6:1359:C:C6	2.46	0.51
7:s5:97:LEU:O	7:s5:99:MET:N	2.44	0.51
8:s6:136:LYS:O	8:s6:175:ILE:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:78:THR:HG23	9:s7:92:PHE:HE1	1.75	0.51
25:d3:51:GLY:O	25:d3:101:GLU:HA	2.11	0.51
36:5:126:U:H2'	36:5:127:G:O4'	2.10	0.51
36:5:406:G:H1'	38:8:16:G:N2	2.25	0.51
36:5:945:C:H2'	36:5:946:U:C6	2.46	0.51
36:5:2960:C:OP1	85:5:3816:OHX:N5	2.44	0.51
39:l2:116:VAL:HG13	39:l2:126:LEU:HB2	1.91	0.51
40:l3:346:THR:HG23	40:l3:351:LEU:HD11	1.93	0.51
44:l7:193:PRO:HB2	44:l7:194:HIS:ND1	2.26	0.51
46:l9:7:GLU:HA	46:l9:68:LEU:HD11	1.92	0.51
49:m3:131:LYS:HD3	49:m3:131:LYS:H	1.76	0.51
57:n1:68:THR:HG22	57:n1:71:SER:O	2.10	0.51
66:o0:16:LEU:HB2	66:o0:98:SER:HB2	1.90	0.51
66:o0:24:THR:HG22	66:o0:91:SER:HB3	1.93	0.51
81:p0:198:PRO:C	81:p0:200:SER:H	2.19	0.51
1:2:209:U:H5'	10:S8:171:SER:HB3	1.93	0.51
1:2:594:A:N3	1:2:595:G:H1'	2.26	0.51
1:2:1498:G:H5''	21:C9:72:GLY:HA3	1.93	0.51
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.45	0.51
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.46	0.51
7:S5:90:ILE:HD11	7:S5:130:ILE:HG13	1.93	0.51
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.93	0.51
9:S7:42:GLN:HG2	9:S7:43:PHE:N	2.25	0.51
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	1.92	0.51
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	1.93	0.51
36:1:1362:G:H4'	44:L7:159:GLN:O	2.10	0.51
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.43	0.51
36:1:3228:C:H4'	36:1:3229:G:O5'	2.10	0.51
40:L3:37:ARG:O	40:L3:186:GLY:HA2	2.11	0.51
46:L9:20:ILE:HD13	46:L9:45:PHE:CD1	2.46	0.51
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	2.10	0.51
71:O5:12:LYS:HB2	71:O5:17:LEU:HG	1.93	0.51
1:6:352:A:H8	1:6:352:A:OP2	1.93	0.51
6:s4:246:LEU:HB2	6:s4:251:GLU:HG3	1.92	0.51
20:c8:4:VAL:HG21	27:d5:82:HIS:CG	2.46	0.51
20:c8:145:ARG:HB3	35:sM:68:ARG:HH12	1.75	0.51
26:d4:124:ARG:O	26:d4:127:LYS:HB3	2.10	0.51
27:d5:71:ILE:CG2	27:d5:76:ALA:HB2	2.41	0.51
34:sR:5:GLU:HA	34:sR:317:THR:HA	1.92	0.51
34:sR:267:PRO:HD2	34:sR:269:TYR:CE1	2.44	0.51
36:5:3218:A:H5''	36:5:3219:G:C5	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3844:OHX:N4	37:7:86:U:O2	2.43	0.51
57:n1:17:ARG:CZ	57:n1:17:ARG:HB3	2.41	0.51
1:2:1531:G:H5'	27:D5:81:ARG:HH21	1.76	0.51
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.76	0.51
6:S4:11:ARG:HB2	6:S4:27:TYR:C	2.35	0.51
26:D4:23:PHE:HE2	26:D4:75:VAL:HG12	1.74	0.51
36:1:2960:C:H2'	36:1:2961:G:H8	1.76	0.51
39:L2:33:ASP:O	39:L2:37:ARG:HB3	2.11	0.51
45:L8:106:LYS:C	45:L8:106:LYS:HE2	2.36	0.51
51:M5:35:VAL:O	51:M5:64:VAL:HA	2.11	0.51
62:N6:118:LEU:O	62:N6:122:LYS:HG3	2.11	0.51
1:6:517:U:O4	85:6:2065:OHX:N4	2.43	0.51
1:6:1537:C:C2	85:6:2121:OHX:N6	2.79	0.51
9:s7:14:THR:HG22	9:s7:17:GLU:OE1	2.11	0.51
13:c1:125:VAL:HG12	13:c1:139:VAL:HA	1.92	0.51
15:c3:65:VAL:O	15:c3:67:THR:N	2.40	0.51
17:c5:56:PHE:CE1	17:c5:60:LEU:HD11	2.46	0.51
20:c8:36:LYS:HB3	20:c8:105:VAL:HG21	1.92	0.51
21:c9:61:VAL:O	21:c9:65:ILE:HG13	2.11	0.51
27:d5:102:THR:HG22	27:d5:103:ARG:H	1.75	0.51
36:5:22:G:H1'	38:8:104:A:N3	2.25	0.51
36:5:1152:G:H22	36:5:1200:A:H61	1.58	0.51
36:5:1231:A:H5''	36:5:1232:C:H5'	1.92	0.51
36:5:1536:G:N7	85:5:3766:OHX:N2	2.58	0.51
85:5:3898:OHX:N1	85:5:4036:OHX:N2	2.58	0.51
37:7:76:A:O2'	56:n0:50:LYS:NZ	2.44	0.51
63:n7:100:THR:HG22	63:n7:106:GLN:HB3	1.92	0.51
67:o1:10:ARG:HH12	67:o1:44:MET:CG	2.23	0.51
1:2:1657:U:C2	85:2:2048:OHX:N5	2.79	0.51
1:2:1680:G:O6	85:2:2069:OHX:N5	2.44	0.51
5:S3:117:ARG:HE	35:SM:122:GLU:HB3	1.75	0.51
19:C7:60:ARG:HG3	19:C7:66:VAL:HG21	1.92	0.51
19:C7:79:GLU:O	19:C7:82:ASP:HB2	2.11	0.51
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.11	0.51
27:D5:60:VAL:HG22	27:D5:101:TYR:HB2	1.92	0.51
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.44	0.51
36:1:2898:G:H5''	36:1:2899:C:C5'	2.40	0.51
39:L2:187:HIS:ND1	39:L2:190:ARG:NH2	2.59	0.51
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.45	0.51
45:L8:73:PRO:HD3	45:L8:233:TRP:CD2	2.46	0.51
1:6:474:A:OP1	11:s9:145:SER:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:205:ARG:C	2:s0:207:PRO:HA	2.36	0.51
15:c3:113:PHE:HA	15:c3:116:ILE:HD12	1.93	0.51
16:c4:11:SER:OG	16:c4:12:GLN:N	2.39	0.51
16:c4:18:ARG:N	16:c4:29:HIS:O	2.37	0.51
23:d1:3:ASN:HD21	23:d1:7:GLN:HB3	1.76	0.51
34:sR:249:ARG:NH1	34:sR:298:GLY:O	2.33	0.51
36:5:1840:U:OP2	85:5:3882:OHX:N4	2.44	0.51
85:5:3877:OHX:N1	85:5:3923:OHX:N2	2.59	0.51
42:l5:110:LEU:HA	42:l5:113:LEU:HB2	1.92	0.51
54:m8:115:VAL:O	54:m8:118:GLY:N	2.40	0.51
59:n3:23:MET:HE3	59:n3:100:GLY:HA3	1.93	0.51
81:p0:93:LEU:CD1	81:p0:94:THR:H	2.24	0.51
1:2:482:U:H2'	1:2:483:A:C8	2.42	0.51
1:2:711:U:H1'	1:2:712:G:C8	2.46	0.51
1:2:739:G:O6	85:2:2056:OHX:N4	2.43	0.51
1:2:1132:A:H2'	1:2:1133:A:C8	2.46	0.51
1:2:1770:U:O2'	85:2:2051:OHX:N6	2.44	0.51
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.10	0.51
22:D0:58:LEU:HD12	22:D0:88:LYS:HB3	1.92	0.51
25:D3:40:SER:OG	25:D3:41:SER:N	2.41	0.51
28:D6:23:CYS:HB2	28:D6:74:CYS:HB3	1.93	0.51
36:1:619:A:H5''	36:1:620:U:OP1	2.11	0.51
36:1:1238:C:H41	36:1:1245:A:P	2.33	0.51
36:1:2896:A:OP1	76:Q0:102:ARG:NE	2.32	0.51
36:1:2947:G:C2	40:L3:250:ALA:HB1	2.46	0.51
85:1:3818:OHX:N4	44:L7:217:PRO:HA	2.25	0.51
37:3:71:G:H2'	37:3:72:A:C8	2.46	0.51
42:L5:51:LEU:HB2	42:L5:144:VAL:HG13	1.93	0.51
42:L5:69:ILE:HG22	57:N1:31:LEU:HB2	1.93	0.51
43:L6:58:LEU:HD12	43:L6:78:ARG:HD3	1.93	0.51
45:L8:225:LYS:O	45:L8:229:VAL:HG23	2.11	0.51
47:M0:53:VAL:HG13	47:M0:134:ILE:HG12	1.93	0.51
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.11	0.51
53:M7:33:ALA:HB1	53:M7:117:ILE:HG12	1.93	0.51
53:M7:40:GLU:HB3	53:M7:43:LYS:HB2	1.93	0.51
54:M8:2:GLY:C	54:M8:3:ILE:HG13	2.35	0.51
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.46	0.51
1:6:1638:G:C2	1:6:1639:C:H1'	2.46	0.51
10:s8:110:ARG:NH1	10:s8:160:PHE:HB3	2.26	0.51
18:c6:68:ARG:NH2	18:c6:70:THR:OG1	2.44	0.51
21:c9:25:GLN:C	21:c9:27:LYS:H	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1064:A:H4'	36:5:1065:A:O5'	2.11	0.51
36:5:1145:G:H5'	68:o2:46:PHE:CE1	2.45	0.51
36:5:1157:G:H2'	36:5:1158:A:O4'	2.11	0.51
41:l4:15:ALA:O	41:l4:16:THR:OG1	2.25	0.51
47:m0:95:HIS:C	47:m0:95:HIS:CD2	2.89	0.51
68:o2:21:HIS:CD2	68:o2:24:ARG:HD2	2.45	0.51
79:q3:87:ARG:O	79:q3:90:VAL:HG22	2.12	0.51
1:2:87:C:O2'	1:2:169:A:N1	2.40	0.50
1:2:794:U:O2'	1:2:795:U:O2	2.24	0.50
1:2:1252:C:O4'	33:E1:133:ALA:HB2	2.11	0.50
1:2:1370:U:O4	85:2:2079:OHX:N3	2.44	0.50
1:2:1566:U:H5''	20:C8:39:GLY:H	1.76	0.50
8:S6:5:ILE:HD13	8:S6:50:PHE:HE1	1.76	0.50
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.93	0.50
16:C4:21:ALA:HA	16:C4:26:THR:HG22	1.93	0.50
36:1:1661:G:H2'	36:1:1662:G:C8	2.46	0.50
36:1:1940:G:H2'	36:1:1941:C:O4'	2.10	0.50
36:1:2807:U:O3'	36:1:2808:A:H3'	2.11	0.50
36:1:3039:C:OP1	59:N3:88:ARG:NH2	2.45	0.50
62:N6:73:VAL:HA	62:N6:80:VAL:HG23	1.93	0.50
1:6:83:G:OP2	85:6:2061:OHX:N4	2.44	0.50
1:6:709:C:O2	1:6:730:G:N2	2.44	0.50
1:6:765:G:N1	11:s9:146:PHE:HZ	2.09	0.50
1:6:1164:G:H1	1:6:1581:C:N4	2.09	0.50
6:s4:15:PRO:HA	6:s4:39:ARG:HH12	1.75	0.50
6:s4:45:ILE:HG13	6:s4:61:VAL:HG21	1.93	0.50
22:d0:41:ILE:HG13	22:d0:107:THR:HG21	1.93	0.50
36:5:1262:G:H5''	36:5:1263:A:OP2	2.11	0.50
36:5:1367:G:OP1	68:o2:45:ARG:NH2	2.44	0.50
36:5:2703:A:OP2	42:l5:23:ARG:NH2	2.36	0.50
36:5:3231:U:H2'	36:5:3232:G:H8	1.76	0.50
85:5:3877:OHX:N3	85:5:3923:OHX:N6	2.59	0.50
45:l8:121:SER:O	45:l8:123:GLN:N	2.44	0.50
57:n1:9:SER:OG	57:n1:10:ARG:HG3	2.11	0.50
62:n6:5:SER:HB3	62:n6:8:VAL:HG13	1.93	0.50
63:n7:75:VAL:HG13	63:n7:80:LEU:HD11	1.94	0.50
1:2:993:A:H4'	1:2:1777:G:O2'	2.11	0.50
2:S0:41:ARG:NE	2:S0:42:PRO:O	2.42	0.50
13:C1:49:ILE:C	13:C1:51:GLY:H	2.19	0.50
36:1:618:C:H5'	53:M7:169:THR:HG22	1.93	0.50
36:1:1724:U:H1'	36:1:1725:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:1:3836:OHX:N1	85:1:4008:OHX:N4	2.59	0.50
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.94	0.50
42:L5:232:ASP:OD2	42:L5:232:ASP:N	2.44	0.50
45:L8:101:THR:HG22	45:L8:104:GLU:HB2	1.92	0.50
49:M3:157:ARG:NH1	64:N8:146:GLU:OE2	2.44	0.50
54:M8:30:VAL:O	54:M8:34:THR:HG23	2.12	0.50
70:O4:95:ILE:O	70:O4:99:LYS:HB2	2.11	0.50
1:6:330:G:OP2	10:s8:172:ARG:NH1	2.44	0.50
1:6:717:C:O2'	1:6:718:U:OP1	2.26	0.50
1:6:1097:U:C4'	1:6:1098:U:H5'	2.38	0.50
1:6:1417:A:OP1	85:6:2050:OHX:N4	2.44	0.50
3:s1:189:ILE:HB	3:s1:190:PRO:HD3	1.94	0.50
7:s5:90:ILE:O	7:s5:94:THR:HG23	2.10	0.50
21:c9:112:GLY:O	21:c9:125:SER:OG	2.19	0.50
22:d0:22:ILE:HG22	22:d0:93:LEU:HB2	1.92	0.50
36:5:306:A:C2	36:5:2784:G:H1'	2.46	0.50
36:5:336:A:O2'	41:l4:48:GLN:OE1	2.25	0.50
36:5:728:G:H5''	54:m8:43:PRO:HB2	1.93	0.50
36:5:3180:A:C6	52:m6:114:LYS:HG2	2.47	0.50
38:8:38:U:C5	71:o5:83:LYS:HA	2.44	0.50
39:l2:172:GLY:HA3	79:q3:67:GLY:HA2	1.92	0.50
40:l3:375:GLU:OE1	60:n4:14:TYR:OH	2.25	0.50
47:m0:84:ALA:O	47:m0:140:THR:HG22	2.11	0.50
51:m5:31:ARG:HG3	51:m5:129:TYR:OH	2.11	0.50
61:n5:64:GLU:OE2	61:n5:87:SER:HA	2.11	0.50
72:o6:62:ARG:HD3	72:o6:94:ILE:HD11	1.93	0.50
1:2:471:A:OP2	85:2:2035:OHX:N4	2.45	0.50
1:2:1316:G:HO2'	1:2:1401:A:HO2'	1.56	0.50
1:2:1657:U:C4	85:2:2048:OHX:N6	2.79	0.50
19:C7:106:THR:O	19:C7:110:VAL:HG23	2.11	0.50
20:C8:145:ARG:HB2	35:SM:68:ARG:HH21	1.76	0.50
24:D2:38:LEU:HA	24:D2:41:MET:HE3	1.94	0.50
29:D7:56:CYS:HB3	29:D7:61:THR:CG2	2.41	0.50
33:E1:126:CYS:O	33:E1:128:ALA:N	2.43	0.50
36:1:1327:C:O2'	69:O3:76:GLY:HA2	2.11	0.50
36:1:1571:A:H2'	36:1:1572:U:O4'	2.10	0.50
38:4:19:C:H2'	38:4:20:U:O4'	2.12	0.50
38:4:147:U:O2	61:N5:37:THR:OG1	2.30	0.50
41:L4:283:THR:HG22	41:L4:285:ASP:N	2.23	0.50
41:L4:351:PRO:HA	44:L7:71:ALA:HA	1.93	0.50
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:14:GLY:O	78:Q2:17:CYS:N	2.45	0.50
79:Q3:11:THR:HG21	79:Q3:23:ARG:HB3	1.92	0.50
1:6:399:A:H4'	6:s4:3:ARG:HG2	1.92	0.50
1:6:629:U:H1'	1:6:971:A:N1	2.27	0.50
1:6:753:A:N7	6:s4:187:ARG:NH1	2.59	0.50
1:6:1102:G:OP2	25:d3:7:ARG:HD2	2.12	0.50
1:6:1251:U:H4'	33:e1:134:ASN:H	1.76	0.50
1:6:1449:U:O4	85:6:2036:OHX:N2	2.44	0.50
20:c8:127:HIS:CD2	20:c8:133:VAL:HG11	2.47	0.50
26:d4:47:VAL:HG13	26:d4:48:TYR:HD2	1.77	0.50
36:5:801:A:H4'	36:5:802:C:O5'	2.12	0.50
36:5:955:U:H2'	36:5:956:U:H6	1.77	0.50
36:5:1485:G:OP2	85:5:3877:OHX:N2	2.44	0.50
42:l5:122:VAL:C	42:l5:124:GLU:H	2.19	0.50
62:n6:37:LYS:H	62:n6:37:LYS:CD	2.25	0.50
62:n6:83:ASP:O	62:n6:84:LYS:HB2	2.10	0.50
69:o3:74:THR:HA	69:o3:81:VAL:HG23	1.92	0.50
70:o4:65:VAL:HG12	70:o4:70:LYS:HE2	1.93	0.50
1:2:495:C:H3'	1:2:496:G:C4'	2.42	0.50
1:2:1557:U:O2'	1:2:1558:U:H2'	2.11	0.50
4:S2:238:SER:C	4:S2:240:LEU:H	2.19	0.50
8:S6:22:HIS:CE1	40:L3:300:ARG:HE	2.28	0.50
9:S7:89:HIS:ND1	9:S7:168:SER:OG	2.32	0.50
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.27	0.50
34:SR:38:ARG:HA	34:SR:67:ILE:HG23	1.94	0.50
36:1:22:G:H1'	38:4:104:A:N3	2.26	0.50
36:1:835:G:HO2'	36:1:857:G:H22	1.54	0.50
36:1:2746:A:C6	42:L5:148:ILE:HD12	2.47	0.50
85:1:3927:OHX:N5	85:1:3975:OHX:N2	2.59	0.50
44:L7:27:ALA:O	44:L7:31:ALA:N	2.44	0.50
45:L8:101:THR:CG2	45:L8:104:GLU:H	2.25	0.50
53:M7:95:LEU:HD23	53:M7:148:LEU:HD13	1.94	0.50
1:6:140:A:H5''	1:6:140:A:N3	2.27	0.50
1:6:163:G:H8	1:6:163:G:O5'	1.94	0.50
1:6:918:U:H2'	1:6:919:A:C8	2.41	0.50
4:s2:161:LYS:HG3	4:s2:166:THR:HG22	1.93	0.50
18:c6:89:LEU:HG	18:c6:105:LEU:HD23	1.93	0.50
36:5:19:U:O4	85:8:219:OHX:N6	2.45	0.50
36:5:645:A:N6	36:5:2869:U:OP1	2.38	0.50
36:5:1257:C:H5'	80:m2:122:UNK:O	2.11	0.50
36:5:1677:G:OP2	58:n2:103:TYR:OH	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:35:ASP:OD1	47:m0:88:ARG:NE	2.33	0.50
48:m1:37:LEU:HD13	48:m1:69:VAL:HG12	1.93	0.50
48:m1:94:ARG:C	48:m1:96:PHE:H	2.15	0.50
53:m7:70:THR:HG21	53:m7:81:ALA:HB3	1.94	0.50
64:n8:73:LEU:HB3	64:n8:112:ILE:HD13	1.92	0.50
72:o6:79:SER:HB3	72:o6:82:ARG:HG3	1.93	0.50
1:2:438:A:OP1	85:2:2000:OHX:N3	2.45	0.50
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	1.94	0.50
7:S5:91:GLU:OE2	7:S5:107:LYS:NZ	2.42	0.50
13:C1:78:THR:O	13:C1:78:THR:OG1	2.22	0.50
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	1.93	0.50
20:C8:24:GLY:O	20:C8:26:ILE:N	2.43	0.50
24:D2:24:GLN:HA	24:D2:63:VAL:O	2.10	0.50
33:E1:144:CYS:O	33:E1:146:SER:N	2.44	0.50
36:1:305:U:C5	36:1:2776:C:H1'	2.46	0.50
36:1:337:G:OP2	41:L4:196:ASN:ND2	2.41	0.50
36:1:679:U:O4	85:1:3833:OHX:N1	2.44	0.50
36:1:1560:G:C2'	36:1:1561:G:H5'	2.41	0.50
36:1:1654:A:O2'	70:O4:59:PRO:HD3	2.11	0.50
36:1:2635:A:H4'	36:1:2636:A:O5'	2.11	0.50
36:1:3057:U:H5'	36:1:3086:A:H61	1.75	0.50
36:1:3112:G:O2'	46:L9:70:THR:HB	2.11	0.50
36:1:3246:G:O6	85:1:3969:OHX:N4	2.45	0.50
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.26	0.50
41:L4:9:HIS:O	41:L4:153:SER:N	2.42	0.50
42:L5:86:TYR:CD1	42:L5:247:ILE:HG13	2.46	0.50
43:L6:52:VAL:HG21	43:L6:65:ILE:HD12	1.94	0.50
44:L7:159:GLN:O	44:L7:160:ARG:C	2.54	0.50
48:M1:137:ARG:HG3	48:M1:141:ARG:HD3	1.94	0.50
52:M6:15:LEU:HD21	52:M6:125:ARG:HG3	1.92	0.50
52:M6:140:LYS:NZ	52:M6:150:GLU:OE1	2.43	0.50
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.47	0.50
64:N8:73:LEU:HB2	64:N8:109:TYR:CD1	2.47	0.50
1:6:496:G:O6	1:6:497:G:N2	2.45	0.50
1:6:947:U:H2'	1:6:948:G:H8	1.76	0.50
6:s4:52:LEU:HB3	6:s4:54:TYR:CD2	2.44	0.50
11:s9:65:LYS:HA	11:s9:70:LEU:HD11	1.94	0.50
20:c8:20:THR:HG21	20:c8:35:ILE:HG23	1.92	0.50
30:d8:50:GLU:O	30:d8:51:ASN:HB2	2.12	0.50
36:5:93:C:OP2	36:5:2764:C:O2'	2.22	0.50
36:5:353:G:N7	73:o7:55:ARG:HD3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1165:A:H2'	36:5:1166:G:O4'	2.11	0.50
36:5:2213:A:H2'	36:5:2214:A:C8	2.46	0.50
36:5:2967:A:H5''	39:12:213:GLY:HA3	1.93	0.50
39:12:238:ILE:C	39:12:240:ALA:H	2.19	0.50
41:14:192:GLY:O	41:14:195:ARG:N	2.41	0.50
62:n6:57:LEU:HB3	62:n6:105:VAL:HG12	1.94	0.50
1:2:218:A:O2'	1:2:219:A:OP1	2.19	0.50
1:2:1120:U:H2'	1:2:1121:C:C6	2.47	0.50
1:2:1413:U:O2	85:2:2030:OHX:N4	2.45	0.50
1:2:1449:U:H2'	1:2:1450:U:C6	2.47	0.50
2:S0:183:ARG:NH2	2:S0:191:ARG:O	2.42	0.50
5:S3:150:MET:HB3	5:S3:152:PHE:HE2	1.76	0.50
6:S4:185:GLY:N	6:S4:189:LEU:HD13	2.27	0.50
17:C5:16:SER:HA	17:C5:20:VAL:O	2.11	0.50
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.11	0.50
36:1:1647:A:H61	36:1:2559:U:H3	1.58	0.50
36:1:2225:U:H2'	36:1:2226:U:C6	2.46	0.50
38:4:155:A:H5'	45:L8:185:ARG:CZ	2.42	0.50
41:L4:71:VAL:HG22	41:L4:72:ALA:H	1.77	0.50
62:N6:47:ALA:O	62:N6:48:LEU:HD23	2.11	0.50
71:O5:83:LYS:HG2	73:O7:73:ARG:HH12	1.76	0.50
1:6:1395:G:H1	1:6:1403:C:H42	1.60	0.50
1:6:1433:G:H22	31:d9:45:GLU:CD	2.20	0.50
1:6:1460:A:OP2	35:sM:68:ARG:NH2	2.35	0.50
7:s5:225:ARG:NH1	30:d8:58:GLU:OE1	2.45	0.50
14:c2:36:LEU:HG	14:c2:41:LEU:HD12	1.93	0.50
16:c4:104:ALA:HA	16:c4:107:ARG:HB3	1.94	0.50
20:c8:30:TYR:O	20:c8:33:THR:OG1	2.30	0.50
21:c9:77:ASN:HB3	21:c9:95:ASP:HB3	1.94	0.50
36:5:225:C:H2'	36:5:226:C:H6	1.76	0.50
36:5:252:U:H4'	36:5:253:A:H5''	1.93	0.50
36:5:626:U:O4	85:5:3827:OHX:N4	2.44	0.50
36:5:731:U:H2'	36:5:732:C:H6	1.77	0.50
36:5:945:C:H2'	36:5:946:U:H6	1.77	0.50
36:5:1313:G:H2'	36:5:1314:C:C6	2.47	0.50
36:5:1662:G:O6	85:5:3763:OHX:N1	2.45	0.50
36:5:2636:A:H5''	36:5:2637:A:H5'	1.94	0.50
36:5:2882:U:H2'	36:5:2883:U:C6	2.47	0.50
36:5:3279:A:H2'	36:5:3280:U:H5'	1.93	0.50
38:8:149:A:H2'	38:8:150:G:C8	2.47	0.50
40:13:313:HIS:O	40:13:333:LYS:HE3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:l8:91:PHE:HZ	45:l8:185:ARG:HB3	1.76	0.50
46:l9:171:ASP:OD2	46:l9:173:ARG:NH1	2.45	0.50
47:m0:38:LYS:NZ	47:m0:45:GLU:OE1	2.44	0.50
76:q0:77:ILE:HG13	76:q0:78:ILE:N	2.25	0.50
1:2:1533:C:H4'	1:2:1539:G:C6	2.46	0.50
1:2:1735:U:O4	85:2:2095:OHX:N2	2.45	0.50
8:S6:25:ARG:NH2	40:L3:298:PHE:O	2.37	0.50
16:C4:31:THR:HB	16:C4:38:THR:HA	1.93	0.50
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.76	0.50
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.76	0.50
36:1:715:A:H4'	36:1:716:A:OP1	2.12	0.50
36:1:1064:A:H5''	36:1:1066:G:O4'	2.12	0.50
36:1:1134:G:C2	36:1:1135:A:C8	2.99	0.50
46:L9:47:LYS:NZ	50:M4:5:SER:HB2	2.27	0.50
46:L9:48:VAL:HG11	46:L9:52:LEU:HD13	1.94	0.50
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	2.45	0.50
47:M0:96:VAL:HA	47:M0:125:LEU:HD23	1.94	0.50
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.77	0.50
63:N7:24:VAL:HG11	63:N7:87:LEU:HB3	1.94	0.50
65:N9:20:GLY:HA2	65:N9:22:LYS:HD2	1.93	0.50
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.94	0.50
1:6:1341:A:O2'	34:sR:102:ARG:NH2	2.44	0.50
4:s2:162:CYS:H	4:s2:213:ALA:HB2	1.77	0.50
11:s9:129:ILE:C	11:s9:131:GLN:H	2.20	0.50
13:c1:132:SER:O	13:c1:132:SER:OG	2.30	0.50
28:d6:36:ILE:H	28:d6:36:ILE:HD12	1.76	0.50
31:d9:21:CYS:C	31:d9:23:VAL:H	2.20	0.50
36:5:508:U:O4	85:5:3864:OHX:N1	2.45	0.50
36:5:655:C:H2'	36:5:656:A:H8	1.77	0.50
36:5:659:G:H4'	41:l4:92:ASN:O	2.11	0.50
38:8:38:U:O4	71:o5:89:ARG:HD2	2.12	0.50
40:l3:339:ARG:HG2	40:l3:340:LYS:O	2.11	0.50
42:l5:226:TYR:HE1	42:l5:236:LEU:HD11	1.77	0.50
46:l9:166:ARG:NH2	46:l9:168:ARG:NH1	2.59	0.50
48:m1:90:GLN:HG2	48:m1:170:ASP:HB2	1.93	0.50
61:n5:67:ILE:HD12	61:n5:121:LYS:HG3	1.94	0.50
1:2:5:U:H2'	1:2:6:G:C8	2.47	0.50
1:2:377:G:O6	85:2:2037:OHX:N5	2.44	0.50
1:2:1528:U:H2'	1:2:1529:C:H6	1.76	0.50
1:2:1683:C:O2'	1:2:1684:U:O5'	2.30	0.50
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:38:PHE:HB3	3:S1:73:LEU:HD13	1.94	0.50
7:S5:20:PHE:CD2	7:S5:35:GLN:HG3	2.47	0.50
7:S5:37:GLN:HG2	18:C6:53:LEU:HD13	1.94	0.50
8:S6:32:ILE:HG12	8:S6:52:ILE:HG22	1.93	0.50
11:S9:166:GLY:O	11:S9:168:ARG:N	2.42	0.50
14:C2:60:VAL:HG23	14:C2:87:PRO:HG2	1.94	0.50
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	1.94	0.50
34:SR:109:ASP:OD1	34:SR:109:ASP:N	2.43	0.50
36:1:391:A:C5	36:1:392:G:C8	3.00	0.50
36:1:531:G:H2'	36:1:532:A:C8	2.47	0.50
36:1:964:G:O2'	64:N8:41:HIS:NE2	2.39	0.50
36:1:1352:A:H2'	36:1:1352:A:N3	2.27	0.50
36:1:1498:A:H2'	36:1:1499:C:H6	1.73	0.50
36:1:1559:A:H4'	36:1:1560:G:OP2	2.11	0.50
38:4:104:A:C8	38:4:105:A:C8	3.00	0.50
40:L3:23:ALA:O	85:L3:402:OHX:N6	2.45	0.50
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.46	0.50
42:L5:256:THR:OG1	42:L5:258:LYS:NZ	2.44	0.50
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	1.93	0.50
46:L9:88:TYR:CE2	46:L9:184:LYS:HG2	2.46	0.50
65:N9:25:LYS:HB2	65:N9:25:LYS:NZ	2.26	0.50
72:O6:5:THR:OG1	72:O6:7:ILE:HG12	2.11	0.50
73:O7:21:ARG:HD2	73:O7:37:CYS:SG	2.52	0.50
1:6:560:U:H2'	1:6:561:G:C8	2.47	0.50
1:6:947:U:H2'	1:6:948:G:C8	2.47	0.50
1:6:1097:U:O2'	4:s2:168:ARG:HD2	2.11	0.50
2:s0:41:ARG:NH2	19:c7:103:ASP:OD2	2.45	0.50
5:s3:192:PRO:O	5:s3:195:SER:OG	2.27	0.50
11:s9:36:LEU:HD11	11:s9:105:LEU:HD21	1.94	0.50
11:s9:171:ARG:HH11	11:s9:174:ARG:HB3	1.76	0.50
20:c8:88:ARG:NH1	20:c8:112:ASP:OD2	2.45	0.50
36:5:71:A:OP2	64:n8:67:HIS:NE2	2.43	0.50
36:5:532:A:N6	36:5:555:U:O2	2.45	0.50
36:5:1128:U:H2'	36:5:1129:A:O4'	2.12	0.50
38:8:69:U:OP2	85:8:212:OHX:N5	2.45	0.50
39:l2:70:ARG:HD2	39:l2:72:ARG:NE	2.22	0.50
46:l9:129:ARG:O	46:l9:132:VAL:HG13	2.12	0.50
49:m3:36:ARG:O	49:m3:39:ARG:N	2.38	0.50
54:m8:158:HIS:H	54:m8:186:VAL:CG1	2.25	0.50
63:n7:105:SER:O	63:n7:109:GLU:N	2.36	0.50
64:n8:73:LEU:HB2	64:n8:109:TYR:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:o3:49:ILE:N	69:o3:69:GLY:O	2.32	0.50
71:o5:6:ALA:HB1	71:o5:10:ARG:NH2	2.27	0.50
74:o8:73:LEU:O	74:o8:75:VAL:HG23	2.12	0.50
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.11	0.50
20:C8:5:VAL:O	20:C8:6:GLN:NE2	2.45	0.50
26:D4:14:SER:O	26:D4:16:PRO:HD3	2.12	0.50
36:1:562:C:H2'	36:1:563:U:C6	2.47	0.50
36:1:1560:G:N1	36:1:1580:A:N1	2.59	0.50
36:1:2697:A:H2'	36:1:2698:G:C8	2.46	0.50
36:1:2699:G:OP2	85:1:3767:OHX:N1	2.45	0.50
36:1:2875:U:O4'	87:1:3401:ANM:H10	2.11	0.50
40:L3:53:MET:HE2	40:L3:77:THR:CG2	2.42	0.50
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.93	0.50
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.43	0.50
47:M0:10:ARG:HG2	47:M0:11:TYR:CE1	2.46	0.50
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.94	0.50
52:M6:188:SER:O	52:M6:192:LYS:HG2	2.12	0.50
53:M7:51:VAL:HG11	53:M7:88:VAL:HG21	1.94	0.50
1:6:560:U:H2'	1:6:561:G:H8	1.75	0.50
1:6:871:G:H2'	1:6:872:G:C8	2.47	0.50
1:6:1111:G:O6	85:6:2033:OHX:N3	2.45	0.50
1:6:1548:G:H1'	20:c8:89:GLN:NE2	2.27	0.50
1:6:1640:C:O5'	1:6:1640:C:H6	1.93	0.50
9:s7:33:GLU:O	9:s7:35:LYS:N	2.45	0.50
12:c0:23:ALA:O	12:c0:24:LYS:HB3	2.12	0.50
23:d1:3:ASN:ND2	23:d1:7:GLN:HB3	2.27	0.50
36:5:80:G:H2'	36:5:81:C:H6	1.76	0.50
36:5:1071:U:O4	85:5:3950:OHX:N6	2.45	0.50
36:5:1190:A:H4'	76:q0:113:ARG:NH2	2.27	0.50
36:5:1420:C:OP1	38:8:20:U:H5''	2.12	0.50
38:8:56:G:H2'	38:8:57:C:O4'	2.12	0.50
43:l6:31:ARG:O	43:l6:33:SER:N	2.45	0.50
44:l7:219:LYS:O	44:l7:228:SER:HB2	2.12	0.50
45:l8:238:LEU:HB3	45:l8:242:ALA:HB3	1.94	0.50
49:m3:168:ARG:CZ	49:m3:172:LEU:HD21	2.42	0.50
52:m6:171:LYS:O	52:m6:175:THR:HG22	2.11	0.50
79:q3:7:LYS:O	79:q3:27:LYS:NZ	2.41	0.50
1:2:556:A:N3	1:2:590:C:H1'	2.27	0.49
1:2:786:C:O2'	6:S4:255:ARG:HD3	2.11	0.49
1:2:1518:C:OP1	85:2:2079:OHX:N5	2.45	0.49
1:2:1619:C:H2'	1:2:1620:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:11:ARG:O	6:S4:12:LEU:HB2	2.11	0.49
8:S6:59:GLN:OE1	8:S6:72:ARG:NH1	2.45	0.49
9:S7:41:LEU:HB3	9:S7:70:PHE:HE1	1.77	0.49
12:C0:32:HIS:NE2	12:C0:35:ILE:HB	2.27	0.49
24:D2:104:LEU:HB2	24:D2:124:LYS:O	2.12	0.49
36:1:343:U:O2	41:L4:95:ARG:HD2	2.12	0.49
36:1:1803:C:O3'	70:O4:70:LYS:NZ	2.38	0.49
36:1:2267:C:H2'	36:1:2268:U:O4'	2.12	0.49
37:3:52:G:C6	37:3:53:U:C4	3.00	0.49
37:3:91:G:C6	37:3:92:A:C6	2.99	0.49
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	1.94	0.49
53:M7:41:LEU:HD23	53:M7:95:LEU:HD22	1.94	0.49
60:N4:1:MET:HE3	60:N4:15:PRO:HD3	1.93	0.49
66:O0:56:LEU:O	66:O0:60:ALA:N	2.40	0.49
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.10	0.49
78:Q2:43:TYR:CZ	78:Q2:47:GLN:NE2	2.80	0.49
1:6:511:A:H5''	11:s9:172:VAL:HG22	1.94	0.49
1:6:934:C:H6	28:d6:11:ASN:HB3	1.74	0.49
1:6:1078:C:H2'	1:6:1079:U:C6	2.47	0.49
4:s2:69:ILE:HG12	4:s2:133:LYS:HB3	1.94	0.49
17:c5:16:SER:HA	17:c5:21:ASP:HA	1.93	0.49
20:c8:5:VAL:O	27:d5:42:LEU:HB2	2.12	0.49
36:5:985:U:H2'	36:5:986:U:H6	1.77	0.49
36:5:1831:U:H2'	36:5:1832:C:C6	2.46	0.49
36:5:2561:A:O2'	36:5:2562:A:H5''	2.11	0.49
36:5:3131:U:H2'	36:5:3132:C:C6	2.47	0.49
36:5:3370:A:H5'	40:l3:384:LYS:HD2	1.94	0.49
85:5:3844:OHX:N3	85:7:219:OHX:N4	2.60	0.49
41:l4:288:ARG:O	41:l4:291:ASN:N	2.42	0.49
41:l4:290:ILE:HG23	54:m8:35:PHE:CE2	2.46	0.49
42:l5:54:ARG:NH1	42:l5:147:ASP:O	2.45	0.49
51:m5:192:LYS:O	51:m5:196:THR:OG1	2.27	0.49
52:m6:61:ALA:HB1	52:m6:66:LYS:HG3	1.93	0.49
1:2:359:A:C2	25:D3:38:PHE:HB3	2.47	0.49
1:2:1483:A:H2'	1:2:1484:G:C8	2.48	0.49
1:2:1795:U:O2	28:D6:10:ARG:HD2	2.12	0.49
3:S1:222:LYS:HD3	3:S1:223:PHE:H	1.76	0.49
6:S4:129:VAL:HB	6:S4:139:VAL:HG12	1.93	0.49
17:C5:80:MET:SD	17:C5:83:MET:HE2	2.52	0.49
20:C8:2:SER:HB2	20:C8:3:LEU:HD13	1.94	0.49
24:D2:77:PRO:O	24:D2:79:PHE:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:37:LYS:HA	28:D6:71:LEU:O	2.11	0.49
30:D8:13:ILE:HG13	30:D8:30:VAL:HA	1.94	0.49
34:SR:70:ASP:OD1	34:SR:71:CYS:N	2.41	0.49
36:1:621:A:H8	36:1:623:U:O4	1.95	0.49
36:1:1069:C:H2'	36:1:1070:U:H6	1.77	0.49
36:1:1470:U:H2'	36:1:1471:U:C6	2.47	0.49
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.24	0.49
42:L5:164:LYS:HG2	42:L5:180:PHE:CZ	2.47	0.49
72:O6:7:ILE:HG13	72:O6:9:ILE:O	2.13	0.49
1:6:191:C:O2'	1:6:192:U:O5'	2.30	0.49
1:6:1691:A:H2'	1:6:1692:G:C8	2.47	0.49
1:6:1699:G:N1	1:6:1701:A:H5''	2.27	0.49
2:s0:119:ARG:HB3	2:s0:119:ARG:NH1	2.26	0.49
3:s1:30:PHE:HB3	3:s1:96:LEU:HD22	1.93	0.49
13:c1:69:LYS:HB3	13:c1:71:LEU:HD21	1.94	0.49
35:sM:46:LYS:HA	36:5:1018:G:H4'	1.94	0.49
36:5:30:G:P	51:m5:172:ARG:HD2	2.52	0.49
36:5:629:U:H2'	36:5:630:A:C8	2.47	0.49
36:5:857:G:O2'	36:5:858:A:OP2	2.28	0.49
36:5:1070:U:C4	36:5:1071:U:C4	3.01	0.49
36:5:1552:G:OP2	85:5:3849:OHX:N3	2.45	0.49
36:5:1595:U:C2	36:5:1596:C:C5	3.00	0.49
36:5:1616:U:H2'	36:5:1617:G:C8	2.47	0.49
36:5:2902:A:OP1	46:l9:170:LYS:HE3	2.11	0.49
37:7:61:G:H5''	42:l5:276:LYS:HB2	1.94	0.49
41:l4:26:PHE:CD1	41:l4:130:ALA:HB2	2.47	0.49
42:l5:242:SER:O	42:l5:245:GLU:HB2	2.12	0.49
43:l6:131:LYS:O	43:l6:135:VAL:HG23	2.12	0.49
44:l7:144:ILE:O	44:l7:148:VAL:HG23	2.13	0.49
49:m3:157:ARG:HH12	64:n8:146:GLU:CD	2.18	0.49
52:m6:121:PRO:HA	52:m6:124:LEU:HD22	1.93	0.49
59:n3:120:LYS:HB2	59:n3:137:VAL:CG2	2.42	0.49
61:n5:132:ALA:O	61:n5:135:ILE:HG22	2.12	0.49
78:q2:104:LEU:H	78:q2:104:LEU:HD22	1.77	0.49
1:2:733:A:H4'	1:2:734:A:C6	2.46	0.49
1:2:1139:A:OP2	85:2:2024:OHX:N5	2.45	0.49
1:2:1556:A:H3'	17:C5:40:ARG:HD3	1.94	0.49
1:2:1563:C:OP1	21:C9:84:LYS:NZ	2.27	0.49
1:2:1589:C:H2'	1:2:1590:G:C8	2.48	0.49
1:2:1590:G:OP1	21:C9:91:TYR:HB2	2.12	0.49
4:S2:114:GLY:HA3	4:S2:132:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:51:VAL:HG23	9:S7:53:GLY:H	1.77	0.49
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.94	0.49
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.93	0.49
20:C8:100:THR:HG21	20:C8:108:LYS:HG3	1.94	0.49
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.48	0.49
29:D7:47:PHE:CE1	29:D7:49:HIS:HB2	2.47	0.49
36:1:1025:A:C2	36:1:1026:A:H1'	2.48	0.49
36:1:1582:C:O2'	36:1:1583:A:O5'	2.28	0.49
36:1:2539:C:H5'	36:1:2541:U:O4	2.12	0.49
36:1:2563:G:H5''	45:L8:27:THR:HG23	1.93	0.49
37:3:67:G:H2'	37:3:68:C:O4'	2.12	0.49
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	1.94	0.49
62:N6:39:LEU:HD22	62:N6:43:TYR:CE2	2.47	0.49
76:Q0:127:LEU:HD23	76:Q0:128:LYS:H	1.77	0.49
1:6:433:C:H5''	1:6:434:G:OP2	2.13	0.49
1:6:926:A:H1'	1:6:988:A:C2	2.47	0.49
1:6:1228:G:N3	1:6:1228:G:H2'	2.27	0.49
17:c5:51:SER:C	17:c5:53:PRO:HD2	2.37	0.49
36:5:709:A:H8	36:5:709:A:O5'	1.95	0.49
36:5:721:G:O6	85:5:3855:OHX:N3	2.44	0.49
36:5:1098:A:OP2	57:n1:130:ARG:HD3	2.12	0.49
36:5:2155:G:OP1	39:l2:241:ARG:HG2	2.12	0.49
37:7:121:U:H5'	42:l5:260:PHE:CE2	2.47	0.49
40:l3:4:ARG:HG3	40:l3:6:TYR:O	2.12	0.49
40:l3:142:ALA:O	40:l3:146:ARG:N	2.39	0.49
54:m8:83:VAL:O	54:m8:83:VAL:HG12	2.11	0.49
1:2:550:A:OP2	85:2:1986:OHX:N4	2.46	0.49
1:2:1183:A:C6	1:2:1184:A:N1	2.81	0.49
1:2:1523:G:OP1	1:2:1523:G:H2'	2.12	0.49
6:S4:71:LYS:HB3	6:S4:76:VAL:HA	1.93	0.49
8:S6:109:LEU:HD13	8:S6:111:LEU:HD21	1.94	0.49
19:C7:58:MET:O	19:C7:62:GLN:NE2	2.45	0.49
34:SR:238:ASP:N	34:SR:238:ASP:OD1	2.44	0.49
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.27	0.49
36:1:199:A:C4	36:1:201:A:C8	3.01	0.49
36:1:385:A:H2'	36:1:386:A:C8	2.47	0.49
36:1:943:U:H3'	64:N8:13:GLY:HA2	1.93	0.49
36:1:1546:A:N7	51:M5:71:ARG:NH1	2.60	0.49
36:1:2749:G:N7	85:1:3976:OHX:N4	2.61	0.49
36:1:3169:U:H2'	36:1:3170:A:O4'	2.12	0.49
85:1:3832:OHX:N5	85:1:4009:OHX:N2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:115:ARG:HG3	46:L9:123:ILE:HG23	1.94	0.49
47:M0:96:VAL:HG22	47:M0:125:LEU:HD21	1.94	0.49
1:6:647:G:H8	1:6:647:G:O5'	1.94	0.49
1:6:958:U:OP2	29:d7:20:LYS:NZ	2.38	0.49
8:s6:2:LYS:O	8:s6:109:LEU:N	2.39	0.49
12:c0:8:ARG:O	12:c0:12:HIS:ND1	2.44	0.49
24:d2:104:LEU:HD22	24:d2:125:ILE:HA	1.92	0.49
36:5:720:A:C2	36:5:784:A:H5'	2.46	0.49
36:5:789:A:H2'	36:5:790:U:H6	1.77	0.49
36:5:901:G:H2'	36:5:902:G:C8	2.47	0.49
36:5:1408:G:P	68:o2:33:ARG:HH22	2.36	0.49
36:5:2111:G:H4'	36:5:2112:U:OP2	2.12	0.49
36:5:2298:U:O4	36:5:2923:U:H5	1.95	0.49
36:5:2894:C:OP1	46:l9:168:ARG:NH2	2.42	0.49
85:5:3854:OHX:N6	85:5:4037:OHX:N5	2.60	0.49
40:l3:50:LYS:HG2	40:l3:332:ARG:HA	1.95	0.49
40:l3:56:ILE:HG22	40:l3:74:GLU:HB2	1.94	0.49
48:m1:109:HIS:O	48:m1:112:LEU:HD23	2.12	0.49
72:o6:58:ILE:O	72:o6:61:ILE:HB	2.11	0.49
1:2:66:U:C5	8:S6:173:PRO:HG3	2.44	0.49
1:2:365:G:O6	85:2:2065:OHX:N5	2.46	0.49
1:2:1482:C:OP2	1:2:1521:G:N1	2.44	0.49
6:S4:139:VAL:HG13	6:S4:150:PRO:HG3	1.94	0.49
11:S9:58:ASP:O	11:S9:61:THR:OG1	2.29	0.49
12:C0:77:ARG:HA	12:C0:82:LEU:HD12	1.95	0.49
14:C2:126:TRP:O	14:C2:128:ALA:N	2.46	0.49
16:C4:25:ASP:N	16:C4:55:SER:HB3	2.26	0.49
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.61	0.49
36:1:772:U:H2'	36:1:773:G:C8	2.47	0.49
36:1:1942:U:HO2'	36:1:3345:G:HO2'	1.58	0.49
36:1:2771:U:H2'	36:1:2772:C:C2	2.48	0.49
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.42	0.49
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.12	0.49
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.24	0.49
47:M0:76:MET:HE2	47:M0:148:VAL:HA	1.95	0.49
55:M9:115:ILE:HD12	55:M9:142:ILE:HD13	1.94	0.49
64:N8:125:VAL:HG21	64:N8:138:ILE:HD13	1.93	0.49
78:Q2:34:SER:OG	78:Q2:35:LEU:O	2.26	0.49
1:6:151:G:N2	1:6:163:G:N2	2.60	0.49
1:6:595:G:H2'	1:6:596:C:C6	2.48	0.49
1:6:1316:G:OP1	19:c7:7:LYS:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1354:G:H5'	1:6:1355:C:OP2	2.12	0.49
16:c4:61:MET:O	16:c4:65:GLN:HG2	2.11	0.49
19:c7:30:THR:HG22	34:sR:127:ARG:HH22	1.77	0.49
20:c8:140:THR:HA	20:c8:143:ARG:NH1	2.28	0.49
26:d4:50:ALA:HB1	26:d4:54:ALA:HB3	1.94	0.49
30:d8:19:THR:HG21	30:d8:65:ARG:HA	1.95	0.49
36:5:197:G:H2'	36:5:198:A:C8	2.47	0.49
36:5:518:G:OP2	36:5:518:G:N2	2.36	0.49
36:5:1122:U:H2'	36:5:1123:U:H6	1.76	0.49
36:5:3163:A:O2'	36:5:3164:C:H5'	2.13	0.49
46:l9:48:VAL:HG23	46:l9:52:LEU:HB3	1.95	0.49
48:m1:83:GLY:O	48:m1:86:VAL:N	2.44	0.49
59:n3:13:ILE:HD12	59:n3:85:TRP:CG	2.48	0.49
77:q1:4:LYS:HD3	77:q1:5:TRP:CZ3	2.48	0.49
1:2:117:U:H2'	1:2:118:U:O4'	2.13	0.49
1:2:336:G:H5'	13:C1:130:PRO:O	2.12	0.49
1:2:1239:U:OP1	85:2:2101:OHX:N5	2.45	0.49
1:2:1500:C:H5'	21:C9:106:GLN:NE2	2.28	0.49
3:S1:120:LEU:HD23	3:S1:121:ILE:N	2.28	0.49
7:S5:94:THR:OG1	7:S5:95:ASN:N	2.45	0.49
34:SR:29:GLN:HE21	34:SR:32:LEU:HD22	1.77	0.49
36:1:670:C:P	54:M8:147:ARG:HH22	2.36	0.49
36:1:860:G:C5	39:L2:181:LYS:HB2	2.47	0.49
36:1:1821:U:N3	70:O4:67:LYS:HD2	2.27	0.49
36:1:3047:U:O2'	40:L3:53:MET:HE1	2.12	0.49
50:M4:20:VAL:HG13	50:M4:68:LEU:O	2.12	0.49
61:N5:105:VAL:HG13	61:N5:130:TYR:CG	2.47	0.49
1:6:74:U:N3	1:6:76:A:H5''	2.27	0.49
1:6:385:A:OP1	10:s8:25:ARG:NH1	2.45	0.49
1:6:591:A:H2'	1:6:592:A:C8	2.48	0.49
1:6:1700:C:O2'	1:6:1701:A:OP1	2.30	0.49
2:s0:70:PRO:O	2:s0:95:ALA:N	2.32	0.49
12:c0:50:THR:HG22	12:c0:55:VAL:HG22	1.94	0.49
23:d1:33:GLN:HG3	23:d1:53:TYR:O	2.13	0.49
25:d3:62:LYS:HG3	25:d3:118:PRO:HG3	1.95	0.49
28:d6:87:ARG:NH2	28:d6:91:ASP:O	2.45	0.49
36:5:215:G:H5''	62:n6:12:ARG:HD3	1.94	0.49
36:5:408:A:H61	38:8:15:G:H1'	1.77	0.49
36:5:996:A:C2	36:5:1054:A:C4	3.00	0.49
36:5:3155:U:H3'	36:5:3156:U:H5''	1.95	0.49
37:7:47:C:H2'	37:7:48:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:l4:29:PRO:HG3	41:l4:279:HIS:CD2	2.47	0.49
49:m3:75:PHE:O	49:m3:79:GLU:HB2	2.12	0.49
52:m6:65:ASN:HB3	52:m6:68:ARG:HD3	1.93	0.49
68:o2:124:GLY:O	68:o2:126:LEU:N	2.46	0.49
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.12	0.49
1:2:412:A:H2'	1:2:413:U:C6	2.47	0.49
1:2:789:A:OP1	6:S4:108:ARG:NH2	2.43	0.49
1:2:929:A:C8	16:C4:123:SER:HA	2.47	0.49
30:D8:12:VAL:HG22	30:D8:28:VAL:HG11	1.93	0.49
34:SR:134:TRP:HA	34:SR:140:CYS:HA	1.95	0.49
34:SR:182:ASN:HD21	34:SR:184:ASN:HB2	1.78	0.49
34:SR:240:VAL:HA	34:SR:255:ALA:O	2.13	0.49
36:1:1724:U:H4'	36:1:1725:C:OP1	2.12	0.49
37:3:11:A:H4'	37:3:13:A:C8	2.46	0.49
38:4:70:G:OP2	38:4:70:G:H8	1.96	0.49
41:L4:295:ILE:O	41:L4:299:ILE:HG12	2.12	0.49
42:L5:97:ALA:O	42:L5:101:THR:OG1	2.29	0.49
42:L5:107:ARG:HH22	42:L5:120:LYS:HA	1.78	0.49
42:L5:115:LEU:H	42:L5:115:LEU:HD22	1.77	0.49
64:N8:77:LYS:O	64:N8:79:TRP:N	2.45	0.49
5:s3:62:ASN:ND2	5:s3:62:ASN:O	2.45	0.49
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.76	0.49
15:c3:24:ALA:O	15:c3:27:LYS:HE2	2.13	0.49
18:c6:46:PHE:HA	18:c6:49:TYR:HB2	1.94	0.49
26:d4:44:LEU:HA	26:d4:47:VAL:HG12	1.95	0.49
36:5:123:A:C6	36:5:150:A:C5	3.00	0.49
36:5:266:A:H2'	72:o6:30:LYS:HE3	1.94	0.49
36:5:787:G:H2'	36:5:788:C:C6	2.48	0.49
40:l3:232:ARG:HG2	40:l3:233:TRP:CD1	2.47	0.49
44:l7:233:GLU:C	44:l7:235:PHE:H	2.21	0.49
51:m5:143:ARG:HH21	71:o5:92:LEU:HA	1.78	0.49
59:n3:133:SER:O	85:n3:203:OHX:N3	2.45	0.49
67:o1:15:ASN:O	67:o1:19:ARG:HD2	2.13	0.49
1:2:54:C:O2'	1:2:459:G:N7	2.36	0.49
1:2:144:U:H5	8:S6:137:ARG:NH1	2.11	0.49
1:2:583:C:H2'	1:2:584:C:H6	1.77	0.49
1:2:867:G:O6	85:2:1992:OHX:N2	2.46	0.49
1:2:1214:U:OP1	1:2:1246:C:H1'	2.13	0.49
36:1:650:C:H2'	36:1:651:G:C8	2.48	0.49
36:1:655:C:H2'	36:1:656:A:C8	2.47	0.49
36:1:735:A:H8	36:1:735:A:O5'	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:993:G:N3	36:1:2637:A:H2'	2.28	0.49
36:1:1274:A:H2'	36:1:1275:C:C6	2.48	0.49
42:L5:34:LYS:HD2	57:N1:30:TYR:CZ	2.47	0.49
61:N5:34:LEU:HD22	61:N5:35:PRO:HD2	1.95	0.49
62:N6:55:GLU:HG2	62:N6:69:LYS:HB2	1.95	0.49
66:O0:40:LYS:HB3	66:O0:101:LEU:HD21	1.95	0.49
1:6:208:U:H4'	10:s8:176:SER:HB3	1.95	0.49
1:6:626:U:H2'	1:6:627:C:H6	1.77	0.49
1:6:832:U:OP2	85:6:2129:OHX:N6	2.45	0.49
1:6:846:G:N2	13:c1:46:LYS:HE2	2.28	0.49
1:6:930:A:H2'	3:s1:114:VAL:HG11	1.94	0.49
1:6:1114:G:O2'	1:6:1130:G:O6	2.23	0.49
1:6:1698:G:H1'	1:6:1699:G:OP1	2.13	0.49
8:s6:67:VAL:HG21	8:s6:99:GLY:HA2	1.93	0.49
20:c8:29:VAL:HB	20:c8:30:TYR:CD1	2.48	0.49
35:sM:39:PRO:HD3	48:m1:52:TYR:CZ	2.48	0.49
36:5:142:C:H2'	36:5:143:G:O4'	2.12	0.49
36:5:1281:G:H5''	81:p0:55:LYS:HG3	1.93	0.49
47:m0:210:ILE:HA	47:m0:217:PHE:CE2	2.48	0.49
56:n0:155:ARG:NH2	56:n0:172:TYR:HA	2.27	0.49
57:n1:122:GLN:HB3	57:n1:124:VAL:HG23	1.95	0.49
59:n3:48:ARG:HG3	59:n3:48:ARG:NH1	2.22	0.49
1:2:330:G:C6	1:2:331:A:C6	3.01	0.49
1:2:827:C:H2'	1:2:828:U:C6	2.48	0.49
1:2:1165:G:C6	1:2:1166:A:C6	3.00	0.49
1:2:1409:G:N1	1:2:1412:G:OP2	2.45	0.49
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	1.95	0.49
36:1:118:U:H3	36:1:122:A:H5'	1.78	0.49
36:1:1404:G:N7	85:1:3895:OHX:N3	2.61	0.49
36:1:2403:G:N7	36:1:2870:C:H4'	2.28	0.49
36:1:2882:U:H2'	36:1:2883:U:C6	2.48	0.49
40:L3:215:ILE:HD13	40:L3:282:ILE:HD11	1.95	0.49
41:L4:209:TYR:O	41:L4:230:VAL:HG22	2.13	0.49
42:L5:259:LYS:HG2	42:L5:260:PHE:CD2	2.48	0.49
47:M0:16:PRO:HG3	47:M0:128:ARG:NH1	2.28	0.49
49:M3:114:GLN:O	49:M3:118:GLU:HG3	2.13	0.49
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.12	0.49
58:N2:43:VAL:HB	58:N2:49:ASN:HB3	1.94	0.49
75:O9:28:ARG:HA	75:O9:33:ASN:ND2	2.28	0.49
79:Q3:11:THR:C	79:Q3:13:LYS:H	2.20	0.49
1:6:17:C:H2'	1:6:18:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:27:U:H2'	1:6:28:A:C8	2.48	0.49
1:6:542:A:H1'	1:6:543:C:OP1	2.12	0.49
4:s2:153:SER:OG	4:s2:195:ASP:O	2.21	0.49
7:s5:37:GLN:OE1	18:c6:53:LEU:HD22	2.13	0.49
20:c8:72:ILE:HG12	20:c8:79:TYR:CD1	2.48	0.49
25:d3:8:GLY:O	25:d3:11:SER:OG	2.26	0.49
27:d5:90:LYS:HG3	27:d5:91:PRO:HD2	1.94	0.49
34:sR:198:ASN:O	34:sR:215:GLY:HA3	2.12	0.49
36:5:120:G:N7	45:l8:128:LYS:HG3	2.28	0.49
36:5:365:A:H1'	41:l4:82:THR:OG1	2.13	0.49
36:5:1135:A:OP2	65:n9:5:LYS:NZ	2.45	0.49
36:5:1313:G:H2'	36:5:1314:C:H6	1.78	0.49
36:5:1614:C:H2'	36:5:1615:C:C6	2.47	0.49
36:5:1789:G:O6	85:5:4032:OHX:N1	2.46	0.49
85:5:3844:OHX:N5	85:7:219:OHX:N4	2.61	0.49
53:m7:30:ARG:HD3	53:m7:30:ARG:C	2.36	0.49
62:n6:120:GLN:CD	62:n6:126:LEU:HA	2.38	0.49
63:n7:46:ILE:HD11	63:n7:49:TYR:CD2	2.47	0.49
73:o7:65:ARG:HG3	73:o7:65:ARG:HH11	1.78	0.49
1:2:260:U:H5'	10:S8:41:LYS:HZ2	1.77	0.49
1:2:278:U:H4'	1:2:279:G:O5'	2.13	0.49
1:2:998:A:H2'	1:2:999:U:O4'	2.13	0.49
1:2:1385:G:N7	85:2:2090:OHX:N3	2.61	0.49
1:2:1474:G:H2'	1:2:1475:A:C8	2.48	0.49
1:2:1550:A:C6	1:2:1562:G:C6	3.01	0.49
2:S0:137:SER:HB3	2:S0:155:PHE:CD1	2.48	0.49
7:S5:73:THR:HG23	18:C6:114:ARG:HG3	1.95	0.49
8:S6:39:GLU:HB2	8:S6:46:LYS:HG3	1.95	0.49
11:S9:23:ARG:NH1	11:S9:27:GLU:OE2	2.41	0.49
34:SR:44:SER:O	34:SR:58:VAL:HG22	2.13	0.49
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.43	0.49
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.46	0.49
36:1:3317:U:H4'	36:1:3318:G:O5'	2.13	0.49
85:1:3836:OHX:N5	85:1:4008:OHX:N6	2.61	0.49
85:1:3880:OHX:N6	85:1:3916:OHX:N2	2.61	0.49
85:1:3964:OHX:N1	54:M8:146:SER:OG	2.46	0.49
39:L2:95:SER:OG	39:L2:97:ASN:OD1	2.30	0.49
39:L2:149:ARG:NH1	39:L2:155:LYS:HD3	2.28	0.49
42:L5:236:LEU:HD13	42:L5:239:ILE:HD12	1.94	0.49
45:L8:41:GLN:HG3	45:L8:44:ARG:NH1	2.28	0.49
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:72:LEU:HD22	50:M4:73:PRO:HD2	1.95	0.49
53:M7:169:THR:O	53:M7:173:ARG:HG2	2.12	0.49
66:O0:17:VAL:HG11	66:O0:92:ILE:HD12	1.94	0.49
69:O3:13:HIS:O	69:O3:95:GLY:N	2.32	0.49
1:6:138:A:N6	1:6:266:A:H61	2.11	0.49
1:6:530:C:O2	26:d4:61:ARG:NH2	2.46	0.49
1:6:978:A:H2'	1:6:979:A:O4'	2.13	0.49
1:6:1546:G:OP1	20:c8:123:ARG:NH1	2.46	0.49
85:6:2023:OHX:N1	85:6:2109:OHX:N3	2.60	0.49
4:s2:133:LYS:HA	4:s2:136:VAL:HG23	1.95	0.49
4:s2:139:ILE:HD12	4:s2:191:ALA:HB1	1.94	0.49
24:d2:42:GLN:NE2	24:d2:49:GLU:HA	2.28	0.49
35:sM:52:PRO:O	35:sM:54:PRO:HD3	2.12	0.49
36:5:665:A:H1'	49:m3:14:PHE:CZ	2.48	0.49
36:5:825:U:O4	85:5:3807:OHX:N6	2.46	0.49
36:5:916:G:O6	39:l2:207:VAL:HG11	2.12	0.49
36:5:976:U:H2'	36:5:977:C:O4'	2.12	0.49
36:5:1309:U:OP1	85:5:3999:OHX:N3	2.46	0.49
36:5:1390:A:H5'	36:5:1390:A:N3	2.28	0.49
36:5:1770:G:H5'	36:5:1771:C:OP2	2.13	0.49
36:5:3289:G:H2'	36:5:3290:G:C8	2.47	0.49
56:n0:137:ARG:HG2	56:n0:139:TYR:CZ	2.48	0.49
67:o1:29:ALA:HB3	67:o1:30:PRO:HD3	1.94	0.49
69:o3:47:LYS:HA	69:o3:104:PRO:HD2	1.94	0.49
1:2:217:A:OP1	1:2:217:A:H2'	2.13	0.48
1:2:1450:U:H2'	1:2:1451:C:C6	2.48	0.48
1:2:1517:U:OP2	1:2:1518:C:N4	2.46	0.48
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.47	0.48
5:S3:134:CYS:SG	5:S3:135:GLU:N	2.85	0.48
13:C1:21:ASN:HD22	13:C1:31:THR:HA	1.78	0.48
20:C8:41:ARG:NE	21:C9:46:PRO:HD3	2.28	0.48
36:1:1014:U:C2'	36:1:1015:U:H5''	2.43	0.48
36:1:1624:G:H1	36:1:1819:U:H3	1.61	0.48
36:1:1794:G:H4'	39:L2:191:LEU:HD13	1.94	0.48
36:1:2854:U:P	47:M0:3:ARG:HH22	2.36	0.48
36:1:3118:C:H4'	76:Q0:106:ARG:HH22	1.78	0.48
85:1:3836:OHX:N1	85:1:4008:OHX:N2	2.61	0.48
53:M7:116:HIS:HB3	53:M7:149:VAL:HB	1.94	0.48
68:O2:11:LYS:O	68:O2:13:HIS:N	2.40	0.48
72:O6:97:SER:O	72:O6:99:ARG:N	2.45	0.48
1:6:826:U:O4	85:6:2029:OHX:N3	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1255:G:H4'	1:6:1256:A:OP1	2.12	0.48
85:6:2087:OHX:N3	13:c1:18:HIS:O	2.46	0.48
5:s3:70:THR:HG22	5:s3:86:LEU:HB2	1.95	0.48
11:s9:134:ILE:HD12	11:s9:134:ILE:N	2.28	0.48
36:5:316:U:O2	72:o6:30:LYS:HG2	2.12	0.48
36:5:1373:A:H2'	36:5:1374:G:C8	2.48	0.48
36:5:2533:G:H2'	36:5:2534:G:C8	2.48	0.48
37:7:23:A:C6	37:7:24:A:C6	3.00	0.48
39:l2:112:ILE:HG22	39:l2:135:ILE:HG23	1.95	0.48
41:l4:230:VAL:C	41:l4:232:SER:H	2.21	0.48
54:m8:44:PHE:CZ	54:m8:82:VAL:HG21	2.48	0.48
59:n3:25:CYS:HB3	59:n3:31:ALA:O	2.13	0.48
68:o2:123:LYS:HG2	68:o2:126:LEU:HD12	1.95	0.48
1:2:399:A:H4'	6:S4:3:ARG:HG2	1.96	0.48
1:2:1400:A:H4'	19:C7:60:ARG:HH22	1.78	0.48
9:S7:50:ASP:OD1	9:S7:50:ASP:N	2.41	0.48
11:S9:110:GLN:HA	11:S9:129:ILE:HD11	1.94	0.48
36:1:291:C:OP1	51:M5:68:ARG:HB3	2.12	0.48
36:1:742:G:O6	85:1:3835:OHX:N1	2.46	0.48
36:1:900:G:H1'	36:1:1589:A:H61	1.78	0.48
36:1:2320:A:C2	79:Q3:16:VAL:HG12	2.48	0.48
36:1:2601:A:H2'	36:1:2602:G:C8	2.48	0.48
38:4:87:G:O2'	38:4:88:A:OP2	2.30	0.48
40:L3:117:ARG:HA	40:L3:175:LYS:HG3	1.94	0.48
41:L4:338:LYS:HD2	41:L4:338:LYS:HA	1.40	0.48
42:L5:184:ASP:OD1	42:L5:187:THR:HG22	2.12	0.48
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.48	0.48
48:M1:34:SER:HB2	48:M1:67:VAL:HG11	1.94	0.48
60:N4:50:ALA:HA	60:N4:55:PHE:CD1	2.48	0.48
68:O2:121:ASN:N	68:O2:121:ASN:OD1	2.45	0.48
70:O4:98:GLN:HA	70:O4:101:VAL:HG23	1.94	0.48
76:Q0:97:ARG:HB2	76:Q0:120:GLN:O	2.13	0.48
77:Q1:6:ARG:HA	77:Q1:9:ARG:HB2	1.95	0.48
1:6:424:C:O2'	1:6:426:G:OP1	2.30	0.48
1:6:542:A:N1	32:e0:28:LYS:HD2	2.28	0.48
1:6:1159:C:N3	85:6:2099:OHX:N5	2.62	0.48
1:6:1227:A:O2'	14:c2:44:GLY:HA3	2.13	0.48
6:s4:139:VAL:HG13	6:s4:150:PRO:HG3	1.94	0.48
6:s4:184:THR:C	6:s4:189:LEU:HD13	2.38	0.48
7:s5:23:VAL:O	7:s5:34:GLN:NE2	2.45	0.48
8:s6:52:ILE:HD13	8:s6:102:VAL:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:45:ARG:O	18:c6:48:VAL:HG12	2.13	0.48
18:c6:97:VAL:HG12	18:c6:98:ASP:H	1.78	0.48
29:d7:41:LEU:HD23	29:d7:41:LEU:H	1.78	0.48
36:5:180:C:H2'	36:5:181:U:H6	1.78	0.48
36:5:541:U:O4	85:5:3856:OHX:N3	2.46	0.48
36:5:650:C:H2'	36:5:651:G:C8	2.48	0.48
36:5:1573:G:C5	36:5:1574:C:H1'	2.48	0.48
36:5:1952:G:H1	36:5:2094:C:H42	1.61	0.48
36:5:2439:A:OP1	36:5:2439:A:H4'	2.12	0.48
36:5:2513:U:HO2'	36:5:2592:G:H1	1.58	0.48
36:5:2785:A:H4'	78:q2:41:ARG:HH21	1.78	0.48
36:5:2815:G:H5''	36:5:2816:G:OP2	2.13	0.48
36:5:2989:U:O2'	40:l3:232:ARG:NH2	2.46	0.48
36:5:3139:A:H4'	40:l3:20:LYS:HD3	1.95	0.48
36:5:3281:U:C4	36:5:3282:U:C4	3.01	0.48
36:5:3308:C:O2	53:m7:69:ARG:HD3	2.11	0.48
41:l4:269:SER:C	41:l4:271:LYS:H	2.21	0.48
42:l5:187:THR:HG22	42:l5:189:GLU:HB2	1.94	0.48
69:o3:16:TYR:CD2	69:o3:25:PRO:HA	2.49	0.48
1:2:639:U:H5''	9:S7:101:LYS:HB2	1.96	0.48
1:2:694:U:H3	9:S7:98:ILE:HD12	1.77	0.48
1:2:848:C:H2'	1:2:849:C:H6	1.77	0.48
1:2:1132:A:H2'	1:2:1133:A:H8	1.78	0.48
1:2:1168:U:OP1	85:2:2075:OHX:N2	2.46	0.48
1:2:1253:U:H5''	33:E1:130:VAL:HB	1.95	0.48
21:C9:117:SER:HB2	21:C9:123:ARG:CB	2.44	0.48
24:D2:122:SER:OG	24:D2:123:GLY:N	2.39	0.48
27:D5:43:ASP:HB2	27:D5:46:LYS:HD2	1.94	0.48
28:D6:18:VAL:HG11	28:D6:33:ASP:HB3	1.95	0.48
34:SR:29:GLN:C	34:SR:31:ASN:H	2.21	0.48
36:1:549:U:H2'	36:1:550:A:H8	1.78	0.48
36:1:1063:G:N7	36:1:1097:G:H2'	2.29	0.48
36:1:1445:U:H5''	36:1:1446:A:OP2	2.12	0.48
36:1:1889:G:OP1	40:L3:247:ARG:HG3	2.14	0.48
36:1:1940:G:OP1	55:M9:75:HIS:ND1	2.44	0.48
36:1:2232:A:OP2	85:1:3904:OHX:N5	2.46	0.48
36:1:2416:U:H2'	36:1:2417:U:C6	2.49	0.48
36:1:2850:G:O6	85:1:3935:OHX:N6	2.46	0.48
36:1:3218:A:H4'	36:1:3219:G:O5'	2.13	0.48
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.48	0.48
46:L9:75:VAL:HA	46:L9:78:MET:HE3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:122:VAL:O	50:M4:125:LYS:HG2	2.13	0.48
54:M8:154:GLY:O	54:M8:159:LYS:NZ	2.46	0.48
68:O2:32:TRP:CE2	68:O2:53:PRO:HD2	2.49	0.48
1:6:282:C:H2'	1:6:283:U:O4'	2.13	0.48
1:6:491:C:N4	1:6:497:G:H21	2.09	0.48
1:6:493:U:H2'	1:6:494:U:H5''	1.95	0.48
1:6:922:G:H2'	1:6:923:A:H8	1.78	0.48
3:s1:119:THR:HB	3:s1:143:THR:HG23	1.94	0.48
8:s6:27:PHE:HB3	8:s6:102:VAL:HG11	1.96	0.48
19:c7:89:SER:O	19:c7:95:ARG:NH1	2.46	0.48
34:sR:115:ILE:HG13	34:sR:122:ILE:HG12	1.96	0.48
36:5:333:G:H1	38:8:30:C:H42	1.61	0.48
36:5:400:G:H4'	36:5:401:U:O5'	2.13	0.48
36:5:992:A:O2'	36:5:993:G:H5'	2.13	0.48
36:5:1355:A:H1'	36:5:1356:U:OP2	2.13	0.48
36:5:1489:A:OP1	70:o4:10:ARG:NH1	2.41	0.48
36:5:1808:G:O6	85:5:3868:OHX:N3	2.46	0.48
36:5:3106:A:H2'	36:5:3107:U:O4'	2.13	0.48
36:5:3287:U:N3	36:5:3288:G:N7	2.62	0.48
85:5:3877:OHX:N1	85:5:3923:OHX:N4	2.61	0.48
40:l3:90:VAL:HG13	40:l3:104:THR:HG23	1.94	0.48
46:l9:91:ARG:HG2	46:l9:182:SER:HB3	1.95	0.48
59:n3:87:ARG:HH12	59:n3:137:VAL:CG1	2.26	0.48
61:n5:80:ASN:ND2	61:n5:126:LEU:O	2.44	0.48
64:n8:2:PRO:HG2	64:n8:5:PHE:CD2	2.49	0.48
69:o3:40:ASP:O	69:o3:42:GLN:N	2.46	0.48
81:p0:37:GLN:O	81:p0:41:VAL:HG23	2.14	0.48
1:2:105:A:OP1	10:S8:18:ARG:NH1	2.47	0.48
1:2:373:G:N7	85:2:2116:OHX:N6	2.61	0.48
3:S1:71:ALA:HB2	3:S1:79:HIS:C	2.38	0.48
9:S7:173:TYR:CE2	9:S7:177:THR:HG21	2.47	0.48
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	2.49	0.48
23:D1:1:MET:HE2	23:D1:13:VAL:HG22	1.95	0.48
25:D3:48:HIS:CD2	25:D3:105:ALA:HB2	2.48	0.48
36:1:422:A:C2	36:1:2363:A:H4'	2.49	0.48
36:1:733:G:O2'	36:1:735:A:N6	2.39	0.48
36:1:1902:G:C6	36:1:1903:U:C2	3.02	0.48
36:1:2989:U:O2'	40:L3:267:ALA:O	2.21	0.48
36:1:3019:U:O4	85:1:3849:OHX:N4	2.46	0.48
36:1:3112:G:O6	36:1:3120:C:H5''	2.14	0.48
36:1:3165:A:H2'	36:1:3166:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3282:U:H2'	36:1:3283:U:H6	1.78	0.48
52:M6:19:LEU:O	52:M6:23:VAL:HG23	2.14	0.48
53:M7:125:GLN:HB2	53:M7:141:SER:HB2	1.94	0.48
68:O2:34:LYS:HG3	68:O2:35:GLN:N	2.29	0.48
1:6:27:U:H2'	1:6:28:A:H8	1.78	0.48
1:6:753:A:H62	6:s4:187:ARG:NH2	2.12	0.48
1:6:1511:U:H2'	1:6:1512:G:C8	2.48	0.48
1:6:1531:G:H2'	1:6:1532:U:C6	2.49	0.48
2:s0:172:LEU:HD22	2:s0:176:LEU:HG	1.95	0.48
6:s4:141:THR:OG1	6:s4:145:ARG:HB2	2.13	0.48
9:s7:51:VAL:HG23	9:s7:53:GLY:H	1.79	0.48
12:c0:24:LYS:HB2	12:c0:63:TYR:CE1	2.49	0.48
18:c6:131:GLY:HA3	18:c6:136:SER:O	2.14	0.48
34:sR:193:ILE:H	34:sR:193:ILE:HD12	1.79	0.48
36:5:1327:C:O2'	69:o3:76:GLY:HA2	2.13	0.48
36:5:2425:G:H2'	36:5:2426:U:O4'	2.13	0.48
36:5:2655:U:H2'	78:q2:3:ASN:O	2.13	0.48
41:l4:178:LEU:O	41:l4:182:LEU:HD23	2.13	0.48
41:l4:269:SER:O	41:l4:269:SER:OG	2.31	0.48
42:l5:120:LYS:O	42:l5:248:ARG:NH2	2.46	0.48
47:m0:56:GLU:HB2	47:m0:58:GLU:OE1	2.12	0.48
48:m1:9:MET:O	48:m1:11:ASP:N	2.46	0.48
51:m5:8:GLU:O	51:m5:12:ARG:HD2	2.12	0.48
56:n0:40:ARG:HA	56:n0:40:ARG:HD2	1.61	0.48
60:n4:112:ASN:HA	60:n4:115:LYS:HG3	1.95	0.48
61:n5:40:LEU:HB3	61:n5:41:ALA:H	1.38	0.48
72:o6:9:ILE:HD13	72:o6:10:GLY:N	2.28	0.48
1:2:42:G:H4'	1:2:43:A:O5'	2.13	0.48
1:2:1682:U:O2'	1:2:1683:C:H5'	2.13	0.48
2:S0:113:ARG:C	2:S0:115:PHE:H	2.21	0.48
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.79	0.48
7:S5:32:GLU:OE2	7:S5:33:VAL:HG23	2.13	0.48
36:1:79:U:OP2	85:1:3779:OHX:N5	2.47	0.48
36:1:763:G:H2'	36:1:764:U:O4'	2.14	0.48
36:1:1874:A:N7	55:M9:20:ARG:NH1	2.62	0.48
36:1:2899:C:H41	46:L9:172:ILE:HG23	1.79	0.48
37:3:22:A:H1'	42:L5:272:TYR:CE1	2.48	0.48
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.46	0.48
48:M1:131:MET:O	48:M1:154:THR:HG21	2.14	0.48
59:N3:40:LYS:HG3	59:N3:57:MET:HE2	1.96	0.48
63:N7:86:THR:OG1	63:N7:87:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:6:THR:CG2	64:N8:8:THR:HG23	2.41	0.48
64:N8:86:LYS:O	64:N8:89:GLN:HB3	2.14	0.48
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.14	0.48
74:O8:62:ALA:O	74:O8:66:ILE:HG13	2.14	0.48
2:s0:84:ARG:HE	2:s0:88:LYS:NZ	2.10	0.48
22:d0:34:LEU:HD21	22:d0:89:ARG:NH1	2.29	0.48
25:d3:132:LEU:HD23	25:d3:132:LEU:HA	1.59	0.48
36:5:118:U:O2	36:5:121:A:H5'	2.13	0.48
36:5:507:U:H2'	36:5:508:U:C6	2.48	0.48
36:5:652:G:P	85:5:4007:OHX:N6	2.86	0.48
36:5:1597:C:OP1	70:o4:8:ARG:NH2	2.46	0.48
36:5:1741:A:H4'	70:o4:38:LEU:HD23	1.94	0.48
36:5:2426:U:H2'	36:5:2427:U:C6	2.48	0.48
36:5:2799:A:H1'	64:n8:42:ARG:NH2	2.29	0.48
36:5:2878:G:OP1	40:l3:5:LYS:HE3	2.13	0.48
36:5:2988:C:O2	40:l3:266:ARG:NH1	2.46	0.48
36:5:3151:U:H4'	36:5:3294:A:H1'	1.95	0.48
85:5:3848:OHX:N5	55:m9:87:ALA:O	2.46	0.48
38:8:26:U:H2'	38:8:27:U:C6	2.49	0.48
38:8:154:C:O2'	45:l8:185:ARG:HG3	2.12	0.48
39:l2:80:GLU:CD	79:q3:66:GLY:HA2	2.39	0.48
46:l9:87:LYS:HZ1	46:l9:191:LEU:HD21	1.78	0.48
54:m8:176:ARG:NH1	64:n8:46:ASP:OD2	2.46	0.48
59:n3:87:ARG:HH12	59:n3:137:VAL:HG11	1.78	0.48
64:n8:82:ILE:HD11	64:n8:102:ILE:HG12	1.94	0.48
64:n8:119:PRO:C	64:n8:121:VAL:H	2.21	0.48
81:p0:79:PHE:CE1	81:p0:189:GLN:HG3	2.49	0.48
1:2:1:U:C4	11:S9:54:ARG:HG3	2.49	0.48
1:2:138:A:N6	1:2:266:A:H61	2.12	0.48
1:2:286:C:H2'	1:2:287:G:H5'	1.95	0.48
1:2:322:G:OP1	85:2:2050:OHX:N4	2.46	0.48
1:2:870:C:H2'	1:2:871:G:C8	2.49	0.48
1:2:938:G:N7	85:2:2046:OHX:N6	2.62	0.48
1:2:1035:G:O6	85:2:2111:OHX:N4	2.47	0.48
1:2:1291:G:H22	1:2:1324:G:N2	2.11	0.48
1:2:1312:A:N7	19:C7:2:GLY:HA3	2.28	0.48
2:S0:4:PRO:HG3	23:D1:39:VAL:HG21	1.94	0.48
3:S1:114:VAL:HG13	3:S1:120:LEU:HD12	1.96	0.48
9:S7:73:VAL:O	9:S7:75:THR:N	2.39	0.48
28:D6:66:LYS:HB2	28:D6:68:TYR:CE1	2.49	0.48
36:1:1004:U:C4	36:1:1005:G:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1814:A:OP1	85:1:3950:OHX:N2	2.47	0.48
36:1:2373:A:H3'	36:1:2373:A:OP2	2.13	0.48
85:1:3940:OHX:N4	85:1:4004:OHX:N1	2.62	0.48
38:4:150:G:OP1	61:N5:27:ARG:NH2	2.44	0.48
47:M0:176:LEU:HD22	47:M0:180:GLU:HG3	1.95	0.48
55:M9:108:LYS:HA	55:M9:111:ASP:HB2	1.94	0.48
58:N2:67:SER:OG	58:N2:68:THR:N	2.46	0.48
63:N7:23:VAL:HB	63:N7:43:VAL:HB	1.95	0.48
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	1.95	0.48
2:s0:120:LEU:HD12	2:s0:121:VAL:H	1.79	0.48
5:s3:143:ARG:HE	5:s3:143:ARG:HB3	1.54	0.48
7:s5:61:TYR:HE2	7:s5:164:PRO:HG2	1.79	0.48
10:s8:4:SER:OG	10:s8:6:ASP:OD2	2.23	0.48
12:c0:73:VAL:O	12:c0:77:ARG:HG3	2.13	0.48
27:d5:49:ARG:O	27:d5:53:GLU:HB2	2.13	0.48
28:d6:62:TYR:CG	28:d6:63:ALA:N	2.81	0.48
36:5:1024:G:N7	36:5:1027:A:N6	2.62	0.48
36:5:1786:G:H2'	36:5:1787:A:C8	2.48	0.48
36:5:3289:G:H2'	36:5:3290:G:H8	1.78	0.48
37:7:3:U:H2'	37:7:4:U:H6	1.79	0.48
42:l5:60:ILE:HB	42:l5:80:SER:HB3	1.95	0.48
46:l9:93:VAL:HG22	76:q0:82:LEU:HD13	1.95	0.48
73:o7:14:LYS:HD2	75:o9:51:ILE:HD11	1.94	0.48
1:2:94:U:H2'	1:2:95:G:O4'	2.14	0.48
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.42	0.48
1:2:190:C:O2'	1:2:191:C:H5'	2.12	0.48
1:2:1592:A:H2'	1:2:1593:A:H8	1.79	0.48
1:2:1767:G:P	1:2:1770:U:H4'	2.54	0.48
2:S0:83:GLN:HG2	2:S0:99:ALA:HB1	1.96	0.48
5:S3:150:MET:HB3	5:S3:152:PHE:CE2	2.48	0.48
14:C2:67:THR:C	14:C2:69:ALA:H	2.21	0.48
22:D0:57:ARG:HG3	22:D0:89:ARG:NE	2.29	0.48
36:1:1597:C:H42	36:1:1610:G:H1	1.62	0.48
38:4:125:U:O2	38:4:125:U:H2'	2.13	0.48
39:L2:177:LYS:HE2	79:Q3:69:TYR:CE1	2.48	0.48
39:L2:204:MET:HE3	39:L2:208:ASP:HB3	1.96	0.48
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	1.95	0.48
47:M0:73:ASN:O	47:M0:77:THR:HG23	2.13	0.48
59:N3:86:ARG:HB2	59:N3:92:PHE:CE1	2.48	0.48
70:O4:21:LYS:HD2	70:O4:23:VAL:HG22	1.94	0.48
1:6:417:A:H4'	1:6:418:G:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:780:A:H3'	1:6:781:U:H5'	1.96	0.48
1:6:1273:G:H4'	1:6:1274:C:H5''	1.95	0.48
9:s7:143:LEU:HB2	9:s7:147:ASN:O	2.14	0.48
36:5:119:U:H4'	36:5:120:G:H3'	1.96	0.48
36:5:712:G:H2'	36:5:713:U:C6	2.48	0.48
36:5:996:A:H2'	36:5:997:A:O4'	2.13	0.48
36:5:1481:A:N3	36:5:1481:A:H2'	2.27	0.48
36:5:2221:G:N2	36:5:2224:A:OP2	2.38	0.48
36:5:3357:U:O2'	36:5:3358:U:OP1	2.30	0.48
38:8:2:A:H3'	38:8:3:A:H8	1.78	0.48
47:m0:210:ILE:HA	47:m0:217:PHE:HE2	1.78	0.48
1:2:1338:C:H1'	1:2:1410:A:C4	2.48	0.48
1:2:1766:A:H5''	85:2:2051:OHX:N3	2.28	0.48
7:S5:57:SER:C	7:S5:59:VAL:H	2.18	0.48
26:D4:92:VAL:HG21	26:D4:99:LYS:HG2	1.96	0.48
34:SR:172:ALA:HB2	34:SR:202:LEU:HD13	1.95	0.48
36:1:2366:C:H2'	36:1:2367:A:H8	1.78	0.48
36:1:2726:C:OP1	85:1:3987:OHX:N3	2.47	0.48
40:L3:82:PRO:HG3	40:L3:319:ASN:ND2	2.29	0.48
41:L4:269:SER:O	41:L4:269:SER:OG	2.25	0.48
41:L4:299:ILE:HG22	41:L4:300:ARG:O	2.13	0.48
42:L5:109:THR:OG1	42:L5:110:LEU:N	2.46	0.48
45:L8:65:LEU:C	45:L8:67:ILE:H	2.22	0.48
45:L8:94:PHE:CE2	45:L8:200:LEU:HG	2.49	0.48
47:M0:33:ILE:HD11	47:M0:69:ARG:CZ	2.44	0.48
48:M1:96:PHE:CD1	48:M1:102:PHE:HB3	2.49	0.48
1:6:891:A:H2'	1:6:892:A:C8	2.49	0.48
1:6:1499:G:C6	1:6:1500:C:C4	3.02	0.48
1:6:1572:G:H1'	7:s5:185:ARG:HH12	1.77	0.48
7:s5:35:GLN:O	7:s5:37:GLN:N	2.46	0.48
8:s6:55:GLY:HA3	8:s6:63:MET:HE3	1.96	0.48
36:5:998:A:O2'	36:5:999:G:H5'	2.14	0.48
51:m5:97:SER:O	51:m5:100:ALA:N	2.44	0.48
58:n2:42:LYS:HA	58:n2:46:ALA:O	2.14	0.48
71:o5:86:ARG:HG3	71:o5:90:ARG:NH2	2.29	0.48
81:p0:198:PRO:HG2	81:p0:201:ILE:H	1.78	0.48
1:2:329:G:H2'	1:2:330:G:C8	2.48	0.48
1:2:1123:C:H2'	1:2:1124:A:O4'	2.14	0.48
1:2:1248:C:H2'	1:2:1249:U:H6	1.78	0.48
1:2:1504:G:C6	1:2:1505:A:C6	3.01	0.48
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:111:ARG:HB3	28:D6:68:TYR:HD2	1.77	0.48
9:S7:76:LYS:HA	9:S7:79:ARG:HD2	1.96	0.48
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.46	0.48
24:D2:104:LEU:HB2	24:D2:125:ILE:HA	1.95	0.48
27:D5:64:VAL:O	27:D5:68:ARG:HG2	2.14	0.48
29:D7:34:ASP:O	29:D7:79:PHE:HA	2.14	0.48
36:1:1065:A:H1'	65:N9:28:LYS:HE3	1.95	0.48
36:1:1591:G:O2'	36:1:1799:A:N1	2.36	0.48
36:1:1629:U:OP1	63:N7:112:LYS:NZ	2.43	0.48
42:L5:67:SER:HA	42:L5:72:ASP:HA	1.95	0.48
48:M1:166:LYS:HD3	48:M1:167:TYR:CD1	2.49	0.48
53:M7:26:PHE:CE1	53:M7:120:ASN:HA	2.49	0.48
66:O0:95:ALA:HB2	66:O0:101:LEU:HD23	1.94	0.48
75:O9:5:LYS:HD3	75:O9:13:MET:HE1	1.94	0.48
75:O9:48:LYS:O	85:O9:101:OHX:N2	2.46	0.48
1:6:4:C:P	4:s2:200:SER:HG	2.36	0.48
1:6:570:A:H5''	1:6:571:G:OP2	2.13	0.48
1:6:700:C:H2'	1:6:701:U:C6	2.49	0.48
1:6:1518:C:OP2	85:6:2105:OHX:N1	2.47	0.48
1:6:1681:A:H8	8:s6:65:GLN:HG3	1.79	0.48
2:s0:55:GLU:OE2	23:d1:80:LYS:N	2.29	0.48
2:s0:179:ARG:HD3	2:s0:183:ARG:NE	2.29	0.48
9:s7:73:VAL:O	9:s7:75:THR:N	2.46	0.48
10:s8:76:THR:HG22	10:s8:105:ASP:HB3	1.95	0.48
19:c7:47:ARG:NH1	19:c7:48:ASN:OD1	2.41	0.48
20:c8:145:ARG:HG3	35:sM:68:ARG:NH2	2.26	0.48
34:sR:90:ARG:HG2	34:sR:102:ARG:HG2	1.94	0.48
36:5:1152:G:N2	36:5:1200:A:H61	2.12	0.48
36:5:1212:A:OP1	46:l9:1:MET:HB3	2.13	0.48
36:5:1947:G:H5'	55:m9:134:HIS:CD2	2.49	0.48
36:5:2201:G:H2'	36:5:2202:C:C6	2.49	0.48
36:5:2310:U:OP1	85:5:4035:OHX:N2	2.47	0.48
38:8:83:C:C4'	38:8:85:G:H21	2.27	0.48
46:l9:163:GLN:O	46:l9:166:ARG:HG3	2.12	0.48
49:m3:168:ARG:NH2	49:m3:172:LEU:HD21	2.29	0.48
55:m9:90:PRO:HG2	55:m9:93:VAL:CG2	2.43	0.48
66:o0:12:GLN:O	66:o0:15:ALA:HB3	2.13	0.48
68:o2:6:HIS:ND1	68:o2:6:HIS:O	2.47	0.48
79:q3:56:THR:HB	79:q3:63:THR:OG1	2.14	0.48
1:2:304:U:H2'	1:2:305:C:H6	1.79	0.48
1:2:740:A:C2'	1:2:741:C:H5''	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:932:U:H4'	1:2:933:A:O4'	2.14	0.48
1:2:1196:A:C8	1:2:1602:C:H4'	2.48	0.48
4:S2:121:VAL:HG11	35:SM:117:LEU:HB2	1.96	0.48
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.13	0.48
33:E1:133:ALA:O	33:E1:139:LEU:HA	2.13	0.48
34:SR:192:PHE:HD1	34:SR:223:TRP:CD2	2.32	0.48
36:1:664:U:H5'	41:L4:107:ARG:HA	1.96	0.48
36:1:984:G:C8	65:N9:17:HIS:CD2	3.01	0.48
36:1:1306:G:O2'	36:1:1307:G:H5''	2.14	0.48
36:1:2103:U:H2'	36:1:2104:A:H8	1.79	0.48
36:1:2616:C:H2'	36:1:2617:U:H5'	1.96	0.48
36:1:2808:A:H4'	36:1:2809:C:O5'	2.14	0.48
36:1:3185:U:O2	56:N0:169:SER:HA	2.13	0.48
36:1:3255:U:H2'	36:1:3256:G:C8	2.49	0.48
36:1:3269:U:H4'	36:1:3270:U:O5'	2.13	0.48
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.47	0.48
38:4:62:C:H4'	38:4:63:G:O5'	2.14	0.48
38:4:154:C:H2'	38:4:155:A:O4'	2.13	0.48
39:L2:112:ILE:HD12	79:Q3:79:VAL:HG22	1.95	0.48
41:L4:157:GLU:OE2	41:L4:251:THR:OG1	2.25	0.48
46:L9:75:VAL:HA	46:L9:78:MET:CE	2.44	0.48
49:M3:89:TYR:O	49:M3:92:THR:OG1	2.31	0.48
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.49	0.48
57:N1:50:LYS:HB3	57:N1:92:ARG:NH1	2.28	0.48
62:N6:40:ARG:HG2	62:N6:45:ILE:O	2.14	0.48
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	2.26	0.48
67:O1:72:ARG:O	67:O1:96:VAL:HG13	2.14	0.48
1:6:482:U:H3	1:6:505:A:N6	2.10	0.48
1:6:1140:G:OP2	85:6:2035:OHX:N3	2.47	0.48
1:6:1561:U:H4'	1:6:1599:C:H4'	1.95	0.48
1:6:1696:G:H2'	1:6:1698:G:O6	2.13	0.48
3:s1:206:PRO:O	3:s1:207:LEU:HB2	2.13	0.48
16:c4:64:ALA:HB1	16:c4:105:LEU:HD23	1.96	0.48
19:c7:95:ARG:HB2	19:c7:96:SER:HA	1.95	0.48
34:sR:108:SER:OG	34:sR:109:ASP:N	2.46	0.48
36:5:65:A:H4'	36:5:66:A:O5'	2.13	0.48
36:5:585:A:H2'	36:5:586:C:C6	2.49	0.48
36:5:1236:G:N2	36:5:1244:A:OP1	2.46	0.48
36:5:1519:G:H2'	36:5:1520:G:H8	1.79	0.48
36:5:1594:A:H1'	36:5:1615:C:H1'	1.96	0.48
36:5:2249:G:OP1	85:5:4035:OHX:N6	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2424:A:N1	39:l2:230:VAL:HG21	2.29	0.48
36:5:3284:G:OP2	36:5:3284:G:H8	1.97	0.48
37:7:64:A:C6	47:m0:202:LYS:HG2	2.49	0.48
43:l6:43:LEU:HD21	43:l6:85:ILE:HG13	1.96	0.48
58:n2:18:ASP:HB3	58:n2:104:ARG:HA	1.96	0.48
58:n2:47:VAL:O	58:n2:49:ASN:N	2.47	0.48
75:o9:26:TRP:HA	75:o9:29:LEU:HD23	1.95	0.48
1:2:229:U:H2'	1:2:230:C:H6	1.79	0.47
1:2:926:A:H1'	1:2:988:A:C2	2.48	0.47
1:2:1098:U:C5	4:S2:224:PHE:HE2	2.32	0.47
1:2:1132:A:OP1	25:D3:30:LYS:NZ	2.35	0.47
1:2:1388:A:H5''	19:C7:48:ASN:ND2	2.29	0.47
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.39	0.47
12:C0:11:ILE:HD13	12:C0:35:ILE:HG21	1.95	0.47
34:SR:52:GLN:OE1	34:SR:53:LYS:HG2	2.14	0.47
36:1:317:A:C2	36:1:318:A:C4	3.01	0.47
36:1:440:A:OP2	36:1:440:A:H8	1.96	0.47
36:1:1253:U:H3	36:1:1263:A:H3'	1.79	0.47
36:1:1323:G:H5'	56:N0:1:MET:N	2.29	0.47
36:1:1742:U:H2'	36:1:1743:G:C8	2.49	0.47
36:1:3190:C:H2'	36:1:3191:G:H8	1.79	0.47
36:1:3389:U:HO2'	36:1:3390:G:P	2.36	0.47
85:1:3912:OHX:N6	85:1:4012:OHX:N4	2.62	0.47
39:L2:177:LYS:HB2	79:Q3:29:LEU:HD13	1.96	0.47
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.44	0.47
54:M8:150:VAL:HA	54:M8:153:PHE:CD1	2.49	0.47
57:N1:38:ASP:O	57:N1:64:VAL:HG23	2.14	0.47
58:N2:89:LEU:HD22	58:N2:93:ILE:HD11	1.96	0.47
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	1.96	0.47
1:6:845:G:H2'	1:6:846:G:C8	2.44	0.47
1:6:922:G:H2'	1:6:923:A:C8	2.49	0.47
1:6:1235:C:H5'	33:e1:146:SER:HB2	1.95	0.47
1:6:1681:A:H2	1:6:1720:G:H21	1.62	0.47
1:6:1796:C:OP1	28:d6:87:ARG:NH1	2.46	0.47
6:s4:212:ASP:C	6:s4:214:LEU:H	2.22	0.47
19:c7:29:GLN:HB3	34:sR:85:TRP:HZ3	1.78	0.47
36:5:230:U:H2'	36:5:231:G:O4'	2.13	0.47
36:5:264:G:O6	85:5:4066:OHX:N2	2.47	0.47
36:5:283:G:O6	36:5:304:G:H1'	2.13	0.47
36:5:510:G:O6	85:5:3867:OHX:N2	2.47	0.47
36:5:999:G:H2'	36:5:1000:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1728:G:O2'	66:o0:87:VAL:HB	2.14	0.47
41:l4:264:SER:OG	41:l4:267:VAL:HG12	2.14	0.47
45:l8:78:PHE:C	45:l8:80:TYR:H	2.22	0.47
46:l9:12:VAL:HB	46:l9:51:GLN:HA	1.95	0.47
71:o5:21:LEU:HA	71:o5:24:LEU:HD12	1.95	0.47
73:o7:28:HIS:CE1	73:o7:31:LYS:HE2	2.49	0.47
81:p0:56:ASN:HB3	81:p0:60:ARG:NH2	2.29	0.47
1:2:1107:G:O2'	1:2:1108:G:H5'	2.14	0.47
1:2:1229:G:OP1	33:E1:101:ALA:HA	2.14	0.47
1:2:1253:U:H4'	33:E1:143:LYS:N	2.30	0.47
85:2:2054:OHX:N4	85:2:2068:OHX:N2	2.62	0.47
2:S0:35:PRO:C	2:S0:37:VAL:H	2.21	0.47
17:C5:114:HIS:ND1	17:C5:118:GLU:OE1	2.41	0.47
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.95	0.47
19:C7:5:ARG:N	19:C7:5:ARG:HD3	2.30	0.47
28:D6:88:SER:OG	28:D6:89:ARG:N	2.45	0.47
29:D7:34:ASP:HB3	29:D7:43:ILE:HD12	1.96	0.47
36:1:437:G:O2'	36:1:438:A:H5'	2.14	0.47
36:1:2505:U:H2'	36:1:2506:U:C6	2.48	0.47
36:1:3186:A:O2'	46:L9:42:ASP:HA	2.14	0.47
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.14	0.47
45:L8:162:LEU:HD23	51:M5:7:LEU:HD11	1.96	0.47
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	2.49	0.47
52:M6:10:ASP:HA	52:M6:36:VAL:HG23	1.95	0.47
68:O2:124:GLY:C	68:O2:126:LEU:H	2.22	0.47
1:6:68:A:OP1	8:s6:160:ARG:NH2	2.35	0.47
1:6:683:C:H3'	1:6:684:A:H5''	1.94	0.47
1:6:938:G:N2	1:6:941:A:OP2	2.38	0.47
1:6:1125:A:O2'	1:6:1776:A:OP1	2.30	0.47
1:6:1331:A:OP1	19:c7:45:ARG:NH2	2.44	0.47
2:s0:147:THR:O	2:s0:161:PRO:HA	2.14	0.47
4:s2:228:ASN:ND2	4:s2:228:ASN:H	2.11	0.47
9:s7:173:TYR:HE1	9:s7:179:LYS:HB2	1.79	0.47
11:s9:39:LYS:HB3	11:s9:43:TYR:CE2	2.48	0.47
14:c2:42:ALA:HB2	14:c2:124:LYS:HD2	1.96	0.47
19:c7:24:LEU:HB2	19:c7:58:MET:HE3	1.95	0.47
34:sR:38:ARG:HG2	34:sR:67:ILE:HG23	1.95	0.47
36:5:8:C:H2'	36:5:9:U:O4'	2.14	0.47
36:5:622:A:H2'	36:5:623:U:O4'	2.13	0.47
36:5:2101:C:H2'	36:5:2102:U:C6	2.49	0.47
37:7:1:G:C2	37:7:2:G:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:15:G:C6	38:8:16:G:N1	2.83	0.47
38:8:111:A:H3'	38:8:112:U:H5'	1.96	0.47
42:15:61:ILE:HG23	42:15:79:TYR:CE1	2.49	0.47
44:17:123:THR:O	44:17:126:LEU:HB2	2.13	0.47
52:m6:128:ARG:HD2	52:m6:128:ARG:HA	1.63	0.47
53:m7:30:ARG:HA	53:m7:119:VAL:CG1	2.40	0.47
53:m7:141:SER:O	53:m7:143:PRO:HD3	2.14	0.47
55:m9:138:LEU:O	55:m9:138:LEU:HD22	2.14	0.47
72:o6:40:VAL:O	72:o6:44:VAL:HG23	2.13	0.47
76:q0:106:ARG:HB2	76:q0:106:ARG:NH1	2.24	0.47
1:2:511:A:N6	1:2:539:G:O6	2.47	0.47
1:2:720:G:H1'	1:2:721:U:C5'	2.44	0.47
1:2:891:A:H2'	1:2:892:A:C8	2.49	0.47
1:2:1147:A:H2'	1:2:1148:C:C6	2.49	0.47
1:2:1438:G:H2'	1:2:1439:C:C6	2.49	0.47
1:2:1483:A:C6	1:2:1484:G:C6	3.02	0.47
1:2:1497:U:C2	1:2:1498:G:C8	3.02	0.47
4:S2:90:THR:HB	4:S2:93:GLY:O	2.14	0.47
25:D3:12:ALA:O	25:D3:16:ARG:HG3	2.14	0.47
25:D3:103:LEU:HB3	25:D3:126:LYS:HB2	1.97	0.47
36:1:126:U:H2'	36:1:127:G:O4'	2.14	0.47
36:1:250:U:H5''	36:1:251:G:H5''	1.96	0.47
36:1:792:G:H2'	36:1:793:C:C6	2.48	0.47
36:1:2103:U:H2'	36:1:2104:A:C8	2.48	0.47
36:1:2878:G:O5'	36:1:2878:G:H8	1.97	0.47
36:1:3008:A:OP2	52:M6:74:ARG:NH1	2.38	0.47
85:1:3836:OHX:N3	85:1:4008:OHX:N4	2.63	0.47
85:1:3940:OHX:N2	85:1:4004:OHX:N5	2.62	0.47
40:L3:194:TRP:CE2	40:L3:198:HIS:CE1	3.02	0.47
41:L4:205:PRO:HG2	41:L4:225:VAL:HG13	1.95	0.47
42:L5:152:ARG:HG3	42:L5:152:ARG:NH1	2.29	0.47
47:M0:174:THR:HG23	47:M0:176:LEU:N	2.29	0.47
49:M3:121:SER:OG	49:M3:122:LYS:N	2.47	0.47
77:Q1:2:ARG:HB3	77:Q1:5:TRP:CD1	2.49	0.47
1:6:934:C:C6	28:d6:11:ASN:HB3	2.50	0.47
1:6:1586:A:H2'	1:6:1587:A:O4'	2.14	0.47
13:c1:46:LYS:HG3	13:c1:50:GLU:CD	2.39	0.47
21:c9:115:GLU:HG3	21:c9:123:ARG:HD3	1.96	0.47
25:d3:60:GLU:CD	32:e0:3:LYS:HB2	2.39	0.47
26:d4:52:LYS:C	26:d4:54:ALA:H	2.22	0.47
36:5:1597:C:H2'	36:5:1598:G:C8	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2507:C:O2'	36:5:2508:U:OP1	2.25	0.47
36:5:2701:U:OP2	57:n1:22:HIS:ND1	2.46	0.47
36:5:3110:C:H2'	36:5:3111:U:C6	2.49	0.47
48:m1:90:GLN:HA	48:m1:170:ASP:O	2.13	0.47
61:n5:108:LEU:HD23	61:n5:108:LEU:HA	1.74	0.47
1:2:322:G:O4'	1:2:323:A:H8	1.97	0.47
1:2:495:C:H3'	1:2:496:G:O4'	2.15	0.47
1:2:1165:G:C6	1:2:1166:A:N6	2.82	0.47
2:S0:105:GLY:H	2:S0:135:GLU:CD	2.18	0.47
2:S0:185:ARG:CB	23:D1:45:ALA:H	2.27	0.47
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.49	0.47
4:S2:140:ARG:HB3	4:S2:221:THR:HB	1.97	0.47
7:S5:63:GLN:HB3	7:S5:64:VAL:H	1.48	0.47
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.97	0.47
36:1:685:G:OP2	49:M3:35:ARG:NH1	2.47	0.47
36:1:871:U:H2'	36:1:872:U:C6	2.49	0.47
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.96	0.47
36:1:3068:U:OP2	55:M9:62:ARG:NH1	2.42	0.47
85:1:3927:OHX:N1	85:1:3975:OHX:N4	2.62	0.47
37:3:45:A:H2'	37:3:46:A:C8	2.49	0.47
58:N2:53:ALA:O	58:N2:68:THR:HG22	2.15	0.47
59:N3:120:LYS:HB3	59:N3:137:VAL:CG2	2.43	0.47
67:O1:51:LEU:HD22	67:O1:55:LEU:HD12	1.97	0.47
76:Q0:82:LEU:C	76:Q0:84:ALA:H	2.23	0.47
1:6:737:A:H2'	1:6:738:G:C8	2.48	0.47
1:6:900:A:OP1	16:c4:43:THR:OG1	2.23	0.47
2:s0:28:ASN:O	2:s0:150:ASP:HB3	2.15	0.47
2:s0:71:GLU:HA	2:s0:95:ALA:N	2.29	0.47
2:s0:169:SER:O	2:s0:173:ILE:HG12	2.15	0.47
6:s4:93:ASP:C	6:s4:95:THR:H	2.18	0.47
9:s7:49:ILE:HD12	9:s7:172:VAL:HA	1.97	0.47
23:d1:9:VAL:O	23:d1:10:GLU:HB3	2.14	0.47
31:d9:21:CYS:HB2	31:d9:39:CYS:HB3	1.96	0.47
36:5:430:U:OP2	85:5:3827:OHX:N5	2.47	0.47
36:5:658:G:OP1	85:8:218:OHX:N3	2.47	0.47
36:5:824:C:H5''	39:l2:21:ARG:HD3	1.97	0.47
36:5:856:G:OP1	55:m9:92:GLN:NE2	2.46	0.47
36:5:899:U:O4	85:5:3807:OHX:N5	2.47	0.47
36:5:953:G:O2'	36:5:1116:G:H5'	2.14	0.47
36:5:1012:G:H2'	36:5:1013:G:O4'	2.14	0.47
36:5:1597:C:H2'	36:5:1598:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1856:C:H2'	36:5:1857:C:C6	2.49	0.47
36:5:2528:G:N7	85:5:4044:OHX:N3	2.62	0.47
36:5:2770:G:N7	85:5:3992:OHX:N5	2.62	0.47
85:5:4049:OHX:N1	85:5:4054:OHX:N3	2.63	0.47
38:8:62:C:H4'	38:8:63:G:O5'	2.14	0.47
41:l4:10:SER:OG	41:l4:14:GLU:HG2	2.15	0.47
41:l4:283:THR:HB	41:l4:289:ILE:HD11	1.97	0.47
41:l4:295:ILE:HD11	54:m8:129:VAL:HA	1.97	0.47
47:m0:142:ASP:OD2	47:m0:178:ARG:NH2	2.46	0.47
52:m6:78:ARG:HH11	52:m6:78:ARG:CG	2.28	0.47
59:n3:86:ARG:HB2	59:n3:92:PHE:CE1	2.49	0.47
63:n7:58:GLY:O	63:n7:62:VAL:HG23	2.15	0.47
70:o4:107:GLU:HA	70:o4:110:GLU:OE1	2.15	0.47
1:2:17:C:H4'	1:2:1109:G:C8	2.50	0.47
1:2:417:A:H4'	1:2:418:G:O5'	2.14	0.47
1:2:542:A:H2'	1:2:543:C:H5'	1.97	0.47
1:2:704:C:H3'	1:2:704:C:OP2	2.15	0.47
1:2:1498:G:C2'	1:2:1499:G:H5'	2.44	0.47
1:2:1533:C:H4'	1:2:1539:G:N1	2.29	0.47
1:2:1591:C:H2'	1:2:1592:A:H8	1.79	0.47
1:2:1597:A:C8	31:D9:14:TYR:CD2	3.02	0.47
14:C2:82:PRO:O	14:C2:83:GLU:HB2	2.14	0.47
20:C8:28:ILE:HA	20:C8:58:ALA:HB2	1.97	0.47
33:E1:143:LYS:O	33:E1:145:HIS:N	2.47	0.47
36:1:511:G:H2'	36:1:512:U:O4'	2.15	0.47
36:1:1168:U:H1'	44:L7:209:ASN:ND2	2.29	0.47
36:1:1798:A:H2'	36:1:1799:A:C8	2.49	0.47
36:1:1854:C:OP2	85:1:3893:OHX:N5	2.47	0.47
36:1:2777:G:H5'	36:1:2779:A:OP2	2.14	0.47
36:1:2992:U:H1'	53:M7:69:ARG:NH2	2.29	0.47
36:1:3306:U:O2'	36:1:3308:C:OP2	2.26	0.47
85:1:3927:OHX:N5	85:1:3975:OHX:N6	2.62	0.47
38:4:107:G:OP2	85:4:228:OHX:N2	2.47	0.47
45:L8:94:PHE:HB3	45:L8:189:LEU:HD13	1.96	0.47
45:L8:101:THR:HG22	45:L8:104:GLU:H	1.78	0.47
60:N4:27:LYS:HB3	60:N4:29:PHE:CE1	2.50	0.47
62:N6:91:ASN:C	62:N6:93:ALA:H	2.21	0.47
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	1.96	0.47
69:O3:67:MET:HE1	69:O3:90:PRO:HG3	1.96	0.47
1:6:121:U:O2'	6:s4:33:ALA:O	2.22	0.47
1:6:197:A:H2'	1:6:198:A:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:901:G:N1	1:6:902:G:C6	2.82	0.47
4:s2:228:ASN:ND2	4:s2:228:ASN:N	2.62	0.47
7:s5:225:ARG:NH2	30:d8:58:GLU:HB2	2.30	0.47
13:c1:109:VAL:HG23	13:c1:137:PHE:O	2.15	0.47
17:c5:96:ILE:HB	17:c5:120:SER:HB2	1.96	0.47
36:5:645:A:O2'	36:5:647:A:OP2	2.26	0.47
36:5:2509:U:H2'	36:5:2510:U:H5''	1.95	0.47
36:5:2586:G:O2'	36:5:2588:U:OP1	2.31	0.47
36:5:2915:U:H5	40:l3:7:GLU:HG2	1.78	0.47
38:8:65:A:O3'	71:o5:10:ARG:NH2	2.48	0.47
42:l5:59:ASP:OD2	42:l5:60:ILE:N	2.47	0.47
42:l5:132:THR:HG21	42:l5:170:GLY:HA2	1.96	0.47
43:l6:109:GLU:CD	43:l6:109:GLU:H	2.22	0.47
46:l9:94:TYR:CE2	46:l9:98:PRO:HA	2.49	0.47
57:n1:56:PHE:CZ	57:n1:78:LYS:HD3	2.48	0.47
60:n4:1:MET:O	60:n4:1:MET:HG3	2.15	0.47
71:o5:101:THR:HG22	71:o5:104:GLN:HB2	1.96	0.47
1:2:1345:A:H2'	1:2:1348:A:H62	1.79	0.47
3:S1:81:PHE:HB2	3:S1:82:ARG:H	1.55	0.47
5:S3:7:LYS:HA	5:S3:7:LYS:HD2	1.63	0.47
8:S6:58:LYS:HB2	8:S6:59:GLN:NE2	2.29	0.47
11:S9:92:LYS:HA	11:S9:92:LYS:HE3	1.95	0.47
19:C7:5:ARG:O	19:C7:10:LYS:HE3	2.14	0.47
19:C7:77:GLU:O	19:C7:81:LYS:HB2	2.14	0.47
28:D6:75:VAL:O	28:D6:79:ILE:N	2.42	0.47
36:1:38:U:H2'	36:1:39:A:O4'	2.15	0.47
36:1:282:G:C8	36:1:282:G:H3'	2.49	0.47
36:1:2104:A:H2'	36:1:2105:G:H8	1.80	0.47
36:1:2294:U:OP1	59:N3:70:ARG:NH2	2.35	0.47
36:1:2554:A:C8	36:1:2554:A:H5'	2.49	0.47
36:1:2767:U:O4	85:1:3898:OHX:N6	2.48	0.47
36:1:2885:C:N4	36:1:2886:U:O4	2.48	0.47
36:1:3001:C:OP1	40:L3:120:LYS:NZ	2.45	0.47
36:1:3338:C:H2'	36:1:3339:A:C8	2.49	0.47
36:1:3353:G:HO2'	36:1:3354:U:P	2.35	0.47
43:L6:105:TYR:CE1	43:L6:134:ARG:HD2	2.50	0.47
45:L8:52:TRP:NE1	45:L8:60:ARG:HH12	2.13	0.47
61:N5:73:MET:HE1	61:N5:141:TYR:CE1	2.49	0.47
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.43	0.47
76:Q0:77:ILE:HB	76:Q0:78:ILE:H	1.44	0.47
1:6:648:G:C2	1:6:687:G:C2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:680:U:H2'	1:6:682:C:H41	1.80	0.47
1:6:789:A:C2	1:6:790:U:H1'	2.50	0.47
1:6:1207:C:H42	1:6:1456:C:H5	1.63	0.47
1:6:1263:G:C2	1:6:1264:G:H1'	2.49	0.47
1:6:1670:G:N7	85:6:2154:OHX:N4	2.63	0.47
3:s1:142:PHE:O	3:s1:207:LEU:HA	2.15	0.47
10:s8:97:THR:O	10:s8:100:ALA:HB2	2.15	0.47
11:s9:28:LEU:HD13	32:e0:40:TYR:HA	1.96	0.47
11:s9:66:ASP:HA	11:s9:67:PRO:HD2	1.65	0.47
11:s9:109:LEU:HD13	11:s9:129:ILE:HD13	1.96	0.47
36:5:63:A:H8	36:5:63:A:O5'	1.98	0.47
36:5:372:A:H2'	36:5:373:A:C8	2.50	0.47
36:5:413:U:OP1	53:m7:30:ARG:NH2	2.47	0.47
36:5:685:G:OP2	49:m3:35:ARG:NH1	2.48	0.47
36:5:1414:G:O6	85:5:3983:OHX:N1	2.48	0.47
36:5:2947:G:N2	36:5:2948:C:C2	2.83	0.47
36:5:3136:G:C5	36:5:3137:C:C5	3.02	0.47
38:8:141:C:H2'	38:8:142:C:H6	1.79	0.47
39:l2:46:LYS:HB2	39:l2:62:VAL:HG12	1.97	0.47
50:m4:128:ARG:HD3	50:m4:132:LYS:HD2	1.97	0.47
52:m6:111:PRO:HG2	52:m6:112:TYR:CE2	2.50	0.47
53:m7:31:GLU:HG3	53:m7:60:PHE:HA	1.96	0.47
63:n7:41:ALA:O	63:n7:43:VAL:HG13	2.13	0.47
70:o4:83:ASN:OD1	70:o4:83:ASN:N	2.48	0.47
70:o4:107:GLU:O	70:o4:110:GLU:HB2	2.14	0.47
79:q3:44:LYS:HD2	79:q3:59:CYS:SG	2.53	0.47
1:2:86:A:O2'	1:2:147:A:N3	2.42	0.47
1:2:301:A:H2'	1:2:302:U:O4'	2.15	0.47
1:2:452:A:H3'	1:2:453:U:C5	2.49	0.47
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.41	0.47
1:2:516:G:OP2	85:2:2029:OHX:N6	2.47	0.47
1:2:629:U:H2'	1:2:630:A:H8	1.79	0.47
1:2:795:U:C5	1:2:796:A:C8	3.02	0.47
1:2:826:U:H2'	1:2:827:C:H6	1.80	0.47
1:2:866:G:OP1	15:C3:2:GLY:HA3	2.15	0.47
1:2:1014:G:H2'	1:2:1015:U:O4'	2.15	0.47
1:2:1248:C:H2'	1:2:1249:U:C6	2.50	0.47
1:2:1473:U:H5''	7:S5:190:ILE:HG13	1.96	0.47
1:2:1556:A:C5	1:2:1560:U:C2	3.03	0.47
1:2:1591:C:H2'	1:2:1592:A:C8	2.50	0.47
2:S0:102:PHE:CZ	2:S0:106:SER:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:167:LYS:HB3	2:S0:168:HIS:H	1.42	0.47
2:S0:198:MET:SD	19:C7:85:VAL:HG11	2.54	0.47
4:S2:228:ASN:OD1	4:S2:229:LEU:N	2.47	0.47
6:S4:32:SER:OG	6:S4:81:THR:OG1	2.33	0.47
6:S4:212:ASP:C	6:S4:214:LEU:H	2.21	0.47
6:S4:246:LEU:HD12	6:S4:246:LEU:H	1.79	0.47
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.15	0.47
8:S6:155:ASP:OD1	85:S6:301:OHX:N4	2.48	0.47
10:S8:29:LEU:HD23	10:S8:29:LEU:C	2.40	0.47
12:C0:55:VAL:HA	12:C0:69:THR:HG23	1.95	0.47
16:C4:42:VAL:HG23	16:C4:63:ALA:HB1	1.97	0.47
18:C6:91:ALA:O	18:C6:94:GLN:HB3	2.15	0.47
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.47	0.47
21:C9:89:ARG:HB3	21:C9:90:PRO:HD2	1.97	0.47
21:C9:126:GLU:HA	21:C9:129:GLN:HG3	1.97	0.47
22:D0:35:GLU:HA	22:D0:38:SER:HB3	1.97	0.47
27:D5:60:VAL:CG2	27:D5:101:TYR:HB2	2.44	0.47
34:SR:48:THR:OG1	34:SR:49:GLY:N	2.45	0.47
36:1:189:G:C2	36:1:191:U:C4	3.02	0.47
36:1:255:A:O2'	36:1:256:G:H5'	2.14	0.47
36:1:274:G:H2'	36:1:275:U:O4'	2.15	0.47
36:1:744:A:H1'	54:M8:141:ARG:HH11	1.80	0.47
36:1:1204:A:H2	36:1:2834:G:N3	2.12	0.47
36:1:1347:U:H4'	41:L4:305:ALA:HB2	1.97	0.47
36:1:1390:A:N6	36:1:1418:A:O2'	2.47	0.47
36:1:1498:A:H5'	36:1:1602:A:H1'	1.97	0.47
36:1:2178:A:H5''	39:L2:129:ALA:HB3	1.97	0.47
36:1:2228:A:H2'	36:1:2229:A:C8	2.49	0.47
36:1:2556:C:O2'	63:N7:135:ARG:NE	2.42	0.47
36:1:2714:G:OP2	78:Q2:10:THR:OG1	2.26	0.47
36:1:2789:U:H2'	36:1:2790:A:C8	2.50	0.47
36:1:3243:A:C8	52:M6:156:LEU:HD22	2.50	0.47
36:1:3255:U:H2'	36:1:3256:G:H8	1.79	0.47
85:1:3880:OHX:N3	85:1:3916:OHX:N1	2.63	0.47
37:3:71:G:H2'	37:3:72:A:H8	1.80	0.47
38:4:122:U:H2'	38:4:123:G:C8	2.49	0.47
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.15	0.47
42:L5:21:ARG:HA	42:L5:24:ARG:NH2	2.30	0.47
45:L8:84:ARG:H	45:L8:84:ARG:NE	2.02	0.47
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.50	0.47
47:M0:52:LEU:HB2	47:M0:136:PHE:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:16:SER:HB2	72:O6:48:ALA:HB1	1.95	0.47
53:M7:30:ARG:C	53:M7:30:ARG:HD3	2.40	0.47
54:M8:148:GLU:O	54:M8:150:VAL:N	2.47	0.47
57:N1:131:GLN:HG3	57:N1:132:PRO:HD2	1.96	0.47
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.42	0.47
74:O8:5:ILE:HG22	74:O8:54:LEU:HB2	1.97	0.47
1:6:187:G:OP2	10:s8:142:LYS:NZ	2.44	0.47
1:6:459:G:OP1	26:d4:109:LYS:NZ	2.41	0.47
1:6:502:U:H3'	1:6:503:G:H8	1.80	0.47
1:6:753:A:N7	6:s4:187:ARG:NH2	2.62	0.47
1:6:804:A:C8	24:d2:107:SER:HA	2.50	0.47
1:6:823:G:H2'	1:6:824:G:O4'	2.15	0.47
1:6:964:U:H4'	1:6:965:U:O4'	2.15	0.47
1:6:995:A:H2'	1:6:996:U:O4'	2.14	0.47
1:6:1255:G:O2'	1:6:1256:A:O5'	2.30	0.47
1:6:1557:U:OP2	1:6:1559:A:O2'	2.28	0.47
1:6:1766:A:H5''	85:6:2088:OHX:N3	2.29	0.47
1:6:1799:U:O2'	3:s1:152:ARG:NH1	2.44	0.47
2:s0:55:GLU:HG2	23:d1:79:LEU:HD22	1.96	0.47
2:s0:66:ALA:HB1	23:d1:50:TYR:CD1	2.50	0.47
2:s0:163:ASN:C	2:s0:165:ARG:H	2.23	0.47
3:s1:35:PRO:HG3	3:s1:231:LEU:HD11	1.96	0.47
17:c5:75:PRO:HA	17:c5:93:VAL:HB	1.95	0.47
17:c5:78:THR:OG1	17:c5:79:HIS:N	2.47	0.47
18:c6:94:GLN:OE1	34:sR:60:SER:HB3	2.15	0.47
21:c9:108:LEU:HD23	21:c9:108:LEU:HA	1.72	0.47
24:d2:23:ARG:NH1	24:d2:66:ASN:HA	2.30	0.47
28:d6:88:SER:O	28:d6:92:ARG:HG3	2.15	0.47
32:e0:38:LEU:O	32:e0:42:ARG:HB2	2.14	0.47
34:sR:13:LEU:HB2	34:sR:310:ILE:HB	1.95	0.47
36:5:287:G:H5'	51:m5:179:LYS:O	2.15	0.47
36:5:413:U:H2'	36:5:414:U:C6	2.49	0.47
36:5:439:C:C4'	36:5:440:A:H5'	2.45	0.47
36:5:607:A:OP1	43:l6:26:ARG:NH2	2.46	0.47
36:5:1104:G:H2'	36:5:1105:A:H8	1.80	0.47
36:5:1232:C:O2'	81:p0:36:GLN:OE1	2.27	0.47
36:5:1465:A:N6	36:5:1466:G:C2	2.83	0.47
36:5:1605:A:O2'	36:5:1607:U:OP2	2.29	0.47
36:5:1901:A:O3'	36:5:2918:G:H5'	2.14	0.47
36:5:2436:U:H3	36:5:2511:A:H62	1.61	0.47
36:5:2552:C:N4	66:o0:57:GLU:OE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2680:A:C2	48:m1:57:PHE:HB3	2.50	0.47
36:5:3231:U:H2'	36:5:3232:G:C8	2.49	0.47
39:l2:96:LEU:HD21	39:l2:107:VAL:HG12	1.97	0.47
40:l3:284:ARG:NH2	40:l3:295:ALA:O	2.47	0.47
40:l3:290:ASP:OD2	40:l3:292:ALA:N	2.28	0.47
41:l4:339:LEU:HA	41:l4:342:LYS:HB2	1.97	0.47
45:l8:73:PRO:HG3	45:l8:232:HIS:C	2.40	0.47
45:l8:151:VAL:HG13	45:l8:199:ALA:HB2	1.97	0.47
52:m6:57:PHE:O	52:m6:72:HIS:CE1	2.67	0.47
52:m6:124:LEU:HD23	56:n0:168:PRO:HG3	1.97	0.47
53:m7:39:TRP:O	53:m7:114:VAL:HG12	2.15	0.47
58:n2:33:TYR:CE1	58:n2:80:THR:HG23	2.49	0.47
61:n5:115:ARG:NH1	61:n5:119:THR:OG1	2.48	0.47
62:n6:51:ARG:HG2	62:n6:115:ARG:NH2	2.30	0.47
69:o3:8:TYR:HB3	69:o3:101:PHE:CD1	2.49	0.47
74:o8:54:LEU:HG	74:o8:56:ILE:HD11	1.96	0.47
1:2:432:G:H2'	1:2:433:C:O4'	2.14	0.47
1:2:894:U:H2'	1:2:895:G:H8	1.80	0.47
1:2:1291:G:C2	1:2:1325:A:C2	3.03	0.47
1:2:1696:G:H21	1:2:1705:C:H5	1.63	0.47
27:D5:95:HIS:CG	27:D5:96:SER:N	2.81	0.47
36:1:2577:C:H2'	36:1:2578:U:O4'	2.15	0.47
36:1:3237:U:H2'	36:1:3238:G:C8	2.50	0.47
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.25	0.47
47:M0:50:VAL:HG22	47:M0:167:LEU:HA	1.97	0.47
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.15	0.47
52:M6:85:ARG:C	52:M6:87:MET:H	2.22	0.47
52:M6:110:PRO:HA	52:M6:113:ASP:OD2	2.14	0.47
55:M9:123:LEU:O	55:M9:127:SER:N	2.31	0.47
68:O2:21:HIS:CG	68:O2:24:ARG:HD2	2.50	0.47
1:6:8:U:O2'	85:6:2035:OHX:N2	2.48	0.47
1:6:1097:U:O3'	4:s2:159:THR:HG21	2.14	0.47
1:6:1451:C:H2'	1:6:1452:U:C6	2.50	0.47
6:s4:100:ARG:O	6:s4:102:VAL:HG12	2.15	0.47
21:c9:57:ARG:HG3	21:c9:57:ARG:HH11	1.79	0.47
36:5:71:A:C2	36:5:2778:G:H1'	2.50	0.47
36:5:238:A:H2'	36:5:239:G:C8	2.50	0.47
36:5:1121:U:C4	36:5:1122:U:C4	3.03	0.47
36:5:1131:G:C4	36:5:2373:A:C2	3.03	0.47
36:5:2608:G:H2'	36:5:2609:A:H8	1.80	0.47
36:5:2976:A:OP1	85:5:3989:OHX:N3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2991:A:OP1	40:l3:21:ARG:HG3	2.15	0.47
36:5:3304:U:O2'	40:l3:334:ARG:NH2	2.39	0.47
85:5:3773:OHX:N4	85:5:4007:OHX:N5	2.63	0.47
37:7:47:C:OP2	42:l5:158:ARG:HD2	2.14	0.47
37:7:63:A:OP2	42:l5:282:ARG:HD3	2.14	0.47
43:l6:64:LEU:HD11	43:l6:76:LEU:HD23	1.97	0.47
44:l7:158:LYS:HD3	44:l7:203:TRP:HH2	1.80	0.47
46:l9:92:TYR:HB2	46:l9:142:ASP:HB3	1.97	0.47
49:m3:61:PRO:HD2	49:m3:70:ARG:HH21	1.79	0.47
68:o2:2:ALA:O	68:o2:90:LYS:HA	2.15	0.47
1:2:206:A:H1'	1:2:262:U:C2	2.50	0.47
1:2:271:A:H5'	1:2:272:U:OP2	2.15	0.47
1:2:306:U:H2'	1:2:307:G:C8	2.50	0.47
1:2:522:U:O3'	26:D4:60:PHE:HB2	2.15	0.47
1:2:1145:U:C4	1:2:1146:G:N7	2.83	0.47
1:2:1564:U:H2'	1:2:1565:C:H6	1.79	0.47
1:2:1615:C:OP1	7:S5:81:ARG:NH2	2.48	0.47
1:2:1793:G:H1'	1:2:1794:A:H2'	1.97	0.47
3:S1:70:LEU:HD12	3:S1:82:ARG:HB2	1.96	0.47
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	1.97	0.47
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.29	0.47
7:S5:59:VAL:C	7:S5:61:TYR:H	2.22	0.47
7:S5:77:TYR:HB3	7:S5:84:LYS:HA	1.96	0.47
12:C0:44:LYS:HD3	12:C0:44:LYS:HA	1.71	0.47
14:C2:61:VAL:HA	14:C2:89:ILE:HG22	1.96	0.47
15:C3:130:ARG:HA	15:C3:135:LEU:HB2	1.96	0.47
27:D5:50:ILE:O	27:D5:54:VAL:HG23	2.14	0.47
36:1:595:G:N1	36:1:609:G:H5''	2.30	0.47
36:1:1165:A:H2'	36:1:1166:G:O4'	2.15	0.47
36:1:1171:G:C5	85:1:3818:OHX:N2	2.83	0.47
36:1:1753:G:O6	85:1:3907:OHX:N6	2.48	0.47
36:1:2828:G:O2'	47:M0:4:ARG:NH1	2.39	0.47
36:1:3115:C:O2'	36:1:3117:C:N4	2.40	0.47
36:1:3163:A:C6	36:1:3164:C:N4	2.83	0.47
38:4:93:U:H2'	38:4:94:C:O4'	2.14	0.47
39:L2:104:LEU:HD12	39:L2:104:LEU:HA	1.74	0.47
44:L7:59:GLU:O	44:L7:63:ILE:HG13	2.14	0.47
44:L7:233:GLU:OE1	56:N0:35:VAL:HG22	2.14	0.47
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	1.96	0.47
45:L8:247:ASP:C	45:L8:248:LYS:HD2	2.39	0.47
53:M7:172:GLN:NE2	69:O3:60:ARG:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:24:VAL:HG23	54:M8:25:TYR:CD2	2.49	0.47
59:N3:72:LYS:HE2	59:N3:72:LYS:HB2	1.66	0.47
75:O9:9:ILE:HD11	75:O9:51:ILE:HG23	1.96	0.47
1:6:150:U:H2'	1:6:151:G:O4'	2.15	0.47
1:6:1133:A:H2'	1:6:1134:C:O4'	2.15	0.47
2:s0:48:ILE:HG21	2:s0:161:PRO:HB2	1.97	0.47
3:s1:99:ASN:OD1	3:s1:100:PHE:N	2.48	0.47
3:s1:144:ARG:HB3	3:s1:208:GLN:HB3	1.95	0.47
5:s3:64:ARG:HG2	5:s3:65:ARG:H	1.79	0.47
6:s4:127:LYS:HA	6:s4:127:LYS:HE2	1.97	0.47
12:c0:59:PHE:CZ	12:c0:62:GLN:HA	2.49	0.47
15:c3:11:ILE:O	15:c3:13:SER:N	2.48	0.47
35:sM:26:VAL:HG11	48:m1:49:LYS:HE3	1.97	0.47
36:5:22:G:O2'	38:8:40:A:N1	2.34	0.47
36:5:1306:G:C6	52:m6:62:THR:HA	2.50	0.47
36:5:1386:A:N3	41:l4:180:LYS:HA	2.29	0.47
36:5:1690:C:C4	36:5:1691:U:C4	3.03	0.47
36:5:1861:G:OP2	85:5:3839:OHX:N2	2.48	0.47
36:5:2440:G:H2'	36:5:2441:A:C8	2.49	0.47
36:5:3008:A:OP1	52:m6:72:HIS:HD2	1.98	0.47
37:7:5:G:OP1	48:m1:143:ARG:NH2	2.48	0.47
38:8:104:A:C8	38:8:105:A:C8	3.02	0.47
49:m3:2:ALA:N	64:n8:31:GLY:O	2.48	0.47
51:m5:21:PHE:O	51:m5:25:VAL:HG23	2.15	0.47
54:m8:112:ALA:O	54:m8:115:VAL:N	2.48	0.47
1:2:330:G:H2'	1:2:331:A:C8	2.50	0.47
1:2:702:G:C4	1:2:703:G:C8	3.03	0.47
85:2:2048:OHX:N4	77:Q1:25:LYS:O	2.48	0.47
85:2:2054:OHX:N3	85:2:2068:OHX:N5	2.63	0.47
7:S5:29:ILE:O	7:S5:34:GLN:NE2	2.43	0.47
21:C9:41:SER:C	21:C9:43:ASN:H	2.23	0.47
36:1:309:U:OP1	72:O6:84:LYS:NZ	2.48	0.47
36:1:2444:C:H3'	36:1:2445:A:H5''	1.96	0.47
39:L2:5:ILE:HG12	39:L2:8:GLN:HG2	1.96	0.47
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.48	0.47
43:L6:152:THR:HA	43:L6:153:PRO:HD3	1.76	0.47
44:L7:96:PRO:HB2	44:L7:99:PRO:HD2	1.97	0.47
46:L9:93:VAL:HG22	76:Q0:82:LEU:HB3	1.95	0.47
46:L9:94:TYR:CE2	46:L9:98:PRO:HA	2.50	0.47
47:M0:21:ARG:H	47:M0:21:ARG:HG2	1.55	0.47
52:M6:102:LEU:HD12	52:M6:103:LYS:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:148:LYS:HB2	52:M6:149:TYR:CD2	2.50	0.47
53:M7:14:SER:HA	53:M7:151:THR:HA	1.96	0.47
63:N7:64:LYS:HA	63:N7:64:LYS:HD3	1.82	0.47
76:Q0:127:LEU:HD22	76:Q0:128:LYS:HD3	1.97	0.47
1:6:139:C:H4'	1:6:140:A:O5'	2.14	0.47
1:6:159:U:H5'	26:d4:117:LYS:HG2	1.96	0.47
1:6:826:U:H2'	1:6:827:C:C6	2.50	0.47
1:6:1488:G:O2'	1:6:1494:C:O2	2.28	0.47
1:6:1688:U:H2'	1:6:1689:A:C8	2.50	0.47
7:s5:59:VAL:HG12	7:s5:60:ASP:H	1.80	0.47
8:s6:9:VAL:O	60:n4:80:ARG:HD3	2.15	0.47
9:s7:82:GLU:OE2	9:s7:89:HIS:HA	2.15	0.47
12:c0:54:TYR:CE2	12:c0:75:TYR:HB2	2.50	0.47
14:c2:67:THR:C	14:c2:69:ALA:H	2.23	0.47
15:c3:20:ARG:HH11	15:c3:20:ARG:CG	2.28	0.47
17:c5:86:VAL:HB	17:c5:87:PRO:HD2	1.97	0.47
24:d2:106:THR:HG22	24:d2:122:SER:C	2.40	0.47
26:d4:59:GLY:O	26:d4:71:GLY:HA2	2.15	0.47
27:d5:66:VAL:HG22	27:d5:71:ILE:HG22	1.97	0.47
34:sR:90:ARG:HD3	34:sR:99:THR:OG1	2.15	0.47
36:5:1757:A:H2'	36:5:1758:G:C8	2.50	0.47
36:5:1908:A:O5'	36:5:1908:A:H8	1.98	0.47
36:5:2213:A:H2	36:5:2601:A:N3	2.13	0.47
36:5:3160:U:H3	36:5:3290:G:H1	1.63	0.47
38:8:151:C:H4'	38:8:153:U:O4	2.15	0.47
40:l3:56:ILE:HD12	40:l3:358:TRP:O	2.16	0.47
41:l4:138:ARG:HE	41:l4:240:PRO:HD2	1.80	0.47
42:l5:197:SER:OG	42:l5:202:GLY:HA3	2.14	0.47
44:l7:198:ALA:O	44:l7:201:PHE:HB3	2.14	0.47
49:m3:42:ARG:HH21	49:m3:51:LEU:HD22	1.79	0.47
49:m3:180:ARG:HD2	72:o6:11:LEU:HD21	1.98	0.47
52:m6:12:LYS:O	56:n0:167:ARG:NH2	2.47	0.47
55:m9:89:LEU:HD12	55:m9:90:PRO:HD2	1.98	0.47
57:n1:65:TYR:HB3	57:n1:75:ILE:HG13	1.97	0.47
64:n8:47:LYS:HE2	64:n8:48:TYR:CZ	2.50	0.47
71:o5:6:ALA:O	71:o5:10:ARG:HG3	2.14	0.47
71:o5:76:GLN:HG2	71:o5:77:PRO:HD2	1.97	0.47
71:o5:101:THR:HG22	71:o5:104:GLN:H	1.79	0.47
1:2:524:U:H1'	1:2:527:A:N7	2.30	0.46
1:2:886:U:O2'	16:C4:121:VAL:O	2.33	0.46
2:S0:119:ARG:HB3	2:S0:119:ARG:HH11	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:106:LYS:O	5:S3:110:LEU:HB2	2.15	0.46
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.40	0.46
21:C9:126:GLU:H	21:C9:126:GLU:CD	2.22	0.46
25:D3:27:ASN:O	25:D3:31:LYS:HB2	2.15	0.46
36:1:1615:C:OP1	85:1:4025:OHX:N3	2.48	0.46
36:1:2108:C:H1'	36:1:3344:A:H8	1.78	0.46
36:1:2513:U:H2'	36:1:2592:G:H1	1.80	0.46
36:1:2660:G:N3	36:1:2744:U:O2'	2.46	0.46
38:4:124:G:H1	38:4:129:C:N4	2.01	0.46
40:L3:18:PRO:HG2	40:L3:20:LYS:HD2	1.97	0.46
42:L5:85:ARG:HH12	42:L5:253:PHE:HA	1.80	0.46
42:L5:261:THR:O	42:L5:264:GLN:HB2	2.16	0.46
45:L8:97:TYR:HE1	45:L8:204:ARG:HD3	1.80	0.46
46:L9:101:VAL:HG12	46:L9:136:PHE:CE1	2.48	0.46
54:M8:126:GLN:O	54:M8:130:ARG:HG3	2.15	0.46
75:O9:23:LEU:HA	75:O9:24:PRO:HD3	1.79	0.46
1:6:53:G:H2'	1:6:54:C:O4'	2.15	0.46
1:6:1341:A:OP1	34:sR:63:GLY:HA2	2.15	0.46
11:s9:83:VAL:HG23	11:s9:85:VAL:H	1.80	0.46
12:c0:1:MET:HE2	12:c0:41:TYR:HE1	1.80	0.46
16:c4:32:ASP:OD1	16:c4:37:GLU:HB2	2.15	0.46
24:d2:93:LEU:O	24:d2:94:LEU:HD23	2.16	0.46
27:d5:51:LEU:H	27:d5:51:LEU:HD12	1.80	0.46
36:5:90:C:H2'	36:5:91:G:H5'	1.95	0.46
36:5:175:C:H2'	36:5:176:G:H8	1.79	0.46
36:5:655:C:OP1	68:o2:27:ARG:HB3	2.15	0.46
36:5:1232:C:H2'	36:5:1233:G:H8	1.79	0.46
36:5:1238:C:HO2'	36:5:1239:C:P	2.30	0.46
36:5:2204:C:H4'	36:5:2205:U:OP1	2.15	0.46
36:5:2211:U:H5	36:5:2234:G:C6	2.33	0.46
36:5:3043:C:OP2	59:n3:48:ARG:NH2	2.48	0.46
36:5:3047:U:O2'	36:5:3048:A:H5'	2.15	0.46
38:8:143:U:OP1	51:m5:38:ARG:NH2	2.44	0.46
41:l4:26:PHE:HE2	41:l4:258:LEU:HD23	1.79	0.46
52:m6:142:SER:HB3	52:m6:147:TRP:HB2	1.96	0.46
56:n0:17:GLU:O	56:n0:20:PRO:HD3	2.14	0.46
67:o1:8:VAL:CG2	67:o1:77:ARG:HH21	2.28	0.46
72:o6:45:ARG:NH2	72:o6:54:GLU:OE1	2.49	0.46
79:q3:29:LEU:O	79:q3:33:GLN:HG2	2.15	0.46
1:2:531:C:O2	26:D4:62:THR:HG23	2.15	0.46
3:S1:105:PHE:HB3	3:S1:110:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:116:LYS:HE2	3:S1:117:TRP:HZ3	1.80	0.46
8:S6:20:ASP:HB2	8:S6:23:ARG:HG3	1.97	0.46
11:S9:112:GLN:HG3	11:S9:148:VAL:HB	1.97	0.46
12:C0:59:PHE:CZ	12:C0:62:GLN:HA	2.49	0.46
23:D1:54:ALA:O	23:D1:55:LEU:HD23	2.15	0.46
24:D2:105:THR:OG1	24:D2:126:LEU:HG	2.16	0.46
34:SR:258:THR:HB	34:SR:275:ARG:HH12	1.81	0.46
36:1:259:C:H2'	36:1:260:C:H6	1.79	0.46
36:1:855:U:H2'	36:1:856:G:O4'	2.16	0.46
36:1:1009:A:OP2	85:1:3952:OHX:N1	2.49	0.46
36:1:1349:G:H3'	36:1:1349:G:N3	2.30	0.46
36:1:1915:A:H2'	36:1:1916:U:C6	2.49	0.46
36:1:2416:U:H2'	36:1:2417:U:H6	1.80	0.46
36:1:2689:A:N3	36:1:2689:A:H2'	2.31	0.46
36:1:2700:G:O2'	36:1:2705:A:N1	2.44	0.46
36:1:2747:A:H5'	42:L5:175:HIS:HA	1.97	0.46
36:1:2881:C:H2'	36:1:2882:U:C6	2.50	0.46
36:1:2895:G:H5''	76:Q0:102:ARG:NH2	2.30	0.46
36:1:3095:U:H2'	36:1:3096:C:H6	1.80	0.46
36:1:3216:G:O6	36:1:3259:U:H2'	2.15	0.46
41:L4:316:ASN:ND2	44:L7:150:LYS:HD2	2.31	0.46
42:L5:86:TYR:CG	42:L5:247:ILE:HG13	2.50	0.46
48:M1:7:ASN:OD1	48:M1:10:ARG:HD2	2.15	0.46
58:N2:79:LEU:O	58:N2:82:LYS:HB3	2.16	0.46
1:6:52:U:H2'	1:6:53:G:C8	2.50	0.46
1:6:926:A:C2	16:c4:125:SER:HB2	2.50	0.46
1:6:1321:A:OP2	2:s0:101:ARG:NH2	2.43	0.46
1:6:1671:A:H2'	1:6:1672:G:O4'	2.16	0.46
3:s1:67:GLU:CD	3:s1:83:LYS:HE2	2.40	0.46
4:s2:125:ILE:HG22	4:s2:129:ILE:HD11	1.98	0.46
5:s3:64:ARG:NH1	5:s3:68:GLU:OE1	2.48	0.46
6:s4:195:ILE:HG22	6:s4:196:VAL:N	2.29	0.46
8:s6:25:ARG:HA	8:s6:28:PHE:CD2	2.49	0.46
12:c0:15:LEU:HD11	12:c0:68:LEU:HD13	1.97	0.46
18:c6:99:GLU:HG2	34:sR:57:PRO:HB2	1.95	0.46
24:d2:126:LEU:HD23	24:d2:126:LEU:HA	1.81	0.46
36:5:169:U:H4'	36:5:170:G:OP1	2.16	0.46
36:5:1307:G:H1'	36:5:1308:A:C8	2.50	0.46
36:5:2434:U:H4'	36:5:2435:G:H5''	1.95	0.46
36:5:2441:A:C2	36:5:2442:G:H1'	2.50	0.46
36:5:2910:A:O2'	36:5:3130:A:N1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:71:A:H4'	38:8:72:A:O5'	2.15	0.46
41:14:91:GLY:C	41:14:93:MET:HE2	2.40	0.46
42:15:238:ASP:O	42:15:242:SER:HB3	2.15	0.46
45:18:122:LYS:C	45:18:124:ASP:H	2.24	0.46
69:o3:13:HIS:O	69:o3:95:GLY:N	2.34	0.46
75:o9:2:ALA:N	75:o9:5:LYS:HE2	2.30	0.46
1:2:72:A:OP1	1:2:72:A:H4'	2.15	0.46
1:2:526:A:C6	1:2:527:A:C5	3.03	0.46
1:2:720:G:O2'	1:2:721:U:H5'	2.15	0.46
1:2:912:U:H4'	1:2:913:G:H2'	1.96	0.46
1:2:1450:U:H2'	1:2:1451:C:H6	1.80	0.46
1:2:1573:A:H4'	1:2:1574:G:OP2	2.15	0.46
20:C8:11:PHE:CE1	27:D5:41:ILE:HG12	2.50	0.46
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.80	0.46
26:D4:57:VAL:HG13	26:D4:60:PHE:HE2	1.80	0.46
36:1:396:A:C6	36:1:399:A:C6	3.03	0.46
36:1:844:G:N7	85:1:3782:OHX:N5	2.64	0.46
36:1:2094:C:H2'	36:1:2095:G:C8	2.50	0.46
36:1:2264:U:OP2	85:1:3846:OHX:N5	2.49	0.46
37:3:7:G:O3'	42:L5:33:ARG:NH2	2.48	0.46
39:L2:130:SER:HA	39:L2:169:ILE:HG22	1.97	0.46
40:L3:293:ASN:HB2	40:L3:304:THR:HG22	1.96	0.46
52:M6:73:PHE:CD1	52:M6:78:ARG:HD3	2.51	0.46
57:N1:14:MET:HE2	57:N1:14:MET:HB3	1.70	0.46
59:N3:131:SER:C	59:N3:133:SER:H	2.22	0.46
60:N4:17:ARG:HD3	60:N4:17:ARG:HA	1.69	0.46
72:O6:60:LEU:HD13	72:O6:64:SER:HB3	1.97	0.46
1:6:489:C:O2'	1:6:490:C:O5'	2.32	0.46
1:6:1211:A:H1'	17:c5:100:LYS:HA	1.96	0.46
1:6:1230:A:H8	1:6:1258:U:C5	2.33	0.46
1:6:1434:U:H4'	31:d9:24:CYS:HB2	1.97	0.46
1:6:1542:G:N2	1:6:1568:C:H1'	2.30	0.46
4:s2:79:GLU:HG2	4:s2:81:MET:HE3	1.97	0.46
14:c2:42:ALA:HB1	14:c2:47:GLU:HB3	1.97	0.46
28:d6:53:LEU:O	28:d6:57:SER:HB3	2.15	0.46
32:e0:48:THR:OG1	32:e0:49:LEU:HD22	2.15	0.46
36:5:30:G:P	51:m5:172:ARG:HH11	2.38	0.46
36:5:32:U:O3'	51:m5:71:ARG:NH2	2.49	0.46
36:5:759:U:H1'	36:5:773:G:N2	2.30	0.46
36:5:1017:C:H42	36:5:2671:A:P	2.38	0.46
36:5:2314:U:H4'	36:5:2314:U:OP2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2592:G:H4'	36:5:2594:C:C2	2.51	0.46
36:5:2988:C:O2'	40:l3:266:ARG:HD2	2.15	0.46
36:5:3267:A:O2'	43:l6:73:GLY:O	2.31	0.46
40:l3:335:ILE:HG13	40:l3:336:VAL:N	2.29	0.46
44:l7:26:VAL:C	44:l7:28:ALA:H	2.22	0.46
45:l8:195:SER:O	45:l8:197:VAL:N	2.49	0.46
49:m3:108:ILE:O	49:m3:112:ASN:HB2	2.16	0.46
50:m4:27:GLN:H	50:m4:27:GLN:HG2	1.46	0.46
51:m5:138:GLN:HA	51:m5:143:ARG:HD2	1.98	0.46
63:n7:6:LYS:O	63:n7:8:GLY:N	2.48	0.46
64:n8:132:LYS:O	64:n8:136:GLU:HG3	2.15	0.46
67:o1:88:PRO:C	67:o1:89:LEU:HD12	2.40	0.46
68:o2:15:LYS:HE3	68:o2:15:LYS:HB3	1.52	0.46
69:o3:6:ARG:HG3	69:o3:8:TYR:CD1	2.50	0.46
69:o3:6:ARG:NH1	69:o3:8:TYR:O	2.46	0.46
70:o4:5:VAL:HG22	70:o4:6:THR:H	1.80	0.46
1:2:1291:G:N2	1:2:1324:G:N2	2.60	0.46
2:S0:148:ASP:OD2	2:S0:165:ARG:NH1	2.49	0.46
2:S0:185:ARG:H	23:D1:44:ARG:HA	1.79	0.46
3:S1:175:GLU:HG3	3:S1:193:ILE:HD12	1.97	0.46
18:C6:23:LYS:HG3	18:C6:64:ASP:HB2	1.96	0.46
20:C8:128:PHE:HD2	35:SM:61:ILE:HG22	1.80	0.46
28:D6:88:SER:O	28:D6:92:ARG:HG3	2.15	0.46
28:D6:96:ALA:C	28:D6:98:PRO:HD2	2.40	0.46
34:SR:116:ASP:HB3	34:SR:121:MET:HB3	1.97	0.46
36:1:137:G:H2'	36:1:138:U:C6	2.50	0.46
36:1:627:U:H4'	36:1:1399:A:O2'	2.16	0.46
36:1:2174:G:P	39:L2:193:ARG:HH11	2.35	0.46
36:1:2838:A:C2	36:1:2839:G:H1'	2.50	0.46
36:1:3279:A:C6	36:1:3280:U:C4	3.04	0.46
41:L4:143:GLU:O	85:L4:401:OHX:N5	2.49	0.46
44:L7:111:ILE:O	44:L7:112:ASN:HB2	2.15	0.46
46:L9:89:LYS:HB2	46:L9:183:HIS:HB3	1.96	0.46
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.14	0.46
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.51	0.46
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.51	0.46
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.50	0.46
55:M9:175:GLN:HA	55:M9:178:ALA:HB3	1.97	0.46
58:N2:30:PRO:HA	58:N2:33:TYR:HB3	1.98	0.46
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	1.97	0.46
66:O0:11:ASN:O	66:O0:15:ALA:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:32:GLN:HG2	79:Q3:70:THR:HB	1.96	0.46
1:6:794:U:H4'	1:6:795:U:OP2	2.13	0.46
1:6:868:G:O6	85:6:2021:OHX:N5	2.48	0.46
1:6:1192:C:O3'	18:c6:140:LYS:NZ	2.45	0.46
1:6:1594:G:C6	1:6:1595:U:N3	2.83	0.46
1:6:1701:A:H3'	1:6:1702:A:H5''	1.97	0.46
5:s3:76:ARG:HG3	12:c0:65:TYR:OH	2.15	0.46
6:s4:62:LYS:CE	6:s4:66:MET:HE3	2.45	0.46
7:s5:59:VAL:C	7:s5:61:TYR:H	2.22	0.46
7:s5:62:VAL:HG11	7:s5:134:VAL:HG13	1.97	0.46
10:s8:25:ARG:O	10:s8:28:GLU:HG2	2.15	0.46
21:c9:16:ASN:HA	21:c9:56:LYS:NZ	2.31	0.46
36:5:283:G:OP2	36:5:285:A:O2'	2.27	0.46
36:5:374:A:N3	36:5:376:G:H5''	2.30	0.46
36:5:980:A:H2'	36:5:981:U:N1	2.30	0.46
36:5:1190:A:C8	36:5:1193:A:H1'	2.50	0.46
36:5:1214:U:H2'	36:5:1215:U:C6	2.51	0.46
36:5:1560:G:C6	36:5:1580:A:N6	2.83	0.46
36:5:2653:C:OP2	78:q2:88:CYS:HA	2.16	0.46
39:l2:49:VAL:O	39:l2:58:LEU:N	2.33	0.46
43:l6:31:ARG:C	43:l6:33:SER:H	2.23	0.46
54:m8:178:ARG:HG2	64:n8:51:GLY:CA	2.44	0.46
62:n6:126:LEU:HB3	62:n6:127:GLU:CD	2.41	0.46
63:n7:85:TYR:HE2	63:n7:129:TRP:CE2	2.33	0.46
1:2:83:G:OP2	85:2:2025:OHX:N5	2.49	0.46
1:2:328:A:H2'	1:2:329:G:O4'	2.16	0.46
1:2:391:A:O2'	1:2:1730:A:H4'	2.16	0.46
1:2:552:G:C6	1:2:553:G:C6	3.04	0.46
1:2:780:A:H8	26:D4:8:ARG:HB2	1.80	0.46
1:2:1078:C:H2'	1:2:1079:U:H6	1.81	0.46
1:2:1488:G:H5'	1:2:1489:U:OP1	2.16	0.46
2:S0:110:TYR:CE1	2:S0:111:ILE:HD13	2.50	0.46
7:S5:61:TYR:HD1	7:S5:165:LEU:HD13	1.80	0.46
10:S8:36:THR:HB	10:S8:57:ALA:O	2.16	0.46
11:S9:53:ARG:NH2	11:S9:97:LEU:O	2.49	0.46
36:1:32:U:O3'	51:M5:71:ARG:NH2	2.48	0.46
36:1:284:A:OP2	78:Q2:41:ARG:NH1	2.48	0.46
36:1:975:C:H2'	36:1:976:U:C6	2.51	0.46
36:1:1019:G:H2'	36:1:1020:G:O4'	2.15	0.46
36:1:1033:U:H2'	36:1:1034:U:C6	2.51	0.46
36:1:1230:G:H2'	36:1:1231:A:C8	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1274:A:H2'	36:1:1275:C:H6	1.79	0.46
36:1:1504:A:C5	36:1:1505:C:C5	3.04	0.46
36:1:2443:A:N6	36:1:2504:U:C4	2.83	0.46
85:1:3912:OHX:N5	85:1:4012:OHX:N1	2.64	0.46
39:L2:183:GLY:HA2	39:L2:186:PHE:HB3	1.97	0.46
47:M0:87:LEU:HA	47:M0:138:VAL:HG22	1.98	0.46
52:M6:62:THR:HG21	52:M6:68:ARG:HG3	1.98	0.46
54:M8:102:ALA:HA	54:M8:122:ILE:O	2.16	0.46
62:N6:32:SER:HA	62:N6:49:PRO:HA	1.98	0.46
69:O3:13:HIS:HB3	69:O3:93:THR:O	2.16	0.46
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.50	0.46
74:O8:23:ALA:HB3	74:O8:73:LEU:HD21	1.96	0.46
78:Q2:3:ASN:HB2	78:Q2:92:GLU:OE2	2.15	0.46
1:6:271:A:H5'	1:6:272:U:OP2	2.16	0.46
1:6:512:A:O2'	11:s9:133:HIS:CE1	2.68	0.46
1:6:848:C:H2'	1:6:849:C:C6	2.50	0.46
1:6:1541:G:C6	1:6:1542:G:N1	2.84	0.46
2:s0:139:VAL:HG13	2:s0:141:ILE:HG13	1.98	0.46
7:s5:68:ILE:HD13	7:s5:69:PHE:H	1.79	0.46
24:d2:114:GLU:O	24:d2:117:ARG:HB3	2.16	0.46
36:5:271:C:H2'	36:5:272:G:O4'	2.15	0.46
36:5:1525:G:C6	36:5:1526:U:O4	2.69	0.46
36:5:1596:C:O2'	36:5:1696:A:N3	2.41	0.46
36:5:1760:A:H5'	36:5:1761:C:OP2	2.14	0.46
36:5:1816:A:O2'	36:5:1817:G:OP1	2.22	0.46
36:5:2874:G:O2'	36:5:2875:U:C6	2.68	0.46
85:5:3844:OHX:N4	37:7:86:U:O2'	2.48	0.46
39:l2:68:LYS:HD3	39:l2:70:ARG:HH21	1.80	0.46
40:l3:107:ALA:HA	40:l3:199:PHE:CD2	2.51	0.46
47:m0:52:LEU:HD23	47:m0:165:ILE:HG12	1.98	0.46
49:m3:144:THR:C	49:m3:146:PRO:HD3	2.41	0.46
52:m6:34:VAL:HG11	52:m6:112:TYR:CE1	2.51	0.46
61:n5:38:LEU:O	61:n5:39:LYS:HB2	2.16	0.46
62:n6:59:VAL:HG22	62:n6:103:LYS:O	2.16	0.46
66:o0:26:GLY:O	66:o0:30:THR:HG23	2.15	0.46
66:o0:42:ILE:HG13	66:o0:67:VAL:HG13	1.96	0.46
77:q1:2:ARG:NH1	77:q1:4:LYS:HD2	2.31	0.46
79:q3:13:LYS:NZ	79:q3:30:GLU:OE1	2.37	0.46
81:p0:190:VAL:HB	81:p0:197:PHE:HB2	1.97	0.46
1:2:17:C:H2'	1:2:18:C:C6	2.50	0.46
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:154:G:H5'	8:S6:108:VAL:HG21	1.97	0.46
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.49	0.46
1:2:1142:A:H2'	1:2:1143:A:C8	2.50	0.46
1:2:1217:A:H8	1:2:1217:A:H5'	1.81	0.46
1:2:1225:U:H2'	1:2:1226:A:O4'	2.15	0.46
1:2:1308:G:C2	1:2:1309:C:C2	3.04	0.46
1:2:1582:U:OP1	18:C6:135:ARG:HD2	2.15	0.46
3:S1:104:ASP:HA	3:S1:214:LYS:HE2	1.97	0.46
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.98	0.46
9:S7:56:LYS:O	9:S7:88:ARG:HA	2.15	0.46
15:C3:23:PRO:HD2	15:C3:26:PHE:HB3	1.97	0.46
34:SR:33:LEU:O	34:SR:44:SER:HA	2.16	0.46
36:1:147:U:H3	45:L8:159:PRO:HD2	1.80	0.46
36:1:600:G:H5''	36:1:600:G:H8	1.80	0.46
36:1:848:A:H2'	36:1:849:C:O4'	2.16	0.46
36:1:1035:G:H2'	36:1:1036:A:C8	2.50	0.46
36:1:1245:A:C3'	36:1:1246:G:H5''	2.45	0.46
36:1:1500:G:H2'	36:1:1501:U:O4'	2.16	0.46
36:1:1815:U:O2'	36:1:1816:A:P	2.74	0.46
36:1:3296:A:H2'	36:1:3297:U:O4'	2.16	0.46
38:4:10:A:H2'	38:4:11:C:C6	2.51	0.46
39:L2:143:GLU:O	39:L2:145:LYS:HG2	2.14	0.46
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.80	0.46
58:N2:33:TYR:CE2	58:N2:63:VAL:HG21	2.51	0.46
70:O4:66:SER:HB2	70:O4:69:HIS:CE1	2.50	0.46
1:6:872:G:H2'	1:6:873:U:O4'	2.15	0.46
85:6:2116:OHX:N6	85:6:2152:OHX:N4	2.63	0.46
4:s2:165:VAL:HG11	4:s2:210:THR:HA	1.98	0.46
11:s9:78:ARG:HG3	11:s9:79:ARG:N	2.30	0.46
21:c9:28:LEU:HB3	21:c9:29:GLU:H	1.49	0.46
21:c9:76:LEU:HB3	21:c9:101:ASN:ND2	2.31	0.46
29:d7:2:VAL:O	29:d7:3:LEU:HB2	2.15	0.46
34:sR:38:ARG:HA	34:sR:67:ILE:HG23	1.96	0.46
36:5:73:C:O2	49:m3:59:ARG:HD3	2.16	0.46
36:5:238:A:O2'	36:5:239:G:OP1	2.32	0.46
36:5:1301:A:H8	36:5:1301:A:OP1	1.98	0.46
36:5:1381:A:OP1	41:l4:197:ARG:NH1	2.49	0.46
36:5:1554:U:H4'	36:5:1555:U:OP1	2.14	0.46
36:5:2674:A:H5''	48:m1:105:GLY:HA3	1.98	0.46
36:5:3054:U:OP2	85:5:3749:OHX:N6	2.49	0.46
36:5:3112:G:O6	36:5:3120:C:H5''	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3340:G:H4'	36:5:3341:U:OP1	2.15	0.46
85:5:3835:OHX:N4	38:8:112:U:O2	2.49	0.46
38:8:134:G:OP1	61:n5:56:ARG:HG2	2.16	0.46
41:l4:23:PRO:O	41:l4:24:ALA:HB3	2.15	0.46
41:l4:77:VAL:HB	41:l4:85:SER:HA	1.97	0.46
49:m3:44:ALA:O	49:m3:46:ILE:N	2.49	0.46
63:n7:81:LEU:HD22	63:n7:81:LEU:HA	1.66	0.46
78:q2:10:THR:HA	78:q2:20:HIS:CD2	2.51	0.46
81:p0:69:ASP:OD1	81:p0:69:ASP:N	2.40	0.46
1:2:46:A:N6	1:2:433:C:H4'	2.31	0.46
1:2:58:U:O4	85:2:2005:OHX:N1	2.49	0.46
1:2:195:G:H2'	1:2:196:G:H5''	1.98	0.46
1:2:516:G:H22	1:2:537:G:H1'	1.80	0.46
1:2:1194:A:OP2	22:D0:75:GLY:N	2.46	0.46
1:2:1228:G:OP2	14:C2:119:SER:OG	2.32	0.46
1:2:1525:A:H5'	21:C9:93:HIS:HB2	1.97	0.46
1:2:1672:G:H2'	1:2:1673:G:C8	2.51	0.46
1:2:1783:C:OP2	77:Q1:5:TRP:HD1	1.99	0.46
3:S1:35:PRO:HB2	3:S1:36:SER:H	1.59	0.46
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	1.96	0.46
5:S3:177:MET:SD	5:S3:182:LEU:HD11	2.56	0.46
6:S4:37:LYS:HB2	6:S4:40:GLU:HG2	1.96	0.46
7:S5:42:LEU:HB2	7:S5:46:TRP:O	2.15	0.46
8:S6:98:ARG:HD3	8:S6:99:GLY:N	2.31	0.46
13:C1:22:ASN:HA	13:C1:23:PRO:HD3	1.75	0.46
14:C2:32:LEU:O	14:C2:36:LEU:N	2.49	0.46
16:C4:117:ASP:OD1	16:C4:119:THR:HG23	2.15	0.46
23:D1:40:ASP:HB3	23:D1:46:ILE:HD11	1.96	0.46
24:D2:17:ALA:HB2	24:D2:25:VAL:HG13	1.97	0.46
27:D5:39:ALA:HB1	27:D5:71:ILE:N	2.30	0.46
28:D6:79:ILE:O	28:D6:84:VAL:HG11	2.16	0.46
36:1:695:C:O2'	36:1:696:C:H5'	2.16	0.46
36:1:1282:G:C6	36:1:1283:C:C4	3.03	0.46
36:1:1743:G:H2'	36:1:1744:G:C8	2.50	0.46
36:1:1861:G:OP2	85:1:3812:OHX:N1	2.48	0.46
36:1:2727:A:H4'	36:1:2728:G:OP2	2.15	0.46
37:3:8:G:OP1	42:L5:33:ARG:NE	2.38	0.46
40:L3:41:VAL:HA	40:L3:185:GLY:CA	2.39	0.46
42:L5:219:PHE:HE1	42:L5:227:LEU:HD11	1.81	0.46
46:L9:1:MET:SD	56:N0:138:GLN:HG2	2.56	0.46
50:M4:109:ARG:HD3	52:M6:199:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:18:ILE:HG12	66:O0:81:VAL:O	2.16	0.46
72:O6:45:ARG:NH2	72:O6:54:GLU:OE2	2.49	0.46
73:O7:18:LEU:HD12	75:O9:8:ARG:HD2	1.97	0.46
1:6:452:A:H3'	1:6:453:U:C5	2.50	0.46
1:6:542:A:H1'	1:6:543:C:H5'	1.96	0.46
1:6:1765:A:OP2	85:6:2088:OHX:N4	2.49	0.46
4:s2:139:ILE:CD1	4:s2:191:ALA:HB1	2.46	0.46
4:s2:153:SER:HB3	4:s2:154:LEU:H	1.51	0.46
6:s4:26:CYS:HB2	6:s4:27:TYR:CE2	2.51	0.46
7:s5:51:VAL:HG13	7:s5:131:GLN:HB2	1.98	0.46
8:s6:70:PRO:O	8:s6:98:ARG:NH1	2.48	0.46
8:s6:173:PRO:HB2	8:s6:174:LYS:H	1.51	0.46
10:s8:151:LYS:HA	10:s8:151:LYS:HD2	1.65	0.46
19:c7:7:LYS:O	19:c7:11:ARG:HB2	2.16	0.46
21:c9:132:LEU:O	21:c9:136:ALA:N	2.47	0.46
27:d5:57:TYR:CD2	27:d5:57:TYR:N	2.84	0.46
31:d9:20:GLN:HB2	31:d9:25:SER:HA	1.98	0.46
36:5:381:U:H2'	36:5:382:U:C6	2.50	0.46
36:5:2520:A:H2'	36:5:2521:U:H6	1.81	0.46
36:5:2801:A:O2'	36:5:2802:A:H2'	2.16	0.46
39:l2:19:HIS:CD2	39:l2:19:HIS:N	2.84	0.46
42:l5:155:THR:HG22	42:l5:179:ARG:NH1	2.31	0.46
44:l7:125:GLU:OE1	44:l7:128:LYS:HD2	2.15	0.46
49:m3:91:ARG:NH2	49:m3:97:VAL:HB	2.31	0.46
53:m7:64:ASN:O	53:m7:67:ILE:HG12	2.16	0.46
55:m9:40:ALA:O	55:m9:44:LEU:HG	2.16	0.46
62:n6:74:TYR:CZ	62:n6:77:LYS:HD2	2.50	0.46
65:n9:43:HIS:CE1	65:n9:47:LEU:HD11	2.51	0.46
70:o4:8:ARG:NH2	70:o4:31:ARG:HH11	2.13	0.46
75:o9:24:PRO:HB2	75:o9:27:ILE:HG13	1.98	0.46
1:2:460:A:H3'	1:2:461:G:H8	1.80	0.46
2:S0:120:LEU:HD21	2:S0:144:ILE:HD11	1.97	0.46
3:S1:89:ASP:HB3	3:S1:223:PHE:CE2	2.47	0.46
4:S2:212:LYS:HE2	4:S2:212:LYS:HB3	1.76	0.46
6:S4:106:LYS:HB2	6:S4:108:ARG:HG3	1.98	0.46
17:C5:20:VAL:HG13	17:C5:24:LYS:HD2	1.98	0.46
18:C6:31:VAL:HG13	18:C6:67:VAL:HB	1.97	0.46
19:C7:21:TYR:OH	19:C7:62:GLN:OE1	2.32	0.46
20:C8:110:ARG:NH1	20:C8:114:GLU:HG3	2.31	0.46
23:D1:20:THR:O	24:D2:67:GLY:HA3	2.16	0.46
23:D1:36:VAL:HG11	23:D1:78:LEU:HD13	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:19:LYS:HB2	28:D6:19:LYS:HE3	1.76	0.46
34:SR:110:VAL:HA	34:SR:126:SER:HB2	1.97	0.46
36:1:137:G:H2'	36:1:138:U:H6	1.81	0.46
36:1:147:U:OP2	45:L8:136:LEU:N	2.46	0.46
36:1:204:A:H2'	36:1:205:C:C6	2.51	0.46
36:1:641:C:H2'	36:1:642:U:O4'	2.16	0.46
36:1:1062:A:H5''	36:1:1063:G:H5'	1.97	0.46
36:1:1577:G:H2'	36:1:1578:C:O4'	2.16	0.46
36:1:1701:C:H2'	36:1:1702:U:O4'	2.16	0.46
36:1:2207:A:C6	36:1:2208:A:N7	2.84	0.46
36:1:2714:G:H4'	36:1:2715:A:H5''	1.98	0.46
36:1:3018:C:H2'	36:1:3019:U:O4'	2.15	0.46
85:1:3940:OHX:N6	85:1:4004:OHX:N3	2.63	0.46
37:3:7:G:OP2	42:L5:22:ARG:NH2	2.48	0.46
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.15	0.46
51:M5:53:TYR:CD1	51:M5:61:ILE:HD11	2.50	0.46
65:N9:31:SER:C	65:N9:33:LYS:H	2.24	0.46
1:6:88:U:H4'	1:6:171:A:O4'	2.16	0.46
1:6:555:A:H2'	1:6:556:A:C8	2.51	0.46
1:6:600:U:OP2	25:d3:108:GLY:HA2	2.16	0.46
1:6:982:U:O4	1:6:983:A:N6	2.49	0.46
1:6:1451:C:H2'	1:6:1452:U:H6	1.81	0.46
1:6:1491:U:H5'	1:6:1492:A:OP1	2.16	0.46
1:6:1516:A:OP1	22:d0:88:LYS:NZ	2.37	0.46
2:s0:87:LEU:HD13	2:s0:87:LEU:HA	1.76	0.46
2:s0:205:ARG:NH2	19:c7:84:TYR:HB3	2.31	0.46
4:s2:41:LEU:O	4:s2:45:VAL:HG23	2.16	0.46
5:s3:211:PRO:HG2	19:c7:19:ARG:HB2	1.98	0.46
8:s6:57:ASP:OD1	8:s6:72:ARG:NH1	2.49	0.46
9:s7:63:PRO:O	9:s7:64:VAL:HB	2.16	0.46
15:c3:12:SER:O	15:c3:12:SER:OG	2.30	0.46
20:c8:50:ALA:HB2	20:c8:72:ILE:HD12	1.98	0.46
26:d4:122:GLY:O	26:d4:125:LEU:N	2.49	0.46
35:sM:43:ASP:HA	35:sM:44:PRO:HD3	1.78	0.46
36:5:51:A:H2'	36:5:52:A:O4'	2.15	0.46
36:5:640:U:OP1	68:o2:37:GLY:HA2	2.16	0.46
36:5:1103:A:H3'	36:5:1104:G:C5'	2.42	0.46
36:5:1812:G:O6	63:n7:64:LYS:HD2	2.16	0.46
36:5:2131:A:H61	79:q3:18:TYR:H	1.63	0.46
85:5:4049:OHX:N1	85:5:4054:OHX:N5	2.63	0.46
37:7:22:A:H1'	42:l5:272:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:55:A:H2'	37:7:56:A:O4'	2.16	0.46
39:12:79:ASN:HD21	39:12:114:SER:HB3	1.80	0.46
44:17:233:GLU:CD	56:n0:35:VAL:HG22	2.40	0.46
48:m1:96:PHE:CE1	48:m1:160:VAL:HG23	2.51	0.46
49:m3:25:HIS:CD2	51:m5:200:TRP:CD2	3.04	0.46
58:n2:36:TYR:CD2	58:n2:83:TYR:HB2	2.50	0.46
59:n3:2:SER:HG	59:n3:3:GLY:H	1.55	0.46
73:o7:25:ARG:HG3	75:o9:51:ILE:HD12	1.98	0.46
1:2:341:A:H2'	1:2:342:C:C6	2.51	0.46
1:2:916:U:OP2	85:2:2103:OHX:N6	2.48	0.46
1:2:1091:A:N3	1:2:1091:A:H5''	2.31	0.46
1:2:1101:G:O3'	24:D2:76:SER:OG	2.29	0.46
1:2:1570:A:H2'	1:2:1571:C:O4'	2.16	0.46
9:S7:157:LYS:O	9:S7:159:VAL:HG13	2.15	0.46
9:S7:177:THR:OG1	9:S7:178:GLY:N	2.49	0.46
10:S8:83:TYR:HB3	10:S8:101:ILE:HB	1.98	0.46
13:C1:59:PRO:HG2	13:C1:60:PHE:CE2	2.51	0.46
17:C5:45:PHE:CE2	17:C5:84:ILE:HD12	2.51	0.46
21:C9:14:PHE:CE2	21:C9:63:ARG:HD3	2.51	0.46
25:D3:69:ARG:NH1	25:D3:116:ASP:OD1	2.48	0.46
36:1:898:U:H2'	36:1:899:U:O4'	2.16	0.46
36:1:1073:U:H1'	65:N9:50:THR:HB	1.98	0.46
36:1:1108:U:H2'	36:1:1109:U:C6	2.50	0.46
36:1:1176:C:H2'	36:1:1177:G:N2	2.31	0.46
36:1:1856:C:H2'	36:1:1857:C:H6	1.81	0.46
36:1:2294:U:O2	36:1:2296:A:H8	1.98	0.46
36:1:2509:U:C4	36:1:2510:U:C4	3.04	0.46
39:L2:179:LEU:HD12	39:L2:184:ARG:HB3	1.97	0.46
41:L4:330:TYR:CZ	44:L7:49:ALA:HA	2.51	0.46
42:L5:227:LEU:O	42:L5:230:ASP:N	2.35	0.46
44:L7:184:LEU:HA	44:L7:184:LEU:HD23	1.66	0.46
51:M5:144:ARG:O	71:O5:99:GLN:HG2	2.16	0.46
67:O1:82:GLU:O	67:O1:82:GLU:HG2	2.15	0.46
69:O3:60:ARG:HB2	69:O3:60:ARG:HH21	1.81	0.46
77:Q1:6:ARG:O	77:Q1:10:THR:HG23	2.15	0.46
79:Q3:59:CYS:O	79:Q3:60:CYS:HB3	2.16	0.46
1:6:194:U:O2	1:6:194:U:H2'	2.16	0.46
1:6:703:G:H1	1:6:735:C:H42	1.62	0.46
1:6:906:A:H2'	1:6:907:A:H8	1.81	0.46
1:6:1000:C:N4	1:6:1003:A:OP2	2.41	0.46
1:6:1797:A:C6	28:d6:87:ARG:HD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:146:THR:CG2	7:s5:157:ARG:HB3	2.46	0.46
26:d4:57:VAL:HB	26:d4:60:PHE:HE2	1.80	0.46
26:d4:57:VAL:HB	26:d4:60:PHE:CE2	2.50	0.46
26:d4:58:PHE:CE2	26:d4:72:PHE:HB3	2.50	0.46
26:d4:135:ASP:HA	85:d4:201:OHX:N4	2.31	0.46
27:d5:54:VAL:HG11	27:d5:83:LEU:HD13	1.97	0.46
36:5:75:G:H5''	49:m3:58:VAL:CG1	2.41	0.46
36:5:255:A:H2'	36:5:256:G:C8	2.51	0.46
36:5:707:U:H2'	36:5:708:G:H5''	1.97	0.46
36:5:953:G:N2	36:5:1116:G:H2'	2.30	0.46
36:5:1055:A:H4'	37:7:100:C:O2	2.16	0.46
36:5:2169:G:O6	85:5:3798:OHX:N1	2.49	0.46
36:5:2256:A:H2'	36:5:2256:A:OP2	2.15	0.46
36:5:2424:A:OP1	51:m5:90:ASN:ND2	2.48	0.46
36:5:2587:U:H2'	36:5:2588:U:C6	2.51	0.46
36:5:2910:A:N1	85:5:3745:OHX:N4	2.64	0.46
85:5:4025:OHX:N1	85:5:4027:OHX:N4	2.64	0.46
39:l2:45:VAL:HA	39:l2:61:VAL:HA	1.97	0.46
43:l6:129:GLU:HG2	43:l6:130:ILE:N	2.31	0.46
44:l7:154:GLY:N	44:l7:161:VAL:O	2.36	0.46
48:m1:91:LEU:O	48:m1:171:VAL:HA	2.16	0.46
51:m5:104:GLU:O	51:m5:108:ARG:HG3	2.15	0.46
1:2:239:C:H2'	1:2:240:U:C6	2.51	0.46
1:2:445:A:H61	1:2:462:G:H1'	1.80	0.46
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.98	0.46
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.16	0.46
17:C5:33:PHE:O	17:C5:36:LEU:HD23	2.16	0.46
23:D1:5:LYS:H	23:D1:5:LYS:HG2	1.59	0.46
36:1:303:G:C2	36:1:313:A:C2	3.04	0.46
36:1:541:U:H2'	36:1:542:G:C8	2.50	0.46
36:1:800:G:H2'	36:1:801:A:N7	2.30	0.46
36:1:900:G:H1'	36:1:1589:A:N6	2.30	0.46
36:1:1543:G:OP1	51:M5:35:VAL:HG23	2.16	0.46
36:1:1595:U:C2	36:1:1596:C:C5	3.04	0.46
36:1:1917:C:P	55:M9:85:ARG:HH12	2.39	0.46
36:1:3002:C:O2'	40:L3:180:GLU:OE2	2.25	0.46
39:L2:79:ASN:HD22	39:L2:165:VAL:HG22	1.81	0.46
40:L3:36:ASP:OD1	40:L3:38:SER:OG	2.34	0.46
40:L3:116:ARG:HG2	40:L3:175:LYS:HA	1.97	0.46
44:L7:76:TYR:HE2	44:L7:78:GLU:HG2	1.81	0.46
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.77	0.46
45:L8:147:LYS:O	45:L8:201:THR:HB	2.16	0.46
57:N1:14:MET:HE2	57:N1:15:PHE:CE2	2.50	0.46
1:6:1241:G:H5''	17:c5:102:PHE:HZ	1.81	0.46
3:s1:28:GLU:C	3:s1:29:TRP:CD1	2.94	0.46
6:s4:87:MET:HE3	6:s4:226:PHE:CE1	2.50	0.46
7:s5:133:VAL:HG22	7:s5:198:LEU:HD13	1.98	0.46
8:s6:139:ASN:HA	8:s6:142:ARG:HB2	1.98	0.46
12:c0:14:TYR:CE1	12:c0:18:GLU:HG3	2.51	0.46
21:c9:76:LEU:O	21:c9:80:TYR:HD2	1.97	0.46
23:d1:69:LEU:O	23:d1:73:ALA:N	2.47	0.46
25:d3:135:LEU:HD23	25:d3:135:LEU:HA	1.79	0.46
27:d5:40:VAL:HA	27:d5:75:LEU:HD13	1.98	0.46
32:e0:20:LYS:HA	32:e0:20:LYS:HD2	1.73	0.46
36:5:715:A:H4'	36:5:716:A:OP1	2.16	0.46
36:5:850:U:H2'	36:5:851:C:C6	2.51	0.46
36:5:1471:U:H2'	36:5:1472:U:C6	2.51	0.46
36:5:1796:G:H5''	36:5:1797:A:OP1	2.16	0.46
36:5:2584:G:H5'	36:5:2585:G:OP2	2.16	0.46
36:5:2656:A:H4'	78:q2:98:LYS:HD2	1.98	0.46
36:5:2752:U:O2	85:5:4062:OHX:N3	2.48	0.46
40:l3:232:ARG:NH1	40:l3:269:GLN:O	2.48	0.46
42:l5:109:THR:OG1	42:l5:110:LEU:N	2.48	0.46
54:m8:173:GLU:HA	64:n8:51:GLY:C	2.41	0.46
68:o2:31:ASN:OD1	68:o2:31:ASN:N	2.42	0.46
69:o3:10:LYS:O	69:o3:33:GLU:HB3	2.16	0.46
1:2:840:U:O2'	1:2:841:U:H5''	2.16	0.45
85:2:2042:OHX:N6	85:2:2044:OHX:N2	2.64	0.45
3:S1:172:LEU:O	3:S1:176:VAL:HG23	2.16	0.45
5:S3:113:LEU:HD23	5:S3:113:LEU:HA	1.70	0.45
11:S9:14:THR:HA	11:S9:15:PRO:HD2	1.59	0.45
13:C1:109:VAL:HA	13:C1:135:VAL:HG13	1.97	0.45
20:C8:24:GLY:C	20:C8:26:ILE:H	2.24	0.45
36:1:256:G:H2'	36:1:257:U:C6	2.50	0.45
36:1:863:C:H2'	36:1:864:G:O4'	2.16	0.45
36:1:1192:C:O2	85:1:3910:OHX:N3	2.48	0.45
36:1:1635:G:O6	63:N7:17:ARG:HB2	2.17	0.45
36:1:2418:G:H4'	36:1:2419:A:OP1	2.16	0.45
36:1:2633:U:H2'	36:1:2634:U:O4'	2.16	0.45
36:1:2795:U:OP1	78:Q2:62:ALA:N	2.42	0.45
36:1:3013:U:H2'	36:1:3014:U:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:46:A:OP1	42:L5:158:ARG:HG2	2.16	0.45
38:4:55:U:O2	85:4:222:OHX:N2	2.49	0.45
38:4:85:G:C8	38:4:85:G:H3'	2.51	0.45
39:L2:125:ALA:O	39:L2:128:ARG:HD2	2.16	0.45
42:L5:155:THR:HG22	42:L5:179:ARG:NH1	2.31	0.45
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	2.16	0.45
48:M1:31:THR:HA	48:M1:34:SER:HB3	1.98	0.45
52:M6:23:VAL:HG13	52:M6:33:ILE:HG21	1.99	0.45
52:M6:39:GLU:OE1	52:M6:39:GLU:N	2.36	0.45
56:N0:86:GLY:O	56:N0:88:HIS:NE2	2.49	0.45
67:O1:16:LEU:HA	67:O1:16:LEU:HD12	1.79	0.45
74:O8:66:ILE:HA	74:O8:69:LEU:HD23	1.98	0.45
1:6:121:U:H1'	6:s4:33:ALA:O	2.16	0.45
1:6:702:G:N7	85:6:2062:OHX:N4	2.64	0.45
1:6:1592:A:C2	1:6:1605:G:C2	3.03	0.45
4:s2:83:ILE:HA	4:s2:99:LYS:O	2.16	0.45
6:s4:19:LEU:HD11	6:s4:108:ARG:HD3	1.98	0.45
9:s7:46:ILE:HA	9:s7:59:ALA:O	2.16	0.45
36:5:297:G:OP2	36:5:297:G:N2	2.39	0.45
36:5:498:A:H2'	36:5:499:G:C8	2.51	0.45
36:5:817:A:C4	73:o7:13:ASN:O	2.69	0.45
36:5:1335:C:H2'	36:5:1336:U:C6	2.51	0.45
36:5:2220:A:N6	36:5:2221:G:C6	2.84	0.45
36:5:2341:A:O3'	36:5:3090:U:H4'	2.15	0.45
36:5:2355:G:H4'	53:m7:139:TYR:CE2	2.51	0.45
36:5:2922:G:H8	36:5:2922:G:O5'	1.99	0.45
36:5:3246:G:O6	85:5:4051:OHX:N5	2.50	0.45
39:l2:15:ILE:HD12	39:l2:15:ILE:HA	1.61	0.45
42:l5:290:ILE:O	42:l5:293:LEU:N	2.50	0.45
44:l7:121:LYS:O	44:l7:121:LYS:HD3	2.16	0.45
45:l8:105:LYS:HG2	45:l8:109:LEU:HD23	1.97	0.45
46:l9:112:ILE:N	46:l9:126:VAL:O	2.41	0.45
49:m3:3:ILE:HD12	64:n8:41:HIS:HB3	1.97	0.45
58:n2:97:SER:HB2	58:n2:103:TYR:CE1	2.51	0.45
64:n8:133:LEU:O	64:n8:133:LEU:HD22	2.16	0.45
65:n9:23:LYS:HD3	65:n9:23:LYS:HA	1.74	0.45
78:q2:22:GLN:O	78:q2:75:VAL:HG22	2.16	0.45
1:2:72:A:O2'	1:2:73:U:O4'	2.32	0.45
1:2:185:U:H5'	1:2:186:C:OP2	2.16	0.45
1:2:457:G:H2'	1:2:458:G:O4'	2.16	0.45
1:2:1029:U:OP2	28:D6:12:LYS:NZ	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1237:G:H1	1:2:1248:C:H42	1.64	0.45
1:2:1360:A:O2'	21:C9:2:PRO:O	2.34	0.45
2:S0:51:GLY:O	2:S0:55:GLU:HG3	2.17	0.45
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.46	0.45
5:S3:18:TYR:HE1	5:S3:37:VAL:HG23	1.82	0.45
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	1.98	0.45
7:S5:222:LYS:HG3	7:S5:225:ARG:NH2	2.31	0.45
9:S7:154:LEU:HD21	9:S7:183:PHE:HD1	1.81	0.45
15:C3:52:VAL:HG22	15:C3:55:ARG:NH2	2.30	0.45
15:C3:94:LYS:HG2	15:C3:118:ILE:HD13	1.98	0.45
16:C4:86:THR:HG21	16:C4:90:ARG:HD2	1.97	0.45
18:C6:48:VAL:HG23	18:C6:82:ARG:HB3	1.98	0.45
20:C8:11:PHE:HB2	20:C8:60:GLU:HA	1.98	0.45
25:D3:5:LYS:HA	25:D3:6:PRO:HD2	1.74	0.45
27:D5:40:VAL:C	27:D5:75:LEU:HD11	2.41	0.45
34:SR:41:THR:HG22	34:SR:62:LYS:HG2	1.97	0.45
36:1:1157:G:C2	36:1:1158:A:H1'	2.52	0.45
36:1:1170:A:H2'	36:1:1171:G:O4'	2.16	0.45
36:1:1204:A:N1	36:1:2834:G:O2'	2.46	0.45
36:1:1863:G:N1	36:1:1866:C:OP2	2.46	0.45
36:1:2118:C:H2'	36:1:2119:A:O4'	2.15	0.45
36:1:3082:C:H2'	36:1:3083:G:H8	1.81	0.45
41:L4:258:LEU:HD12	41:L4:258:LEU:HA	1.84	0.45
54:M8:34:THR:HG22	54:M8:49:LEU:HD21	1.99	0.45
56:N0:23:LYS:HD2	56:N0:25:PHE:CZ	2.52	0.45
56:N0:87:THR:C	56:N0:88:HIS:CG	2.94	0.45
62:N6:39:LEU:HD23	62:N6:39:LEU:HA	1.80	0.45
79:Q3:3:LYS:HB3	79:Q3:3:LYS:HE2	1.75	0.45
1:6:1031:U:H4'	1:6:1032:G:OP2	2.15	0.45
1:6:1166:A:H2'	1:6:1167:G:O4'	2.17	0.45
1:6:1458:G:H5''	1:6:1459:C:OP2	2.16	0.45
1:6:1564:U:H2'	1:6:1565:C:H6	1.79	0.45
2:s0:106:SER:O	2:s0:115:PHE:HD2	1.99	0.45
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.56	0.45
2:s0:153:SER:O	2:s0:156:VAL:HG22	2.16	0.45
7:s5:27:THR:O	7:s5:29:ILE:HG13	2.16	0.45
9:s7:126:LEU:HD13	9:s7:173:TYR:CD2	2.51	0.45
14:c2:75:VAL:HG21	14:c2:120:VAL:HG21	1.98	0.45
18:c6:38:LEU:O	18:c6:40:GLU:N	2.50	0.45
18:c6:103:ASN:O	18:c6:107:LYS:HB2	2.15	0.45
20:c8:82:PRO:HG3	21:c9:36:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d2:27:ILE:HB	24:d2:61:ILE:HB	1.97	0.45
24:d2:67:GLY:O	24:d2:69:LEU:N	2.49	0.45
36:5:1213:G:N2	36:5:1293:U:C2	2.84	0.45
36:5:1773:C:H2'	36:5:1774:C:C6	2.51	0.45
36:5:2828:G:H5'	47:m0:8:CYS:SG	2.56	0.45
36:5:3160:U:C2	36:5:3291:G:C2	3.04	0.45
37:7:68:C:OP1	42:l5:14:SER:OG	2.33	0.45
38:8:39:G:N3	38:8:105:A:C2	2.85	0.45
48:m1:96:PHE:CD1	48:m1:160:VAL:HG23	2.51	0.45
68:o2:57:TYR:O	68:o2:58:GLY:C	2.60	0.45
1:2:144:U:H5	8:S6:137:ARG:HH12	1.62	0.45
1:2:288:A:H2'	1:2:289:U:C6	2.51	0.45
1:2:463:U:H2'	1:2:464:A:H8	1.80	0.45
1:2:843:U:H2'	1:2:844:A:H8	1.80	0.45
1:2:887:A:C1'	16:C4:122:PRO:HB3	2.44	0.45
1:2:1201:G:H22	1:2:1600:A:H5''	1.82	0.45
2:S0:165:ARG:HD3	2:S0:165:ARG:HA	1.67	0.45
8:S6:141:ILE:HG21	8:S6:153:VAL:HG13	1.98	0.45
11:S9:38:ASN:HB3	11:S9:40:LYS:H	1.81	0.45
14:C2:64:SER:OG	14:C2:65:SER:N	2.49	0.45
15:C3:16:ILE:HA	15:C3:17:PRO:HD3	1.76	0.45
29:D7:73:LEU:H	29:D7:73:LEU:HD12	1.80	0.45
35:SM:61:ILE:H	35:SM:61:ILE:HG13	1.56	0.45
36:1:72:C:C2	36:1:74:G:H1'	2.50	0.45
36:1:129:U:H2'	36:1:130:A:C8	2.51	0.45
36:1:595:G:C8	36:1:609:G:C6	3.04	0.45
36:1:872:U:H2'	36:1:873:C:C6	2.50	0.45
36:1:974:G:H5'	54:M8:16:ARG:HG3	1.98	0.45
36:1:1038:C:H4'	42:L5:5:LYS:NZ	2.32	0.45
36:1:1145:G:H5'	68:O2:46:PHE:CE1	2.50	0.45
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.43	0.45
36:1:2152:A:H2'	36:1:2153:U:H6	1.81	0.45
36:1:2367:A:H2'	36:1:2368:A:C8	2.51	0.45
36:1:2655:U:H2'	78:Q2:3:ASN:O	2.16	0.45
36:1:2916:U:H1'	59:N3:44:SER:CB	2.46	0.45
36:1:3022:G:O2'	36:1:3031:G:O6	2.30	0.45
36:1:3389:U:O2'	36:1:3390:G:OP2	2.29	0.45
38:4:24:G:OP2	62:N6:13:ARG:HD3	2.17	0.45
38:4:140:G:H2'	38:4:141:C:O4'	2.17	0.45
39:L2:204:MET:HE3	39:L2:208:ASP:CB	2.46	0.45
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:105:VAL:HG12	61:N5:106:ASP:N	2.32	0.45
61:N5:109:LYS:HB2	61:N5:109:LYS:HE3	1.72	0.45
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.16	0.45
68:O2:21:HIS:HB3	68:O2:24:ARG:HB3	1.98	0.45
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.81	0.45
1:6:1330:G:N2	19:c7:8:THR:HG21	2.30	0.45
1:6:1334:U:H2'	1:6:1335:U:C6	2.51	0.45
1:6:1398:U:H3'	1:6:1399:C:H4'	1.99	0.45
3:s1:81:PHE:HD2	3:s1:82:ARG:H	1.64	0.45
8:s6:216:LEU:HD23	8:s6:216:LEU:HA	1.81	0.45
11:s9:123:HIS:CD2	32:e0:33:ARG:HE	2.32	0.45
14:c2:40:GLY:O	14:c2:124:LYS:N	2.48	0.45
15:c3:16:ILE:HD12	15:c3:16:ILE:HA	1.80	0.45
20:c8:15:LEU:HD11	20:c8:58:ALA:O	2.15	0.45
36:5:174:C:H2'	36:5:175:C:O4'	2.16	0.45
36:5:1152:G:C8	36:5:1152:G:OP2	2.69	0.45
36:5:1347:U:H3'	54:m8:38:ARG:NH2	2.31	0.45
36:5:1921:A:H2'	36:5:1922:A:H8	1.81	0.45
36:5:2393:G:H4'	40:l3:252:ILE:HG12	1.99	0.45
36:5:2768:U:H2'	36:5:2769:A:C8	2.51	0.45
36:5:2875:U:C2'	36:5:2876:C:O5'	2.64	0.45
85:5:3877:OHX:N5	85:5:3923:OHX:N2	2.64	0.45
37:7:77:G:N7	56:n0:52:LYS:HD3	2.31	0.45
39:l2:214:GLY:O	39:l2:215:ASN:HB2	2.16	0.45
41:l4:280:ILE:O	54:m8:29:LEU:HD11	2.16	0.45
42:l5:119:TYR:HE1	42:l5:134:ALA:HA	1.82	0.45
52:m6:108:ILE:HG12	52:m6:160:ARG:HD2	1.98	0.45
55:m9:43:LYS:N	55:m9:43:LYS:HD2	2.31	0.45
60:n4:77:LYS:HB3	60:n4:78:ALA:H	1.54	0.45
65:n9:18:ARG:O	85:n9:102:OHX:N4	2.49	0.45
79:q3:8:VAL:HG23	79:q3:9:GLY:H	1.81	0.45
79:q3:84:ARG:HA	79:q3:87:ARG:NH1	2.31	0.45
1:2:338:C:H1'	10:S8:5:ARG:HB3	1.99	0.45
1:2:698:U:O4	85:2:2056:OHX:N3	2.50	0.45
1:2:948:G:H2'	1:2:949:C:O4'	2.16	0.45
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	1.98	0.45
6:S4:194:THR:O	6:S4:195:ILE:HB	2.16	0.45
6:S4:211:LYS:NZ	6:S4:215:ASP:HA	2.32	0.45
13:C1:53:TYR:CG	13:C1:113:PRO:HG2	2.52	0.45
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.17	0.45
28:D6:73:TYR:HB3	28:D6:78:ALA:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:278:PHE:HB3	34:SR:281:TYR:CE1	2.51	0.45
36:1:971:G:H2'	36:1:972:A:O4'	2.16	0.45
36:1:1221:A:H3'	36:1:1222:G:H5''	1.98	0.45
36:1:1384:U:H2'	36:1:1385:C:C6	2.51	0.45
36:1:1713:G:H1	36:1:1730:G:HO2'	1.62	0.45
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.49	0.45
36:1:2207:A:C5	36:1:2208:A:N7	2.85	0.45
36:1:3147:G:OP1	85:1:3969:OHX:N6	2.50	0.45
85:1:3851:OHX:N1	85:1:3891:OHX:N2	2.65	0.45
41:L4:222:VAL:HA	41:L4:223:PRO:HD3	1.76	0.45
51:M5:38:ARG:HD2	51:M5:39:ALA:N	2.31	0.45
52:M6:18:ARG:O	52:M6:22:VAL:HG13	2.15	0.45
62:N6:88:GLU:HA	62:N6:94:SER:HA	1.99	0.45
65:N9:58:LYS:HA	65:N9:58:LYS:HD2	1.65	0.45
73:O7:19:CYS:HB3	73:O7:23:GLY:N	2.30	0.45
1:6:138:A:H61	1:6:266:A:H61	1.64	0.45
1:6:1098:U:P	4:s2:168:ARG:HE	2.39	0.45
1:6:1163:A:N3	1:6:1613:U:O2'	2.44	0.45
1:6:1491:U:H4'	1:6:1492:A:C5'	2.47	0.45
5:s3:53:THR:HG21	5:s3:94:ARG:HB3	1.98	0.45
5:s3:64:ARG:O	5:s3:66:ILE:N	2.49	0.45
5:s3:220:PRO:O	5:s3:221:SER:OG	2.28	0.45
6:s4:204:GLY:HA2	85:s4:301:OHX:N6	2.30	0.45
7:s5:217:LEU:HD23	7:s5:217:LEU:HA	1.86	0.45
21:c9:16:ASN:HA	21:c9:56:LYS:HZ3	1.82	0.45
25:d3:30:LYS:HE2	25:d3:34:LEU:HD11	1.99	0.45
36:5:1234:G:H2'	36:5:1235:U:C5	2.52	0.45
36:5:1530:U:OP1	85:5:3835:OHX:N1	2.50	0.45
36:5:2702:A:H5'	36:5:2704:A:O4'	2.17	0.45
36:5:2710:C:H2'	36:5:2711:C:H6	1.82	0.45
36:5:3011:A:N3	36:5:3012:A:H1'	2.30	0.45
36:5:3341:U:H5''	36:5:3342:A:OP2	2.17	0.45
37:7:44:C:C2'	37:7:45:A:H5'	2.46	0.45
38:8:145:U:H2'	38:8:146:U:H6	1.81	0.45
40:l3:152:LYS:HE3	40:l3:192:VAL:HG22	1.98	0.45
41:l4:42:VAL:C	41:l4:44:LYS:H	2.22	0.45
42:l5:122:VAL:O	42:l5:124:GLU:N	2.41	0.45
49:m3:3:ILE:HG12	64:n8:34:MET:HE2	1.98	0.45
50:m4:60:LEU:HA	50:m4:60:LEU:HD23	1.66	0.45
52:m6:106:GLU:H	52:m6:106:GLU:HG2	1.54	0.45
59:n3:90:GLY:O	60:n4:16:GLY:HA2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:o5:5:LYS:O	71:o5:9:LEU:HG	2.16	0.45
82:p1:38:UNK:O	82:p1:42:UNK:N	2.50	0.45
1:2:51:A:OP2	85:2:2031:OHX:N3	2.50	0.45
1:2:144:U:O2'	1:2:145:A:H8	2.00	0.45
1:2:488:G:H4'	1:2:488:G:OP1	2.17	0.45
1:2:776:G:N7	26:D4:11:LYS:HE2	2.30	0.45
1:2:1182:U:H4'	17:C5:124:THR:OG1	2.17	0.45
1:2:1225:U:O2	1:2:1230:A:H4'	2.16	0.45
1:2:1387:G:O2'	1:2:1410:A:N6	2.49	0.45
2:S0:82:GLY:O	2:S0:86:VAL:HG22	2.17	0.45
3:S1:181:LEU:HB2	3:S1:182:ALA:H	1.65	0.45
4:S2:150:GLN:HA	4:S2:151:PRO:HD3	1.75	0.45
4:S2:168:ARG:NH1	4:S2:170:ILE:HD11	2.31	0.45
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.15	0.45
5:S3:144:ALA:HB1	35:SM:101:ASP:OD2	2.16	0.45
7:S5:94:THR:O	7:S5:97:LEU:N	2.50	0.45
11:S9:150:LEU:HB3	11:S9:151:ASP:H	1.60	0.45
14:C2:74:LEU:HD11	33:E1:106:TYR:HD1	1.80	0.45
14:C2:89:ILE:HD13	14:C2:91:VAL:HG23	1.98	0.45
19:C7:57:LEU:HA	19:C7:60:ARG:HG2	1.99	0.45
27:D5:41:ILE:HG23	27:D5:42:LEU:N	2.32	0.45
35:SM:85:SER:O	35:SM:87:THR:N	2.50	0.45
36:1:532:A:H2	36:1:560:G:H22	1.64	0.45
36:1:1709:C:H2'	36:1:1710:C:C6	2.52	0.45
36:1:1953:G:N2	36:1:2093:A:N7	2.64	0.45
36:1:2234:G:N7	85:1:3904:OHX:N1	2.65	0.45
36:1:2601:A:H2'	36:1:2602:G:H8	1.82	0.45
36:1:3027:A:H2'	36:1:3028:G:O4'	2.17	0.45
36:1:3133:C:C2	36:1:3134:A:C8	3.04	0.45
36:1:3298:C:C2	36:1:3299:A:C8	3.04	0.45
36:1:3362:A:H2'	36:1:3363:U:O4'	2.16	0.45
37:3:58:C:H2'	37:3:59:U:H6	1.82	0.45
38:4:127:U:C2'	38:4:128:U:H5'	2.46	0.45
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.99	0.45
40:L3:386:ASP:HB3	40:L3:387:LEU:H	1.55	0.45
42:L5:51:LEU:HB2	42:L5:144:VAL:CG1	2.45	0.45
46:L9:171:ASP:CG	46:L9:173:ARG:HH11	2.24	0.45
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	1.98	0.45
48:M1:89:TYR:O	48:M1:169:ALA:HB1	2.16	0.45
68:O2:64:LYS:O	68:O2:65:PHE:HB2	2.16	0.45
74:O8:56:ILE:HG13	74:O8:65:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:427:C:C4	1:6:428:A:N7	2.84	0.45
1:6:566:C:O2	32:e0:13:LYS:NZ	2.47	0.45
1:6:814:A:C8	1:6:816:G:C8	3.04	0.45
1:6:961:U:H2'	1:6:962:C:H6	1.77	0.45
1:6:1491:U:H4'	1:6:1492:A:H5''	1.98	0.45
1:6:1796:C:OP1	28:d6:87:ARG:HD3	2.17	0.45
2:s0:206:ASP:HB2	2:s0:207:PRO:O	2.16	0.45
9:s7:91:ILE:HD12	9:s7:92:PHE:H	1.82	0.45
25:d3:55:GLU:HA	25:d3:98:GLU:OE2	2.17	0.45
30:d8:54:LEU:HD12	30:d8:55:VAL:H	1.82	0.45
36:5:59:G:H4'	36:5:60:A:H4'	1.97	0.45
36:5:287:G:H2'	36:5:288:C:H6	1.82	0.45
36:5:853:G:N7	79:q3:2:ALA:HB2	2.32	0.45
36:5:1686:U:O2	36:5:1688:U:H1'	2.17	0.45
36:5:1750:A:H4'	36:5:1751:G:H5'	1.98	0.45
36:5:1948:G:C2	36:5:1949:G:C8	3.04	0.45
36:5:2716:U:O4	36:5:2752:U:N3	2.50	0.45
39:l2:82:VAL:HA	39:l2:86:GLN:OE1	2.17	0.45
41:l4:141:ARG:O	41:l4:144:LYS:NZ	2.50	0.45
43:l6:50:LYS:HG2	43:l6:74:VAL:CG2	2.46	0.45
45:l8:231:LYS:HB2	45:l8:231:LYS:HE3	1.65	0.45
46:l9:113:GLU:HA	46:l9:124:ARG:O	2.16	0.45
51:m5:140:LYS:O	51:m5:144:ARG:HG3	2.17	0.45
52:m6:43:ILE:HD11	52:m6:138:LEU:HD13	1.98	0.45
52:m6:188:SER:O	52:m6:192:LYS:HG2	2.17	0.45
57:n1:14:MET:HE1	57:n1:55:LYS:CB	2.42	0.45
75:o9:5:LYS:HE2	75:o9:5:LYS:HB3	1.71	0.45
81:p0:202:LEU:O	81:p0:204:ILE:N	2.50	0.45
1:2:538:A:H8	1:2:543:C:N4	2.15	0.45
1:2:912:U:H4'	1:2:913:G:O5'	2.17	0.45
1:2:1530:C:OP1	27:D5:95:HIS:HB2	2.17	0.45
6:S4:130:GLN:HB2	6:S4:138:TYR:CE2	2.51	0.45
7:S5:57:SER:O	7:S5:59:VAL:HG23	2.16	0.45
8:S6:7:TYR:HD2	8:S6:8:PRO:HD2	1.82	0.45
9:S7:96:ARG:CZ	9:S7:124:LYS:HB3	2.47	0.45
10:S8:188:GLU:HG2	13:C1:13:PHE:CD2	2.51	0.45
11:S9:91:LYS:O	11:S9:92:LYS:HG2	2.16	0.45
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	1.99	0.45
20:C8:136:GLN:HE21	20:C8:136:GLN:HB3	1.52	0.45
22:D0:43:LYS:HA	22:D0:43:LYS:HD2	1.80	0.45
24:D2:36:LYS:HB2	24:D2:110:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:84:SER:HB3	34:SR:86:ASP:OD1	2.17	0.45
34:SR:222:LEU:O	34:SR:231:MET:HB2	2.17	0.45
36:1:156:G:O2'	36:1:157:A:H4'	2.16	0.45
36:1:697:A:O2'	36:1:698:U:H5'	2.16	0.45
36:1:1018:G:H2'	36:1:1019:G:O4'	2.17	0.45
36:1:1304:A:OP1	85:1:4026:OHX:N5	2.49	0.45
36:1:1719:G:H4'	36:1:1732:U:H4'	1.98	0.45
36:1:2208:A:N1	85:1:3904:OHX:N4	2.64	0.45
36:1:3180:A:C6	52:M6:114:LYS:HD2	2.52	0.45
40:L3:169:THR:HG21	40:L3:171:LEU:HD12	1.98	0.45
41:L4:355:PHE:CE2	44:L7:70:LYS:HD2	2.51	0.45
42:L5:40:HIS:HB3	42:L5:43:LYS:HD2	1.98	0.45
49:M3:164:GLU:O	49:M3:166:ALA:N	2.46	0.45
52:M6:131:PRO:HG3	56:N0:154:HIS:CD2	2.51	0.45
62:N6:34:PRO:HA	62:N6:47:ALA:CB	2.47	0.45
65:N9:32:LEU:O	65:N9:35:VAL:HB	2.17	0.45
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	1.98	0.45
79:Q3:33:GLN:HB3	79:Q3:69:TYR:HB3	1.98	0.45
1:6:338:C:H5''	10:s8:10:LYS:HD3	1.97	0.45
1:6:393:C:H2'	1:6:394:C:C6	2.51	0.45
1:6:542:A:H1'	1:6:543:C:P	2.57	0.45
1:6:567:A:H4'	32:e0:13:LYS:HB2	1.97	0.45
1:6:624:G:H2'	1:6:625:C:C6	2.51	0.45
1:6:641:G:H5'	9:s7:148:LYS:NZ	2.32	0.45
1:6:717:C:O2	1:6:722:G:N2	2.49	0.45
1:6:778:G:N2	1:6:780:A:H5'	2.31	0.45
1:6:950:C:H2'	1:6:951:A:C8	2.51	0.45
1:6:1298:U:OP1	85:6:2013:OHX:N3	2.50	0.45
1:6:1490:C:C4	1:6:1492:A:N7	2.85	0.45
1:6:1491:U:H4'	1:6:1492:A:O5'	2.17	0.45
1:6:1657:U:O2'	1:6:1658:G:OP2	2.32	0.45
1:6:1756[A]:A:H2'	1:6:1757:G:H8	1.81	0.45
3:s1:113:MET:SD	3:s1:209:ASN:ND2	2.89	0.45
4:s2:67:GLN:N	4:s2:67:GLN:OE1	2.49	0.45
7:s5:166:ARG:HA	7:s5:169:ASN:HB2	1.99	0.45
9:s7:78:THR:HG23	9:s7:92:PHE:CE1	2.52	0.45
11:s9:28:LEU:HD23	11:s9:28:LEU:HA	1.83	0.45
13:c1:46:LYS:HD2	13:c1:46:LYS:HA	1.77	0.45
13:c1:46:LYS:O	13:c1:50:GLU:HG2	2.17	0.45
15:c3:151:ASN:O	85:c3:201:OHX:N3	2.49	0.45
16:c4:44:GLY:O	16:c4:59:ALA:HB1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c4:107:ARG:O	16:c4:109:GLY:N	2.43	0.45
20:c8:118:LYS:O	20:c8:120:ARG:NH2	2.46	0.45
26:d4:15:ASN:N	26:d4:20:ARG:O	2.44	0.45
36:5:890:C:O2'	36:5:2324:A:N3	2.47	0.45
36:5:1350:A:OP1	41:l4:291:ASN:ND2	2.49	0.45
36:5:2662:G:H2'	36:5:2663:G:C8	2.52	0.45
36:5:3160:U:H2'	36:5:3161:C:C6	2.51	0.45
36:5:3164:C:C2	36:5:3165:A:C8	3.05	0.45
36:5:3379:C:H4'	40:l3:315:GLY:HA2	1.97	0.45
37:7:6:C:O2'	42:l5:50:ARG:NH2	2.35	0.45
51:m5:31:ARG:NH1	51:m5:124:ASP:OD1	2.49	0.45
51:m5:73:ARG:O	51:m5:75:VAL:N	2.46	0.45
64:n8:7:LYS:HD3	64:n8:7:LYS:HA	1.68	0.45
68:o2:77:ALA:HB3	68:o2:81:ASP:OD2	2.17	0.45
69:o3:89:LEU:HA	69:o3:90:PRO:HD3	1.60	0.45
1:2:95:G:C2	1:2:96:G:H1'	2.52	0.45
1:2:1065:A:H4'	3:S1:205:PHE:CE2	2.51	0.45
1:2:1277:G:H2'	1:2:1278:G:O4'	2.17	0.45
3:S1:48:VAL:HG11	3:S1:57:ALA:HB1	1.99	0.45
3:S1:137:ILE:HD12	3:S1:172:LEU:HD22	1.98	0.45
3:S1:193:ILE:O	3:S1:197:ILE:HG12	2.16	0.45
5:S3:116:ARG:HE	5:S3:150:MET:HE1	1.81	0.45
6:S4:180:LEU:HB3	6:S4:228:ILE:HG13	1.98	0.45
7:S5:69:PHE:HD2	18:C6:50:GLU:HG3	1.82	0.45
8:S6:158:ILE:HD12	8:S6:158:ILE:HA	1.60	0.45
10:S8:87:ASN:ND2	10:S8:89:GLU:HB2	2.31	0.45
14:C2:38:HIS:O	14:C2:125:ASN:ND2	2.50	0.45
20:C8:119:ILE:O	20:C8:120:ARG:HB2	2.17	0.45
22:D0:63:LEU:HD22	31:D9:34:TYR:CZ	2.52	0.45
36:1:1375:G:O6	64:N8:10:LYS:HE2	2.17	0.45
36:1:1404:G:N1	36:1:1407:A:OP2	2.49	0.45
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.46	0.45
36:1:2736:A:O2'	57:N1:68:THR:HG21	2.17	0.45
36:1:3159:C:H2'	36:1:3160:U:C6	2.52	0.45
41:L4:91:GLY:O	41:L4:97:GLY:HA3	2.16	0.45
42:L5:183:TRP:CZ2	42:L5:188:GLU:HA	2.52	0.45
47:M0:9:TYR:O	47:M0:59:GLN:NE2	2.50	0.45
48:M1:59:ILE:HB	48:M1:65:ILE:HD11	1.99	0.45
54:M8:64:VAL:HG22	54:M8:96:PHE:CZ	2.52	0.45
55:M9:160:GLU:O	55:M9:164:LEU:N	2.43	0.45
57:N1:95:HIS:O	57:N1:96:ILE:HD12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:39:VAL:HG22	59:N3:52:ALA:HB2	1.99	0.45
64:N8:103:ASP:OD1	64:N8:106:ALA:HB2	2.17	0.45
1:6:107:C:N4	1:6:307:G:H1	2.13	0.45
1:6:219:A:N6	1:6:843:U:C2	2.85	0.45
1:6:228:G:H1	1:6:236:A:H61	1.65	0.45
1:6:884:A:H2'	1:6:885:G:C8	2.52	0.45
1:6:1198:G:OP1	1:6:1199:G:O2'	2.28	0.45
1:6:1274:C:O2	1:6:1274:C:H2'	2.17	0.45
1:6:1553:G:N2	1:6:1555:A:H3'	2.32	0.45
1:6:1597:A:OP1	31:d9:19:ARG:NH2	2.50	0.45
3:s1:103:MET:O	3:s1:214:LYS:HA	2.16	0.45
12:c0:1:MET:HE2	12:c0:41:TYR:CE1	2.52	0.45
16:c4:105:LEU:HD23	16:c4:105:LEU:HA	1.86	0.45
21:c9:118:PRO:C	21:c9:120:GLY:H	2.25	0.45
26:d4:20:ARG:NH1	26:d4:22:GLN:OE1	2.49	0.45
27:d5:60:VAL:HA	27:d5:64:VAL:HG11	1.98	0.45
36:5:65:A:H8	36:5:65:A:O5'	1.99	0.45
36:5:188:U:H1'	36:5:208:C:C1'	2.45	0.45
36:5:289:A:H2'	36:5:290:G:H8	1.82	0.45
36:5:1109:U:H2'	36:5:1110:U:O4'	2.17	0.45
36:5:1222:G:H1'	36:5:1285:G:N2	2.32	0.45
36:5:1334:U:O2'	44:l7:151:ARG:NH2	2.50	0.45
36:5:1502:C:OP1	85:5:3756:OHX:N3	2.50	0.45
36:5:1506:A:H1'	36:5:1848:G:O6	2.17	0.45
36:5:1596:C:H2'	36:5:1597:C:C6	2.51	0.45
36:5:1818:U:H2'	36:5:1819:U:H6	1.80	0.45
37:7:121:U:OP2	42:l5:265:TYR:OH	2.30	0.45
39:l2:227:ARG:HB2	39:l2:239:ALA:HB2	1.98	0.45
41:l4:170:LYS:HE3	41:l4:175:HIS:ND1	2.32	0.45
41:l4:269:SER:O	41:l4:270:SER:OG	2.34	0.45
42:l5:55:PHE:CZ	42:l5:158:ARG:HB3	2.52	0.45
46:l9:90:MET:HB2	46:l9:144:ILE:HG22	1.98	0.45
48:m1:38:GLU:C	48:m1:40:LEU:N	2.75	0.45
48:m1:38:GLU:O	48:m1:40:LEU:N	2.50	0.45
52:m6:15:LEU:HD21	52:m6:125:ARG:HG3	1.99	0.45
52:m6:162:VAL:O	52:m6:166:GLU:HG3	2.17	0.45
1:2:47:A:N7	1:2:98:U:O2'	2.47	0.45
1:2:267:U:OP1	8:S6:183:ARG:NE	2.47	0.45
1:2:1122:G:N2	1:2:1125:A:OP2	2.47	0.45
1:2:1512:G:C6	1:2:1513:G:C6	3.05	0.45
1:2:1530:C:P	27:D5:95:HIS:HB2	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1535:U:O2'	1:2:1536:G:H5''	2.16	0.45
2:S0:118:PRO:HG2	2:S0:141:ILE:HD13	1.99	0.45
3:S1:181:LEU:O	3:S1:182:ALA:C	2.60	0.45
6:S4:102:VAL:HG23	6:S4:182:TYR:HE1	1.81	0.45
9:S7:103:SER:HB3	9:S7:106:SER:HB3	1.99	0.45
12:C0:16:PHE:O	12:C0:88:UNK:HA	2.17	0.45
36:1:1121:U:H2'	36:1:1122:U:C6	2.52	0.45
36:1:1230:G:H2'	36:1:1231:A:H8	1.82	0.45
36:1:1579:C:OP1	39:L2:68:LYS:NZ	2.49	0.45
36:1:1580:A:H5'	36:1:2522:G:C5	2.52	0.45
36:1:1741:A:C2	36:1:1742:U:C4	3.05	0.45
36:1:1750:A:H4'	36:1:1751:G:H5'	1.99	0.45
36:1:2376:G:C6	36:1:2377:G:O6	2.70	0.45
36:1:2772:C:H4'	36:1:2773:C:C5'	2.46	0.45
36:1:3084:C:H2'	36:1:3085:G:O4'	2.17	0.45
85:1:3927:OHX:N1	85:1:3975:OHX:N2	2.65	0.45
46:L9:172:ILE:O	46:L9:172:ILE:HG12	2.16	0.45
48:M1:109:HIS:HA	48:M1:112:LEU:HD21	1.99	0.45
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.32	0.45
57:N1:42:ILE:HG12	57:N1:96:ILE:HD11	1.99	0.45
58:N2:99:LYS:HE3	58:N2:99:LYS:HB2	1.81	0.45
59:N3:75:PRO:HG2	59:N3:105:PRO:HD3	1.98	0.45
60:N4:6:ASP:OD1	60:N4:31:PHE:HA	2.17	0.45
64:N8:7:LYS:O	64:N8:10:LYS:N	2.48	0.45
65:N9:23:LYS:HD2	65:N9:23:LYS:HA	1.48	0.45
69:O3:59:VAL:HG23	69:O3:60:ARG:H	1.82	0.45
72:O6:53:TYR:CD1	72:O6:76:ARG:HG2	2.51	0.45
79:Q3:38:ASP:OD1	79:Q3:45:LYS:HB3	2.17	0.45
1:6:93:A:C6	1:6:398:G:C6	3.05	0.45
1:6:624:G:H2'	1:6:625:C:H6	1.82	0.45
1:6:1459:C:OP2	20:c8:138:THR:OG1	2.26	0.45
85:6:2120:OHX:N1	25:d3:64:PRO:O	2.50	0.45
5:s3:167:PHE:CE1	5:s3:192:PRO:HB3	2.52	0.45
7:s5:57:SER:HA	30:d8:53:ILE:HB	1.99	0.45
7:s5:99:MET:O	7:s5:100:ASN:HB2	2.17	0.45
14:c2:35:ALA:HA	14:c2:126:TRP:HA	1.99	0.45
33:e1:86:THR:O	33:e1:87:THR:OG1	2.24	0.45
36:5:529:A:H2'	36:5:530:G:O4'	2.16	0.45
36:5:599:C:OP1	41:l4:332:LYS:HD2	2.17	0.45
36:5:1255:C:H2'	36:5:1256:G:H8	1.82	0.45
36:5:1717:U:H2'	36:5:1718:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2807:U:O3'	36:5:2808:A:H3'	2.17	0.45
36:5:3362:A:C2	36:5:3363:U:C2	3.05	0.45
41:l4:330:TYR:O	41:l4:333:VAL:HG13	2.17	0.45
42:l5:178:ASN:HA	42:l5:183:TRP:CD1	2.51	0.45
42:l5:218:ARG:NH2	42:l5:221:GLU:OE1	2.50	0.45
45:l8:81:THR:OG1	45:l8:82:LEU:N	2.49	0.45
47:m0:12:GLN:HA	47:m0:59:GLN:OE1	2.16	0.45
51:m5:84:PRO:HA	51:m5:87:GLN:HG3	1.99	0.45
52:m6:117:ARG:H	52:m6:117:ARG:HG2	1.65	0.45
56:n0:26:ARG:HB3	57:n1:150:THR:HB	1.98	0.45
70:o4:81:CYS:HG	70:o4:84:CYS:HG	1.62	0.45
1:2:87:C:H1'	1:2:168:A:N1	2.32	0.45
1:2:153:G:H2'	1:2:154:G:H8	1.80	0.45
1:2:177:U:H1'	8:S6:191:ARG:NH1	2.32	0.45
1:2:179:A:C6	1:2:180:A:C5	3.05	0.45
1:2:294:C:C2	1:2:295:A:C8	3.04	0.45
1:2:434:G:H5'	25:D3:78:LYS:HB3	1.99	0.45
1:2:1096:C:O2'	1:2:1097:U:OP2	2.32	0.45
1:2:1290:U:H2'	1:2:1291:G:C8	2.51	0.45
1:2:1451:C:H2'	1:2:1452:U:H6	1.81	0.45
1:2:1687:U:H1'	1:2:1715:G:N2	2.32	0.45
1:2:1767:G:OP1	1:2:1770:U:H4'	2.17	0.45
3:S1:214:LYS:HE3	3:S1:214:LYS:HB2	1.70	0.45
5:S3:113:LEU:HD21	5:S3:117:ARG:NH1	2.31	0.45
10:S8:191:PHE:CE2	13:C1:8:GLN:HG3	2.51	0.45
36:1:155:G:H5''	36:1:156:G:N7	2.32	0.45
36:1:345:G:O2'	38:4:25:G:N3	2.49	0.45
36:1:621:A:O2'	85:1:4015:OHX:N1	2.50	0.45
36:1:1103:A:H2'	36:1:1103:A:N3	2.32	0.45
36:1:1502:C:OP2	85:1:3739:OHX:N6	2.50	0.45
36:1:1573:G:C2	36:1:1574:C:H1'	2.52	0.45
36:1:2616:C:C2'	36:1:2617:U:H5'	2.47	0.45
36:1:2916:U:C2'	36:1:2917:G:H5'	2.47	0.45
36:1:3139:A:OP2	40:L3:28:ARG:NH2	2.50	0.45
36:1:3329:U:H5''	40:L3:308:MET:HE2	1.98	0.45
37:3:28:C:H1'	37:3:55:A:H61	1.82	0.45
39:L2:229:ALA:HB3	39:L2:234:LYS:HG2	1.97	0.45
41:L4:126:ILE:HG13	41:L4:238:LEU:HD13	1.99	0.45
42:L5:79:TYR:HB2	42:L5:81:HIS:CE1	2.52	0.45
44:L7:92:ILE:HD12	44:L7:92:ILE:HA	1.66	0.45
53:M7:181:ARG:HG2	53:M7:182:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.52	0.45
1:6:223:U:H2'	1:6:224:C:C6	2.52	0.45
1:6:546:U:H2'	1:6:547:U:H6	1.82	0.45
1:6:563:U:H4'	32:e0:17:GLN:OE1	2.17	0.45
1:6:1097:U:H1'	4:s2:168:ARG:HD2	1.98	0.45
1:6:1380:U:OP1	18:c6:12:LYS:NZ	2.44	0.45
3:s1:193:ILE:H	3:s1:193:ILE:HG12	1.54	0.45
4:s2:58:LEU:HD11	4:s2:236:PRO:HG2	1.99	0.45
9:s7:141:ARG:HH21	9:s7:143:LEU:HD21	1.82	0.45
11:s9:143:ILE:HG22	11:s9:145:SER:H	1.82	0.45
17:c5:68:PRO:HG2	17:c5:71:GLU:OE2	2.16	0.45
22:d0:53:LYS:HD3	22:d0:53:LYS:HA	1.80	0.45
25:d3:92:CYS:O	25:d3:95:PHE:HB2	2.17	0.45
28:d6:40:ALA:HB3	28:d6:69:ASN:HB3	1.99	0.45
29:d7:47:PHE:CE1	29:d7:49:HIS:HB2	2.52	0.45
33:e1:121:CYS:HB3	33:e1:130:VAL:HG11	1.98	0.45
36:5:151:A:O2'	36:5:152:U:OP1	2.33	0.45
36:5:209:A:H4'	36:5:211:A:C8	2.52	0.45
36:5:1095:U:H3	57:n1:127:GLN:HG2	1.81	0.45
36:5:1213:G:H4'	56:n0:90:MET:CG	2.39	0.45
36:5:3167:A:H2'	36:5:3168:A:O4'	2.17	0.45
36:5:3354:U:H4'	36:5:3355:U:H5''	1.97	0.45
37:7:79:A:OP2	85:7:213:OHX:N3	2.50	0.45
38:8:141:C:H2'	38:8:142:C:C6	2.51	0.45
43:l6:19:LYS:O	43:l6:21:THR:N	2.50	0.45
43:l6:55:LEU:HD12	43:l6:64:LEU:HD13	1.99	0.45
44:l7:127:LEU:O	44:l7:130:ILE:HG22	2.17	0.45
49:m3:189:GLU:HA	49:m3:192:GLU:HB2	1.98	0.45
56:n0:155:ARG:HH21	56:n0:172:TYR:H	1.64	0.45
62:n6:45:ILE:HD11	62:n6:122:LYS:HB2	1.99	0.45
68:o2:61:LYS:HZ3	68:o2:61:LYS:HB2	1.81	0.45
68:o2:64:LYS:HG2	68:o2:65:PHE:CD2	2.52	0.45
68:o2:100:ILE:O	68:o2:105:ARG:NH1	2.47	0.45
74:o8:16:ARG:O	74:o8:18:ALA:N	2.50	0.45
78:q2:12:CYS:HB3	78:q2:17:CYS:HB3	1.98	0.45
1:2:102:U:O4	1:2:360:A:H2'	2.17	0.45
1:2:197:A:H61	10:S8:138:ASN:ND2	2.15	0.45
1:2:1199:G:C5	31:D9:40:ARG:HD3	2.52	0.45
1:2:1274:C:C5	35:SM:95:SER:HA	2.52	0.45
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.99	0.45
5:S3:141:LYS:HE3	5:S3:179:GLN:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:142:LEU:O	5:S3:144:ALA:N	2.50	0.45
5:S3:168:ILE:HG23	5:S3:189:MET:SD	2.57	0.45
6:S4:36:HIS:NE2	6:S4:88:ASP:OD2	2.50	0.45
7:S5:30:PRO:HB2	7:S5:33:VAL:HG21	1.99	0.45
7:S5:120:ILE:O	7:S5:124:LEU:HD12	2.17	0.45
11:S9:53:ARG:O	11:S9:57:ARG:HG3	2.17	0.45
19:C7:6:THR:OG1	19:C7:7:LYS:N	2.50	0.45
27:D5:82:HIS:O	27:D5:85:LYS:HB3	2.17	0.45
36:1:279:U:H2'	36:1:280:U:C6	2.52	0.45
36:1:291:C:H5''	51:M5:68:ARG:HH12	1.82	0.45
36:1:355:A:N1	41:L4:82:THR:OG1	2.46	0.45
36:1:595:G:H1	36:1:609:G:H5''	1.81	0.45
36:1:913:A:H2	36:1:2134:G:N3	2.15	0.45
36:1:1171:G:OP2	44:L7:218:ARG:HD2	2.17	0.45
36:1:1488:G:H5''	36:1:1838:G:O6	2.16	0.45
36:1:1613:A:OP2	74:O8:46:ARG:NH2	2.50	0.45
36:1:1720:U:P	55:M9:110:ARG:HH12	2.40	0.45
36:1:1730:G:C6	66:O0:26:GLY:HA3	2.52	0.45
36:1:1777:U:H4'	36:1:2099:A:O2'	2.17	0.45
36:1:1913:A:N3	36:1:2120:A:H2'	2.32	0.45
36:1:2107:A:C2	36:1:3344:A:H8	2.35	0.45
36:1:2298:U:O4	36:1:2923:U:H5	2.00	0.45
36:1:2798:C:H5''	36:1:2799:A:OP1	2.17	0.45
36:1:3110:C:O3'	46:L9:155:SER:HB2	2.18	0.45
39:L2:136:ILE:HG13	39:L2:148:VAL:HG12	1.99	0.45
40:L3:17:LEU:HD11	40:L3:233:TRP:HH2	1.82	0.45
41:L4:64:SER:OG	41:L4:73:ARG:O	2.31	0.45
46:L9:172:ILE:HG12	76:Q0:90:ASN:HB3	1.98	0.45
47:M0:99:ILE:HG22	47:M0:123:HIS:HB2	1.99	0.45
49:M3:60:ALA:HB3	49:M3:65:TYR:O	2.17	0.45
51:M5:42:PRO:HG3	51:M5:61:ILE:HG13	1.98	0.45
53:M7:115:SER:N	53:M7:149:VAL:O	2.43	0.45
60:N4:6:ASP:HB3	60:N4:10:GLY:H	1.82	0.45
1:6:475:A:H2'	1:6:476:U:O4'	2.17	0.45
1:6:567:A:H1'	32:e0:14:VAL:HG23	1.98	0.45
1:6:733:A:H2'	1:6:734:A:O4'	2.17	0.45
1:6:919:A:H2'	1:6:920:U:C6	2.52	0.45
1:6:1263:G:H2'	1:6:1264:G:O4'	2.17	0.45
1:6:1757:G:O6	85:6:2009:OHX:N4	2.50	0.45
3:s1:24:PHE:HA	3:s1:27:LYS:HG3	1.99	0.45
7:s5:93:LEU:HD23	7:s5:172:ILE:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:101:GLY:C	7:s5:103:ASN:H	2.25	0.45
11:s9:170:GLY:O	11:s9:174:ARG:HG3	2.17	0.45
19:c7:104:ASN:ND2	19:c7:105:GLN:OE1	2.50	0.45
21:c9:33:TYR:CD1	21:c9:34:VAL:N	2.84	0.45
21:c9:74:GLY:O	21:c9:77:ASN:N	2.45	0.45
25:d3:133:LEU:HD22	25:d3:133:LEU:HA	1.80	0.45
33:e1:86:THR:HG23	33:e1:87:THR:H	1.81	0.45
34:sR:255:ALA:HA	34:sR:260:ILE:HA	1.97	0.45
36:5:21:G:OP2	38:8:36:G:N2	2.50	0.45
36:5:148:G:OP2	51:m5:4:TYR:OH	2.26	0.45
36:5:264:G:N7	85:5:4066:OHX:N2	2.64	0.45
36:5:655:C:H5''	68:o2:26:HIS:HB2	1.99	0.45
36:5:1072:G:H2'	36:5:1073:U:H6	1.81	0.45
36:5:2568:C:HO2'	36:5:2569:A:C5'	2.27	0.45
36:5:3386:G:H2'	36:5:3387:U:H6	1.82	0.45
38:8:59:A:O2'	61:n5:61:LYS:NZ	2.50	0.45
38:8:145:U:H2'	38:8:146:U:C6	2.52	0.45
49:m3:2:ALA:N	64:n8:33:GLY:O	2.50	0.45
55:m9:94:VAL:O	55:m9:97:ARG:HB2	2.17	0.45
60:n4:63:ILE:HB	60:n4:64:THR:H	1.60	0.45
67:o1:41:LYS:O	67:o1:45:GLY:HA2	2.17	0.45
74:o8:64:LYS:HG3	74:o8:65:LEU:N	2.32	0.45
75:o9:6:SER:HB3	75:o9:9:ILE:HG12	1.99	0.45
1:2:130:C:O2'	1:2:131:C:OP1	2.32	0.44
1:2:611:U:OP1	25:D3:19:ARG:NH2	2.49	0.44
1:2:1484:G:H2'	1:2:1485:C:C6	2.52	0.44
85:2:2054:OHX:N3	85:2:2068:OHX:N1	2.65	0.44
9:S7:111:LYS:O	9:S7:112:ARG:HB2	2.17	0.44
12:C0:33:GLU:H	12:C0:33:GLU:CD	2.25	0.44
26:D4:104:SER:HB3	26:D4:107:GLN:NE2	2.31	0.44
26:D4:116:LYS:HE2	26:D4:116:LYS:HB3	1.71	0.44
36:1:283:G:O6	36:1:304:G:H1'	2.17	0.44
36:1:608:A:H5''	36:1:609:G:OP2	2.17	0.44
36:1:661:G:N7	64:N8:19:LYS:HE3	2.33	0.44
36:1:992:A:H5''	57:N1:43:LYS:HD3	1.98	0.44
36:1:1454:A:H5''	36:1:1455:U:H5'	1.98	0.44
36:1:1468:A:N6	36:1:1508:C:O2	2.50	0.44
85:1:3854:OHX:N2	85:3:217:OHX:N1	2.64	0.44
37:3:5:G:O3'	42:L5:54:ARG:HG3	2.16	0.44
41:L4:316:ASN:HD21	44:L7:150:LYS:HD2	1.81	0.44
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:240:ASN:HA	45:L8:243:GLN:HB2	1.99	0.44
45:L8:246:MET:HA	45:L8:249:ARG:HB3	1.99	0.44
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.53	0.44
48:M1:9:MET:HE3	48:M1:9:MET:HB2	1.87	0.44
50:M4:32:LEU:HD11	50:M4:94:TRP:CD1	2.52	0.44
50:M4:125:LYS:HB3	50:M4:125:LYS:HE2	1.70	0.44
56:N0:96:ASP:OD1	56:N0:97:VAL:HG23	2.17	0.44
71:O5:70:TYR:O	71:O5:73:LYS:HG3	2.17	0.44
1:6:511:A:P	11:s9:176:ASN:HD22	2.37	0.44
1:6:791:A:C2'	1:6:792:U:H5'	2.46	0.44
1:6:1012:U:O2'	39:l2:247:ARG:NE	2.50	0.44
1:6:1584:G:O2'	1:6:1610:G:O6	2.28	0.44
1:6:1752:U:OP2	85:6:2024:OHX:N1	2.51	0.44
5:s3:16:VAL:HG11	31:d9:22:ARG:CZ	2.47	0.44
5:s3:40:ARG:HG2	22:d0:110:PRO:HB3	1.99	0.44
6:s4:230:GLU:O	6:s4:233:LYS:N	2.40	0.44
7:s5:43:PHE:CG	7:s5:44:ASN:N	2.83	0.44
9:s7:56:LYS:HB2	9:s7:88:ARG:HH11	1.81	0.44
13:c1:76:VAL:HG12	13:c1:85:VAL:O	2.17	0.44
19:c7:46:LEU:O	19:c7:50:ILE:HG13	2.17	0.44
25:d3:41:SER:HA	25:d3:42:PRO:HD3	1.85	0.44
25:d3:90:ASP:OD2	32:e0:12:GLY:HA2	2.17	0.44
34:sR:23:LEU:HG	34:sR:291:SER:HB2	1.99	0.44
36:5:73:C:O2'	49:m3:59:ARG:HG2	2.17	0.44
36:5:792:G:H5''	64:n8:2:PRO:HD3	1.99	0.44
36:5:873:C:H5''	36:5:874:U:H4'	1.99	0.44
36:5:912:G:H1'	36:5:917:A:C2	2.52	0.44
36:5:1213:G:O6	85:5:3891:OHX:N3	2.50	0.44
36:5:1815:U:O2'	36:5:1816:A:P	2.75	0.44
36:5:2271:A:N7	36:5:2272:G:C6	2.85	0.44
36:5:3159:C:H2'	36:5:3160:U:H6	1.82	0.44
36:5:3183:A:P	52:m6:37:ARG:HH12	2.40	0.44
40:l3:47:LEU:HD23	40:l3:164:THR:HG23	1.99	0.44
40:l3:147:GLU:OE2	40:l3:150:ARG:NH1	2.49	0.44
41:l4:42:VAL:HG12	41:l4:236:LEU:HD21	1.98	0.44
41:l4:193:LYS:HB2	41:l4:193:LYS:HE3	1.77	0.44
41:l4:214:GLY:O	41:l4:218:ALA:HB2	2.17	0.44
48:m1:20:ASN:HB3	48:m1:126:ASP:HB2	1.99	0.44
49:m3:149:GLN:HA	49:m3:150:PRO:HD2	1.81	0.44
50:m4:47:ASP:C	50:m4:49:PRO:HD3	2.41	0.44
55:m9:106:LEU:HD13	55:m9:138:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:n0:131:LYS:O	56:n0:134:ASP:HB2	2.17	0.44
63:n7:110:ALA:O	63:n7:114:VAL:HG23	2.17	0.44
66:o0:66:LYS:H	66:o0:66:LYS:HD2	1.82	0.44
71:o5:119:LYS:HD2	71:o5:119:LYS:HA	1.71	0.44
1:2:1765:A:H5'	1:2:1767:G:N7	2.32	0.44
2:S0:158:VAL:H	23:D1:69:LEU:HD12	1.82	0.44
5:S3:7:LYS:NZ	22:D0:27:THR:HG21	2.33	0.44
7:S5:72:HIS:ND1	18:C6:79:TYR:OH	2.47	0.44
9:S7:41:LEU:HD13	9:S7:70:PHE:CD1	2.52	0.44
14:C2:73:LYS:NZ	33:E1:108:VAL:O	2.50	0.44
20:C8:42:TYR:HA	20:C8:85:PHE:HE1	1.82	0.44
34:SR:120:SER:HA	34:SR:136:ILE:HD12	1.99	0.44
36:1:191:U:H2'	36:1:192:C:H6	1.81	0.44
36:1:2123:G:N7	85:1:3967:OHX:N2	2.65	0.44
36:1:2229:A:H2'	36:1:2230:C:C6	2.52	0.44
36:1:2424:A:H2'	36:1:2425:G:O4'	2.18	0.44
36:1:3152:U:O2'	36:1:3153:U:H5'	2.17	0.44
85:1:3772:OHX:N5	45:L8:54:GLU:OE2	2.50	0.44
85:1:3993:OHX:N5	85:1:4015:OHX:N6	2.64	0.44
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.53	0.44
41:L4:281:ILE:HG13	54:M8:125:ASP:HB3	1.99	0.44
43:L6:172:HIS:CD2	43:L6:173:MET:HG2	2.52	0.44
50:M4:22:LEU:HD13	50:M4:32:LEU:HD23	1.99	0.44
56:N0:23:LYS:HB3	56:N0:25:PHE:CE2	2.53	0.44
57:N1:38:ASP:OD1	57:N1:38:ASP:N	2.49	0.44
60:N4:52:THR:O	60:N4:56:ARG:HG3	2.17	0.44
67:O1:10:ARG:HG2	67:O1:108:VAL:HG22	2.00	0.44
1:6:1175:U:H4'	1:6:1196:A:C6	2.52	0.44
1:6:1258:U:H5	1:6:1259:U:C2	2.34	0.44
1:6:1752:U:H2'	1:6:1753:A:C8	2.52	0.44
2:s0:41:ARG:HH11	2:s0:45:VAL:HG21	1.82	0.44
2:s0:59:LEU:HD12	23:d1:79:LEU:HD11	1.98	0.44
3:s1:157:GLN:O	3:s1:161:ILE:HG13	2.17	0.44
4:s2:169:LEU:HD23	4:s2:198:THR:HG22	1.98	0.44
7:s5:149:VAL:HG12	7:s5:156:ARG:O	2.16	0.44
9:s7:98:ILE:HD13	9:s7:118:LEU:HA	2.00	0.44
16:c4:47:LYS:HE2	16:c4:62:LEU:O	2.17	0.44
16:c4:103:ARG:HH12	28:d6:48:ALA:CB	2.30	0.44
18:c6:25:GLY:HA3	18:c6:64:ASP:CG	2.42	0.44
23:d1:70:ASN:OD1	23:d1:70:ASN:N	2.51	0.44
33:e1:144:CYS:C	33:e1:146:SER:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1205:A:H4'	36:5:2835:U:O2'	2.17	0.44
36:5:1536:G:O6	85:5:3766:OHX:N2	2.50	0.44
36:5:2567:C:N4	36:5:2568:C:H41	2.13	0.44
39:l2:112:ILE:HD11	79:q3:79:VAL:HG11	1.98	0.44
39:l2:211:HIS:CD2	39:l2:219:ILE:HG23	2.52	0.44
43:l6:159:LEU:HA	43:l6:159:LEU:HD23	1.73	0.44
45:l8:230:LYS:HB2	45:l8:230:LYS:HE3	1.55	0.44
47:m0:60:LEU:HD11	47:m0:135:ILE:HD13	1.98	0.44
58:n2:37:LEU:O	58:n2:41:ILE:HG13	2.17	0.44
59:n3:13:ILE:HD11	59:n3:81:GLN:OE1	2.18	0.44
61:n5:34:LEU:HD22	61:n5:35:PRO:HD2	1.99	0.44
62:n6:23:PRO:O	62:n6:27:ARG:HG3	2.17	0.44
62:n6:57:LEU:HD13	62:n6:59:VAL:HG12	1.98	0.44
63:n7:3:LYS:O	63:n7:5:LEU:N	2.50	0.44
68:o2:16:LYS:O	68:o2:17:PHE:HB2	2.17	0.44
78:q2:26:THR:OG1	78:q2:71:ARG:HD3	2.17	0.44
4:S2:90:THR:O	4:S2:92:ALA:N	2.50	0.44
4:S2:108:ASN:HA	4:S2:141:ARG:NH1	2.32	0.44
11:S9:36:LEU:O	32:E0:33:ARG:HG3	2.16	0.44
15:C3:92:ILE:O	15:C3:96:VAL:HG23	2.17	0.44
24:D2:37:PHE:HD1	24:D2:41:MET:HE2	1.82	0.44
25:D3:128:SER:O	25:D3:143:PRO:HG2	2.17	0.44
26:D4:8:ARG:H	26:D4:8:ARG:HG3	1.64	0.44
36:1:73:C:N3	49:M3:59:ARG:NH1	2.66	0.44
36:1:90:C:H4'	36:1:282:G:H5''	1.98	0.44
36:1:1639:C:H5'	70:O4:52:GLN:HG3	1.98	0.44
36:1:1872:C:H2'	36:1:1873:U:H6	1.82	0.44
36:1:2184:U:C2	36:1:2185:G:C8	3.06	0.44
36:1:3121:U:C4	36:1:3124:G:O6	2.70	0.44
85:1:3944:OHX:N2	85:1:4007:OHX:N4	2.65	0.44
38:4:59:A:H5''	38:4:61:A:C8	2.52	0.44
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.98	0.44
40:L3:308:MET:HE2	40:L3:308:MET:HB3	1.65	0.44
40:L3:313:HIS:O	40:L3:333:LYS:HE3	2.18	0.44
42:L5:51:LEU:HB3	42:L5:146:LEU:HA	1.99	0.44
48:M1:37:LEU:O	48:M1:41:SER:OG	2.21	0.44
58:N2:20:SER:O	58:N2:23:THR:N	2.50	0.44
64:N8:3:SER:O	64:N8:6:THR:HB	2.18	0.44
64:N8:71:PRO:HB2	64:N8:109:TYR:HD2	1.83	0.44
71:O5:78:LYS:HA	71:O5:81:ARG:CD	2.41	0.44
72:O6:74:LYS:HG2	72:O6:74:LYS:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:521:A:H2'	1:6:522:U:O4'	2.18	0.44
1:6:721:U:O2'	1:6:722:G:O4'	2.33	0.44
1:6:765:G:O6	11:s9:149:ARG:HD2	2.18	0.44
1:6:964:U:OP1	15:c3:128:TYR:OH	2.24	0.44
1:6:1478:G:C4	1:6:1479:A:C8	3.05	0.44
2:s0:88:LYS:HB3	2:s0:202:TYR:CZ	2.52	0.44
3:s1:70:LEU:HD13	3:s1:79:HIS:CG	2.52	0.44
6:s4:45:ILE:HB	6:s4:80:THR:HG23	1.99	0.44
6:s4:166:SER:O	6:s4:168:LYS:HG2	2.17	0.44
8:s6:176:GLN:C	8:s6:178:LEU:H	2.25	0.44
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	2.00	0.44
13:c1:94:ILE:HG12	25:d3:16:ARG:HD3	1.99	0.44
28:d6:31:PRO:O	28:d6:34:LYS:N	2.50	0.44
36:5:5:G:C2	38:8:155:A:C2	3.05	0.44
36:5:602:A:H2'	36:5:603:A:C8	2.51	0.44
36:5:1746:U:O2'	74:o8:4:GLU:OE1	2.35	0.44
36:5:1765:U:H2'	36:5:1766:G:O4'	2.17	0.44
36:5:2158:A:H5'	36:5:2160:G:O4'	2.17	0.44
36:5:2244:A:H5''	39:l2:243:THR:OG1	2.17	0.44
36:5:2514:U:OP1	36:5:2514:U:C6	2.67	0.44
36:5:2723:U:OP1	57:n1:87:LYS:HD3	2.17	0.44
36:5:3139:A:OP1	40:l3:274:SER:OG	2.35	0.44
36:5:3279:A:N6	36:5:3280:U:C4	2.85	0.44
36:5:3358:U:H2'	36:5:3359:A:H8	1.81	0.44
37:7:92:A:C5	37:7:93:C:H1'	2.51	0.44
39:l2:224:THR:HA	39:l2:237:LEU:O	2.17	0.44
40:l3:300:ARG:HB3	40:l3:300:ARG:CZ	2.46	0.44
45:l8:54:GLU:O	45:l8:58:VAL:HG23	2.17	0.44
54:m8:158:HIS:H	54:m8:186:VAL:HG12	1.83	0.44
63:n7:8:GLY:HA2	63:n7:25:ILE:O	2.17	0.44
1:2:324:U:O2'	13:C1:80:MET:HE1	2.18	0.44
1:2:449:C:H2'	1:2:450:U:C6	2.52	0.44
1:2:1076:A:H4'	28:D6:13:LYS:HD3	1.98	0.44
1:2:1146:G:C6	1:2:1147:A:C6	3.06	0.44
1:2:1231:U:C4	1:2:1255:G:N2	2.85	0.44
7:S5:149:VAL:HG13	7:S5:156:ARG:HD2	2.00	0.44
11:S9:122:VAL:O	11:S9:125:ALA:HB3	2.17	0.44
14:C2:81:ASP:HA	14:C2:82:PRO:HD3	1.73	0.44
21:C9:49:ASP:O	21:C9:51:GLU:N	2.51	0.44
36:1:591:G:H4'	36:1:592:A:OP1	2.16	0.44
36:1:817:A:O2'	73:O7:11:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1221:A:H3'	36:1:1222:G:C5'	2.47	0.44
36:1:1573:G:H2'	36:1:1573:G:N3	2.33	0.44
36:1:1621:A:H2'	36:1:1622:U:C6	2.53	0.44
36:1:3215:A:C4	36:1:3259:U:C2	3.06	0.44
36:1:3254:G:H2'	36:1:3255:U:O4'	2.17	0.44
36:1:3306:U:H2'	36:1:3307:A:H5''	2.00	0.44
38:4:121:U:H2'	38:4:122:U:C6	2.52	0.44
38:4:133:G:H4'	61:N5:55:ASN:CG	2.42	0.44
38:4:146:U:H2'	38:4:147:U:C6	2.52	0.44
41:L4:250:TRP:CH2	41:L4:258:LEU:HD21	2.53	0.44
49:M3:94:GLY:HA3	71:O5:116:TYR:OH	2.17	0.44
56:N0:16:THR:HG23	56:N0:19:VAL:HB	1.99	0.44
74:O8:4:GLU:HG2	74:O8:5:ILE:N	2.31	0.44
1:6:108:A:H2'	1:6:109:G:C8	2.52	0.44
1:6:546:U:H2'	1:6:547:U:C6	2.53	0.44
1:6:1198:G:H4'	22:d0:72:ASN:O	2.18	0.44
1:6:1282:U:OP1	85:6:2099:OHX:N4	2.50	0.44
1:6:1344:A:O2'	1:6:1345:A:OP1	2.31	0.44
1:6:1540:G:C6	1:6:1541:G:C4	3.05	0.44
85:6:2116:OHX:N6	85:6:2152:OHX:N3	2.65	0.44
5:s3:222:VAL:HG11	34:sR:229:LYS:HA	1.98	0.44
7:s5:114:ILE:O	7:s5:117:THR:N	2.50	0.44
8:s6:29:ASP:OD2	8:s6:29:ASP:N	2.50	0.44
11:s9:40:LYS:HA	11:s9:43:TYR:HB2	2.00	0.44
36:5:29:C:O3'	51:m5:172:ARG:NH1	2.51	0.44
36:5:29:C:H4'	36:5:62:A:H4'	1.99	0.44
36:5:172:G:H2'	36:5:172:G:N3	2.33	0.44
36:5:269:G:P	51:m5:44:ARG:HH22	2.38	0.44
36:5:703:G:O2'	36:5:787:G:H4'	2.17	0.44
36:5:1132:C:H4'	36:5:2865:U:O2'	2.18	0.44
36:5:2618:G:P	47:m0:116:ARG:HH21	2.40	0.44
36:5:3149:G:H4'	40:l3:130:PHE:CE1	2.51	0.44
36:5:3284:G:OP1	85:5:4019:OHX:N3	2.49	0.44
37:7:48:U:O2	37:7:50:U:C4	2.70	0.44
40:l3:103:THR:HG21	40:l3:147:GLU:CD	2.43	0.44
41:l4:321:LYS:HB3	41:l4:321:LYS:HE2	1.81	0.44
41:l4:326:ARG:O	44:l7:41:ARG:NH2	2.49	0.44
45:l8:148:ALA:HA	45:l8:201:THR:HG22	2.00	0.44
47:m0:191:LYS:O	47:m0:197:VAL:HG22	2.18	0.44
80:m2:159:UNK:O	80:m2:162:UNK:N	2.51	0.44
1:2:5:U:H2'	1:2:6:G:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:226:A:H2'	1:2:227:U:H5'	1.99	0.44
1:2:263:C:H4'	1:2:292:U:H5'	1.98	0.44
1:2:505:A:H3'	1:2:506:A:H5''	1.99	0.44
1:2:505:A:N6	1:2:507:U:O4	2.44	0.44
1:2:639:U:H1'	1:2:640:U:C5	2.53	0.44
1:2:767:U:H5	11:S9:142:ASN:OD1	2.00	0.44
1:2:1266:U:H2'	1:2:1267:G:C8	2.52	0.44
1:2:1475:A:H2'	1:2:1476:C:O4'	2.16	0.44
1:2:1731:A:H5''	1:2:1732:A:OP2	2.18	0.44
2:S0:160:ILE:HA	2:S0:161:PRO:HD2	1.85	0.44
3:S1:32:ILE:HG22	3:S1:43:VAL:HB	2.00	0.44
7:S5:87:CYS:HA	7:S5:88:PRO:HD2	1.84	0.44
7:S5:123:VAL:O	27:D5:58:ARG:HD2	2.17	0.44
10:S8:152:ILE:HB	10:S8:153:GLU:H	1.52	0.44
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.27	0.44
18:C6:47:LYS:HZ3	18:C6:114:ARG:HG2	1.82	0.44
25:D3:108:GLY:O	25:D3:109:ARG:HG2	2.17	0.44
36:1:415:G:H2'	36:1:416:A:C8	2.53	0.44
36:1:770:G:N7	85:1:3955:OHX:N3	2.65	0.44
36:1:1103:A:N6	36:1:1363:A:N3	2.66	0.44
36:1:1118:C:O2	36:1:1154:A:H2	2.00	0.44
36:1:1915:A:H4'	55:M9:83:GLY:O	2.17	0.44
36:1:2197:C:C2	36:1:2241:U:C4	3.06	0.44
36:1:2412:G:H2'	36:1:2413:A:C8	2.52	0.44
36:1:2828:G:OP1	47:M0:7:ARG:NH1	2.50	0.44
36:1:3003:G:P	40:L3:26:ARG:HH22	2.39	0.44
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.18	0.44
43:L6:7:PRO:HG2	43:L6:10:TYR:CZ	2.52	0.44
43:L6:171:PRO:C	43:L6:173:MET:H	2.25	0.44
56:N0:8:GLN:O	56:N0:8:GLN:HG3	2.16	0.44
57:N1:50:LYS:HB3	57:N1:92:ARG:HH11	1.83	0.44
63:N7:12:VAL:HG22	63:N7:22:LYS:HG2	1.99	0.44
64:N8:73:LEU:HD23	64:N8:112:ILE:HD12	1.98	0.44
71:O5:32:LYS:HG2	71:O5:44:ILE:HD11	1.99	0.44
71:O5:90:ARG:H	71:O5:90:ARG:HG2	1.45	0.44
1:6:15:U:C4	1:6:16:G:C5	3.06	0.44
1:6:37:U:O2'	1:6:770:A:N1	2.34	0.44
1:6:150:U:H1'	8:s6:132:ARG:HD2	2.00	0.44
1:6:525:A:C6	1:6:526:A:C6	3.06	0.44
1:6:567:A:N1	1:6:583:C:H1'	2.33	0.44
1:6:1116:A:H62	1:6:1130:G:N2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1573:A:H4'	1:6:1574:G:H5'	2.00	0.44
1:6:1684:U:H2'	1:6:1685:G:C8	2.52	0.44
1:6:1756[A]:A:H8	1:6:1756[A]:A:O5'	2.00	0.44
3:s1:58:SER:O	3:s1:62:LYS:HD3	2.18	0.44
3:s1:129:THR:OG1	3:s1:130:SER:N	2.49	0.44
5:s3:162:GLN:N	5:s3:163:PRO:HD2	2.33	0.44
6:s4:118:GLU:C	6:s4:120:SER:N	2.75	0.44
11:s9:64:GLU:O	11:s9:65:LYS:HB2	2.17	0.44
11:s9:117:GLY:O	11:s9:119:ALA:N	2.46	0.44
11:s9:129:ILE:HA	11:s9:134:ILE:HD11	1.99	0.44
11:s9:147:MET:O	11:s9:149:ARG:NH1	2.51	0.44
17:c5:127:ARG:NH2	35:sM:66:ALA:HB2	2.32	0.44
35:sM:57:ASN:O	35:sM:61:ILE:HG22	2.18	0.44
36:5:59:G:H2'	38:8:33:A:O2'	2.16	0.44
36:5:516:A:O3'	44:l7:60:ARG:NH2	2.50	0.44
44:l7:116:PHE:HB2	44:l7:199:ASN:OD1	2.18	0.44
44:l7:131:GLU:HG3	44:l7:230:GLY:HA2	1.99	0.44
50:m4:36:VAL:HG12	50:m4:75:GLY:HA2	2.00	0.44
52:m6:27:LEU:HD11	52:m6:102:LEU:HB2	1.98	0.44
59:n3:38:ALA:HB3	59:n3:59:MET:HB2	2.00	0.44
66:o0:75:ASN:HB2	66:o0:76:GLU:OE1	2.17	0.44
68:o2:55:ILE:HD12	68:o2:55:ILE:HA	1.80	0.44
78:q2:12:CYS:CB	78:q2:17:CYS:HB3	2.46	0.44
78:q2:73:GLU:OE1	78:q2:80:ARG:NH1	2.51	0.44
1:2:245:U:O2'	1:2:247:A:N7	2.49	0.44
1:2:542:A:H5''	1:2:544:A:C8	2.53	0.44
1:2:595:G:H2'	1:2:596:C:C6	2.53	0.44
1:2:736:C:C2'	1:2:737:A:H5'	2.47	0.44
1:2:1556:A:O2'	1:2:1560:U:OP2	2.28	0.44
4:S2:169:LEU:HD11	4:S2:188:LEU:HD21	2.00	0.44
5:S3:29:LEU:HB2	5:S3:34:TYR:HB2	2.00	0.44
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.17	0.44
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.53	0.44
8:S6:78:THR:HB	8:S6:79:LYS:HE3	1.99	0.44
18:C6:47:LYS:NZ	18:C6:114:ARG:HG2	2.33	0.44
25:D3:60:GLU:HB3	32:E0:3:LYS:O	2.18	0.44
33:E1:99:LYS:O	33:E1:100:LEU:HB2	2.17	0.44
36:1:341:G:N7	41:L4:195:ARG:NH2	2.57	0.44
36:1:353:G:O6	73:O7:52:LYS:HE2	2.18	0.44
36:1:915:A:C5	36:1:917:A:H1'	2.52	0.44
36:1:1808:G:OP2	63:N7:133:LYS:NZ	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2310:U:OP2	85:1:3997:OHX:N4	2.50	0.44
36:1:2513:U:H4'	36:1:2514:U:OP1	2.17	0.44
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.32	0.44
36:1:2874:G:H4'	87:1:3401:ANM:C6	2.48	0.44
36:1:3103:A:OP2	85:1:4018:OHX:N1	2.51	0.44
36:1:3282:U:H2'	36:1:3283:U:C6	2.52	0.44
85:1:3836:OHX:N3	85:1:4008:OHX:N6	2.65	0.44
37:3:13:A:C8	37:3:13:A:H5''	2.53	0.44
37:3:36:C:O2'	37:3:37:G:H5'	2.18	0.44
38:4:79:A:O3'	38:4:80:A:H4'	2.18	0.44
48:M1:91:LEU:HB3	48:M1:92:ARG:H	1.62	0.44
53:M7:24:VAL:HG12	53:M7:86:LYS:HG2	2.00	0.44
56:N0:151:PRO:C	56:N0:153:PRO:HD3	2.43	0.44
64:N8:90:TYR:CG	64:N8:100:PRO:HG3	2.52	0.44
64:N8:91:LEU:HD13	64:N8:91:LEU:HA	1.83	0.44
68:O2:107:VAL:O	68:O2:110:ALA:HB3	2.17	0.44
1:6:231:U:H2'	1:6:232:U:H5''	2.00	0.44
1:6:459:G:O2'	1:6:460:A:OP1	2.34	0.44
1:6:1050:G:O6	85:6:2157:OHX:N4	2.50	0.44
85:6:2087:OHX:N2	85:6:2112:OHX:N4	2.66	0.44
6:s4:21:ASP:OD2	6:s4:24:SER:OG	2.34	0.44
8:s6:98:ARG:NH2	8:s6:101:ILE:O	2.37	0.44
10:s8:35:ASN:O	10:s8:37:LYS:NZ	2.44	0.44
19:c7:101:ASN:HA	19:c7:120:SER:OG	2.18	0.44
23:d1:74:GLN:OE1	23:d1:83:TRP:N	2.46	0.44
35:sM:23:LYS:NZ	35:sM:23:LYS:HA	2.33	0.44
36:5:32:U:H2'	36:5:33:G:O4'	2.16	0.44
36:5:92:G:OP2	36:5:93:C:H5''	2.16	0.44
36:5:258:G:H2'	36:5:259:C:C6	2.52	0.44
36:5:268:A:C5	51:m5:12:ARG:HG2	2.52	0.44
36:5:781:G:N7	85:5:3836:OHX:N4	2.66	0.44
36:5:1463:U:H2'	36:5:1464:G:O4'	2.18	0.44
36:5:1696:A:H2'	36:5:1697:A:C8	2.53	0.44
36:5:1831:U:H2'	36:5:1832:C:H6	1.83	0.44
38:8:6:U:H2'	38:8:7:U:C6	2.53	0.44
39:l2:113:VAL:HG12	39:l2:166:ILE:HA	2.00	0.44
41:l4:230:VAL:O	41:l4:232:SER:N	2.50	0.44
41:l4:316:ASN:HA	41:l4:317:PRO:HD2	1.62	0.44
47:m0:53:VAL:O	47:m0:164:LYS:N	2.50	0.44
58:n2:47:VAL:C	58:n2:49:ASN:H	2.26	0.44
68:o2:6:HIS:HA	68:o2:7:PRO:HD2	1.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:240:U:H4'	1:2:241:U:OP2	2.16	0.44
1:2:541:A:O2'	1:2:542:A:H4'	2.18	0.44
1:2:740:A:N1	1:2:741:C:C4	2.85	0.44
1:2:868:G:C2	1:2:869:A:C8	3.05	0.44
5:S3:211:PRO:HG2	19:C7:19:ARG:HB2	1.99	0.44
9:S7:55:LYS:HE2	9:S7:87:ASP:HA	2.00	0.44
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.99	0.44
18:C6:99:GLU:OE2	34:SR:60:SER:OG	2.26	0.44
36:1:121:A:C2	45:L8:129:PRO:HB3	2.52	0.44
36:1:669:U:HO2'	36:1:1109:U:HO2'	1.64	0.44
36:1:685:G:P	49:M3:35:ARG:HH11	2.41	0.44
36:1:1352:A:H4'	36:1:1353:U:OP1	2.16	0.44
36:1:1581:C:H2'	36:1:1582:C:C5'	2.48	0.44
36:1:1912:U:C4	36:1:1913:A:C6	3.06	0.44
36:1:3215:A:C5'	50:M4:121:MET:HE1	2.47	0.44
37:3:41:G:H1'	37:3:44:C:N4	2.33	0.44
38:4:15:G:C6	38:4:16:G:N1	2.86	0.44
38:4:35:C:H5''	73:O7:70:VAL:HG11	2.00	0.44
38:4:131:A:H5''	61:N5:93:TYR:CE2	2.52	0.44
41:L4:20:LEU:HA	41:L4:21:PRO:HD3	1.86	0.44
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	2.00	0.44
44:L7:158:LYS:NZ	44:L7:159:GLN:H	2.16	0.44
48:M1:60:ARG:O	48:M1:63:GLU:HB2	2.18	0.44
48:M1:79:ILE:HG22	48:M1:127:PHE:HE2	1.82	0.44
48:M1:92:ARG:HB3	48:M1:94:ARG:HG2	1.99	0.44
49:M3:93:ILE:HD13	49:M3:93:ILE:HA	1.70	0.44
53:M7:24:VAL:CG1	53:M7:86:LYS:HG2	2.48	0.44
59:N3:13:ILE:CD1	59:N3:54:LEU:HB3	2.47	0.44
61:N5:130:TYR:N	61:N5:130:TYR:CD1	2.86	0.44
79:Q3:73:THR:CG2	79:Q3:76:ALA:H	2.27	0.44
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.18	0.44
1:6:425:A:H5'	1:6:425:A:H8	1.82	0.44
1:6:486:G:N2	1:6:487:G:N7	2.66	0.44
1:6:548:G:H2'	1:6:549:G:O4'	2.18	0.44
1:6:683:C:OP2	1:6:683:C:H6	1.99	0.44
1:6:869:A:H2'	1:6:870:C:O4'	2.17	0.44
1:6:1639:C:OP1	85:6:2118:OHX:N5	2.51	0.44
1:6:1751:C:H2'	1:6:1752:U:O4'	2.18	0.44
2:s0:205:ARG:HH22	19:c7:84:TYR:H	1.66	0.44
3:s1:38:PHE:CG	3:s1:73:LEU:HD12	2.52	0.44
5:s3:99:VAL:HG13	5:s3:173:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:35:PRO:HB3	6:s4:143:ASP:O	2.17	0.44
8:s6:139:ASN:O	8:s6:143:LYS:HD2	2.18	0.44
11:s9:92:LYS:HB2	11:s9:95:TYR:HD2	1.83	0.44
16:c4:115:ILE:HG21	28:d6:44:ILE:HG21	2.00	0.44
19:c7:20:TYR:CD1	19:c7:38:ILE:HD12	2.52	0.44
21:c9:15:ILE:HD13	21:c9:60:SER:HA	1.99	0.44
26:d4:60:PHE:HA	26:d4:70:VAL:O	2.18	0.44
27:d5:47:TYR:CE2	27:d5:51:LEU:HD11	2.52	0.44
27:d5:54:VAL:HA	27:d5:57:TYR:CE1	2.53	0.44
28:d6:58:VAL:O	28:d6:59:TYR:HB2	2.18	0.44
33:e1:136:LYS:O	33:e1:138:ARG:N	2.51	0.44
36:5:274:G:O6	85:5:3908:OHX:N1	2.50	0.44
36:5:912:G:H5''	36:5:913:A:P	2.58	0.44
36:5:1178:G:C6	36:5:1179:A:N1	2.85	0.44
36:5:1595:U:H1'	36:5:1596:C:C6	2.53	0.44
36:5:1739:U:H1'	70:o4:41:ARG:NH1	2.31	0.44
36:5:2941:A:OP2	40:l3:255:CYS:HB2	2.18	0.44
37:7:27:A:C2	37:7:28:C:C2	3.05	0.44
40:l3:80:ASP:OD2	40:l3:314:TYR:OH	2.35	0.44
45:l8:239:GLY:O	45:l8:240:ASN:C	2.61	0.44
49:m3:107:GLU:H	49:m3:107:GLU:HG2	1.39	0.44
51:m5:73:ARG:C	51:m5:75:VAL:H	2.26	0.44
52:m6:57:PHE:O	52:m6:72:HIS:HE1	2.01	0.44
54:m8:62:VAL:HB	54:m8:83:VAL:HG11	1.99	0.44
54:m8:100:THR:HB	54:m8:120:GLU:HB3	1.99	0.44
59:n3:17:LEU:O	59:n3:52:ALA:N	2.46	0.44
61:n5:57:LEU:HD23	61:n5:57:LEU:HA	1.73	0.44
73:o7:28:HIS:ND1	73:o7:31:LYS:HB2	2.32	0.44
81:p0:38:MET:O	81:p0:42:ARG:HG2	2.16	0.44
81:p0:44:GLU:OE1	81:p0:99:VAL:HG13	2.17	0.44
1:2:398:G:P	10:S8:47:ARG:HH12	2.40	0.44
1:2:616:G:C2	1:2:622:A:N7	2.85	0.44
1:2:641:G:H2'	1:2:642:G:H8	1.83	0.44
1:2:1086:A:C6	1:2:1087:A:C6	3.06	0.44
1:2:1271:G:C6	1:2:1272:U:C4	3.05	0.44
1:2:1541:G:C5	1:2:1542:G:C6	3.06	0.44
1:2:1581:C:O2'	1:2:1582:U:H5'	2.18	0.44
1:2:1615:C:HO2'	1:2:1616:G:P	2.39	0.44
1:2:1788:G:OP2	16:C4:127:ARG:NH2	2.51	0.44
1:2:1793:G:O6	28:D6:34:LYS:NZ	2.46	0.44
2:S0:79:ARG:O	2:S0:83:GLN:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:58:LYS:C	8:S6:60:GLY:H	2.25	0.44
11:S9:70:LEU:O	11:S9:74:ASN:HB2	2.18	0.44
23:D1:72:LEU:HA	23:D1:75:ASN:HD21	1.82	0.44
25:D3:107:PHE:CE2	25:D3:114:LYS:HB2	2.53	0.44
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	2.00	0.44
35:SM:44:PRO:HA	36:1:2678:A:C4	2.52	0.44
35:SM:71:ASN:N	35:SM:71:ASN:OD1	2.49	0.44
36:1:597:G:OP1	44:L7:37:ASN:HB3	2.18	0.44
36:1:1098:A:O2'	57:N1:130:ARG:O	2.28	0.44
36:1:1231:A:H5''	36:1:1232:C:H5'	2.00	0.44
36:1:1565:G:N2	36:1:1574:C:C2	2.85	0.44
36:1:2812:C:H2'	36:1:2813:A:C8	2.53	0.44
85:1:3927:OHX:N3	85:1:3975:OHX:N4	2.66	0.44
40:L3:37:ARG:HA	40:L3:185:GLY:O	2.17	0.44
42:L5:187:THR:O	42:L5:189:GLU:N	2.51	0.44
42:L5:279:LYS:HE2	42:L5:282:ARG:HD2	1.99	0.44
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.53	0.44
48:M1:166:LYS:O	48:M1:167:TYR:HB2	2.17	0.44
50:M4:50:LYS:NZ	50:M4:86:ALA:HB2	2.33	0.44
54:M8:89:ASP:OD1	54:M8:90:ASP:N	2.51	0.44
57:N1:55:LYS:O	57:N1:58:GLN:HB3	2.18	0.44
64:N8:128:ARG:HG2	72:O6:8:ALA:HB2	2.00	0.44
65:N9:28:LYS:HA	65:N9:28:LYS:HD3	1.71	0.44
70:O4:41:ARG:O	70:O4:43:LYS:HD3	2.16	0.44
71:O5:73:LYS:HE2	71:O5:73:LYS:HB3	1.64	0.44
73:O7:45:ARG:NH1	73:O7:47:TYR:HE2	2.16	0.44
1:6:158:U:O2'	1:6:160:C:OP2	2.30	0.44
1:6:329:G:H5''	10:s8:98:LYS:HB3	1.99	0.44
1:6:538:A:C8	1:6:543:C:N4	2.78	0.44
1:6:590:C:H5''	32:e0:43:ARG:HH12	1.82	0.44
1:6:867:G:C4	1:6:868:G:C8	3.06	0.44
1:6:892:A:C6	1:6:893:U:C4	3.06	0.44
1:6:909:U:O2'	1:6:910:C:H5'	2.18	0.44
1:6:913:G:H3'	1:6:914:G:H5'	1.99	0.44
1:6:1400:A:H5'	19:c7:60:ARG:NH2	2.32	0.44
1:6:1654:G:C6	1:6:1745:G:C6	3.06	0.44
3:s1:59:ASP:O	3:s1:61:LEU:N	2.42	0.44
6:s4:142:HIS:CE1	6:s4:226:PHE:HE2	2.36	0.44
11:s9:81:VAL:C	11:s9:83:VAL:H	2.26	0.44
12:c0:10:LYS:NZ	12:c0:36:ASP:HB3	2.32	0.44
13:c1:107:VAL:HA	13:c1:108:PRO:HD2	1.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:99:GLU:OE2	34:sR:60:SER:HB2	2.18	0.44
22:d0:58:LEU:HD12	22:d0:88:LYS:HB3	1.99	0.44
36:5:1064:A:N6	36:5:1096:U:H3	2.16	0.44
36:5:1729:A:H4'	36:5:1730:G:OP2	2.18	0.44
36:5:3242:G:H2'	40:l3:154:TYR:CD1	2.53	0.44
39:l2:116:VAL:CG1	39:l2:126:LEU:HB2	2.47	0.44
42:l5:144:VAL:HG12	42:l5:173:VAL:HG22	2.00	0.44
42:l5:269:SER:O	42:l5:270:LYS:HB2	2.18	0.44
50:m4:113:THR:HG22	50:m4:114:ASP:N	2.33	0.44
52:m6:143:THR:HG22	52:m6:147:TRP:O	2.18	0.44
54:m8:134:GLY:O	54:m8:137:THR:OG1	2.36	0.44
59:n3:66:LYS:HD2	59:n3:68:GLU:OE1	2.18	0.44
62:n6:56:VAL:HG11	62:n6:104:LEU:HD13	1.98	0.44
64:n8:75:LEU:C	64:n8:77:LYS:N	2.76	0.44
81:p0:53:MET:SD	81:p0:85:GLY:HA3	2.57	0.44
81:p0:77:LEU:C	81:p0:79:PHE:H	2.26	0.44
1:2:68:A:H5''	8:S6:162:VAL:HG21	2.00	0.44
1:2:520:A:H2'	1:2:521:A:H8	1.83	0.44
1:2:563:U:H4'	32:E0:17:GLN:OE1	2.18	0.44
1:2:861:U:H5'	1:2:862:A:OP2	2.17	0.44
1:2:1351:G:N1	1:2:1375:A:C2	2.86	0.44
1:2:1550:A:H2'	1:2:1551:U:C6	2.53	0.44
3:S1:48:VAL:HG13	3:S1:61:LEU:HD21	1.98	0.44
5:S3:212:LYS:HE2	5:S3:212:LYS:HB2	1.77	0.44
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.17	0.44
7:S5:113:ILE:HG21	7:S5:190:ILE:HG22	2.00	0.44
8:S6:55:GLY:HA3	8:S6:63:MET:HE3	2.00	0.44
16:C4:128:LYS:HZ3	16:C4:128:LYS:HG2	1.69	0.44
17:C5:25:LEU:HD23	17:C5:28:MET:HE1	1.99	0.44
22:D0:108:ILE:H	22:D0:108:ILE:HG13	1.45	0.44
25:D3:19:ARG:O	25:D3:23:ARG:HG2	2.18	0.44
33:E1:96:LYS:HD2	33:E1:96:LYS:HA	1.69	0.44
36:1:121:A:C6	45:L8:129:PRO:HG3	2.53	0.44
36:1:259:C:H2'	36:1:260:C:C6	2.53	0.44
36:1:412:G:C6	36:1:413:U:C4	3.06	0.44
36:1:435:C:H2'	36:1:436:A:H8	1.83	0.44
36:1:952:A:N3	36:1:1114:U:O2'	2.41	0.44
36:1:1615:C:H2'	36:1:1616:U:C6	2.53	0.44
36:1:1857:C:C4	36:1:1858:A:C6	3.06	0.44
36:1:1877:U:H5''	36:1:1878:G:O4'	2.18	0.44
36:1:2317:A:H2'	36:1:2318:U:O4'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2659:G:C2	36:1:2712:U:O2	2.71	0.44
36:1:2933:A:C2	36:1:3014:U:H4'	2.52	0.44
36:1:3007:U:OP1	52:M6:73:PHE:HA	2.17	0.44
36:1:3106:A:H2'	36:1:3107:U:O4'	2.18	0.44
85:1:3944:OHX:N6	85:1:4007:OHX:N3	2.66	0.44
40:L3:3:HIS:ND1	40:L3:3:HIS:C	2.76	0.44
41:L4:294:GLU:OE1	41:L4:294:GLU:N	2.44	0.44
42:L5:152:ARG:HG3	42:L5:152:ARG:HH11	1.82	0.44
45:L8:156:ASP:HB2	45:L8:157:VAL:H	1.54	0.44
47:M0:210:ILE:HG23	47:M0:217:PHE:CE2	2.53	0.44
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.33	0.44
53:M7:41:LEU:O	53:M7:45:GLN:HG3	2.17	0.44
67:O1:79:ARG:H	67:O1:79:ARG:NE	2.16	0.44
1:6:655:G:H2'	1:6:656:G:C8	2.53	0.44
1:6:948:G:C2	1:6:949:C:C2	3.06	0.44
1:6:1777:G:H2'	1:6:1778:G:H8	1.82	0.44
4:s2:54:GLU:O	4:s2:58:LEU:HB2	2.18	0.44
5:s3:34:TYR:CE2	5:s3:37:VAL:HG13	2.53	0.44
6:s4:118:GLU:C	6:s4:120:SER:H	2.25	0.44
6:s4:205:PHE:HB3	6:s4:221:ARG:HD2	2.00	0.44
8:s6:98:ARG:HD3	8:s6:99:GLY:N	2.33	0.44
12:c0:71:GLU:H	12:c0:71:GLU:HG2	1.35	0.44
26:d4:121:THR:C	26:d4:123:LYS:H	2.26	0.44
29:d7:23:THR:HG21	29:d7:29:ARG:NH2	2.22	0.44
32:e0:41:THR:HA	32:e0:45:VAL:HB	1.99	0.44
36:5:767:U:H1'	36:5:768:C:C6	2.53	0.44
36:5:1565:G:N2	36:5:1566:A:H1'	2.33	0.44
36:5:2407:C:H1'	36:5:2818:U:C2	2.52	0.44
36:5:3215:A:O5'	50:m4:121:MET:HE1	2.18	0.44
39:l2:47:GLN:HA	39:l2:84:THR:HG22	2.00	0.44
39:l2:83:HIS:CE1	39:l2:86:GLN:HB2	2.53	0.44
40:l3:81:THR:HG23	40:l3:81:THR:O	2.17	0.44
41:l4:80:GLY:HA2	41:l4:85:SER:OG	2.18	0.44
41:l4:140:HIS:CD2	41:l4:247:PHE:H	2.36	0.44
42:l5:108:ARG:NH2	42:l5:253:PHE:HA	2.32	0.44
45:l8:68:ARG:O	45:l8:69:LEU:HB2	2.18	0.44
46:l9:75:VAL:HA	46:l9:78:MET:HE3	2.00	0.44
47:m0:75:TYR:CE2	47:m0:79:VAL:HG21	2.53	0.44
52:m6:177:LYS:O	52:m6:181:ALA:N	2.49	0.44
53:m7:59:PRO:HG3	53:m7:76:PHE:CD1	2.53	0.44
54:m8:96:PHE:CG	54:m8:97:PRO:HD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:n3:13:ILE:CG1	59:n3:53:SER:HB2	2.47	0.44
71:o5:101:THR:HG23	71:o5:103:LYS:H	1.83	0.44
1:2:420:A:H2'	1:2:421:A:O4'	2.18	0.43
1:2:505:A:H2'	1:2:505:A:N3	2.33	0.43
1:2:637:C:OP1	24:D2:32:LYS:HG3	2.18	0.43
1:2:810:G:N7	9:S7:111:LYS:HE3	2.33	0.43
1:2:959:U:H2'	1:2:959:U:O2	2.17	0.43
1:2:987:G:C2	39:L2:249:SER:HB2	2.53	0.43
1:2:1102:G:OP1	24:D2:76:SER:OG	2.35	0.43
1:2:1244:A:HO2'	1:2:1245:G:P	2.41	0.43
1:2:1341:A:OP1	34:SR:63:GLY:HA2	2.18	0.43
6:S4:208:VAL:HG11	6:S4:225:VAL:HG21	1.99	0.43
7:S5:37:GLN:HB3	18:C6:53:LEU:HD22	2.00	0.43
17:C5:26:LEU:HD12	17:C5:26:LEU:HA	1.79	0.43
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.51	0.43
29:D7:59:CYS:O	29:D7:61:THR:HG22	2.18	0.43
36:1:559:A:H4'	36:1:559:A:OP1	2.17	0.43
36:1:1127:G:H8	36:1:1127:G:O5'	2.01	0.43
36:1:1722:U:H1'	55:M9:96:ILE:HG12	2.00	0.43
36:1:2910:A:O2'	36:1:3130:A:N1	2.40	0.43
36:1:2952:G:H2'	36:1:2953:U:O4'	2.18	0.43
36:1:3182:G:C6	36:1:3183:A:C5	3.06	0.43
38:4:79:A:H2'	38:4:80:A:H1'	1.99	0.43
53:M7:112:LEU:HD12	53:M7:112:LEU:HA	1.86	0.43
57:N1:89:LEU:HD23	57:N1:91:LEU:HD11	2.00	0.43
62:N6:12:ARG:O	62:N6:16:ARG:HG3	2.18	0.43
64:N8:7:LYS:HD3	64:N8:7:LYS:HA	1.74	0.43
66:O0:44:ILE:HG23	66:O0:48:THR:HG21	2.00	0.43
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.99	0.43
69:O3:90:PRO:C	69:O3:92:LYS:H	2.26	0.43
1:6:6:G:OP2	4:s2:205:ARG:HD2	2.18	0.43
1:6:615:A:H1'	1:6:1107:G:N2	2.32	0.43
1:6:827:C:H2'	1:6:828:U:H6	1.83	0.43
1:6:858:G:OP1	9:s7:116:ARG:NH2	2.51	0.43
1:6:1046:G:C2	1:6:1073:G:C2	3.05	0.43
1:6:1450:U:OP2	85:6:2090:OHX:N4	2.51	0.43
1:6:1558:U:H3	17:c5:122:THR:CG2	2.31	0.43
1:6:1579:U:O2'	18:c6:139:GLN:HA	2.17	0.43
3:s1:70:LEU:HB3	3:s1:79:HIS:CB	2.48	0.43
5:s3:90:ARG:HB3	5:s3:91:VAL:H	1.68	0.43
6:s4:107:GLY:HA2	6:s4:189:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:170:THR:O	6:s4:170:THR:OG1	2.27	0.43
8:s6:156:PHE:CE2	60:n4:93:ARG:HD2	2.53	0.43
9:s7:20:VAL:O	9:s7:24:PHE:N	2.51	0.43
13:c1:67:ARG:N	13:c1:67:ARG:HD3	2.33	0.43
14:c2:45:LEU:O	14:c2:49:THR:HG23	2.18	0.43
15:c3:123:HIS:CE1	36:5:847:A:H5'	2.53	0.43
20:c8:94:ASP:OD1	20:c8:96:LYS:HG3	2.18	0.43
23:d1:56:SER:OG	23:d1:59:VAL:HG23	2.17	0.43
24:d2:30:SER:HB3	24:d2:59:GLY:HA3	1.98	0.43
28:d6:59:TYR:HA	28:d6:60:PRO:HD3	1.76	0.43
36:5:65:A:C4	36:5:110:G:N7	2.85	0.43
36:5:916:G:H5'	36:5:917:A:OP1	2.17	0.43
36:5:1366:A:C2	36:5:1367:G:C4	3.05	0.43
36:5:1672:U:OP1	55:m9:64:ARG:NE	2.41	0.43
36:5:2505:U:H2'	36:5:2506:U:C4	2.53	0.43
36:5:3153:U:H1'	36:5:3154:C:C6	2.53	0.43
36:5:3288:G:C4	36:5:3289:G:C8	3.06	0.43
85:5:4049:OHX:N4	85:5:4054:OHX:N3	2.65	0.43
37:7:55:A:C2	48:m1:9:MET:HG2	2.53	0.43
39:l2:136:ILE:H	39:l2:136:ILE:HD12	1.82	0.43
39:l2:140:ASN:OD1	39:l2:142:ASP:HB3	2.17	0.43
39:l2:144:ASN:O	39:l2:160:SER:N	2.26	0.43
40:l3:95:THR:C	40:l3:97:ARG:H	2.26	0.43
42:l5:265:TYR:O	42:l5:269:SER:N	2.44	0.43
43:l6:10:TYR:HA	43:l6:11:PRO:HD3	1.81	0.43
44:l7:140:SER:O	44:l7:144:ILE:HG13	2.18	0.43
58:n2:16:THR:HG22	58:n2:64:THR:OG1	2.17	0.43
65:n9:39:PHE:O	65:n9:43:HIS:N	2.46	0.43
1:2:229:U:H2'	1:2:230:C:C6	2.52	0.43
1:2:525:A:C6	1:2:526:A:C6	3.06	0.43
1:2:1339:C:O2'	1:2:1341:A:C8	2.69	0.43
1:2:1497:U:OP2	85:2:1991:OHX:N1	2.51	0.43
2:S0:101:ARG:NH2	2:S0:104:PRO:HD3	2.33	0.43
2:S0:110:TYR:CD1	2:S0:111:ILE:HD13	2.52	0.43
3:S1:58:SER:O	3:S1:62:LYS:HG3	2.18	0.43
3:S1:109:LYS:HE3	3:S1:113:MET:HE2	2.00	0.43
5:S3:25:PHE:HE1	5:S3:69:LEU:HD13	1.82	0.43
7:S5:89:ILE:H	7:S5:89:ILE:HG13	1.44	0.43
8:S6:64:LYS:O	8:S6:67:VAL:HG22	2.18	0.43
11:S9:33:GLU:O	11:S9:122:VAL:HG11	2.18	0.43
11:S9:126:ARG:O	11:S9:130:THR:HG22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.53	0.43
32:E0:38:LEU:O	32:E0:42:ARG:HB2	2.18	0.43
34:SR:295:SER:HB2	34:SR:300:THR:HB	2.00	0.43
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.51	0.43
36:1:662:U:O4	36:1:801:A:H1'	2.18	0.43
36:1:1038:C:H4'	42:L5:5:LYS:HZ1	1.82	0.43
36:1:1400:G:C2	36:1:1401:A:C8	3.06	0.43
36:1:1734:G:H2'	36:1:1735:G:O4'	2.18	0.43
36:1:2168:A:C6	36:1:2170:U:H1'	2.53	0.43
36:1:2265:C:H2'	36:1:2266:U:C6	2.53	0.43
36:1:2321:A:H2'	36:1:2322:C:O4'	2.18	0.43
36:1:2534:G:H2'	36:1:2535:A:C8	2.53	0.43
36:1:3192:U:H2'	36:1:3193:C:C6	2.54	0.43
36:1:3200:G:C6	36:1:3201:C:C4	3.06	0.43
37:3:13:A:H5''	37:3:13:A:H8	1.81	0.43
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.17	0.43
41:L4:42:VAL:C	41:L4:44:LYS:H	2.26	0.43
41:L4:52:VAL:CG1	41:L4:99:MET:HE3	2.46	0.43
47:M0:208:ASN:HA	47:M0:211:ARG:HB2	2.00	0.43
48:M1:30:LEU:O	48:M1:34:SER:N	2.48	0.43
51:M5:101:THR:O	51:M5:105:ARG:HG3	2.17	0.43
54:M8:178:ARG:HE	64:N8:50:PRO:CG	2.30	0.43
66:O0:53:LYS:HD2	66:O0:69:TYR:CE2	2.53	0.43
69:O3:60:ARG:HB2	69:O3:60:ARG:NH2	2.32	0.43
1:6:93:A:H1'	6:s4:3:ARG:HB3	1.99	0.43
1:6:151:G:H22	1:6:163:G:N2	2.16	0.43
1:6:154:G:H1	1:6:160:C:N4	2.12	0.43
1:6:359:A:C2	25:d3:38:PHE:HB3	2.52	0.43
1:6:566:C:O2'	32:e0:10:ARG:HD2	2.17	0.43
1:6:587:C:H2'	1:6:588:U:O4'	2.18	0.43
1:6:862:A:H4'	1:6:863:A:O5'	2.19	0.43
1:6:1101:G:O2'	24:d2:5:SER:HB2	2.18	0.43
7:s5:45:LYS:HA	7:s5:45:LYS:HD3	1.39	0.43
7:s5:63:GLN:HE22	7:s5:66:GLN:H	1.66	0.43
7:s5:131:GLN:HE21	7:s5:135:ASP:CG	2.25	0.43
10:s8:194:ARG:HB3	10:s8:195:ARG:NH1	2.33	0.43
31:d9:30:LEU:HA	31:d9:39:CYS:HA	1.99	0.43
35:sM:59:GLY:O	35:sM:63:ASP:N	2.36	0.43
36:5:312:C:H2'	36:5:313:A:H8	1.84	0.43
36:5:340:C:O2'	36:5:341:G:H5'	2.18	0.43
36:5:1249:G:H2'	36:5:1250:G:H8	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1345:G:O6	85:5:3909:OHX:N2	2.51	0.43
36:5:1352:A:H1'	36:5:1353:U:O5'	2.17	0.43
36:5:1355:A:H4'	36:5:1356:U:O5'	2.18	0.43
36:5:1740:U:H1'	36:5:1741:A:N7	2.32	0.43
36:5:2655:U:H4'	36:5:2656:A:O4'	2.19	0.43
36:5:2947:G:C2	40:l3:250:ALA:HB1	2.52	0.43
36:5:3078:U:O2	36:5:3078:U:O5'	2.37	0.43
37:7:30:G:C6	37:7:31:U:C4	3.06	0.43
38:8:62:C:O2	85:8:216:OHX:N1	2.51	0.43
40:l3:258:ALA:O	40:l3:259:HIS:CD2	2.71	0.43
42:l5:88:ILE:HD12	42:l5:240:TYR:CE1	2.53	0.43
42:l5:224:LYS:HE3	42:l5:224:LYS:HB2	1.61	0.43
45:l8:166:LEU:O	45:l8:169:LEU:N	2.49	0.43
53:m7:62:ARG:O	53:m7:64:ASN:N	2.51	0.43
54:m8:58:ASN:HB3	54:m8:144:ARG:HH21	1.83	0.43
54:m8:102:ALA:HB1	54:m8:124:LEU:HD23	2.00	0.43
60:n4:42:GLN:O	60:n4:43:ARG:HB2	2.17	0.43
70:o4:94:LEU:HA	70:o4:94:LEU:HD23	1.79	0.43
1:2:698:U:O4'	9:S7:107:ARG:HD3	2.18	0.43
1:2:704:C:N4	1:2:735:C:N3	2.67	0.43
1:2:868:G:H1	1:2:960:U:H3	1.65	0.43
1:2:1164:G:H2'	1:2:1165:G:C8	2.54	0.43
1:2:1414:U:H3'	1:2:1415:U:H5''	2.00	0.43
1:2:1549:C:P	17:C5:39:ALA:H	2.40	0.43
2:S0:71:GLU:HA	2:S0:94:GLY:O	2.17	0.43
3:S1:29:TRP:NE1	3:S1:47:LEU:HG	2.33	0.43
3:S1:157:GLN:HB2	3:S1:160:HIS:ND1	2.33	0.43
6:S4:49:ARG:NH1	6:S4:50:ASN:OD1	2.43	0.43
7:S5:117:THR:HG22	7:S5:121:ILE:HD11	2.00	0.43
8:S6:21:GLU:O	8:S6:25:ARG:HB2	2.17	0.43
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.33	0.43
9:S7:41:LEU:HD13	9:S7:70:PHE:HD1	1.82	0.43
10:S8:138:ASN:O	10:S8:142:LYS:HG3	2.19	0.43
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	1.99	0.43
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.99	0.43
15:C3:136:PRO:O	15:C3:138:ASN:N	2.51	0.43
18:C6:100:GLN:OE1	34:SR:56:VAL:HG11	2.18	0.43
22:D0:117:VAL:O	22:D0:118:VAL:HB	2.18	0.43
25:D3:92:CYS:SG	25:D3:132:LEU:HD12	2.58	0.43
31:D9:5:ASN:C	31:D9:7:TRP:H	2.27	0.43
34:SR:227:ALA:O	34:SR:229:LYS:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:705:A:N3	36:1:715:A:C6	2.86	0.43
36:1:1060:U:H2'	36:1:1061:A:C8	2.54	0.43
36:1:1286:A:N3	36:1:1287:A:H1'	2.33	0.43
36:1:2148:U:H2'	36:1:2149:A:C4	2.52	0.43
36:1:2766:U:H2'	36:1:2767:U:O4'	2.18	0.43
36:1:2943:G:C8	40:L3:2:SER:N	2.86	0.43
36:1:3030:G:C5	36:1:3031:G:C5	3.06	0.43
36:1:3217:C:C4	53:M7:182:ILE:HG23	2.53	0.43
37:3:39:C:N3	48:M1:70:THR:HG23	2.32	0.43
39:L2:140:ASN:O	39:L2:144:ASN:HA	2.18	0.43
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	1.99	0.43
41:L4:26:PHE:HA	41:L4:127:ALA:HA	1.99	0.43
41:L4:145:ILE:O	41:L4:145:ILE:HG13	2.16	0.43
42:L5:25:GLU:O	42:L5:27:LYS:HG3	2.19	0.43
44:L7:144:ILE:O	44:L7:148:VAL:HG23	2.19	0.43
56:N0:66:GLU:OE2	56:N0:73:LYS:HE3	2.17	0.43
62:N6:35:LEU:HG	62:N6:47:ALA:HA	2.00	0.43
63:N7:27:LYS:HE3	63:N7:29:HIS:HE1	1.83	0.43
69:O3:35:VAL:HG13	69:O3:40:ASP:HB2	2.00	0.43
70:O4:108:GLN:O	70:O4:112:ALA:N	2.51	0.43
72:O6:5:THR:HG23	72:O6:12:ASN:O	2.17	0.43
1:6:72:A:H5'	1:6:73:U:OP2	2.18	0.43
1:6:485:A:C5	1:6:486:G:H1'	2.53	0.43
1:6:852:C:OP1	55:m9:172:ARG:NH1	2.45	0.43
1:6:859:A:C5	15:c3:73:ARG:HD3	2.54	0.43
1:6:902:G:H2'	1:6:903:U:C6	2.54	0.43
1:6:1087:A:H2'	1:6:1088:A:H8	1.82	0.43
4:s2:94:GLN:HG2	4:s2:95:ARG:H	1.83	0.43
4:s2:237:VAL:O	4:s2:238:SER:OG	2.36	0.43
11:s9:80:LEU:HB3	11:s9:86:LEU:HB2	1.99	0.43
15:c3:148:ALA:O	85:c3:201:OHX:N4	2.51	0.43
17:c5:107:ILE:HA	17:c5:111:MET:SD	2.58	0.43
19:c7:88:VAL:HG22	19:c7:95:ARG:NH1	2.33	0.43
36:5:48:A:O4'	36:5:50:U:C6	2.71	0.43
36:5:361:A:N3	36:5:814:U:H1'	2.33	0.43
36:5:985:U:H2'	36:5:986:U:C6	2.53	0.43
36:5:1354:G:C6	36:5:1358:C:H5'	2.53	0.43
36:5:1494:U:P	75:o9:42:ARG:HH22	2.41	0.43
36:5:1636:U:H5''	63:n7:73:LYS:HE2	2.00	0.43
36:5:2211:U:H5	36:5:2234:G:O6	2.01	0.43
36:5:2560:C:O2	85:5:3875:OHX:N2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2587:U:H2'	36:5:2588:U:H6	1.84	0.43
49:m3:123:ILE:HG22	71:o5:118:ILE:HG12	1.99	0.43
51:m5:143:ARG:NH2	71:o5:92:LEU:HD23	2.32	0.43
53:m7:23:ARG:HE	53:m7:125:GLN:HG3	1.83	0.43
63:n7:5:LEU:HD22	63:n7:77:TYR:CE2	2.53	0.43
63:n7:12:VAL:HB	63:n7:81:LEU:HB3	2.00	0.43
1:2:154:G:H1'	8:S6:56:ASN:ND2	2.34	0.43
1:2:273:G:N2	1:2:283:U:O2	2.40	0.43
1:2:904:G:H2'	1:2:905:A:O4'	2.18	0.43
1:2:1251:U:H4'	33:E1:133:ALA:HB1	2.00	0.43
1:2:1282:U:OP1	85:2:2074:OHX:N5	2.52	0.43
1:2:1535:U:H6	1:2:1535:U:H2'	1.67	0.43
1:2:1613:U:OP2	7:S5:84:LYS:HE3	2.18	0.43
2:S0:26:ALA:HB3	2:S0:149:LEU:HB2	2.00	0.43
9:S7:142:TYR:HE1	24:D2:39:GLN:HE21	1.66	0.43
12:C0:10:LYS:HD3	12:C0:36:ASP:HB3	2.00	0.43
12:C0:49:LEU:O	12:C0:54:TYR:HB2	2.19	0.43
35:SM:79:SER:HA	35:SM:82:THR:HG23	2.00	0.43
36:1:342:A:C6	36:1:349:A:C8	3.06	0.43
36:1:435:C:H2'	36:1:436:A:C8	2.54	0.43
36:1:552:G:C2	36:1:553:U:C2	3.07	0.43
36:1:966:U:H2'	36:1:967:A:C8	2.53	0.43
36:1:1171:G:O6	85:1:3818:OHX:N2	2.52	0.43
36:1:1257:C:N4	36:1:1261:G:H22	2.15	0.43
36:1:1472:U:H5'	55:M9:4:LEU:HB2	2.01	0.43
36:1:2225:U:H2'	36:1:2226:U:H6	1.83	0.43
36:1:2443:A:O2'	36:1:2444:C:OP2	2.28	0.43
36:1:2533:G:H3'	36:1:2534:G:C8	2.54	0.43
36:1:2641:U:OP1	85:1:3987:OHX:N4	2.50	0.43
36:1:2703:A:OP2	42:L5:23:ARG:NH1	2.48	0.43
36:1:2814:G:OP1	41:L4:73:ARG:NH2	2.51	0.43
36:1:3380:U:H2'	36:1:3381:U:C6	2.54	0.43
85:1:3940:OHX:N4	85:1:4004:OHX:N3	2.66	0.43
37:3:35:C:N3	37:3:45:A:O2'	2.45	0.43
39:L2:137:ILE:HD11	39:L2:147:ARG:HG2	2.00	0.43
39:L2:201:GLY:CA	39:L2:204:MET:HG3	2.47	0.43
39:L2:204:MET:HE2	39:L2:209:HIS:CD2	2.54	0.43
42:L5:279:LYS:HD3	42:L5:282:ARG:HB2	1.99	0.43
43:L6:102:ASN:HD21	43:L6:104:GLU:HB2	1.83	0.43
53:M7:89:LYS:HA	53:M7:92:GLN:HG2	2.00	0.43
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:10:ILE:O	56:N0:59:VAL:N	2.46	0.43
64:N8:92:LYS:O	64:N8:93:SER:HB3	2.19	0.43
70:O4:46:ASP:HB2	70:O4:84:CYS:SG	2.58	0.43
78:Q2:55:LYS:HE3	78:Q2:55:LYS:HB3	1.88	0.43
1:6:147:A:H2'	1:6:148:A:O4'	2.17	0.43
1:6:246:G:N3	13:c1:40:LEU:HD22	2.34	0.43
1:6:1208:A:H4'	1:6:1270:G:OP1	2.18	0.43
1:6:1556:A:H5''	17:c5:115:TYR:OH	2.19	0.43
2:s0:7:PHE:HZ	23:d1:43:GLY:HA2	1.82	0.43
6:s4:9:LEU:HD12	6:s4:30:ARG:HA	2.01	0.43
8:s6:109:LEU:HD13	8:s6:111:LEU:HD21	2.00	0.43
10:s8:184:LEU:HD12	10:s8:184:LEU:HA	1.83	0.43
16:c4:91:THR:C	16:c4:93:THR:H	2.26	0.43
18:c6:20:ALA:HB2	18:c6:84:ALA:HB1	2.01	0.43
21:c9:23:GLN:HG3	21:c9:55:TYR:CE2	2.52	0.43
21:c9:33:TYR:C	21:c9:35:ASP:H	2.27	0.43
21:c9:109:GLU:C	21:c9:112:GLY:H	2.26	0.43
23:d1:9:VAL:HG22	23:d1:10:GLU:H	1.82	0.43
34:sR:276:PRO:HB2	34:sR:278:PHE:CE1	2.53	0.43
36:5:166:C:H2'	36:5:167:U:C6	2.53	0.43
36:5:229:G:C6	36:5:230:U:C4	3.06	0.43
36:5:335:G:C6	36:5:336:A:N7	2.86	0.43
36:5:736:A:N6	36:5:737:G:N3	2.67	0.43
36:5:1233:G:H5'	81:p0:36:GLN:OE1	2.19	0.43
36:5:1479:U:C3'	36:5:1480:G:H5'	2.48	0.43
36:5:2154:U:H5''	39:l2:242:ARG:O	2.18	0.43
36:5:2523:A:H4'	36:5:2524:A:OP2	2.17	0.43
36:5:2526:C:H1'	36:5:2588:U:H5''	2.00	0.43
36:5:2541:U:H4'	36:5:2542:U:OP1	2.19	0.43
36:5:2576:G:C6	36:5:2577:C:C4	3.07	0.43
85:5:3934:OHX:N5	85:5:4038:OHX:N2	2.67	0.43
40:l3:53:MET:HE1	40:l3:327:CYS:HB3	2.00	0.43
40:l3:92:TYR:HA	40:l3:100:ARG:O	2.19	0.43
40:l3:380:MET:HE2	40:l3:380:MET:HB3	1.76	0.43
45:l8:94:PHE:CD2	45:l8:189:LEU:HD21	2.53	0.43
53:m7:25:SER:CB	53:m7:28:ASN:HB2	2.48	0.43
53:m7:135:ARG:O	53:m7:136:ILE:HG12	2.18	0.43
55:m9:134:HIS:CE1	55:m9:137:ALA:HB2	2.53	0.43
56:n0:12:ARG:HD2	56:n0:22:PRO:HG2	2.01	0.43
62:n6:47:ALA:O	62:n6:122:LYS:NZ	2.33	0.43
66:o0:14:LEU:HD21	66:o0:43:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:o6:9:ILE:C	72:o6:13:LYS:HB3	2.43	0.43
81:p0:42:ARG:O	81:p0:46:ARG:HG2	2.18	0.43
1:2:515:A:OP2	85:2:2029:OHX:N3	2.52	0.43
1:2:1681:A:H2'	1:2:1682:U:H5'	1.99	0.43
85:2:2054:OHX:N6	85:2:2068:OHX:N2	2.66	0.43
5:S3:12:VAL:HG21	31:D9:34:TYR:HB3	2.01	0.43
5:S3:113:LEU:HD21	5:S3:117:ARG:HH11	1.84	0.43
6:S4:257:ALA:O	6:S4:259:GLN:N	2.51	0.43
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.19	0.43
11:S9:129:ILE:HG12	11:S9:134:ILE:HD11	2.01	0.43
19:C7:29:GLN:O	19:C7:32:LYS:HB3	2.18	0.43
23:D1:28:ASP:C	23:D1:30:ALA:H	2.26	0.43
24:D2:18:GLU:CD	24:D2:69:LEU:HB3	2.43	0.43
30:D8:40:ILE:HG22	30:D8:41:VAL:H	1.83	0.43
35:SM:24:GLU:HG2	48:M1:47:GLN:OE1	2.19	0.43
36:1:300:G:O6	85:1:4004:OHX:N2	2.51	0.43
36:1:650:C:O5'	36:1:650:C:H6	2.01	0.43
36:1:999:G:N3	36:1:1002:A:N6	2.67	0.43
36:1:1623:G:OP2	85:1:3901:OHX:N1	2.52	0.43
36:1:2227:C:OP1	78:Q2:32:LYS:NZ	2.51	0.43
36:1:2265:C:H2'	36:1:2266:U:H6	1.84	0.43
36:1:2875:U:P	87:1:3401:ANM:H11	2.58	0.43
36:1:3047:U:O2'	36:1:3048:A:H5'	2.19	0.43
85:1:3880:OHX:N6	85:1:3916:OHX:N5	2.66	0.43
40:L3:299:ASP:O	40:L3:301:THR:N	2.50	0.43
44:L7:132:PRO:HA	44:L7:229:PHE:CG	2.53	0.43
45:L8:101:THR:HG22	45:L8:104:GLU:CB	2.48	0.43
46:L9:31:ARG:HG2	46:L9:149:ASN:ND2	2.33	0.43
47:M0:63:GLU:O	47:M0:65:LEU:N	2.52	0.43
49:M3:17:HIS:HB3	49:M3:20:GLU:HG3	1.99	0.43
49:M3:190:LYS:HE2	49:M3:190:LYS:HB2	1.75	0.43
53:M7:48:LEU:O	53:M7:52:LEU:HD22	2.19	0.43
56:N0:71:LYS:O	56:N0:73:LYS:NZ	2.48	0.43
57:N1:103:GLN:NE2	57:N1:107:GLU:OE2	2.51	0.43
69:O3:52:VAL:HG13	69:O3:66:VAL:HG22	1.99	0.43
1:6:301:A:H4'	10:s8:27:PHE:CD2	2.54	0.43
1:6:393:C:OP2	10:s8:2:GLY:N	2.51	0.43
1:6:602:U:H2'	1:6:603:U:C6	2.54	0.43
1:6:868:G:C2	1:6:869:A:C8	3.07	0.43
1:6:1270:G:O2'	33:e1:79:LYS:HB2	2.19	0.43
1:6:1332:C:H4'	5:s3:203:PRO:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1482:C:OP2	1:6:1521:G:N2	2.52	0.43
4:s2:144:TRP:C	24:d2:98:GLN:HE22	2.27	0.43
7:s5:100:ASN:O	7:s5:102:ARG:N	2.50	0.43
29:d7:67:THR:OG1	29:d7:70:LYS:O	2.36	0.43
36:5:94:G:H2'	36:5:95:A:C8	2.54	0.43
36:5:269:G:P	51:m5:44:ARG:HH12	2.41	0.43
36:5:567:G:H2'	36:5:568:G:C8	2.54	0.43
36:5:1677:G:N7	58:n2:74:LYS:HE3	2.33	0.43
36:5:2553:U:O4'	66:o0:50:VAL:HB	2.18	0.43
36:5:3046:A:H2'	36:5:3047:U:O4'	2.18	0.43
36:5:3178:A:C2	52:m6:115:LYS:HD3	2.53	0.43
36:5:3257:C:H2'	36:5:3258:U:O4'	2.17	0.43
36:5:3324:C:OP1	67:o1:19:ARG:NH1	2.49	0.43
85:5:3986:OHX:N2	85:5:4042:OHX:N6	2.66	0.43
38:8:73:U:H2'	38:8:74:U:O4'	2.19	0.43
40:l3:146:ARG:HA	40:l3:146:ARG:NE	2.34	0.43
40:l3:347:SER:HB3	40:l3:350:ALA:H	1.82	0.43
42:l5:59:ASP:OD1	42:l5:81:HIS:ND1	2.48	0.43
43:l6:56:LYS:HG2	43:l6:58:LEU:HD23	1.99	0.43
45:l8:78:PHE:C	45:l8:80:TYR:N	2.76	0.43
45:l8:156:ASP:OD2	45:l8:156:ASP:N	2.48	0.43
48:m1:24:GLY:HA2	48:m1:65:ILE:HG23	2.00	0.43
54:m8:94:PHE:CZ	64:n8:119:PRO:HD3	2.53	0.43
59:n3:54:LEU:HD21	59:n3:119:GLY:HA3	2.00	0.43
71:o5:52:ALA:O	71:o5:56:THR:OG1	2.35	0.43
71:o5:59:ASN:O	71:o5:63:ARG:HG2	2.19	0.43
1:2:58:U:OP1	1:2:456:A:O2'	2.27	0.43
1:2:602:U:H2'	1:2:603:U:C6	2.53	0.43
1:2:768:C:H3'	1:2:769:A:C8	2.53	0.43
1:2:1068:C:H2'	1:2:1069:A:C8	2.54	0.43
1:2:1078:C:H2'	1:2:1079:U:C6	2.54	0.43
1:2:1424:A:H2'	1:2:1425:A:O4'	2.18	0.43
1:2:1528:U:H2'	1:2:1529:C:C6	2.52	0.43
1:2:1586:A:H1'	1:2:1611:A:N6	2.34	0.43
1:2:1645:G:H22	1:2:1756[A]:A:H2	1.66	0.43
3:S1:128:LYS:HE3	3:S1:132:ASP:OD1	2.18	0.43
3:S1:145:LYS:HG2	3:S1:154:SER:HB3	2.01	0.43
13:C1:150:UNK:C	13:C1:152:UNK:N	2.81	0.43
14:C2:136:ILE:HA	14:C2:139:HIS:HB3	2.01	0.43
17:C5:85:ILE:HG22	17:C5:112:LEU:HD23	2.01	0.43
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:47:GLN:O	22:D0:47:GLN:HG2	2.18	0.43
23:D1:74:GLN:HE22	23:D1:81:ASN:C	2.21	0.43
24:D2:66:ASN:HB2	24:D2:67:GLY:H	1.56	0.43
31:D9:8:PHE:O	31:D9:9:SER:OG	2.30	0.43
36:1:428:A:H2'	36:1:429:U:C6	2.53	0.43
36:1:551:A:C2	36:1:552:G:C4	3.07	0.43
36:1:604:G:C2	36:1:605:U:C2	3.06	0.43
36:1:692:A:C4	36:1:693:A:C8	3.07	0.43
36:1:787:G:H2'	36:1:788:C:C6	2.53	0.43
36:1:1544:G:O6	85:1:3916:OHX:N4	2.52	0.43
36:1:1581:C:H2'	36:1:1582:C:H5'	2.00	0.43
36:1:1680:G:H2'	36:1:1681:U:H6	1.84	0.43
36:1:1706:C:H2'	36:1:1707:A:O4'	2.18	0.43
36:1:1716:U:O2'	36:1:1717:U:O5'	2.35	0.43
36:1:2254:U:H2'	36:1:2261:G:N2	2.33	0.43
36:1:2995:A:H1'	38:4:1:A:N6	2.33	0.43
36:1:3274:A:H2'	53:M7:171:ARG:NH1	2.32	0.43
39:L2:73:GLU:O	39:L2:73:GLU:HG3	2.18	0.43
40:L3:41:VAL:HG22	40:L3:185:GLY:HA3	2.00	0.43
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.44	0.43
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.99	0.43
45:L8:97:TYR:OH	45:L8:204:ARG:N	2.48	0.43
58:N2:49:ASN:C	58:N2:51:GLY:H	2.26	0.43
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.34	0.43
71:O5:50:SER:O	71:O5:54:VAL:HG23	2.18	0.43
1:6:655:G:H2'	1:6:656:G:H8	1.83	0.43
1:6:1382:A:O2'	1:6:1383:G:H5''	2.19	0.43
1:6:1650:U:H2'	1:6:1651:A:C8	2.53	0.43
1:6:1754:A:H4'	1:6:1755:A:O5'	2.16	0.43
85:6:2087:OHX:N5	85:6:2112:OHX:N3	2.67	0.43
4:s2:149:GLY:N	23:d1:4:ASP:HB2	2.34	0.43
5:s3:43:PRO:O	5:s3:44:THR:HG22	2.18	0.43
6:s4:211:LYS:HE3	6:s4:211:LYS:HB2	1.82	0.43
9:s7:78:THR:O	9:s7:82:GLU:N	2.47	0.43
18:c6:99:GLU:N	34:sR:58:VAL:O	2.48	0.43
20:c8:54:LEU:O	20:c8:56:LYS:N	2.46	0.43
22:d0:36:ASN:HA	22:d0:39:SER:HB3	2.00	0.43
22:d0:99:ILE:H	22:d0:99:ILE:HG12	1.50	0.43
24:d2:18:GLU:HG3	24:d2:69:LEU:HD23	2.01	0.43
24:d2:28:ARG:HA	24:d2:29:PRO:HA	1.83	0.43
27:d5:57:TYR:CZ	27:d5:68:ARG:HD3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:274:LEU:O	34:sR:276:PRO:HD3	2.18	0.43
36:5:112:U:O2'	36:5:113:C:OP2	2.30	0.43
36:5:541:U:H2'	36:5:542:G:H8	1.79	0.43
36:5:825:U:OP1	39:l2:21:ARG:NH1	2.51	0.43
36:5:2101:C:H2'	36:5:2102:U:H6	1.82	0.43
36:5:2192:C:H2'	36:5:2193:U:O4'	2.18	0.43
36:5:3089:C:H2'	36:5:3090:U:O4'	2.18	0.43
36:5:3299:A:N6	36:5:3315:G:H1	2.14	0.43
36:5:3383:G:H2'	36:5:3384:U:C6	2.54	0.43
85:5:4025:OHX:N3	85:5:4027:OHX:N6	2.66	0.43
39:l2:20:THR:HG22	39:l2:23:ARG:CZ	2.49	0.43
40:l3:209:PHE:HE1	40:l3:340:LYS:HG2	1.84	0.43
41:l4:258:LEU:HD12	41:l4:258:LEU:HA	1.87	0.43
42:l5:233:ALA:C	42:l5:235:SER:H	2.27	0.43
46:l9:19:SER:HA	50:m4:6:ILE:O	2.17	0.43
49:m3:16:LYS:O	49:m3:17:HIS:HB2	2.18	0.43
56:n0:155:ARG:HH21	56:n0:172:TYR:N	2.16	0.43
60:n4:2:LYS:HG2	60:n4:3:VAL:H	1.83	0.43
60:n4:41:LYS:HB2	60:n4:41:LYS:HE3	1.68	0.43
68:o2:4:LEU:HD12	68:o2:5:PRO:HD2	2.00	0.43
71:o5:68:GLN:C	71:o5:70:TYR:H	2.25	0.43
71:o5:83:LYS:O	71:o5:85:THR:N	2.51	0.43
1:2:216:U:H5''	1:2:830:U:H4'	1.99	0.43
1:2:452:A:H3'	1:2:453:U:H6	1.83	0.43
1:2:1174:C:H2'	1:2:1175:U:O4'	2.18	0.43
1:2:1410:A:H5''	18:C6:118:ILE:HD11	2.00	0.43
1:2:1460:A:O2'	35:SM:72:ARG:NH2	2.52	0.43
1:2:1752:U:OP2	85:2:2017:OHX:N2	2.51	0.43
1:2:1769:U:OP2	85:2:2102:OHX:N1	2.52	0.43
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.99	0.43
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.18	0.43
4:S2:238:SER:HA	4:S2:239:PRO:HD3	1.90	0.43
9:S7:61:PHE:HA	9:S7:93:LEU:O	2.18	0.43
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	2.01	0.43
15:C3:116:ILE:O	15:C3:120:SER:OG	2.36	0.43
34:SR:36:ALA:HB2	34:SR:71:CYS:HB3	2.01	0.43
34:SR:171:SER:OG	34:SR:179:LYS:HB2	2.19	0.43
36:1:503:C:OP1	43:L6:26:ARG:NH1	2.50	0.43
36:1:543:C:H3'	36:1:544:C:C6	2.53	0.43
36:1:1433:A:O4'	68:O2:27:ARG:HD2	2.19	0.43
36:1:1596:C:O2'	36:1:1696:A:N3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1807:G:C6	36:1:1808:G:N1	2.87	0.43
36:1:2338:C:H4'	59:N3:47:ASN:O	2.18	0.43
39:L2:149:ARG:HH12	39:L2:155:LYS:HD3	1.82	0.43
41:L4:184:SER:CB	41:L4:202:ARG:HG2	2.49	0.43
43:L6:5:LYS:HA	43:L6:5:LYS:HE3	1.99	0.43
44:L7:51:TYR:O	44:L7:54:GLU:HG2	2.19	0.43
44:L7:156:ILE:O	44:L7:159:GLN:HB2	2.18	0.43
45:L8:165:PHE:O	45:L8:169:LEU:HB2	2.18	0.43
46:L9:94:TYR:HB3	46:L9:99:ILE:HG13	2.00	0.43
48:M1:9:MET:O	48:M1:9:MET:HG3	2.18	0.43
48:M1:54:VAL:HG11	48:M1:57:PHE:CG	2.53	0.43
48:M1:173:ASP:HB3	48:M1:174:LYS:H	1.65	0.43
55:M9:23:TRP:O	55:M9:50:ILE:HA	2.19	0.43
56:N0:38:LYS:HB2	56:N0:38:LYS:HE3	1.71	0.43
61:N5:47:ALA:HB3	71:O5:77:PRO:HG3	2.00	0.43
63:N7:10:VAL:HG22	63:N7:24:VAL:HG13	1.99	0.43
64:N8:93:SER:O	64:N8:93:SER:OG	2.33	0.43
79:Q3:26:VAL:HG13	79:Q3:30:GLU:HG3	2.00	0.43
1:6:100:A:C6	1:6:101:U:C4	3.06	0.43
1:6:1092:A:O2'	1:6:1093:A:H3'	2.18	0.43
1:6:1146:G:C6	1:6:1147:A:C6	3.07	0.43
1:6:1333:C:C4'	5:s3:162:GLN:HG3	2.48	0.43
7:s5:91:GLU:HG2	7:s5:95:ASN:ND2	2.33	0.43
15:c3:102:LEU:HD23	15:c3:102:LEU:HA	1.80	0.43
17:c5:33:PHE:CZ	17:c5:112:LEU:HD22	2.54	0.43
17:c5:107:ILE:H	17:c5:107:ILE:HG12	1.63	0.43
18:c6:50:GLU:OE1	18:c6:112:TYR:OH	2.32	0.43
20:c8:11:PHE:CZ	20:c8:59:GLY:HA3	2.54	0.43
22:d0:104:THR:HG22	22:d0:116:VAL:HG11	2.00	0.43
25:d3:22:ASN:C	25:d3:24:TRP:H	2.26	0.43
36:5:304:G:N3	36:5:304:G:H5'	2.34	0.43
36:5:699:A:OP1	49:m3:68:LYS:HE2	2.18	0.43
36:5:2836:C:H5	36:5:2852:C:N4	2.00	0.43
36:5:3185:U:O2'	56:n0:170:THR:OG1	2.31	0.43
85:5:3934:OHX:N6	85:5:4038:OHX:N2	2.67	0.43
37:7:76:A:N3	56:n0:50:LYS:NZ	2.52	0.43
41:l4:191:LYS:HG3	41:l4:194:TYR:OH	2.18	0.43
41:l4:286:VAL:O	41:l4:288:ARG:N	2.52	0.43
42:l5:40:HIS:HE1	42:l5:42:ALA:HB3	1.82	0.43
45:l8:143:ILE:HD11	45:l8:151:VAL:HG11	2.01	0.43
47:m0:12:GLN:OE1	47:m0:128:ARG:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:81:GLY:O	47:m0:83:ASP:N	2.52	0.43
47:m0:93:PRO:HA	47:m0:126:ALA:O	2.18	0.43
50:m4:72:LEU:HD11	50:m4:81:VAL:HG22	2.00	0.43
52:m6:27:LEU:HD22	52:m6:101:ARG:HB2	2.01	0.43
53:m7:132:ALA:O	53:m7:133:HIS:HB2	2.19	0.43
57:n1:117:ALA:O	57:n1:119:ALA:N	2.48	0.43
61:n5:87:SER:O	61:n5:120:LYS:HD2	2.18	0.43
64:n8:91:LEU:HD12	64:n8:91:LEU:HA	1.92	0.43
65:n9:14:ARG:HH12	65:n9:18:ARG:HH11	1.65	0.43
68:o2:61:LYS:NZ	68:o2:61:LYS:HB2	2.33	0.43
74:o8:65:LEU:HD23	74:o8:68:SER:HB2	2.01	0.43
1:2:68:A:H5'	8:S6:160:ARG:HH12	1.84	0.43
1:2:73:U:O2'	1:2:74:U:C4	2.70	0.43
1:2:323:A:OP2	10:S8:10:LYS:HG3	2.18	0.43
1:2:824:G:N2	1:2:849:C:O2	2.51	0.43
1:2:892:A:C6	1:2:893:U:C4	3.07	0.43
1:2:1145:U:O2'	4:S2:89:GLN:O	2.34	0.43
1:2:1163:A:N6	1:2:1164:G:C6	2.87	0.43
1:2:1208:A:N1	1:2:1455:G:N2	2.64	0.43
1:2:1370:U:H4'	1:2:1371:A:H5''	1.99	0.43
1:2:1397:U:H2'	1:2:1398:U:H5''	2.01	0.43
1:2:1565:C:OP1	20:C8:41:ARG:HG3	2.19	0.43
2:S0:88:LYS:HB3	2:S0:202:TYR:CE1	2.54	0.43
3:S1:113:MET:HB3	3:S1:142:PHE:CE2	2.52	0.43
4:S2:140:ARG:HA	23:D1:10:GLU:OE1	2.19	0.43
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.49	0.43
7:S5:163:SER:HB2	30:D8:48:VAL:HG23	2.01	0.43
9:S7:30:SER:O	9:S7:34:LEU:HB2	2.19	0.43
11:S9:9:SER:OG	11:S9:10:LYS:N	2.51	0.43
11:S9:105:LEU:C	11:S9:107:ARG:H	2.26	0.43
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.48	0.43
20:C8:28:ILE:O	20:C8:32:LEU:HG	2.18	0.43
28:D6:38:ARG:HH21	28:D6:83:ILE:HG21	1.82	0.43
33:E1:135:HIS:HB2	33:E1:138:ARG:CB	2.48	0.43
34:SR:7:LEU:HD11	34:SR:251:TRP:CZ3	2.53	0.43
35:SM:113:ASP:O	35:SM:116:GLU:HB2	2.19	0.43
36:1:22:G:H5''	73:O7:43:LYS:HG2	2.00	0.43
36:1:664:U:H2'	36:1:665:A:C8	2.53	0.43
36:1:760:G:H1'	36:1:770:G:N2	2.34	0.43
36:1:1113:G:H8	36:1:1113:G:O5'	2.01	0.43
36:1:1480:G:H4'	36:1:1481:A:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2302:G:H2'	36:1:2303:A:O4'	2.19	0.43
36:1:2540:A:O2'	36:1:2541:U:H5''	2.19	0.43
36:1:2656:A:C4	36:1:2658:G:N7	2.87	0.43
36:1:2737:C:H4'	57:N1:68:THR:OG1	2.19	0.43
36:1:2881:C:H2'	36:1:2882:U:H6	1.82	0.43
36:1:3351:U:O2'	36:1:3352:U:OP1	2.34	0.43
85:1:3880:OHX:N4	85:1:3916:OHX:N2	2.66	0.43
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.39	0.43
40:L3:45:SER:HB2	40:L3:181:ILE:HD13	2.01	0.43
40:L3:53:MET:HE2	40:L3:77:THR:HG23	2.01	0.43
41:L4:22:LEU:HD23	41:L4:22:LEU:HA	1.73	0.43
42:L5:58:LYS:HD2	42:L5:93:THR:HG21	2.01	0.43
44:L7:75:TYR:HB2	57:N1:141:VAL:HG22	2.00	0.43
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.54	0.43
46:L9:2:LYS:HA	46:L9:60:GLY:O	2.19	0.43
49:M3:54:LEU:HD12	49:M3:75:PHE:CZ	2.54	0.43
52:M6:102:LEU:HD12	52:M6:103:LYS:N	2.34	0.43
57:N1:57:TYR:OH	57:N1:87:LYS:HD3	2.18	0.43
59:N3:86:ARG:HG3	59:N3:92:PHE:CE2	2.53	0.43
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	1.79	0.43
64:N8:58:MET:HB2	64:N8:58:MET:HE3	1.83	0.43
67:O1:17:HIS:CG	67:O1:69:TYR:CD1	3.05	0.43
67:O1:36:ILE:HD12	67:O1:59:ILE:HD11	2.00	0.43
70:O4:8:ARG:HH21	70:O4:31:ARG:CD	2.31	0.43
74:O8:42:LYS:HE2	74:O8:55:VAL:HG22	2.00	0.43
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB3	2.58	0.43
78:Q2:100:LYS:HA	78:Q2:100:LYS:HE3	2.01	0.43
1:6:542:A:OP1	1:6:544:A:C5	2.72	0.43
1:6:747:C:C4	1:6:748:U:C4	3.07	0.43
1:6:773:C:OP1	6:s4:21:ASP:HB2	2.18	0.43
1:6:1065:A:H2'	1:6:1066:C:O4'	2.19	0.43
1:6:1171:A:H2'	1:6:1172:G:C8	2.53	0.43
1:6:1563:C:H2'	1:6:1564:U:C6	2.54	0.43
7:s5:94:THR:CG2	7:s5:114:ILE:HG13	2.41	0.43
7:s5:126:ASP:HB3	7:s5:127:GLN:H	1.66	0.43
10:s8:6:ASP:OD1	10:s8:8:ARG:HB2	2.18	0.43
16:c4:107:ARG:HH21	16:c4:107:ARG:HB2	1.83	0.43
20:c8:145:ARG:CG	35:sM:68:ARG:HH22	2.26	0.43
22:d0:96:PRO:HB2	22:d0:97:VAL:H	1.55	0.43
33:e1:90:LYS:H	33:e1:90:LYS:HG3	1.60	0.43
34:sR:38:ARG:HG2	34:sR:67:ILE:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:52:GLN:HG2	34:sR:53:LYS:H	1.84	0.43
34:sR:256:THR:HG21	34:sR:261:LYS:HD2	2.00	0.43
36:5:10:C:O2'	36:5:1558:A:N6	2.45	0.43
36:5:132:C:C2'	36:5:133:U:H5''	2.45	0.43
36:5:422:A:N1	36:5:2362:C:O2'	2.43	0.43
36:5:549:U:H2'	36:5:550:A:H8	1.84	0.43
36:5:1072:G:H2'	36:5:1073:U:C6	2.54	0.43
36:5:1329:U:O2'	36:5:1330:A:H5''	2.19	0.43
36:5:1581:C:OP2	36:5:1581:C:H4'	2.17	0.43
36:5:1715:A:H4'	36:5:1716:U:OP1	2.19	0.43
36:5:1790:G:O6	85:5:4032:OHX:N4	2.51	0.43
36:5:1817:G:HO2'	36:5:1818:U:H6	1.63	0.43
36:5:2413:A:H2'	36:5:2414:G:C8	2.52	0.43
36:5:3025:C:H2'	36:5:3026:G:O4'	2.19	0.43
36:5:3045:G:H2'	36:5:3046:A:O4'	2.19	0.43
85:5:3908:OHX:N6	85:5:3917:OHX:N5	2.66	0.43
85:5:4025:OHX:N5	85:5:4027:OHX:N6	2.66	0.43
42:l5:122:VAL:HG23	42:l5:123:GLU:N	2.34	0.43
48:m1:8:PRO:CG	48:m1:9:MET:H	2.31	0.43
80:m2:143:UNK:O	80:m2:145:UNK:N	2.51	0.43
49:m3:32:LYS:HA	49:m3:35:ARG:NH1	2.34	0.43
60:n4:93:ARG:HD3	60:n4:93:ARG:HA	1.83	0.43
61:n5:132:ALA:O	61:n5:136:ALA:N	2.49	0.43
71:o5:76:GLN:O	71:o5:81:ARG:NH1	2.49	0.43
1:2:25:C:O2'	1:2:366:A:O2'	2.33	0.43
1:2:25:C:O2	85:2:2043:OHX:N3	2.52	0.43
1:2:123:G:P	6:S4:77:ARG:HH22	2.42	0.43
1:2:239:C:H2'	1:2:240:U:H6	1.82	0.43
1:2:265:A:C2	1:2:267:U:C4	3.07	0.43
1:2:823:G:H5'	1:2:824:G:OP2	2.18	0.43
1:2:1147:A:O2'	1:2:1635:A:H2'	2.19	0.43
1:2:1178:G:H2'	1:2:1179:G:O4'	2.19	0.43
1:2:1353:U:H2'	1:2:1354:G:C8	2.53	0.43
1:2:1561:U:H2'	1:2:1562:G:H8	1.84	0.43
1:2:1695:G:H21	1:2:1706:C:N4	2.15	0.43
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.19	0.43
3:S1:119:THR:HB	3:S1:143:THR:CG2	2.48	0.43
4:S2:75:GLY:O	4:S2:77:GLN:NE2	2.51	0.43
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	1.64	0.43
7:S5:183:ALA:HB2	7:S5:193:THR:OG1	2.18	0.43
7:S5:211:ILE:HD13	7:S5:211:ILE:HA	1.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C0:74:GLU:O	12:C0:77:ARG:HB3	2.18	0.43
19:C7:41:ILE:HG22	19:C7:43:SER:H	1.84	0.43
20:C8:123:ARG:CG	20:C8:133:VAL:HG21	2.49	0.43
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.49	0.43
36:1:342:A:N1	36:1:349:A:O2'	2.50	0.43
36:1:1063:G:C6	36:1:1097:G:C5	3.07	0.43
36:1:1120:A:H2'	36:1:1121:U:C6	2.54	0.43
36:1:1702:U:H2'	36:1:1703:U:O4'	2.19	0.43
36:1:1903:U:O5'	36:1:1903:U:H6	2.00	0.43
36:1:2525:G:O2'	36:1:2526:C:OP2	2.23	0.43
36:1:3200:G:C5	36:1:3201:C:C5	3.07	0.43
37:3:80:G:OP2	85:3:219:OHX:N6	2.52	0.43
41:L4:115:HIS:CD2	41:L4:119:ARG:CZ	3.02	0.43
42:L5:148:ILE:HG22	42:L5:149:GLY:O	2.18	0.43
42:L5:279:LYS:HA	42:L5:282:ARG:HB2	1.99	0.43
46:L9:16:VAL:HA	46:L9:28:VAL:O	2.19	0.43
47:M0:210:ILE:HG23	47:M0:217:PHE:CD2	2.53	0.43
48:M1:162:TRP:CZ2	48:M1:166:LYS:HD2	2.54	0.43
51:M5:93:LYS:O	51:M5:94:TYR:HB3	2.19	0.43
52:M6:84:LEU:O	52:M6:87:MET:N	2.48	0.43
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.53	0.43
55:M9:171:ASP:OD1	55:M9:171:ASP:N	2.50	0.43
56:N0:7:TYR:CE1	56:N0:34:GLU:HG2	2.54	0.43
56:N0:28:ARG:HH11	56:N0:99:ARG:NE	2.17	0.43
61:N5:136:ALA:O	61:N5:139:ILE:HG23	2.19	0.43
62:N6:47:ALA:O	62:N6:122:LYS:NZ	2.51	0.43
1:6:621:A:N3	1:6:1107:G:H1'	2.33	0.43
1:6:1004:U:O4	85:5:3800:OHX:N2	2.52	0.43
1:6:1095:U:O2'	24:d2:16:ASN:OD1	2.29	0.43
1:6:1209:C:H42	1:6:1454:G:H1	1.67	0.43
1:6:1595:U:N3	1:6:1600:A:H2	2.09	0.43
3:s1:113:MET:HB3	3:s1:142:PHE:CE2	2.53	0.43
6:s4:120:SER:C	6:s4:164:LEU:HD12	2.44	0.43
7:s5:87:CYS:HA	7:s5:88:PRO:HD2	1.83	0.43
19:c7:71:PHE:CZ	19:c7:74:GLN:HB2	2.54	0.43
21:c9:141:GLU:C	21:c9:143:ASP:N	2.77	0.43
23:d1:38:LYS:HE3	23:d1:51:VAL:HG23	2.01	0.43
30:d8:42:ARG:CZ	30:d8:56:LEU:HD22	2.48	0.43
36:5:419:G:N2	38:8:5:U:C2	2.87	0.43
36:5:652:G:H8	85:5:4007:OHX:N6	2.17	0.43
36:5:1104:G:H2'	36:5:1105:A:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1282:G:H2'	36:5:1283:C:O4'	2.19	0.43
36:5:2947:G:OP2	36:5:2947:G:H4'	2.18	0.43
36:5:3288:G:O2'	36:5:3289:G:H8	2.02	0.43
37:7:80:G:H2'	37:7:81:U:O4'	2.19	0.43
37:7:91:G:H2'	37:7:92:A:C8	2.53	0.43
40:l3:226:PHE:CE1	40:l3:268:GLY:HA2	2.54	0.43
43:l6:65:ILE:O	43:l6:76:LEU:HA	2.18	0.43
45:l8:60:ARG:O	45:l8:64:ILE:HG13	2.18	0.43
51:m5:19:LEU:HD12	51:m5:19:LEU:HA	1.72	0.43
61:n5:103:TYR:O	61:n5:138:ARG:NH1	2.52	0.43
62:n6:38:GLU:O	62:n6:42:GLN:HG3	2.19	0.43
72:o6:79:SER:HB3	72:o6:82:ARG:HB2	2.00	0.43
1:2:867:G:C4	1:2:868:G:C8	3.07	0.43
1:2:1274:C:H41	35:SM:95:SER:HA	1.83	0.43
2:S0:139:VAL:O	2:S0:140:ASN:HB2	2.19	0.43
6:S4:126:VAL:HA	6:S4:141:THR:HA	2.00	0.43
11:S9:51:LYS:HB3	11:S9:54:ARG:HH11	1.83	0.43
11:S9:96:VAL:HA	11:S9:99:LEU:HD22	2.00	0.43
16:C4:75:GLY:O	16:C4:76:ILE:HD12	2.19	0.43
21:C9:23:GLN:HG2	21:C9:55:TYR:CD2	2.54	0.43
24:D2:28:ARG:HA	24:D2:29:PRO:HA	1.81	0.43
32:E0:40:TYR:C	32:E0:42:ARG:H	2.27	0.43
36:1:72:C:H5'	49:M3:63:VAL:HG22	2.01	0.43
36:1:279:U:H2'	36:1:280:U:H6	1.84	0.43
36:1:412:G:H1'	53:M7:120:ASN:HB3	2.01	0.43
36:1:439:C:H5'	36:1:440:A:P	2.59	0.43
36:1:716:A:N7	64:N8:116:GLY:HA2	2.34	0.43
36:1:824:C:OP1	39:L2:21:ARG:NE	2.52	0.43
36:1:1035:G:H2'	36:1:1036:A:H8	1.84	0.43
36:1:1560:G:H2'	36:1:1561:G:H5'	2.01	0.43
36:1:1767:C:H2'	36:1:1768:U:C6	2.54	0.43
36:1:2278:C:H2'	36:1:2279:A:H5''	2.01	0.43
36:1:2444:C:H42	36:1:2503:G:H21	1.66	0.43
36:1:2444:C:H42	36:1:2503:G:N2	2.17	0.43
36:1:2944:U:H1'	40:L3:251:CYS:SG	2.59	0.43
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.59	0.43
36:1:3155:U:H3'	36:1:3156:U:H4'	2.01	0.43
36:1:3181:C:H2'	36:1:3182:G:O4'	2.19	0.43
36:1:3268:A:OP1	43:L6:46:ARG:NH2	2.51	0.43
36:1:3312:U:H5''	40:L3:25:ILE:HD12	2.01	0.43
36:1:3313:U:C2'	36:1:3314:A:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3369:G:N2	40:L3:380:MET:O	2.51	0.43
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	2.00	0.43
43:L6:153:PRO:C	43:L6:155:LEU:H	2.26	0.43
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	2.00	0.43
44:L7:160:ARG:HG3	44:L7:203:TRP:CD2	2.54	0.43
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.86	0.43
50:M4:102:LYS:HE3	50:M4:102:LYS:HB2	1.85	0.43
68:O2:12:LYS:HD3	68:O2:57:TYR:HA	2.00	0.43
72:O6:26:ILE:H	72:O6:26:ILE:HG13	1.43	0.43
76:Q0:96:CYS:C	76:Q0:98:LYS:H	2.25	0.43
1:6:328:A:C2	1:6:329:G:C4	3.07	0.43
2:s0:10:THR:O	2:s0:10:THR:OG1	2.37	0.43
6:s4:191:ARG:HD3	6:s4:245:LYS:HB3	1.99	0.43
7:s5:92:ARG:HG2	7:s5:92:ARG:NH1	2.34	0.43
12:c0:15:LEU:HD23	12:c0:21:VAL:HG23	2.01	0.43
14:c2:25:GLU:C	14:c2:27:ALA:H	2.27	0.43
17:c5:87:PRO:HA	17:c5:90:ILE:HG13	2.01	0.43
18:c6:120:ASP:OD1	18:c6:122:ARG:HG3	2.18	0.43
20:c8:35:ILE:HB	20:c8:38:VAL:CG2	2.49	0.43
20:c8:91:ASP:HB3	20:c8:95:GLY:H	1.83	0.43
34:sR:6:VAL:HG12	34:sR:316:MET:O	2.19	0.43
34:sR:214:ALA:HB2	34:sR:220:ILE:HA	2.00	0.43
36:5:255:A:H2'	36:5:256:G:H8	1.84	0.43
36:5:312:C:H1'	36:5:2778:G:N2	2.34	0.43
36:5:701:G:H2'	36:5:702:C:C6	2.54	0.43
36:5:982:C:N3	36:5:1102:A:C2	2.86	0.43
36:5:1069:C:H2'	36:5:1070:U:H6	1.84	0.43
36:5:1836:C:O2'	36:5:1842:A:N1	2.47	0.43
36:5:2186:U:H2'	36:5:2187:G:O4'	2.19	0.43
36:5:2651:G:H4'	36:5:2652:U:OP2	2.18	0.43
36:5:2741:C:H4'	78:q2:19:LYS:HA	2.01	0.43
36:5:2932:U:OP1	59:n3:40:LYS:HG3	2.19	0.43
39:l2:28:LYS:HB3	39:l2:123:ARG:HB3	2.01	0.43
39:l2:248:GLY:O	39:l2:250:GLN:N	2.52	0.43
40:l3:18:PRO:HG2	40:l3:20:LYS:HD2	2.01	0.43
40:l3:347:SER:HB3	40:l3:350:ALA:N	2.34	0.43
40:l3:361:THR:HG22	40:l3:371:GLN:OE1	2.18	0.43
41:l4:58:HIS:O	41:l4:60:THR:N	2.44	0.43
41:l4:209:TYR:O	41:l4:230:VAL:HG22	2.19	0.43
41:l4:282:SER:HB3	54:m8:126:GLN:HE21	1.84	0.43
47:m0:66:GLU:O	47:m0:69:ARG:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:m1:65:ILE:HG22	48:m1:66:ALA:HB2	2.01	0.43
53:m7:95:LEU:HD23	53:m7:95:LEU:HA	1.90	0.43
53:m7:112:LEU:HA	53:m7:151:THR:O	2.19	0.43
56:n0:78:TRP:CE3	56:n0:125:LYS:HG2	2.54	0.43
63:n7:46:ILE:C	63:n7:46:ILE:HD12	2.44	0.43
67:o1:23:VAL:O	67:o1:28:ARG:NH1	2.51	0.43
79:q3:3:LYS:HD2	79:q3:5:THR:O	2.18	0.43
1:2:512:A:H5''	11:S9:163:PRO:HG3	2.00	0.42
1:2:889:U:H2'	1:2:890:C:O4'	2.18	0.42
1:2:1087:A:H2'	1:2:1088:A:C8	2.54	0.42
1:2:1133:A:N3	1:2:1650:U:O2'	2.47	0.42
1:2:1382:A:H5'	22:D0:59:PRO:HA	2.00	0.42
1:2:1500:C:H5'	21:C9:106:GLN:HE21	1.84	0.42
5:S3:132:LYS:HB3	5:S3:189:MET:HG3	2.00	0.42
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.34	0.42
7:S5:157:ARG:HB2	7:S5:224:ASN:OD1	2.18	0.42
11:S9:94:ASP:OD1	11:S9:94:ASP:N	2.51	0.42
11:S9:162:SER:OG	11:S9:163:PRO:O	2.37	0.42
13:C1:39:GLY:C	13:C1:41:GLY:H	2.26	0.42
13:C1:67:ARG:HD3	13:C1:67:ARG:N	2.34	0.42
20:C8:18:LEU:HD21	20:C8:70:VAL:HG13	2.01	0.42
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.49	0.42
35:SM:41:SER:C	35:SM:43:ASP:N	2.77	0.42
36:1:132:C:H2'	36:1:133:U:H5''	2.00	0.42
36:1:225:C:H2'	36:1:226:C:C6	2.54	0.42
36:1:655:C:H5''	68:O2:26:HIS:HB2	2.00	0.42
36:1:943:U:C2	36:1:1432:C:C5	3.07	0.42
36:1:987:U:C2	36:1:1098:A:C2	3.07	0.42
36:1:1071:U:O2'	36:1:1072:G:OP2	2.31	0.42
36:1:1944:U:H2'	36:1:1945:A:H8	1.84	0.42
36:1:3001:C:H2'	36:1:3002:C:C6	2.52	0.42
36:1:3218:A:H5''	36:1:3219:G:C5	2.54	0.42
37:3:7:G:H5''	42:L5:22:ARG:HD3	2.01	0.42
41:L4:299:ILE:HG23	54:M8:39:ARG:HB3	2.00	0.42
47:M0:48:LEU:O	47:M0:139:ARG:HA	2.18	0.42
48:M1:16:LYS:HG2	48:M1:130:VAL:CG1	2.49	0.42
52:M6:113:ASP:OD1	52:M6:114:LYS:HG2	2.19	0.42
53:M7:2:ALA:O	53:M7:3:ARG:HB2	2.18	0.42
53:M7:101:ASN:O	53:M7:105:LYS:HG3	2.18	0.42
59:N3:17:LEU:HD21	59:N3:98:ASN:CG	2.44	0.42
59:N3:26:ALA:O	59:N3:115:THR:N	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:8:ARG:NH2	70:O4:31:ARG:HD3	2.29	0.42
74:O8:70:PRO:HA	74:O8:71:PRO:HD2	1.96	0.42
1:6:4:C:OP1	4:s2:200:SER:OG	2.37	0.42
1:6:512:A:OP2	11:s9:172:VAL:HG13	2.19	0.42
1:6:719:U:C4	1:6:721:U:H5	2.37	0.42
1:6:1054:U:H2'	1:6:1055:U:O4'	2.18	0.42
1:6:1151:A:O3'	1:6:1766:A:N6	2.52	0.42
3:s1:143:THR:O	3:s1:208:GLN:HG2	2.19	0.42
7:s5:36:ALA:HB1	7:s5:42:LEU:HD12	2.01	0.42
9:s7:24:PHE:HD1	9:s7:38:LEU:HD11	1.84	0.42
9:s7:166:LEU:HD12	9:s7:166:LEU:HA	1.90	0.42
11:s9:129:ILE:HG12	11:s9:134:ILE:HG12	2.01	0.42
18:c6:129:PHE:CE1	22:d0:78:THR:HA	2.54	0.42
20:c8:36:LYS:HB3	20:c8:105:VAL:CG2	2.49	0.42
22:d0:38:SER:O	22:d0:42:VAL:HG23	2.19	0.42
22:d0:42:VAL:HG22	22:d0:91:ILE:HD13	2.01	0.42
24:d2:31:SER:HB3	24:d2:34:ILE:HG13	2.01	0.42
25:d3:117:ILE:HA	25:d3:118:PRO:HD3	1.86	0.42
34:sR:129:LYS:HG2	34:sR:149:ASP:O	2.19	0.42
36:5:76:G:OP1	49:m3:70:ARG:NH1	2.52	0.42
36:5:247:C:N3	36:5:248:U:H1'	2.33	0.42
36:5:394:G:N2	36:5:396:A:H3'	2.34	0.42
36:5:662:U:H2'	36:5:663:C:C6	2.54	0.42
36:5:727:G:OP2	36:5:742:G:N2	2.52	0.42
36:5:1229:G:O2'	81:p0:32:ASN:HA	2.19	0.42
36:5:1560:G:HO2'	36:5:1561:G:P	2.41	0.42
36:5:1563:C:H2'	36:5:1564:U:O4'	2.19	0.42
36:5:1613:A:O5'	74:o8:2:ALA:HB2	2.19	0.42
36:5:1719:G:H2'	36:5:1720:U:O4'	2.19	0.42
36:5:1741:A:C6	36:5:1742:U:C2	3.06	0.42
36:5:2646:C:H5''	47:m0:119:TRP:CG	2.54	0.42
36:5:2726:C:O2'	36:5:2727:A:H2'	2.19	0.42
36:5:3306:U:H2'	36:5:3307:A:H5''	2.00	0.42
37:7:79:A:N6	37:7:101:G:O2'	2.47	0.42
37:7:121:U:H5'	42:l5:260:PHE:HE2	1.83	0.42
38:8:83:C:H4'	38:8:85:G:H21	1.83	0.42
40:l3:56:ILE:HD11	40:l3:359:ILE:HG12	2.01	0.42
40:l3:296:THR:HG22	40:l3:297:SER:N	2.34	0.42
42:l5:88:ILE:HD12	42:l5:240:TYR:CD1	2.54	0.42
44:l7:111:ILE:O	44:l7:112:ASN:HB2	2.19	0.42
45:l8:73:PRO:C	45:l8:75:ILE:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:m4:62:GLN:H	50:m4:62:GLN:HG2	1.68	0.42
51:m5:65:ARG:HG2	51:m5:127:TYR:CD1	2.54	0.42
69:o3:16:TYR:CG	69:o3:25:PRO:HA	2.54	0.42
69:o3:45:LEU:HA	69:o3:71:VAL:HG12	2.00	0.42
71:o5:63:ARG:O	71:o5:67:ARG:HB2	2.19	0.42
72:o6:98:ARG:HB3	72:o6:99:ARG:H	1.56	0.42
1:2:1060:U:H2'	1:2:1061:A:O4'	2.19	0.42
1:2:1535:U:H5	7:S5:185:ARG:C	2.27	0.42
1:2:1665:U:O4	85:2:2095:OHX:N3	2.52	0.42
3:S1:112:SER:OG	3:S1:113:MET:N	2.52	0.42
6:S4:71:LYS:HA	6:S4:76:VAL:O	2.20	0.42
6:S4:206:ASP:N	6:S4:206:ASP:OD1	2.52	0.42
13:C1:73:GLY:HA3	13:C1:86:ILE:HD12	2.00	0.42
14:C2:29:LYS:O	14:C2:33:ARG:HB2	2.19	0.42
21:C9:6:VAL:HG22	21:C9:66:TYR:HE1	1.83	0.42
22:D0:46:GLU:HB2	22:D0:52:LYS:NZ	2.34	0.42
32:E0:39:LEU:HD12	32:E0:43:ARG:NH2	2.34	0.42
34:SR:224:ASN:ND2	34:SR:231:MET:HE3	2.33	0.42
36:1:587:U:H2'	36:1:588:G:H5'	2.01	0.42
36:1:1507:G:N7	53:M7:129:THR:HG22	2.35	0.42
36:1:2185:G:O2'	36:1:2314:U:OP2	2.28	0.42
36:1:2998:U:O4	85:1:3971:OHX:N1	2.52	0.42
36:1:3021:A:C8	36:1:3023:U:C2	3.06	0.42
36:1:3061:G:N1	36:1:3083:G:C6	2.86	0.42
36:1:3183:A:H2'	36:1:3184:A:H8	1.84	0.42
39:L2:202:VAL:HG23	39:L2:211:HIS:HB3	2.02	0.42
41:L4:130:ALA:O	41:L4:131:VAL:C	2.62	0.42
43:L6:106:PHE:HD1	43:L6:134:ARG:HH12	1.67	0.42
45:L8:75:ILE:C	45:L8:77:GLN:N	2.76	0.42
46:L9:67:ALA:HA	46:L9:70:THR:HG23	2.01	0.42
46:L9:112:ILE:HD11	46:L9:134:ILE:HD13	2.01	0.42
49:M3:64:LYS:HG3	64:N8:69:TRP:CD2	2.53	0.42
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	2.01	0.42
57:N1:26:HIS:CE1	57:N1:28:SER:OG	2.72	0.42
57:N1:84:TYR:O	57:N1:85:LEU:HD23	2.18	0.42
79:Q3:8:VAL:O	79:Q3:11:THR:HB	2.19	0.42
1:6:1014:G:H2'	1:6:1015:U:O4'	2.19	0.42
1:6:1138:A:C4	1:6:1139:A:C8	3.07	0.42
1:6:1477:G:O2'	21:c9:47:PRO:HA	2.18	0.42
8:s6:178:LEU:HD12	8:s6:178:LEU:HA	1.83	0.42
11:s9:54:ARG:HE	11:s9:54:ARG:HB3	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:53:LEU:HD12	29:d7:52:THR:HG21	2.01	0.42
18:c6:102:LYS:HB3	18:c6:102:LYS:HE2	1.86	0.42
20:c8:28:ILE:H	20:c8:28:ILE:HG13	1.45	0.42
20:c8:46:VAL:HG11	20:c8:73:MET:HE3	2.01	0.42
26:d4:13:ILE:HD13	26:d4:13:ILE:HA	1.91	0.42
36:5:973:A:P	54:m8:12:ARG:HH12	2.41	0.42
36:5:990:U:H4'	57:n1:100:LYS:HB3	2.01	0.42
36:5:1338:C:H2'	36:5:1339:C:H6	1.84	0.42
36:5:2590:A:C6	36:5:2591:A:C5	3.07	0.42
36:5:2656:A:C4	36:5:2658:G:N7	2.88	0.42
85:5:3934:OHX:N3	85:5:4038:OHX:N1	2.67	0.42
37:7:62:U:H5''	42:l5:277:LEU:HD12	2.01	0.42
39:l2:117:GLU:HG2	39:l2:124:GLY:H	1.84	0.42
42:l5:270:LYS:HG3	42:l5:273:ARG:CB	2.49	0.42
42:l5:270:LYS:O	42:l5:273:ARG:HB3	2.18	0.42
45:l8:73:PRO:HD3	45:l8:233:TRP:CG	2.54	0.42
45:l8:162:LEU:HA	51:m5:7:LEU:HD11	2.02	0.42
46:l9:106:LYS:HD2	46:l9:106:LYS:HA	1.74	0.42
47:m0:168:SER:OG	47:m0:170:LYS:HB2	2.19	0.42
53:m7:32:THR:O	53:m7:35:ALA:HB3	2.19	0.42
59:n3:67:PRO:C	59:n3:69:LEU:H	2.27	0.42
59:n3:80:ARG:HD3	59:n3:117:PRO:O	2.18	0.42
60:n4:91:LYS:O	60:n4:95:SER:HB2	2.19	0.42
65:n9:36:ASP:HA	65:n9:37:PRO:HD3	1.87	0.42
66:o0:13:LYS:HB3	66:o0:100:ILE:CG2	2.48	0.42
67:o1:84:ASP:O	67:o1:86:LYS:N	2.52	0.42
1:2:412:A:H2'	1:2:413:U:H6	1.84	0.42
1:2:583:C:H2'	1:2:584:C:C6	2.54	0.42
1:2:833:U:OP2	85:2:2099:OHX:N4	2.52	0.42
1:2:874:C:OP1	85:2:1993:OHX:N2	2.52	0.42
1:2:1017:U:H2'	1:2:1018:U:C6	2.54	0.42
1:2:1244:A:H3'	1:2:1244:A:N3	2.34	0.42
1:2:1346:A:N3	1:2:1346:A:H2'	2.34	0.42
1:2:1610:G:O3'	7:S5:98:MET:HE1	2.19	0.42
4:S2:180:ALA:HB2	4:S2:198:THR:HG21	2.00	0.42
8:S6:19:ASP:N	8:S6:19:ASP:OD1	2.52	0.42
8:S6:126:ASP:OD2	8:S6:127:THR:HG22	2.19	0.42
9:S7:78:THR:HA	9:S7:81:LEU:HB2	2.01	0.42
12:C0:46:LEU:HD13	12:C0:46:LEU:HA	1.84	0.42
21:C9:30:VAL:HA	21:C9:54:PHE:CE2	2.55	0.42
21:C9:66:TYR:HA	21:C9:124:ILE:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:2:PRO:HB2	28:D6:3:LYS:H	1.69	0.42
29:D7:75:GLU:HB3	29:D7:76:GLY:H	1.58	0.42
35:SM:89:ARG:C	35:SM:91:THR:H	2.27	0.42
36:1:26:A:C4	36:1:330:G:C8	3.07	0.42
36:1:54:C:O2'	36:1:1547:G:H1'	2.20	0.42
36:1:126:U:OP1	51:M5:144:ARG:NH1	2.52	0.42
36:1:592:A:C5	36:1:593:C:C5	3.08	0.42
36:1:851:C:H2'	36:1:852:U:H6	1.84	0.42
36:1:1712:G:O6	66:O0:28:LYS:NZ	2.51	0.42
36:1:1826:C:OP1	74:O8:48:SER:OG	2.37	0.42
36:1:2213:A:N1	36:1:2429:G:H1'	2.34	0.42
36:1:2282:U:O2	36:1:2310:U:H4'	2.19	0.42
36:1:2315:G:OP2	85:1:3862:OHX:N3	2.53	0.42
36:1:2421:U:H2'	36:1:2422:C:O4'	2.18	0.42
36:1:2569:A:H8	36:1:2569:A:OP2	2.02	0.42
36:1:2694:A:C6	36:1:2695:A:C6	3.07	0.42
36:1:3024:A:C6	36:1:3032:A:C8	3.08	0.42
36:1:3049:A:H5'	36:1:3049:A:H8	1.84	0.42
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.42	0.42
41:L4:209:TYR:HD2	41:L4:211:GLU:N	2.17	0.42
43:L6:173:MET:HB3	43:L6:173:MET:HE3	1.68	0.42
46:L9:12:VAL:HG13	46:L9:16:VAL:HG23	2.01	0.42
46:L9:109:ALA:O	46:L9:110:LYS:HB2	2.19	0.42
55:M9:130:ASN:C	55:M9:132:PHE:H	2.27	0.42
57:N1:25:VAL:HG23	57:N1:30:TYR:HE2	1.83	0.42
59:N3:79:VAL:HG23	59:N3:80:ARG:HG3	2.01	0.42
68:O2:81:ASP:O	68:O2:84:THR:HG23	2.19	0.42
70:O4:98:GLN:O	70:O4:102:LYS:HD3	2.19	0.42
1:6:706:A:H2'	1:6:707:A:O4'	2.19	0.42
1:6:1429:G:H2'	1:6:1430:U:H6	1.84	0.42
1:6:1429:G:C5	1:6:1430:U:C4	3.08	0.42
6:s4:192:ILE:HG22	6:s4:193:GLY:N	2.34	0.42
11:s9:130:THR:HA	11:s9:142:ASN:HB2	2.00	0.42
12:c0:31:LYS:H	12:c0:38:LYS:HA	1.84	0.42
13:c1:101:GLU:OE1	13:c1:103:ARG:NH2	2.46	0.42
13:c1:131:ILE:HG22	13:c1:132:SER:HB3	2.01	0.42
20:c8:14:ILE:HD11	20:c8:21:ASN:HB3	2.01	0.42
20:c8:52:VAL:HG21	20:c8:69:ILE:HD11	2.01	0.42
20:c8:119:ILE:HD12	20:c8:119:ILE:HA	1.76	0.42
20:c8:121:ALA:O	20:c8:125:ILE:HG13	2.19	0.42
34:sR:95:ALA:O	34:sR:96:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:sR:184:ASN:OD1	34:sR:185:GLN:N	2.51	0.42
36:5:92:G:H5'	36:5:93:C:H5''	2.01	0.42
36:5:383:G:N7	85:5:3912:OHX:N5	2.67	0.42
36:5:773:G:O6	85:5:3782:OHX:N3	2.52	0.42
36:5:836:A:O2'	79:q3:9:GLY:O	2.20	0.42
36:5:874:U:H5''	36:5:2950:G:OP1	2.20	0.42
36:5:1345:G:N2	36:5:1360:C:C2	2.88	0.42
36:5:1536:G:N2	36:5:1537:A:H1'	2.34	0.42
36:5:1549:U:H2'	36:5:1550:C:C6	2.55	0.42
36:5:2167:A:H2'	36:5:2168:A:C8	2.55	0.42
36:5:2712:U:HO2'	36:5:2743:A:HO2'	1.61	0.42
36:5:2765:C:OP1	64:n8:55:LYS:NZ	2.42	0.42
36:5:2765:C:H2'	36:5:2766:U:C6	2.54	0.42
36:5:2988:C:OP1	52:m6:65:ASN:ND2	2.25	0.42
36:5:3108:G:N3	46:l9:163:GLN:NE2	2.56	0.42
85:5:3844:OHX:N5	85:7:219:OHX:N6	2.67	0.42
38:8:41:A:H61	38:8:103:G:C2'	2.32	0.42
38:8:155:A:H2'	38:8:156:U:O4'	2.19	0.42
40:l3:146:ARG:HA	40:l3:146:ARG:CZ	2.49	0.42
41:l4:286:VAL:HG11	54:m8:31:LYS:HE2	2.01	0.42
41:l4:338:LYS:C	41:l4:340:GLY:H	2.27	0.42
44:l7:169:ILE:O	44:l7:173:LEU:N	2.37	0.42
45:l8:137:ASN:OD1	51:m5:3:ALA:N	2.43	0.42
47:m0:200:LEU:HD12	47:m0:213:PHE:HB2	2.00	0.42
48:m1:15:GLU:HB2	48:m1:132:ASN:CG	2.44	0.42
48:m1:109:HIS:HD2	48:m1:114:ILE:HG21	1.84	0.42
49:m3:24:VAL:O	49:m3:26:PHE:N	2.49	0.42
53:m7:147:GLU:O	53:m7:147:GLU:HG3	2.19	0.42
60:n4:134:GLN:HB3	60:n4:135:SER:H	1.62	0.42
62:n6:50:ILE:HD13	62:n6:51:ARG:N	2.35	0.42
63:n7:24:VAL:HG23	63:n7:44:ALA:O	2.20	0.42
65:n9:39:PHE:O	65:n9:43:HIS:HB2	2.18	0.42
67:o1:70:ARG:O	67:o1:71:LEU:HD23	2.19	0.42
69:o3:69:GLY:HA3	69:o3:85:PHE:HA	2.00	0.42
1:2:46:A:N1	1:2:432:G:O2'	2.49	0.42
1:2:616:G:N2	1:2:622:A:C8	2.87	0.42
1:2:792:U:H3'	1:2:793:A:C8	2.46	0.42
3:S1:124:ASN:OD1	3:S1:124:ASN:N	2.53	0.42
4:S2:81:MET:HB2	4:S2:101:VAL:O	2.18	0.42
6:S4:15:PRO:HG2	6:S4:18:TRP:CE2	2.53	0.42
6:S4:109:PHE:HD1	6:S4:109:PHE:HA	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:69:PHE:CE2	18:C6:53:LEU:HD12	2.54	0.42
8:S6:78:THR:O	8:S6:81:VAL:HG12	2.18	0.42
9:S7:154:LEU:HD11	9:S7:183:PHE:HB3	2.00	0.42
10:S8:184:LEU:HD12	10:S8:184:LEU:HA	1.75	0.42
11:S9:57:ARG:HG2	11:S9:97:LEU:HD21	2.01	0.42
15:C3:27:LYS:HB2	15:C3:28:LEU:H	1.43	0.42
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.77	0.42
25:D3:42:PRO:HG2	25:D3:122:PHE:HE2	1.84	0.42
26:D4:54:ALA:O	26:D4:75:VAL:HA	2.19	0.42
34:SR:245:PHE:CD1	34:SR:252:LEU:HD13	2.54	0.42
36:1:359:U:O2'	73:O7:16:HIS:ND1	2.52	0.42
36:1:543:C:N4	36:1:548:G:H1	2.17	0.42
36:1:716:A:O2'	64:N8:117:ARG:NH2	2.52	0.42
36:1:2201:G:OP2	85:1:3979:OHX:N1	2.52	0.42
36:1:2208:A:H2	85:1:3904:OHX:N6	2.17	0.42
36:1:2565:U:H2'	36:1:2566:C:H6	1.85	0.42
36:1:2746:A:H2	42:L5:146:LEU:HB3	1.84	0.42
36:1:2812:C:H2'	36:1:2813:A:H8	1.84	0.42
36:1:2883:U:H2'	36:1:2884:C:C6	2.55	0.42
36:1:3024:A:C2	36:1:3032:A:C4	3.07	0.42
36:1:3113:A:H2'	36:1:3114:A:O4'	2.20	0.42
37:3:97:A:H2'	37:3:98:C:H6	1.84	0.42
38:4:1:A:C2	38:4:2:A:C4	3.07	0.42
39:L2:220:GLY:O	39:L2:221:LYS:HG3	2.19	0.42
40:L3:139:GLN:H	40:L3:139:GLN:HG3	1.51	0.42
41:L4:291:ASN:O	41:L4:292:SER:C	2.62	0.42
42:L5:81:HIS:C	42:L5:81:HIS:ND1	2.77	0.42
47:M0:68:ALA:HA	47:M0:158:LYS:HG3	2.01	0.42
47:M0:77:THR:HG22	47:M0:85:PHE:HZ	1.84	0.42
51:M5:143:ARG:NH2	71:O5:92:LEU:HD23	2.34	0.42
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	2.01	0.42
57:N1:79:MET:HB3	57:N1:84:TYR:CD2	2.54	0.42
64:N8:6:THR:HG22	64:N8:9:ARG:HG2	2.00	0.42
64:N8:117:ARG:H	64:N8:117:ARG:HG2	1.48	0.42
68:O2:82:LEU:HD11	68:O2:112:ALA:HA	2.01	0.42
72:O6:53:TYR:HB2	72:O6:76:ARG:HG2	2.00	0.42
1:6:339:C:OP2	10:s8:10:LYS:HE3	2.19	0.42
1:6:485:A:C6	1:6:486:G:H1'	2.54	0.42
1:6:515:A:H2'	1:6:516:G:O4'	2.18	0.42
1:6:623:A:N6	1:6:970:A:OP1	2.45	0.42
1:6:1220:C:H5'	12:c0:52:LYS:HE3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1362:U:H1'	1:6:1363:U:C4	2.55	0.42
1:6:1388:A:OP1	19:c7:29:GLN:NE2	2.52	0.42
1:6:1591:C:H2'	1:6:1592:A:C8	2.54	0.42
1:6:1746:A:O2'	36:5:2290:C:O2'	2.36	0.42
2:s0:195:TRP:CE2	2:s0:197:ILE:HD13	2.54	0.42
5:s3:141:LYS:HZ1	5:s3:179:GLN:CD	2.28	0.42
5:s3:191:ASP:OD2	5:s3:193:ALA:HB3	2.20	0.42
10:s8:76:THR:HB	10:s8:77:ARG:H	1.61	0.42
13:c1:20:PHE:CZ	13:c1:22:ASN:HA	2.54	0.42
30:d8:16:LEU:HA	30:d8:16:LEU:HD23	1.81	0.42
34:sR:37:SER:HB3	34:sR:39:ASP:OD1	2.19	0.42
35:sM:32:SER:HB3	36:5:2666:C:O2'	2.20	0.42
36:5:104:G:O2'	36:5:698:U:O2	2.31	0.42
36:5:269:G:H5''	51:m5:14:LYS:HZ1	1.84	0.42
36:5:503:C:H2'	36:5:504:A:H8	1.83	0.42
36:5:686:G:C2	36:5:695:C:C2	3.08	0.42
36:5:777:U:H2'	36:5:778:U:O4'	2.18	0.42
36:5:874:U:P	40:l3:241:LYS:HE2	2.59	0.42
36:5:1222:G:O6	85:5:3966:OHX:N1	2.52	0.42
36:5:1475:A:H4'	67:o1:57:GLN:HG2	2.01	0.42
36:5:1659:U:H2'	36:5:1660:C:C6	2.55	0.42
36:5:1728:G:H4'	36:5:1729:A:H5''	2.01	0.42
36:5:1792:C:H5''	36:5:1793:C:P	2.59	0.42
36:5:2846:U:O2'	85:5:3895:OHX:N5	2.52	0.42
36:5:2895:G:C2'	36:5:2896:A:H5''	2.45	0.42
36:5:3180:A:C4	52:m6:114:LYS:HA	2.54	0.42
85:5:3986:OHX:N1	85:5:4042:OHX:N3	2.67	0.42
85:5:4025:OHX:N5	85:5:4027:OHX:N2	2.68	0.42
38:8:81:U:O2'	38:8:82:U:H5''	2.19	0.42
39:l2:21:ARG:HH21	39:l2:22:LEU:HD11	1.84	0.42
40:l3:106:TRP:HB2	40:l3:133:TYR:CE2	2.54	0.42
44:l7:80:GLN:OE1	57:n1:136:ARG:HB2	2.19	0.42
47:m0:76:MET:HE1	47:m0:148:VAL:HG22	2.01	0.42
48:m1:59:ILE:HG21	48:m1:65:ILE:HD11	2.01	0.42
54:m8:166:LEU:HD22	54:m8:166:LEU:HA	1.76	0.42
56:n0:138:GLN:C	56:n0:140:VAL:H	2.27	0.42
60:n4:32:GLN:OE1	60:n4:33:ASN:ND2	2.53	0.42
65:n9:7:HIS:CG	65:n9:8:THR:N	2.88	0.42
68:o2:35:GLN:NE2	68:o2:35:GLN:HA	2.34	0.42
1:2:18:C:H2'	1:2:19:A:H8	1.84	0.42
1:2:45:U:C2	1:2:436:A:N6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1291:G:H1	1:2:1324:G:H1	1.67	0.42
1:2:1402:G:H2'	1:2:1403:C:C6	2.55	0.42
1:2:1514:U:O2'	5:S3:5:ILE:O	2.28	0.42
2:S0:178:ALA:O	2:S0:181:VAL:HG22	2.18	0.42
6:S4:51:ARG:C	6:S4:53:LYS:HE2	2.45	0.42
7:S5:64:VAL:O	7:S5:65:ARG:HB2	2.20	0.42
7:S5:188:LYS:HA	27:D5:63:SER:HB3	2.02	0.42
8:S6:5:ILE:HD13	8:S6:50:PHE:CE1	2.54	0.42
8:S6:52:ILE:HA	8:S6:111:LEU:HD23	2.02	0.42
10:S8:36:THR:OG1	10:S8:96:LEU:HB2	2.19	0.42
22:D0:109:GLU:HA	22:D0:110:PRO:HD2	1.94	0.42
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.84	0.42
27:D5:54:VAL:N	27:D5:55:PRO:HD2	2.35	0.42
34:SR:134:TRP:CD1	34:SR:134:TRP:N	2.88	0.42
36:1:415:G:H2'	36:1:416:A:H8	1.83	0.42
36:1:1128:U:H2'	36:1:1129:A:O4'	2.20	0.42
36:1:1277:C:O2'	36:1:1278:A:H8	2.01	0.42
36:1:1481:A:H2'	36:1:1858:A:H1'	2.02	0.42
36:1:1517:G:H2'	36:1:1518:U:C6	2.55	0.42
36:1:1748:G:C6	36:1:1749:A:C6	3.08	0.42
36:1:2532:U:H3	36:1:2547:A:H61	1.67	0.42
36:1:2659:G:N7	85:1:3740:OHX:N5	2.67	0.42
36:1:2761:G:C4	36:1:2795:U:C5	3.07	0.42
37:3:36:C:O2	37:3:45:A:H1'	2.19	0.42
37:3:61:G:H2'	37:3:62:U:H6	1.83	0.42
39:L2:45:VAL:HG22	39:L2:84:THR:HA	2.02	0.42
40:L3:278:ILE:HG13	40:L3:279:ASN:HD22	1.83	0.42
40:L3:308:MET:C	40:L3:310:GLY:H	2.28	0.42
40:L3:370:PHE:HZ	40:L3:379:PHE:CD1	2.38	0.42
41:L4:59:GLN:OE1	73:O7:55:ARG:NH2	2.45	0.42
45:L8:214:LEU:HD12	45:L8:214:LEU:HA	1.86	0.42
47:M0:77:THR:HG22	47:M0:85:PHE:CZ	2.54	0.42
48:M1:80:LEU:HD22	48:M1:84:LEU:HG	2.02	0.42
51:M5:5:LYS:HE3	51:M5:8:GLU:OE2	2.18	0.42
51:M5:140:LYS:O	51:M5:144:ARG:HG3	2.20	0.42
53:M7:64:ASN:O	53:M7:67:ILE:HB	2.20	0.42
60:N4:24:GLY:C	60:N4:26:SER:H	2.26	0.42
72:O6:84:LYS:HZ2	72:O6:84:LYS:HG3	1.76	0.42
1:6:359:A:OP1	85:6:2140:OHX:N2	2.52	0.42
1:6:555:A:C8	1:6:555:A:H3'	2.54	0.42
1:6:1104:U:H2'	1:6:1105:C:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1725:U:H2'	1:6:1726:G:O4'	2.20	0.42
85:6:2116:OHX:N5	85:6:2152:OHX:N1	2.67	0.42
2:s0:185:ARG:HB3	2:s0:186:GLY:H	1.52	0.42
6:s4:104:ASP:HB3	6:s4:106:LYS:H	1.82	0.42
9:s7:74:GLN:NE2	9:s7:92:PHE:HD1	2.18	0.42
12:c0:52:LYS:HD3	12:c0:54:TYR:HE1	1.85	0.42
14:c2:97:LEU:HD11	14:c2:121:VAL:HG22	2.00	0.42
18:c6:52:LEU:HA	18:c6:60:PHE:CE1	2.54	0.42
20:c8:143:ARG:O	20:c8:144:ARG:HB2	2.19	0.42
21:c9:57:ARG:HG3	21:c9:57:ARG:NH1	2.34	0.42
25:d3:102:VAL:HG12	25:d3:127:VAL:HA	2.01	0.42
33:e1:98:VAL:O	33:e1:99:LYS:HG2	2.20	0.42
34:sR:36:ALA:HB1	34:sR:68:VAL:HB	1.99	0.42
36:5:26:A:C4	36:5:330:G:C8	3.07	0.42
36:5:44:U:H4'	78:q2:54:THR:HG22	2.00	0.42
36:5:183:G:C2	36:5:184:U:C2	3.07	0.42
36:5:352:A:H61	36:5:365:A:H5''	1.84	0.42
36:5:1011:A:H2'	36:5:1012:G:C8	2.54	0.42
36:5:1098:A:O5'	57:n1:129:LYS:HB3	2.20	0.42
36:5:1336:U:OP2	85:5:4036:OHX:N5	2.52	0.42
36:5:1599:G:OP1	85:5:3919:OHX:N3	2.53	0.42
36:5:1613:A:H2'	36:5:1614:C:C6	2.55	0.42
36:5:1804:A:H2'	36:5:1805:C:C6	2.54	0.42
36:5:2562:A:N6	36:5:2579:G:O2'	2.52	0.42
36:5:2653:C:H1'	36:5:2694:A:C2	2.54	0.42
37:7:46:A:C5	37:7:47:C:C5	3.07	0.42
40:l3:290:ASP:HB3	40:l3:293:ASN:OD1	2.19	0.42
45:l8:63:LYS:O	45:l8:67:ILE:HG12	2.18	0.42
45:l8:242:ALA:O	45:l8:245:LYS:HD3	2.20	0.42
46:l9:166:ARG:HD2	46:l9:168:ARG:HH11	1.83	0.42
51:m5:70:ASN:HB3	51:m5:92:LEU:O	2.20	0.42
53:m7:119:VAL:HA	53:m7:145:HIS:O	2.20	0.42
61:n5:132:ALA:HA	61:n5:135:ILE:HG22	2.01	0.42
62:n6:108:LYS:HD3	62:n6:108:LYS:HA	1.77	0.42
70:o4:74:ARG:HG2	70:o4:75:ALA:H	1.84	0.42
1:2:1203:A:C6	1:2:1556:A:C5	3.08	0.42
1:2:1226:A:O2'	1:2:1227:A:OP1	2.33	0.42
1:2:1375:A:C2	1:2:1376:C:C2	3.08	0.42
3:S1:29:TRP:HE1	3:S1:47:LEU:HG	1.85	0.42
3:S1:94:LYS:HE3	3:S1:94:LYS:HB3	1.92	0.42
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:109:LEU:HD11	11:S9:134:ILE:HD11	2.01	0.42
13:C1:124:THR:O	13:C1:140:VAL:HG12	2.19	0.42
14:C2:118:ALA:O	14:C2:120:VAL:N	2.52	0.42
16:C4:12:GLN:HB2	16:C4:78:ALA:HB2	2.00	0.42
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.56	0.42
20:C8:128:PHE:CD2	35:SM:61:ILE:HG22	2.55	0.42
24:D2:126:LEU:HD23	24:D2:126:LEU:HA	1.73	0.42
26:D4:63:GLN:HB3	26:D4:68:LYS:HB3	2.02	0.42
28:D6:84:VAL:HG22	28:D6:85:ARG:C	2.45	0.42
29:D7:11:THR:C	29:D7:13:ALA:H	2.28	0.42
30:D8:42:ARG:NH1	30:D8:56:LEU:HD22	2.34	0.42
33:E1:109:ASP:O	33:E1:111:GLU:N	2.51	0.42
36:1:980:A:H2'	36:1:981:U:C1'	2.50	0.42
36:1:1415:U:H2'	36:1:1416:C:O4'	2.20	0.42
36:1:1483:G:C8	36:1:1485:G:C8	3.07	0.42
36:1:2173:U:H2'	36:1:2174:G:N7	2.34	0.42
36:1:2239:G:N3	36:1:2239:G:H2'	2.34	0.42
36:1:2873:U:C2'	87:1:3401:ANM:H2	2.46	0.42
38:4:46:G:N2	38:4:58:G:C4	2.88	0.42
41:L4:111:VAL:HG12	41:L4:112:LYS:N	2.34	0.42
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.35	0.42
42:L5:259:LYS:HG2	42:L5:260:PHE:HD2	1.85	0.42
46:L9:4:ILE:CD1	56:N0:148:LEU:HD11	2.50	0.42
49:M3:190:LYS:C	49:M3:192:GLU:H	2.28	0.42
54:M8:42:ALA:HA	54:M8:43:PRO:HD3	1.88	0.42
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	2.20	0.42
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.44	0.42
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.83	0.42
65:N9:23:LYS:HE3	65:N9:24:PRO:HD3	2.01	0.42
71:O5:41:LEU:HD12	71:O5:43:LYS:HG3	2.01	0.42
79:Q3:59:CYS:C	79:Q3:61:LYS:H	2.27	0.42
1:6:588:U:OP2	32:e0:26:LYS:NZ	2.34	0.42
1:6:708:C:H2'	1:6:709:C:O4'	2.19	0.42
1:6:823:G:C5	1:6:850:A:C2	3.08	0.42
5:s3:164:VAL:O	5:s3:168:ILE:HG12	2.20	0.42
9:s7:130:VAL:HG11	9:s7:154:LEU:HD21	2.02	0.42
19:c7:50:ILE:O	19:c7:54:THR:HG23	2.19	0.42
21:c9:63:ARG:HG2	21:c9:67:MET:HE2	2.00	0.42
21:c9:134:ARG:O	21:c9:138:GLN:HG3	2.20	0.42
22:d0:29:THR:OG1	22:d0:30:LYS:HE3	2.20	0.42
34:sR:216:LYS:HA	34:sR:239:GLU:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:759:U:O4	36:5:760:G:C6	2.72	0.42
36:5:1085:A:OP1	57:n1:35:LYS:HD2	2.19	0.42
36:5:1404:G:N2	36:5:1407:A:OP2	2.45	0.42
36:5:1455:U:O2	67:o1:26:LYS:NZ	2.52	0.42
36:5:1833:G:OP1	75:o9:10:LYS:NZ	2.43	0.42
36:5:2718:U:C4	85:5:4062:OHX:N6	2.85	0.42
36:5:2772:C:H4'	36:5:2773:C:O5'	2.20	0.42
36:5:3186:A:H4'	36:5:3187:A:O5'	2.19	0.42
36:5:3215:A:C5'	50:m4:121:MET:HE1	2.50	0.42
38:8:131:A:H5''	61:n5:93:TYR:CE2	2.55	0.42
39:12:216:HIS:O	39:12:218:HIS:HD2	2.02	0.42
41:14:26:PHE:HA	41:14:127:ALA:HA	2.01	0.42
41:14:99:MET:CE	41:14:103:THR:H	2.32	0.42
41:14:262:TRP:O	41:14:276:LEU:HD11	2.20	0.42
42:15:106:ALA:O	42:15:110:LEU:HD22	2.19	0.42
42:15:110:LEU:O	42:15:116:ASP:HB3	2.19	0.42
45:18:143:ILE:HG23	45:18:175:VAL:HG21	2.02	0.42
46:19:96:HIS:O	46:19:98:PRO:HD3	2.20	0.42
49:m3:57:VAL:HG23	49:m3:115:ARG:HD2	2.02	0.42
53:m7:92:GLN:O	53:m7:95:LEU:N	2.53	0.42
56:n0:42:TRP:O	56:n0:46:GLN:HG3	2.19	0.42
57:n1:88:ARG:HH21	65:n9:33:LYS:HB3	1.85	0.42
62:n6:115:ARG:O	62:n6:119:ILE:HG13	2.20	0.42
64:n8:70:LYS:N	64:n8:71:PRO:HD3	2.35	0.42
68:o2:8:LYS:HB3	68:o2:8:LYS:HE2	1.74	0.42
70:o4:41:ARG:HE	70:o4:41:ARG:HB3	1.55	0.42
73:o7:45:ARG:HH11	73:o7:47:TYR:HE2	1.68	0.42
82:p1:29:UNK:C	82:p1:31:UNK:N	2.82	0.42
1:2:66:U:H5'	8:S6:173:PRO:HA	2.00	0.42
1:2:312:A:C2	1:2:314:C:H2'	2.54	0.42
1:2:512:A:OP2	11:S9:172:VAL:HG13	2.20	0.42
1:2:937:C:N4	28:D6:14:GLY:O	2.47	0.42
1:2:1365:C:N4	1:2:1366:U:O4	2.52	0.42
1:2:1594:G:N2	1:2:1603:U:O2	2.53	0.42
1:2:1760:G:C2'	1:2:1761:U:H5'	2.50	0.42
85:2:2054:OHX:N6	85:2:2068:OHX:N5	2.67	0.42
2:S0:31:VAL:HG12	2:S0:33:GLN:N	2.33	0.42
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	2.01	0.42
11:S9:133:HIS:O	11:S9:134:ILE:HG12	2.19	0.42
13:C1:4:GLU:O	13:C1:5:LEU:HB2	2.20	0.42
18:C6:49:TYR:O	18:C6:53:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:23:ARG:NH1	22:D0:92:ASP:OD2	2.52	0.42
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	2.01	0.42
22:D0:105:GLN:HG3	22:D0:106:ILE:N	2.33	0.42
26:D4:104:SER:HB3	26:D4:107:GLN:CD	2.45	0.42
32:E0:46:ASN:O	32:E0:47:VAL:HG12	2.20	0.42
33:E1:120:GLU:HA	33:E1:131:PHE:HA	2.02	0.42
34:SR:169:ILE:CG1	34:SR:181:TRP:HB2	2.47	0.42
34:SR:288:HIS:O	34:SR:306:THR:HG23	2.20	0.42
36:1:86:G:O2'	49:M3:11:LYS:HD3	2.20	0.42
36:1:304:G:N3	36:1:304:G:H2'	2.34	0.42
36:1:1073:U:H2'	36:1:1074:U:C6	2.55	0.42
36:1:1266:G:N2	36:1:1276:U:H1'	2.35	0.42
36:1:1295:G:C5	36:1:1296:C:C4	3.07	0.42
36:1:1517:G:OP1	75:O9:41:ARG:NH2	2.47	0.42
36:1:1770:G:H5'	36:1:1771:C:OP2	2.20	0.42
36:1:1817:G:OP1	85:1:3950:OHX:N1	2.53	0.42
36:1:2167:A:OP1	51:M5:72:LYS:NZ	2.52	0.42
36:1:2185:G:C6	36:1:2186:U:C4	3.08	0.42
36:1:2223:A:OP2	36:1:2223:A:H8	2.02	0.42
36:1:2366:C:H2'	36:1:2367:A:C8	2.54	0.42
36:1:2732:G:H2'	36:1:2733:A:O4'	2.20	0.42
36:1:3055:U:C2	36:1:3085:G:N1	2.88	0.42
36:1:3343:G:C6	36:1:3361:G:C6	3.07	0.42
85:1:3824:OHX:N3	85:1:3932:OHX:N4	2.68	0.42
41:L4:93:MET:HE2	41:L4:94:CYS:SG	2.60	0.42
41:L4:128:ALA:HB1	41:L4:134:LEU:HD12	2.01	0.42
42:L5:41:LYS:HD2	42:L5:41:LYS:HA	1.64	0.42
44:L7:35:ALA:O	44:L7:39:GLU:HG3	2.19	0.42
44:L7:86:VAL:HA	44:L7:136:TYR:HB3	2.01	0.42
51:M5:19:LEU:HA	51:M5:19:LEU:HD12	1.66	0.42
53:M7:116:HIS:O	53:M7:148:LEU:HA	2.19	0.42
55:M9:21:LYS:NZ	55:M9:55:VAL:HA	2.34	0.42
55:M9:96:ILE:O	55:M9:100:ARG:HG3	2.20	0.42
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.55	0.42
66:O0:22:LYS:HD3	66:O0:94:GLU:HG3	2.02	0.42
68:O2:111:ARG:NH2	68:O2:115:LEU:HD21	2.35	0.42
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.55	0.42
79:Q3:7:LYS:HE2	79:Q3:7:LYS:HB3	1.81	0.42
1:6:563:U:C4	1:6:564:G:C6	3.08	0.42
1:6:1570:A:OP1	85:6:2121:OHX:N4	2.52	0.42
1:6:1648:A:H2'	1:6:1649:G:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:123:ALA:HB2	3:s1:165:ARG:HG2	2.01	0.42
3:s1:126:THR:CG2	3:s1:136:ARG:HE	2.29	0.42
4:s2:60:SER:OG	23:d1:15:ARG:NH2	2.53	0.42
6:s4:31:PRO:HD2	6:s4:38:LEU:HD13	2.02	0.42
9:s7:21:ALA:O	9:s7:25:VAL:HG23	2.19	0.42
9:s7:164:TYR:CE1	9:s7:165:LYS:HG3	2.55	0.42
13:c1:101:GLU:CD	25:d3:16:ARG:HH22	2.26	0.42
15:c3:53:LEU:CD1	29:d7:52:THR:HG21	2.49	0.42
20:c8:46:VAL:HG11	20:c8:73:MET:CE	2.50	0.42
23:d1:78:LEU:HD12	23:d1:78:LEU:HA	1.81	0.42
26:d4:82:ALA:O	26:d4:85:PHE:N	2.53	0.42
34:sR:16:HIS:HD1	34:sR:39:ASP:CG	2.26	0.42
34:sR:197:SER:CB	34:sR:216:LYS:HB3	2.50	0.42
36:5:141:C:H2'	36:5:142:C:H6	1.85	0.42
36:5:495:G:H2'	36:5:496:C:O4'	2.20	0.42
36:5:3215:A:H5'	50:m4:121:MET:HE1	2.02	0.42
36:5:3242:G:H8	40:l3:154:TYR:CD2	2.38	0.42
36:5:3278:C:O2'	36:5:3279:A:OP2	2.30	0.42
37:7:64:A:C8	47:m0:206:LEU:HD13	2.54	0.42
38:8:19:C:C4	38:8:20:U:C4	3.08	0.42
40:l3:53:MET:CE	40:l3:327:CYS:HB3	2.50	0.42
42:l5:279:LYS:HD3	42:l5:282:ARG:NH1	2.35	0.42
42:l5:282:ARG:O	42:l5:286:VAL:HG23	2.19	0.42
47:m0:3:ARG:CZ	47:m0:63:GLU:HG3	2.50	0.42
47:m0:101:LYS:HA	47:m0:101:LYS:HD2	1.90	0.42
49:m3:64:LYS:HD2	64:n8:66:ALA:HB1	2.01	0.42
49:m3:116:LEU:HD23	49:m3:116:LEU:HA	1.77	0.42
52:m6:182:ASN:ND2	52:m6:186:ALA:HB2	2.34	0.42
52:m6:182:ASN:HD21	52:m6:186:ALA:HB2	1.85	0.42
58:n2:33:TYR:CE2	58:n2:63:VAL:HG21	2.55	0.42
62:n6:103:LYS:HD3	62:n6:103:LYS:HA	1.69	0.42
67:o1:19:ARG:O	67:o1:20:LEU:HD23	2.19	0.42
78:q2:32:LYS:O	78:q2:33:ALA:HB3	2.20	0.42
1:2:407:A:H2'	1:2:408:C:C6	2.55	0.42
1:2:413:U:H2'	1:2:414:C:C6	2.55	0.42
1:2:442:C:H2'	1:2:443:C:H6	1.85	0.42
1:2:840:U:HO2'	1:2:841:U:H5''	1.85	0.42
1:2:926:A:H5'	1:2:1016:C:O2'	2.20	0.42
1:2:1281:G:H2'	1:2:1282:U:H6	1.85	0.42
1:2:1357:A:H61	1:2:1366:U:H3	1.67	0.42
1:2:1390:U:OP1	19:C7:5:ARG:HD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1568:C:H6	1:2:1568:C:H2'	1.69	0.42
3:S1:29:TRP:CD1	3:S1:47:LEU:HG	2.55	0.42
4:S2:172:ALA:HA	4:S2:173:PRO:HD3	1.92	0.42
5:S3:30:ALA:C	5:S3:32:GLU:H	2.27	0.42
7:S5:25:LEU:HB2	7:S5:26:ALA:H	1.61	0.42
11:S9:54:ARG:HA	11:S9:57:ARG:NE	2.35	0.42
12:C0:14:TYR:CE1	12:C0:18:GLU:HG3	2.55	0.42
14:C2:40:GLY:HA3	14:C2:125:ASN:HB3	2.01	0.42
22:D0:34:LEU:HD11	22:D0:89:ARG:HD2	2.02	0.42
22:D0:80:GLU:HG3	31:D9:54:LYS:NZ	2.35	0.42
30:D8:25:VAL:HG13	30:D8:44:VAL:O	2.19	0.42
35:SM:97:THR:C	35:SM:99:LYS:H	2.27	0.42
36:1:304:G:N3	36:1:304:G:H5'	2.35	0.42
36:1:426:G:H5'	68:O2:50:ILE:HG22	2.01	0.42
36:1:993:G:C5	36:1:2637:A:C2	3.08	0.42
36:1:1486:G:O6	85:1:3836:OHX:N5	2.52	0.42
36:1:1899:G:N7	85:1:3791:OHX:N3	2.67	0.42
36:1:2371:G:O6	85:1:3733:OHX:N3	2.53	0.42
36:1:2573:G:N7	85:1:3859:OHX:N4	2.68	0.42
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.19	0.42
39:L2:138:GLY:O	39:L2:146:THR:HG23	2.19	0.42
42:L5:132:THR:HG21	42:L5:170:GLY:CA	2.48	0.42
43:L6:55:LEU:HA	43:L6:55:LEU:HD23	1.82	0.42
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.84	0.42
45:L8:87:ALA:O	45:L8:90:THR:N	2.51	0.42
46:L9:52:LEU:HD23	46:L9:52:LEU:HA	1.89	0.42
47:M0:77:THR:O	47:M0:81:GLY:N	2.47	0.42
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.20	0.42
48:M1:94:ARG:C	48:M1:96:PHE:H	2.18	0.42
49:M3:46:ILE:HG22	49:M3:46:ILE:O	2.19	0.42
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.20	0.42
62:N6:95:VAL:HA	62:N6:96:PRO:HD3	1.92	0.42
65:N9:14:ARG:CZ	65:N9:18:ARG:HD3	2.49	0.42
75:O9:18:LYS:C	75:O9:20:ASN:H	2.28	0.42
77:Q1:25:LYS:HB2	77:Q1:25:LYS:HE3	1.75	0.42
79:Q3:11:THR:C	79:Q3:13:LYS:N	2.78	0.42
1:6:137:U:H6	1:6:137:U:H2'	1.60	0.42
1:6:550:A:OP2	85:6:2012:OHX:N6	2.52	0.42
1:6:778:G:N7	26:d4:10:ARG:NH1	2.67	0.42
1:6:811:A:N3	1:6:858:G:H1'	2.35	0.42
1:6:1015:U:H5''	1:6:1016:C:OP2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:1637:C:H6	1:6:1637:C:H5''	1.84	0.42
4:s2:88:LYS:N	4:s2:95:ARG:O	2.52	0.42
4:s2:157:LYS:HG2	4:s2:170:ILE:HG23	2.00	0.42
7:s5:89:ILE:H	7:s5:89:ILE:HG13	1.58	0.42
7:s5:203:LYS:O	7:s5:205:SER:N	2.52	0.42
10:s8:173:PRO:C	10:s8:175:GLN:H	2.27	0.42
11:s9:151:ASP:O	11:s9:154:LYS:NZ	2.53	0.42
15:c3:102:LEU:HD12	15:c3:115:LEU:HD12	2.02	0.42
16:c4:10:ASN:HD21	28:d6:58:VAL:HG21	1.84	0.42
18:c6:22:VAL:HG22	18:c6:65:ILE:HD12	2.02	0.42
21:c9:108:LEU:HB3	21:c9:114:VAL:HG22	2.01	0.42
24:d2:53:ILE:HB	24:d2:60:LYS:HB2	2.01	0.42
32:e0:46:ASN:OD1	32:e0:47:VAL:N	2.53	0.42
33:e1:80:ARG:NH1	33:e1:80:ARG:HB2	2.35	0.42
34:sR:301:LEU:HB3	34:sR:313:TRP:HB2	2.01	0.42
36:5:409:A:H61	38:8:15:G:H1'	1.85	0.42
36:5:651:G:C6	36:5:652:G:C6	3.08	0.42
36:5:652:G:OP2	85:5:4007:OHX:N4	2.53	0.42
36:5:750:G:H2'	36:5:751:A:H8	1.85	0.42
36:5:781:G:C2	36:5:782:U:C6	3.08	0.42
36:5:847:A:H2'	36:5:848:A:C8	2.54	0.42
36:5:1135:A:H5'	65:n9:7:HIS:O	2.20	0.42
36:5:2333:C:H2'	36:5:2334:U:O4'	2.20	0.42
36:5:2798:C:H5''	36:5:2799:A:OP1	2.20	0.42
36:5:2971:A:H5''	36:5:2972:G:C5'	2.50	0.42
36:5:3209:A:C4	50:m4:106:ARG:HD3	2.55	0.42
38:8:81:U:H1'	38:8:82:U:C6	2.55	0.42
40:l3:56:ILE:HD12	40:l3:56:ILE:HA	1.54	0.42
40:l3:93:VAL:HG11	40:l3:102:LEU:HD22	2.02	0.42
42:l5:83:LEU:HB3	42:l5:88:ILE:HB	2.01	0.42
43:l6:20:LYS:HA	43:l6:20:LYS:HE3	2.02	0.42
43:l6:66:SER:O	43:l6:68:PRO:HA	2.19	0.42
46:l9:99:ILE:HG22	46:l9:101:VAL:HG23	2.00	0.42
48:m1:97:SER:O	48:m1:156:LYS:HB2	2.20	0.42
51:m5:98:LEU:HD23	51:m5:128:LYS:HD2	2.02	0.42
51:m5:186:GLY:O	51:m5:190:THR:HG22	2.19	0.42
53:m7:70:THR:CG2	53:m7:81:ALA:HB3	2.50	0.42
54:m8:178:ARG:CD	64:n8:50:PRO:HB2	2.50	0.42
58:n2:37:LEU:HD12	58:n2:41:ILE:HD11	2.01	0.42
60:n4:80:ARG:HB2	60:n4:81:PRO:HD2	2.02	0.42
67:o1:84:ASP:N	67:o1:84:ASP:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:196:G:O2'	1:2:197:A:P	2.78	0.42
1:2:687:G:H5'	24:D2:119:LYS:HG2	2.02	0.42
1:2:1531:G:H5'	27:D5:81:ARG:NH2	2.34	0.42
85:2:2054:OHX:N4	85:2:2068:OHX:N1	2.67	0.42
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.20	0.42
7:S5:166:ARG:HD3	30:D8:45:LYS:HG2	2.02	0.42
11:S9:4:ALA:HA	11:S9:5:PRO:HD3	1.90	0.42
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.35	0.42
13:C1:13:PHE:CE2	13:C1:15:LYS:HB3	2.55	0.42
25:D3:137:LYS:HB2	25:D3:139:LYS:HG3	2.01	0.42
36:1:291:C:H5''	51:M5:68:ARG:NH1	2.35	0.42
36:1:297:G:O6	51:M5:12:ARG:NH1	2.51	0.42
36:1:551:A:OP2	36:1:551:A:H2'	2.20	0.42
36:1:1600:U:OP2	85:1:3944:OHX:N3	2.53	0.42
36:1:2660:G:H1'	36:1:2744:U:H1'	2.02	0.42
36:1:2718:U:H2'	36:1:2719:U:C6	2.54	0.42
36:1:3133:C:H2'	36:1:3134:A:H8	1.84	0.42
36:1:3267:A:H2'	43:L6:69:PHE:CZ	2.55	0.42
39:L2:144:ASN:HB2	39:L2:160:SER:HB2	2.02	0.42
42:L5:254:LYS:HA	42:L5:255:PRO:HD2	1.86	0.42
44:L7:90:LYS:HD2	44:L7:91:GLY:H	1.84	0.42
47:M0:76:MET:HB3	47:M0:85:PHE:CE2	2.53	0.42
51:M5:93:LYS:HA	51:M5:93:LYS:HD3	1.95	0.42
51:M5:154:PRO:O	51:M5:157:LYS:HD2	2.20	0.42
52:M6:41:LEU:HD12	52:M6:41:LEU:HA	1.84	0.42
54:M8:98:LYS:HB3	54:M8:99:THR:H	1.57	0.42
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.84	0.42
66:O0:53:LYS:HD2	66:O0:69:TYR:HE2	1.85	0.42
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.19	0.42
78:Q2:33:ALA:O	78:Q2:34:SER:HB3	2.20	0.42
1:6:151:G:N2	1:6:163:G:H22	2.18	0.42
1:6:568:G:O5'	25:d3:90:ASP:HA	2.20	0.42
1:6:653:C:N3	1:6:677:G:N2	2.55	0.42
1:6:1271:G:H2'	1:6:1272:U:O4'	2.20	0.42
1:6:1275:A:H8	1:6:1275:A:OP2	2.03	0.42
1:6:1317:C:H2'	1:6:1318:G:O4'	2.19	0.42
1:6:1553:G:O6	17:c5:43:ARG:HD3	2.19	0.42
7:s5:190:ILE:O	7:s5:194:LEU:HB2	2.20	0.42
7:s5:197:GLU:OE1	7:s5:209:TYR:N	2.53	0.42
11:s9:128:LEU:O	11:s9:133:HIS:HB2	2.20	0.42
22:d0:33:GLN:OE1	22:d0:33:GLN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d0:101:LYS:HD3	22:d0:101:LYS:HA	1.86	0.42
24:d2:25:VAL:HG22	24:d2:65:LEU:HD21	2.01	0.42
25:d3:33:LEU:HA	25:d3:33:LEU:HD13	1.81	0.42
32:e0:44:PHE:O	32:e0:44:PHE:HD1	2.03	0.42
33:e1:88:PRO:HA	33:e1:89:LYS:HA	1.73	0.42
36:5:742:G:H5'	36:5:743:C:OP1	2.19	0.42
36:5:765:C:H4'	36:5:766:U:OP2	2.18	0.42
36:5:1080:A:P	42:l5:140:ARG:NH2	2.93	0.42
36:5:1348:U:OP2	54:m8:38:ARG:NH2	2.37	0.42
36:5:1397:C:O2'	36:5:1398:U:H5'	2.19	0.42
36:5:2777:G:C4	64:n8:60:TYR:CE1	3.07	0.42
36:5:2902:A:P	46:l9:170:LYS:HE3	2.60	0.42
36:5:3288:G:O2'	36:5:3289:G:OP2	2.31	0.42
85:5:3844:OHX:N6	85:7:219:OHX:N6	2.68	0.42
85:5:3934:OHX:N3	85:5:4038:OHX:N4	2.68	0.42
37:7:57:G:C8	37:7:58:C:C5	3.08	0.42
39:l2:36:GLU:HG2	39:l2:90:ALA:O	2.20	0.42
40:l3:139:GLN:OE1	40:l3:142:ALA:HB3	2.20	0.42
41:l4:23:PRO:HB3	41:l4:258:LEU:HB3	2.02	0.42
45:l8:166:LEU:HA	45:l8:166:LEU:HD23	1.77	0.42
46:l9:48:VAL:HG23	46:l9:52:LEU:O	2.20	0.42
46:l9:81:GLY:HA2	46:l9:85:GLY:HA2	2.02	0.42
54:m8:54:LEU:HD13	54:m8:58:ASN:HB2	2.01	0.42
56:n0:132:THR:O	56:n0:133:ALA:HB3	2.20	0.42
1:2:74:U:O2'	1:2:75:U:H5'	2.20	0.42
1:2:82:U:H2'	1:2:83:G:O4'	2.20	0.42
1:2:755:A:HO2'	1:2:756:A:P	2.42	0.42
1:2:800:U:H2'	1:2:801:G:C8	2.55	0.42
1:2:1278:G:H2'	1:2:1279:C:O4'	2.20	0.42
1:2:1357:A:C6	1:2:1367:G:C6	3.08	0.42
1:2:1446:A:O2'	1:2:1448:G:N7	2.47	0.42
4:S2:67:GLN:O	4:S2:71:THR:HG23	2.19	0.42
7:S5:58:LEU:HD21	7:S5:167:ARG:CZ	2.50	0.42
7:S5:97:LEU:O	7:S5:99:MET:N	2.53	0.42
12:C0:71:GLU:H	12:C0:71:GLU:HG2	1.70	0.42
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.53	0.42
28:D6:74:CYS:O	28:D6:76:SER:N	2.53	0.42
30:D8:32:PHE:HE1	30:D8:40:ILE:HD11	1.85	0.42
36:1:73:C:O2	49:M3:59:ARG:HD3	2.20	0.42
36:1:1152:G:N2	85:1:4017:OHX:N6	2.67	0.42
36:1:1237:G:N3	36:1:1237:G:H2'	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1277:C:O2'	36:1:1278:A:C8	2.72	0.42
36:1:1496:C:C2	36:1:1521:G:N2	2.88	0.42
36:1:1579:C:N4	36:1:1580:A:N6	2.68	0.42
36:1:2191:U:H2'	36:1:2192:C:O4'	2.19	0.42
36:1:2331:C:H2'	36:1:2332:A:O4'	2.20	0.42
36:1:2611:U:H2'	36:1:2612:U:H6	1.82	0.42
36:1:2777:G:H5''	36:1:2778:G:OP1	2.20	0.42
37:3:28:C:H5''	48:M1:137:ARG:HG2	2.02	0.42
41:L4:201:GLN:HG3	41:L4:202:ARG:O	2.20	0.42
45:L8:136:LEU:HD22	51:M5:3:ALA:HB2	2.02	0.42
47:M0:34:TYR:N	47:M0:34:TYR:CD1	2.88	0.42
47:M0:65:LEU:HD23	47:M0:65:LEU:HA	1.83	0.42
48:M1:151:SER:O	48:M1:151:SER:OG	2.35	0.42
53:M7:26:PHE:HE1	53:M7:120:ASN:HA	1.85	0.42
64:N8:47:LYS:O	64:N8:48:TYR:HB2	2.20	0.42
70:O4:97:GLU:O	70:O4:100:ILE:N	2.52	0.42
71:O5:85:THR:HB	71:O5:88:LEU:HD12	2.02	0.42
71:O5:92:LEU:HB3	71:O5:96:GLU:O	2.20	0.42
1:6:370:A:H2'	1:6:371:G:O4'	2.20	0.42
1:6:739:G:C4	1:6:740:A:C8	3.08	0.42
1:6:855:A:O2'	1:6:856:A:H3'	2.20	0.42
2:s0:36:TYR:OH	23:d1:66:ASP:OD1	2.38	0.42
2:s0:90:ALA:HA	2:s0:95:ALA:HB3	2.01	0.42
3:s1:60:ALA:HB1	16:c4:36:LYS:NZ	2.35	0.42
3:s1:140:ILE:O	3:s1:210:ILE:HA	2.20	0.42
3:s1:178:GLY:O	3:s1:179:SER:OG	2.35	0.42
5:s3:222:VAL:C	5:s3:223:LYS:HD2	2.44	0.42
7:s5:43:PHE:HD1	7:s5:68:ILE:O	2.03	0.42
8:s6:10:ASN:HB3	8:s6:128:THR:HA	2.02	0.42
11:s9:92:LYS:O	11:s9:96:VAL:HG13	2.20	0.42
12:c0:54:TYR:O	12:c0:68:LEU:HD12	2.20	0.42
21:c9:124:ILE:HD12	21:c9:124:ILE:HA	1.86	0.42
25:d3:59:ILE:HG21	25:d3:118:PRO:HD2	2.02	0.42
30:d8:10:ALA:HB1	30:d8:30:VAL:HB	2.01	0.42
34:sR:74:THR:HG22	34:sR:115:ILE:HG21	2.02	0.42
36:5:200:C:H5'	36:5:221:A:C2	2.55	0.42
36:5:253:A:O2'	36:5:254:A:H8	2.03	0.42
36:5:1013:G:H2'	36:5:1014:U:O4'	2.20	0.42
36:5:2552:C:H5	66:o0:53:LYS:HE3	1.85	0.42
36:5:2689:A:H2'	36:5:2689:A:N3	2.35	0.42
36:5:2698:G:O2'	57:n1:12:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:2775:U:H2'	36:5:2776:C:H6	1.84	0.42
37:7:26:C:H5''	42:l5:56:THR:HG21	2.02	0.42
40:l3:46:PHE:CD2	40:l3:205:VAL:HG13	2.54	0.42
40:l3:92:TYR:HB3	40:l3:99:LEU:HD22	2.01	0.42
40:l3:140:ASP:OD2	40:l3:140:ASP:N	2.53	0.42
42:l5:51:LEU:HB2	42:l5:144:VAL:HG13	2.02	0.42
42:l5:131:LEU:HD13	42:l5:131:LEU:HA	1.91	0.42
43:l6:171:PRO:C	43:l6:173:MET:H	2.28	0.42
52:m6:19:LEU:O	52:m6:23:VAL:HG23	2.20	0.42
55:m9:106:LEU:CD1	55:m9:138:LEU:HD11	2.50	0.42
62:n6:27:ARG:NH1	62:n6:76:LEU:O	2.48	0.42
74:o8:30:LYS:NZ	74:o8:40:GLN:HE22	2.18	0.42
78:q2:71:ARG:C	78:q2:72:LEU:HD23	2.45	0.42
82:p1:34:UNK:O	82:p1:36:UNK:N	2.53	0.42
1:2:10:G:H2'	1:2:11:A:C8	2.55	0.41
1:2:333:A:P	10:S8:48:THR:HB	2.60	0.41
1:2:862:A:H3'	15:C3:16:ILE:HD12	2.02	0.41
1:2:1236:A:C1'	33:E1:138:ARG:HH22	2.32	0.41
2:S0:188:LEU:HD12	2:S0:189:VAL:HG12	2.02	0.41
6:S4:62:LYS:HD3	6:S4:80:THR:OG1	2.20	0.41
6:S4:240:LYS:H	6:S4:240:LYS:CE	2.30	0.41
9:S7:68:ALA:O	9:S7:72:LYS:HG3	2.20	0.41
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.19	0.41
10:S8:74:LYS:NZ	10:S8:112:TRP:HB2	2.35	0.41
10:S8:193:LEU:HD23	10:S8:193:LEU:HA	1.88	0.41
14:C2:57:ALA:HB3	14:C2:85:LYS:HE3	2.02	0.41
18:C6:98:ASP:CG	18:C6:99:GLU:H	2.28	0.41
21:C9:26:GLY:O	21:C9:28:LEU:HG	2.20	0.41
22:D0:22:ILE:HG22	22:D0:93:LEU:O	2.20	0.41
36:1:92:G:OP2	36:1:93:C:H5''	2.19	0.41
36:1:539:C:H2'	36:1:540:U:C6	2.55	0.41
36:1:1121:U:C4	36:1:1122:U:C4	3.08	0.41
36:1:1131:G:O2'	36:1:2373:A:N1	2.47	0.41
36:1:1458:U:C2	36:1:1475:A:C2	3.07	0.41
36:1:1462:A:C6	36:1:1463:U:C4	3.08	0.41
36:1:2130:G:OP2	85:1:3929:OHX:N1	2.53	0.41
36:1:2623:G:C5	36:1:2624:G:C5	3.08	0.41
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.23	0.41
36:1:2916:U:C1'	59:N3:44:SER:HB2	2.50	0.41
36:1:3163:A:N1	36:1:3164:C:N4	2.68	0.41
36:1:3189:G:C6	36:1:3190:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3330:A:H2'	36:1:3331:U:H6	1.85	0.41
85:1:3912:OHX:N5	85:1:4012:OHX:N3	2.67	0.41
38:4:126:A:O2'	38:4:128:U:OP1	2.38	0.41
41:L4:106:TRP:HA	49:M3:24:VAL:HG11	2.01	0.41
41:L4:138:ARG:HG3	41:L4:244:LEU:O	2.20	0.41
44:L7:93:ASN:OD1	44:L7:93:ASN:N	2.39	0.41
45:L8:136:LEU:HD11	45:L8:162:LEU:O	2.20	0.41
49:M3:50:PRO:HB2	49:M3:140:SER:O	2.19	0.41
52:M6:14:HIS:HA	52:M6:123:ALA:O	2.20	0.41
53:M7:108:ASP:OD2	53:M7:110:THR:HG23	2.19	0.41
54:M8:41:ASP:C	54:M8:41:ASP:OD1	2.62	0.41
54:M8:44:PHE:CD2	54:M8:134:GLY:HA3	2.54	0.41
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.50	0.41
55:M9:119:LEU:O	55:M9:123:LEU:HG	2.20	0.41
56:N0:40:ARG:HA	56:N0:40:ARG:HD2	1.86	0.41
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	2.02	0.41
64:N8:88:ASP:O	64:N8:92:LYS:HG2	2.20	0.41
65:N9:28:LYS:HB3	65:N9:29:TYR:HD1	1.84	0.41
68:O2:4:LEU:HD12	68:O2:5:PRO:HD2	2.02	0.41
68:O2:77:ALA:HB3	68:O2:81:ASP:OD2	2.20	0.41
1:6:354:C:H5''	10:s8:16:ALA:HB2	2.02	0.41
1:6:564:G:O2'	1:6:577:G:H4'	2.20	0.41
1:6:1365:C:O3'	18:c6:30:LYS:NZ	2.39	0.41
2:s0:11:PRO:HB3	19:c7:115:LEU:HD22	2.02	0.41
9:s7:50:ASP:OD1	9:s7:50:ASP:N	2.52	0.41
9:s7:75:THR:HG23	9:s7:161:GLN:OE1	2.20	0.41
11:s9:142:ASN:C	11:s9:143:ILE:HD12	2.44	0.41
12:c0:2:LEU:HB3	12:c0:3:MET:H	1.45	0.41
17:c5:77:ARG:HB3	17:c5:102:PHE:CE1	2.55	0.41
18:c6:47:LYS:NZ	18:c6:114:ARG:HD3	2.35	0.41
25:d3:107:PHE:CD2	25:d3:114:LYS:HB3	2.55	0.41
28:d6:84:VAL:C	28:d6:85:ARG:HG2	2.45	0.41
29:d7:47:PHE:HE1	29:d7:49:HIS:HB2	1.85	0.41
33:e1:149:LYS:HE3	33:e1:149:LYS:HB2	1.86	0.41
34:sR:19:TRP:C	34:sR:37:SER:HG	2.25	0.41
36:5:268:A:C6	51:m5:12:ARG:HG2	2.55	0.41
36:5:586:C:H4'	36:5:1165:A:H5'	2.03	0.41
36:5:837:A:H1'	79:q3:10:ILE:HD13	2.02	0.41
36:5:1611:G:H2'	36:5:1612:A:C8	2.55	0.41
36:5:2526:C:O2	45:l8:48:ARG:NH2	2.53	0.41
36:5:2734:A:OP1	85:5:3889:OHX:N6	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:3194:C:O2'	36:5:3195:U:H2'	2.20	0.41
37:7:33:U:C2	42:15:207:TYR:CD2	3.08	0.41
39:12:116:VAL:HG22	39:12:117:GLU:O	2.19	0.41
40:13:90:VAL:HG22	40:13:104:THR:CG2	2.48	0.41
40:13:218:ILE:H	40:13:218:ILE:HD12	1.84	0.41
41:14:230:VAL:HG21	41:14:257:LYS:HD3	2.01	0.41
41:14:237:GLN:O	41:14:246:ARG:HG3	2.20	0.41
45:18:182:GLY:O	45:18:186:LEU:HG	2.20	0.41
80:m2:54:UNK:HA	80:m2:55:UNK:HA	1.83	0.41
53:m7:32:THR:HG21	53:m7:87:SER:HB3	2.02	0.41
57:n1:18:ASP:O	57:n1:21:LYS:N	2.51	0.41
60:n4:127:LYS:NZ	60:n4:131:ALA:HB2	2.35	0.41
64:n8:93:SER:O	64:n8:95:SER:N	2.53	0.41
69:o3:57:LYS:HB3	69:o3:57:LYS:HE2	1.70	0.41
71:o5:62:GLN:O	71:o5:66:VAL:HG23	2.20	0.41
74:o8:32:ASN:HD21	74:o8:34:ALA:HB3	1.85	0.41
1:2:296:U:H2'	1:2:297:U:C6	2.55	0.41
1:2:517:U:H2'	1:2:518:A:H5'	2.01	0.41
1:2:1059:U:H6	1:2:1060:U:C5	2.38	0.41
1:2:1254:U:C4	1:2:1255:G:C6	3.08	0.41
1:2:1486:G:H1'	1:2:1592:A:O2'	2.19	0.41
1:2:1530:C:H2'	1:2:1531:G:H8	1.85	0.41
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.56	0.41
2:S0:103:THR:O	2:S0:106:SER:OG	2.33	0.41
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.55	0.41
7:S5:94:THR:O	7:S5:97:LEU:HB2	2.20	0.41
15:C3:19:SER:O	15:C3:19:SER:OG	2.28	0.41
15:C3:99:ARG:NH2	15:C3:119:GLU:OE1	2.52	0.41
16:C4:102:LEU:O	16:C4:105:LEU:HG	2.19	0.41
20:C8:20:THR:OG1	20:C8:21:ASN:N	2.54	0.41
23:D1:27:ASP:HA	23:D1:29:HIS:CE1	2.55	0.41
36:1:59:G:H2'	38:4:33:A:O2'	2.19	0.41
36:1:124:U:H2'	36:1:125:C:C6	2.54	0.41
36:1:199:A:C6	36:1:219:A:C6	3.08	0.41
36:1:631:U:H2'	36:1:632:G:C8	2.55	0.41
36:1:718:G:N2	36:1:721:G:H1'	2.36	0.41
36:1:810:A:H2'	36:1:811:U:H6	1.85	0.41
36:1:1353:U:H2'	43:L6:9:TRP:CE3	2.53	0.41
36:1:1556:C:H2'	36:1:2169:G:N1	2.35	0.41
36:1:1789:G:O6	85:1:4019:OHX:N2	2.53	0.41
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2670:G:C6	36:1:2671:A:C6	3.09	0.41
36:1:2761:G:N1	36:1:2795:U:H3'	2.35	0.41
36:1:3275:U:O4'	69:O3:66:VAL:HG21	2.20	0.41
38:4:85:G:OP2	62:N6:113:LYS:HE2	2.20	0.41
41:L4:98:ARG:HE	41:L4:98:ARG:HB3	1.71	0.41
42:L5:261:THR:N	42:L5:264:GLN:HG3	2.33	0.41
42:L5:294:ALA:C	42:L5:296:GLN:H	2.28	0.41
45:L8:46:LEU:HD22	45:L8:49:TYR:HD1	1.85	0.41
47:M0:168:SER:C	47:M0:170:LYS:H	2.28	0.41
49:M3:74:GLY:HA3	49:M3:98:ASP:HB2	2.02	0.41
50:M4:32:LEU:HD21	50:M4:94:TRP:CE2	2.54	0.41
55:M9:114:LYS:HB3	55:M9:114:LYS:HE2	1.75	0.41
61:N5:67:ILE:HD12	61:N5:83:VAL:HG12	2.02	0.41
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.20	0.41
67:O1:14:ILE:HG13	67:O1:19:ARG:NH1	2.35	0.41
77:Q1:22:ALA:C	77:Q1:24:SER:N	2.78	0.41
1:6:168:A:C6	1:6:169:A:C6	3.08	0.41
1:6:789:A:OP1	6:s4:108:ARG:NH2	2.47	0.41
1:6:1582:U:C4	1:6:1614:A:C8	3.08	0.41
2:s0:66:ALA:HB1	23:d1:50:TYR:HD1	1.85	0.41
5:s3:202:LEU:HD13	5:s3:202:LEU:HA	1.81	0.41
7:s5:68:ILE:HD12	7:s5:70:VAL:O	2.20	0.41
9:s7:110:GLN:HE21	9:s7:110:GLN:HB3	1.54	0.41
11:s9:64:GLU:OE1	11:s9:69:ARG:NH2	2.54	0.41
17:c5:75:PRO:HG3	17:c5:93:VAL:HG11	2.01	0.41
34:sR:90:ARG:HH21	34:sR:102:ARG:HE	1.68	0.41
35:sM:27:LYS:HE2	36:5:2683:U:OP2	2.20	0.41
36:5:720:A:H5''	54:m8:69:ARG:NH1	2.35	0.41
36:5:738:A:H2'	36:5:739:G:C8	2.55	0.41
36:5:920:A:OP1	36:5:922:U:C5	2.71	0.41
36:5:1308:A:OP2	36:5:2368:A:H4'	2.19	0.41
36:5:2144:A:H1'	36:5:2281:A:N6	2.35	0.41
36:5:2364:G:N2	36:5:2396:G:O2'	2.51	0.41
36:5:2665:U:H4'	36:5:2666:C:OP1	2.20	0.41
36:5:2759:U:H5''	36:5:2760:C:H5'	2.02	0.41
39:l2:96:LEU:O	79:q3:87:ARG:HD3	2.20	0.41
39:l2:171:GLY:O	79:q3:68:ALA:HB2	2.20	0.41
41:l4:33:ASP:OD1	41:l4:33:ASP:N	2.32	0.41
41:l4:230:VAL:C	41:l4:232:SER:N	2.78	0.41
42:l5:208:MET:HE2	42:l5:208:MET:HB3	1.95	0.41
55:m9:114:LYS:O	55:m9:146:LYS:NZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:m9:164:LEU:HD22	55:m9:164:LEU:HA	1.83	0.41
57:n1:138:SER:C	57:n1:139:ARG:HG3	2.46	0.41
62:n6:125:LYS:O	62:n6:126:LEU:HG	2.20	0.41
65:n9:47:LEU:HA	65:n9:50:THR:HG22	2.02	0.41
72:o6:55:ARG:O	72:o6:58:ILE:HD13	2.20	0.41
81:p0:91:GLU:OE2	81:p0:96:ILE:HD11	2.20	0.41
81:p0:98:ASN:O	81:p0:102:SER:OG	2.29	0.41
1:2:180:A:H2'	1:2:181:A:C8	2.55	0.41
1:2:193:U:H2'	1:2:194:U:H2'	2.02	0.41
1:2:333:A:C6	1:2:334:G:C6	3.08	0.41
1:2:514:G:N1	1:2:543:C:C5	2.89	0.41
1:2:702:G:O2'	1:2:703:G:H8	2.04	0.41
1:2:1235:C:H5'	33:E1:146:SER:HB2	2.02	0.41
1:2:1323:C:H2'	1:2:1324:G:O4'	2.21	0.41
1:2:1608:U:O3'	18:C6:73:GLY:HA3	2.20	0.41
1:2:1712:A:H3'	1:2:1713:G:H8	1.85	0.41
5:S3:98:ALA:O	5:S3:101:GLN:N	2.52	0.41
18:C6:79:TYR:O	18:C6:82:ARG:HG2	2.20	0.41
25:D3:31:LYS:HD3	25:D3:31:LYS:HA	1.87	0.41
25:D3:59:ILE:CD1	32:E0:4:VAL:HG13	2.50	0.41
26:D4:84:LYS:HD2	26:D4:85:PHE:CE2	2.55	0.41
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.33	0.41
35:SM:25:ILE:HG12	37:3:39:C:H5'	2.02	0.41
36:1:1101:G:OP2	44:L7:196:LYS:HE2	2.19	0.41
36:1:1191:U:C2	52:M6:48:PHE:CE1	3.09	0.41
36:1:1313:G:O6	85:1:3951:OHX:N3	2.53	0.41
36:1:1394:A:H4'	36:1:1420:C:H4'	2.03	0.41
36:1:2150:G:H4'	79:Q3:22:LEU:HD21	2.01	0.41
36:1:3160:U:H2'	36:1:3161:C:H6	1.84	0.41
36:1:3198:U:H4'	46:L9:21:LYS:NZ	2.34	0.41
36:1:3315:G:H2'	40:L3:123:TYR:CD1	2.54	0.41
37:3:64:A:H3'	47:M0:204:GLY:O	2.20	0.41
37:3:97:A:H2'	37:3:98:C:C6	2.55	0.41
40:L3:227:GLU:OE1	40:L3:231:HIS:HB3	2.21	0.41
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.85	0.41
46:L9:13:PRO:O	46:L9:15:GLY:N	2.50	0.41
48:M1:156:LYS:O	48:M1:160:VAL:HG23	2.21	0.41
55:M9:27:ASN:O	85:M9:201:OHX:N6	2.53	0.41
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	2.02	0.41
63:N7:21:LYS:HD3	63:N7:47:GLU:HA	2.02	0.41
63:N7:136:PHE:N	63:N7:136:PHE:CD1	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:100:ILE:HD12	66:O0:101:LEU:N	2.35	0.41
66:O0:103:THR:HB	66:O0:104:LEU:H	1.62	0.41
68:O2:9:ILE:HG12	68:O2:63:THR:HB	2.02	0.41
72:O6:5:THR:N	72:O6:12:ASN:O	2.43	0.41
1:6:116:U:H2'	1:6:117:U:C6	2.54	0.41
1:6:226:A:H8	1:6:226:A:OP2	2.04	0.41
1:6:846:G:H2'	1:6:847:A:H8	1.85	0.41
1:6:1241:G:H2'	1:6:1242:A:O4'	2.19	0.41
1:6:1244:A:O2'	1:6:1245:G:O5'	2.30	0.41
1:6:1423:U:H2'	1:6:1424:A:O4'	2.20	0.41
1:6:1697:G:N3	1:6:1697:G:H2'	2.35	0.41
2:s0:59:LEU:HD12	23:d1:79:LEU:HD21	2.01	0.41
2:s0:80:THR:C	2:s0:82:GLY:H	2.28	0.41
5:s3:202:LEU:C	5:s3:204:ASP:H	2.28	0.41
8:s6:4:ASN:HB3	8:s6:110:ALA:HA	2.02	0.41
8:s6:68:LEU:HD13	8:s6:68:LEU:HA	1.77	0.41
8:s6:164:LYS:HB3	8:s6:167:LYS:O	2.20	0.41
12:c0:55:VAL:HG23	12:c0:67:THR:O	2.20	0.41
19:c7:61:ILE:C	19:c7:63:LYS:H	2.27	0.41
30:d8:31:GLU:C	30:d8:33:LEU:H	2.25	0.41
32:e0:50:VAL:HA	32:e0:54:ARG:HA	2.02	0.41
34:sR:154:VAL:HG12	34:sR:171:SER:HB3	2.02	0.41
34:sR:232:TYR:OH	34:sR:268:GLN:OE1	2.17	0.41
36:5:90:C:C2'	36:5:91:G:H5'	2.50	0.41
36:5:115:A:P	51:m5:49:ARG:HH21	2.43	0.41
36:5:621:A:H2'	36:5:622:A:H8	1.83	0.41
36:5:652:G:C8	85:5:4007:OHX:N6	2.89	0.41
36:5:982:C:N4	36:5:1101:G:H1	2.17	0.41
36:5:1330:A:OP1	69:o3:19:SER:HB3	2.20	0.41
36:5:1376:C:H1'	36:5:1407:A:C4	2.55	0.41
36:5:1526:U:O2	36:5:1595:U:H5'	2.20	0.41
36:5:2147:A:H2'	36:5:2148:U:O4'	2.19	0.41
36:5:2294:U:C2	36:5:2297:U:C5	3.08	0.41
36:5:2393:G:O2'	36:5:2394:G:OP2	2.35	0.41
36:5:2902:A:H2'	36:5:2903:A:O4'	2.21	0.41
39:l2:215:ASN:O	39:l2:215:ASN:ND2	2.48	0.41
40:l3:284:ARG:H	40:l3:323:MET:HB3	1.85	0.41
41:l4:25:VAL:O	41:l4:127:ALA:HB2	2.19	0.41
43:l6:152:THR:HA	43:l6:153:PRO:HD3	1.80	0.41
45:l8:87:ALA:O	45:l8:91:PHE:N	2.52	0.41
46:l9:80:THR:O	46:l9:84:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:l9:110:LYS:HB2	46:l9:110:LYS:HE3	1.77	0.41
47:m0:74:LYS:HE3	47:m0:74:LYS:HB2	1.80	0.41
48:m1:166:LYS:C	48:m1:168:ASP:N	2.78	0.41
56:n0:109:ASP:OD1	56:n0:113:ARG:HD2	2.20	0.41
57:n1:57:TYR:CG	57:n1:89:LEU:HD21	2.55	0.41
58:n2:76:LEU:O	58:n2:80:THR:OG1	2.26	0.41
60:n4:54:LEU:HA	60:n4:54:LEU:HD13	1.80	0.41
64:n8:27:LYS:O	64:n8:28:HIS:HB2	2.20	0.41
66:o0:13:LYS:O	66:o0:17:VAL:HG23	2.19	0.41
72:o6:91:ASN:O	72:o6:94:ILE:HG22	2.20	0.41
75:o9:8:ARG:O	75:o9:11:GLN:HB3	2.19	0.41
81:p0:33:VAL:HA	81:p0:37:GLN:NE2	2.35	0.41
81:p0:48:ARG:NH2	81:p0:91:GLU:HG3	2.34	0.41
1:2:107:C:H42	1:2:307:G:H1	1.69	0.41
1:2:463:U:C2	1:2:464:A:C8	3.08	0.41
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.35	0.41
1:2:609:U:H4'	1:2:610:G:O5'	2.20	0.41
1:2:720:G:H1'	1:2:721:U:H5''	2.01	0.41
1:2:731:C:H4'	1:2:732:G:OP1	2.20	0.41
1:2:1059:U:O2'	1:2:1060:U:N3	2.54	0.41
1:2:1081:A:H2'	1:2:1083:G:N7	2.35	0.41
1:2:1207:C:N4	1:2:1456:C:H5	2.18	0.41
1:2:1241:G:C6	1:2:1242:A:C6	3.08	0.41
1:2:1357:A:C6	1:2:1358:G:C6	3.08	0.41
1:2:1371:A:OP1	1:2:1371:A:H2'	2.20	0.41
1:2:1399:C:HO2'	1:2:1400:A:P	2.44	0.41
1:2:1573:A:H4'	1:2:1574:G:H5'	2.02	0.41
1:2:1580:C:H2'	1:2:1581:C:C6	2.56	0.41
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.20	0.41
3:S1:84:ILE:HG22	3:S1:86:LEU:HD22	2.00	0.41
9:S7:77:LEU:HD22	9:S7:81:LEU:HD11	2.03	0.41
11:S9:93:LEU:C	11:S9:95:TYR:H	2.28	0.41
20:C8:28:ILE:HB	20:C8:58:ALA:HA	2.03	0.41
25:D3:38:PHE:N	25:D3:38:PHE:CD1	2.88	0.41
26:D4:27:VAL:HG11	26:D4:35:VAL:HG11	2.02	0.41
36:1:213:A:OP1	62:N6:2:ALA:N	2.53	0.41
36:1:355:A:H2'	36:1:356:C:O4'	2.21	0.41
36:1:378:A:H1'	62:N6:90:VAL:HG23	2.01	0.41
36:1:553:U:H5''	36:1:554:A:OP2	2.20	0.41
36:1:1010:G:OP1	47:M0:39:LYS:NZ	2.54	0.41
36:1:2426:U:H2'	36:1:2427:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:1:3944:OHX:N5	85:1:4007:OHX:N1	2.68	0.41
40:L3:92:TYR:HB2	40:L3:157:VAL:HG22	2.01	0.41
46:L9:88:TYR:CZ	46:L9:184:LYS:HG2	2.56	0.41
48:M1:52:TYR:HB2	48:M1:53:THR:H	1.67	0.41
51:M5:197:LEU:HD12	51:M5:197:LEU:HA	1.76	0.41
52:M6:138:LEU:HD12	52:M6:138:LEU:HA	1.62	0.41
54:M8:176:ARG:HA	54:M8:182:LYS:O	2.21	0.41
1:6:71:A:C4	1:6:72:A:H1'	2.55	0.41
1:6:523:G:H8	1:6:523:G:O5'	2.03	0.41
1:6:746:A:H2'	1:6:747:C:O4'	2.21	0.41
1:6:778:G:O6	26:d4:10:ARG:HD2	2.20	0.41
1:6:1402:G:C6	1:6:1403:C:C4	3.08	0.41
1:6:1477:G:H2'	1:6:1478:G:H8	1.86	0.41
1:6:1657:U:H4'	1:6:1658:G:OP2	2.20	0.41
1:6:1681:A:H1'	8:s6:66:GLY:HA3	2.02	0.41
1:6:1714:A:P	60:n4:71:ARG:HH21	2.44	0.41
7:s5:65:ARG:NE	7:s5:65:ARG:HA	2.36	0.41
8:s6:50:PHE:HB3	8:s6:111:LEU:HB3	2.03	0.41
14:c2:91:VAL:HG22	14:c2:92:ALA:H	1.85	0.41
16:c4:103:ARG:HH12	28:d6:48:ALA:HB3	1.85	0.41
17:c5:116:LEU:HD23	17:c5:116:LEU:HA	1.92	0.41
20:c8:15:LEU:H	20:c8:15:LEU:HD22	1.86	0.41
20:c8:32:LEU:C	20:c8:34:THR:H	2.28	0.41
21:c9:105:LEU:HB3	21:c9:122:ARG:NE	2.35	0.41
24:d2:24:GLN:HA	24:d2:63:VAL:O	2.20	0.41
28:d6:40:ALA:HB1	28:d6:42:ARG:HH22	1.85	0.41
34:sR:319:ASN:OD1	34:sR:319:ASN:N	2.53	0.41
36:5:72:C:C2	36:5:74:G:H1'	2.55	0.41
36:5:388:G:N2	53:m7:101:ASN:OD1	2.54	0.41
36:5:739:G:C2	36:5:740:G:C8	3.08	0.41
36:5:1294:A:O2'	36:5:1295:G:H5''	2.20	0.41
36:5:1537:A:N6	36:5:1538:G:C6	2.88	0.41
36:5:2513:U:OP2	85:5:3809:OHX:N3	2.53	0.41
36:5:2623:G:H2'	36:5:2624:G:H8	1.86	0.41
36:5:2743:A:H2'	36:5:2744:U:O4'	2.21	0.41
85:5:3964:OHX:N3	85:5:4039:OHX:N1	2.69	0.41
38:8:107:G:OP2	85:8:224:OHX:N1	2.54	0.41
42:l5:21:ARG:O	42:l5:25:GLU:HG3	2.20	0.41
44:l7:232:ARG:O	44:l7:235:PHE:HB2	2.20	0.41
46:l9:72:LYS:HG2	46:l9:76:ASP:OD2	2.20	0.41
48:m1:41:SER:C	48:m1:43:GLN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:m3:91:ARG:CZ	49:m3:97:VAL:HB	2.50	0.41
50:m4:134:ALA:C	50:m4:136:ALA:H	2.29	0.41
53:m7:32:THR:HG21	53:m7:87:SER:CB	2.50	0.41
57:n1:54:HIS:CE1	57:n1:55:LYS:HG2	2.55	0.41
58:n2:28:PHE:HE1	58:n2:83:TYR:HE2	1.69	0.41
60:n4:71:ARG:O	60:n4:72:SER:OG	2.32	0.41
73:o7:28:HIS:ND1	73:o7:31:LYS:HE2	2.35	0.41
74:o8:66:ILE:H	74:o8:66:ILE:HG13	1.61	0.41
82:p1:34:UNK:C	82:p1:36:UNK:N	2.83	0.41
1:2:289:U:H2'	1:2:290:G:O4'	2.20	0.41
1:2:992:A:H2'	1:2:993:A:H5'	2.02	0.41
1:2:1029:U:O4	85:2:2105:OHX:N5	2.54	0.41
1:2:1583:A:N1	1:2:1611:A:H5''	2.34	0.41
1:2:1622:G:H2'	1:2:1623:C:C6	2.55	0.41
85:2:2042:OHX:N4	85:2:2044:OHX:N1	2.69	0.41
3:S1:61:LEU:CD2	3:S1:62:LYS:H	2.33	0.41
3:S1:172:LEU:HD23	3:S1:172:LEU:HA	1.89	0.41
6:S4:180:LEU:HA	6:S4:180:LEU:HD23	1.79	0.41
8:S6:211:LEU:O	8:S6:215:ARG:HB2	2.20	0.41
9:S7:148:LYS:HB2	9:S7:148:LYS:HE3	1.86	0.41
12:C0:7:ASP:O	12:C0:11:ILE:HG12	2.21	0.41
19:C7:25:THR:HB	19:C7:26:LEU:H	1.72	0.41
22:D0:22:ILE:HD12	22:D0:118:VAL:HA	2.03	0.41
29:D7:11:THR:C	29:D7:13:ALA:N	2.78	0.41
36:1:502:U:OP1	85:1:3729:OHX:N3	2.53	0.41
36:1:1000:C:H6	36:1:1000:C:H2'	1.58	0.41
36:1:1438:U:OP1	41:L4:76:ARG:NH2	2.54	0.41
36:1:2358:A:H2'	36:1:2359:C:O4'	2.21	0.41
36:1:3070:A:OP1	55:M9:62:ARG:NH2	2.49	0.41
36:1:3133:C:H2'	36:1:3134:A:O4'	2.21	0.41
36:1:3174:A:C6	36:1:3175:U:C4	3.08	0.41
37:3:80:G:H2'	37:3:81:U:O4'	2.21	0.41
40:L3:85:VAL:HG13	40:L3:163:HIS:CD2	2.56	0.41
45:L8:78:PHE:C	45:L8:80:TYR:N	2.79	0.41
49:M3:93:ILE:HG22	49:M3:119:TYR:HE2	1.85	0.41
49:M3:110:ASP:O	49:M3:114:GLN:HB2	2.21	0.41
49:M3:174:ARG:CZ	72:O6:9:ILE:HD13	2.51	0.41
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.55	0.41
54:M8:18:ALA:HA	54:M8:53:PHE:CE1	2.56	0.41
54:M8:135:GLN:CD	54:M8:135:GLN:H	2.28	0.41
54:M8:148:GLU:O	54:M8:149:ALA:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:31:ALA:C	58:N2:33:TYR:H	2.28	0.41
72:O6:25:LYS:HG3	72:O6:28:TYR:CE2	2.56	0.41
72:O6:67:LYS:HB3	72:O6:67:LYS:HE2	1.68	0.41
76:Q0:124:LYS:O	76:Q0:126:LYS:NZ	2.51	0.41
1:6:72:A:H2'	1:6:73:U:C1'	2.51	0.41
1:6:594:A:OP2	11:s9:37:LYS:HE2	2.20	0.41
1:6:686:C:H2'	1:6:687:G:C8	2.56	0.41
1:6:918:U:H5''	16:c4:18:ARG:HD2	2.03	0.41
1:6:1556:A:OP1	17:c5:115:TYR:OH	2.26	0.41
1:6:1699:G:C2	1:6:1701:A:H5''	2.56	0.41
3:s1:40:ASN:OD1	3:s1:40:ASN:N	2.54	0.41
6:s4:191:ARG:CZ	6:s4:245:LYS:HD2	2.50	0.41
6:s4:195:ILE:CG2	6:s4:196:VAL:H	2.28	0.41
11:s9:41:GLU:OE2	11:s9:126:ARG:NH2	2.54	0.41
20:c8:54:LEU:C	20:c8:56:LYS:N	2.78	0.41
31:d9:21:CYS:O	31:d9:23:VAL:N	2.54	0.41
34:sR:225:LEU:O	34:sR:228:LYS:HG3	2.20	0.41
36:5:616:G:H2'	36:5:617:G:H8	1.86	0.41
36:5:734:C:H2'	36:5:735:A:O4'	2.20	0.41
36:5:980:A:N6	36:5:1102:A:C6	2.89	0.41
36:5:1663:C:H1'	36:5:1722:U:O4	2.21	0.41
36:5:2960:C:H2'	36:5:2961:G:C8	2.55	0.41
36:5:3042:U:OP2	36:5:3092:C:N4	2.53	0.41
36:5:3121:U:H1'	36:5:3122:A:H5''	2.01	0.41
38:8:63:G:N2	38:8:98:U:O2	2.53	0.41
39:12:187:HIS:ND1	39:12:190:ARG:NH1	2.68	0.41
41:14:22:LEU:HD23	41:14:22:LEU:HA	1.84	0.41
41:14:156:LEU:HD23	41:14:156:LEU:HA	1.83	0.41
41:14:325:LEU:HD23	41:14:325:LEU:HA	1.92	0.41
48:m1:23:VAL:HB	48:m1:65:ILE:O	2.20	0.41
48:m1:82:ARG:HB3	48:m1:112:LEU:HB2	2.02	0.41
48:m1:153:LYS:O	48:m1:153:LYS:HG2	2.20	0.41
58:n2:94:ARG:HD3	58:n2:108:TYR:HE1	1.85	0.41
65:n9:38:LYS:HG3	65:n9:38:LYS:O	2.20	0.41
1:2:79:C:H4'	8:S6:173:PRO:O	2.20	0.41
1:2:320:U:H3'	1:2:321:C:C5'	2.49	0.41
1:2:819:G:O6	1:2:853:G:C6	2.74	0.41
1:2:1041:G:P	85:2:2107:OHX:N5	2.93	0.41
1:2:1098:U:OP1	4:S2:159:THR:HB	2.21	0.41
1:2:1284:C:O2	85:2:2100:OHX:N4	2.53	0.41
85:2:2021:OHX:N4	85:D9:103:OHX:N6	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:28:GLU:HG2	5:S3:69:LEU:HD21	2.02	0.41
8:S6:87:ARG:HD3	8:S6:87:ARG:HA	1.64	0.41
11:S9:99:LEU:HD12	11:S9:100:LYS:H	1.83	0.41
20:C8:88:ARG:NH2	20:C8:91:ASP:OD2	2.53	0.41
20:C8:136:GLN:H	20:C8:136:GLN:HG2	1.19	0.41
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.56	0.41
28:D6:96:ALA:HA	28:D6:97:PRO:HD3	1.93	0.41
35:SM:38:PRO:HA	35:SM:39:PRO:HD2	1.65	0.41
36:1:287:G:H5'	51:M5:179:LYS:O	2.21	0.41
36:1:806:A:C8	36:1:936:A:C6	3.09	0.41
36:1:1758:G:H1	36:1:1767:C:H42	1.68	0.41
36:1:1796:G:H5''	36:1:1797:A:OP1	2.21	0.41
36:1:2197:C:H4'	36:1:2198:A:C8	2.55	0.41
36:1:2401:A:O3'	41:L4:68:GLY:HA2	2.21	0.41
36:1:2693:C:H1'	36:1:2706:G:H5''	2.02	0.41
36:1:3109:G:C2	36:1:3126:C:C2	3.08	0.41
36:1:3280:U:O2'	36:1:3281:U:H5'	2.21	0.41
36:1:3321:C:H2'	36:1:3322:A:O4'	2.20	0.41
41:L4:209:TYR:C	41:L4:254:ALA:HB2	2.46	0.41
44:L7:111:ILE:HG13	44:L7:112:ASN:N	2.35	0.41
45:L8:109:LEU:HD23	45:L8:109:LEU:HA	1.78	0.41
46:L9:126:VAL:HG21	46:L9:161:LEU:HA	2.03	0.41
47:M0:63:GLU:O	47:M0:66:GLU:N	2.53	0.41
50:M4:114:ASP:HA	50:M4:117:ARG:NH1	2.36	0.41
56:N0:47:LYS:O	56:N0:48:LEU:HD23	2.20	0.41
61:N5:28:THR:OG1	61:N5:29:SER:N	2.54	0.41
61:N5:121:LYS:HD3	61:N5:123:TYR:CZ	2.56	0.41
64:N8:115:LYS:HB3	64:N8:116:GLY:H	1.67	0.41
66:O0:78:GLY:HA2	66:O0:87:VAL:HG13	2.03	0.41
73:O7:18:LEU:HA	73:O7:25:ARG:H	1.84	0.41
75:O9:5:LYS:CD	75:O9:13:MET:HE1	2.50	0.41
79:Q3:84:ARG:NH1	79:Q3:88:GLU:OE1	2.53	0.41
1:6:139:C:C2	1:6:176:C:C2	3.09	0.41
1:6:301:A:H2'	1:6:302:U:O4'	2.20	0.41
1:6:579:A:O2'	85:6:2152:OHX:N6	2.53	0.41
1:6:617:U:H2'	1:6:618:U:C6	2.56	0.41
1:6:778:G:O6	26:d4:10:ARG:HB3	2.20	0.41
1:6:819:G:C2	1:6:853:G:C2	3.09	0.41
1:6:1727:G:H2'	1:6:1728:A:C8	2.56	0.41
3:s1:83:LYS:HD2	3:s1:106:THR:N	2.28	0.41
3:s1:180:THR:H	3:s1:183:GLN:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:27:THR:OG1	18:c6:28:LEU:HA	2.21	0.41
8:s6:28:PHE:HA	8:s6:102:VAL:O	2.20	0.41
14:c2:91:VAL:HG11	14:c2:97:LEU:HD23	2.02	0.41
19:c7:56:HIS:CD2	19:c7:57:LEU:HD23	2.56	0.41
22:d0:100:VAL:O	22:d0:104:THR:HG23	2.21	0.41
23:d1:13:VAL:HA	23:d1:14:PRO:HD3	1.83	0.41
23:d1:40:ASP:HB3	23:d1:46:ILE:HD11	2.03	0.41
26:d4:112:LYS:NZ	26:d4:113:ASN:OD1	2.53	0.41
27:d5:42:LEU:HD22	27:d5:47:TYR:HB2	2.02	0.41
28:d6:47:ALA:O	28:d6:50:VAL:HG12	2.21	0.41
34:sR:23:LEU:HD11	34:sR:304:GLY:N	2.36	0.41
36:5:1171:G:P	44:l7:218:ARG:NH1	2.93	0.41
36:5:1280:C:H2'	36:5:1281:G:O4'	2.21	0.41
36:5:1657:C:N4	36:5:1798:A:OP2	2.40	0.41
36:5:2211:U:H5	36:5:2234:G:N1	2.19	0.41
36:5:2400:G:HO2'	36:5:2401:A:P	2.42	0.41
36:5:2519:A:C6	36:5:2589:G:C6	3.09	0.41
36:5:2635:A:H4'	36:5:2636:A:O5'	2.21	0.41
39:l2:90:ALA:HB2	39:l2:101:VAL:HG13	2.03	0.41
44:l7:65:ALA:HB1	44:l7:76:TYR:CD1	2.55	0.41
44:l7:228:SER:HA	44:l7:232:ARG:NH2	2.30	0.41
45:l8:100:GLU:CD	45:l8:108:ARG:HH11	2.29	0.41
50:m4:19:ARG:HA	50:m4:69:THR:HG22	2.02	0.41
51:m5:66:VAL:HG11	51:m5:101:THR:HG22	2.02	0.41
52:m6:157:GLU:OE1	52:m6:160:ARG:NH1	2.53	0.41
54:m8:182:LYS:HA	54:m8:182:LYS:HD3	1.83	0.41
57:n1:14:MET:CE	57:n1:55:LYS:HB2	2.42	0.41
60:n4:79:GLN:HG3	60:n4:80:ARG:N	2.36	0.41
66:o0:19:LYS:H	66:o0:19:LYS:HG2	1.77	0.41
67:o1:10:ARG:HD2	67:o1:12:TYR:OH	2.21	0.41
70:o4:46:ASP:CG	70:o4:80:ARG:HH11	2.27	0.41
71:o5:71:LYS:C	71:o5:73:LYS:H	2.29	0.41
79:q3:49:ARG:HG3	79:q3:55:TRP:CZ2	2.56	0.41
1:2:10:G:C2	1:2:11:A:C4	3.09	0.41
1:2:18:C:C2	1:2:19:A:C8	3.09	0.41
1:2:532:U:O2'	26:D4:33:ALA:HB1	2.20	0.41
1:2:896:U:C1'	16:C4:38:THR:HG21	2.51	0.41
1:2:952:A:H5'	15:C3:98:VAL:HG23	2.02	0.41
1:2:1499:G:C6	1:2:1500:C:C4	3.09	0.41
1:2:1504:G:C2	1:2:1505:A:C4	3.09	0.41
1:2:1773:C:OP1	77:Q1:3:ALA:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.46	0.41
6:S4:248:ILE:H	6:S4:248:ILE:HG12	1.71	0.41
7:S5:120:ILE:HG23	27:D5:59:TYR:CE1	2.56	0.41
9:S7:122:HIS:O	9:S7:125:ILE:HB	2.19	0.41
10:S8:104:ILE:HG13	10:S8:165:LEU:HB2	2.03	0.41
10:S8:106:ALA:HB2	10:S8:165:LEU:HG	2.02	0.41
14:C2:135:MET:HE3	14:C2:135:MET:HB3	1.87	0.41
15:C3:42:ARG:HB2	15:C3:42:ARG:NH1	2.35	0.41
16:C4:25:ASP:H	16:C4:55:SER:HB3	1.85	0.41
17:C5:47:ARG:NH2	17:C5:47:ARG:HB3	2.35	0.41
21:C9:131:ASP:O	21:C9:135:ILE:HG13	2.21	0.41
26:D4:3:ASP:O	26:D4:5:VAL:N	2.54	0.41
26:D4:12:VAL:HG13	26:D4:23:PHE:HB3	2.02	0.41
34:SR:176:LYS:HG2	34:SR:197:SER:O	2.20	0.41
34:SR:278:PHE:HB3	34:SR:281:TYR:CD1	2.55	0.41
36:1:104:G:H2'	36:1:105:C:O4'	2.21	0.41
36:1:535:G:C4	36:1:554:A:C6	3.09	0.41
36:1:623:U:O3'	69:O3:86:ARG:NH2	2.43	0.41
36:1:1063:G:O2'	36:1:1097:G:N2	2.54	0.41
36:1:1367:G:OP1	68:O2:45:ARG:NH2	2.54	0.41
36:1:2421:U:O2'	78:Q2:52:GLY:HA3	2.21	0.41
36:1:2529:A:C2	36:1:2582:C:C2	3.09	0.41
36:1:2533:G:H3'	36:1:2534:G:H8	1.85	0.41
36:1:3106:A:N6	36:1:3128:G:O2'	2.54	0.41
85:1:3940:OHX:N6	85:1:4004:OHX:N5	2.69	0.41
40:L3:55:THR:HG22	40:L3:56:ILE:H	1.85	0.41
41:L4:74:ILE:H	41:L4:74:ILE:HG13	1.64	0.41
44:L7:116:PHE:CZ	44:L7:144:ILE:HG23	2.55	0.41
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.56	0.41
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.47	0.41
51:M5:37:HIS:NE2	51:M5:63:ARG:HB3	2.35	0.41
61:N5:113:LEU:HD12	61:N5:113:LEU:C	2.46	0.41
75:O9:2:ALA:O	75:O9:3:ALA:HB3	2.21	0.41
1:6:413:U:H2'	1:6:414:C:C6	2.55	0.41
1:6:427:C:H2'	1:6:428:A:O4'	2.20	0.41
1:6:846:G:H21	13:c1:46:LYS:HE2	1.85	0.41
1:6:1419:G:H2'	1:6:1420:C:O4'	2.20	0.41
1:6:1516:A:O2'	1:6:1517:U:H5'	2.20	0.41
3:s1:54:LEU:O	3:s1:55:LYS:HB2	2.21	0.41
7:s5:23:VAL:HG11	18:c6:57:LEU:HB2	2.03	0.41
11:s9:39:LYS:HB3	11:s9:43:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c3:26:PHE:CE2	15:c3:28:LEU:HB2	2.55	0.41
18:c6:36:ILE:C	18:c6:38:LEU:H	2.29	0.41
24:d2:79:PHE:O	24:d2:124:LYS:HA	2.21	0.41
24:d2:87:GLU:O	24:d2:90:THR:OG1	2.35	0.41
27:d5:88:ILE:HD13	27:d5:88:ILE:HA	1.82	0.41
35:sM:54:PRO:HB2	35:sM:59:GLY:HA2	2.02	0.41
36:5:804:C:H5'	41:14:93:MET:HE1	2.03	0.41
36:5:1431:G:C8	64:n8:9:ARG:NH2	2.88	0.41
36:5:1654:A:O2'	70:o4:59:PRO:HD3	2.20	0.41
36:5:1658:G:H2'	36:5:1659:U:C6	2.55	0.41
36:5:1709:C:OP1	70:o4:83:ASN:ND2	2.53	0.41
36:5:1764:U:H3'	36:5:1765:U:C5'	2.51	0.41
36:5:2828:G:P	47:m0:7:ARG:NH1	2.94	0.41
36:5:3046:A:C2	36:5:3096:C:N3	2.88	0.41
37:7:47:C:H2'	37:7:48:U:H6	1.82	0.41
40:l3:183:LEU:HD12	40:l3:183:LEU:HA	1.98	0.41
42:l5:120:LYS:H	42:l5:120:LYS:HG3	1.46	0.41
44:l7:44:ILE:HG12	44:l7:180:SER:HB3	2.02	0.41
45:l8:71:VAL:HG13	45:l8:235:GLY:N	2.36	0.41
51:m5:65:ARG:HG2	51:m5:127:TYR:CG	2.55	0.41
57:n1:12:ARG:HD3	57:n1:13:TYR:CE1	2.56	0.41
57:n1:132:PRO:O	57:n1:134:GLN:HG2	2.21	0.41
60:n4:119:GLU:O	60:n4:123:ARG:N	2.50	0.41
63:n7:97:SER:OG	63:n7:98:THR:N	2.54	0.41
64:n8:121:VAL:HA	64:n8:122:PRO:HD3	1.96	0.41
65:n9:21:ILE:HG22	65:n9:22:LYS:O	2.21	0.41
67:o1:44:MET:HB2	67:o1:44:MET:HE3	1.56	0.41
68:o2:9:ILE:H	68:o2:9:ILE:HG13	1.60	0.41
70:o4:96:GLU:O	70:o4:99:LYS:HB2	2.20	0.41
73:o7:37:CYS:O	73:o7:45:ARG:N	2.31	0.41
79:q3:3:LYS:HE3	79:q3:3:LYS:HB3	1.77	0.41
1:2:17:C:O2'	1:2:1137:A:N6	2.51	0.41
1:2:287:G:O2'	1:2:288:A:OP2	2.34	0.41
1:2:676:G:O6	1:2:677:G:N1	2.53	0.41
1:2:693:U:C5'	1:2:694:U:H5'	2.49	0.41
1:2:767:U:C4	26:D4:64:PHE:CZ	3.09	0.41
1:2:1173:C:O2'	1:2:1174:C:H5'	2.21	0.41
1:2:1237:G:N2	1:2:1248:C:N3	2.68	0.41
1:2:1365:C:H6	1:2:1365:C:O5'	2.04	0.41
1:2:1439:C:H2'	1:2:1440:C:H6	1.86	0.41
4:S2:169:LEU:HD22	4:S2:198:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:157:VAL:HG22	8:S6:173:PRO:HD2	2.02	0.41
15:C3:55:ARG:HD2	29:D7:47:PHE:CD1	2.56	0.41
25:D3:46:SER:OG	25:D3:78:LYS:NZ	2.53	0.41
26:D4:113:ASN:HA	26:D4:116:LYS:HG3	2.03	0.41
28:D6:36:ILE:HD13	28:D6:73:TYR:HB2	2.02	0.41
34:SR:128:ASP:O	34:SR:130:THR:HG23	2.20	0.41
36:1:40:A:C2	64:N8:40:HIS:CE1	3.08	0.41
36:1:372:A:H2'	36:1:373:A:O4'	2.21	0.41
36:1:1262:G:C6	36:1:1278:A:N6	2.89	0.41
36:1:1317:A:O2'	36:1:1318:A:H3'	2.21	0.41
36:1:1495:U:H5	36:1:1835:A:N1	2.18	0.41
36:1:1678:G:C4	36:1:1679:A:C8	3.08	0.41
36:1:2245:C:H4'	39:L2:221:LYS:C	2.45	0.41
36:1:2353:G:H5''	53:M7:86:LYS:HB2	2.02	0.41
36:1:3178:A:C2	52:M6:115:LYS:HG2	2.55	0.41
37:3:27:A:C2	37:3:28:C:C2	3.09	0.41
40:L3:2:SER:O	40:L3:2:SER:OG	2.30	0.41
42:L5:123:GLU:O	42:L5:125:VAL:HG23	2.21	0.41
45:L8:235:GLY:C	45:L8:237:ILE:H	2.28	0.41
48:M1:23:VAL:CG1	48:M1:29:ARG:HG2	2.50	0.41
51:M5:158:HIS:ND1	51:M5:160:GLU:OE2	2.52	0.41
51:M5:194:GLN:HG2	51:M5:194:GLN:H	1.67	0.41
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	2.02	0.41
53:M7:36:ILE:HD12	53:M7:48:LEU:HD21	2.03	0.41
55:M9:13:SER:OG	55:M9:38:ARG:NH2	2.54	0.41
66:O0:41:LEU:HD22	66:O0:66:LYS:O	2.20	0.41
71:O5:20:GLN:HA	71:O5:23:ASP:HB2	2.03	0.41
72:O6:97:SER:C	72:O6:99:ARG:N	2.79	0.41
79:Q3:81:SER:OG	79:Q3:82:THR:N	2.52	0.41
1:6:192:U:O2'	1:6:193:U:O5'	2.38	0.41
1:6:298:C:H5''	6:s4:38:LEU:HB3	2.02	0.41
1:6:1531:G:H2'	1:6:1532:U:H6	1.85	0.41
1:6:1646:C:H2'	1:6:1647:U:C6	2.56	0.41
1:6:1796:C:C2	28:d6:5:ARG:HG2	2.56	0.41
5:s3:217:ILE:C	5:s3:219:ALA:H	2.27	0.41
6:s4:100:ARG:NH2	6:s4:121:TYR:O	2.54	0.41
6:s4:192:ILE:HG22	6:s4:193:GLY:H	1.85	0.41
7:s5:144:GLU:HA	7:s5:161:ASP:HA	2.01	0.41
10:s8:72:ILE:H	10:s8:72:ILE:HG13	1.74	0.41
15:c3:132:VAL:HG23	15:c3:134:VAL:CG1	2.50	0.41
17:c5:43:ARG:CZ	17:c5:47:ARG:HD3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:c6:47:LYS:HD2	18:c6:47:LYS:HA	1.74	0.41
34:sR:281:TYR:HB3	34:sR:285:ALA:HB3	2.02	0.41
34:sR:307:ASP:OD1	34:sR:307:ASP:N	2.49	0.41
36:5:149:U:P	51:m5:49:ARG:HH11	2.43	0.41
36:5:368:G:OP1	85:5:3768:OHX:N4	2.54	0.41
36:5:433:A:H2'	36:5:434:U:O4'	2.21	0.41
36:5:784:A:H2'	54:m8:69:ARG:HH21	1.86	0.41
36:5:1080:A:OP1	42:l5:140:ARG:HB2	2.20	0.41
36:5:1235:U:H4'	36:5:1236:G:H5'	2.03	0.41
36:5:1253:U:O2	36:5:1263:A:H5'	2.20	0.41
36:5:1257:C:H2'	36:5:1258:U:O4'	2.21	0.41
36:5:1386:A:OP2	68:o2:80:LYS:NZ	2.54	0.41
36:5:1438:U:H1'	41:l4:93:MET:O	2.20	0.41
36:5:1748:G:C6	36:5:1749:A:C6	3.09	0.41
36:5:1819:U:H2'	36:5:1820:U:C5'	2.50	0.41
36:5:1918:C:H2'	36:5:1919:G:O4'	2.20	0.41
36:5:2948:C:O2'	36:5:2949:U:H5'	2.21	0.41
36:5:3366:G:C6	36:5:3367:C:N4	2.88	0.41
38:8:157:U:H2'	38:8:158:U:C6	2.55	0.41
41:l4:222:VAL:HA	41:l4:223:PRO:HD3	1.77	0.41
41:l4:286:VAL:C	41:l4:288:ARG:N	2.78	0.41
41:l4:345:GLU:HB3	41:l4:346:LYS:H	1.49	0.41
44:l7:236:ILE:O	44:l7:240:VAL:HG23	2.20	0.41
46:l9:8:GLN:HE22	46:l9:69:ARG:HH11	1.68	0.41
46:l9:112:ILE:HB	46:l9:126:VAL:HB	2.03	0.41
54:m8:92:ARG:HG2	64:n8:76:ASP:O	2.21	0.41
55:m9:41:ILE:HD13	55:m9:41:ILE:HA	1.88	0.41
57:n1:76:ILE:O	57:n1:87:LYS:HB2	2.21	0.41
64:n8:128:ARG:HB3	72:o6:8:ALA:CB	2.51	0.41
67:o1:55:LEU:HD23	67:o1:55:LEU:HA	1.95	0.41
70:o4:20:ILE:HD13	70:o4:32:ALA:HB1	2.03	0.41
1:2:333:A:OP1	10:S8:31:ARG:NH2	2.53	0.41
1:2:738:G:O6	85:2:2056:OHX:N1	2.54	0.41
1:2:794:U:O2'	1:2:794:U:O2	2.39	0.41
1:2:872:G:H2'	1:2:873:U:O4'	2.21	0.41
1:2:911:U:O2'	1:2:915:A:H1'	2.21	0.41
1:2:1147:A:C6	1:2:1148:C:C4	3.09	0.41
1:2:1220:C:H5''	12:C0:52:LYS:HD2	2.02	0.41
1:2:1251:U:H5'	33:E1:135:HIS:CD2	2.56	0.41
1:2:1417:A:OP1	85:2:2030:OHX:N5	2.54	0.41
1:2:1467:C:C4	1:2:1468:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1489:U:H5'	1:2:1494:C:H1'	2.03	0.41
1:2:1536:G:N1	1:2:1538:U:C2	2.89	0.41
1:2:1604:U:H2'	1:2:1605:G:O4'	2.21	0.41
1:2:1629:G:H2'	1:2:1630:U:C6	2.56	0.41
1:2:1678:A:OP1	10:S8:59:ARG:NH1	2.54	0.41
1:2:1759:C:H2'	1:2:1760:G:O4'	2.21	0.41
85:2:2021:OHX:N1	85:D9:103:OHX:N2	2.68	0.41
2:S0:69:ASN:HB3	2:S0:71:GLU:OE1	2.20	0.41
2:S0:73:VAL:O	2:S0:95:ALA:HB1	2.21	0.41
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.86	0.41
3:S1:30:PHE:CZ	3:S1:94:LYS:HA	2.56	0.41
4:S2:38:VAL:O	4:S2:39:THR:OG1	2.23	0.41
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	1.86	0.41
5:S3:164:VAL:O	5:S3:168:ILE:HG13	2.21	0.41
6:S4:69:HIS:CE1	26:D4:17:LEU:HA	2.56	0.41
6:S4:242:LYS:N	6:S4:242:LYS:HE3	2.36	0.41
7:S5:53:VAL:C	7:S5:55:ASP:H	2.28	0.41
8:S6:21:GLU:H	8:S6:21:GLU:HG2	1.64	0.41
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.26	0.41
9:S7:28:GLU:CD	9:S7:35:LYS:HD2	2.46	0.41
9:S7:173:TYR:CE1	9:S7:179:LYS:HB2	2.56	0.41
12:C0:1:MET:HG2	12:C0:2:LEU:N	2.34	0.41
15:C3:118:ILE:O	15:C3:122:ILE:HG13	2.21	0.41
18:C6:27:GLY:HA2	18:C6:63:ILE:O	2.21	0.41
19:C7:21:TYR:HA	19:C7:58:MET:HE1	2.02	0.41
19:C7:28:PHE:O	19:C7:31:ASN:HB2	2.20	0.41
19:C7:44:LYS:HB2	19:C7:44:LYS:HE3	1.89	0.41
21:C9:135:ILE:O	21:C9:139:THR:OG1	2.38	0.41
25:D3:24:TRP:CE3	25:D3:30:LYS:HG3	2.56	0.41
25:D3:41:SER:HA	25:D3:42:PRO:HD3	1.91	0.41
25:D3:77:ILE:C	25:D3:79:ASN:H	2.28	0.41
26:D4:18:LEU:HD23	26:D4:18:LEU:HA	1.87	0.41
36:1:54:C:H5''	36:1:1548:C:H1'	2.02	0.41
36:1:542:G:H2'	36:1:543:C:O4'	2.21	0.41
36:1:567:G:O6	85:1:3863:OHX:N1	2.54	0.41
36:1:587:U:C2'	36:1:588:G:H5'	2.51	0.41
36:1:718:G:O6	36:1:751:A:H1'	2.20	0.41
36:1:837:A:H5'	79:Q3:9:GLY:C	2.46	0.41
36:1:847:A:H2'	36:1:848:A:C8	2.55	0.41
36:1:958:C:OP1	36:1:2799:A:H3'	2.21	0.41
36:1:1158:A:H8	36:1:1158:A:O5'	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1492:G:O2'	75:O9:48:LYS:NZ	2.48	0.41
36:1:1495:U:H2'	36:1:1496:C:H5'	2.03	0.41
36:1:1720:U:C4	55:M9:124:TYR:CE2	3.09	0.41
36:1:2376:G:O2'	36:1:2377:G:H5'	2.20	0.41
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.56	0.41
36:1:2406:C:H2'	36:1:2407:C:C6	2.56	0.41
36:1:3173:G:N1	69:O3:92:LYS:O	2.37	0.41
36:1:3309:G:O6	40:L3:21:ARG:NH2	2.53	0.41
85:1:3854:OHX:N6	85:3:217:OHX:N5	2.69	0.41
37:3:27:A:O4'	37:3:57:G:N2	2.54	0.41
38:4:38:U:O2'	71:O5:89:ARG:NH2	2.53	0.41
38:4:125:U:O2'	38:4:126:A:P	2.79	0.41
38:4:136:G:OP1	61:N5:48:SER:HB3	2.21	0.41
40:L3:57:VAL:O	40:L3:357:LYS:HB2	2.21	0.41
40:L3:58:ARG:HH12	40:L3:352:GLU:CD	2.29	0.41
41:L4:126:ILE:HD11	41:L4:233:LEU:HD13	2.03	0.41
41:L4:187:LEU:HD23	41:L4:198:ARG:O	2.21	0.41
41:L4:202:ARG:HA	41:L4:202:ARG:NE	2.36	0.41
41:L4:290:ILE:O	41:L4:296:GLN:NE2	2.53	0.41
42:L5:68:THR:HG22	42:L5:70:THR:N	2.29	0.41
42:L5:179:ARG:HA	42:L5:179:ARG:HD3	1.92	0.41
43:L6:68:PRO:HB2	43:L6:71:VAL:HG23	2.03	0.41
44:L7:89:ILE:HD12	44:L7:214:TRP:CH2	2.56	0.41
44:L7:208:SER:O	44:L7:243:MET:HB3	2.21	0.41
44:L7:229:PHE:CD1	44:L7:229:PHE:C	2.98	0.41
45:L8:91:PHE:O	45:L8:95:ASN:HB2	2.20	0.41
47:M0:77:THR:OG1	47:M0:78:THR:N	2.53	0.41
47:M0:179:PRO:HA	47:M0:182:LEU:HD12	2.02	0.41
52:M6:65:ASN:O	52:M6:68:ARG:HG2	2.21	0.41
53:M7:131:ARG:HG3	53:M7:137:ASN:OD1	2.21	0.41
54:M8:131:ALA:HB1	54:M8:135:GLN:N	2.35	0.41
54:M8:159:LYS:O	54:M8:161:LYS:HG2	2.21	0.41
56:N0:82:ASP:OD1	56:N0:87:THR:HB	2.21	0.41
57:N1:75:ILE:HG12	57:N1:76:ILE:N	2.35	0.41
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.35	0.41
61:N5:67:ILE:HD12	61:N5:121:LYS:HG3	2.02	0.41
62:N6:122:LYS:HB3	62:N6:122:LYS:HE2	1.90	0.41
63:N7:4:PHE:HE2	66:O0:63:SER:HB3	1.86	0.41
63:N7:67:LYS:HE2	63:N7:67:LYS:HB3	1.88	0.41
63:N7:136:PHE:HB2	70:O4:88:ARG:O	2.21	0.41
64:N8:79:TRP:CZ2	64:N8:121:VAL:HB	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:45:LEU:HD22	69:O3:45:LEU:HA	1.96	0.41
70:O4:3:GLN:HG2	70:O4:30:LEU:HB2	2.02	0.41
70:O4:71:THR:HG22	70:O4:78:GLY:H	1.86	0.41
72:O6:21:THR:O	72:O6:21:THR:OG1	2.34	0.41
72:O6:62:ARG:HB3	72:O6:63:ASN:OD1	2.21	0.41
72:O6:90:MET:O	72:O6:94:ILE:HG13	2.21	0.41
75:O9:49:MET:O	75:O9:50:ASN:C	2.63	0.41
76:Q0:110:CYS:SG	76:Q0:112:LYS:HB2	2.60	0.41
78:Q2:72:LEU:O	78:Q2:80:ARG:HA	2.21	0.41
1:6:18:C:C2	1:6:19:A:C8	3.08	0.41
1:6:87:C:H1'	1:6:168:A:N1	2.36	0.41
1:6:328:A:H2'	1:6:329:G:C8	2.55	0.41
1:6:485:A:N6	1:6:486:G:N3	2.68	0.41
1:6:486:G:OP1	1:6:486:G:H4'	2.19	0.41
1:6:526:A:N6	1:6:527:A:C6	2.89	0.41
1:6:568:G:N7	25:d3:69:ARG:NH2	2.69	0.41
1:6:692:C:H2'	1:6:693:U:O4'	2.21	0.41
1:6:767:U:H5	11:s9:142:ASN:OD1	2.04	0.41
1:6:820:U:H6	1:6:820:U:H2'	1.55	0.41
1:6:856:A:N6	9:s7:116:ARG:HD3	2.36	0.41
1:6:873:U:O2'	1:6:1047:G:OP1	2.37	0.41
1:6:1071:U:H2'	1:6:1072:C:C6	2.56	0.41
1:6:1388:A:C8	1:6:1389:C:N4	2.89	0.41
1:6:1506:G:C2	1:6:1507:G:C8	3.08	0.41
1:6:1584:G:O6	18:c6:13:LYS:NZ	2.39	0.41
1:6:1769:U:O2	16:c4:136:ARG:HD2	2.21	0.41
2:s0:12:GLU:H	2:s0:12:GLU:HG2	1.50	0.41
2:s0:118:PRO:HG2	2:s0:141:ILE:HD13	2.03	0.41
2:s0:185:ARG:HG2	23:d1:45:ALA:O	2.20	0.41
3:s1:81:PHE:O	3:s1:82:ARG:C	2.64	0.41
3:s1:93:GLY:C	3:s1:95:ASN:H	2.27	0.41
3:s1:185:THR:O	3:s1:189:ILE:HG13	2.20	0.41
8:s6:214:LYS:C	8:s6:216:LEU:H	2.28	0.41
12:c0:5:LYS:HG3	12:c0:6:GLU:N	2.35	0.41
13:c1:80:MET:HE3	13:c1:80:MET:HB2	1.90	0.41
24:d2:70:ASN:HB2	24:d2:130:TYR:O	2.20	0.41
25:d3:11:SER:O	25:d3:15:LEU:HG	2.21	0.41
28:d6:23:CYS:HB3	28:d6:28:LYS:H	1.86	0.41
34:sR:105:GLY:O	34:sR:132:LYS:HE3	2.21	0.41
34:sR:111:MET:HE3	34:sR:111:MET:HB3	1.88	0.41
36:5:62:A:H5''	51:m5:164:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:225:C:H2'	36:5:226:C:C6	2.56	0.41
36:5:527:A:H2'	36:5:528:U:O4'	2.21	0.41
36:5:794:U:C2	36:5:795:G:C8	3.08	0.41
36:5:956:U:H2'	36:5:957:C:H6	1.85	0.41
36:5:1084:A:C6	36:5:1085:A:C6	3.09	0.41
36:5:1315:U:O2'	52:m6:133:ARG:HD2	2.20	0.41
36:5:1495:U:H4'	36:5:1514:G:H4'	2.02	0.41
36:5:1508:C:OP1	53:m7:127:ARG:NH2	2.54	0.41
36:5:1564:U:H2'	36:5:1565:G:H8	1.82	0.41
36:5:1635:G:O6	63:n7:17:ARG:HB2	2.20	0.41
36:5:1773:C:H2'	36:5:1774:C:H6	1.84	0.41
36:5:1822:C:H2'	36:5:1823:A:C8	2.55	0.41
36:5:1877:U:H5''	36:5:1878:G:H5'	2.03	0.41
36:5:1921:A:H2'	36:5:1922:A:C8	2.56	0.41
36:5:1936:A:H2'	36:5:1937:U:O4'	2.20	0.41
36:5:2101:C:HO2'	36:5:2102:U:P	2.44	0.41
36:5:2165:G:N2	36:5:2170:U:C4	2.89	0.41
36:5:2171:G:O6	85:5:4033:OHX:N2	2.54	0.41
36:5:2194:G:C6	36:5:2195:C:C4	3.09	0.41
36:5:2242:A:OP2	85:5:4013:OHX:N5	2.54	0.41
36:5:2818:U:H5'	36:5:2818:U:C6	2.46	0.41
36:5:2841:G:H2'	36:5:2844:C:H42	1.86	0.41
36:5:2921:U:H2'	36:5:2923:U:H5''	2.03	0.41
36:5:2943:G:H2'	36:5:2944:U:O4'	2.21	0.41
36:5:3095:U:H2'	36:5:3096:C:C6	2.56	0.41
36:5:3294:A:H5'	40:l3:128:LYS:HG3	2.02	0.41
36:5:3298:C:C4	36:5:3299:A:N7	2.89	0.41
38:8:27:U:H5'	41:l4:51:ALA:O	2.20	0.41
38:8:45:C:OP1	75:o9:12:LYS:NZ	2.45	0.41
39:l2:116:VAL:CG1	39:l2:134:VAL:HG11	2.50	0.41
40:l3:199:PHE:O	40:l3:200:GLU:HB2	2.20	0.41
41:l4:22:LEU:HA	41:l4:23:PRO:HD3	1.57	0.41
41:l4:145:ILE:HA	41:l4:146:PRO:HD3	1.91	0.41
42:l5:148:ILE:HG23	42:l5:151:GLN:HB3	2.03	0.41
42:l5:183:TRP:CZ3	42:l5:185:PHE:HA	2.56	0.41
43:l6:37:GLY:N	43:l6:54:TYR:O	2.48	0.41
44:l7:159:GLN:H	44:l7:159:GLN:HG2	1.62	0.41
44:l7:202:LEU:HD13	44:l7:205:PHE:CZ	2.56	0.41
45:l8:136:LEU:HD23	45:l8:136:LEU:HA	1.81	0.41
46:l9:94:TYR:CD2	46:l9:98:PRO:HA	2.56	0.41
46:l9:122:LYS:HG2	46:l9:123:ILE:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:m0:42:THR:HG23	47:m0:45:GLU:HG3	2.02	0.41
48:m1:60:ARG:NH1	78:q2:104:LEU:O	2.51	0.41
49:m3:47:ALA:HB1	49:m3:48:PRO:CD	2.51	0.41
49:m3:144:THR:O	49:m3:146:PRO:HD3	2.20	0.41
50:m4:16:GLU:O	50:m4:17:VAL:C	2.63	0.41
50:m4:32:LEU:HD11	50:m4:94:TRP:CG	2.56	0.41
50:m4:113:THR:HB	50:m4:116:GLU:HG3	2.02	0.41
52:m6:79:ILE:HG21	52:m6:138:LEU:HD11	2.03	0.41
55:m9:105:LEU:HD21	55:m9:139:VAL:CG1	2.50	0.41
56:n0:47:LYS:HE2	56:n0:122:HIS:HE1	1.86	0.41
56:n0:171:PHE:O	56:n0:172:TYR:C	2.63	0.41
59:n3:27:ASP:HA	59:n3:113:ALA:O	2.21	0.41
63:n7:124:ALA:O	63:n7:126:LYS:N	2.50	0.41
64:n8:83:PRO:HB2	64:n8:86:LYS:HG3	2.03	0.41
65:n9:20:GLY:O	65:n9:21:ILE:HB	2.21	0.41
66:o0:101:LEU:HD22	66:o0:101:LEU:H	1.86	0.41
70:o4:47:CYS:SG	70:o4:81:CYS:SG	3.19	0.41
72:o6:67:LYS:HD2	72:o6:67:LYS:HA	1.85	0.41
75:o9:48:LYS:HA	75:o9:48:LYS:HD3	1.87	0.41
1:2:22:A:OP2	85:2:2078:OHX:N1	2.54	0.41
1:2:27:U:H2'	1:2:28:A:O4'	2.20	0.41
1:2:78:A:H1'	8:S6:175:ILE:HG12	2.03	0.41
1:2:301:A:C6	1:2:302:U:C4	3.09	0.41
1:2:702:G:H4'	1:2:702:G:OP1	2.21	0.41
1:2:1365:C:C4	1:2:1366:U:C5	3.09	0.41
1:2:1611:A:O2'	7:S5:95:ASN:O	2.38	0.41
1:2:1698:G:H1'	1:2:1699:G:OP1	2.21	0.41
5:S3:31:GLU:HA	5:S3:107:PHE:HE2	1.86	0.41
5:S3:132:LYS:HB3	5:S3:189:MET:CG	2.50	0.41
7:S5:157:ARG:O	7:S5:224:ASN:HB3	2.21	0.41
10:S8:163:GLY:HA3	36:1:3354:U:H1'	2.02	0.41
11:S9:89:ASP:OD1	11:S9:90:LYS:HE2	2.21	0.41
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.20	0.41
14:C2:75:VAL:HG21	14:C2:120:VAL:HG21	2.03	0.41
17:C5:112:LEU:HD23	17:C5:112:LEU:HA	1.82	0.41
36:1:239:G:H4'	36:1:240:U:OP1	2.21	0.41
36:1:250:U:C5	36:1:251:G:N7	2.89	0.41
36:1:410:U:O4	85:1:3915:OHX:N2	2.54	0.41
36:1:533:A:H4'	36:1:534:U:OP1	2.20	0.41
36:1:954:U:O4	36:1:1115:G:H1'	2.21	0.41
36:1:1220:U:O2	85:1:3974:OHX:N5	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1246:G:H2'	36:1:1247:U:O4'	2.21	0.41
36:1:1393:A:N3	36:1:1419:A:O2'	2.44	0.41
36:1:1786:G:H2'	36:1:1787:A:C8	2.56	0.41
36:1:1938:U:O4	85:1:3774:OHX:N2	2.54	0.41
36:1:2113:A:O2'	36:1:2116:G:N7	2.51	0.41
36:1:2123:G:O6	85:1:3967:OHX:N2	2.54	0.41
36:1:2631:U:OP2	57:N1:4:SER:OG	2.32	0.41
36:1:3009:G:C6	36:1:3010:U:C4	3.09	0.41
36:1:3242:G:OP2	40:L3:154:TYR:OH	2.29	0.41
36:1:3295:A:OP2	40:L3:126:LYS:N	2.47	0.41
38:4:81:U:C2	38:4:82:U:C5	3.08	0.41
40:L3:78:VAL:HG22	40:L3:323:MET:HG3	2.03	0.41
44:L7:173:LEU:HD22	44:L7:201:PHE:CD1	2.56	0.41
44:L7:202:LEU:HD23	44:L7:202:LEU:HA	1.85	0.41
45:L8:170:CYS:HB3	45:L8:175:VAL:O	2.20	0.41
49:M3:105:ASN:OD1	49:M3:105:ASN:C	2.63	0.41
55:M9:41:ILE:O	55:M9:45:VAL:HG23	2.21	0.41
56:N0:162:THR:OG1	56:N0:163:PHE:N	2.54	0.41
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	2.03	0.41
58:N2:89:LEU:HD13	58:N2:93:ILE:HD12	2.02	0.41
67:O1:46:THR:HG21	67:O1:91:SER:N	2.35	0.41
71:O5:68:GLN:HA	71:O5:71:LYS:HB2	2.03	0.41
79:Q3:74:ALA:O	79:Q3:78:THR:HG23	2.21	0.41
1:6:15:U:H2'	1:6:16:G:O4'	2.21	0.41
1:6:189:C:C2'	1:6:190:C:H5'	2.50	0.41
1:6:647:G:N2	1:6:687:G:N2	2.68	0.41
1:6:704:C:H2'	1:6:705:U:O4'	2.21	0.41
1:6:1455:G:OP1	17:c5:122:THR:HG21	2.20	0.41
1:6:1535:U:H5	7:s5:185:ARG:C	2.29	0.41
85:6:2116:OHX:N2	85:6:2152:OHX:N1	2.69	0.41
2:s0:29:VAL:HG12	2:s0:37:VAL:HG21	2.02	0.41
8:s6:67:VAL:O	8:s6:68:LEU:HB2	2.21	0.41
9:s7:21:ALA:O	9:s7:24:PHE:HB2	2.21	0.41
9:s7:46:ILE:HG12	9:s7:60:ILE:HA	2.03	0.41
10:s8:67:TRP:HA	10:s8:183:ILE:HG23	2.03	0.41
10:s8:176:SER:HB2	10:s8:178:ARG:H	1.85	0.41
15:c3:28:LEU:O	15:c3:32:SER:HB3	2.21	0.41
15:c3:114:ARG:O	15:c3:117:LEU:HB2	2.21	0.41
16:c4:122:PRO:C	16:c4:124:ASP:N	2.79	0.41
32:e0:49:LEU:HD22	32:e0:49:LEU:H	1.86	0.41
34:sR:255:ALA:H	34:sR:292:LEU:HD11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:175:C:H2'	36:5:176:G:C8	2.56	0.41
36:5:366:A:H2'	36:5:367:A:O4'	2.21	0.41
36:5:936:A:H2'	36:5:938:C:C4	2.56	0.41
36:5:1070:U:H2'	36:5:1071:U:O4'	2.21	0.41
36:5:1668:G:H2'	36:5:1669:C:O4'	2.21	0.41
36:5:1728:G:H5''	36:5:1730:G:O4'	2.21	0.41
36:5:2148:U:O2'	39:l2:182:ALA:HB2	2.20	0.41
36:5:3242:G:N2	36:5:3245:A:H5''	2.35	0.41
39:l2:43:GLY:O	39:l2:88:ILE:N	2.41	0.41
39:l2:116:VAL:HG11	39:l2:134:VAL:HG11	2.03	0.41
39:l2:129:ALA:O	39:l2:130:SER:C	2.63	0.41
41:l4:264:SER:C	41:l4:266:THR:H	2.27	0.41
41:l4:300:ARG:O	54:m8:39:ARG:NH1	2.54	0.41
45:l8:73:PRO:HG3	45:l8:233:TRP:N	2.36	0.41
52:m6:72:HIS:O	52:m6:74:ARG:HD3	2.21	0.41
59:n3:70:ARG:HH11	59:n3:70:ARG:HD3	1.75	0.41
59:n3:129:VAL:O	59:n3:133:SER:OG	2.34	0.41
61:n5:133:LEU:HD23	61:n5:133:LEU:HA	1.77	0.41
64:n8:126:LYS:HA	64:n8:146:GLU:O	2.21	0.41
68:o2:109:LEU:HD23	68:o2:109:LEU:HA	1.61	0.41
70:o4:24:LYS:HD3	70:o4:30:LEU:HD23	2.02	0.41
1:2:43:A:H5''	1:2:437:A:N1	2.35	0.40
1:2:301:A:H2'	1:2:302:U:C1'	2.51	0.40
1:2:1473:U:O2'	7:S5:103:ASN:OD1	2.39	0.40
1:2:1625:C:OP1	4:S2:91:ARG:NH2	2.55	0.40
1:2:1647:U:O2	32:E0:2:ALA:N	2.54	0.40
2:S0:87:LEU:HA	2:S0:87:LEU:HD12	1.80	0.40
3:S1:61:LEU:HD13	3:S1:61:LEU:H	1.86	0.40
9:S7:38:LEU:N	9:S7:40:PRO:HD2	2.36	0.40
22:D0:93:LEU:HD23	22:D0:93:LEU:HA	1.85	0.40
22:D0:96:PRO:HG2	22:D0:99:ILE:HG22	2.03	0.40
23:D1:5:LYS:C	23:D1:7:GLN:H	2.29	0.40
25:D3:16:ARG:HG3	25:D3:16:ARG:H	1.70	0.40
28:D6:44:ILE:H	28:D6:44:ILE:HG13	1.63	0.40
30:D8:29:ARG:HG3	30:D8:41:VAL:HG22	2.03	0.40
34:SR:224:ASN:HD22	34:SR:231:MET:HE3	1.85	0.40
36:1:6:A:C2	38:4:154:C:C2	3.09	0.40
36:1:330:G:OP2	85:1:3903:OHX:N2	2.54	0.40
36:1:929:A:O2'	73:O7:49:TRP:O	2.39	0.40
36:1:1127:G:N2	36:1:1129:A:H3'	2.35	0.40
36:1:1853:U:O4	85:1:3838:OHX:N5	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1874:A:H5''	55:M9:18:GLY:HA3	2.03	0.40
36:1:2180:G:H2'	36:1:2181:C:C6	2.56	0.40
36:1:2393:G:O2'	36:1:2394:G:OP2	2.38	0.40
36:1:2714:G:H4'	36:1:2715:A:C5'	2.51	0.40
36:1:3259:U:H5'	36:1:3259:U:C6	2.44	0.40
36:1:3275:U:H5''	69:O3:68:TRP:HZ2	1.85	0.40
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.21	0.40
42:L5:150:LEU:HA	42:L5:150:LEU:HD23	1.77	0.40
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.54	0.40
45:L8:54:GLU:HG2	45:L8:57:ARG:HH21	1.86	0.40
46:L9:89:LYS:O	46:L9:182:SER:N	2.43	0.40
47:M0:16:PRO:C	47:M0:18:PRO:HD3	2.46	0.40
49:M3:131:LYS:H	49:M3:131:LYS:HG2	1.60	0.40
52:M6:51:LYS:HE2	52:M6:144:SER:HB2	2.03	0.40
53:M7:52:LEU:HD21	53:M7:88:VAL:HG11	2.02	0.40
54:M8:40:THR:C	54:M8:42:ALA:N	2.79	0.40
58:N2:22:PRO:HG3	58:N2:105:LEU:HB3	2.02	0.40
61:N5:51:VAL:HA	61:N5:52:PRO:HD3	1.92	0.40
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	2.03	0.40
70:O4:71:THR:HG22	70:O4:78:GLY:N	2.36	0.40
72:O6:4:LYS:HD2	72:O6:13:LYS:O	2.21	0.40
1:6:248:U:H4'	13:c1:36:LYS:HD3	2.03	0.40
1:6:447:U:C4	1:6:448:C:C4	3.09	0.40
1:6:463:U:O2'	1:6:527:A:N1	2.54	0.40
1:6:579:A:N1	5:s3:144:ALA:HB2	2.37	0.40
1:6:616:G:C2	1:6:622:A:N7	2.89	0.40
1:6:1230:A:C8	1:6:1258:U:C4	3.06	0.40
1:6:1257:U:O2'	1:6:1258:U:O4'	2.40	0.40
1:6:1334:U:H2'	1:6:1335:U:O4'	2.20	0.40
1:6:1459:C:OP2	1:6:1459:C:H6	2.04	0.40
1:6:1478:G:C6	1:6:1479:A:C5	3.09	0.40
3:s1:69:CYS:CB	16:c4:114:ARG:HD3	2.52	0.40
4:s2:63:VAL:HG12	4:s2:134:LEU:HD23	2.02	0.40
7:s5:68:ILE:HD13	7:s5:69:PHE:N	2.36	0.40
11:s9:151:ASP:OD1	11:s9:151:ASP:N	2.54	0.40
13:c1:97:TYR:HB3	25:d3:15:LEU:HD12	2.02	0.40
16:c4:77:THR:O	16:c4:110:LEU:HD22	2.20	0.40
25:d3:68:ILE:HG22	25:d3:70:LYS:HZ2	1.87	0.40
34:sR:79:TYR:HE1	34:sR:100:TYR:HE1	1.69	0.40
36:5:200:C:OP1	62:n6:60:ARG:NH1	2.53	0.40
36:5:653:A:OP1	85:5:3825:OHX:N2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5:1485:G:N2	70:o4:4:ARG:HD2	2.35	0.40
36:5:1781:C:H2'	36:5:1782:U:C6	2.56	0.40
36:5:1902:G:C6	36:5:1903:U:C2	3.09	0.40
36:5:2437:G:H2'	36:5:2438:A:O4'	2.21	0.40
36:5:2623:G:C5	36:5:2624:G:C5	3.09	0.40
36:5:3136:G:C6	36:5:3137:C:C4	3.09	0.40
36:5:3353:G:O2'	36:5:3356:G:OP2	2.36	0.40
39:l2:66:PRO:HB2	39:l2:67:TYR:CD2	2.56	0.40
40:l3:293:ASN:HB2	40:l3:304:THR:CA	2.47	0.40
41:l4:328:ASN:HA	41:l4:329:PRO:HD2	1.92	0.40
41:l4:333:VAL:O	41:l4:337:GLU:HG3	2.21	0.40
41:l4:346:LYS:HA	41:l4:346:LYS:HD2	1.54	0.40
42:l5:85:ARG:NH1	42:l5:86:TYR:OH	2.54	0.40
42:l5:113:LEU:HD12	42:l5:113:LEU:HA	1.81	0.40
42:l5:227:LEU:HD12	42:l5:227:LEU:HA	1.93	0.40
44:l7:184:LEU:HD23	44:l7:184:LEU:HA	1.81	0.40
47:m0:24:ARG:O	47:m0:25:ALA:HB3	2.21	0.40
64:n8:74:ASN:HA	64:n8:113:LEU:O	2.21	0.40
66:o0:45:ALA:HB2	66:o0:77:LEU:HD22	2.03	0.40
67:o1:70:ARG:HE	67:o1:102:LYS:HE2	1.86	0.40
70:o4:8:ARG:NH2	70:o4:31:ARG:HD2	2.35	0.40
71:o5:54:VAL:O	71:o5:58:ILE:HG13	2.21	0.40
1:2:18:C:C4	1:2:19:A:N7	2.89	0.40
1:2:256:A:H2'	1:2:257:A:O4'	2.22	0.40
1:2:272:U:H2'	1:2:273:G:C8	2.56	0.40
1:2:566:C:H2'	1:2:567:A:H8	1.86	0.40
1:2:955:A:H2'	1:2:956:C:O4'	2.21	0.40
1:2:1059:U:O2'	1:2:1060:U:C2	2.75	0.40
1:2:1111:G:C2	1:2:1112:G:H1'	2.56	0.40
1:2:1609:U:H2'	1:2:1610:G:O4'	2.22	0.40
3:S1:134:VAL:O	3:S1:218:LEU:HD22	2.22	0.40
5:S3:45:LYS:HE2	5:S3:45:LYS:HB2	1.85	0.40
6:S4:194:THR:OG1	6:S4:211:LYS:O	2.22	0.40
7:S5:41:LYS:HB3	7:S5:41:LYS:HE3	1.77	0.40
15:C3:40:TYR:O	15:C3:43:LYS:HB3	2.21	0.40
18:C6:47:LYS:HD2	18:C6:47:LYS:HA	1.88	0.40
19:C7:88:VAL:HG22	19:C7:89:SER:H	1.86	0.40
22:D0:104:THR:HG21	22:D0:116:VAL:HG21	2.03	0.40
25:D3:93:LEU:HA	25:D3:93:LEU:HD12	1.87	0.40
36:1:177:U:C4	36:1:178:U:C4	3.09	0.40
36:1:681:U:C2	41:L4:115:HIS:ND1	2.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1176:C:OP1	52:M6:25:LYS:HE3	2.21	0.40
36:1:1352:A:H1'	36:1:1353:U:H5'	2.03	0.40
36:1:1388:U:OP2	85:1:4009:OHX:N4	2.54	0.40
36:1:1779:C:O2'	85:1:4031:OHX:N2	2.54	0.40
36:1:1823:A:H2'	36:1:1824:U:C6	2.56	0.40
36:1:2567:C:C2'	36:1:2568:C:H5'	2.51	0.40
36:1:2743:A:H2'	36:1:2744:U:O4'	2.21	0.40
36:1:3048:A:C8	36:1:3090:U:O4	2.74	0.40
38:4:41:A:O2'	73:O7:59:THR:HG22	2.21	0.40
38:4:59:A:H4'	38:4:60:U:H5''	2.02	0.40
38:4:131:A:H2'	38:4:132:G:H8	1.87	0.40
40:L3:44:THR:CG2	40:L3:184:ASN:HB2	2.50	0.40
41:L4:280:ILE:O	54:M8:29:LEU:HD11	2.21	0.40
48:M1:36:VAL:O	48:M1:39:GLN:HG2	2.20	0.40
50:M4:53:VAL:HA	50:M4:54:PRO:HD3	1.64	0.40
54:M8:98:LYS:HE2	54:M8:118:GLY:O	2.20	0.40
59:N3:54:LEU:HD21	59:N3:119:GLY:HA3	2.03	0.40
59:N3:84:SER:HA	59:N3:94:TYR:HB3	2.03	0.40
66:O0:93:LEU:HD23	66:O0:93:LEU:HA	1.86	0.40
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.22	0.40
70:O4:22:VAL:HG12	70:O4:30:LEU:HD22	2.02	0.40
79:Q3:86:LEU:O	79:Q3:89:MET:HB2	2.20	0.40
1:6:78:A:C6	1:6:79:C:C4	3.09	0.40
1:6:775:G:C2	1:6:786:C:C4	3.10	0.40
1:6:1110:G:N2	1:6:1136:U:H1'	2.36	0.40
2:s0:41:ARG:NH1	2:s0:45:VAL:HG21	2.37	0.40
3:s1:61:LEU:HD12	3:s1:64:ARG:HD2	2.01	0.40
3:s1:87:ARG:NH2	3:s1:89:ASP:OD1	2.54	0.40
5:s3:21:LEU:HD23	5:s3:21:LEU:HA	1.92	0.40
7:s5:184:PHE:HE1	7:s5:185:ARG:HH21	1.70	0.40
8:s6:175:ILE:H	8:s6:175:ILE:HG12	1.51	0.40
10:s8:38:ILE:HG12	10:s8:96:LEU:HD11	2.04	0.40
21:c9:53:TRP:O	21:c9:56:LYS:HB2	2.20	0.40
36:5:677:A:OP1	54:m8:89:ASP:HB3	2.22	0.40
36:5:786:A:P	54:m8:146:SER:HB3	2.61	0.40
36:5:981:U:H2'	36:5:982:C:O4'	2.20	0.40
36:5:1095:U:N3	57:n1:127:GLN:HG2	2.37	0.40
36:5:2390:A:H2'	36:5:2391:G:O4'	2.21	0.40
36:5:2888:U:C5	36:5:2910:A:C6	3.09	0.40
36:5:3054:U:O2'	36:5:3055:U:H5'	2.21	0.40
40:l3:361:THR:HG22	40:l3:371:GLN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:l5:270:LYS:HD2	42:l5:272:TYR:HB2	2.04	0.40
45:l8:220:ALA:HA	45:l8:224:ASP:OD2	2.21	0.40
46:l9:52:LEU:HD22	46:l9:53:ILE:H	1.86	0.40
50:m4:46:ILE:O	50:m4:55:ARG:HA	2.21	0.40
55:m9:4:LEU:O	55:m9:7:GLN:HG2	2.22	0.40
56:n0:50:LYS:O	56:n0:51:VAL:HG23	2.21	0.40
63:n7:85:TYR:CE2	63:n7:129:TRP:CE2	3.09	0.40
66:o0:83:LYS:HG2	66:o0:85:PHE:CZ	2.56	0.40
70:o4:38:LEU:HD12	70:o4:38:LEU:H	1.86	0.40
71:o5:101:THR:CG2	71:o5:104:GLN:H	2.34	0.40
74:o8:11:PHE:HD1	74:o8:12:LEU:HD22	1.86	0.40
76:q0:98:LYS:HD3	76:q0:115:CYS:HB2	2.03	0.40
1:2:20:G:H5'	1:2:571:G:C5	2.56	0.40
1:2:542:A:H8	1:2:543:C:H5'	1.87	0.40
1:2:1013:A:H2'	1:2:1014:G:O4'	2.21	0.40
1:2:1203:A:C5	1:2:1555:A:C6	3.09	0.40
1:2:1391:A:H2'	1:2:1392:U:H6	1.86	0.40
85:2:2042:OHX:N3	85:2:2044:OHX:N1	2.69	0.40
2:S0:147:THR:OG1	2:S0:159:ALA:HB1	2.22	0.40
3:S1:147:ALA:O	3:S1:148:ASN:HB3	2.22	0.40
4:S2:112:GLY:HA3	4:S2:132:ALA:O	2.21	0.40
5:S3:88:ALA:O	5:S3:89:GLU:HB2	2.20	0.40
8:S6:12:SER:OG	8:S6:127:THR:O	2.38	0.40
8:S6:72:ARG:HG2	8:S6:98:ARG:HA	2.03	0.40
9:S7:35:LYS:HE3	9:S7:35:LYS:HB3	1.94	0.40
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	2.03	0.40
14:C2:57:ALA:HB3	14:C2:85:LYS:CE	2.51	0.40
20:C8:6:GLN:C	27:D5:42:LEU:HD22	2.46	0.40
21:C9:6:VAL:HG22	21:C9:66:TYR:CE1	2.57	0.40
26:D4:53:ASP:OD1	26:D4:96:LEU:HD22	2.21	0.40
30:D8:19:THR:HG23	30:D8:27:GLN:HE21	1.85	0.40
31:D9:31:ILE:HD13	31:D9:31:ILE:HA	1.97	0.40
34:SR:73:LEU:HD23	34:SR:73:LEU:HA	1.92	0.40
36:1:304:G:H3'	36:1:304:G:OP2	2.21	0.40
36:1:384:A:H2'	36:1:385:A:O4'	2.21	0.40
36:1:979:U:H4'	36:1:980:A:O5'	2.21	0.40
36:1:1257:C:H42	36:1:1261:G:N2	2.19	0.40
36:1:1363:A:OP1	44:L7:160:ARG:HD3	2.21	0.40
36:1:1404:G:N2	36:1:1407:A:OP2	2.54	0.40
36:1:1517:G:H2'	36:1:1518:U:H6	1.86	0.40
36:1:2565:U:H2'	36:1:2566:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2842:U:O2	36:1:2842:U:H2'	2.22	0.40
36:1:3010:U:O4	85:1:3761:OHX:N2	2.54	0.40
36:1:3169:U:H2'	36:1:3170:A:H8	1.85	0.40
85:1:3851:OHX:N5	85:1:3891:OHX:N6	2.69	0.40
43:L6:78:ARG:NH2	43:L6:106:PHE:HB2	2.36	0.40
45:L8:81:THR:OG1	45:L8:181:LYS:HG3	2.22	0.40
46:L9:38:LEU:HD23	46:L9:38:LEU:HA	1.82	0.40
47:M0:148:VAL:O	47:M0:151:GLY:N	2.52	0.40
47:M0:169:LYS:HD2	47:M0:169:LYS:N	2.35	0.40
48:M1:37:LEU:HD22	48:M1:69:VAL:HG12	2.03	0.40
48:M1:54:VAL:C	48:M1:56:THR:H	2.29	0.40
48:M1:91:LEU:HD12	48:M1:163:PHE:CZ	2.56	0.40
48:M1:166:LYS:HE2	48:M1:166:LYS:HB2	1.88	0.40
50:M4:19:ARG:NH2	50:M4:66:THR:O	2.45	0.40
53:M7:10:ASN:HD22	53:M7:13:LYS:NZ	2.19	0.40
58:N2:28:PHE:HE1	58:N2:83:TYR:HE2	1.70	0.40
59:N3:131:SER:HB2	59:N3:132:ASN:H	1.76	0.40
60:N4:31:PHE:HB3	60:N4:36:SER:OG	2.21	0.40
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.36	0.40
71:O5:7:TYR:CE1	71:O5:8:GLU:HG3	2.56	0.40
71:O5:102:GLU:O	71:O5:106:LYS:HG3	2.21	0.40
72:O6:55:ARG:O	72:O6:58:ILE:HD13	2.21	0.40
74:O8:11:PHE:CZ	74:O8:43:PHE:HB3	2.56	0.40
1:6:492:A:H2'	1:6:493:U:H5''	2.04	0.40
1:6:794:U:H5''	1:6:795:U:O2	2.21	0.40
1:6:1146:G:N3	1:6:1635:A:H2	2.18	0.40
1:6:1185:U:C2	1:6:1458:G:N7	2.89	0.40
1:6:1365:C:H2'	1:6:1366:U:O4'	2.21	0.40
2:s0:52:LYS:NZ	23:d1:82:VAL:O	2.27	0.40
3:s1:72:ASP:OD1	16:c4:114:ARG:NH1	2.53	0.40
4:s2:170:ILE:HG12	4:s2:197:TYR:O	2.21	0.40
5:s3:216:PRO:HB2	5:s3:217:ILE:H	1.68	0.40
5:s3:220:PRO:HB2	5:s3:221:SER:H	1.72	0.40
7:s5:128:ASN:O	7:s5:132:VAL:HG23	2.22	0.40
11:s9:123:HIS:HD2	32:e0:33:ARG:NE	2.18	0.40
14:c2:103:LEU:HD23	14:c2:115:VAL:HA	2.03	0.40
15:c3:70:LYS:H	15:c3:70:LYS:HG2	1.60	0.40
17:c5:111:MET:HG2	20:c8:119:ILE:HG13	2.02	0.40
21:c9:102:ARG:O	21:c9:105:LEU:N	2.54	0.40
26:d4:52:LYS:O	26:d4:54:ALA:N	2.54	0.40
28:d6:10:ARG:HD3	28:d6:34:LYS:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:d6:36:ILE:HD12	28:d6:36:ILE:N	2.36	0.40
36:5:130:A:H61	36:5:138:U:H3	1.68	0.40
36:5:287:G:H2'	36:5:288:C:C6	2.56	0.40
36:5:289:A:C2	51:m5:93:LYS:HG3	2.57	0.40
36:5:578:A:H5''	36:5:579:G:O5'	2.21	0.40
36:5:1176:C:H2'	36:5:1177:G:N2	2.37	0.40
36:5:1249:G:H2'	36:5:1250:G:C8	2.56	0.40
36:5:1284:C:O2'	36:5:1285:G:OP1	2.27	0.40
36:5:2294:U:H2'	36:5:2296:A:OP2	2.21	0.40
36:5:2966:G:C6	36:5:2967:A:N6	2.89	0.40
36:5:3033:A:H2'	36:5:3034:C:C6	2.56	0.40
36:5:3195:U:H2'	36:5:3195:U:O2	2.21	0.40
37:7:7:G:OP1	42:l5:33:ARG:HD2	2.22	0.40
42:l5:207:TYR:O	42:l5:211:LEU:HB2	2.21	0.40
44:l7:110:ARG:NH1	54:m8:3:ILE:HD12	2.37	0.40
46:l9:7:GLU:O	46:l9:8:GLN:HG2	2.21	0.40
48:m1:164:LYS:HE3	48:m1:171:VAL:HG12	2.02	0.40
50:m4:46:ILE:HD13	50:m4:58:ILE:HG21	2.03	0.40
52:m6:38:ALA:O	52:m6:41:LEU:HB2	2.21	0.40
52:m6:67:THR:O	52:m6:71:PHE:HE1	2.04	0.40
53:m7:88:VAL:O	53:m7:92:GLN:HG3	2.20	0.40
70:o4:41:ARG:O	70:o4:43:LYS:HE3	2.22	0.40
1:2:107:C:H5''	1:2:383:G:O2'	2.22	0.40
1:2:280:U:H4'	1:2:281:G:O5'	2.20	0.40
1:2:584:C:H1'	32:E0:18:THR:HG21	2.02	0.40
1:2:811:A:C2	1:2:858:G:H1'	2.56	0.40
1:2:1191:U:H5'	18:C6:143:ARG:CZ	2.51	0.40
1:2:1244:A:O2'	1:2:1245:G:OP1	2.34	0.40
1:2:1559:A:C6	20:C8:134:ARG:HD2	2.57	0.40
1:2:1762:A:H1'	1:2:1783:C:H5'	2.02	0.40
2:S0:111:ILE:HA	2:S0:111:ILE:HD12	1.66	0.40
3:S1:76:SER:OG	3:S1:78:ASP:OD2	2.39	0.40
3:S1:81:PHE:CE1	3:S1:109:LYS:HE2	2.56	0.40
4:S2:235:LEU:HD22	4:S2:235:LEU:HA	1.93	0.40
8:S6:75:LEU:O	8:S6:94:ARG:HA	2.21	0.40
11:S9:117:GLY:O	11:S9:119:ALA:N	2.54	0.40
18:C6:115:THR:HB	18:C6:118:ILE:O	2.22	0.40
20:C8:132:ARG:HB3	20:C8:136:GLN:HG3	2.03	0.40
25:D3:102:VAL:HG12	25:D3:127:VAL:HG12	2.04	0.40
34:SR:238:ASP:HB3	34:SR:257:ALA:HB3	2.02	0.40
36:1:67:A:O2'	36:1:315:C:O2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:501:A:H2'	36:1:502:U:H6	1.83	0.40
36:1:592:A:H2'	36:1:593:C:H6	1.86	0.40
36:1:965:A:OP2	85:1:3932:OHX:N6	2.54	0.40
36:1:1077:U:H1'	36:1:1083:G:N2	2.36	0.40
36:1:1161:G:C6	36:1:1162:U:C4	3.09	0.40
36:1:1651:U:H5''	39:L2:71:LEU:HD13	2.02	0.40
36:1:2111:G:H4'	36:1:2112:U:OP2	2.21	0.40
36:1:2208:A:C2	85:1:3904:OHX:N6	2.90	0.40
36:1:2219:A:H2'	36:1:2220:A:C8	2.56	0.40
36:1:2227:C:O2'	36:1:2228:A:H5'	2.21	0.40
36:1:2270:A:H2'	36:1:2271:A:C8	2.55	0.40
36:1:2309:A:H4'	85:1:3997:OHX:N1	2.37	0.40
36:1:2560:C:H5''	36:1:2561:A:H5'	2.03	0.40
36:1:3114:A:O2'	46:L9:62:ARG:NH1	2.55	0.40
36:1:3306:U:H5''	40:L3:21:ARG:NH1	2.37	0.40
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.56	0.40
40:L3:103:THR:HG21	40:L3:147:GLU:CD	2.47	0.40
40:L3:305:ILE:HG12	40:L3:321:PHE:CE2	2.57	0.40
40:L3:364:LYS:C	40:L3:366:GLY:H	2.27	0.40
41:L4:7:THR:OG1	41:L4:9:HIS:HE1	2.05	0.40
45:L8:100:GLU:OE1	45:L8:108:ARG:HD3	2.21	0.40
46:L9:91:ARG:HH21	46:L9:91:ARG:HG3	1.86	0.40
51:M5:37:HIS:CD2	51:M5:63:ARG:HB3	2.57	0.40
51:M5:68:ARG:HH21	51:M5:123:GLN:HG3	1.87	0.40
57:N1:95:HIS:C	57:N1:96:ILE:HD12	2.47	0.40
57:N1:106:LEU:HD12	57:N1:106:LEU:HA	1.76	0.40
62:N6:55:GLU:HB2	62:N6:108:LYS:HB3	2.03	0.40
64:N8:112:ILE:HD13	64:N8:112:ILE:HA	1.96	0.40
1:6:76:A:N3	1:6:76:A:H2'	2.36	0.40
1:6:198:A:C2'	1:6:199:G:H5'	2.52	0.40
1:6:354:C:C2	1:6:355:G:C8	3.10	0.40
1:6:1138:A:H2'	1:6:1139:A:C8	2.55	0.40
1:6:1555:A:P	17:c5:47:ARG:HH21	2.42	0.40
1:6:1626:U:O4	85:6:2136:OHX:N5	2.55	0.40
1:6:1698:G:N2	1:6:1699:G:C8	2.87	0.40
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	2.04	0.40
2:s0:193:GLN:HA	2:s0:194:PRO:HD3	1.91	0.40
3:s1:175:GLU:HG3	3:s1:187:LYS:HD3	2.04	0.40
4:s2:165:VAL:HG13	4:s2:204:THR:HG22	2.03	0.40
5:s3:72:LEU:HD22	12:c0:65:TYR:CD1	2.51	0.40
6:s4:37:LYS:HD2	6:s4:40:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:168:SER:O	9:s7:172:VAL:HG23	2.20	0.40
16:c4:33:LEU:HD13	16:c4:33:LEU:HA	1.90	0.40
18:c6:32:ASN:OD1	18:c6:68:ARG:HA	2.21	0.40
22:d0:108:ILE:HD12	22:d0:108:ILE:HA	1.90	0.40
27:d5:38:HIS:HB3	27:d5:39:ALA:H	1.64	0.40
36:5:171:G:H1	36:5:247:C:N4	2.19	0.40
36:5:413:U:H2'	36:5:414:U:H6	1.84	0.40
36:5:863:C:H2'	36:5:864:G:O4'	2.22	0.40
36:5:929:A:H2'	36:5:930:U:C6	2.56	0.40
36:5:942:U:C4	64:n8:16:SER:HA	2.56	0.40
36:5:1221:A:O3'	81:p0:8:LYS:NZ	2.48	0.40
36:5:1716:U:HO2'	36:5:1717:U:P	2.44	0.40
36:5:2257:C:H2'	36:5:2258:U:H6	1.87	0.40
36:5:2761:G:H1'	36:5:2800:G:H21	1.86	0.40
36:5:3013:U:H2'	36:5:3014:U:C6	2.55	0.40
36:5:3167:A:H8	36:5:3167:A:O5'	2.04	0.40
36:5:3343:G:O2'	36:5:3362:A:N6	2.54	0.40
38:8:111:A:H8	38:8:111:A:H5''	1.86	0.40
40:l3:296:THR:HG22	40:l3:298:PHE:N	2.28	0.40
41:l4:210:ALA:HB2	41:l4:254:ALA:HA	2.03	0.40
41:l4:362:ASP:OD1	85:l4:402:OHX:N4	2.55	0.40
46:l9:83:THR:OG1	46:l9:84:LYS:N	2.51	0.40
46:l9:166:ARG:HD2	46:l9:168:ARG:NH1	2.36	0.40
49:m3:119:TYR:O	49:m3:123:ILE:HG23	2.21	0.40
49:m3:168:ARG:O	49:m3:172:LEU:HG	2.22	0.40
53:m7:111:LYS:CE	53:m7:152:GLU:HB3	2.51	0.40
56:n0:151:PRO:C	56:n0:153:PRO:HD3	2.46	0.40
57:n1:97:LYS:HG2	57:n1:98:HIS:O	2.22	0.40
59:n3:69:LEU:HD12	59:n3:69:LEU:HA	1.95	0.40
63:n7:15:ARG:C	63:n7:19:ALA:HB2	2.46	0.40
72:o6:58:ILE:HA	72:o6:61:ILE:HG13	2.03	0.40
73:o7:18:LEU:HA	73:o7:24:ARG:O	2.21	0.40
74:o8:31:LEU:HD12	74:o8:35:GLY:HA2	2.03	0.40
81:p0:69:ASP:HB2	81:p0:70:LEU:HD23	2.02	0.40
1:2:553:G:H3'	1:2:554:C:H2'	2.03	0.40
1:2:682:C:H2'	1:2:683:C:O4'	2.22	0.40
1:2:704:C:N4	1:2:735:C:C2	2.90	0.40
1:2:1057:U:H1'	1:2:1058:U:H2'	2.04	0.40
1:2:1391:A:H2'	1:2:1392:U:C6	2.56	0.40
3:S1:70:LEU:HD13	3:S1:71:ALA:N	2.37	0.40
4:S2:235:LEU:HD11	23:D1:54:ALA:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:72:VAL:N	6:S4:75:LYS:O	2.52	0.40
16:C4:112:ILE:HG21	28:D6:53:LEU:HD21	2.04	0.40
34:SR:62:LYS:O	34:SR:92:TRP:HH2	2.05	0.40
34:SR:94:VAL:H	34:SR:94:VAL:HG23	1.67	0.40
35:SM:41:SER:O	35:SM:43:ASP:N	2.54	0.40
36:1:230:U:H2'	36:1:231:G:O4'	2.21	0.40
36:1:423:A:H2'	36:1:424:G:O4'	2.22	0.40
36:1:566:G:O2'	36:1:567:G:H5'	2.22	0.40
36:1:1105:A:H2'	36:1:1106:G:C8	2.57	0.40
36:1:1389:G:H5''	68:O2:101:SER:HB3	2.04	0.40
36:1:1794:G:C6	39:L2:187:HIS:CD2	3.09	0.40
36:1:1940:G:H21	36:1:3362:A:H8	1.68	0.40
36:1:3182:G:H2'	36:1:3183:A:O4'	2.20	0.40
36:1:3299:A:C5	36:1:3300:U:C5	3.10	0.40
37:3:109:G:N1	37:3:110:G:C5	2.89	0.40
37:3:112:G:H2'	37:3:113:C:H6	1.80	0.40
40:L3:113:GLU:CD	40:L3:167:ARG:HD3	2.47	0.40
40:L3:284:ARG:HB3	40:L3:323:MET:HB3	2.02	0.40
41:L4:25:VAL:HG22	41:L4:262:TRP:HB2	2.04	0.40
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.57	0.40
44:L7:146:GLN:OE1	44:L7:241:LYS:HE2	2.22	0.40
46:L9:67:ALA:HA	46:L9:70:THR:CG2	2.51	0.40
47:M0:33:ILE:HG12	47:M0:33:ILE:O	2.21	0.40
49:M3:62:THR:O	49:M3:64:LYS:N	2.55	0.40
49:M3:90:ALA:O	49:M3:95:ILE:HB	2.22	0.40
49:M3:172:LEU:HD23	49:M3:172:LEU:HA	1.91	0.40
51:M5:45:PRO:O	51:M5:49:ARG:HB3	2.22	0.40
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.57	0.40
51:M5:136:ASP:O	51:M5:142:ILE:HD13	2.21	0.40
52:M6:81:TYR:OH	52:M6:99:LEU:HD13	2.21	0.40
52:M6:94:ARG:O	52:M6:97:ALA:HB3	2.20	0.40
55:M9:161:ALA:HB1	55:M9:165:LYS:HD2	2.04	0.40
68:O2:94:ALA:O	68:O2:119:VAL:HA	2.21	0.40
68:O2:108:ILE:O	68:O2:112:ALA:N	2.39	0.40
71:O5:68:GLN:C	71:O5:70:TYR:H	2.28	0.40
1:6:487:G:H3'	1:6:488:G:C5'	2.51	0.40
1:6:680:U:C2	1:6:682:C:N4	2.89	0.40
1:6:853:G:H2'	1:6:854:U:C6	2.53	0.40
1:6:1559:A:H5''	20:c8:135:GLY:CA	2.50	0.40
1:6:1585:U:C2	1:6:1586:A:C8	3.10	0.40
4:s2:141:ARG:H	4:s2:141:ARG:HG2	1.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:64:ARG:NH2	5:s3:65:ARG:HD3	2.35	0.40
7:s5:27:THR:HA	7:s5:28:PRO:HD2	1.63	0.40
7:s5:56:ALA:C	7:s5:58:LEU:H	2.25	0.40
7:s5:183:ALA:HB3	7:s5:190:ILE:HD13	2.04	0.40
8:s6:175:ILE:HB	8:s6:178:LEU:HD22	2.04	0.40
10:s8:12:SER:HG	10:s8:14:THR:HG1	1.69	0.40
10:s8:184:LEU:O	10:s8:189:LEU:HD22	2.22	0.40
18:c6:38:LEU:HD11	21:c9:9:VAL:C	2.47	0.40
19:c7:116:LYS:HB2	19:c7:117:LEU:H	1.59	0.40
24:d2:14:ILE:HG23	24:d2:65:LEU:HD11	2.03	0.40
24:d2:24:GLN:OE1	29:d7:4:VAL:HA	2.22	0.40
24:d2:56:HIS:C	24:d2:57:ARG:HG3	2.47	0.40
26:d4:67:GLY:O	26:d4:68:LYS:HB2	2.21	0.40
27:d5:55:PRO:HG3	27:d5:88:ILE:HG23	2.03	0.40
34:sR:248:ASN:ND2	34:sR:298:GLY:HA3	2.37	0.40
36:5:321:C:H2'	36:5:322:U:O4'	2.21	0.40
36:5:627:U:H2'	36:5:628:A:C8	2.56	0.40
36:5:917:A:C5	36:5:918:C:C4	3.09	0.40
36:5:962:A:N1	36:5:2814:G:O2'	2.43	0.40
36:5:976:U:H5'	54:m8:144:ARG:HH12	1.85	0.40
36:5:1098:A:C2	36:5:1099:A:C8	3.09	0.40
36:5:1692:U:C4	36:5:1693:C:N4	2.89	0.40
36:5:2297:U:C2	36:5:2299:A:C6	3.10	0.40
36:5:3383:G:H2'	36:5:3384:U:H6	1.85	0.40
85:5:3964:OHX:N6	85:5:4039:OHX:N4	2.70	0.40
85:5:4025:OHX:N1	85:5:4027:OHX:N2	2.69	0.40
85:5:4049:OHX:N4	85:5:4054:OHX:N6	2.68	0.40
39:l2:44:ILE:C	39:l2:61:VAL:HG23	2.47	0.40
40:l3:148:LEU:HD12	40:l3:148:LEU:HA	1.84	0.40
40:l3:212:ASN:CG	40:l3:353:GLU:HA	2.47	0.40
41:l4:98:ARG:HG2	41:l4:99:MET:O	2.20	0.40
41:l4:138:ARG:NE	41:l4:240:PRO:HD2	2.36	0.40
41:l4:294:GLU:OE1	41:l4:294:GLU:N	2.40	0.40
45:l8:134:TYR:CE2	45:l8:190:VAL:HG11	2.57	0.40
46:l9:81:GLY:O	46:l9:85:GLY:HA2	2.21	0.40
46:l9:162:GLN:HG3	46:l9:163:GLN:N	2.36	0.40
48:m1:95:ASN:OD1	48:m1:95:ASN:N	2.53	0.40
50:m4:127:LYS:O	50:m4:131:VAL:HG23	2.22	0.40
52:m6:116:LYS:HG3	52:m6:117:ARG:N	2.34	0.40
53:m7:52:LEU:HD13	53:m7:52:LEU:HA	1.89	0.40
57:n1:85:LEU:HD23	57:n1:85:LEU:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:n1:126:VAL:HB	57:n1:128:LEU:HG	2.03	0.40
62:n6:39:LEU:HD11	62:n6:108:LYS:HD3	2.02	0.40
62:n6:100:HIS:C	62:n6:102:SER:H	2.29	0.40
68:o2:121:ASN:C	68:o2:122:PRO:O	2.64	0.40
70:o4:8:ARG:HH21	70:o4:31:ARG:HH11	1.70	0.40
75:o9:43:ASN:O	75:o9:45:ARG:N	2.54	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)
1:2:1353:U:O2'	36:5:3165:A:OP1[2_546]	2.08	0.12
36:1:3195:U:OP1	85:C8:201:OHX:N6[2_555]	2.17	0.03

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%)	157 (77%)	31 (15%)	16 (8%)	1	4
2	s0	204/251 (81%)	150 (74%)	39 (19%)	15 (7%)	1	5
3	S1	212/254 (84%)	155 (73%)	31 (15%)	26 (12%)	0	1
3	s1	214/254 (84%)	170 (79%)	28 (13%)	16 (8%)	1	4
4	S2	215/253 (85%)	180 (84%)	21 (10%)	14 (6%)	1	6
4	s2	215/253 (85%)	173 (80%)	32 (15%)	10 (5%)	2	11
5	S3	221/239 (92%)	187 (85%)	26 (12%)	8 (4%)	2	16
5	s3	221/239 (92%)	179 (81%)	29 (13%)	13 (6%)	1	8
6	S4	258/260 (99%)	205 (80%)	38 (15%)	15 (6%)	1	8
6	s4	258/260 (99%)	215 (83%)	23 (9%)	20 (8%)	1	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	S5	204/224 (91%)	155 (76%)	32 (16%)	17 (8%)	0	4
7	s5	204/224 (91%)	154 (76%)	37 (18%)	13 (6%)	1	6
8	S6	224/236 (95%)	187 (84%)	26 (12%)	11 (5%)	1	11
8	s6	216/236 (92%)	189 (88%)	18 (8%)	9 (4%)	2	13
9	S7	182/189 (96%)	133 (73%)	32 (18%)	17 (9%)	0	3
9	s7	184/189 (97%)	152 (83%)	22 (12%)	10 (5%)	1	9
10	S8	184/200 (92%)	158 (86%)	18 (10%)	8 (4%)	2	12
10	s8	184/200 (92%)	150 (82%)	29 (16%)	5 (3%)	4	20
11	S9	183/196 (93%)	142 (78%)	35 (19%)	6 (3%)	3	17
11	s9	183/196 (93%)	145 (79%)	32 (18%)	6 (3%)	3	17
12	C0	83/96 (86%)	71 (86%)	9 (11%)	3 (4%)	2	16
12	c0	82/96 (85%)	61 (74%)	11 (13%)	10 (12%)	0	1
13	C1	145/155 (94%)	121 (83%)	16 (11%)	8 (6%)	1	9
13	c1	144/155 (93%)	118 (82%)	21 (15%)	5 (4%)	3	16
14	C2	122/142 (86%)	72 (59%)	31 (25%)	19 (16%)	0	0
14	c2	122/142 (86%)	72 (59%)	33 (27%)	17 (14%)	0	1
15	C3	148/150 (99%)	130 (88%)	12 (8%)	6 (4%)	2	13
15	c3	148/150 (99%)	119 (80%)	21 (14%)	8 (5%)	1	9
16	C4	125/136 (92%)	99 (79%)	14 (11%)	12 (10%)	0	3
16	c4	126/136 (93%)	99 (79%)	17 (14%)	10 (8%)	1	4
17	C5	122/141 (86%)	89 (73%)	25 (20%)	8 (7%)	1	6
17	c5	133/141 (94%)	98 (74%)	17 (13%)	18 (14%)	0	1
18	C6	139/142 (98%)	111 (80%)	21 (15%)	7 (5%)	1	11
18	c6	140/142 (99%)	122 (87%)	10 (7%)	8 (6%)	1	8
19	C7	116/136 (85%)	83 (72%)	26 (22%)	7 (6%)	1	7
19	c7	113/136 (83%)	89 (79%)	16 (14%)	8 (7%)	1	5
20	C8	143/145 (99%)	116 (81%)	14 (10%)	13 (9%)	0	3
20	c8	143/145 (99%)	117 (82%)	15 (10%)	11 (8%)	1	4
21	C9	141/143 (99%)	114 (81%)	20 (14%)	7 (5%)	1	11
21	c9	141/143 (99%)	119 (84%)	17 (12%)	5 (4%)	3	16
22	D0	105/120 (88%)	89 (85%)	10 (10%)	6 (6%)	1	8

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
22	d0	108/120 (90%)	81 (75%)	20 (18%)	7 (6%)	1	6
23	D1	85/87 (98%)	60 (71%)	15 (18%)	10 (12%)	0	1
23	d1	85/87 (98%)	69 (81%)	13 (15%)	3 (4%)	3	16
24	D2	127/129 (98%)	108 (85%)	17 (13%)	2 (2%)	7	30
24	d2	127/129 (98%)	113 (89%)	12 (9%)	2 (2%)	7	30
25	D3	142/144 (99%)	110 (78%)	19 (13%)	13 (9%)	0	3
25	d3	142/144 (99%)	127 (89%)	12 (8%)	3 (2%)	5	25
26	D4	132/134 (98%)	101 (76%)	19 (14%)	12 (9%)	0	3
26	d4	132/134 (98%)	102 (77%)	20 (15%)	10 (8%)	1	4
27	D5	68/107 (64%)	48 (71%)	15 (22%)	5 (7%)	1	5
27	d5	67/107 (63%)	54 (81%)	9 (13%)	4 (6%)	1	7
28	D6	95/97 (98%)	59 (62%)	23 (24%)	13 (14%)	0	1
28	d6	95/97 (98%)	71 (75%)	17 (18%)	7 (7%)	1	5
29	D7	79/81 (98%)	60 (76%)	16 (20%)	3 (4%)	2	15
29	d7	79/81 (98%)	65 (82%)	10 (13%)	4 (5%)	1	10
30	D8	61/66 (92%)	47 (77%)	10 (16%)	4 (7%)	1	6
30	d8	61/66 (92%)	48 (79%)	8 (13%)	5 (8%)	0	4
31	D9	51/55 (93%)	35 (69%)	12 (24%)	4 (8%)	1	4
31	d9	51/55 (93%)	43 (84%)	4 (8%)	4 (8%)	1	4
32	E0	58/62 (94%)	43 (74%)	12 (21%)	3 (5%)	1	10
32	e0	60/62 (97%)	46 (77%)	8 (13%)	6 (10%)	0	3
33	E1	69/76 (91%)	40 (58%)	13 (19%)	16 (23%)	0	0
33	e1	74/76 (97%)	34 (46%)	21 (28%)	19 (26%)	0	0
34	SR	316/318 (99%)	264 (84%)	38 (12%)	14 (4%)	2	12
34	sR	316/318 (99%)	266 (84%)	38 (12%)	12 (4%)	2	15
35	SM	131/182 (72%)	99 (76%)	18 (14%)	14 (11%)	0	2
35	sM	61/182 (34%)	39 (64%)	13 (21%)	9 (15%)	0	0
39	L2	250/253 (99%)	218 (87%)	24 (10%)	8 (3%)	3	18
39	l2	250/253 (99%)	213 (85%)	23 (9%)	14 (6%)	1	8
40	L3	384/386 (100%)	329 (86%)	48 (12%)	7 (2%)	6	28
40	l3	384/386 (100%)	346 (90%)	28 (7%)	10 (3%)	4	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	L4	359/361 (99%)	301 (84%)	38 (11%)	20 (6%)	1	8
41	l4	359/361 (99%)	289 (80%)	49 (14%)	21 (6%)	1	8
42	L5	294/296 (99%)	232 (79%)	41 (14%)	21 (7%)	1	5
42	l5	292/296 (99%)	249 (85%)	33 (11%)	10 (3%)	3	16
43	L6	152/175 (87%)	135 (89%)	15 (10%)	2 (1%)	9	35
43	l6	153/175 (87%)	130 (85%)	17 (11%)	6 (4%)	2	14
44	L7	220/243 (90%)	194 (88%)	20 (9%)	6 (3%)	4	20
44	l7	221/243 (91%)	199 (90%)	17 (8%)	5 (2%)	5	23
45	L8	231/255 (91%)	182 (79%)	34 (15%)	15 (6%)	1	6
45	l8	229/255 (90%)	178 (78%)	38 (17%)	13 (6%)	1	8
46	L9	189/191 (99%)	162 (86%)	23 (12%)	4 (2%)	5	25
46	l9	189/191 (99%)	170 (90%)	17 (9%)	2 (1%)	11	39
47	M0	207/220 (94%)	169 (82%)	28 (14%)	10 (5%)	2	11
47	m0	209/220 (95%)	168 (80%)	32 (15%)	9 (4%)	2	12
48	M1	167/173 (96%)	126 (75%)	24 (14%)	17 (10%)	0	3
48	m1	167/173 (96%)	142 (85%)	13 (8%)	12 (7%)	1	5
49	M3	191/198 (96%)	152 (80%)	26 (14%)	13 (7%)	1	5
49	m3	192/198 (97%)	157 (82%)	19 (10%)	16 (8%)	0	4
50	M4	134/137 (98%)	113 (84%)	14 (10%)	7 (5%)	1	10
50	m4	135/137 (98%)	116 (86%)	17 (13%)	2 (2%)	8	32
51	M5	201/203 (99%)	185 (92%)	10 (5%)	6 (3%)	3	19
51	m5	201/203 (99%)	179 (89%)	14 (7%)	8 (4%)	2	13
52	M6	195/198 (98%)	173 (89%)	17 (9%)	5 (3%)	4	21
52	m6	195/198 (98%)	183 (94%)	11 (6%)	1 (0%)	24	57
53	M7	181/183 (99%)	154 (85%)	20 (11%)	7 (4%)	2	14
53	m7	153/183 (84%)	134 (88%)	16 (10%)	3 (2%)	6	25
54	M8	183/185 (99%)	161 (88%)	17 (9%)	5 (3%)	4	20
54	m8	183/185 (99%)	149 (81%)	25 (14%)	9 (5%)	1	11
55	M9	186/188 (99%)	165 (89%)	20 (11%)	1 (0%)	24	57
55	m9	186/188 (99%)	165 (89%)	19 (10%)	2 (1%)	11	39
56	N0	170/172 (99%)	156 (92%)	10 (6%)	4 (2%)	4	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
56	n0	170/172 (99%)	154 (91%)	14 (8%)	2 (1%)	10	37
57	N1	157/159 (99%)	137 (87%)	17 (11%)	3 (2%)	6	27
57	n1	157/159 (99%)	141 (90%)	13 (8%)	3 (2%)	6	27
58	N2	98/120 (82%)	77 (79%)	18 (18%)	3 (3%)	3	18
58	n2	96/120 (80%)	80 (83%)	11 (12%)	5 (5%)	1	10
59	N3	134/136 (98%)	119 (89%)	12 (9%)	3 (2%)	5	24
59	n3	134/136 (98%)	123 (92%)	11 (8%)	0	100	100
60	N4	96/155 (62%)	68 (71%)	22 (23%)	6 (6%)	1	6
60	n4	133/155 (86%)	103 (77%)	23 (17%)	7 (5%)	1	10
61	N5	119/141 (84%)	99 (83%)	17 (14%)	3 (2%)	4	21
61	n5	118/141 (84%)	93 (79%)	16 (14%)	9 (8%)	1	4
62	N6	124/126 (98%)	106 (86%)	15 (12%)	3 (2%)	4	22
62	n6	124/126 (98%)	106 (86%)	13 (10%)	5 (4%)	2	13
63	N7	133/135 (98%)	109 (82%)	17 (13%)	7 (5%)	1	10
63	n7	133/135 (98%)	109 (82%)	13 (10%)	11 (8%)	0	4
64	N8	146/148 (99%)	121 (83%)	15 (10%)	10 (7%)	1	5
64	n8	146/148 (99%)	122 (84%)	17 (12%)	7 (5%)	2	11
65	N9	56/58 (97%)	47 (84%)	8 (14%)	1 (2%)	6	28
65	n9	56/58 (97%)	44 (79%)	6 (11%)	6 (11%)	0	2
66	O0	95/104 (91%)	84 (88%)	11 (12%)	0	100	100
66	o0	98/104 (94%)	84 (86%)	10 (10%)	4 (4%)	2	13
67	O1	107/112 (96%)	95 (89%)	7 (6%)	5 (5%)	2	11
67	o1	107/112 (96%)	92 (86%)	10 (9%)	5 (5%)	2	11
68	O2	125/129 (97%)	104 (83%)	14 (11%)	7 (6%)	1	8
68	o2	125/129 (97%)	105 (84%)	16 (13%)	4 (3%)	3	18
69	O3	104/106 (98%)	95 (91%)	8 (8%)	1 (1%)	12	41
69	o3	104/106 (98%)	94 (90%)	9 (9%)	1 (1%)	12	41
70	O4	110/120 (92%)	92 (84%)	16 (14%)	2 (2%)	6	28
70	o4	110/120 (92%)	96 (87%)	8 (7%)	6 (6%)	1	9
71	O5	117/119 (98%)	100 (86%)	12 (10%)	5 (4%)	2	12
71	o5	117/119 (98%)	100 (86%)	14 (12%)	3 (3%)	4	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
72	O6	97/99 (98%)	77 (79%)	12 (12%)	8 (8%)	0	4
72	o6	97/99 (98%)	82 (84%)	10 (10%)	5 (5%)	1	10
73	O7	85/87 (98%)	72 (85%)	13 (15%)	0	100	100
73	o7	85/87 (98%)	68 (80%)	12 (14%)	5 (6%)	1	8
74	O8	75/77 (97%)	64 (85%)	9 (12%)	2 (3%)	4	20
74	o8	75/77 (97%)	59 (79%)	13 (17%)	3 (4%)	2	13
75	O9	48/50 (96%)	41 (85%)	6 (12%)	1 (2%)	5	25
75	o9	48/50 (96%)	41 (85%)	6 (12%)	1 (2%)	5	25
76	Q0	50/52 (96%)	39 (78%)	9 (18%)	2 (4%)	2	13
76	q0	50/52 (96%)	48 (96%)	1 (2%)	1 (2%)	6	25
77	Q1	23/25 (92%)	20 (87%)	3 (13%)	0	100	100
77	q1	23/25 (92%)	23 (100%)	0	0	100	100
78	Q2	103/105 (98%)	82 (80%)	14 (14%)	7 (7%)	1	5
78	q2	103/105 (98%)	95 (92%)	6 (6%)	2 (2%)	6	27
79	Q3	89/91 (98%)	67 (75%)	15 (17%)	7 (8%)	1	4
79	q3	89/91 (98%)	78 (88%)	7 (8%)	4 (4%)	2	12
81	p0	139/311 (45%)	117 (84%)	16 (12%)	6 (4%)	2	12
All	All	22243/23945 (93%)	18323 (82%)	2769 (12%)	1151 (5%)	1	10

All (1151) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	158	VAL
2	S0	187	ALA
2	S0	191	ARG
2	S0	194	PRO
3	S1	37	THR
3	S1	132	ASP
3	S1	148	ASN
3	S1	158	SER
3	S1	181	LEU
3	S1	182	ALA
3	S1	213	ARG
3	S1	221	PRO
4	S2	48	GLY

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Mol	Chain	Res	Type
4	S2	91	ARG
4	S2	147	ASN
5	S3	62	ASN
5	S3	93	ASP
5	S3	220	PRO
7	S5	31	GLU
7	S5	33	VAL
7	S5	35	GLN
7	S5	39	GLU
7	S5	100	ASN
8	S6	154	ARG
8	S6	165	GLY
8	S6	173	PRO
9	S7	30	SER
9	S7	64	VAL
9	S7	67	LEU
9	S7	111	LYS
9	S7	112	ARG
9	S7	116	ARG
9	S7	131	PHE
9	S7	134	GLU
11	S9	98	ALA
11	S9	134	ILE
11	S9	152	SER
13	C1	7	VAL
13	C1	30	ARG
13	C1	55	ASP
14	C2	83	GLU
14	C2	91	VAL
14	C2	113	ARG
14	C2	127	GLY
15	C3	24	ALA
15	C3	27	LYS
16	C4	42	VAL
16	C4	124	ASP
17	C5	54	ALA
17	C5	80	MET
17	C5	125	PRO
18	C6	39	VAL
18	C6	41	PRO
18	C6	97	VAL
18	C6	114	ARG

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Mol	Chain	Res	Type
18	C6	138	PHE
19	C7	23	LYS
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	60	GLU
20	C8	144	ARG
21	C9	31	PRO
21	C9	53	TRP
22	D0	118	VAL
23	D1	4	ASP
24	D2	83	ILE
25	D3	128	SER
25	D3	131	SER
26	D4	53	ASP
27	D5	97	LYS
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL
28	D6	85	ARG
28	D6	86	VAL
29	D7	62	ILE
31	D9	25	SER
32	E0	47	VAL
33	E1	84	VAL
33	E1	98	VAL
33	E1	144	CYS
34	SR	50	ASP
34	SR	238	ASP
34	SR	318	ALA
35	SM	52	PRO
35	SM	68	ARG
35	SM	140	ASP
39	L2	14	SER
40	L3	5	LYS
40	L3	292	ALA
41	L4	4	PRO
41	L4	130	ALA
41	L4	131	VAL
41	L4	311	HIS

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Mol	Chain	Res	Type
42	L5	221	GLU
42	L5	223	PHE
42	L5	233	ALA
42	L5	234	ASP
42	L5	252	ALA
42	L5	253	PHE
43	L6	98	VAL
44	L7	26	VAL
45	L8	25	PRO
45	L8	31	PRO
45	L8	255	SER
47	M0	218	ALA
48	M1	8	PRO
48	M1	11	ASP
48	M1	74	PRO
48	M1	94	ARG
48	M1	165	GLN
49	M3	141	ALA
49	M3	193	ALA
50	M4	8	LYS
50	M4	9	ALA
51	M5	75	VAL
52	M6	110	PRO
52	M6	111	PRO
53	M7	157	VAL
53	M7	163	LYS
56	N0	142	GLN
56	N0	167	ARG
57	N1	124	VAL
58	N2	11	ILE
59	N3	132	ASN
60	N4	81	PRO
61	N5	44	PRO
62	N6	84	LYS
63	N7	30	ASP
63	N7	128	GLN
64	N8	27	LYS
64	N8	76	ASP
64	N8	97	GLU
67	O1	5	LYS
67	O1	84	ASP
71	O5	97	ALA

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Mol	Chain	Res	Type
72	O6	33	ALA
72	O6	77	LEU
74	O8	33	LYS
76	Q0	78	ILE
78	Q2	15	LYS
79	Q3	58	SER
2	s0	4	PRO
2	s0	68	PRO
2	s0	81	PHE
2	s0	95	ALA
2	s0	164	ASN
2	s0	189	VAL
2	s0	206	ASP
3	s1	26	ARG
3	s1	55	LYS
3	s1	206	PRO
3	s1	210	ILE
4	s2	91	ARG
4	s2	92	ALA
4	s2	107	SER
5	s3	61	GLU
5	s3	160	SER
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	104	ASP
6	s4	118	GLU
6	s4	163	ASP
6	s4	164	LEU
6	s4	195	ILE
6	s4	196	VAL
6	s4	205	PHE
7	s5	28	PRO
7	s5	39	GLU
7	s5	43	PHE
7	s5	101	GLY
7	s5	184	PHE
7	s5	204	GLY
8	s6	122	GLU

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Mol	Chain	Res	Type
8	s6	153	VAL
8	s6	173	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	66	SER
9	s7	67	LEU
9	s7	131	PHE
11	s9	91	LYS
12	c0	2	LEU
12	c0	83	PRO
13	c1	133	LYS
14	c2	101	ALA
15	c3	12	SER
15	c3	66	ILE
16	c4	126	THR
16	c4	132	ARG
17	c5	11	VAL
17	c5	17	TYR
17	c5	51	SER
17	c5	52	LYS
17	c5	126	VAL
17	c5	127	ARG
18	c6	39	VAL
18	c6	42	GLU
18	c6	116	LEU
19	c7	88	VAL
19	c7	103	ASP
20	c8	14	ILE
20	c8	55	HIS
21	c9	29	GLU
21	c9	34	VAL
22	d0	15	GLN
22	d0	49	ASN
22	d0	118	VAL
26	d4	30	PRO
26	d4	33	ALA
26	d4	35	VAL
27	d5	85	LYS
27	d5	87	GLY
28	d6	82	ARG
29	d7	60	SER
30	d8	32	PHE

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Mol	Chain	Res	Type
31	d9	6	VAL
31	d9	7	TRP
32	e0	45	VAL
32	e0	60	PRO
33	e1	83	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	98	VAL
33	e1	102	VAL
33	e1	103	LEU
33	e1	137	ASP
34	sR	160	GLU
34	sR	163	ASP
34	sR	165	ASP
34	sR	318	ALA
39	l2	144	ASN
39	l2	215	ASN
39	l2	238	ILE
40	l3	23	ALA
40	l3	129	ALA
41	l4	15	ALA
41	l4	301	PRO
41	l4	311	HIS
41	l4	345	GLU
42	l5	178	ASN
42	l5	258	LYS
43	l6	98	VAL
44	l7	159	GLN
45	l8	25	PRO
45	l8	34	PHE
45	l8	122	LYS
45	l8	133	LYS
48	m1	8	PRO
48	m1	9	MET
48	m1	10	ARG
49	m3	44	ALA
49	m3	47	ALA
49	m3	93	ILE
49	m3	101	ARG
49	m3	134	GLU
49	m3	150	PRO
49	m3	152	THR

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Mol	Chain	Res	Type
51	m5	76	PRO
54	m8	84	VAL
54	m8	99	THR
54	m8	112	ALA
54	m8	113	LYS
57	n1	118	GLU
57	n1	135	PRO
58	n2	27	VAL
58	n2	50	LEU
60	n4	26	SER
60	n4	63	ILE
61	n5	44	PRO
62	n6	83	ASP
62	n6	84	LYS
62	n6	125	LYS
63	n7	4	PHE
63	n7	7	ALA
63	n7	17	ARG
64	n8	47	LYS
64	n8	76	ASP
64	n8	120	ASN
65	n9	21	ILE
65	n9	23	LYS
65	n9	52	LYS
66	o0	100	ILE
67	o1	45	GLY
67	o1	84	ASP
68	o2	5	PRO
69	o3	88	ASN
70	o4	79	SER
71	o5	119	LYS
72	o6	4	LYS
72	o6	98	ARG
73	o7	84	SER
74	o8	17	ARG
74	o8	18	ALA
76	q0	78	ILE
81	p0	93	LEU
2	S0	5	ALA
2	S0	27	ARG
2	S0	39	ASN
2	S0	66	ALA

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Mol	Chain	Res	Type
2	S0	190	ASP
2	S0	195	TRP
3	S1	35	PRO
3	S1	49	ASN
3	S1	60	ALA
3	S1	61	LEU
3	S1	62	LYS
3	S1	63	GLY
3	S1	177	GLN
4	S2	106	ASP
4	S2	247	ALA
5	S3	216	PRO
6	S4	12	LEU
6	S4	195	ILE
6	S4	258	GLN
7	S5	26	ALA
7	S5	43	PHE
7	S5	58	LEU
7	S5	63	GLN
7	S5	98	MET
7	S5	150	GLY
7	S5	153	GLY
8	S6	25	ARG
8	S6	118	GLU
8	S6	152	ASP
8	S6	174	LYS
9	S7	32	PRO
9	S7	98	ILE
10	S8	40	ALA
10	S8	120	THR
11	S9	118	LEU
12	C0	60	SER
13	C1	6	THR
14	C2	93	ASP
14	C2	101	ALA
14	C2	119	SER
14	C2	125	ASN
15	C3	22	ALA
15	C3	28	LEU
16	C4	126	THR
17	C5	126	VAL
19	C7	87	GLU

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Mol	Chain	Res	Type
20	C8	7	GLU
20	C8	25	ASN
20	C8	91	ASP
20	C8	92	ILE
21	C9	69	LYS
23	D1	2	GLU
23	D1	15	ARG
23	D1	41	GLU
24	D2	66	ASN
25	D3	8	GLY
25	D3	46	SER
25	D3	70	LYS
25	D3	112	LYS
26	D4	4	ALA
26	D4	5	VAL
26	D4	35	VAL
26	D4	100	VAL
27	D5	43	ASP
27	D5	71	ILE
28	D6	5	ARG
28	D6	18	VAL
29	D7	57	GLU
30	D8	36	THR
31	D9	6	VAL
31	D9	8	PHE
33	E1	94	LYS
33	E1	111	GLU
33	E1	127	GLY
34	SR	237	GLN
35	SM	82	THR
35	SM	86	ASN
35	SM	111	GLY
39	L2	47	GLN
39	L2	251	LYS
40	L3	142	ALA
40	L3	291	GLU
41	L4	14	GLU
41	L4	15	ALA
41	L4	146	PRO
41	L4	232	SER
41	L4	268	ALA
41	L4	269	SER

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Mol	Chain	Res	Type
41	L4	338	LYS
42	L5	57	ASN
42	L5	93	THR
42	L5	106	ALA
42	L5	137	ASP
44	L7	160	ARG
44	L7	163	LEU
45	L8	36	ILE
45	L8	39	ALA
45	L8	122	LYS
46	L9	190	ASP
47	M0	41	ALA
47	M0	63	GLU
47	M0	64	ALA
47	M0	194	GLY
48	M1	12	LEU
48	M1	24	GLY
48	M1	108	GLU
48	M1	115	LYS
48	M1	173	ASP
49	M3	47	ALA
49	M3	166	ALA
50	M4	28	SER
50	M4	29	ALA
50	M4	136	ALA
51	M5	74	PRO
51	M5	184	LYS
53	M7	161	ALA
53	M7	164	LYS
53	M7	182	ILE
54	M8	98	LYS
54	M8	149	ALA
55	M9	53	LYS
58	N2	31	ALA
58	N2	51	GLY
59	N3	131	SER
60	N4	97	LYS
61	N5	45	LYS
63	N7	35	SER
63	N7	102	GLU
64	N8	66	ALA
64	N8	96	LYS

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Mol	Chain	Res	Type
64	N8	115	LYS
67	O1	6	ASP
68	O2	27	ARG
68	O2	40	SER
68	O2	125	ARG
70	O4	82	ALA
71	O5	119	LYS
72	O6	34	SER
72	O6	64	SER
72	O6	98	ARG
75	O9	4	GLN
78	Q2	17	CYS
78	Q2	30	ALA
78	Q2	94	GLY
78	Q2	100	LYS
79	Q3	12	GLY
2	s0	8	ASP
2	s0	30	GLN
3	s1	21	VAL
3	s1	93	GLY
3	s1	106	THR
3	s1	147	ALA
3	s1	223	PHE
4	s2	106	ASP
4	s2	163	GLY
5	s3	179	GLN
6	s4	11	ARG
6	s4	94	ALA
6	s4	95	THR
7	s5	36	ALA
7	s5	74	ALA
7	s5	153	GLY
8	s6	138	ALA
8	s6	154	ARG
9	s7	34	LEU
10	s8	122	GLY
12	c0	82	LEU
13	c1	7	VAL
14	c2	22	VAL
14	c2	89	ILE
15	c3	137	PRO
15	c3	140	LYS

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Mol	Chain	Res	Type
16	c4	51	ASP
17	c5	6	ASN
17	c5	50	THR
17	c5	69	GLU
17	c5	80	MET
17	c5	132	GLY
17	c5	135	THR
19	c7	99	VAL
20	c8	61	LEU
20	c8	135	GLY
21	c9	28	LEU
26	d4	32	ARG
27	d5	38	HIS
27	d5	50	ILE
28	d6	28	LYS
30	d8	61	ARG
33	e1	81	LYS
33	e1	84	VAL
33	e1	100	LEU
33	e1	106	TYR
33	e1	127	GLY
35	sM	42	ALA
35	sM	47	ALA
39	l2	24	GLN
39	l2	56	ALA
39	l2	80	GLU
39	l2	143	GLU
39	l2	249	SER
40	l3	3	HIS
40	l3	385	LYS
40	l3	386	ASP
41	l4	142	VAL
41	l4	247	PHE
41	l4	342	LYS
42	l5	270	LYS
43	l6	20	LYS
43	l6	32	ALA
43	l6	97	ASN
45	l8	26	LEU
45	l8	39	ALA
45	l8	121	SER
45	l8	223	ALA

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Mol	Chain	Res	Type
45	l8	237	ILE
45	l8	240	ASN
46	l9	144	ILE
47	m0	25	ALA
47	m0	82	ARG
48	m1	39	GLN
48	m1	94	ARG
48	m1	115	LYS
49	m3	51	LEU
49	m3	129	ASN
51	m5	183	THR
51	m5	184	LYS
52	m6	16	VAL
53	m7	63	PHE
54	m8	21	SER
55	m9	35	ALA
55	m9	112	ALA
56	n0	129	ILE
57	n1	136	ARG
58	n2	48	GLY
60	n4	64	THR
60	n4	76	VAL
60	n4	83	THR
61	n5	38	LEU
61	n5	40	LEU
61	n5	45	LYS
61	n5	47	ALA
61	n5	48	SER
63	n7	16	GLY
63	n7	33	SER
63	n7	125	GLY
65	n9	39	PHE
66	o0	10	ILE
67	o1	85	ALA
68	o2	6	HIS
73	o7	85	LYS
78	q2	74	CYS
81	p0	68	SER
81	p0	102	SER
2	S0	36	TYR
2	S0	49	ASN
2	S0	196	SER

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Mol	Chain	Res	Type
3	S1	26	ARG
3	S1	58	SER
3	S1	147	ALA
3	S1	206	PRO
6	S4	96	ASN
6	S4	104	ASP
6	S4	231	GLN
7	S5	54	LYS
7	S5	127	GLN
8	S6	20	ASP
8	S6	69	LEU
9	S7	5	GLN
10	S8	59	ARG
10	S8	152	ILE
13	C1	145	ALA
13	C1	146	ALA
14	C2	89	ILE
14	C2	112	ALA
16	C4	18	ARG
16	C4	51	ASP
16	C4	75	GLY
16	C4	125	SER
17	C5	52	LYS
17	C5	101	ALA
18	C6	33	GLY
20	C8	8	GLN
20	C8	61	LEU
21	C9	29	GLU
21	C9	50	ALA
22	D0	21	LYS
22	D0	49	ASN
23	D1	10	GLU
23	D1	42	GLU
23	D1	44	ARG
25	D3	3	LYS
25	D3	92	CYS
25	D3	114	LYS
26	D4	34	ASN
26	D4	47	VAL
26	D4	54	ALA
28	D6	47	ALA
28	D6	63	ALA

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Mol	Chain	Res	Type
31	D9	11	PRO
32	E0	60	PRO
33	E1	87	THR
34	SR	98	GLU
34	SR	194	GLY
34	SR	249	ARG
35	SM	12	VAL
35	SM	15	ALA
35	SM	42	ALA
35	SM	87	THR
35	SM	139	GLU
39	L2	127	ALA
39	L2	141	PRO
39	L2	143	GLU
40	L3	347	SER
41	L4	270	SER
41	L4	293	SER
42	L5	110	LEU
42	L5	176	SER
42	L5	215	ASP
42	L5	259	LYS
42	L5	260	PHE
43	L6	150	LYS
45	L8	97	TYR
45	L8	114	ALA
45	L8	254	ASP
46	L9	2	LYS
46	L9	15	GLY
47	M0	207	GLU
48	M1	114	ILE
49	M3	129	ASN
49	M3	134	GLU
49	M3	136	GLU
51	M5	8	GLU
59	N3	69	LEU
62	N6	126	LEU
67	O1	82	GLU
68	O2	127	ALA
74	O8	19	ASP
79	Q3	50	GLY
79	Q3	51	ALA
79	Q3	91	GLU

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Mol	Chain	Res	Type
3	s1	82	ARG
5	s3	44	THR
5	s3	219	ALA
6	s4	57	ASN
6	s4	168	LYS
7	s5	56	ALA
8	s6	152	ASP
9	s7	30	SER
9	s7	74	GLN
10	s8	199	LYS
11	s9	167	ALA
12	c0	30	ALA
12	c0	35	ILE
13	c1	145	ALA
14	c2	54	ARG
14	c2	58	LEU
14	c2	108	ARG
14	c2	119	SER
14	c2	131	ASP
15	c3	29	SER
15	c3	139	TRP
17	c5	7	ALA
17	c5	14	THR
17	c5	68	PRO
18	c6	113	ASP
20	c8	18	LEU
20	c8	33	THR
20	c8	36	LYS
21	c9	33	TYR
22	d0	52	LYS
22	d0	96	PRO
23	d1	42	GLU
25	d3	70	LYS
26	d4	51	GLU
26	d4	53	ASP
26	d4	68	LYS
28	d6	13	LYS
28	d6	34	LYS
29	d7	75	GLU
32	e0	51	ASN
32	e0	54	ARG
32	e0	61	SER

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Mol	Chain	Res	Type
33	e1	85	TYR
33	e1	136	LYS
33	e1	145	HIS
34	sR	96	THR
34	sR	161	LYS
34	sR	226	ALA
35	sM	33	LYS
35	sM	50	ASN
35	sM	65	THR
39	l2	96	LEU
39	l2	130	SER
39	l2	142	ASP
40	l3	187	SER
41	l4	14	GLU
41	l4	90	PHE
41	l4	144	LYS
41	l4	145	ILE
41	l4	233	LEU
41	l4	305	ALA
42	l5	123	GLU
42	l5	260	PHE
43	l6	10	TYR
44	l7	158	LYS
44	l7	229	PHE
45	l8	203	VAL
47	m0	3	ARG
47	m0	176	LEU
47	m0	207	GLU
47	m0	219	ALA
48	m1	167	TYR
49	m3	13	HIS
49	m3	37	ASN
49	m3	45	LYS
49	m3	50	PRO
49	m3	135	ALA
50	m4	136	ALA
51	m5	81	TYR
51	m5	187	ARG
53	m7	75	GLU
54	m8	127	LEU
63	n7	34	LYS
63	n7	134	LEU

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Mol	Chain	Res	Type
64	n8	94	ALA
64	n8	129	PHE
65	n9	51	ALA
66	o0	104	LEU
67	o1	83	GLU
68	o2	122	PRO
68	o2	124	GLY
70	o4	14	ASN
70	o4	82	ALA
70	o4	93	PHE
71	o5	82	ALA
71	o5	84	LYS
72	o6	33	ALA
73	o7	67	LEU
73	o7	68	LYS
75	o9	44	TRP
79	q3	20	SER
81	p0	203	ASP
2	S0	103	THR
3	S1	38	PHE
3	S1	54	LEU
3	S1	210	ILE
4	S2	39	THR
4	S2	107	SER
4	S2	145	GLY
4	S2	150	GLN
4	S2	182	PRO
4	S2	208	GLU
4	S2	236	PRO
4	S2	248	SER
5	S3	89	GLU
5	S3	112	GLY
5	S3	217	ILE
6	S4	11	ARG
6	S4	26	CYS
6	S4	200	ARG
6	S4	213	SER
7	S5	51	VAL
7	S5	64	VAL
9	S7	29	ASN
9	S7	54	GLY
11	S9	16	LYS

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Mol	Chain	Res	Type
11	S9	150	LEU
14	C2	39	ASP
14	C2	106	ILE
14	C2	107	ASP
14	C2	126	TRP
16	C4	50	ALA
16	C4	86	THR
17	C5	9	LYS
17	C5	69	GLU
18	C6	113	ASP
19	C7	115	LEU
20	C8	145	ARG
21	C9	116	ILE
22	D0	17	GLN
22	D0	96	PRO
23	D1	82	VAL
25	D3	40	SER
25	D3	115	GLY
26	D4	49	LYS
27	D5	38	HIS
30	D8	20	GLY
32	E0	13	LYS
33	E1	102	VAL
33	E1	118	ARG
34	SR	48	THR
34	SR	51	ASP
34	SR	105	GLY
34	SR	163	ASP
41	L4	138	ARG
41	L4	341	SER
42	L5	249	ALA
42	L5	258	LYS
42	L5	271	LYS
46	L9	96	HIS
48	M1	64	LYS
48	M1	117	ASP
48	M1	152	HIS
48	M1	167	TYR
49	M3	63	VAL
49	M3	165	SER
50	M4	10	SER
51	M5	81	TYR

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Mol	Chain	Res	Type
53	M7	175	ARG
54	M8	162	ALA
56	N0	2	ALA
56	N0	24	LEU
60	N4	25	ASP
60	N4	77	LYS
61	N5	48	SER
62	N6	38	GLU
63	N7	103	GLN
64	N8	24	LYS
64	N8	47	LYS
64	N8	78	LEU
65	N9	25	LYS
68	O2	69	SER
68	O2	70	GLY
71	O5	75	TYR
71	O5	96	GLU
78	Q2	33	ALA
79	Q3	7	LYS
79	Q3	28	LYS
2	s0	139	VAL
2	s0	191	ARG
3	s1	60	ALA
3	s1	209	ASN
4	s2	150	GLN
4	s2	217	ALA
4	s2	234	PRO
4	s2	235	LEU
4	s2	238	SER
5	s3	45	LYS
5	s3	93	ASP
6	s4	117	GLU
6	s4	245	LYS
7	s5	55	ASP
7	s5	98	MET
9	s7	15	GLU
9	s7	133	THR
11	s9	130	THR
11	s9	147	MET
11	s9	162	SER
12	c0	23	ALA
12	c0	31	LYS

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Mol	Chain	Res	Type
12	c0	32	HIS
14	c2	26	ASP
14	c2	39	ASP
14	c2	66	VAL
14	c2	87	PRO
14	c2	106	ILE
16	c4	12	GLN
16	c4	37	GLU
16	c4	124	ASP
17	c5	130	ARG
18	c6	3	ALA
20	c8	7	GLU
20	c8	8	GLN
20	c8	91	ASP
20	c8	115	ARG
24	d2	56	HIS
24	d2	68	ARG
25	d3	101	GLU
26	d4	50	ALA
26	d4	52	LYS
30	d8	62	GLU
31	d9	11	PRO
32	e0	47	VAL
33	e1	112	GLY
33	e1	128	ALA
33	e1	146	SER
34	sR	186	PHE
35	sM	36	ASP
35	sM	43	ASP
35	sM	46	LYS
39	l2	125	ALA
39	l2	127	ALA
40	l3	140	ASP
41	l4	5	GLN
41	l4	16	THR
41	l4	132	ALA
41	l4	146	PRO
42	l5	224	LYS
44	l7	191	VAL
45	l8	69	LEU
47	m0	220	GLN
48	m1	95	ASN

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Mol	Chain	Res	Type
48	m1	108	GLU
48	m1	153	LYS
49	m3	60	ALA
53	m7	25	SER
54	m8	155	MET
56	n0	2	ALA
58	n2	91	ASP
60	n4	125	ALA
60	n4	134	GLN
61	n5	24	LEU
61	n5	25	LYS
62	n6	126	LEU
63	n7	103	GLN
67	o1	86	LYS
70	o4	47	CYS
78	q2	33	ALA
81	p0	33	VAL
3	S1	51	SER
3	S1	176	VAL
5	S3	196	ARG
6	S4	77	ARG
6	S4	93	ASP
6	S4	150	PRO
6	S4	245	LYS
8	S6	146	GLY
9	S7	73	VAL
9	S7	132	PRO
10	S8	10	LYS
10	S8	22	ARG
10	S8	154	SER
12	C0	26	ASP
12	C0	81	ASN
13	C1	40	LEU
14	C2	130	THR
15	C3	3	ARG
16	C4	114	ARG
16	C4	131	GLY
20	C8	102	ALA
21	C9	23	GLN
26	D4	11	LYS
28	D6	62	TYR
28	D6	64	LEU

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Mol	Chain	Res	Type
29	D7	75	GLU
30	D8	35	ASP
33	E1	83	LYS
33	E1	85	TYR
33	E1	99	LYS
33	E1	110	ALA
33	E1	148	TYR
34	SR	146	GLY
35	SM	39	PRO
35	SM	53	ARG
35	SM	101	ASP
39	L2	98	VAL
40	L3	4	ARG
40	L3	317	ILE
41	L4	5	GLN
41	L4	140	HIS
41	L4	292	SER
41	L4	339	LEU
45	L8	75	ILE
45	L8	157	VAL
47	M0	113	GLN
47	M0	202	LYS
49	M3	46	ILE
49	M3	51	LEU
49	M3	76	THR
50	M4	6	ILE
52	M6	16	VAL
52	M6	89	SER
54	M8	41	ASP
63	N7	36	HIS
64	N8	91	LEU
67	O1	7	VAL
69	O3	91	ALA
72	O6	21	THR
72	O6	78	GLY
76	Q0	79	GLU
2	s0	10	THR
2	s0	103	THR
2	s0	109	ASN
2	s0	194	PRO
3	s1	22	ASP
3	s1	59	ASP

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Mol	Chain	Res	Type
3	s1	129	THR
3	s1	224	ASP
6	s4	30	ARG
6	s4	90	ILE
6	s4	213	SER
7	s5	29	ILE
8	s6	70	PRO
10	s8	62	THR
10	s8	78	ILE
10	s8	101	ILE
11	s9	150	LEU
13	c1	55	ASP
14	c2	90	LYS
15	c3	22	ALA
16	c4	39	ILE
16	c4	50	ALA
17	c5	71	GLU
18	c6	40	GLU
19	c7	62	GLN
19	c7	86	PRO
19	c7	96	SER
19	c7	98	GLY
22	d0	17	GLN
22	d0	51	VAL
23	d1	10	GLU
25	d3	41	SER
28	d6	8	ASN
28	d6	35	ALA
29	d7	58	SER
30	d8	33	LEU
34	sR	281	TYR
35	sM	63	ASP
39	l2	13	GLY
40	l3	333	LYS
41	l4	220	ARG
41	l4	339	LEU
42	l5	265	TYR
42	l5	296	GLN
45	l8	70	LYS
46	l9	167	VAL
47	m0	204	GLY
48	m1	12	LEU

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Mol	Chain	Res	Type
48	m1	114	ILE
49	m3	62	THR
50	m4	135	LEU
51	m5	42	PRO
51	m5	68	ARG
51	m5	74	PRO
54	m8	43	PRO
63	n7	70	PRO
66	o0	101	LEU
73	o7	86	ALA
74	o8	37	PRO
79	q3	51	ALA
3	S1	129	THR
4	S2	239	PRO
6	S4	204	GLY
14	C2	131	ASP
20	C8	82	PRO
22	D0	55	PRO
23	D1	46	ILE
25	D3	41	SER
25	D3	96	VAL
26	D4	36	SER
33	E1	100	LEU
39	L2	246	LEU
41	L4	23	PRO
42	L5	107	ARG
42	L5	136	GLU
44	L7	178	ILE
45	L8	30	THR
45	L8	79	GLN
47	M0	24	ARG
48	M1	95	ASN
51	M5	94	TYR
54	M8	99	THR
57	N1	18	ASP
57	N1	123	GLY
63	N7	124	ALA
68	O2	12	LYS
72	O6	3	VAL
78	Q2	34	SER
5	s3	203	PRO
8	s6	69	LEU

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Mol	Chain	Res	Type
12	c0	24	LYS
13	c1	129	ARG
14	c2	40	GLY
14	c2	82	PRO
16	c4	48	VAL
18	c6	4	VAL
18	c6	97	VAL
21	c9	51	GLU
26	d4	77	ASN
31	d9	22	ARG
33	e1	148	TYR
34	sR	97	GLY
41	l4	91	GLY
44	l7	178	ILE
47	m0	194	GLY
62	n6	49	PRO
64	n8	56	VAL
65	n9	24	PRO
70	o4	78	GLY
72	o6	12	ASN
79	q3	4	ARG
79	q3	17	ARG
3	S1	48	VAL
10	S8	186	GLY
13	C1	130	PRO
34	SR	49	GLY
47	M0	117	GLY
48	M1	65	ILE
49	M3	130	GLY
52	M6	145	VAL
70	O4	77	GLY
12	c0	3	MET
17	c5	125	PRO
23	d1	77	GLY
40	l3	141	GLY
41	l4	190	GLY
2	S0	139	VAL
14	C2	22	VAL
14	C2	66	VAL
16	C4	39	ILE
28	D6	59	TYR
34	SR	15	GLY

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Mol	Chain	Res	Type
42	L5	139	PRO
44	L7	91	GLY
45	L8	218	ILE
9	s7	185	ILE
14	c2	63	VAL
15	c3	60	VAL
16	c4	131	GLY
42	l5	125	VAL
58	n2	30	PRO
61	n5	52	PRO
63	n7	36	HIS
8	S6	162	VAL
9	S7	144	VAL
9	S7	162	ILE
14	C2	87	PRO
20	C8	125	ILE
23	D1	6	GLY
27	D5	88	ILE
33	E1	91	ILE
53	M7	67	ILE
60	N4	76	VAL
6	s4	107	GLY
29	d7	62	ILE
34	sR	63	GLY
43	l6	171	PRO
54	m8	97	PRO
64	n8	28	HIS
72	o6	61	ILE
81	p0	80	VAL
7	S5	204	GLY
26	D4	95	GLY
30	D8	6	PRO
44	L7	191	VAL
45	L8	167	PRO
60	N4	90	ILE
5	s3	43	PRO
19	c7	9	VAL
30	d8	20	GLY
42	l5	255	PRO
15	C3	150	VAL
28	D6	58	VAL
71	O5	4	VAL

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Mol	Chain	Res	Type
28	d6	59	TYR
34	sR	15	GLY
40	l3	186	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/209 (78%)	137 (84%)	27 (16%)	2	11
2	s0	173/209 (83%)	143 (83%)	30 (17%)	2	9
3	S1	191/223 (86%)	163 (85%)	28 (15%)	3	14
3	s1	192/223 (86%)	160 (83%)	32 (17%)	2	10
4	S2	176/204 (86%)	140 (80%)	36 (20%)	1	5
4	s2	176/204 (86%)	137 (78%)	39 (22%)	1	4
5	S3	182/194 (94%)	144 (79%)	38 (21%)	1	5
5	s3	182/194 (94%)	161 (88%)	21 (12%)	5	23
6	S4	221/221 (100%)	182 (82%)	39 (18%)	2	9
6	s4	221/221 (100%)	182 (82%)	39 (18%)	2	9
7	S5	173/190 (91%)	139 (80%)	34 (20%)	1	6
7	s5	173/190 (91%)	140 (81%)	33 (19%)	1	7
8	S6	188/201 (94%)	155 (82%)	33 (18%)	2	9
8	s6	187/201 (93%)	154 (82%)	33 (18%)	2	9
9	S7	165/169 (98%)	130 (79%)	35 (21%)	1	5
9	s7	166/169 (98%)	135 (81%)	31 (19%)	1	7
10	S8	150/161 (93%)	130 (87%)	20 (13%)	4	17
10	s8	150/161 (93%)	130 (87%)	20 (13%)	4	17
11	S9	158/165 (96%)	129 (82%)	29 (18%)	1	8
11	s9	158/165 (96%)	134 (85%)	24 (15%)	3	13
12	C0	77/78 (99%)	63 (82%)	14 (18%)	2	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	c0	73/78 (94%)	62 (85%)	11 (15%)	3	13
13	C1	129/129 (100%)	109 (84%)	20 (16%)	2	12
13	c1	129/129 (100%)	104 (81%)	25 (19%)	1	7
14	C2	88/118 (75%)	71 (81%)	17 (19%)	1	7
14	c2	88/118 (75%)	68 (77%)	20 (23%)	1	4
15	C3	127/127 (100%)	107 (84%)	20 (16%)	2	12
15	c3	127/127 (100%)	98 (77%)	29 (23%)	1	4
16	C4	81/104 (78%)	63 (78%)	18 (22%)	1	4
16	c4	97/104 (93%)	76 (78%)	21 (22%)	1	5
17	C5	101/117 (86%)	86 (85%)	15 (15%)	3	13
17	c5	103/117 (88%)	87 (84%)	16 (16%)	2	12
18	C6	117/118 (99%)	97 (83%)	20 (17%)	2	10
18	c6	118/118 (100%)	99 (84%)	19 (16%)	2	11
19	C7	94/124 (76%)	75 (80%)	19 (20%)	1	5
19	c7	106/124 (86%)	92 (87%)	14 (13%)	4	17
20	C8	128/128 (100%)	99 (77%)	29 (23%)	1	4
20	c8	128/128 (100%)	98 (77%)	30 (23%)	1	4
21	C9	115/115 (100%)	94 (82%)	21 (18%)	2	8
21	c9	115/115 (100%)	96 (84%)	19 (16%)	2	11
22	D0	100/113 (88%)	83 (83%)	17 (17%)	2	10
22	d0	103/113 (91%)	74 (72%)	29 (28%)	0	1
23	D1	74/74 (100%)	60 (81%)	14 (19%)	1	7
23	d1	74/74 (100%)	62 (84%)	12 (16%)	2	11
24	D2	110/110 (100%)	91 (83%)	19 (17%)	2	9
24	d2	110/110 (100%)	93 (84%)	17 (16%)	2	12
25	D3	119/119 (100%)	102 (86%)	17 (14%)	3	14
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2	9
26	D4	112/112 (100%)	94 (84%)	18 (16%)	2	11
26	d4	112/112 (100%)	94 (84%)	18 (16%)	2	11
27	D5	61/88 (69%)	45 (74%)	16 (26%)	0	2
27	d5	61/88 (69%)	54 (88%)	7 (12%)	5	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	D6	83/83 (100%)	61 (74%)	22 (26%)	0	2
28	d6	83/83 (100%)	72 (87%)	11 (13%)	4	17
29	D7	70/70 (100%)	59 (84%)	11 (16%)	2	12
29	d7	70/70 (100%)	58 (83%)	12 (17%)	2	10
30	D8	56/59 (95%)	47 (84%)	9 (16%)	2	11
30	d8	56/59 (95%)	46 (82%)	10 (18%)	2	9
31	D9	47/48 (98%)	40 (85%)	7 (15%)	3	13
31	d9	47/48 (98%)	41 (87%)	6 (13%)	4	18
32	E0	51/53 (96%)	43 (84%)	8 (16%)	2	12
32	e0	53/53 (100%)	37 (70%)	16 (30%)	0	0
33	E1	62/66 (94%)	49 (79%)	13 (21%)	1	5
33	e1	66/66 (100%)	54 (82%)	12 (18%)	2	8
34	SR	259/261 (99%)	222 (86%)	37 (14%)	3	14
34	sR	261/261 (100%)	241 (92%)	20 (8%)	12	38
35	SM	97/115 (84%)	74 (76%)	23 (24%)	1	3
35	sM	54/115 (47%)	43 (80%)	11 (20%)	1	5
39	L2	193/195 (99%)	148 (77%)	45 (23%)	1	4
39	l2	194/195 (100%)	151 (78%)	43 (22%)	1	4
40	L3	320/322 (99%)	247 (77%)	73 (23%)	1	4
40	l3	322/322 (100%)	262 (81%)	60 (19%)	1	8
41	L4	288/288 (100%)	232 (81%)	56 (19%)	1	7
41	l4	288/288 (100%)	235 (82%)	53 (18%)	1	8
42	L5	244/244 (100%)	205 (84%)	39 (16%)	2	12
42	l5	243/244 (100%)	196 (81%)	47 (19%)	1	7
43	L6	134/152 (88%)	110 (82%)	24 (18%)	2	9
43	l6	135/152 (89%)	111 (82%)	24 (18%)	2	9
44	L7	186/204 (91%)	164 (88%)	22 (12%)	5	21
44	l7	187/204 (92%)	161 (86%)	26 (14%)	3	15
45	L8	187/207 (90%)	159 (85%)	28 (15%)	3	13
45	l8	177/207 (86%)	141 (80%)	36 (20%)	1	5
46	L9	171/171 (100%)	131 (77%)	40 (23%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	l9	171/171 (100%)	134 (78%)	37 (22%)	1	5
47	M0	177/186 (95%)	144 (81%)	33 (19%)	1	8
47	m0	182/186 (98%)	149 (82%)	33 (18%)	2	8
48	M1	147/149 (99%)	115 (78%)	32 (22%)	1	5
48	m1	147/149 (99%)	113 (77%)	34 (23%)	1	4
49	M3	154/158 (98%)	132 (86%)	22 (14%)	3	14
49	m3	154/158 (98%)	134 (87%)	20 (13%)	4	18
50	M4	107/108 (99%)	89 (83%)	18 (17%)	2	10
50	m4	108/108 (100%)	87 (81%)	21 (19%)	1	7
51	M5	175/175 (100%)	140 (80%)	35 (20%)	1	6
51	m5	175/175 (100%)	144 (82%)	31 (18%)	2	9
52	M6	160/161 (99%)	135 (84%)	25 (16%)	2	12
52	m6	160/161 (99%)	133 (83%)	27 (17%)	2	10
53	M7	140/145 (97%)	116 (83%)	24 (17%)	2	10
53	m7	125/145 (86%)	105 (84%)	20 (16%)	2	12
54	M8	150/150 (100%)	123 (82%)	27 (18%)	2	8
54	m8	150/150 (100%)	123 (82%)	27 (18%)	2	8
55	M9	153/153 (100%)	128 (84%)	25 (16%)	2	11
55	m9	153/153 (100%)	118 (77%)	35 (23%)	1	4
56	N0	156/156 (100%)	127 (81%)	29 (19%)	1	8
56	n0	156/156 (100%)	125 (80%)	31 (20%)	1	6
57	N1	136/136 (100%)	105 (77%)	31 (23%)	1	4
57	n1	136/136 (100%)	106 (78%)	30 (22%)	1	4
58	N2	87/106 (82%)	76 (87%)	11 (13%)	4	19
58	n2	85/106 (80%)	71 (84%)	14 (16%)	2	11
59	N3	104/104 (100%)	85 (82%)	19 (18%)	2	8
59	n3	104/104 (100%)	92 (88%)	12 (12%)	5	23
60	N4	57/129 (44%)	51 (90%)	6 (10%)	6	26
60	n4	114/129 (88%)	97 (85%)	17 (15%)	3	13
61	N5	104/117 (89%)	79 (76%)	25 (24%)	1	3
61	n5	104/117 (89%)	85 (82%)	19 (18%)	2	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
62	N6	109/109 (100%)	87 (80%)	22 (20%)	1	5
62	n6	109/109 (100%)	84 (77%)	25 (23%)	1	4
63	N7	115/115 (100%)	91 (79%)	24 (21%)	1	5
63	n7	115/115 (100%)	94 (82%)	21 (18%)	2	8
64	N8	118/118 (100%)	95 (80%)	23 (20%)	1	6
64	n8	118/118 (100%)	98 (83%)	20 (17%)	2	10
65	N9	46/46 (100%)	36 (78%)	10 (22%)	1	5
65	n9	46/46 (100%)	37 (80%)	9 (20%)	1	6
66	O0	81/87 (93%)	62 (76%)	19 (24%)	1	3
66	o0	84/87 (97%)	67 (80%)	17 (20%)	1	5
67	O1	92/96 (96%)	72 (78%)	20 (22%)	1	5
67	o1	96/96 (100%)	77 (80%)	19 (20%)	1	6
68	O2	109/110 (99%)	91 (84%)	18 (16%)	2	11
68	o2	109/110 (99%)	85 (78%)	24 (22%)	1	4
69	O3	90/90 (100%)	80 (89%)	10 (11%)	6	24
69	o3	90/90 (100%)	78 (87%)	12 (13%)	4	17
70	O4	95/102 (93%)	78 (82%)	17 (18%)	2	9
70	o4	95/102 (93%)	79 (83%)	16 (17%)	2	10
71	O5	104/104 (100%)	86 (83%)	18 (17%)	2	9
71	o5	104/104 (100%)	82 (79%)	22 (21%)	1	5
72	O6	81/81 (100%)	60 (74%)	21 (26%)	0	2
72	o6	81/81 (100%)	53 (65%)	28 (35%)	0	0
73	O7	70/70 (100%)	57 (81%)	13 (19%)	1	8
73	o7	70/70 (100%)	59 (84%)	11 (16%)	2	12
74	O8	68/68 (100%)	55 (81%)	13 (19%)	1	7
74	o8	68/68 (100%)	58 (85%)	10 (15%)	3	14
75	O9	45/45 (100%)	35 (78%)	10 (22%)	1	4
75	o9	45/45 (100%)	41 (91%)	4 (9%)	9	33
76	Q0	47/47 (100%)	40 (85%)	7 (15%)	3	13
76	q0	47/47 (100%)	34 (72%)	13 (28%)	0	1
77	Q1	23/23 (100%)	15 (65%)	8 (35%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
77	q1	23/23 (100%)	16 (70%)	7 (30%)	0	0
78	Q2	90/90 (100%)	71 (79%)	19 (21%)	1	5
78	q2	90/90 (100%)	73 (81%)	17 (19%)	1	7
79	Q3	71/71 (100%)	56 (79%)	15 (21%)	1	5
79	q3	71/71 (100%)	57 (80%)	14 (20%)	1	6
81	p0	105/253 (42%)	87 (83%)	18 (17%)	2	10
All	All	18777/19961 (94%)	15346 (82%)	3431 (18%)	2	8

All (3431) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	6	THR
2	S0	18	LEU
2	S0	39	ASN
2	S0	49	ASN
2	S0	50	VAL
2	S0	57	LEU
2	S0	84	ARG
2	S0	87	LEU
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG
2	S0	110	TYR
2	S0	111	ILE
2	S0	112	THR
2	S0	137	SER
2	S0	154	GLU
2	S0	157	ASP
2	S0	158	VAL
2	S0	164	ASN
2	S0	165	ARG
2	S0	168	HIS
2	S0	170	ILE
2	S0	172	LEU
2	S0	177	LEU
2	S0	188	LEU
2	S0	196	SER
2	S0	198	MET
3	S1	20	VAL
3	S1	25	THR

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Mol	Chain	Res	Type
3	S1	29	TRP
3	S1	30	PHE
3	S1	46	THR
3	S1	61	LEU
3	S1	65	VAL
3	S1	70	LEU
3	S1	74	GLN
3	S1	77	GLU
3	S1	78	ASP
3	S1	81	PHE
3	S1	83	LYS
3	S1	97	LEU
3	S1	137	ILE
3	S1	154	SER
3	S1	174	LYS
3	S1	176	VAL
3	S1	180	THR
3	S1	181	LEU
3	S1	184	LEU
3	S1	193	ILE
3	S1	202	LYS
3	S1	214	LYS
3	S1	215	VAL
3	S1	218	LEU
3	S1	223	PHE
3	S1	225	VAL
4	S2	41	LEU
4	S2	53	ILE
4	S2	64	LYS
4	S2	68	ILE
4	S2	72	LEU
4	S2	76	LEU
4	S2	80	VAL
4	S2	89	GLN
4	S2	90	THR
4	S2	94	GLN
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	99	LYS
4	S2	103	VAL
4	S2	111	VAL

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Mol	Chain	Res	Type
4	S2	113	LEU
4	S2	117	THR
4	S2	134	LEU
4	S2	137	ILE
4	S2	139	ILE
4	S2	141	ARG
4	S2	148	LEU
4	S2	159	THR
4	S2	170	ILE
4	S2	185	LYS
4	S2	186	LYS
4	S2	189	GLN
4	S2	208	GLU
4	S2	221	THR
4	S2	222	TYR
4	S2	225	LEU
4	S2	226	THR
4	S2	235	LEU
4	S2	237	VAL
4	S2	244	SER
5	S3	4	LEU
5	S3	5	ILE
5	S3	7	LYS
5	S3	21	LEU
5	S3	23	GLU
5	S3	41	VAL
5	S3	59	LEU
5	S3	61	GLU
5	S3	65	ARG
5	S3	66	ILE
5	S3	84	ILE
5	S3	93	ASP
5	S3	103	GLU
5	S3	105	MET
5	S3	108	LYS
5	S3	111	ASN
5	S3	113	LEU
5	S3	117	ARG
5	S3	128	GLU
5	S3	142	LEU
5	S3	151	LYS
5	S3	158	ILE

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Mol	Chain	Res	Type
5	S3	168	ILE
5	S3	172	THR
5	S3	175	VAL
5	S3	176	LEU
5	S3	177	MET
5	S3	178	ARG
5	S3	181	VAL
5	S3	182	LEU
5	S3	190	ARG
5	S3	195	SER
5	S3	207	THR
5	S3	209	ILE
5	S3	212	LYS
5	S3	217	ILE
5	S3	222	VAL
5	S3	223	LYS
6	S4	6	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	23	LEU
6	S4	38	LEU
6	S4	42	LEU
6	S4	45	ILE
6	S4	62	LYS
6	S4	65	LEU
6	S4	72	VAL
6	S4	77	ARG
6	S4	92	LEU
6	S4	95	THR
6	S4	105	VAL
6	S4	109	PHE
6	S4	113	ARG
6	S4	115	THR
6	S4	116	ASP
6	S4	123	LEU
6	S4	126	VAL
6	S4	129	VAL
6	S4	131	LEU
6	S4	160	VAL
6	S4	180	LEU
6	S4	181	VAL
6	S4	187	ARG

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Mol	Chain	Res	Type
6	S4	192	ILE
6	S4	198	LYS
6	S4	211	LYS
6	S4	215	ASP
6	S4	219	VAL
6	S4	221	ARG
6	S4	227	VAL
6	S4	236	ILE
6	S4	240	LYS
6	S4	242	LYS
6	S4	246	LEU
6	S4	248	ILE
6	S4	259	GLN
7	S5	25	LEU
7	S5	32	GLU
7	S5	38	THR
7	S5	40	ILE
7	S5	41	LYS
7	S5	45	LYS
7	S5	47	SER
7	S5	48	PHE
7	S5	52	GLU
7	S5	53	VAL
7	S5	63	GLN
7	S5	66	GLN
7	S5	79	ASN
7	S5	84	LYS
7	S5	86	GLN
7	S5	89	ILE
7	S5	93	LEU
7	S5	98	MET
7	S5	119	ASP
7	S5	122	ASN
7	S5	126	ASP
7	S5	146	THR
7	S5	147	THR
7	S5	156	ARG
7	S5	157	ARG
7	S5	160	VAL
7	S5	162	VAL
7	S5	163	SER
7	S5	187	ILE

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Mol	Chain	Res	Type
7	S5	189	THR
7	S5	194	LEU
7	S5	216	GLU
7	S5	223	SER
7	S5	225	ARG
8	S6	15	THR
8	S6	20	ASP
8	S6	21	GLU
8	S6	25	ARG
8	S6	37	ASP
8	S6	43	ASP
8	S6	44	GLU
8	S6	67	VAL
8	S6	68	LEU
8	S6	69	LEU
8	S6	71	THR
8	S6	76	LEU
8	S6	79	LYS
8	S6	82	SER
8	S6	89	ASP
8	S6	91	GLU
8	S6	109	LEU
8	S6	120	GLU
8	S6	124	LEU
8	S6	125	THR
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL
8	S6	133	LEU
8	S6	151	ASP
8	S6	155	ASP
8	S6	158	ILE
8	S6	177	ARG
8	S6	179	VAL
8	S6	201	GLN
8	S6	216	LEU
8	S6	223	LYS
9	S7	15	GLU
9	S7	16	LEU
9	S7	28	GLU
9	S7	37	GLU

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Mol	Chain	Res	Type
9	S7	38	LEU
9	S7	42	GLN
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	51	VAL
9	S7	55	LYS
9	S7	60	ILE
9	S7	67	LEU
9	S7	70	PHE
9	S7	73	VAL
9	S7	74	GLN
9	S7	76	LYS
9	S7	77	LEU
9	S7	87	ASP
9	S7	91	ILE
9	S7	97	ARG
9	S7	104	ARG
9	S7	105	THR
9	S7	110	GLN
9	S7	114	ARG
9	S7	116	ARG
9	S7	118	LEU
9	S7	126	LEU
9	S7	130	VAL
9	S7	136	VAL
9	S7	144	VAL
9	S7	158	ASP
9	S7	174	ASN
9	S7	184	GLU
9	S7	185	ILE
10	S8	8	ARG
10	S8	21	PHE
10	S8	29	LEU
10	S8	36	THR
10	S8	37	LYS
10	S8	46	VAL
10	S8	56	ARG
10	S8	58	LEU
10	S8	60	ILE
10	S8	70	GLU
10	S8	72	ILE

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Mol	Chain	Res	Type
10	S8	138	ASN
10	S8	151	LYS
10	S8	152	ILE
10	S8	155	SER
10	S8	158	SER
10	S8	184	LEU
10	S8	185	GLU
10	S8	187	GLU
10	S8	196	LEU
11	S9	3	ARG
11	S9	6	ARG
11	S9	7	THR
11	S9	14	THR
11	S9	22	SER
11	S9	28	LEU
11	S9	49	LEU
11	S9	61	THR
11	S9	63	ASP
11	S9	78	ARG
11	S9	80	LEU
11	S9	88	GLU
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	97	LEU
11	S9	99	LEU
11	S9	110	GLN
11	S9	134	ILE
11	S9	138	LYS
11	S9	140	ILE
11	S9	141	VAL
11	S9	149	ARG
11	S9	161	THR
11	S9	162	SER
11	S9	171	ARG
11	S9	172	VAL
11	S9	182	GLU
11	S9	186	GLU
12	C0	1	MET
12	C0	8	ARG
12	C0	9	ASN
12	C0	20	VAL

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Mol	Chain	Res	Type
12	C0	27	PHE
12	C0	29	GLN
12	C0	32	HIS
12	C0	40	LEU
12	C0	46	LEU
12	C0	55	VAL
12	C0	56	LYS
12	C0	76	LEU
12	C0	81	ASN
12	C0	82	LEU
13	C1	4	GLU
13	C1	8	GLN
13	C1	16	GLN
13	C1	21	ASN
13	C1	37	ASN
13	C1	40	LEU
13	C1	44	THR
13	C1	67	ARG
13	C1	70	ILE
13	C1	72	THR
13	C1	79	LYS
13	C1	80	MET
13	C1	83	THR
13	C1	91	LEU
13	C1	94	ILE
13	C1	99	ARG
13	C1	109	VAL
13	C1	125	VAL
13	C1	131	ILE
13	C1	140	VAL
14	C2	28	LEU
14	C2	33	ARG
14	C2	37	VAL
14	C2	41	LEU
14	C2	43	ARG
14	C2	50	LYS
14	C2	52	LEU
14	C2	54	ARG
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	86	VAL

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Mol	Chain	Res	Type
14	C2	89	ILE
14	C2	103	LEU
14	C2	116	VAL
14	C2	132	GLU
14	C2	135	MET
15	C3	3	ARG
15	C3	9	LYS
15	C3	19	SER
15	C3	21	ASN
15	C3	27	LYS
15	C3	33	VAL
15	C3	56	ASP
15	C3	66	ILE
15	C3	88	LEU
15	C3	98	VAL
15	C3	102	LEU
15	C3	105	ASN
15	C3	106	ARG
15	C3	114	ARG
15	C3	115	LEU
15	C3	120	SER
15	C3	125	LEU
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
16	C4	12	GLN
16	C4	13	VAL
16	C4	25	ASP
16	C4	26	THR
16	C4	30	VAL
16	C4	39	ILE
16	C4	42	VAL
16	C4	76	ILE
16	C4	81	VAL
16	C4	92	LYS
16	C4	99	GLN
16	C4	103	ARG
16	C4	107	ARG
16	C4	115	ILE
16	C4	123	SER
16	C4	125	SER
16	C4	126	THR

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Mol	Chain	Res	Type
16	C4	137	LEU
17	C5	11	VAL
17	C5	14	THR
17	C5	22	LEU
17	C5	26	LEU
17	C5	31	GLU
17	C5	34	VAL
17	C5	44	ARG
17	C5	52	LYS
17	C5	60	LEU
17	C5	65	LEU
17	C5	84	ILE
17	C5	86	VAL
17	C5	87	PRO
17	C5	110	GLU
17	C5	121	ILE
18	C6	4	VAL
18	C6	19	VAL
18	C6	26	LYS
18	C6	29	ILE
18	C6	39	VAL
18	C6	43	ILE
18	C6	53	LEU
18	C6	57	LEU
18	C6	65	ILE
18	C6	66	ARG
18	C6	69	VAL
18	C6	70	THR
18	C6	106	LYS
18	C6	109	PHE
18	C6	114	ARG
18	C6	116	LEU
18	C6	123	ARG
18	C6	127	LYS
18	C6	128	LYS
18	C6	137	ARG
19	C7	25	THR
19	C7	29	GLN
19	C7	35	CYS
19	C7	38	ILE
19	C7	40	THR
19	C7	43	SER

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Mol	Chain	Res	Type
19	C7	46	LEU
19	C7	62	GLN
19	C7	69	ILE
19	C7	72	LYS
19	C7	79	GLU
19	C7	83	GLN
19	C7	88	VAL
19	C7	105	GLN
19	C7	107	SER
19	C7	109	LEU
19	C7	113	LEU
19	C7	115	LEU
19	C7	119	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	11	PHE
20	C8	12	GLN
20	C8	13	HIS
20	C8	14	ILE
20	C8	15	LEU
20	C8	20	THR
20	C8	25	ASN
20	C8	26	ILE
20	C8	28	ILE
20	C8	38	VAL
20	C8	40	ARG
20	C8	46	VAL
20	C8	53	ASP
20	C8	54	LEU
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	77	THR
20	C8	80	LYS
20	C8	92	ILE
20	C8	101	LEU
20	C8	105	VAL
20	C8	116	LEU
20	C8	119	ILE
20	C8	132	ARG
20	C8	136	GLN
20	C8	138	THR

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Mol	Chain	Res	Type
21	C9	4	VAL
21	C9	6	VAL
21	C9	13	ASP
21	C9	22	LEU
21	C9	28	LEU
21	C9	34	VAL
21	C9	35	ASP
21	C9	36	ILE
21	C9	37	VAL
21	C9	57	ARG
21	C9	67	MET
21	C9	70	GLN
21	C9	71	VAL
21	C9	94	ILE
21	C9	104	VAL
21	C9	125	SER
21	C9	126	GLU
21	C9	131	ASP
21	C9	132	LEU
21	C9	139	THR
21	C9	144	GLU
22	D0	18	GLN
22	D0	20	ILE
22	D0	23	ARG
22	D0	27	THR
22	D0	34	LEU
22	D0	35	GLU
22	D0	47	GLN
22	D0	50	LEU
22	D0	51	VAL
22	D0	66	SER
22	D0	74	GLU
22	D0	76	SER
22	D0	81	THR
22	D0	89	ARG
22	D0	105	GLN
22	D0	108	ILE
22	D0	116	VAL
23	D1	5	LYS
23	D1	7	GLN
23	D1	9	VAL
23	D1	11	LEU

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Mol	Chain	Res	Type
23	D1	25	LYS
23	D1	33	GLN
23	D1	40	ASP
23	D1	41	GLU
23	D1	49	GLU
23	D1	76	ASP
23	D1	78	LEU
23	D1	79	LEU
23	D1	80	LYS
23	D1	87	ARG
24	D2	4	SER
24	D2	24	GLN
24	D2	25	VAL
24	D2	26	LEU
24	D2	27	ILE
24	D2	33	VAL
24	D2	43	LYS
24	D2	47	ILE
24	D2	53	ILE
24	D2	65	LEU
24	D2	66	ASN
24	D2	97	ARG
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	111	MET
24	D2	121	VAL
24	D2	125	ILE
24	D2	129	VAL
25	D3	9	LEU
25	D3	27	ASN
25	D3	31	LYS
25	D3	47	SER
25	D3	69	ARG
25	D3	72	VAL
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	114	LYS
25	D3	117	ILE
25	D3	130	VAL
25	D3	132	LEU

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Mol	Chain	Res	Type
25	D3	133	LEU
25	D3	138	GLU
25	D3	140	LYS
25	D3	144	ARG
26	D4	8	ARG
26	D4	29	HIS
26	D4	32	ARG
26	D4	44	LEU
26	D4	47	VAL
26	D4	51	GLU
26	D4	57	VAL
26	D4	62	THR
26	D4	75	VAL
26	D4	84	LYS
26	D4	96	LEU
26	D4	99	LYS
26	D4	100	VAL
26	D4	102	LYS
26	D4	124	ARG
26	D4	125	LEU
26	D4	127	LYS
26	D4	128	LYS
27	D5	42	LEU
27	D5	51	LEU
27	D5	58	ARG
27	D5	62	VAL
27	D5	63	SER
27	D5	65	LEU
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	78	ILE
27	D5	85	LYS
27	D5	92	ILE
27	D5	95	HIS
27	D5	98	GLN
27	D5	100	ILE
27	D5	102	THR
28	D6	5	ARG
28	D6	12	LYS
28	D6	21	VAL
28	D6	30	ILE

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Mol	Chain	Res	Type
28	D6	36	ILE
28	D6	41	ILE
28	D6	44	ILE
28	D6	45	VAL
28	D6	50	VAL
28	D6	55	GLU
28	D6	58	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	87	ARG
28	D6	88	SER
28	D6	91	ASP
29	D7	3	LEU
29	D7	11	THR
29	D7	15	GLU
29	D7	23	THR
29	D7	33	LEU
29	D7	34	ASP
29	D7	41	LEU
29	D7	60	SER
29	D7	61	THR
29	D7	77	THR
29	D7	78	SER
30	D8	19	THR
30	D8	31	GLU
30	D8	32	PHE
30	D8	33	LEU
30	D8	39	THR
30	D8	40	ILE
30	D8	48	VAL
30	D8	52	ASP
30	D8	58	GLU
31	D9	12	ARG
31	D9	19	ARG
31	D9	21	CYS
31	D9	25	SER

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Mol	Chain	Res	Type
31	D9	30	LEU
31	D9	32	ARG
31	D9	36	LEU
32	E0	20	LYS
32	E0	22	GLU
32	E0	36	LYS
32	E0	39	LEU
32	E0	42	ARG
32	E0	47	VAL
32	E0	50	VAL
32	E0	56	MET
33	E1	86	THR
33	E1	97	LYS
33	E1	98	VAL
33	E1	102	VAL
33	E1	108	VAL
33	E1	113	LYS
33	E1	130	VAL
33	E1	137	ASP
33	E1	138	ARG
33	E1	139	LEU
33	E1	147	VAL
33	E1	150	VAL
33	E1	151	ASN
34	SR	6	VAL
34	SR	10	ARG
34	SR	32	LEU
34	SR	37	SER
34	SR	45	TRP
34	SR	50	ASP
34	SR	52	GLN
34	SR	66	HIS
34	SR	74	THR
34	SR	76	ASP
34	SR	94	VAL
34	SR	100	TYR
34	SR	102	ARG
34	SR	109	ASP
34	SR	116	ASP
34	SR	117	LYS
34	SR	131	ILE
34	SR	133	VAL

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Mol	Chain	Res	Type
34	SR	134	TRP
34	SR	136	ILE
34	SR	141	LEU
34	SR	144	LEU
34	SR	148	ASN
34	SR	149	ASP
34	SR	154	VAL
34	SR	165	ASP
34	SR	193	ILE
34	SR	196	ASN
34	SR	222	LEU
34	SR	223	TRP
34	SR	238	ASP
34	SR	245	PHE
34	SR	248	ASN
34	SR	266	ASP
34	SR	277	GLU
34	SR	308	ASN
34	SR	317	THR
35	SM	24	GLU
35	SM	34	LYS
35	SM	37	VAL
35	SM	41	SER
35	SM	46	LYS
35	SM	48	ARG
35	SM	53	ARG
35	SM	55	SER
35	SM	61	ILE
35	SM	64	LYS
35	SM	68	ARG
35	SM	77	THR
35	SM	78	ASP
35	SM	84	LYS
35	SM	91	THR
35	SM	92	ASP
35	SM	100	THR
35	SM	102	THR
35	SM	105	LYS
35	SM	106	VAL
35	SM	108	GLN
35	SM	121	LYS
35	SM	131	ILE

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Mol	Chain	Res	Type
39	L2	8	GLN
39	L2	14	SER
39	L2	18	SER
39	L2	20	THR
39	L2	28	LYS
39	L2	32	LEU
39	L2	37	ARG
39	L2	44	ILE
39	L2	45	VAL
39	L2	46	LYS
39	L2	48	ILE
39	L2	62	VAL
39	L2	70	ARG
39	L2	72	ARG
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	98	VAL
39	L2	101	VAL
39	L2	104	LEU
39	L2	107	VAL
39	L2	111	THR
39	L2	116	VAL
39	L2	119	LYS
39	L2	134	VAL
39	L2	135	ILE
39	L2	143	GLU
39	L2	157	VAL
39	L2	165	VAL
39	L2	168	VAL
39	L2	169	ILE
39	L2	179	LEU
39	L2	180	LEU
39	L2	202	VAL
39	L2	207	VAL
39	L2	227	ARG
39	L2	231	SER
39	L2	241	ARG

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Mol	Chain	Res	Type
39	L2	247	ARG
39	L2	250	GLN
39	L2	252	THR
40	L3	3	HIS
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	25	ILE
40	L3	30	LYS
40	L3	37	ARG
40	L3	47	LEU
40	L3	53	MET
40	L3	55	THR
40	L3	56	ILE
40	L3	67	PHE
40	L3	70	ARG
40	L3	72	VAL
40	L3	73	VAL
40	L3	79	VAL
40	L3	81	THR
40	L3	84	VAL
40	L3	85	VAL
40	L3	97	ARG
40	L3	103	THR
40	L3	110	LEU
40	L3	114	VAL
40	L3	116	ARG
40	L3	128	LYS
40	L3	134	SER
40	L3	139	GLN
40	L3	144	ILE
40	L3	146	ARG
40	L3	148	LEU
40	L3	156	SER
40	L3	157	VAL
40	L3	160	VAL
40	L3	161	LEU
40	L3	162	VAL
40	L3	169	THR
40	L3	183	LEU
40	L3	188	ILE
40	L3	192	VAL

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Mol	Chain	Res	Type
40	L3	202	THR
40	L3	205	VAL
40	L3	208	VAL
40	L3	210	GLU
40	L3	212	ASN
40	L3	218	ILE
40	L3	232	ARG
40	L3	235	THR
40	L3	238	LEU
40	L3	241	LYS
40	L3	244	ARG
40	L3	252	ILE
40	L3	264	VAL
40	L3	274	SER
40	L3	275	ARG
40	L3	277	SER
40	L3	290	ASP
40	L3	291	GLU
40	L3	304	THR
40	L3	305	ILE
40	L3	312	VAL
40	L3	317	ILE
40	L3	320	ASP
40	L3	324	VAL
40	L3	328	ILE
40	L3	335	ILE
40	L3	337	THR
40	L3	346	THR
40	L3	351	LEU
40	L3	354	VAL
40	L3	355	SER
40	L3	364	LYS
40	L3	380	MET
40	L3	386	ASP
41	L4	4	PRO
41	L4	12	THR
41	L4	25	VAL
41	L4	37	THR
41	L4	41	SER
41	L4	52	VAL
41	L4	74	ILE
41	L4	93	MET

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Mol	Chain	Res	Type
41	L4	98	ARG
41	L4	99	MET
41	L4	112	LYS
41	L4	119	ARG
41	L4	122	THR
41	L4	133	SER
41	L4	138	ARG
41	L4	143	GLU
41	L4	145	ILE
41	L4	148	ILE
41	L4	152	VAL
41	L4	156	LEU
41	L4	172	VAL
41	L4	187	LEU
41	L4	193	LYS
41	L4	200	THR
41	L4	203	ARG
41	L4	206	LEU
41	L4	220	ARG
41	L4	222	VAL
41	L4	225	VAL
41	L4	230	VAL
41	L4	232	SER
41	L4	246	ARG
41	L4	252	GLU
41	L4	256	THR
41	L4	258	LEU
41	L4	260	GLN
41	L4	261	VAL
41	L4	267	VAL
41	L4	282	SER
41	L4	284	SER
41	L4	287	THR
41	L4	289	ILE
41	L4	297	SER
41	L4	307	GLN
41	L4	313	LEU
41	L4	321	LYS
41	L4	323	VAL
41	L4	327	LEU
41	L4	332	LYS
41	L4	333	VAL

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Mol	Chain	Res	Type
41	L4	338	LYS
41	L4	339	LEU
41	L4	343	LYS
41	L4	346	LYS
41	L4	356	THR
41	L4	362	ASP
42	L5	8	LYS
42	L5	23	ARG
42	L5	41	LYS
42	L5	66	SER
42	L5	69	ILE
42	L5	75	LEU
42	L5	80	SER
42	L5	81	HIS
42	L5	89	THR
42	L5	92	LEU
42	L5	101	THR
42	L5	105	ILE
42	L5	112	LYS
42	L5	113	LEU
42	L5	115	LEU
42	L5	124	GLU
42	L5	126	GLU
42	L5	131	LEU
42	L5	140	ARG
42	L5	144	VAL
42	L5	146	LEU
42	L5	148	ILE
42	L5	151	GLN
42	L5	152	ARG
42	L5	154	THR
42	L5	155	THR
42	L5	158	ARG
42	L5	159	VAL
42	L5	163	LEU
42	L5	177	GLU
42	L5	205	SER
42	L5	222	LEU
42	L5	236	LEU
42	L5	258	LYS
42	L5	259	LYS
42	L5	263	GLU

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Mol	Chain	Res	Type
42	L5	273	ARG
42	L5	279	LYS
42	L5	290	ILE
43	L6	5	LYS
43	L6	15	VAL
43	L6	21	THR
43	L6	31	ARG
43	L6	35	VAL
43	L6	50	LYS
43	L6	53	VAL
43	L6	59	GLU
43	L6	64	LEU
43	L6	66	SER
43	L6	78	ARG
43	L6	79	VAL
43	L6	84	VAL
43	L6	85	ILE
43	L6	88	SER
43	L6	89	THR
43	L6	98	VAL
43	L6	104	GLU
43	L6	109	GLU
43	L6	129	GLU
43	L6	134	ARG
43	L6	146	ILE
43	L6	155	LEU
43	L6	160	SER
44	L7	25	GLN
44	L7	26	VAL
44	L7	77	VAL
44	L7	80	GLN
44	L7	82	LYS
44	L7	83	LEU
44	L7	88	ARG
44	L7	92	ILE
44	L7	93	ASN
44	L7	98	LYS
44	L7	100	ARG
44	L7	111	ILE
44	L7	121	LYS
44	L7	124	LEU
44	L7	128	LYS

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Mol	Chain	Res	Type
44	L7	158	LYS
44	L7	173	LEU
44	L7	175	LYS
44	L7	179	LEU
44	L7	184	LEU
44	L7	189	ILE
44	L7	239	LEU
45	L8	26	LEU
45	L8	27	THR
45	L8	41	GLN
45	L8	63	LYS
45	L8	67	ILE
45	L8	71	VAL
45	L8	74	THR
45	L8	79	GLN
45	L8	84	ARG
45	L8	90	THR
45	L8	92	LYS
45	L8	106	LYS
45	L8	132	VAL
45	L8	136	LEU
45	L8	149	LYS
45	L8	156	ASP
45	L8	163	VAL
45	L8	169	LEU
45	L8	180	VAL
45	L8	185	ARG
45	L8	189	LEU
45	L8	194	THR
45	L8	201	THR
45	L8	203	VAL
45	L8	206	GLU
45	L8	227	ASP
45	L8	238	LEU
45	L8	251	LYS
46	L9	1	MET
46	L9	4	ILE
46	L9	5	GLN
46	L9	6	THR
46	L9	9	GLN
46	L9	14	GLU
46	L9	18	VAL

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Mol	Chain	Res	Type
46	L9	19	SER
46	L9	20	ILE
46	L9	22	SER
46	L9	28	VAL
46	L9	31	ARG
46	L9	39	LYS
46	L9	41	ILE
46	L9	44	THR
46	L9	48	VAL
46	L9	52	LEU
46	L9	65	VAL
46	L9	68	LEU
46	L9	70	THR
46	L9	78	MET
46	L9	82	VAL
46	L9	104	VAL
46	L9	123	ILE
46	L9	132	VAL
46	L9	138	THR
46	L9	139	ASN
46	L9	141	LYS
46	L9	149	ASN
46	L9	151	VAL
46	L9	154	VAL
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	172	ILE
46	L9	173	ARG
46	L9	189	GLU
46	L9	190	ASP
47	M0	3	ARG
47	M0	4	ARG
47	M0	26	VAL
47	M0	33	ILE
47	M0	34	TYR
47	M0	39	LYS
47	M0	40	LYS
47	M0	42	THR
47	M0	44	ASP

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Mol	Chain	Res	Type
47	M0	48	LEU
47	M0	52	LEU
47	M0	53	VAL
47	M0	57	LEU
47	M0	63	GLU
47	M0	66	GLU
47	M0	87	LEU
47	M0	91	VAL
47	M0	131	ILE
47	M0	133	GLN
47	M0	139	ARG
47	M0	140	THR
47	M0	142	ASP
47	M0	143	SER
47	M0	145	LYS
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	167	LEU
47	M0	169	LYS
47	M0	185	ARG
47	M0	197	VAL
47	M0	203	LYS
47	M0	208	ASN
48	M1	6	GLN
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	22	SER
48	M1	30	LEU
48	M1	44	THR
48	M1	46	VAL
48	M1	52	TYR
48	M1	56	THR
48	M1	61	ARG
48	M1	63	GLU
48	M1	65	ILE
48	M1	70	THR
48	M1	77	GLU
48	M1	80	LEU

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Mol	Chain	Res	Type
48	M1	81	GLU
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	114	ILE
48	M1	115	LYS
48	M1	120	ILE
48	M1	137	ARG
48	M1	138	VAL
48	M1	140	ARG
48	M1	142	LYS
48	M1	159	THR
48	M1	166	LYS
48	M1	171	VAL
49	M3	22	VAL
49	M3	33	VAL
49	M3	42	ARG
49	M3	54	LEU
49	M3	55	ARG
49	M3	58	VAL
49	M3	59	ARG
49	M3	93	ILE
49	M3	104	ARG
49	M3	114	GLN
49	M3	121	SER
49	M3	122	LYS
49	M3	124	ILE
49	M3	131	LYS
49	M3	136	GLU
49	M3	147	ILE
49	M3	154	VAL
49	M3	164	GLU
49	M3	168	ARG
49	M3	177	LYS
49	M3	182	ILE
49	M3	194	GLU
50	M4	4	ASP
50	M4	8	LYS
50	M4	15	VAL
50	M4	20	VAL
50	M4	27	GLN
50	M4	38	ILE

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Mol	Chain	Res	Type
50	M4	53	VAL
50	M4	69	THR
50	M4	74	ARG
50	M4	90	VAL
50	M4	92	GLU
50	M4	93	LYS
50	M4	108	ARG
50	M4	125	LYS
50	M4	126	GLN
50	M4	130	THR
50	M4	133	LYS
50	M4	135	LEU
51	M5	7	LEU
51	M5	10	LEU
51	M5	14	LYS
51	M5	15	GLN
51	M5	18	VAL
51	M5	19	LEU
51	M5	22	LEU
51	M5	24	ARG
51	M5	38	ARG
51	M5	46	ASP
51	M5	49	ARG
51	M5	50	ARG
51	M5	62	TYR
51	M5	68	ARG
51	M5	80	THR
51	M5	85	THR
51	M5	87	GLN
51	M5	92	LEU
51	M5	96	ARG
51	M5	97	SER
51	M5	106	VAL
51	M5	112	ASN
51	M5	123	GLN
51	M5	133	ILE
51	M5	138	GLN
51	M5	151	ILE
51	M5	155	VAL
51	M5	159	ARG
51	M5	167	THR
51	M5	182	ASN

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Mol	Chain	Res	Type
51	M5	183	THR
51	M5	190	THR
51	M5	194	GLN
51	M5	196	THR
51	M5	204	LYS
52	M6	22	VAL
52	M6	25	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	36	VAL
52	M6	41	LEU
52	M6	78	ARG
52	M6	84	LEU
52	M6	85	ARG
52	M6	106	GLU
52	M6	110	PRO
52	M6	114	LYS
52	M6	117	ARG
52	M6	122	GLN
52	M6	124	LEU
52	M6	126	VAL
52	M6	143	THR
52	M6	160	ARG
52	M6	166	GLU
52	M6	170	LYS
52	M6	180	SER
52	M6	184	THR
52	M6	187	GLU
52	M6	190	VAL
52	M6	194	LEU
53	M7	7	THR
53	M7	24	VAL
53	M7	29	THR
53	M7	32	THR
53	M7	34	GLN
53	M7	36	ILE
53	M7	42	THR
53	M7	51	VAL
53	M7	52	LEU
53	M7	53	ASP
53	M7	56	ARG
53	M7	67	ILE

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Mol	Chain	Res	Type
53	M7	69	ARG
53	M7	91	VAL
53	M7	111	LYS
53	M7	112	LEU
53	M7	119	VAL
53	M7	142	SER
53	M7	144	SER
53	M7	148	LEU
53	M7	152	GLU
53	M7	153	LYS
53	M7	165	VAL
53	M7	181	ARG
54	M8	7	SER
54	M8	11	LYS
54	M8	17	THR
54	M8	22	ASP
54	M8	26	LEU
54	M8	32	LEU
54	M8	41	ASP
54	M8	49	LEU
54	M8	57	ILE
54	M8	64	VAL
54	M8	67	ILE
54	M8	69	ARG
54	M8	80	THR
54	M8	81	VAL
54	M8	100	THR
54	M8	127	LEU
54	M8	129	VAL
54	M8	135	GLN
54	M8	140	LEU
54	M8	148	GLU
54	M8	150	VAL
54	M8	159	LYS
54	M8	168	THR
54	M8	171	LYS
54	M8	174	ARG
54	M8	178	ARG
54	M8	181	SER
55	M9	10	LEU
55	M9	14	VAL
55	M9	19	LYS

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Mol	Chain	Res	Type
55	M9	25	ASP
55	M9	41	ILE
55	M9	42	ARG
55	M9	44	LEU
55	M9	55	VAL
55	M9	69	SER
55	M9	70	LYS
55	M9	74	ARG
55	M9	86	GLU
55	M9	99	LEU
55	M9	103	ARG
55	M9	104	ARG
55	M9	105	LEU
55	M9	106	LEU
55	M9	115	ILE
55	M9	138	LEU
55	M9	144	GLN
55	M9	155	LEU
55	M9	164	LEU
55	M9	171	ASP
55	M9	180	LYS
55	M9	188	ASP
56	N0	16	THR
56	N0	21	GLU
56	N0	45	LEU
56	N0	50	LYS
56	N0	51	VAL
56	N0	58	ILE
56	N0	61	ILE
56	N0	64	ILE
56	N0	71	LYS
56	N0	79	VAL
56	N0	80	ARG
56	N0	87	THR
56	N0	94	ILE
56	N0	97	VAL
56	N0	100	VAL
56	N0	105	THR
56	N0	117	ARG
56	N0	130	GLU
56	N0	131	LYS
56	N0	137	ARG

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Mol	Chain	Res	Type
56	N0	145	THR
56	N0	155	ARG
56	N0	156	VAL
56	N0	157	GLN
56	N0	160	THR
56	N0	161	LYS
56	N0	162	THR
56	N0	169	SER
56	N0	172	TYR
57	N1	12	ARG
57	N1	14	MET
57	N1	16	GLN
57	N1	26	HIS
57	N1	27	LEU
57	N1	36	VAL
57	N1	38	ASP
57	N1	55	LYS
57	N1	71	SER
57	N1	75	ILE
57	N1	78	LYS
57	N1	79	MET
57	N1	80	VAL
57	N1	83	ARG
57	N1	88	ARG
57	N1	96	ILE
57	N1	102	ARG
57	N1	104	GLU
57	N1	118	GLU
57	N1	122	GLN
57	N1	124	VAL
57	N1	126	VAL
57	N1	128	LEU
57	N1	131	GLN
57	N1	139	ARG
57	N1	140	ILE
57	N1	141	VAL
57	N1	143	THR
57	N1	149	GLN
57	N1	158	THR
57	N1	159	PHE
58	N2	14	THR
58	N2	16	THR

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Mol	Chain	Res	Type
58	N2	38	ILE
58	N2	39	ASP
58	N2	52	ASN
58	N2	61	THR
58	N2	66	VAL
58	N2	81	LYS
58	N2	88	GLN
58	N2	93	ILE
58	N2	100	THR
59	N3	12	ARG
59	N3	13	ILE
59	N3	14	SER
59	N3	37	ILE
59	N3	46	LEU
59	N3	48	ARG
59	N3	63	LYS
59	N3	64	LYS
59	N3	72	LYS
59	N3	73	VAL
59	N3	83	LYS
59	N3	88	ARG
59	N3	91	VAL
59	N3	102	ILE
59	N3	106	LYS
59	N3	109	MET
59	N3	115	THR
59	N3	125	LEU
59	N3	133	SER
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR
60	N4	39	LEU
60	N4	47	ARG
60	N4	54	LEU
61	N5	26	VAL
61	N5	27	ARG
61	N5	37	THR
61	N5	38	LEU
61	N5	39	LYS
61	N5	40	LEU
61	N5	45	LYS
61	N5	48	SER

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Mol	Chain	Res	Type
61	N5	57	LEU
61	N5	59	SER
61	N5	63	ILE
61	N5	71	THR
61	N5	78	ASP
61	N5	92	LYS
61	N5	104	GLU
61	N5	108	LEU
61	N5	112	THR
61	N5	115	ARG
61	N5	125	ARG
61	N5	133	LEU
61	N5	134	ASP
61	N5	135	ILE
61	N5	137	ASN
61	N5	139	ILE
61	N5	142	ILE
62	N6	5	SER
62	N6	8	VAL
62	N6	13	ARG
62	N6	16	ARG
62	N6	17	LYS
62	N6	36	SER
62	N6	37	LYS
62	N6	42	GLN
62	N6	45	ILE
62	N6	50	ILE
62	N6	56	VAL
62	N6	57	LEU
62	N6	64	LYS
62	N6	69	LYS
62	N6	76	LEU
62	N6	82	VAL
62	N6	86	THR
62	N6	95	VAL
62	N6	105	VAL
62	N6	115	ARG
62	N6	125	LYS
62	N6	126	LEU
63	N7	14	VAL
63	N7	17	ARG
63	N7	24	VAL

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Mol	Chain	Res	Type
63	N7	26	VAL
63	N7	30	ASP
63	N7	33	SER
63	N7	46	ILE
63	N7	61	LYS
63	N7	65	ARG
63	N7	66	THR
63	N7	72	ILE
63	N7	75	VAL
63	N7	81	LEU
63	N7	83	THR
63	N7	86	THR
63	N7	87	LEU
63	N7	94	SER
63	N7	97	SER
63	N7	102	GLU
63	N7	103	GLN
63	N7	105	SER
63	N7	109	GLU
63	N7	134	LEU
63	N7	136	PHE
64	N8	3	SER
64	N8	6	THR
64	N8	8	THR
64	N8	10	LYS
64	N8	12	ARG
64	N8	16	SER
64	N8	19	LYS
64	N8	27	LYS
64	N8	32	ARG
64	N8	42	ARG
64	N8	56	VAL
64	N8	60	TYR
64	N8	78	LEU
64	N8	88	ASP
64	N8	91	LEU
64	N8	93	SER
64	N8	97	GLU
64	N8	115	LYS
64	N8	117	ARG
64	N8	120	ASN
64	N8	130	VAL

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Mol	Chain	Res	Type
64	N8	133	LEU
64	N8	139	ARG
65	N9	4	SER
65	N9	13	THR
65	N9	14	ARG
65	N9	22	LYS
65	N9	23	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	35	VAL
65	N9	50	THR
65	N9	59	LYS
66	O0	14	LEU
66	O0	16	LEU
66	O0	18	ILE
66	O0	20	SER
66	O0	30	THR
66	O0	33	SER
66	O0	34	LEU
66	O0	41	LEU
66	O0	43	ILE
66	O0	48	THR
66	O0	54	SER
66	O0	66	LYS
66	O0	79	THR
66	O0	83	LYS
66	O0	87	VAL
66	O0	89	VAL
66	O0	100	ILE
66	O0	101	LEU
66	O0	104	LEU
67	O1	6	ASP
67	O1	26	LYS
67	O1	27	LYS
67	O1	46	THR
67	O1	47	ASP
67	O1	55	LEU
67	O1	65	LYS
67	O1	73	LEU
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG

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Mol	Chain	Res	Type
67	O1	82	GLU
67	O1	83	GLU
67	O1	93	VAL
67	O1	96	VAL
67	O1	97	LEU
67	O1	98	VAL
67	O1	104	LEU
67	O1	106	THR
67	O1	107	VAL
68	O2	19	ARG
68	O2	27	ARG
68	O2	33	ARG
68	O2	41	VAL
68	O2	52	GLN
68	O2	55	ILE
68	O2	59	SER
68	O2	61	LYS
68	O2	67	SER
68	O2	69	SER
68	O2	73	THR
68	O2	75	LEU
68	O2	76	VAL
68	O2	82	LEU
68	O2	86	THR
68	O2	90	LYS
68	O2	91	THR
68	O2	125	ARG
69	O3	4	SER
69	O3	15	SER
69	O3	20	LYS
69	O3	31	LYS
69	O3	45	LEU
69	O3	49	ILE
69	O3	59	VAL
69	O3	70	LYS
69	O3	81	VAL
69	O3	98	VAL
70	O4	20	ILE
70	O4	23	VAL
70	O4	24	LYS
70	O4	35	VAL
70	O4	49	SER

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Mol	Chain	Res	Type
70	O4	55	SER
70	O4	58	ARG
70	O4	61	GLN
70	O4	65	VAL
70	O4	68	THR
70	O4	71	THR
70	O4	79	SER
70	O4	80	ARG
70	O4	86	LYS
70	O4	100	ILE
70	O4	101	VAL
70	O4	104	VAL
71	O5	15	GLU
71	O5	21	LEU
71	O5	27	GLU
71	O5	31	LEU
71	O5	45	LYS
71	O5	46	THR
71	O5	47	VAL
71	O5	49	LYS
71	O5	50	SER
71	O5	71	LYS
71	O5	73	LYS
71	O5	85	THR
71	O5	89	ARG
71	O5	90	ARG
71	O5	101	THR
71	O5	104	GLN
71	O5	107	LYS
71	O5	119	LYS
72	O6	11	LEU
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	36	ARG
72	O6	42	SER
72	O6	43	LEU
72	O6	45	ARG
72	O6	57	LEU
72	O6	58	ILE
72	O6	60	LEU
72	O6	67	LYS

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Mol	Chain	Res	Type
72	O6	68	ARG
72	O6	70	ARG
72	O6	71	LYS
72	O6	76	ARG
72	O6	81	THR
72	O6	84	LYS
72	O6	89	GLU
72	O6	90	MET
72	O6	99	ARG
73	O7	5	THR
73	O7	17	THR
73	O7	24	ARG
73	O7	25	ARG
73	O7	33	THR
73	O7	44	THR
73	O7	55	ARG
73	O7	58	THR
73	O7	59	THR
73	O7	65	ARG
73	O7	67	LEU
73	O7	71	SER
73	O7	82	SER
74	O8	5	ILE
74	O8	8	ILE
74	O8	12	LEU
74	O8	22	THR
74	O8	24	THR
74	O8	45	VAL
74	O8	46	ARG
74	O8	53	THR
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	68	SER
74	O8	78	LEU
75	O9	4	GLN
75	O9	9	ILE
75	O9	19	GLN
75	O9	21	ARG
75	O9	25	GLN
75	O9	27	ILE
75	O9	29	LEU

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Mol	Chain	Res	Type
75	O9	36	ARG
75	O9	48	LYS
75	O9	51	ILE
76	Q0	78	ILE
76	Q0	85	LEU
76	Q0	97	ARG
76	Q0	112	LYS
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	2	ARG
77	Q1	5	TRP
77	Q1	6	ARG
77	Q1	9	ARG
77	Q1	10	THR
77	Q1	11	ARG
77	Q1	13	LEU
77	Q1	20	VAL
78	Q2	3	ASN
78	Q2	4	VAL
78	Q2	8	ARG
78	Q2	9	LYS
78	Q2	10	THR
78	Q2	21	THR
78	Q2	26	THR
78	Q2	29	LYS
78	Q2	35	LEU
78	Q2	47	GLN
78	Q2	75	VAL
78	Q2	78	LYS
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	92	GLU
78	Q2	96	GLU
78	Q2	100	LYS
78	Q2	104	LEU
79	Q3	4	ARG
79	Q3	11	THR
79	Q3	25	GLN
79	Q3	26	VAL
79	Q3	42	CYS

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Mol	Chain	Res	Type
79	Q3	45	LYS
79	Q3	46	THR
79	Q3	49	ARG
79	Q3	71	VAL
79	Q3	73	THR
79	Q3	78	THR
79	Q3	82	THR
79	Q3	84	ARG
79	Q3	90	VAL
79	Q3	91	GLU
2	s0	6	THR
2	s0	9	LEU
2	s0	12	GLU
2	s0	29	VAL
2	s0	30	GLN
2	s0	31	VAL
2	s0	41	ARG
2	s0	45	VAL
2	s0	50	VAL
2	s0	57	LEU
2	s0	59	LEU
2	s0	69	ASN
2	s0	87	LEU
2	s0	96	THR
2	s0	110	TYR
2	s0	111	ILE
2	s0	123	VAL
2	s0	131	GLN
2	s0	144	ILE
2	s0	154	GLU
2	s0	158	VAL
2	s0	162	CYS
2	s0	172	LEU
2	s0	180	GLU
2	s0	183	ARG
2	s0	185	ARG
2	s0	188	LEU
2	s0	189	VAL
2	s0	198	MET
2	s0	205	ARG
3	s1	21	VAL
3	s1	25	THR

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Mol	Chain	Res	Type
3	s1	37	THR
3	s1	40	ASN
3	s1	47	LEU
3	s1	51	SER
3	s1	62	LYS
3	s1	68	VAL
3	s1	70	LEU
3	s1	74	GLN
3	s1	81	PHE
3	s1	83	LYS
3	s1	110	LEU
3	s1	119	THR
3	s1	122	GLU
3	s1	124	ASN
3	s1	125	VAL
3	s1	129	THR
3	s1	135	LEU
3	s1	137	ILE
3	s1	159	SER
3	s1	169	SER
3	s1	177	GLN
3	s1	181	LEU
3	s1	193	ILE
3	s1	195	LYS
3	s1	202	LYS
3	s1	206	PRO
3	s1	210	ILE
3	s1	212	VAL
3	s1	217	LEU
3	s1	231	LEU
4	s2	41	LEU
4	s2	53	ILE
4	s2	54	GLU
4	s2	55	GLU
4	s2	58	LEU
4	s2	69	ILE
4	s2	72	LEU
4	s2	73	LEU
4	s2	76	LEU
4	s2	80	VAL
4	s2	81	MET
4	s2	83	ILE

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Mol	Chain	Res	Type
4	s2	89	GLN
4	s2	106	ASP
4	s2	111	VAL
4	s2	113	LEU
4	s2	117	THR
4	s2	137	ILE
4	s2	140	ARG
4	s2	141	ARG
4	s2	148	LEU
4	s2	150	GLN
4	s2	153	SER
4	s2	164	SER
4	s2	166	THR
4	s2	167	VAL
4	s2	170	ILE
4	s2	185	LYS
4	s2	186	LYS
4	s2	194	GLU
4	s2	195	ASP
4	s2	205	ARG
4	s2	207	LEU
4	s2	218	ILE
4	s2	228	ASN
4	s2	233	GLN
4	s2	237	VAL
4	s2	248	SER
4	s2	250	GLN
5	s3	4	LEU
5	s3	41	VAL
5	s3	44	THR
5	s3	55	THR
5	s3	57	ASP
5	s3	67	ASN
5	s3	69	LEU
5	s3	76	ARG
5	s3	84	ILE
5	s3	115	ILE
5	s3	128	GLU
5	s3	142	LEU
5	s3	143	ARG
5	s3	148	LYS
5	s3	158	ILE

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Mol	Chain	Res	Type
5	s3	162	GLN
5	s3	164	VAL
5	s3	168	ILE
5	s3	202	LEU
5	s3	212	LYS
5	s3	213	GLU
6	s4	12	LEU
6	s4	23	LEU
6	s4	38	LEU
6	s4	41	SER
6	s4	42	LEU
6	s4	48	LEU
6	s4	49	ARG
6	s4	50	ASN
6	s4	51	ARG
6	s4	67	GLN
6	s4	70	VAL
6	s4	78	THR
6	s4	81	THR
6	s4	105	VAL
6	s4	113	ARG
6	s4	116	ASP
6	s4	123	LEU
6	s4	126	VAL
6	s4	128	LYS
6	s4	131	LEU
6	s4	146	THR
6	s4	147	ILE
6	s4	160	VAL
6	s4	180	LEU
6	s4	181	VAL
6	s4	182	TYR
6	s4	184	THR
6	s4	191	ARG
6	s4	196	VAL
6	s4	208	VAL
6	s4	214	LEU
6	s4	221	ARG
6	s4	222	LEU
6	s4	223	ASN
6	s4	227	VAL
6	s4	236	ILE

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Mol	Chain	Res	Type
6	s4	245	LYS
6	s4	246	LEU
6	s4	247	SER
7	s5	25	LEU
7	s5	27	THR
7	s5	31	GLU
7	s5	38	THR
7	s5	45	LYS
7	s5	53	VAL
7	s5	59	VAL
7	s5	63	GLN
7	s5	64	VAL
7	s5	68	ILE
7	s5	76	ARG
7	s5	86	GLN
7	s5	89	ILE
7	s5	93	LEU
7	s5	94	THR
7	s5	99	MET
7	s5	102	ARG
7	s5	112	ARG
7	s5	122	ASN
7	s5	125	THR
7	s5	128	ASN
7	s5	146	THR
7	s5	147	THR
7	s5	148	ARG
7	s5	157	ARG
7	s5	162	VAL
7	s5	163	SER
7	s5	170	GLN
7	s5	187	ILE
7	s5	194	LEU
7	s5	203	LYS
7	s5	213	LYS
7	s5	216	GLU
8	s6	15	THR
8	s6	17	GLU
8	s6	29	ASP
8	s6	34	GLN
8	s6	44	GLU
8	s6	69	LEU

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Mol	Chain	Res	Type
8	s6	71	THR
8	s6	73	ILE
8	s6	74	LYS
8	s6	76	LEU
8	s6	78	THR
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	115	LYS
8	s6	121	LEU
8	s6	126	ASP
8	s6	127	THR
8	s6	128	THR
8	s6	129	VAL
8	s6	137	ARG
8	s6	143	LYS
8	s6	151	ASP
8	s6	153	VAL
8	s6	155	ASP
8	s6	156	PHE
8	s6	157	VAL
8	s6	175	ILE
8	s6	177	ARG
8	s6	193	LEU
8	s6	212	LEU
8	s6	215	ARG
9	s7	8	ILE
9	s7	11	GLN
9	s7	28	GLU
9	s7	33	GLU
9	s7	38	LEU
9	s7	49	ILE
9	s7	50	ASP
9	s7	60	ILE
9	s7	62	VAL
9	s7	66	SER
9	s7	67	LEU
9	s7	73	VAL
9	s7	75	THR
9	s7	77	LEU
9	s7	78	THR

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Mol	Chain	Res	Type
9	s7	80	GLU
9	s7	83	LYS
9	s7	97	ARG
9	s7	108	GLN
9	s7	110	GLN
9	s7	114	ARG
9	s7	115	SER
9	s7	116	ARG
9	s7	117	THR
9	s7	118	LEU
9	s7	149	ILE
9	s7	152	VAL
9	s7	160	GLN
9	s7	166	LEU
9	s7	182	VAL
9	s7	185	ILE
10	s8	20	GLN
10	s8	22	ARG
10	s8	25	ARG
10	s8	26	LYS
10	s8	29	LEU
10	s8	46	VAL
10	s8	72	ILE
10	s8	74	LYS
10	s8	76	THR
10	s8	82	VAL
10	s8	89	GLU
10	s8	121	LEU
10	s8	135	LYS
10	s8	138	ASN
10	s8	152	ILE
10	s8	153	GLU
10	s8	155	SER
10	s8	176	SER
10	s8	183	ILE
10	s8	184	LEU
11	s9	6	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	28	LEU
11	s9	39	LYS
11	s9	46	SER

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Mol	Chain	Res	Type
11	s9	48	GLN
11	s9	78	ARG
11	s9	82	ARG
11	s9	93	LEU
11	s9	101	VAL
11	s9	105	LEU
11	s9	109	LEU
11	s9	113	VAL
11	s9	130	THR
11	s9	134	ILE
11	s9	140	ILE
11	s9	150	LEU
11	s9	151	ASP
11	s9	154	LYS
11	s9	161	THR
11	s9	172	VAL
11	s9	174	ARG
11	s9	182	GLU
12	c0	2	LEU
12	c0	3	MET
12	c0	5	LYS
12	c0	15	LEU
12	c0	20	VAL
12	c0	22	VAL
12	c0	33	GLU
12	c0	40	LEU
12	c0	55	VAL
12	c0	57	THR
12	c0	71	GLU
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS
13	c1	30	ARG
13	c1	31	THR
13	c1	32	LYS
13	c1	33	ARG
13	c1	40	LEU
13	c1	44	THR
13	c1	47	THR
13	c1	60	PHE
13	c1	64	VAL

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Mol	Chain	Res	Type
13	c1	70	ILE
13	c1	74	THR
13	c1	76	VAL
13	c1	83	THR
13	c1	86	ILE
13	c1	99	ARG
13	c1	107	VAL
13	c1	109	VAL
13	c1	111	VAL
13	c1	129	ARG
13	c1	131	ILE
13	c1	133	LYS
14	c2	28	LEU
14	c2	37	VAL
14	c2	39	ASP
14	c2	43	ARG
14	c2	45	LEU
14	c2	50	LYS
14	c2	58	LEU
14	c2	61	VAL
14	c2	71	ILE
14	c2	74	LEU
14	c2	83	GLU
14	c2	85	LYS
14	c2	89	ILE
14	c2	103	LEU
14	c2	121	VAL
14	c2	125	ASN
14	c2	132	GLU
14	c2	136	ILE
14	c2	138	GLU
14	c2	140	PHE
15	c3	12	SER
15	c3	16	ILE
15	c3	20	ARG
15	c3	21	ASN
15	c3	28	LEU
15	c3	29	SER
15	c3	30	SER
15	c3	33	VAL
15	c3	37	ILE
15	c3	46	THR

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Mol	Chain	Res	Type
15	c3	60	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	88	LEU
15	c3	97	SER
15	c3	102	LEU
15	c3	104	ARG
15	c3	115	LEU
15	c3	120	SER
15	c3	125	LEU
15	c3	127	ARG
15	c3	131	THR
15	c3	132	VAL
15	c3	134	VAL
15	c3	138	ASN
16	c4	13	VAL
16	c4	16	VAL
16	c4	31	THR
16	c4	43	THR
16	c4	49	LYS
16	c4	79	VAL
16	c4	81	VAL
16	c4	83	ILE
16	c4	90	ARG
16	c4	102	LEU
16	c4	105	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	115	ILE
16	c4	118	VAL
16	c4	119	THR
16	c4	121	VAL
16	c4	123	SER
16	c4	132	ARG
16	c4	133	ARG
16	c4	136	ARG
17	c5	12	PHE
17	c5	20	VAL

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Mol	Chain	Res	Type
17	c5	21	ASP
17	c5	36	LEU
17	c5	49	MET
17	c5	50	THR
17	c5	52	LYS
17	c5	69	GLU
17	c5	71	GLU
17	c5	97	TYR
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	122	THR
17	c5	127	ARG
17	c5	128	HIS
18	c6	7	VAL
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	36	ILE
18	c6	37	THR
18	c6	38	LEU
18	c6	43	ILE
18	c6	53	LEU
18	c6	54	LEU
18	c6	57	LEU
18	c6	63	ILE
18	c6	68	ARG
18	c6	69	VAL
18	c6	70	THR
18	c6	97	VAL
18	c6	107	LYS
18	c6	114	ARG
18	c6	137	ARG
19	c7	5	ARG
19	c7	6	THR
19	c7	29	GLN
19	c7	34	LEU
19	c7	46	LEU
19	c7	55	THR
19	c7	69	ILE
19	c7	85	VAL
19	c7	88	VAL

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Mol	Chain	Res	Type
19	c7	100	LEU
19	c7	102	VAL
19	c7	103	ASP
19	c7	106	THR
19	c7	121	VAL
20	c8	2	SER
20	c8	3	LEU
20	c8	4	VAL
20	c8	5	VAL
20	c8	6	GLN
20	c8	8	GLN
20	c8	13	HIS
20	c8	15	LEU
20	c8	25	ASN
20	c8	28	ILE
20	c8	29	VAL
20	c8	36	LYS
20	c8	38	VAL
20	c8	61	LEU
20	c8	63	GLN
20	c8	74	GLN
20	c8	80	LYS
20	c8	89	GLN
20	c8	94	ASP
20	c8	101	LEU
20	c8	103	ASN
20	c8	107	SER
20	c8	116	LEU
20	c8	119	ILE
20	c8	136	GLN
20	c8	138	THR
20	c8	140	THR
20	c8	141	THR
20	c8	143	ARG
20	c8	144	ARG
21	c9	6	VAL
21	c9	27	LYS
21	c9	28	LEU
21	c9	34	VAL
21	c9	37	VAL
21	c9	38	LYS
21	c9	57	ARG

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Mol	Chain	Res	Type
21	c9	68	ARG
21	c9	70	GLN
21	c9	71	VAL
21	c9	86	ARG
21	c9	110	LYS
21	c9	116	ILE
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	135	ILE
21	c9	139	THR
21	c9	140	LEU
22	d0	16	GLN
22	d0	22	ILE
22	d0	23	ARG
22	d0	27	THR
22	d0	30	LYS
22	d0	31	VAL
22	d0	33	GLN
22	d0	34	LEU
22	d0	44	ASN
22	d0	51	VAL
22	d0	57	ARG
22	d0	60	THR
22	d0	63	LEU
22	d0	67	THR
22	d0	70	THR
22	d0	74	GLU
22	d0	77	LYS
22	d0	81	THR
22	d0	88	LYS
22	d0	89	ARG
22	d0	97	VAL
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	107	THR
22	d0	108	ILE
22	d0	115	GLU
22	d0	118	VAL
23	d1	2	GLU

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Mol	Chain	Res	Type
23	d1	5	LYS
23	d1	8	LEU
23	d1	11	LEU
23	d1	12	TYR
23	d1	24	ILE
23	d1	32	VAL
23	d1	38	LYS
23	d1	50	TYR
23	d1	52	THR
23	d1	66	ASP
23	d1	78	LEU
24	d2	2	THR
24	d2	4	SER
24	d2	6	VAL
24	d2	7	LEU
24	d2	15	ASN
24	d2	23	ARG
24	d2	25	VAL
24	d2	33	VAL
24	d2	49	GLU
24	d2	65	LEU
24	d2	68	ARG
24	d2	98	GLN
24	d2	103	ILE
24	d2	117	ARG
24	d2	124	LYS
24	d2	126	LEU
24	d2	129	VAL
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	33	LEU
25	d3	59	ILE
25	d3	72	VAL
25	d3	73	ARG
25	d3	74	VAL
25	d3	83	VAL
25	d3	84	THR
25	d3	99	ASN
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE

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Mol	Chain	Res	Type
25	d3	109	ARG
25	d3	125	VAL
25	d3	130	VAL
25	d3	132	LEU
25	d3	133	LEU
25	d3	140	LYS
25	d3	141	GLU
26	d4	5	VAL
26	d4	10	ARG
26	d4	26	ASP
26	d4	29	HIS
26	d4	36	SER
26	d4	42	GLU
26	d4	43	LYS
26	d4	49	LYS
26	d4	51	GLU
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	121	THR
26	d4	125	LEU
26	d4	132	ARG
27	d5	41	ILE
27	d5	51	LEU
27	d5	57	TYR
27	d5	71	ILE
27	d5	81	ARG
27	d5	88	ILE
27	d5	92	ILE
28	d6	10	ARG
28	d6	18	VAL
28	d6	24	VAL
28	d6	30	ILE
28	d6	38	ARG
28	d6	41	ILE
28	d6	53	LEU
28	d6	54	SER
28	d6	61	GLU
28	d6	85	ARG

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Mol	Chain	Res	Type
28	d6	90	GLU
29	d7	3	LEU
29	d7	4	VAL
29	d7	14	SER
29	d7	36	LYS
29	d7	43	ILE
29	d7	46	VAL
29	d7	52	THR
29	d7	61	THR
29	d7	72	LYS
29	d7	75	GLU
29	d7	77	THR
29	d7	82	LYS
30	d8	7	VAL
30	d8	11	LYS
30	d8	28	VAL
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	39	THR
30	d8	64	ARG
30	d8	65	ARG
30	d8	67	ARG
31	d9	10	HIS
31	d9	25	SER
31	d9	31	ILE
31	d9	36	LEU
31	d9	42	CYS
31	d9	54	LYS
32	e0	4	VAL
32	e0	13	LYS
32	e0	21	VAL
32	e0	26	LYS
32	e0	28	LYS
32	e0	29	LYS
32	e0	31	LYS
32	e0	39	LEU
32	e0	41	THR
32	e0	42	ARG
32	e0	45	VAL
32	e0	46	ASN
32	e0	49	LEU

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Mol	Chain	Res	Type
32	e0	54	ARG
32	e0	55	ARG
32	e0	56	MET
33	e1	84	VAL
33	e1	86	THR
33	e1	95	HIS
33	e1	96	LYS
33	e1	98	VAL
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	113	LYS
33	e1	120	GLU
33	e1	130	VAL
33	e1	135	HIS
34	sR	29	GLN
34	sR	51	ASP
34	sR	58	VAL
34	sR	59	ARG
34	sR	64	HIS
34	sR	65	SER
34	sR	66	HIS
34	sR	76	ASP
34	sR	96	THR
34	sR	106	HIS
34	sR	145	LEU
34	sR	149	ASP
34	sR	183	LEU
34	sR	202	LEU
34	sR	232	TYR
34	sR	256	THR
34	sR	266	ASP
34	sR	275	ARG
34	sR	286	GLU
34	sR	297	ASP
35	sM	23	LYS
35	sM	25	ILE
35	sM	30	THR
35	sM	43	ASP
35	sM	49	LYS
35	sM	61	ILE
35	sM	64	LYS

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Mol	Chain	Res	Type
35	sM	68	ARG
35	sM	74	LYS
35	sM	75	ASP
35	sM	77	THR
39	l2	10	LYS
39	l2	15	ILE
39	l2	19	HIS
39	l2	32	LEU
39	l2	44	ILE
39	l2	45	VAL
39	l2	46	LYS
39	l2	48	ILE
39	l2	52	SER
39	l2	61	VAL
39	l2	62	VAL
39	l2	71	LEU
39	l2	74	GLU
39	l2	77	ILE
39	l2	82	VAL
39	l2	101	VAL
39	l2	107	VAL
39	l2	109	GLU
39	l2	114	SER
39	l2	119	LYS
39	l2	122	ASP
39	l2	134	VAL
39	l2	137	ILE
39	l2	147	ARG
39	l2	155	LYS
39	l2	157	VAL
39	l2	165	VAL
39	l2	169	ILE
39	l2	179	LEU
39	l2	188	LYS
39	l2	192	LYS
39	l2	193	ARG
39	l2	199	THR
39	l2	204	MET
39	l2	207	VAL
39	l2	215	ASN
39	l2	224	THR
39	l2	225	ILE

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Mol	Chain	Res	Type
39	l2	227	ARG
39	l2	230	VAL
39	l2	242	ARG
39	l2	243	THR
39	l2	246	LEU
40	l3	3	HIS
40	l3	4	ARG
40	l3	5	LYS
40	l3	17	LEU
40	l3	19	ARG
40	l3	30	LYS
40	l3	34	LYS
40	l3	37	ARG
40	l3	43	LEU
40	l3	50	LYS
40	l3	56	ILE
40	l3	69	LYS
40	l3	70	ARG
40	l3	73	VAL
40	l3	77	THR
40	l3	79	VAL
40	l3	85	VAL
40	l3	95	THR
40	l3	101	SER
40	l3	103	THR
40	l3	104	THR
40	l3	110	LEU
40	l3	114	VAL
40	l3	120	LYS
40	l3	139	GLN
40	l3	145	GLU
40	l3	148	LEU
40	l3	157	VAL
40	l3	160	VAL
40	l3	167	ARG
40	l3	169	THR
40	l3	183	LEU
40	l3	192	VAL
40	l3	197	GLU
40	l3	202	THR
40	l3	205	VAL
40	l3	208	VAL

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Mol	Chain	Res	Type
40	l3	211	GLN
40	l3	213	GLU
40	l3	220	VAL
40	l3	221	THR
40	l3	222	LYS
40	l3	232	ARG
40	l3	235	THR
40	l3	238	LEU
40	l3	249	VAL
40	l3	252	ILE
40	l3	261	MET
40	l3	264	VAL
40	l3	274	SER
40	l3	275	ARG
40	l3	282	ILE
40	l3	284	ARG
40	l3	300	ARG
40	l3	308	MET
40	l3	324	VAL
40	l3	328	ILE
40	l3	335	ILE
40	l3	348	ARG
40	l3	349	LYS
41	l4	2	SER
41	l4	14	GLU
41	l4	25	VAL
41	l4	33	ASP
41	l4	34	ILE
41	l4	35	VAL
41	l4	46	LYS
41	l4	47	ARG
41	l4	52	VAL
41	l4	71	VAL
41	l4	73	ARG
41	l4	93	MET
41	l4	99	MET
41	l4	122	THR
41	l4	133	SER
41	l4	144	LYS
41	l4	145	ILE
41	l4	148	ILE
41	l4	150	LEU

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Mol	Chain	Res	Type
41	l4	151	VAL
41	l4	156	LEU
41	l4	170	LYS
41	l4	179	LEU
41	l4	183	LYS
41	l4	185	LYS
41	l4	187	LEU
41	l4	193	LYS
41	l4	203	ARG
41	l4	206	LEU
41	l4	217	LYS
41	l4	220	ARG
41	l4	222	VAL
41	l4	230	VAL
41	l4	233	LEU
41	l4	246	ARG
41	l4	256	THR
41	l4	258	LEU
41	l4	265	GLU
41	l4	287	THR
41	l4	289	ILE
41	l4	292	SER
41	l4	301	PRO
41	l4	304	GLN
41	l4	307	GLN
41	l4	313	LEU
41	l4	316	ASN
41	l4	327	LEU
41	l4	333	VAL
41	l4	345	GLU
41	l4	346	LYS
41	l4	347	THR
41	l4	356	THR
41	l4	359	LEU
42	l5	5	LYS
42	l5	9	SER
42	l5	34	LYS
42	l5	35	ARG
42	l5	38	THR
42	l5	41	LYS
42	l5	51	LEU
42	l5	61	ILE

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Mol	Chain	Res	Type
42	15	64	ILE
42	15	65	ILE
42	15	70	THR
42	15	73	VAL
42	15	74	VAL
42	15	75	LEU
42	15	84	PRO
42	15	93	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	135	VAL
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	177	GLU
42	15	185	PHE
42	15	194	LEU
42	15	211	LEU
42	15	218	ARG
42	15	222	LEU
42	15	227	LEU
42	15	239	ILE
42	15	242	SER
42	15	258	LYS
42	15	259	LYS
42	15	268	GLU
42	15	273	ARG
42	15	282	ARG
42	15	293	LEU
42	15	297	GLN
43	16	2	SER
43	16	8	LYS
43	16	18	LEU

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Mol	Chain	Res	Type
43	16	20	LYS
43	16	21	THR
43	16	46	ARG
43	16	50	LYS
43	16	52	VAL
43	16	64	LEU
43	16	65	ILE
43	16	76	LEU
43	16	78	ARG
43	16	79	VAL
43	16	87	THR
43	16	89	THR
43	16	91	VAL
43	16	92	SER
43	16	98	VAL
43	16	108	LYS
43	16	109	GLU
43	16	131	LYS
43	16	146	ILE
43	16	152	THR
43	16	155	LEU
44	17	22	THR
44	17	24	GLU
44	17	26	VAL
44	17	39	GLU
44	17	54	GLU
44	17	60	ARG
44	17	77	VAL
44	17	83	LEU
44	17	88	ARG
44	17	100	ARG
44	17	101	LYS
44	17	110	ARG
44	17	121	LYS
44	17	130	ILE
44	17	156	ILE
44	17	158	LYS
44	17	163	LEU
44	17	173	LEU
44	17	175	LYS
44	17	179	LEU
44	17	184	LEU

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Mol	Chain	Res	Type
44	17	219	LYS
44	17	225	GLN
44	17	229	PHE
44	17	234	GLU
44	17	239	LEU
45	18	26	LEU
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	89	GLU
45	18	90	THR
45	18	108	ARG
45	18	109	LEU
45	18	136	LEU
45	18	146	LYS
45	18	149	LYS
45	18	150	LEU
45	18	157	VAL
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	190	VAL
45	18	200	LEU
45	18	208	GLU
45	18	211	LEU
45	18	213	LYS
45	18	214	LEU
45	18	222	PHE
45	18	224	ASP
45	18	230	LYS
45	18	245	LYS
45	18	248	LYS
46	19	4	ILE

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Mol	Chain	Res	Type
46	19	6	THR
46	19	16	VAL
46	19	18	VAL
46	19	19	SER
46	19	33	THR
46	19	44	THR
46	19	48	VAL
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	80	THR
46	19	82	VAL
46	19	104	VAL
46	19	105	GLU
46	19	113	GLU
46	19	115	ARG
46	19	118	LEU
46	19	124	ARG
46	19	132	VAL
46	19	133	THR
46	19	138	THR
46	19	143	GLU
46	19	144	ILE
46	19	147	SER
46	19	151	VAL
46	19	152	GLU
46	19	157	ASN
46	19	161	LEU
46	19	162	GLN
46	19	163	GLN
46	19	173	ARG
46	19	179	ILE
46	19	191	LEU
47	m0	7	ARG
47	m0	24	ARG
47	m0	26	VAL
47	m0	31	ILE
47	m0	36	LEU
47	m0	38	LYS

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Mol	Chain	Res	Type
47	m0	39	LYS
47	m0	42	THR
47	m0	44	ASP
47	m0	48	LEU
47	m0	52	LEU
47	m0	58	GLU
47	m0	63	GLU
47	m0	71	CYS
47	m0	76	MET
47	m0	80	SER
47	m0	87	LEU
47	m0	91	VAL
47	m0	99	ILE
47	m0	112	GLN
47	m0	145	LYS
47	m0	154	ARG
47	m0	163	GLN
47	m0	169	LYS
47	m0	176	LEU
47	m0	183	LYS
47	m0	197	VAL
47	m0	206	LEU
47	m0	210	ILE
47	m0	211	ARG
47	m0	212	GLU
47	m0	215	GLU
47	m0	217	PHE
48	m1	6	GLN
48	m1	10	ARG
48	m1	12	LEU
48	m1	13	LYS
48	m1	22	SER
48	m1	29	ARG
48	m1	30	LEU
48	m1	31	THR
48	m1	34	SER
48	m1	35	LYS
48	m1	37	LEU
48	m1	44	THR
48	m1	46	VAL
48	m1	55	ARG
48	m1	65	ILE

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Mol	Chain	Res	Type
48	m1	71	VAL
48	m1	79	ILE
48	m1	80	LEU
48	m1	82	ARG
48	m1	92	ARG
48	m1	101	ASN
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	115	LYS
48	m1	129	VAL
48	m1	130	VAL
48	m1	138	VAL
48	m1	140	ARG
48	m1	142	LYS
48	m1	145	LYS
48	m1	153	LYS
48	m1	155	THR
48	m1	160	VAL
49	m3	54	LEU
49	m3	58	VAL
49	m3	59	ARG
49	m3	63	VAL
49	m3	69	VAL
49	m3	73	ARG
49	m3	100	ARG
49	m3	107	GLU
49	m3	118	GLU
49	m3	121	SER
49	m3	123	ILE
49	m3	124	ILE
49	m3	131	LYS
49	m3	149	GLN
49	m3	152	THR
49	m3	165	SER
49	m3	168	ARG
49	m3	184	GLU
49	m3	189	GLU
49	m3	194	GLU
50	m4	3	THR
50	m4	4	ASP
50	m4	10	SER

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Mol	Chain	Res	Type
50	m4	15	VAL
50	m4	16	GLU
50	m4	20	VAL
50	m4	25	LYS
50	m4	27	GLN
50	m4	39	ILE
50	m4	43	LYS
50	m4	53	VAL
50	m4	62	GLN
50	m4	63	VAL
50	m4	64	VAL
50	m4	72	LEU
50	m4	98	SER
50	m4	108	ARG
50	m4	124	ARG
50	m4	128	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	10	LEU
51	m5	12	ARG
51	m5	15	GLN
51	m5	18	VAL
51	m5	22	LEU
51	m5	24	ARG
51	m5	43	THR
51	m5	46	ASP
51	m5	61	ILE
51	m5	64	VAL
51	m5	76	PRO
51	m5	80	THR
51	m5	83	LYS
51	m5	92	LEU
51	m5	96	ARG
51	m5	104	GLU
51	m5	106	VAL
51	m5	116	LEU
51	m5	117	ASN
51	m5	138	GLN
51	m5	142	ILE
51	m5	151	ILE
51	m5	155	VAL
51	m5	165	THR

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Mol	Chain	Res	Type
51	m5	171	SER
51	m5	174	ILE
51	m5	175	ASN
51	m5	176	LYS
51	m5	182	ASN
51	m5	190	THR
51	m5	204	LYS
52	m6	7	VAL
52	m6	22	VAL
52	m6	25	LYS
52	m6	34	VAL
52	m6	41	LEU
52	m6	58	LEU
52	m6	67	THR
52	m6	68	ARG
52	m6	74	ARG
52	m6	78	ARG
52	m6	85	ARG
52	m6	106	GLU
52	m6	108	ILE
52	m6	110	PRO
52	m6	116	LYS
52	m6	117	ARG
52	m6	124	LEU
52	m6	128	ARG
52	m6	129	LEU
52	m6	134	LYS
52	m6	152	VAL
52	m6	159	LYS
52	m6	160	ARG
52	m6	171	LYS
52	m6	175	THR
52	m6	182	ASN
52	m6	190	VAL
53	m7	3	ARG
53	m7	7	THR
53	m7	9	THR
53	m7	24	VAL
53	m7	32	THR
53	m7	41	LEU
53	m7	52	LEU
53	m7	53	ASP

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Mol	Chain	Res	Type
53	m7	69	ARG
53	m7	78	VAL
53	m7	79	THR
53	m7	91	VAL
53	m7	112	LEU
53	m7	114	VAL
53	m7	118	GLN
53	m7	119	VAL
53	m7	127	ARG
53	m7	136	ILE
53	m7	150	VAL
53	m7	155	GLU
54	m8	3	ILE
54	m8	7	SER
54	m8	12	ARG
54	m8	17	THR
54	m8	22	ASP
54	m8	26	LEU
54	m8	32	LEU
54	m8	34	THR
54	m8	49	LEU
54	m8	57	ILE
54	m8	64	VAL
54	m8	69	ARG
54	m8	74	GLU
54	m8	80	THR
54	m8	81	VAL
54	m8	84	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	113	LYS
54	m8	135	GLN
54	m8	138	LEU
54	m8	139	ILE
54	m8	141	ARG
54	m8	161	LYS
54	m8	166	LEU
54	m8	168	THR
54	m8	170	ARG
55	m9	7	GLN
55	m9	9	ARG
55	m9	10	LEU

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Mol	Chain	Res	Type
55	m9	17	VAL
55	m9	20	ARG
55	m9	29	THR
55	m9	39	ASN
55	m9	43	LYS
55	m9	49	THR
55	m9	55	VAL
55	m9	57	VAL
55	m9	70	LYS
55	m9	71	ARG
55	m9	74	ARG
55	m9	88	ARG
55	m9	92	GLN
55	m9	99	LEU
55	m9	106	LEU
55	m9	111	ASP
55	m9	117	LYS
55	m9	126	GLU
55	m9	127	SER
55	m9	128	LYS
55	m9	133	LYS
55	m9	134	HIS
55	m9	138	LEU
55	m9	142	ILE
55	m9	148	ASP
55	m9	152	GLU
55	m9	153	LYS
55	m9	156	ASN
55	m9	164	LEU
55	m9	173	ARG
55	m9	177	VAL
55	m9	180	LYS
56	n0	8	GLN
56	n0	13	ARG
56	n0	17	GLU
56	n0	19	VAL
56	n0	21	GLU
56	n0	23	LYS
56	n0	45	LEU
56	n0	50	LYS
56	n0	52	LYS
56	n0	58	ILE

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Mol	Chain	Res	Type
56	n0	61	ILE
56	n0	80	ARG
56	n0	87	THR
56	n0	92	LYS
56	n0	97	VAL
56	n0	100	VAL
56	n0	105	THR
56	n0	117	ARG
56	n0	120	SER
56	n0	131	LYS
56	n0	136	LYS
56	n0	137	ARG
56	n0	148	LEU
56	n0	149	LYS
56	n0	155	ARG
56	n0	157	GLN
56	n0	159	SER
56	n0	160	THR
56	n0	162	THR
56	n0	167	ARG
56	n0	172	TYR
57	n1	9	SER
57	n1	12	ARG
57	n1	17	ARG
57	n1	25	VAL
57	n1	27	LEU
57	n1	36	VAL
57	n1	52	MET
57	n1	60	LYS
57	n1	68	THR
57	n1	69	LYS
57	n1	71	SER
57	n1	72	VAL
57	n1	78	LYS
57	n1	80	VAL
57	n1	83	ARG
57	n1	86	GLU
57	n1	88	ARG
57	n1	96	ILE
57	n1	102	ARG
57	n1	104	GLU
57	n1	126	VAL

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Mol	Chain	Res	Type
57	n1	127	GLN
57	n1	129	LYS
57	n1	131	GLN
57	n1	135	PRO
57	n1	139	ARG
57	n1	141	VAL
57	n1	143	THR
57	n1	150	THR
57	n1	154	VAL
58	n2	27	VAL
58	n2	28	PHE
58	n2	37	LEU
58	n2	38	ILE
58	n2	43	VAL
58	n2	47	VAL
58	n2	50	LEU
58	n2	54	VAL
58	n2	62	VAL
58	n2	63	VAL
58	n2	66	VAL
58	n2	68	THR
58	n2	94	ARG
58	n2	98	THR
59	n3	13	ILE
59	n3	40	LYS
59	n3	45	ARG
59	n3	48	ARG
59	n3	72	LYS
59	n3	73	VAL
59	n3	74	MET
59	n3	88	ARG
59	n3	91	VAL
59	n3	102	ILE
59	n3	112	SER
59	n3	115	THR
60	n4	1	MET
60	n4	4	GLU
60	n4	19	THR
60	n4	25	ASP
60	n4	39	LEU
60	n4	47	ARG
60	n4	54	LEU

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Mol	Chain	Res	Type
60	n4	57	LYS
60	n4	63	ILE
60	n4	67	VAL
60	n4	77	LYS
60	n4	82	ILE
60	n4	89	LEU
60	n4	96	LEU
60	n4	100	VAL
60	n4	107	GLU
60	n4	127	LYS
61	n5	24	LEU
61	n5	27	ARG
61	n5	37	THR
61	n5	40	LEU
61	n5	56	ARG
61	n5	57	LEU
61	n5	63	ILE
61	n5	71	THR
61	n5	73	MET
61	n5	86	VAL
61	n5	102	LEU
61	n5	105	VAL
61	n5	109	LYS
61	n5	115	ARG
61	n5	124	VAL
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	142	ILE
62	n6	4	GLN
62	n6	8	VAL
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	17	LYS
62	n6	32	SER
62	n6	37	LYS
62	n6	39	LEU
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	56	VAL

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Mol	Chain	Res	Type
62	n6	57	LEU
62	n6	66	GLN
62	n6	70	ILE
62	n6	76	LEU
62	n6	80	VAL
62	n6	84	LYS
62	n6	89	LYS
62	n6	97	ILE
62	n6	108	LYS
62	n6	111	LEU
62	n6	115	ARG
62	n6	120	GLN
63	n7	3	LYS
63	n7	14	VAL
63	n7	17	ARG
63	n7	24	VAL
63	n7	26	VAL
63	n7	33	SER
63	n7	34	LYS
63	n7	35	SER
63	n7	36	HIS
63	n7	46	ILE
63	n7	72	ILE
63	n7	81	LEU
63	n7	95	VAL
63	n7	98	THR
63	n7	99	GLU
63	n7	100	THR
63	n7	102	GLU
63	n7	103	GLN
63	n7	111	LYS
63	n7	128	GLN
63	n7	134	LEU
64	n8	4	ARG
64	n8	6	THR
64	n8	7	LYS
64	n8	8	THR
64	n8	12	ARG
64	n8	15	VAL
64	n8	26	ARG
64	n8	27	LYS
64	n8	42	ARG

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Mol	Chain	Res	Type
64	n8	58	MET
64	n8	78	LEU
64	n8	85	ASP
64	n8	91	LEU
64	n8	97	GLU
64	n8	98	THR
64	n8	120	ASN
64	n8	128	ARG
64	n8	133	LEU
64	n8	135	GLU
64	n8	139	ARG
65	n9	19	ASN
65	n9	21	ILE
65	n9	22	LYS
65	n9	23	LYS
65	n9	26	THR
65	n9	33	LYS
65	n9	38	LYS
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	12	GLN
66	o0	19	LYS
66	o0	32	LYS
66	o0	41	LEU
66	o0	48	THR
66	o0	50	VAL
66	o0	55	GLU
66	o0	61	MET
66	o0	74	ASN
66	o0	76	GLU
66	o0	81	VAL
66	o0	86	ARG
66	o0	87	VAL
66	o0	89	VAL
66	o0	99	ASP
66	o0	103	THR
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	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	46	THR
67	o1	55	LEU
67	o1	64	VAL
67	o1	68	GLU
67	o1	76	SER
67	o1	82	GLU
67	o1	90	PHE
67	o1	96	VAL
67	o1	100	SER
67	o1	102	LYS
67	o1	106	THR
68	o2	4	LEU
68	o2	5	PRO
68	o2	6	HIS
68	o2	9	ILE
68	o2	15	LYS
68	o2	19	ARG
68	o2	27	ARG
68	o2	31	ASN
68	o2	33	ARG
68	o2	35	GLN
68	o2	47	ARG
68	o2	51	SER
68	o2	55	ILE
68	o2	61	LYS
68	o2	71	HIS
68	o2	73	THR
68	o2	75	LEU
68	o2	76	VAL
68	o2	82	LEU
68	o2	91	THR
68	o2	106	VAL
68	o2	123	LYS
68	o2	125	ARG
68	o2	126	LEU
69	o3	4	SER
69	o3	28	SER
69	o3	37	THR
69	o3	48	ARG

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Mol	Chain	Res	Type
69	o3	59	VAL
69	o3	60	ARG
69	o3	66	VAL
69	o3	70	LYS
69	o3	74	THR
69	o3	92	LYS
69	o3	98	VAL
69	o3	107	ILE
70	o4	20	ILE
70	o4	23	VAL
70	o4	24	LYS
70	o4	29	ILE
70	o4	35	VAL
70	o4	41	ARG
70	o4	46	ASP
70	o4	58	ARG
70	o4	65	VAL
70	o4	66	SER
70	o4	71	THR
70	o4	83	ASN
70	o4	85	VAL
70	o4	98	GLN
70	o4	102	LYS
70	o4	104	VAL
71	o5	11	THR
71	o5	15	GLU
71	o5	20	GLN
71	o5	24	LEU
71	o5	27	GLU
71	o5	28	LEU
71	o5	30	GLU
71	o5	31	LEU
71	o5	38	ARG
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	62	GLN
71	o5	67	ARG
71	o5	68	GLN
71	o5	69	LEU
71	o5	81	ARG
71	o5	85	THR

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Mol	Chain	Res	Type
71	o5	89	ARG
71	o5	100	VAL
71	o5	101	THR
71	o5	113	GLN
72	o6	3	VAL
72	o6	7	ILE
72	o6	9	ILE
72	o6	12	ASN
72	o6	15	LYS
72	o6	17	VAL
72	o6	19	SER
72	o6	21	THR
72	o6	26	ILE
72	o6	29	LYS
72	o6	34	SER
72	o6	35	ASN
72	o6	36	ARG
72	o6	42	SER
72	o6	43	LEU
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	59	ASP
72	o6	60	LEU
72	o6	68	ARG
72	o6	75	LYS
72	o6	76	ARG
72	o6	84	LYS
72	o6	88	GLU
72	o6	90	MET
72	o6	94	ILE
72	o6	98	ARG
73	o7	3	LYS
73	o7	15	SER
73	o7	17	THR
73	o7	25	ARG
73	o7	33	THR
73	o7	35	SER
73	o7	44	THR
73	o7	55	ARG
73	o7	67	LEU
73	o7	68	LYS

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Mol	Chain	Res	Type
73	o7	80	THR
74	o8	5	ILE
74	o8	24	THR
74	o8	31	LEU
74	o8	41	THR
74	o8	53	THR
74	o8	55	VAL
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
74	o8	78	LEU
75	o9	4	GLN
75	o9	21	ARG
75	o9	29	LEU
75	o9	45	ARG
76	q0	77	ILE
76	q0	78	ILE
76	q0	80	PRO
76	q0	82	LEU
76	q0	85	LEU
76	q0	87	SER
76	q0	88	LYS
76	q0	91	CYS
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG
76	q0	114	LYS
76	q0	127	LEU
77	q1	2	ARG
77	q1	9	ARG
77	q1	13	LEU
77	q1	18	ARG
77	q1	19	LYS
77	q1	21	ARG
77	q1	23	ARG
78	q2	7	THR
78	q2	8	ARG
78	q2	13	LYS
78	q2	15	LYS
78	q2	34	SER
78	q2	35	LEU
78	q2	48	SER

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Mol	Chain	Res	Type
78	q2	61	LYS
78	q2	78	LYS
78	q2	79	THR
78	q2	83	LEU
78	q2	84	THR
78	q2	85	LEU
78	q2	89	LYS
78	q2	93	LEU
78	q2	100	LYS
78	q2	105	GLN
79	q3	3	LYS
79	q3	4	ARG
79	q3	20	SER
79	q3	24	ARG
79	q3	41	PHE
79	q3	48	LYS
79	q3	49	ARG
79	q3	54	ILE
79	q3	56	THR
79	q3	58	SER
79	q3	64	VAL
79	q3	70	THR
79	q3	73	THR
79	q3	79	VAL
81	p0	4	ILE
81	p0	5	ARG
81	p0	10	GLU
81	p0	30	VAL
81	p0	43	LYS
81	p0	48	ARG
81	p0	51	VAL
81	p0	52	LEU
81	p0	55	LYS
81	p0	67	LEU
81	p0	68	SER
81	p0	69	ASP
81	p0	70	LEU
81	p0	76	LEU
81	p0	93	LEU
81	p0	97	LYS
81	p0	103	ASN
81	p0	104	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (161) such sidechains are listed below:

Mol	Chain	Res	Type
2	S0	33	GLN
3	S1	92	GLN
3	S1	95	ASN
3	S1	183	GLN
3	S1	220	GLN
4	S2	89	GLN
4	S2	94	GLN
4	S2	150	GLN
5	S3	56	GLN
5	S3	74	GLN
6	S4	231	GLN
6	S4	258	GLN
7	S5	63	GLN
8	S6	182	GLN
9	S7	147	ASN
10	S8	32	GLN
11	S9	110	GLN
11	S9	112	GLN
11	S9	155	HIS
13	C1	14	GLN
17	C5	79	HIS
18	C6	83	GLN
19	C7	101	ASN
20	C8	71	GLN
20	C8	89	GLN
20	C8	99	HIS
20	C8	104	ASN
20	C8	136	GLN
21	C9	43	ASN
21	C9	101	ASN
21	C9	106	GLN
22	D0	121	ASN
23	D1	75	ASN
28	D6	72	HIS
29	D7	51	GLN
30	D8	51	ASN
31	D9	37	ASN
31	D9	48	ASN
31	D9	53	ASN
32	E0	5	HIS
34	SR	17	ASN

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Mol	Chain	Res	Type
34	SR	268	GLN
35	SM	108	GLN
35	SM	124	GLN
39	L2	8	GLN
39	L2	205	ASN
39	L2	216	HIS
39	L2	250	GLN
40	L3	279	ASN
41	L4	114	ASN
41	L4	116	ASN
41	L4	304	GLN
42	L5	32	GLN
43	L6	102	ASN
45	L8	77	GLN
45	L8	137	ASN
45	L8	192	GLN
46	L9	156	GLN
47	M0	59	GLN
48	M1	68	HIS
49	M3	99	HIS
49	M3	120	GLN
50	M4	105	GLN
50	M4	126	GLN
51	M5	15	GLN
51	M5	138	GLN
52	M6	26	GLN
53	M7	121	GLN
53	M7	137	ASN
55	M9	66	HIS
55	M9	175	GLN
56	N0	108	GLN
57	N1	5	HIS
57	N1	16	GLN
57	N1	134	GLN
58	N2	49	ASN
58	N2	87	ASN
58	N2	101	ASN
59	N3	104	ASN
59	N3	132	ASN
61	N5	94	GLN
62	N6	26	GLN
62	N6	42	GLN

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Mol	Chain	Res	Type
62	N6	98	ASN
63	N7	106	GLN
63	N7	128	GLN
64	N8	11	HIS
64	N8	28	HIS
64	N8	62	HIS
64	N8	89	GLN
65	N9	17	HIS
65	N9	48	HIS
68	O2	21	HIS
68	O2	49	ASN
68	O2	52	GLN
68	O2	104	ASN
71	O5	34	GLN
74	O8	32	ASN
75	O9	33	ASN
78	Q2	105	GLN
2	s0	46	HIS
3	s1	74	GLN
3	s1	209	ASN
4	s2	228	ASN
5	s3	162	GLN
5	s3	165	ASN
6	s4	98	ASN
6	s4	188	ASN
7	s5	131	GLN
8	s6	201	GLN
9	s7	150	GLN
10	s8	20	GLN
11	s9	123	HIS
12	c0	9	ASN
13	c1	138	ASN
15	c3	21	ASN
15	c3	58	HIS
19	c7	104	ASN
20	c8	89	GLN
20	c8	127	HIS
21	c9	70	GLN
22	d0	16	GLN
22	d0	105	GLN
23	d1	21	ASN
24	d2	56	HIS

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Mol	Chain	Res	Type
25	d3	75	GLN
34	sR	69	GLN
40	l3	165	GLN
40	l3	211	GLN
40	l3	224	HIS
41	l4	116	ASN
42	l5	4	GLN
42	l5	90	HIS
42	l5	111	GLN
44	l7	61	ASN
45	l8	28	HIS
45	l8	61	GLN
46	l9	8	GLN
47	m0	51	HIS
48	m1	39	GLN
48	m1	68	HIS
49	m3	102	GLN
49	m3	149	GLN
49	m3	162	ASN
50	m4	56	GLN
51	m5	156	HIS
52	m6	26	GLN
52	m6	72	HIS
52	m6	122	GLN
52	m6	182	ASN
53	m7	120	ASN
53	m7	125	GLN
54	m8	126	GLN
54	m8	152	HIS
58	n2	101	ASN
61	n5	55	ASN
68	o2	13	HIS
70	o4	98	GLN
75	o9	50	ASN
81	p0	32	ASN
81	p0	37	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1777/1800 (98%)	461 (25%)	48 (2%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	6	1792/1800 (99%)	448 (25%)	45 (2%)
36	1	3145/3396 (92%)	664 (21%)	62 (1%)
36	5	3146/3396 (92%)	655 (20%)	68 (2%)
37	3	120/121 (99%)	13 (10%)	2 (1%)
37	7	120/121 (99%)	19 (15%)	1 (0%)
38	4	157/158 (99%)	38 (24%)	3 (1%)
38	8	157/158 (99%)	38 (24%)	1 (0%)
All	All	10414/10950 (95%)	2336 (22%)	230 (2%)

All (2336) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	25	C
1	2	26	A
1	2	27	U
1	2	34	G
1	2	39	A
1	2	45	U
1	2	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	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	76	A
1	2	104	A
1	2	114	C
1	2	127	G
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U

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Mol	Chain	Res	Type
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	169	A
1	2	178	U
1	2	179	A
1	2	185	U
1	2	186	C
1	2	187	G
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	197	A
1	2	198	A
1	2	200	A
1	2	207	U
1	2	215	A
1	2	217	A
1	2	218	A
1	2	219	A
1	2	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	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	242	U

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Mol	Chain	Res	Type
1	2	250	C
1	2	257	A
1	2	260	U
1	2	261	U
1	2	265	A
1	2	266	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	308	C
1	2	314	C
1	2	316	A
1	2	320	U
1	2	321	C
1	2	322	G
1	2	333	A
1	2	337	G
1	2	338	C
1	2	351	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	368	U
1	2	387	A
1	2	390	G
1	2	393	C
1	2	397	A
1	2	400	A
1	2	402	C
1	2	403	G

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Mol	Chain	Res	Type
1	2	404	G
1	2	416	A
1	2	418	G
1	2	419	G
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	434	G
1	2	437	A
1	2	439	U
1	2	440	U
1	2	444	C
1	2	448	C
1	2	458	G
1	2	475	A
1	2	477	A
1	2	484	C
1	2	485	A
1	2	486	G
1	2	488	G
1	2	493	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	508	U
1	2	510	G
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	527	A

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Mol	Chain	Res	Type
1	2	528	U
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	548	G
1	2	554	C
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C
1	2	578	U
1	2	579	A
1	2	580	A
1	2	581	U
1	2	582	U
1	2	594	A
1	2	595	G
1	2	609	U
1	2	611	U
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	639	U
1	2	640	U
1	2	650	U
1	2	653	C
1	2	654	C
1	2	655	G
1	2	656	G
1	2	658	C
1	2	677	G
1	2	682	C
1	2	684	A

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Mol	Chain	Res	Type
1	2	685	A
1	2	686	C
1	2	692	C
1	2	694	U
1	2	696	C
1	2	697	C
1	2	698	U
1	2	700	C
1	2	701	U
1	2	702	G
1	2	703	G
1	2	704	C
1	2	705	U
1	2	706	A
1	2	707	A
1	2	709	C
1	2	710	U
1	2	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	725	U
1	2	727	U
1	2	728	U
1	2	731	C
1	2	733	A
1	2	734	A
1	2	735	C
1	2	736	C
1	2	737	A
1	2	738	G
1	2	742	U
1	2	745	U
1	2	754	A
1	2	755	A
1	2	756	A

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Mol	Chain	Res	Type
1	2	759	U
1	2	765	G
1	2	766	U
1	2	774	A
1	2	775	G
1	2	777	C
1	2	781	U
1	2	783	G
1	2	784	C
1	2	787	G
1	2	789	A
1	2	793	A
1	2	794	U
1	2	795	U
1	2	803	A
1	2	812	A
1	2	813	U
1	2	814	A
1	2	815	G
1	2	816	G
1	2	818	C
1	2	819	G
1	2	820	U
1	2	821	U
1	2	823	G
1	2	824	G
1	2	830	U
1	2	831	U
1	2	833	U
1	2	846	G
1	2	850	A
1	2	856	A
1	2	863	A
1	2	864	U
1	2	876	G
1	2	886	U
1	2	896	U
1	2	898	A
1	2	912	U
1	2	914	G
1	2	916	U
1	2	921	U

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Mol	Chain	Res	Type
1	2	926	A
1	2	931	C
1	2	933	A
1	2	935	U
1	2	942	G
1	2	951	A
1	2	960	U
1	2	966	A
1	2	988	A
1	2	992	A
1	2	993	A
1	2	997	G
1	2	998	A
1	2	1002	G
1	2	1003	A
1	2	1004	U
1	2	1005	A
1	2	1026	A
1	2	1028	C
1	2	1029	U
1	2	1031	U
1	2	1039	A
1	2	1040	G
1	2	1052	U
1	2	1053	G
1	2	1058	U
1	2	1061	A
1	2	1073	G
1	2	1075	C
1	2	1079	U
1	2	1080	U
1	2	1082	C
1	2	1086	A
1	2	1091	A
1	2	1092	A
1	2	1093	A
1	2	1096	C
1	2	1097	U
1	2	1100	G
1	2	1109	G
1	2	1111	G
1	2	1138	A

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Mol	Chain	Res	Type
1	2	1146	G
1	2	1149	G
1	2	1150	G
1	2	1151	A
1	2	1157	A
1	2	1158	C
1	2	1160	A
1	2	1164	G
1	2	1167	G
1	2	1168	U
1	2	1176	G
1	2	1185	U
1	2	1194	A
1	2	1196	A
1	2	1197	C
1	2	1199	G
1	2	1200	G
1	2	1202	A
1	2	1203	A
1	2	1207	C
1	2	1217	A
1	2	1218	G
1	2	1227	A
1	2	1228	G
1	2	1229	G
1	2	1241	G
1	2	1243	G
1	2	1244	A
1	2	1245	G
1	2	1251	U
1	2	1256	A
1	2	1257	U
1	2	1258	U
1	2	1271	G
1	2	1285	U
1	2	1286	U
1	2	1291	G
1	2	1301	U
1	2	1307	U
1	2	1314	U
1	2	1315	U
1	2	1320	U

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Mol	Chain	Res	Type
1	2	1321	A
1	2	1337	A
1	2	1339	C
1	2	1340	U
1	2	1341	A
1	2	1344	A
1	2	1345	A
1	2	1346	A
1	2	1355	C
1	2	1361	U
1	2	1363	U
1	2	1370	U
1	2	1371	A
1	2	1372	U
1	2	1388	A
1	2	1390	U
1	2	1398	U
1	2	1399	C
1	2	1412	G
1	2	1413	U
1	2	1415	U
1	2	1427	A
1	2	1428	G
1	2	1431	C
1	2	1446	A
1	2	1457	C
1	2	1458	G
1	2	1459	C
1	2	1461	C
1	2	1471	A
1	2	1473	U
1	2	1474	G
1	2	1482	C
1	2	1486	G
1	2	1489	U
1	2	1490	C
1	2	1491	U
1	2	1492	A
1	2	1493	A
1	2	1499	G
1	2	1514	U
1	2	1516	A

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Mol	Chain	Res	Type
1	2	1517	U
1	2	1518	C
1	2	1521	G
1	2	1523	G
1	2	1524	A
1	2	1526	A
1	2	1535	U
1	2	1536	G
1	2	1537	C
1	2	1538	U
1	2	1542	G
1	2	1557	U
1	2	1559	A
1	2	1569	A
1	2	1574	G
1	2	1584	G
1	2	1601	G
1	2	1614	A
1	2	1616	G
1	2	1626	U
1	2	1631	A
1	2	1657	U
1	2	1658	G
1	2	1680	G
1	2	1683	C
1	2	1684	U
1	2	1686	C
1	2	1697	G
1	2	1698	G
1	2	1699	G
1	2	1700	C
1	2	1701	A
1	2	1702	A
1	2	1703	C
1	2	1704	U
1	2	1711	C
1	2	1712	A
1	2	1713	G
1	2	1715	G
1	2	1731	A
1	2	1760	G
1	2	1762	A

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Mol	Chain	Res	Type
1	2	1766	A
1	2	1769	U
1	2	1770	U
1	2	1780	G
1	2	1782	A
1	2	1783	C
1	2	1792	G
1	2	1793	G
1	2	1794	A
1	2	1795	U
1	2	1796	C
36	1	16	A
36	1	26	A
36	1	40	A
36	1	44	U
36	1	45	A
36	1	49	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	75	G
36	1	83	U
36	1	92	G
36	1	99	A
36	1	109	A
36	1	110	G
36	1	111	C
36	1	116	A
36	1	121	A
36	1	122	A
36	1	128	G
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	161	G
36	1	165	A
36	1	166	C
36	1	187	A

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Mol	Chain	Res	Type
36	1	190	U
36	1	191	U
36	1	200	C
36	1	210	U
36	1	211	A
36	1	218	G
36	1	219	A
36	1	220	G
36	1	224	C
36	1	237	G
36	1	240	U
36	1	243	G
36	1	245	U
36	1	246	U
36	1	247	C
36	1	249	U
36	1	250	U
36	1	252	U
36	1	256	G
36	1	269	G
36	1	283	G
36	1	286	U
36	1	288	C
36	1	295	A
36	1	298	U
36	1	299	G
36	1	315	C
36	1	323	A
36	1	329	U
36	1	339	C
36	1	349	A
36	1	350	C
36	1	370	U
36	1	376	G
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	421	G
36	1	422	A
36	1	438	A

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Mol	Chain	Res	Type
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	527	A
36	1	535	G
36	1	536	U
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	549	U
36	1	551	A
36	1	552	G
36	1	553	U
36	1	555	U
36	1	556	U
36	1	557	A
36	1	558	U
36	1	559	A
36	1	578	A
36	1	579	G
36	1	592	A
36	1	593	C
36	1	594	U
36	1	595	G
36	1	600	G
36	1	603	A
36	1	604	G
36	1	609	G
36	1	611	A
36	1	620	U
36	1	621	A
36	1	622	A
36	1	636	C
36	1	649	A
36	1	651	G
36	1	658	G
36	1	660	A

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Mol	Chain	Res	Type
36	1	667	C
36	1	677	A
36	1	681	U
36	1	691	A
36	1	705	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	718	G
36	1	725	G
36	1	763	G
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U
36	1	776	U
36	1	777	U
36	1	781	G
36	1	785	G
36	1	787	G
36	1	806	A
36	1	816	A
36	1	817	A
36	1	826	G
36	1	828	A
36	1	830	A
36	1	837	A
36	1	849	C
36	1	861	C
36	1	866	A
36	1	871	U
36	1	874	U
36	1	876	A
36	1	879	U
36	1	890	C
36	1	896	A
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	921	A

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Mol	Chain	Res	Type
36	1	923	C
36	1	924	G
36	1	925	A
36	1	936	A
36	1	937	G
36	1	938	C
36	1	943	U
36	1	944	C
36	1	959	C
36	1	960	U
36	1	963	G
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1010	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1034	U
36	1	1036	A
36	1	1037	C
36	1	1047	A
36	1	1049	C
36	1	1063	G
36	1	1064	A
36	1	1065	A
36	1	1068	C
36	1	1071	U
36	1	1072	G
36	1	1081	U
36	1	1083	G
36	1	1087	G

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Mol	Chain	Res	Type
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1103	A
36	1	1104	G
36	1	1117	G
36	1	1131	G
36	1	1138	U
36	1	1153	A
36	1	1159	A
36	1	1160	C
36	1	1168	U
36	1	1178	G
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1191	U
36	1	1192	C
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1225	A
36	1	1226	G
36	1	1227	C
36	1	1232	C
36	1	1233	G
36	1	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

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Mol	Chain	Res	Type
36	1	1249	G
36	1	1254	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1265	U
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1274	A
36	1	1277	C
36	1	1278	A
36	1	1279	C
36	1	1280	C
36	1	1285	G
36	1	1287	A
36	1	1292	C
36	1	1307	G
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1323	G
36	1	1329	U
36	1	1330	A
36	1	1331	U
36	1	1348	U
36	1	1349	G
36	1	1350	A
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1379	G
36	1	1386	A
36	1	1399	A
36	1	1400	G
36	1	1417	G
36	1	1419	A

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Mol	Chain	Res	Type
36	1	1421	G
36	1	1425	U
36	1	1429	G
36	1	1434	G
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1452	A
36	1	1455	U
36	1	1465	A
36	1	1481	A
36	1	1482	A
36	1	1484	U
36	1	1485	G
36	1	1488	G
36	1	1491	A
36	1	1495	U
36	1	1496	C
36	1	1508	C
36	1	1527	C
36	1	1533	U
36	1	1555	U
36	1	1556	C
36	1	1557	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	1576	G
36	1	1580	A
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1607	U
36	1	1620	U

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Mol	Chain	Res	Type
36	1	1629	U
36	1	1633	C
36	1	1639	C
36	1	1641	U
36	1	1642	A
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1673	G
36	1	1683	A
36	1	1705	U
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1729	A
36	1	1736	G
36	1	1741	A
36	1	1742	U
36	1	1745	C
36	1	1749	A
36	1	1750	A
36	1	1751	G
36	1	1752	A
36	1	1761	C
36	1	1762	C
36	1	1763	U
36	1	1765	U
36	1	1766	G
36	1	1769	G
36	1	1770	G
36	1	1775	G
36	1	1780	G
36	1	1797	A
36	1	1810	A
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1822	C

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Mol	Chain	Res	Type
36	1	1835	A
36	1	1839	A
36	1	1841	A
36	1	1842	A
36	1	1846	C
36	1	1849	C
36	1	1866	C
36	1	1879	A
36	1	1880	U
36	1	1886	A
36	1	1901	A
36	1	1906	G
36	1	1912	U
36	1	1917	C
36	1	1935	G
36	1	1948	G
36	1	1951	C
36	1	1952	G
36	1	1954	G
36	1	2094	C
36	1	2098	C
36	1	2100	A
36	1	2101	C
36	1	2102	U
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2121	G
36	1	2122	G
36	1	2131	A
36	1	2140	U
36	1	2144	A
36	1	2158	A
36	1	2165	G
36	1	2169	G
36	1	2170	U
36	1	2185	G
36	1	2188	A
36	1	2205	U
36	1	2208	A
36	1	2210	G
36	1	2213	A

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Mol	Chain	Res	Type
36	1	2222	A
36	1	2223	A
36	1	2239	G
36	1	2244	A
36	1	2249	G
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2272	G
36	1	2273	G
36	1	2279	A
36	1	2281	A
36	1	2282	U
36	1	2284	C
36	1	2288	G
36	1	2298	U
36	1	2301	U
36	1	2307	G
36	1	2309	A
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2334	U
36	1	2335	G
36	1	2336	U
36	1	2360	C
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2401	A
36	1	2402	A
36	1	2403	G
36	1	2404	A
36	1	2411	U
36	1	2418	G
36	1	2419	A

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Mol	Chain	Res	Type
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2507	C
36	1	2513	U
36	1	2514	U
36	1	2515	A
36	1	2521	U
36	1	2522	G
36	1	2523	A
36	1	2526	C
36	1	2532	U
36	1	2533	G
36	1	2534	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2551	U
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2560	C
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C
36	1	2573	G
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C

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Mol	Chain	Res	Type
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2629	U
36	1	2636	A
36	1	2637	A
36	1	2638	C
36	1	2652	U
36	1	2653	C
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	2695	A
36	1	2696	A
36	1	2705	A
36	1	2706	G
36	1	2707	C
36	1	2712	U
36	1	2714	G
36	1	2728	G
36	1	2737	C
36	1	2749	G
36	1	2752	U
36	1	2753	G
36	1	2754	G
36	1	2755	C
36	1	2762	A
36	1	2772	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	2810	C
36	1	2814	G
36	1	2817	A
36	1	2829	U

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Mol	Chain	Res	Type
36	1	2836	C
36	1	2837	A
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2849	C
36	1	2854	U
36	1	2860	U
36	1	2870	C
36	1	2871	G
36	1	2872	A
36	1	2887	A
36	1	2889	C
36	1	2898	G
36	1	2899	C
36	1	2900	A
36	1	2914	G
36	1	2917	G
36	1	2923	U
36	1	2935	U
36	1	2936	A
36	1	2937	G
36	1	2939	G
36	1	2942	C
36	1	2943	G
36	1	2947	G
36	1	2983	C
36	1	2990	G
36	1	2992	U
36	1	2996	U
36	1	2997	G
36	1	3012	A
36	1	3025	C
36	1	3030	G
36	1	3044	G
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A

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Mol	Chain	Res	Type
36	1	3090	U
36	1	3091	A
36	1	3092	C
36	1	3103	A
36	1	3104	U
36	1	3113	A
36	1	3114	A
36	1	3122	A
36	1	3129	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	3158	G
36	1	3164	C
36	1	3165	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	3181	C
36	1	3187	A
36	1	3196	U
36	1	3197	G
36	1	3199	G
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

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Mol	Chain	Res	Type
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	3270	U
36	1	3272	C
36	1	3276	G
36	1	3279	A
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3289	G
36	1	3293	U
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	3313	U
36	1	3314	A
36	1	3316	A
36	1	3318	G
36	1	3319	U
36	1	3320	A
36	1	3335	A
36	1	3341	U
36	1	3345	G
36	1	3346	U
36	1	3347	A
36	1	3349	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3368	U
36	1	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U

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Mol	Chain	Res	Type
36	1	3383	G
36	1	3389	U
36	1	3396	U
37	3	7	G
37	3	10	C
37	3	13	A
37	3	14	U
37	3	22	A
37	3	41	G
37	3	54	U
37	3	65	G
37	3	76	A
37	3	91	G
37	3	102	A
37	3	112	G
37	3	121	U
38	4	21	C
38	4	26	U
38	4	34	U
38	4	35	C
38	4	48	A
38	4	50	C
38	4	51	G
38	4	52	A
38	4	57	C
38	4	59	A
38	4	60	U
38	4	62	C
38	4	63	G
38	4	69	U
38	4	70	G
38	4	75	G
38	4	80	A
38	4	81	U
38	4	82	U
38	4	85	G
38	4	86	U
38	4	87	G
38	4	90	U
38	4	95	G
38	4	96	A
38	4	104	A

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Mol	Chain	Res	Type
38	4	105	A
38	4	106	C
38	4	111	A
38	4	112	U
38	4	113	U
38	4	125	U
38	4	126	A
38	4	128	U
38	4	138	A
38	4	155	A
38	4	157	U
38	4	158	U
1	6	2	A
1	6	4	C
1	6	17	C
1	6	25	C
1	6	26	A
1	6	27	U
1	6	34	G
1	6	47	A
1	6	50	C
1	6	57	G
1	6	60	U
1	6	61	A
1	6	66	U
1	6	67	A
1	6	68	A
1	6	69	G
1	6	71	A
1	6	72	A
1	6	73	U
1	6	75	U
1	6	76	A
1	6	77	U
1	6	104	A
1	6	114	C
1	6	115	G
1	6	132	U
1	6	137	U
1	6	138	A
1	6	140	A
1	6	141	U

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Mol	Chain	Res	Type
1	6	144	U
1	6	145	A
1	6	146	U
1	6	153	G
1	6	158	U
1	6	159	U
1	6	161	U
1	6	166	C
1	6	170	U
1	6	178	U
1	6	185	U
1	6	188	A
1	6	190	C
1	6	191	C
1	6	192	U
1	6	193	U
1	6	194	U
1	6	195	G
1	6	196	G
1	6	199	G
1	6	200	A
1	6	215	A
1	6	216	U
1	6	217	A
1	6	218	A
1	6	219	A
1	6	220	A
1	6	226	A
1	6	227	U
1	6	228	G
1	6	230	C
1	6	232	U
1	6	233	C
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	266	A

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Mol	Chain	Res	Type
1	6	271	A
1	6	272	U
1	6	273	G
1	6	277	U
1	6	278	U
1	6	280	U
1	6	287	G
1	6	299	A
1	6	302	U
1	6	314	C
1	6	316	A
1	6	319	U
1	6	320	U
1	6	321	C
1	6	322	G
1	6	337	G
1	6	338	C
1	6	352	A
1	6	359	A
1	6	360	A
1	6	361	C
1	6	371	G
1	6	400	A
1	6	401	A
1	6	402	C
1	6	404	G
1	6	416	A
1	6	417	A
1	6	418	G
1	6	424	C
1	6	425	A
1	6	426	G
1	6	434	G
1	6	439	U
1	6	444	C
1	6	448	C
1	6	454	U
1	6	468	A
1	6	469	C
1	6	475	A
1	6	477	A
1	6	484	C

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Mol	Chain	Res	Type
1	6	485	A
1	6	486	G
1	6	487	G
1	6	488	G
1	6	489	C
1	6	490	C
1	6	492	A
1	6	493	U
1	6	494	U
1	6	496	G
1	6	500	C
1	6	501	U
1	6	504	U
1	6	505	A
1	6	506	A
1	6	507	U
1	6	508	U
1	6	510	G
1	6	511	A
1	6	512	A
1	6	513	U
1	6	514	G
1	6	515	A
1	6	519	C
1	6	527	A
1	6	534	A
1	6	536	C
1	6	538	A
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	555	A
1	6	556	A
1	6	557	G
1	6	558	U
1	6	559	C
1	6	564	G
1	6	565	C

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Mol	Chain	Res	Type
1	6	570	A
1	6	574	G
1	6	578	U
1	6	579	A
1	6	580	A
1	6	594	A
1	6	595	G
1	6	609	U
1	6	611	U
1	6	616	G
1	6	617	U
1	6	619	A
1	6	620	A
1	6	622	A
1	6	623	A
1	6	624	G
1	6	630	A
1	6	634	G
1	6	639	U
1	6	645	C
1	6	648	G
1	6	650	U
1	6	652	G
1	6	653	C
1	6	654	C
1	6	661	A
1	6	662	U
1	6	665	U
1	6	667	U
1	6	668	C
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	696	C

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Mol	Chain	Res	Type
1	6	697	C
1	6	698	U
1	6	709	C
1	6	710	U
1	6	711	U
1	6	714	G
1	6	715	U
1	6	718	U
1	6	719	U
1	6	720	G
1	6	721	U
1	6	722	G
1	6	730	G
1	6	742	U
1	6	744	U
1	6	751	G
1	6	754	A
1	6	755	A
1	6	756	A
1	6	765	G
1	6	767	U
1	6	774	A
1	6	775	G
1	6	780	A
1	6	781	U
1	6	782	U
1	6	783	G
1	6	787	G
1	6	789	A
1	6	792	U
1	6	793	A
1	6	794	U
1	6	811	A
1	6	812	A
1	6	814	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

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Mol	Chain	Res	Type
1	6	829	A
1	6	830	U
1	6	831	U
1	6	832	U
1	6	834	G
1	6	835	U
1	6	856	A
1	6	861	U
1	6	863	A
1	6	873	U
1	6	876	G
1	6	898	A
1	6	906	A
1	6	910	C
1	6	912	U
1	6	913	G
1	6	914	G
1	6	916	U
1	6	933	A
1	6	935	U
1	6	942	G
1	6	944	A
1	6	959	U
1	6	960	U
1	6	969	C
1	6	970	A
1	6	971	A
1	6	992	A
1	6	993	A
1	6	997	G
1	6	1003	A
1	6	1004	U
1	6	1005	A
1	6	1018	U
1	6	1026	A
1	6	1028	C
1	6	1031	U
1	6	1039	A
1	6	1040	G
1	6	1052	U
1	6	1053	G
1	6	1057	U

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Mol	Chain	Res	Type
1	6	1058	U
1	6	1059	U
1	6	1060	U
1	6	1063	U
1	6	1073	G
1	6	1082	C
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	1109	G
1	6	1111	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	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	1207	C
1	6	1208	A
1	6	1217	A
1	6	1218	G
1	6	1219	A
1	6	1226	A
1	6	1227	A
1	6	1228	G
1	6	1229	G
1	6	1230	A
1	6	1241	G
1	6	1242	A

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Mol	Chain	Res	Type
1	6	1243	G
1	6	1244	A
1	6	1245	G
1	6	1246	C
1	6	1252	C
1	6	1255	G
1	6	1256	A
1	6	1257	U
1	6	1258	U
1	6	1286	U
1	6	1288	G
1	6	1314	U
1	6	1315	U
1	6	1316	G
1	6	1321	A
1	6	1338	C
1	6	1344	A
1	6	1345	A
1	6	1346	A
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	1370	U
1	6	1371	A
1	6	1383	G
1	6	1388	A
1	6	1390	U
1	6	1398	U
1	6	1399	C
1	6	1400	A
1	6	1402	G
1	6	1413	U
1	6	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

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Mol	Chain	Res	Type
1	6	1448	G
1	6	1458	G
1	6	1459	C
1	6	1460	A
1	6	1461	C
1	6	1471	A
1	6	1473	U
1	6	1481	C
1	6	1482	C
1	6	1486	G
1	6	1489	U
1	6	1490	C
1	6	1491	U
1	6	1492	A
1	6	1493	A
1	6	1494	C
1	6	1496	U
1	6	1506	G
1	6	1514	U
1	6	1515	A
1	6	1516	A
1	6	1521	G
1	6	1523	G
1	6	1524	A
1	6	1535	U
1	6	1536	G
1	6	1537	C
1	6	1538	U
1	6	1540	G
1	6	1554	U
1	6	1557	U
1	6	1559	A
1	6	1569	A
1	6	1573	A
1	6	1574	G
1	6	1575	G
1	6	1582	U
1	6	1584	G
1	6	1600	A
1	6	1601	G
1	6	1615	C
1	6	1616	G

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Mol	Chain	Res	Type
1	6	1621	U
1	6	1634	C
1	6	1637	C
1	6	1638	G
1	6	1639	C
1	6	1657	U
1	6	1658	G
1	6	1666	U
1	6	1697	G
1	6	1698	G
1	6	1699	G
1	6	1700	C
1	6	1701	A
1	6	1702	A
1	6	1712	A
1	6	1713	G
1	6	1715	G
1	6	1716	C
1	6	1717	G
1	6	1727	G
1	6	1730	A
1	6	1731	A
1	6	1735	U
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	1780	G
1	6	1782	A
1	6	1783	C
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	15	C
36	5	26	A

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Mol	Chain	Res	Type
36	5	33	G
36	5	39	A
36	5	40	A
36	5	44	U
36	5	49	A
36	5	59	G
36	5	60	A
36	5	65	A
36	5	66	A
36	5	73	C
36	5	75	G
36	5	76	G
36	5	83	U
36	5	92	G
36	5	93	C
36	5	96	G
36	5	99	A
36	5	109	A
36	5	110	G
36	5	111	C
36	5	116	A
36	5	120	G
36	5	121	A
36	5	122	A
36	5	133	U
36	5	134	U
36	5	135	C
36	5	136	G
36	5	150	A
36	5	152	U
36	5	156	G
36	5	157	A
36	5	165	A
36	5	166	C
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

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Mol	Chain	Res	Type
36	5	184	U
36	5	187	A
36	5	190	U
36	5	191	U
36	5	210	U
36	5	218	G
36	5	219	A
36	5	221	A
36	5	231	G
36	5	234	G
36	5	237	G
36	5	238	A
36	5	239	G
36	5	240	U
36	5	244	G
36	5	247	C
36	5	248	U
36	5	249	U
36	5	250	U
36	5	251	G
36	5	252	U
36	5	253	A
36	5	254	A
36	5	269	G
36	5	284	A
36	5	286	U
36	5	295	A
36	5	299	G
36	5	316	U
36	5	323	A
36	5	329	U
36	5	339	C
36	5	349	A
36	5	350	C
36	5	351	A
36	5	352	A
36	5	370	U
36	5	376	G
36	5	397	A
36	5	398	A
36	5	399	A
36	5	401	U

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Mol	Chain	Res	Type
36	5	402	A
36	5	403	C
36	5	420	G
36	5	421	G
36	5	422	A
36	5	436	A
36	5	437	G
36	5	438	A
36	5	439	C
36	5	440	A
36	5	441	U
36	5	442	G
36	5	492	U
36	5	495	G
36	5	515	C
36	5	521	A
36	5	535	G
36	5	539	C
36	5	546	C
36	5	547	G
36	5	548	G
36	5	553	U
36	5	555	U
36	5	557	A
36	5	559	A
36	5	578	A
36	5	579	G
36	5	592	A
36	5	594	U
36	5	595	G
36	5	600	G
36	5	603	A
36	5	604	G
36	5	609	G
36	5	611	A
36	5	619	A
36	5	620	U
36	5	621	A
36	5	636	C
36	5	649	A
36	5	651	G
36	5	660	A

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Mol	Chain	Res	Type
36	5	677	A
36	5	681	U
36	5	683	U
36	5	691	A
36	5	692	A
36	5	705	A
36	5	708	G
36	5	712	G
36	5	715	A
36	5	716	A
36	5	722	G
36	5	725	G
36	5	727	G
36	5	735	A
36	5	736	A
36	5	758	C
36	5	763	G
36	5	766	U
36	5	767	U
36	5	768	C
36	5	776	U
36	5	777	U
36	5	781	G
36	5	785	G
36	5	786	A
36	5	806	A
36	5	816	A
36	5	817	A
36	5	830	A
36	5	837	A
36	5	851	C
36	5	853	G
36	5	861	C
36	5	874	U
36	5	877	C
36	5	879	U
36	5	895	A
36	5	896	A
36	5	907	G
36	5	908	G
36	5	910	G
36	5	913	A

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Mol	Chain	Res	Type
36	5	914	A
36	5	916	G
36	5	917	A
36	5	921	A
36	5	923	C
36	5	937	G
36	5	944	C
36	5	953	G
36	5	959	C
36	5	960	U
36	5	962	A
36	5	963	G
36	5	974	G
36	5	979	U
36	5	984	G
36	5	993	G
36	5	994	G
36	5	1000	C
36	5	1001	G
36	5	1002	A
36	5	1006	A
36	5	1010	G
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	1027	A
36	5	1028	U
36	5	1029	G
36	5	1032	C
36	5	1035	G
36	5	1047	A
36	5	1049	C
36	5	1064	A
36	5	1065	A
36	5	1071	U
36	5	1072	G

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Mol	Chain	Res	Type
36	5	1081	U
36	5	1082	U
36	5	1085	A
36	5	1093	A
36	5	1094	U
36	5	1095	U
36	5	1096	U
36	5	1097	G
36	5	1098	A
36	5	1103	A
36	5	1104	G
36	5	1117	G
36	5	1131	G
36	5	1144	U
36	5	1152	G
36	5	1153	A
36	5	1156	C
36	5	1159	A
36	5	1173	U
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	1202	A
36	5	1209	G
36	5	1222	G
36	5	1223	A
36	5	1232	C
36	5	1235	U
36	5	1236	G
36	5	1237	G
36	5	1238	C
36	5	1239	C
36	5	1241	U
36	5	1242	G
36	5	1245	A
36	5	1246	G
36	5	1252	A

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Mol	Chain	Res	Type
36	5	1254	C
36	5	1258	U
36	5	1262	G
36	5	1263	A
36	5	1264	G
36	5	1266	G
36	5	1281	G
36	5	1285	G
36	5	1295	G
36	5	1307	G
36	5	1308	A
36	5	1309	U
36	5	1311	G
36	5	1313	G
36	5	1330	A
36	5	1331	U
36	5	1332	A
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	1385	C
36	5	1386	A
36	5	1387	G
36	5	1399	A
36	5	1400	G
36	5	1418	A
36	5	1419	A
36	5	1428	A
36	5	1431	G
36	5	1434	G
36	5	1437	C
36	5	1446	A
36	5	1450	G
36	5	1480	G
36	5	1481	A
36	5	1482	A
36	5	1502	C
36	5	1503	A

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Mol	Chain	Res	Type
36	5	1508	C
36	5	1514	G
36	5	1515	A
36	5	1519	G
36	5	1536	G
36	5	1549	U
36	5	1554	U
36	5	1555	U
36	5	1556	C
36	5	1557	A
36	5	1560	G
36	5	1561	G
36	5	1562	C
36	5	1566	A
36	5	1567	U
36	5	1569	U
36	5	1570	U
36	5	1571	A
36	5	1572	U
36	5	1574	C
36	5	1575	A
36	5	1576	G
36	5	1577	G
36	5	1578	C
36	5	1579	C
36	5	1581	C
36	5	1583	A
36	5	1587	A
36	5	1589	A
36	5	1593	A
36	5	1605	A
36	5	1607	U
36	5	1620	U
36	5	1629	U
36	5	1639	C
36	5	1643	A
36	5	1644	C
36	5	1645	U
36	5	1683	A
36	5	1685	C
36	5	1686	U
36	5	1716	U

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Mol	Chain	Res	Type
36	5	1717	U
36	5	1724	U
36	5	1736	G
36	5	1750	A
36	5	1751	G
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	1780	G
36	5	1793	C
36	5	1797	A
36	5	1810	A
36	5	1813	A
36	5	1814	A
36	5	1815	U
36	5	1816	A
36	5	1817	G
36	5	1818	U
36	5	1820	U
36	5	1821	U
36	5	1839	A
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	1878	G
36	5	1879	A
36	5	1880	U
36	5	1893	A
36	5	1895	A
36	5	1906	G
36	5	1935	G
36	5	1952	G
36	5	1953	G
36	5	2101	C
36	5	2102	U
36	5	2112	U

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Mol	Chain	Res	Type
36	5	2113	A
36	5	2121	G
36	5	2122	G
36	5	2131	A
36	5	2144	A
36	5	2158	A
36	5	2169	G
36	5	2187	G
36	5	2188	A
36	5	2192	C
36	5	2205	U
36	5	2208	A
36	5	2210	G
36	5	2215	A
36	5	2223	A
36	5	2228	A
36	5	2244	A
36	5	2250	G
36	5	2252	A
36	5	2253	G
36	5	2255	A
36	5	2256	A
36	5	2258	U
36	5	2272	G
36	5	2273	G
36	5	2279	A
36	5	2281	A
36	5	2288	G
36	5	2299	A
36	5	2307	G
36	5	2310	U
36	5	2313	A
36	5	2315	G
36	5	2334	U
36	5	2335	G
36	5	2336	U
36	5	2360	C
36	5	2372	A
36	5	2373	A
36	5	2374	C
36	5	2375	G
36	5	2385	G

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Mol	Chain	Res	Type
36	5	2392	C
36	5	2393	G
36	5	2396	G
36	5	2397	A
36	5	2401	A
36	5	2403	G
36	5	2404	A
36	5	2411	U
36	5	2418	G
36	5	2419	A
36	5	2435	G
36	5	2436	U
36	5	2438	A
36	5	2439	A
36	5	2440	G
36	5	2441	A
36	5	2443	A
36	5	2504	U
36	5	2505	U
36	5	2508	U
36	5	2510	U
36	5	2511	A
36	5	2514	U
36	5	2515	A
36	5	2518	C
36	5	2523	A
36	5	2524	A
36	5	2525	G
36	5	2526	C
36	5	2530	G
36	5	2531	C
36	5	2532	U
36	5	2537	U
36	5	2538	U
36	5	2539	C
36	5	2540	A
36	5	2541	U
36	5	2543	U
36	5	2549	G
36	5	2552	C
36	5	2555	G
36	5	2562	A

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Mol	Chain	Res	Type
36	5	2565	U
36	5	2566	C
36	5	2567	C
36	5	2568	C
36	5	2569	A
36	5	2570	U
36	5	2571	U
36	5	2572	C
36	5	2573	G
36	5	2574	G
36	5	2584	G
36	5	2585	G
36	5	2589	G
36	5	2593	A
36	5	2594	C
36	5	2606	G
36	5	2607	G
36	5	2614	G
36	5	2618	G
36	5	2639	G
36	5	2652	U
36	5	2656	A
36	5	2667	A
36	5	2674	A
36	5	2675	C
36	5	2677	G
36	5	2678	A
36	5	2681	U
36	5	2683	U
36	5	2689	A
36	5	2690	G
36	5	2694	A
36	5	2696	A
36	5	2707	C
36	5	2714	G
36	5	2719	U
36	5	2720	G
36	5	2727	A
36	5	2728	G
36	5	2729	U
36	5	2734	A
36	5	2752	U

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Mol	Chain	Res	Type
36	5	2753	G
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	2796	G
36	5	2799	A
36	5	2800	G
36	5	2801	A
36	5	2802	A
36	5	2810	C
36	5	2814	G
36	5	2817	A
36	5	2818	U
36	5	2819	A
36	5	2828	G
36	5	2837	A
36	5	2838	A
36	5	2839	G
36	5	2843	U
36	5	2845	A
36	5	2847	A
36	5	2853	A
36	5	2855	U
36	5	2866	U
36	5	2870	C
36	5	2871	G
36	5	2872	A
36	5	2873	U
36	5	2874	G
36	5	2875	U
36	5	2876	C
36	5	2886	U
36	5	2887	A
36	5	2888	U
36	5	2896	A
36	5	2899	C
36	5	2904	U
36	5	2918	G

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Mol	Chain	Res	Type
36	5	2923	U
36	5	2935	U
36	5	2936	A
36	5	2942	C
36	5	2947	G
36	5	2956	A
36	5	2971	A
36	5	2972	G
36	5	2983	C
36	5	2990	G
36	5	2996	U
36	5	2997	G
36	5	3012	A
36	5	3029	A
36	5	3030	G
36	5	3049	A
36	5	3056	U
36	5	3059	G
36	5	3069	G
36	5	3078	U
36	5	3079	U
36	5	3084	C
36	5	3086	A
36	5	3092	C
36	5	3119	U
36	5	3122	A
36	5	3127	A
36	5	3130	A
36	5	3131	U
36	5	3139	A
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	3167	A

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Mol	Chain	Res	Type
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	3207	U
36	5	3209	A
36	5	3214	U
36	5	3217	C
36	5	3218	A
36	5	3219	G
36	5	3227	A
36	5	3229	G
36	5	3239	G
36	5	3243	A
36	5	3245	A
36	5	3246	G
36	5	3247	G
36	5	3249	C
36	5	3253	G
36	5	3259	U
36	5	3265	C
36	5	3270	U
36	5	3273	A
36	5	3275	U
36	5	3276	G
36	5	3277	U
36	5	3279	A
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

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Mol	Chain	Res	Type
36	5	3290	G
36	5	3294	A
36	5	3304	U
36	5	3313	U
36	5	3316	A
36	5	3317	U
36	5	3319	U
36	5	3320	A
36	5	3341	U
36	5	3342	A
36	5	3345	G
36	5	3351	U
36	5	3353	G
36	5	3354	U
36	5	3356	G
36	5	3358	U
36	5	3368	U
36	5	3369	G
36	5	3378	C
36	5	3383	G
36	5	3389	U
36	5	3390	G
36	5	3396	U
37	7	7	G
37	7	19	C
37	7	22	A
37	7	42	A
37	7	45	A
37	7	49	G
37	7	51	A
37	7	54	U
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	93	C
37	7	99	G
37	7	101	G
37	7	102	A
37	7	103	A
37	7	104	A
37	7	112	G

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Mol	Chain	Res	Type
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	59	A
38	8	62	C
38	8	63	G
38	8	71	A
38	8	79	A
38	8	80	A
38	8	81	U
38	8	84	C
38	8	86	U
38	8	87	G
38	8	88	A
38	8	90	U
38	8	95	G
38	8	97	A
38	8	102	U
38	8	104	A
38	8	105	A
38	8	106	C
38	8	111	A
38	8	112	U
38	8	113	U
38	8	116	G
38	8	125	U
38	8	126	A
38	8	127	U
38	8	138	A
38	8	152	G
38	8	155	A
38	8	156	U
38	8	157	U
38	8	158	U

All (230) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type
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Mol	Chain	Res	Type
1	2	25	C
1	2	45	U
1	2	68	A
1	2	73	U
1	2	114	C
1	2	130	C
1	2	131	C
1	2	139	C
1	2	158	U
1	2	218	A
1	2	240	U
1	2	277	U
1	2	278	U
1	2	280	U
1	2	417	A
1	2	497	G
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	558	U
1	2	685	A
1	2	704	C
1	2	720	G
1	2	721	U
1	2	755	A
1	2	794	U
1	2	811	A
1	2	1081	A
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	1490	C

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Mol	Chain	Res	Type
1	2	1568	C
1	2	1573	A
1	2	1615	C
1	2	1657	U
1	2	1698	G
1	2	1711	C
1	2	1761	U
36	1	65	A
36	1	210	U
36	1	223	U
36	1	239	G
36	1	282	G
36	1	547	G
36	1	588	G
36	1	594	U
36	1	715	A
36	1	763	G
36	1	873	C
36	1	896	A
36	1	916	G
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1196	C
36	1	1273	A
36	1	1317	A
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1481	A
36	1	1484	U
36	1	1554	U
36	1	1562	C
36	1	1582	C
36	1	1589	A
36	1	1716	U
36	1	1815	U
36	1	1820	U

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Mol	Chain	Res	Type
36	1	1842	A
36	1	2101	C
36	1	2112	U
36	1	2209	U
36	1	2249	G
36	1	2281	A
36	1	2297	U
36	1	2372	A
36	1	2513	U
36	1	2525	G
36	1	2537	U
36	1	2541	U
36	1	2554	A
36	1	2585	G
36	1	2593	A
36	1	3078	U
36	1	3121	U
36	1	3157	U
36	1	3169	U
36	1	3218	A
36	1	3228	C
36	1	3269	U
36	1	3319	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	13	A
37	3	49	G
38	4	85	G
38	4	111	A
38	4	125	U
1	6	25	C
1	6	66	U
1	6	76	A
1	6	114	C
1	6	136	C
1	6	139	C
1	6	158	U
1	6	187	G
1	6	192	U
1	6	217	A

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Mol	Chain	Res	Type
1	6	240	U
1	6	272	U
1	6	277	U
1	6	417	A
1	6	512	A
1	6	542	A
1	6	555	A
1	6	651	G
1	6	678	A
1	6	697	C
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	1081	A
1	6	1097	U
1	6	1207	C
1	6	1227	A
1	6	1244	A
1	6	1255	G
1	6	1344	A
1	6	1481	C
1	6	1489	U
1	6	1491	U
1	6	1535	U
1	6	1568	C
1	6	1573	A
1	6	1615	C
1	6	1620	C
1	6	1657	U
1	6	1696	G
1	6	1698	G
1	6	1700	C
36	5	65	A
36	5	93	C
36	5	151	A
36	5	183	G
36	5	238	A
36	5	588	G
36	5	594	U

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Mol	Chain	Res	Type
36	5	607	A
36	5	715	A
36	5	735	A
36	5	765	C
36	5	873	C
36	5	896	A
36	5	916	G
36	5	993	G
36	5	1027	A
36	5	1064	A
36	5	1081	U
36	5	1152	G
36	5	1192	C
36	5	1222	G
36	5	1238	C
36	5	1241	U
36	5	1284	C
36	5	1307	G
36	5	1308	A
36	5	1329	U
36	5	1331	U
36	5	1352	A
36	5	1355	A
36	5	1481	A
36	5	1554	U
36	5	1560	G
36	5	1580	A
36	5	1716	U
36	5	1816	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	2400	G
36	5	2440	G
36	5	2507	C
36	5	2513	U
36	5	2728	G

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Mol	Chain	Res	Type
36	5	2772	C
36	5	2801	A
36	5	2818	U
36	5	2873	U
36	5	2874	G
36	5	2887	A
36	5	2896	A
36	5	2971	A
36	5	3078	U
36	5	3121	U
36	5	3154	C
36	5	3195	U
36	5	3207	U
36	5	3228	C
36	5	3269	U
36	5	3289	G
36	5	3340	G
36	5	3341	U
36	5	3357	U
37	7	49	G
38	8	126	A

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2030 ligands modelled in this entry, 995 are monoatomic - leaving 1035 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	1	3854	-	0,6,6	-	-	-		
85	OHX	1	3901	-	0,6,6	-	-	-		
85	OHX	5	3782	-	0,6,6	-	-	-		
85	OHX	6	2078	-	0,6,6	-	-	-		
85	OHX	n3	202	-	0,6,6	-	-	-		
85	OHX	1	3955	-	0,6,6	-	-	-		
85	OHX	1	3930	-	0,6,6	-	-	-		
85	OHX	5	3847	-	0,6,6	-	-	-		
85	OHX	5	4000	-	0,6,6	-	-	-		
85	OHX	2	2065	-	0,6,6	-	-	-		
85	OHX	5	3979	-	0,6,6	-	-	-		
85	OHX	6	2071	-	0,6,6	-	-	-		
85	OHX	7	214	-	0,6,6	-	-	-		
85	OHX	1	3820	-	0,6,6	-	-	-		
85	OHX	1	4001	-	0,6,6	-	-	-		
85	OHX	5	3801	-	0,6,6	-	-	-		
85	OHX	N9	101	-	0,6,6	-	-	-		
85	OHX	M9	201	-	0,6,6	-	-	-		
85	OHX	5	3747	-	0,6,6	-	-	-		
85	OHX	5	3876	-	0,6,6	-	-	-		
85	OHX	6	2112	-	0,6,6	-	-	-		
85	OHX	3	217	-	0,6,6	-	-	-		
85	OHX	1	3741	-	0,6,6	-	-	-		
85	OHX	1	3826	-	0,6,6	-	-	-		
85	OHX	5	3849	-	0,6,6	-	-	-		
85	OHX	1	3757	-	0,6,6	-	-	-		
85	OHX	5	3798	-	0,6,6	-	-	-		
85	OHX	1	3871	-	0,6,6	-	-	-		
85	OHX	5	3900	-	0,6,6	-	-	-		
85	OHX	5	3835	-	0,6,6	-	-	-		
85	OHX	1	3881	-	0,6,6	-	-	-		
85	OHX	1	3748	-	0,6,6	-	-	-		
85	OHX	5	3755	-	0,6,6	-	-	-		
85	OHX	5	3809	-	0,6,6	-	-	-		
85	OHX	2	2048	-	0,6,6	-	-	-		
85	OHX	7	211	-	0,6,6	-	-	-		
85	OHX	o7	502	-	0,6,6	-	-	-		
85	OHX	5	3938	-	0,6,6	-	-	-		
85	OHX	7	213	-	0,6,6	-	-	-		
85	OHX	2	2014	-	0,6,6	-	-	-		
85	OHX	5	3785	-	0,6,6	-	-	-		
85	OHX	1	3917	-	0,6,6	-	-	-		
85	OHX	6	2087	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	2060	-	0,6,6	-	-	-		
85	OHX	6	2120	-	0,6,6	-	-	-		
85	OHX	5	3764	-	0,6,6	-	-	-		
85	OHX	15	302	-	0,6,6	-	-	-		
85	OHX	1	4009	-	0,6,6	-	-	-		
85	OHX	6	2135	-	0,6,6	-	-	-		
85	OHX	1	3837	-	0,6,6	-	-	-		
85	OHX	6	2095	-	0,6,6	-	-	-		
85	OHX	1	3846	-	0,6,6	-	-	-		
85	OHX	6	2098	-	0,6,6	-	-	-		
85	OHX	6	2011	-	0,6,6	-	-	-		
85	OHX	1	3940	-	0,6,6	-	-	-		
85	OHX	1	3991	-	0,6,6	-	-	-		
85	OHX	6	2124	-	0,6,6	-	-	-		
85	OHX	4	228	-	0,6,6	-	-	-		
85	OHX	5	3954	-	0,6,6	-	-	-		
85	OHX	5	3793	-	0,6,6	-	-	-		
85	OHX	5	3929	-	0,6,6	-	-	-		
85	OHX	6	2049	-	0,6,6	-	-	-		
85	OHX	1	4030	-	0,6,6	-	-	-		
85	OHX	5	4070	-	0,6,6	-	-	-		
85	OHX	5	4053	-	0,6,6	-	-	-		
85	OHX	1	3862	-	0,6,6	-	-	-		
85	OHX	5	4026	-	0,6,6	-	-	-		
85	OHX	1	3920	-	0,6,6	-	-	-		
85	OHX	1	3840	-	0,6,6	-	-	-		
85	OHX	5	3804	-	0,6,6	-	-	-		
85	OHX	1	3787	-	0,6,6	-	-	-		
85	OHX	5	3884	-	0,6,6	-	-	-		
85	OHX	5	3951	-	0,6,6	-	-	-		
85	OHX	1	3868	-	0,6,6	-	-	-		
85	OHX	5	4024	-	0,6,6	-	-	-		
85	OHX	5	3942	-	0,6,6	-	-	-		
85	OHX	1	3952	-	0,6,6	-	-	-		
85	OHX	5	3927	-	0,6,6	-	-	-		
85	OHX	1	4032	-	0,6,6	-	-	-		
85	OHX	7	218	-	0,6,6	-	-	-		
85	OHX	6	2021	-	0,6,6	-	-	-		
85	OHX	5	3922	-	0,6,6	-	-	-		
85	OHX	5	3966	-	0,6,6	-	-	-		
85	OHX	1	3921	-	0,6,6	-	-	-		
85	OHX	4	222	-	0,6,6	-	-	-		
85	OHX	2	2087	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	S6	301	-	0,6,6	-	-	-		
85	OHX	1	3749	-	0,6,6	-	-	-		
85	OHX	1	3828	-	0,6,6	-	-	-		
85	OHX	6	2138	-	0,6,6	-	-	-		
85	OHX	2	2073	-	0,6,6	-	-	-		
85	OHX	5	3773	-	0,6,6	-	-	-		
85	OHX	2	2119	-	0,6,6	-	-	-		
85	OHX	5	3756	-	0,6,6	-	-	-		
85	OHX	5	3826	-	0,6,6	-	-	-		
85	OHX	5	3909	-	0,6,6	-	-	-		
85	OHX	5	4022	-	0,6,6	-	-	-		
85	OHX	8	225	-	0,6,6	-	-	-		
85	OHX	O7	105	-	0,6,6	-	-	-		
85	OHX	6	2094	-	0,6,6	-	-	-		
85	OHX	5	3919	-	0,6,6	-	-	-		
85	OHX	5	3997	-	0,6,6	-	-	-		
85	OHX	5	4003	-	0,6,6	-	-	-		
85	OHX	1	3779	-	0,6,6	-	-	-		
85	OHX	4	219	-	0,6,6	-	-	-		
85	OHX	5	3834	-	0,6,6	-	-	-		
85	OHX	1	3965	-	0,6,6	-	-	-		
85	OHX	5	3845	-	0,6,6	-	-	-		
85	OHX	5	3784	-	0,6,6	-	-	-		
85	OHX	1	3783	-	0,6,6	-	-	-		
85	OHX	1	3817	-	0,6,6	-	-	-		
85	OHX	1	3889	-	0,6,6	-	-	-		
85	OHX	5	3753	-	0,6,6	-	-	-		
85	OHX	1	3913	-	0,6,6	-	-	-		
85	OHX	1	3898	-	0,6,6	-	-	-		
85	OHX	1	3874	-	0,6,6	-	-	-		
85	OHX	6	2048	-	0,6,6	-	-	-		
85	OHX	6	2028	-	0,6,6	-	-	-		
85	OHX	1	4004	-	0,6,6	-	-	-		
85	OHX	6	2107	-	0,6,6	-	-	-		
85	OHX	5	3814	-	0,6,6	-	-	-		
85	OHX	5	3768	-	0,6,6	-	-	-		
85	OHX	1	3791	-	0,6,6	-	-	-		
85	OHX	5	4044	-	0,6,6	-	-	-		
85	OHX	1	4028	-	0,6,6	-	-	-		
85	OHX	5	3833	-	0,6,6	-	-	-		
85	OHX	1	4033	-	0,6,6	-	-	-		
85	OHX	s9	201	-	0,6,6	-	-	-		
85	OHX	2	2021	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3812	-	0,6,6	-	-	-		
85	OHX	5	3905	-	0,6,6	-	-	-		
85	OHX	1	4007	-	0,6,6	-	-	-		
85	OHX	5	3816	-	0,6,6	-	-	-		
85	OHX	1	4002	-	0,6,6	-	-	-		
85	OHX	1	3978	-	0,6,6	-	-	-		
85	OHX	5	3795	-	0,6,6	-	-	-		
85	OHX	5	4068	-	0,6,6	-	-	-		
85	OHX	6	2105	-	0,6,6	-	-	-		
85	OHX	2	2106	-	0,6,6	-	-	-		
85	OHX	1	3931	-	0,6,6	-	-	-		
85	OHX	5	3989	-	0,6,6	-	-	-		
85	OHX	5	3975	-	0,6,6	-	-	-		
85	OHX	5	4017	-	0,6,6	-	-	-		
85	OHX	6	2032	-	0,6,6	-	-	-		
85	OHX	6	2020	-	0,6,6	-	-	-		
85	OHX	8	223	-	0,6,6	-	-	-		
85	OHX	6	2083	-	0,6,6	-	-	-		
85	OHX	6	2092	-	0,6,6	-	-	-		
85	OHX	1	3806	-	0,6,6	-	-	-		
85	OHX	1	3742	-	0,6,6	-	-	-		
85	OHX	5	3949	-	0,6,6	-	-	-		
85	OHX	5	4031	-	0,6,6	-	-	-		
85	OHX	1	3823	-	0,6,6	-	-	-		
85	OHX	S8	301	-	0,6,6	-	-	-		
85	OHX	c5	201	-	0,6,6	-	-	-		
85	OHX	5	3820	-	0,6,6	-	-	-		
85	OHX	2	2099	-	0,6,6	-	-	-		
85	OHX	5	3915	-	0,6,6	-	-	-		
85	OHX	1	3799	-	0,6,6	-	-	-		
85	OHX	1	4000	-	0,6,6	-	-	-		
85	OHX	1	3818	-	0,6,6	-	-	-		
85	OHX	5	3761	-	0,6,6	-	-	-		
85	OHX	6	2046	-	0,6,6	-	-	-		
85	OHX	6	2072	-	0,6,6	-	-	-		
85	OHX	5	3745	-	0,6,6	-	-	-		
85	OHX	5	3865	-	0,6,6	-	-	-		
85	OHX	5	3928	-	0,6,6	-	-	-		
85	OHX	5	4006	-	0,6,6	-	-	-		
85	OHX	3	210	-	0,6,6	-	-	-		
85	OHX	5	3947	-	0,6,6	-	-	-		
85	OHX	l3	406	-	0,6,6	-	-	-		
85	OHX	2	2089	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	4008	-	0,6,6	-	-	-		
85	OHX	d4	201	-	0,6,6	-	-	-		
85	OHX	6	2084	-	0,6,6	-	-	-		
85	OHX	5	3859	-	0,6,6	-	-	-		
85	OHX	5	3899	-	0,6,6	-	-	-		
85	OHX	1	3963	-	0,6,6	-	-	-		
85	OHX	2	1997	-	0,6,6	-	-	-		
85	OHX	5	3860	-	0,6,6	-	-	-		
85	OHX	1	3755	-	0,6,6	-	-	-		
85	OHX	1	3788	-	0,6,6	-	-	-		
85	OHX	6	2026	-	0,6,6	-	-	-		
85	OHX	5	3972	-	0,6,6	-	-	-		
85	OHX	7	220	-	0,6,6	-	-	-		
85	OHX	1	3938	-	0,6,6	-	-	-		
85	OHX	5	3796	-	0,6,6	-	-	-		
85	OHX	1	3977	-	0,6,6	-	-	-		
85	OHX	5	3837	-	0,6,6	-	-	-		
85	OHX	14	401	-	0,6,6	-	-	-		
85	OHX	2	2105	-	0,6,6	-	-	-		
85	OHX	1	3739	-	0,6,6	-	-	-		
85	OHX	1	3775	-	0,6,6	-	-	-		
85	OHX	5	4033	-	0,6,6	-	-	-		
85	OHX	2	2016	-	0,6,6	-	-	-		
85	OHX	1	3986	-	0,6,6	-	-	-		
85	OHX	2	2053	-	0,6,6	-	-	-		
85	OHX	6	2036	-	0,6,6	-	-	-		
85	OHX	5	3925	-	0,6,6	-	-	-		
85	OHX	1	3872	-	0,6,6	-	-	-		
85	OHX	6	2082	-	0,6,6	-	-	-		
85	OHX	5	3752	-	0,6,6	-	-	-		
85	OHX	5	3744	-	0,6,6	-	-	-		
85	OHX	5	4059	-	0,6,6	-	-	-		
85	OHX	6	2101	-	0,6,6	-	-	-		
85	OHX	5	3821	-	0,6,6	-	-	-		
85	OHX	8	218	-	0,6,6	-	-	-		
85	OHX	5	3888	-	0,6,6	-	-	-		
85	OHX	6	2075	-	0,6,6	-	-	-		
85	OHX	2	2045	-	0,6,6	-	-	-		
85	OHX	1	3793	-	0,6,6	-	-	-		
85	OHX	1	3824	-	0,6,6	-	-	-		
85	OHX	6	2041	-	0,6,6	-	-	-		
85	OHX	5	3803	-	0,6,6	-	-	-		
85	OHX	5	3886	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	4046	-	0,6,6	-	-	-		
85	OHX	5	4064	-	0,6,6	-	-	-		
85	OHX	m1	202	-	0,6,6	-	-	-		
85	OHX	2	2068	-	0,6,6	-	-	-		
85	OHX	2	2088	-	0,6,6	-	-	-		
85	OHX	1	3890	-	0,6,6	-	-	-		
85	OHX	3	218	-	0,6,6	-	-	-		
85	OHX	5	3875	-	0,6,6	-	-	-		
85	OHX	1	3831	-	0,6,6	-	-	-		
85	OHX	5	4045	-	0,6,6	-	-	-		
85	OHX	5	3974	-	0,6,6	-	-	-		
85	OHX	1	4024	-	0,6,6	-	-	-		
85	OHX	6	2133	-	0,6,6	-	-	-		
85	OHX	5	4039	-	0,6,6	-	-	-		
85	OHX	2	2093	-	0,6,6	-	-	-		
85	OHX	2	2100	-	0,6,6	-	-	-		
85	OHX	6	2137	-	0,6,6	-	-	-		
85	OHX	1	3990	-	0,6,6	-	-	-		
85	OHX	5	3873	-	0,6,6	-	-	-		
85	OHX	6	2125	-	0,6,6	-	-	-		
85	OHX	5	3977	-	0,6,6	-	-	-		
85	OHX	2	1993	-	0,6,6	-	-	-		
85	OHX	1	3816	-	0,6,6	-	-	-		
85	OHX	6	2024	-	0,6,6	-	-	-		
85	OHX	1	3847	-	0,6,6	-	-	-		
85	OHX	L3	402	-	0,6,6	-	-	-		
85	OHX	1	4029	-	0,6,6	-	-	-		
85	OHX	2	2031	-	0,6,6	-	-	-		
85	OHX	5	3994	-	0,6,6	-	-	-		
85	OHX	6	2081	-	0,6,6	-	-	-		
85	OHX	2	2025	-	0,6,6	-	-	-		
85	OHX	1	3954	-	0,6,6	-	-	-		
85	OHX	1	3773	-	0,6,6	-	-	-		
85	OHX	8	221	-	0,6,6	-	-	-		
85	OHX	6	2103	-	0,6,6	-	-	-		
85	OHX	1	3756	-	0,6,6	-	-	-		
85	OHX	1	3909	-	0,6,6	-	-	-		
85	OHX	5	4036	-	0,6,6	-	-	-		
85	OHX	4	227	-	0,6,6	-	-	-		
85	OHX	2	2036	-	0,6,6	-	-	-		
85	OHX	6	2043	-	0,6,6	-	-	-		
85	OHX	5	3805	-	0,6,6	-	-	-		
85	OHX	5	3877	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	5	3921	-	0,6,6	-	-	-		
85	OHX	5	4061	-	0,6,6	-	-	-		
85	OHX	2	2075	-	0,6,6	-	-	-		
85	OHX	1	3996	-	0,6,6	-	-	-		
85	OHX	M5	302	-	0,6,6	-	-	-		
85	OHX	6	2061	-	0,6,6	-	-	-		
85	OHX	5	3757	-	0,6,6	-	-	-		
85	OHX	4	225	-	0,6,6	-	-	-		
85	OHX	5	3800	-	0,6,6	-	-	-		
85	OHX	2	1999	-	0,6,6	-	-	-		
85	OHX	1	3842	-	0,6,6	-	-	-		
85	OHX	5	3944	-	0,6,6	-	-	-		
85	OHX	2	2029	-	0,6,6	-	-	-		
85	OHX	1	3764	-	0,6,6	-	-	-		
85	OHX	5	3852	-	0,6,6	-	-	-		
85	OHX	1	3802	-	0,6,6	-	-	-		
85	OHX	5	3774	-	0,6,6	-	-	-		
85	OHX	1	3839	-	0,6,6	-	-	-		
85	OHX	m7	204	-	0,6,6	-	-	-		
85	OHX	6	2053	-	0,6,6	-	-	-		
85	OHX	5	4069	-	0,6,6	-	-	-		
85	OHX	1	3790	-	0,6,6	-	-	-		
85	OHX	1	3935	-	0,6,6	-	-	-		
85	OHX	1	3895	-	0,6,6	-	-	-		
85	OHX	8	211	-	0,6,6	-	-	-		
85	OHX	2	2061	-	0,6,6	-	-	-		
85	OHX	1	3766	-	0,6,6	-	-	-		
85	OHX	1	3768	-	0,6,6	-	-	-		
85	OHX	1	3814	-	0,6,6	-	-	-		
85	OHX	5	3913	-	0,6,6	-	-	-		
85	OHX	5	3869	-	0,6,6	-	-	-		
85	OHX	1	3833	-	0,6,6	-	-	-		
85	OHX	6	2033	-	0,6,6	-	-	-		
85	OHX	6	2106	-	0,6,6	-	-	-		
85	OHX	1	3843	-	0,6,6	-	-	-		
85	OHX	C8	201	-	0,6,6	-	-	-		
85	OHX	1	3813	-	0,6,6	-	-	-		
85	OHX	6	2068	-	0,6,6	-	-	-		
85	OHX	1	4017	-	0,6,6	-	-	-		
85	OHX	5	4042	-	0,6,6	-	-	-		
85	OHX	2	2010	-	0,6,6	-	-	-		
85	OHX	1	3849	-	0,6,6	-	-	-		
85	OHX	5	3934	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	2	1994	-	0,6,6	-	-	-		
85	OHX	5	3965	-	0,6,6	-	-	-		
85	OHX	1	4031	-	0,6,6	-	-	-		
85	OHX	5	3812	-	0,6,6	-	-	-		
85	OHX	5	3763	-	0,6,6	-	-	-		
85	OHX	5	4060	-	0,6,6	-	-	-		
85	OHX	1	3727	-	0,6,6	-	-	-		
85	OHX	2	2028	-	0,6,6	-	-	-		
85	OHX	5	3889	-	0,6,6	-	-	-		
85	OHX	5	3950	-	0,6,6	-	-	-		
85	OHX	2	2043	-	0,6,6	-	-	-		
85	OHX	2	2049	-	0,6,6	-	-	-		
85	OHX	2	2097	-	0,6,6	-	-	-		
85	OHX	6	2139	-	0,6,6	-	-	-		
85	OHX	2	2077	-	0,6,6	-	-	-		
85	OHX	1	3760	-	0,6,6	-	-	-		
85	OHX	3	214	-	0,6,6	-	-	-		
85	OHX	1	3765	-	0,6,6	-	-	-		
85	OHX	6	2073	-	0,6,6	-	-	-		
85	OHX	6	2097	-	0,6,6	-	-	-		
85	OHX	2	2079	-	0,6,6	-	-	-		
85	OHX	5	3771	-	0,6,6	-	-	-		
85	OHX	1	3729	-	0,6,6	-	-	-		
85	OHX	1	3740	-	0,6,6	-	-	-		
85	OHX	1	3865	-	0,6,6	-	-	-		
85	OHX	1	4006	-	0,6,6	-	-	-		
85	OHX	5	3885	-	0,6,6	-	-	-		
85	OHX	1	3897	-	0,6,6	-	-	-		
85	OHX	1	3974	-	0,6,6	-	-	-		
85	OHX	2	2037	-	0,6,6	-	-	-		
85	OHX	1	4035	-	0,6,6	-	-	-		
85	OHX	1	3900	-	0,6,6	-	-	-		
85	OHX	5	3948	-	0,6,6	-	-	-		
85	OHX	8	212	-	0,6,6	-	-	-		
85	OHX	1	3835	-	0,6,6	-	-	-		
85	OHX	2	2078	-	0,6,6	-	-	-		
85	OHX	1	4022	-	0,6,6	-	-	-		
85	OHX	1	3908	-	0,6,6	-	-	-		
85	OHX	2	2062	-	0,6,6	-	-	-		
85	OHX	2	1995	-	0,6,6	-	-	-		
85	OHX	3	216	-	0,6,6	-	-	-		
85	OHX	2	2104	-	0,6,6	-	-	-		
85	OHX	1	3859	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	O3	202	-	0,6,6	-	-	-		
85	OHX	1	3876	-	0,6,6	-	-	-		
85	OHX	3	211	-	0,6,6	-	-	-		
85	OHX	5	3818	-	0,6,6	-	-	-		
85	OHX	1	3860	-	0,6,6	-	-	-		
85	OHX	1	3933	-	0,6,6	-	-	-		
85	OHX	1	3923	-	0,6,6	-	-	-		
85	OHX	5	3969	-	0,6,6	-	-	-		
85	OHX	2	2050	-	0,6,6	-	-	-		
85	OHX	1	3784	-	0,6,6	-	-	-		
85	OHX	5	4016	-	0,6,6	-	-	-		
85	OHX	1	3910	-	0,6,6	-	-	-		
85	OHX	5	3746	-	0,6,6	-	-	-		
85	OHX	5	3984	-	0,6,6	-	-	-		
85	OHX	8	213	-	0,6,6	-	-	-		
85	OHX	O7	104	-	0,6,6	-	-	-		
85	OHX	6	2122	-	0,6,6	-	-	-		
85	OHX	8	224	-	0,6,6	-	-	-		
85	OHX	2	2041	-	0,6,6	-	-	-		
85	OHX	o3	202	-	0,6,6	-	-	-		
85	OHX	1	4023	-	0,6,6	-	-	-		
85	OHX	2	2072	-	0,6,6	-	-	-		
85	OHX	5	3893	-	0,6,6	-	-	-		
85	OHX	1	4036	-	0,6,6	-	-	-		
85	OHX	m0	302	-	0,6,6	-	-	-		
85	OHX	2	2015	-	0,6,6	-	-	-		
85	OHX	6	2025	-	0,6,6	-	-	-		
85	OHX	1	3850	-	0,6,6	-	-	-		
85	OHX	5	3841	-	0,6,6	-	-	-		
85	OHX	2	2108	-	0,6,6	-	-	-		
85	OHX	2	2055	-	0,6,6	-	-	-		
85	OHX	5	3794	-	0,6,6	-	-	-		
85	OHX	7	221	-	0,6,6	-	-	-		
85	OHX	1	3858	-	0,6,6	-	-	-		
85	OHX	1	3822	-	0,6,6	-	-	-		
85	OHX	1	3803	-	0,6,6	-	-	-		
85	OHX	1	3886	-	0,6,6	-	-	-		
85	OHX	5	3957	-	0,6,6	-	-	-		
85	OHX	2	2009	-	0,6,6	-	-	-		
85	OHX	6	2099	-	0,6,6	-	-	-		
85	OHX	1	3857	-	0,6,6	-	-	-		
85	OHX	L3	403	-	0,6,6	-	-	-		
85	OHX	5	3769	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	5	3963	-	0,6,6	-	-	-		
85	OHX	5	3751	-	0,6,6	-	-	-		
85	OHX	6	2143	-	0,6,6	-	-	-		
85	OHX	5	4020	-	0,6,6	-	-	-		
85	OHX	1	4026	-	0,6,6	-	-	-		
85	OHX	1	3877	-	0,6,6	-	-	-		
85	OHX	1	3976	-	0,6,6	-	-	-		
85	OHX	5	3861	-	0,6,6	-	-	-		
85	OHX	2	2003	-	0,6,6	-	-	-		
85	OHX	5	3923	-	0,6,6	-	-	-		
85	OHX	1	3853	-	0,6,6	-	-	-		
85	OHX	5	3998	-	0,6,6	-	-	-		
85	OHX	6	2147	-	0,6,6	-	-	-		
85	OHX	1	3836	-	0,6,6	-	-	-		
85	OHX	5	3967	-	0,6,6	-	-	-		
85	OHX	C3	201	-	0,6,6	-	-	-		
85	OHX	5	3953	-	0,6,6	-	-	-		
85	OHX	6	2089	-	0,6,6	-	-	-		
85	OHX	1	3832	-	0,6,6	-	-	-		
85	OHX	1	3928	-	0,6,6	-	-	-		
85	OHX	3	213	-	0,6,6	-	-	-		
85	OHX	5	3810	-	0,6,6	-	-	-		
85	OHX	m5	305	-	0,6,6	-	-	-		
85	OHX	5	3924	-	0,6,6	-	-	-		
85	OHX	5	3872	-	0,6,6	-	-	-		
85	OHX	5	3808	-	0,6,6	-	-	-		
85	OHX	5	3926	-	0,6,6	-	-	-		
85	OHX	1	3936	-	0,6,6	-	-	-		
85	OHX	L4	401	-	0,6,6	-	-	-		
85	OHX	6	2088	-	0,6,6	-	-	-		
85	OHX	1	3941	-	0,6,6	-	-	-		
85	OHX	6	2019	-	0,6,6	-	-	-		
85	OHX	5	3766	-	0,6,6	-	-	-		
85	OHX	6	2062	-	0,6,6	-	-	-		
85	OHX	5	3912	-	0,6,6	-	-	-		
85	OHX	5	4051	-	0,6,6	-	-	-		
85	OHX	1	4012	-	0,6,6	-	-	-		
85	OHX	1	3956	-	0,6,6	-	-	-		
85	OHX	5	3932	-	0,6,6	-	-	-		
85	OHX	5	4001	-	0,6,6	-	-	-		
85	OHX	6	2063	-	0,6,6	-	-	-		
85	OHX	1	3805	-	0,6,6	-	-	-		
85	OHX	1	3948	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3786	-	0,6,6	-	-	-		
85	OHX	5	4005	-	0,6,6	-	-	-		
85	OHX	M7	205	-	0,6,6	-	-	-		
85	OHX	6	2044	-	0,6,6	-	-	-		
85	OHX	2	2069	-	0,6,6	-	-	-		
85	OHX	1	3767	-	0,6,6	-	-	-		
85	OHX	8	219	-	0,6,6	-	-	-		
85	OHX	6	2030	-	0,6,6	-	-	-		
85	OHX	1	3852	-	0,6,6	-	-	-		
85	OHX	1	3738	-	0,6,6	-	-	-		
85	OHX	2	2012	-	0,6,6	-	-	-		
85	OHX	4	230	-	0,6,6	-	-	-		
85	OHX	1	3774	-	0,6,6	-	-	-		
85	OHX	5	3959	-	0,6,6	-	-	-		
85	OHX	1	3919	-	0,6,6	-	-	-		
85	OHX	m5	304	-	0,6,6	-	-	-		
85	OHX	1	3989	-	0,6,6	-	-	-		
85	OHX	5	3777	-	0,6,6	-	-	-		
85	OHX	2	2074	-	0,6,6	-	-	-		
85	OHX	1	3937	-	0,6,6	-	-	-		
85	OHX	6	2035	-	0,6,6	-	-	-		
85	OHX	1	3958	-	0,6,6	-	-	-		
85	OHX	4	217	-	0,6,6	-	-	-		
85	OHX	5	3904	-	0,6,6	-	-	-		
85	OHX	5	3862	-	0,6,6	-	-	-		
85	OHX	5	3874	-	0,6,6	-	-	-		
85	OHX	6	2148	-	0,6,6	-	-	-		
85	OHX	2	2013	-	0,6,6	-	-	-		
85	OHX	3	219	-	0,6,6	-	-	-		
85	OHX	5	4004	-	0,6,6	-	-	-		
85	OHX	5	3802	-	0,6,6	-	-	-		
85	OHX	1	3851	-	0,6,6	-	-	-		
85	OHX	5	3882	-	0,6,6	-	-	-		
85	OHX	N1	201	-	0,6,6	-	-	-		
85	OHX	2	2008	-	0,6,6	-	-	-		
85	OHX	5	3791	-	0,6,6	-	-	-		
85	OHX	5	3830	-	0,6,6	-	-	-		
85	OHX	2	2076	-	0,6,6	-	-	-		
85	OHX	5	4030	-	0,6,6	-	-	-		
85	OHX	2	2086	-	0,6,6	-	-	-		
85	OHX	1	3728	-	0,6,6	-	-	-		
85	OHX	5	3897	-	0,6,6	-	-	-		
85	OHX	6	2152	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	5	3978	-	0,6,6	-	-	-		
85	OHX	1	3950	-	0,6,6	-	-	-		
85	OHX	1	3927	-	0,6,6	-	-	-		
85	OHX	6	2093	-	0,6,6	-	-	-		
85	OHX	1	3973	-	0,6,6	-	-	-		
85	OHX	1	3856	-	0,6,6	-	-	-		
85	OHX	1	4008	-	0,6,6	-	-	-		
85	OHX	1	3771	-	0,6,6	-	-	-		
85	OHX	5	3910	-	0,6,6	-	-	-		
85	OHX	1	3994	-	0,6,6	-	-	-		
85	OHX	6	2157	-	0,6,6	-	-	-		
85	OHX	5	3936	-	0,6,6	-	-	-		
85	OHX	5	4052	-	0,6,6	-	-	-		
85	OHX	1	3885	-	0,6,6	-	-	-		
85	OHX	2	2044	-	0,6,6	-	-	-		
85	OHX	1	3946	-	0,6,6	-	-	-		
85	OHX	1	3982	-	0,6,6	-	-	-		
85	OHX	2	2034	-	0,6,6	-	-	-		
85	OHX	q2	502	-	0,6,6	-	-	-		
85	OHX	5	3903	-	0,6,6	-	-	-		
85	OHX	6	2086	-	0,6,6	-	-	-		
85	OHX	1	3972	-	0,6,6	-	-	-		
85	OHX	2	2114	-	0,6,6	-	-	-		
85	OHX	2	2090	-	0,6,6	-	-	-		
85	OHX	1	3894	-	0,6,6	-	-	-		
85	OHX	2	1986	-	0,6,6	-	-	-		
85	OHX	n3	203	-	0,6,6	-	-	-		
85	OHX	2	2110	-	0,6,6	-	-	-		
85	OHX	6	2146	-	0,6,6	-	-	-		
85	OHX	5	3789	-	0,6,6	-	-	-		
85	OHX	1	3892	-	0,6,6	-	-	-		
85	OHX	5	3962	-	0,6,6	-	-	-		
85	OHX	5	3887	-	0,6,6	-	-	-		
85	OHX	2	2083	-	0,6,6	-	-	-		
85	OHX	2	2067	-	0,6,6	-	-	-		
85	OHX	2	2111	-	0,6,6	-	-	-		
85	OHX	1	4016	-	0,6,6	-	-	-		
85	OHX	6	2117	-	0,6,6	-	-	-		
85	OHX	5	3958	-	0,6,6	-	-	-		
85	OHX	1	3944	-	0,6,6	-	-	-		
85	OHX	1	3896	-	0,6,6	-	-	-		
85	OHX	5	3815	-	0,6,6	-	-	-		
85	OHX	5	4027	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3752	-	0,6,6	-	-	-		
85	OHX	1	3815	-	0,6,6	-	-	-		
85	OHX	5	3990	-	0,6,6	-	-	-		
85	OHX	1	3801	-	0,6,6	-	-	-		
85	OHX	1	3987	-	0,6,6	-	-	-		
85	OHX	2	2058	-	0,6,6	-	-	-		
85	OHX	1	3992	-	0,6,6	-	-	-		
85	OHX	1	3769	-	0,6,6	-	-	-		
85	OHX	5	4037	-	0,6,6	-	-	-		
85	OHX	5	3940	-	0,6,6	-	-	-		
85	OHX	1	3878	-	0,6,6	-	-	-		
85	OHX	6	2029	-	0,6,6	-	-	-		
85	OHX	6	2151	-	0,6,6	-	-	-		
85	OHX	5	3844	-	0,6,6	-	-	-		
85	OHX	8	220	-	0,6,6	-	-	-		
85	OHX	5	4048	-	0,6,6	-	-	-		
85	OHX	2	2118	-	0,6,6	-	-	-		
85	OHX	1	3794	-	0,6,6	-	-	-		
85	OHX	1	3869	-	0,6,6	-	-	-		
85	OHX	2	2059	-	0,6,6	-	-	-		
85	OHX	6	2131	-	0,6,6	-	-	-		
85	OHX	6	2066	-	0,6,6	-	-	-		
85	OHX	6	2050	-	0,6,6	-	-	-		
85	OHX	2	2103	-	0,6,6	-	-	-		
85	OHX	2	2084	-	0,6,6	-	-	-		
85	OHX	1	3905	-	0,6,6	-	-	-		
85	OHX	5	3986	-	0,6,6	-	-	-		
85	OHX	1	3776	-	0,6,6	-	-	-		
85	OHX	1	3750	-	0,6,6	-	-	-		
85	OHX	5	3850	-	0,6,6	-	-	-		
85	OHX	13	407	-	0,6,6	-	-	-		
85	OHX	6	2109	-	0,6,6	-	-	-		
85	OHX	5	3748	-	0,6,6	-	-	-		
85	OHX	5	3824	-	0,6,6	-	-	-		
85	OHX	1	3998	-	0,6,6	-	-	-		
85	OHX	2	1984	-	0,6,6	-	-	-		
85	OHX	C5	201	-	0,6,6	-	-	-		
85	OHX	5	4015	-	0,6,6	-	-	-		
85	OHX	5	4066	-	0,6,6	-	-	-		
85	OHX	1	3939	-	0,6,6	-	-	-		
85	OHX	4	231	-	0,6,6	-	-	-		
85	OHX	2	2070	-	0,6,6	-	-	-		
85	OHX	2	2007	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	6	2067	-	0,6,6	-	-	-		
85	OHX	1	3810	-	0,6,6	-	-	-		
85	OHX	1	3953	-	0,6,6	-	-	-		
85	OHX	6	2038	-	0,6,6	-	-	-		
85	OHX	1	3924	-	0,6,6	-	-	-		
85	OHX	6	2070	-	0,6,6	-	-	-		
85	OHX	5	3770	-	0,6,6	-	-	-		
85	OHX	1	3745	-	0,6,6	-	-	-		
85	OHX	5	3846	-	0,6,6	-	-	-		
85	OHX	7	212	-	0,6,6	-	-	-		
85	OHX	2	2085	-	0,6,6	-	-	-		
85	OHX	5	3797	-	0,6,6	-	-	-		
85	OHX	6	2114	-	0,6,6	-	-	-		
85	OHX	5	3799	-	0,6,6	-	-	-		
85	OHX	5	3853	-	0,6,6	-	-	-		
85	OHX	1	3947	-	0,6,6	-	-	-		
85	OHX	5	4050	-	0,6,6	-	-	-		
85	OHX	5	4058	-	0,6,6	-	-	-		
85	OHX	4	224	-	0,6,6	-	-	-		
85	OHX	6	2108	-	0,6,6	-	-	-		
85	OHX	1	3786	-	0,6,6	-	-	-		
85	OHX	5	3838	-	0,6,6	-	-	-		
85	OHX	6	2145	-	0,6,6	-	-	-		
85	OHX	6	2065	-	0,6,6	-	-	-		
85	OHX	1	3782	-	0,6,6	-	-	-		
85	OHX	1	3995	-	0,6,6	-	-	-		
85	OHX	2	2116	-	0,6,6	-	-	-		
85	OHX	1	3891	-	0,6,6	-	-	-		
85	OHX	5	3988	-	0,6,6	-	-	-		
85	OHX	6	2058	-	0,6,6	-	-	-		
85	OHX	1	3942	-	0,6,6	-	-	-		
85	OHX	Q2	503	-	0,6,6	-	-	-		
85	OHX	2	2018	-	0,6,6	-	-	-		
85	OHX	1	3985	-	0,6,6	-	-	-		
85	OHX	2	2039	-	0,6,6	-	-	-		
85	OHX	6	2069	-	0,6,6	-	-	-		
85	OHX	6	2009	-	0,6,6	-	-	-		
85	OHX	6	2013	-	0,6,6	-	-	-		
85	OHX	5	3792	-	0,6,6	-	-	-		
85	OHX	5	3842	-	0,6,6	-	-	-		
85	OHX	5	3807	-	0,6,6	-	-	-		
85	OHX	1	3922	-	0,6,6	-	-	-		
85	OHX	5	3864	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	5	3982	-	0,6,6	-	-	-		
85	OHX	1	3912	-	0,6,6	-	-	-		
85	OHX	8	216	-	0,6,6	-	-	-		
85	OHX	5	4041	-	0,6,6	-	-	-		
85	OHX	6	2074	-	0,6,6	-	-	-		
85	OHX	19	202	-	0,6,6	-	-	-		
85	OHX	2	1991	-	0,6,6	-	-	-		
85	OHX	1	3726	-	0,6,6	-	-	-		
85	OHX	6	2080	-	0,6,6	-	-	-		
85	OHX	SR	401	-	0,6,6	-	-	-		
85	OHX	5	3902	-	0,6,6	-	-	-		
85	OHX	2	2004	-	0,6,6	-	-	-		
85	OHX	6	2060	-	0,6,6	-	-	-		
85	OHX	6	2142	-	0,6,6	-	-	-		
85	OHX	5	3843	-	0,6,6	-	-	-		
85	OHX	1	3997	-	0,6,6	-	-	-		
85	OHX	1	3744	-	0,6,6	-	-	-		
85	OHX	5	3848	-	0,6,6	-	-	-		
85	OHX	2	1988	-	0,6,6	-	-	-		
85	OHX	6	2134	-	0,6,6	-	-	-		
85	OHX	2	2052	-	0,6,6	-	-	-		
85	OHX	1	3888	-	0,6,6	-	-	-		
85	OHX	5	3891	-	0,6,6	-	-	-		
85	OHX	5	3754	-	0,6,6	-	-	-		
85	OHX	1	3808	-	0,6,6	-	-	-		
85	OHX	1	3730	-	0,6,6	-	-	-		
85	OHX	6	2085	-	0,6,6	-	-	-		
85	OHX	5	3811	-	0,6,6	-	-	-		
85	OHX	5	3956	-	0,6,6	-	-	-		
85	OHX	5	3788	-	0,6,6	-	-	-		
85	OHX	1	3903	-	0,6,6	-	-	-		
85	OHX	1	3932	-	0,6,6	-	-	-		
85	OHX	1	3970	-	0,6,6	-	-	-		
85	OHX	1	3789	-	0,6,6	-	-	-		
85	OHX	1	3962	-	0,6,6	-	-	-		
85	OHX	c8	201	-	0,6,6	-	-	-		
85	OHX	5	3952	-	0,6,6	-	-	-		
85	OHX	5	3996	-	0,6,6	-	-	-		
85	OHX	1	3887	-	0,6,6	-	-	-		
85	OHX	5	3851	-	0,6,6	-	-	-		
85	OHX	5	3898	-	0,6,6	-	-	-		
85	OHX	8	215	-	0,6,6	-	-	-		
85	OHX	1	4005	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	1	3834	-	0,6,6	-	-	-		
85	OHX	1	3772	-	0,6,6	-	-	-		
85	OHX	1	4027	-	0,6,6	-	-	-		
85	OHX	5	3911	-	0,6,6	-	-	-		
85	OHX	5	4021	-	0,6,6	-	-	-		
85	OHX	5	3776	-	0,6,6	-	-	-		
85	OHX	2	2057	-	0,6,6	-	-	-		
85	OHX	2	2107	-	0,6,6	-	-	-		
85	OHX	6	2116	-	0,6,6	-	-	-		
85	OHX	2	2056	-	0,6,6	-	-	-		
85	OHX	1	3841	-	0,6,6	-	-	-		
85	OHX	5	3880	-	0,6,6	-	-	-		
85	OHX	5	4019	-	0,6,6	-	-	-		
85	OHX	1	4037	-	0,6,6	-	-	-		
85	OHX	1	3959	-	0,6,6	-	-	-		
85	OHX	5	3943	-	0,6,6	-	-	-		
85	OHX	5	4010	-	0,6,6	-	-	-		
85	OHX	5	3780	-	0,6,6	-	-	-		
85	OHX	1	3870	-	0,6,6	-	-	-		
85	OHX	5	3890	-	0,6,6	-	-	-		
85	OHX	2	2020	-	0,6,6	-	-	-		
85	OHX	5	3806	-	0,6,6	-	-	-		
85	OHX	5	3831	-	0,6,6	-	-	-		
85	OHX	1	3916	-	0,6,6	-	-	-		
85	OHX	5	3930	-	0,6,6	-	-	-		
85	OHX	1	3830	-	0,6,6	-	-	-		
85	OHX	15	301	-	0,6,6	-	-	-		
85	OHX	2	1990	-	0,6,6	-	-	-		
85	OHX	5	3819	-	0,6,6	-	-	-		
85	OHX	5	3827	-	0,6,6	-	-	-		
85	OHX	1	3819	-	0,6,6	-	-	-		
85	OHX	1	3797	-	0,6,6	-	-	-		
85	OHX	1	4020	-	0,6,6	-	-	-		
85	OHX	2	2113	-	0,6,6	-	-	-		
85	OHX	1	4015	-	0,6,6	-	-	-		
85	OHX	2	2046	-	0,6,6	-	-	-		
85	OHX	5	3857	-	0,6,6	-	-	-		
85	OHX	6	2079	-	0,6,6	-	-	-		
85	OHX	5	3961	-	0,6,6	-	-	-		
85	OHX	4	221	-	0,6,6	-	-	-		
85	OHX	5	3906	-	0,6,6	-	-	-		
85	OHX	2	1987	-	0,6,6	-	-	-		
85	OHX	2	2071	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	1	3770	-	0,6,6	-	-	-		
85	OHX	5	3908	-	0,6,6	-	-	-		
85	OHX	2	2094	-	0,6,6	-	-	-		
85	OHX	5	3937	-	0,6,6	-	-	-		
85	OHX	5	3991	-	0,6,6	-	-	-		
85	OHX	6	2016	-	0,6,6	-	-	-		
85	OHX	5	3836	-	0,6,6	-	-	-		
85	OHX	5	3760	-	0,6,6	-	-	-		
85	OHX	5	3765	-	0,6,6	-	-	-		
85	OHX	6	2126	-	0,6,6	-	-	-		
85	OHX	1	3951	-	0,6,6	-	-	-		
85	OHX	1	4013	-	0,6,6	-	-	-		
85	OHX	5	4025	-	0,6,6	-	-	-		
85	OHX	1	3971	-	0,6,6	-	-	-		
85	OHX	1	3899	-	0,6,6	-	-	-		
85	OHX	4	223	-	0,6,6	-	-	-		
85	OHX	5	4018	-	0,6,6	-	-	-		
85	OHX	5	3781	-	0,6,6	-	-	-		
85	OHX	6	2039	-	0,6,6	-	-	-		
85	OHX	7	217	-	0,6,6	-	-	-		
85	OHX	2	2040	-	0,6,6	-	-	-		
85	OHX	5	4011	-	0,6,6	-	-	-		
85	OHX	2	2051	-	0,6,6	-	-	-		
85	OHX	5	4012	-	0,6,6	-	-	-		
85	OHX	6	2113	-	0,6,6	-	-	-		
85	OHX	5	3879	-	0,6,6	-	-	-		
85	OHX	6	2010	-	0,6,6	-	-	-		
85	OHX	2	2080	-	0,6,6	-	-	-		
85	OHX	1	3904	-	0,6,6	-	-	-		
85	OHX	5	4063	-	0,6,6	-	-	-		
85	OHX	O9	101	-	0,6,6	-	-	-		
85	OHX	1	3792	-	0,6,6	-	-	-		
85	OHX	5	3767	-	0,6,6	-	-	-		
85	OHX	2	2047	-	0,6,6	-	-	-		
85	OHX	5	3980	-	0,6,6	-	-	-		
85	OHX	2	2032	-	0,6,6	-	-	-		
85	OHX	1	3907	-	0,6,6	-	-	-		
85	OHX	5	3968	-	0,6,6	-	-	-		
85	OHX	5	3778	-	0,6,6	-	-	-		
85	OHX	1	3777	-	0,6,6	-	-	-		
85	OHX	2	2019	-	0,6,6	-	-	-		
85	OHX	5	3867	-	0,6,6	-	-	-		
85	OHX	o9	101	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	2158	-	0,6,6	-	-	-		
85	OHX	1	3848	-	0,6,6	-	-	-		
85	OHX	1	3785	-	0,6,6	-	-	-		
85	OHX	1	3734	-	0,6,6	-	-	-		
85	OHX	M6	202	-	0,6,6	-	-	-		
85	OHX	1	3821	-	0,6,6	-	-	-		
85	OHX	5	3758	-	0,6,6	-	-	-		
85	OHX	2	2024	-	0,6,6	-	-	-		
85	OHX	2	2042	-	0,6,6	-	-	-		
85	OHX	1	3861	-	0,6,6	-	-	-		
87	ANM	1	3401	-	20,20,20	3.12	9 (45%)	24,27,27	2.84	11 (45%)
85	OHX	2	2001	-	0,6,6	-	-	-		
85	OHX	1	4034	-	0,6,6	-	-	-		
85	OHX	6	2052	-	0,6,6	-	-	-		
85	OHX	1	3873	-	0,6,6	-	-	-		
85	OHX	5	3918	-	0,6,6	-	-	-		
85	OHX	5	3945	-	0,6,6	-	-	-		
85	OHX	1	3918	-	0,6,6	-	-	-		
85	OHX	1	3735	-	0,6,6	-	-	-		
85	OHX	2	1996	-	0,6,6	-	-	-		
85	OHX	6	2149	-	0,6,6	-	-	-		
85	OHX	5	3828	-	0,6,6	-	-	-		
85	OHX	5	3983	-	0,6,6	-	-	-		
85	OHX	5	3742	-	0,6,6	-	-	-		
85	OHX	5	4035	-	0,6,6	-	-	-		
85	OHX	1	3863	-	0,6,6	-	-	-		
85	OHX	4	218	-	0,6,6	-	-	-		
85	OHX	5	3935	-	0,6,6	-	-	-		
85	OHX	2	2027	-	0,6,6	-	-	-		
85	OHX	1	3737	-	0,6,6	-	-	-		
85	OHX	5	3743	-	0,6,6	-	-	-		
85	OHX	1	3975	-	0,6,6	-	-	-		
85	OHX	1	3736	-	0,6,6	-	-	-		
85	OHX	1	3934	-	0,6,6	-	-	-		
85	OHX	5	4067	-	0,6,6	-	-	-		
85	OHX	6	2015	-	0,6,6	-	-	-		
85	OHX	6	2155	-	0,6,6	-	-	-		
85	OHX	6	2076	-	0,6,6	-	-	-		
85	OHX	5	4029	-	0,6,6	-	-	-		
85	OHX	6	2059	-	0,6,6	-	-	-		
85	OHX	6	2100	-	0,6,6	-	-	-		
85	OHX	5	3825	-	0,6,6	-	-	-		
85	OHX	5	3946	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	5	3868	-	0,6,6	-	-	-		
85	OHX	1	3915	-	0,6,6	-	-	-		
85	OHX	5	3883	-	0,6,6	-	-	-		
85	OHX	1	3838	-	0,6,6	-	-	-		
85	OHX	2	2096	-	0,6,6	-	-	-		
85	OHX	2	1998	-	0,6,6	-	-	-		
85	OHX	6	2140	-	0,6,6	-	-	-		
85	OHX	5	3839	-	0,6,6	-	-	-		
85	OHX	4	226	-	0,6,6	-	-	-		
85	OHX	7	219	-	0,6,6	-	-	-		
85	OHX	1	3731	-	0,6,6	-	-	-		
85	OHX	14	402	-	0,6,6	-	-	-		
85	OHX	1	3763	-	0,6,6	-	-	-		
85	OHX	5	3895	-	0,6,6	-	-	-		
85	OHX	5	3981	-	0,6,6	-	-	-		
85	OHX	1	3800	-	0,6,6	-	-	-		
85	OHX	2	2023	-	0,6,6	-	-	-		
85	OHX	3	215	-	0,6,6	-	-	-		
85	OHX	2	2101	-	0,6,6	-	-	-		
85	OHX	1	4019	-	0,6,6	-	-	-		
85	OHX	1	3880	-	0,6,6	-	-	-		
85	OHX	1	3949	-	0,6,6	-	-	-		
85	OHX	6	2034	-	0,6,6	-	-	-		
85	OHX	5	3892	-	0,6,6	-	-	-		
85	OHX	5	3866	-	0,6,6	-	-	-		
85	OHX	4	215	-	0,6,6	-	-	-		
85	OHX	1	3943	-	0,6,6	-	-	-		
85	OHX	7	216	-	0,6,6	-	-	-		
85	OHX	2	2091	-	0,6,6	-	-	-		
85	OHX	1	4010	-	0,6,6	-	-	-		
85	OHX	2	2033	-	0,6,6	-	-	-		
85	OHX	2	1992	-	0,6,6	-	-	-		
85	OHX	6	2110	-	0,6,6	-	-	-		
85	OHX	5	3955	-	0,6,6	-	-	-		
85	OHX	5	3896	-	0,6,6	-	-	-		
85	OHX	1	3827	-	0,6,6	-	-	-		
85	OHX	6	2102	-	0,6,6	-	-	-		
85	OHX	4	216	-	0,6,6	-	-	-		
85	OHX	5	3855	-	0,6,6	-	-	-		
85	OHX	6	2027	-	0,6,6	-	-	-		
85	OHX	6	2154	-	0,6,6	-	-	-		
85	OHX	6	2091	-	0,6,6	-	-	-		
85	OHX	1	3746	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	1	3759	-	0,6,6	-	-	-		
85	OHX	2	1983	-	0,6,6	-	-	-		
85	OHX	5	3878	-	0,6,6	-	-	-		
85	OHX	5	4057	-	0,6,6	-	-	-		
85	OHX	5	3970	-	0,6,6	-	-	-		
85	OHX	1	3829	-	0,6,6	-	-	-		
85	OHX	5	3822	-	0,6,6	-	-	-		
85	OHX	6	2129	-	0,6,6	-	-	-		
85	OHX	1	3999	-	0,6,6	-	-	-		
85	OHX	s8	302	-	0,6,6	-	-	-		
85	OHX	1	3980	-	0,6,6	-	-	-		
85	OHX	5	3995	-	0,6,6	-	-	-		
85	OHX	5	4023	-	0,6,6	-	-	-		
85	OHX	5	3750	-	0,6,6	-	-	-		
85	OHX	s4	301	-	0,6,6	-	-	-		
85	OHX	5	3779	-	0,6,6	-	-	-		
85	OHX	3	212	-	0,6,6	-	-	-		
85	OHX	2	1985	-	0,6,6	-	-	-		
85	OHX	2	2017	-	0,6,6	-	-	-		
85	OHX	2	2095	-	0,6,6	-	-	-		
85	OHX	2	2098	-	0,6,6	-	-	-		
85	OHX	5	3914	-	0,6,6	-	-	-		
85	OHX	2	2054	-	0,6,6	-	-	-		
85	OHX	N8	203	-	0,6,6	-	-	-		
85	OHX	5	4009	-	0,6,6	-	-	-		
85	OHX	M0	302	-	0,6,6	-	-	-		
85	OHX	7	215	-	0,6,6	-	-	-		
85	OHX	6	2128	-	0,6,6	-	-	-		
85	OHX	1	3751	-	0,6,6	-	-	-		
85	OHX	1	3747	-	0,6,6	-	-	-		
85	OHX	c3	201	-	0,6,6	-	-	-		
85	OHX	5	3858	-	0,6,6	-	-	-		
85	OHX	5	3964	-	0,6,6	-	-	-		
85	OHX	8	222	-	0,6,6	-	-	-		
85	OHX	6	2040	-	0,6,6	-	-	-		
85	OHX	5	3939	-	0,6,6	-	-	-		
85	OHX	6	2055	-	0,6,6	-	-	-		
85	OHX	1	4025	-	0,6,6	-	-	-		
85	OHX	1	3798	-	0,6,6	-	-	-		
85	OHX	1	3957	-	0,6,6	-	-	-		
85	OHX	5	3960	-	0,6,6	-	-	-		
85	OHX	l3	408	-	0,6,6	-	-	-		
85	OHX	6	2057	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	2	2109	-	0,6,6	-	-	-		
85	OHX	1	3781	-	0,6,6	-	-	-		
85	OHX	5	3916	-	0,6,6	-	-	-		
85	OHX	6	2144	-	0,6,6	-	-	-		
85	OHX	4	229	-	0,6,6	-	-	-		
85	OHX	2	2102	-	0,6,6	-	-	-		
85	OHX	1	3979	-	0,6,6	-	-	-		
85	OHX	1	3809	-	0,6,6	-	-	-		
85	OHX	1	4014	-	0,6,6	-	-	-		
85	OHX	5	3832	-	0,6,6	-	-	-		
85	OHX	5	3840	-	0,6,6	-	-	-		
85	OHX	5	3993	-	0,6,6	-	-	-		
85	OHX	6	2077	-	0,6,6	-	-	-		
85	OHX	1	4021	-	0,6,6	-	-	-		
85	OHX	1	3825	-	0,6,6	-	-	-		
85	OHX	5	3787	-	0,6,6	-	-	-		
85	OHX	1	3754	-	0,6,6	-	-	-		
85	OHX	1	3879	-	0,6,6	-	-	-		
85	OHX	1	4011	-	0,6,6	-	-	-		
85	OHX	1	4038	-	0,6,6	-	-	-		
85	OHX	5	4040	-	0,6,6	-	-	-		
85	OHX	6	2047	-	0,6,6	-	-	-		
85	OHX	2	2026	-	0,6,6	-	-	-		
85	OHX	1	4018	-	0,6,6	-	-	-		
85	OHX	5	3854	-	0,6,6	-	-	-		
85	OHX	5	3901	-	0,6,6	-	-	-		
85	OHX	6	2153	-	0,6,6	-	-	-		
85	OHX	6	2017	-	0,6,6	-	-	-		
85	OHX	6	2132	-	0,6,6	-	-	-		
85	OHX	2	2038	-	0,6,6	-	-	-		
85	OHX	sR	401	-	0,6,6	-	-	-		
85	OHX	6	2104	-	0,6,6	-	-	-		
85	OHX	6	2141	-	0,6,6	-	-	-		
85	OHX	5	3829	-	0,6,6	-	-	-		
85	OHX	5	3999	-	0,6,6	-	-	-		
85	OHX	1	3778	-	0,6,6	-	-	-		
85	OHX	1	3929	-	0,6,6	-	-	-		
85	OHX	5	3992	-	0,6,6	-	-	-		
85	OHX	5	4062	-	0,6,6	-	-	-		
85	OHX	1	3796	-	0,6,6	-	-	-		
85	OHX	5	3976	-	0,6,6	-	-	-		
85	OHX	4	220	-	0,6,6	-	-	-		
85	OHX	6	2045	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	2150	-	0,6,6	-	-	-		
85	OHX	5	4049	-	0,6,6	-	-	-		
85	OHX	5	4034	-	0,6,6	-	-	-		
85	OHX	2	2112	-	0,6,6	-	-	-		
85	OHX	1	3807	-	0,6,6	-	-	-		
85	OHX	5	3813	-	0,6,6	-	-	-		
85	OHX	1	3804	-	0,6,6	-	-	-		
85	OHX	1	3866	-	0,6,6	-	-	-		
85	OHX	5	3971	-	0,6,6	-	-	-		
85	OHX	5	3871	-	0,6,6	-	-	-		
85	OHX	1	3732	-	0,6,6	-	-	-		
85	OHX	5	4013	-	0,6,6	-	-	-		
85	OHX	2	2081	-	0,6,6	-	-	-		
85	OHX	5	4047	-	0,6,6	-	-	-		
85	OHX	5	4055	-	0,6,6	-	-	-		
85	OHX	5	3881	-	0,6,6	-	-	-		
85	OHX	6	2090	-	0,6,6	-	-	-		
85	OHX	5	4014	-	0,6,6	-	-	-		
85	OHX	2	2066	-	0,6,6	-	-	-		
85	OHX	1	3867	-	0,6,6	-	-	-		
85	OHX	1	3902	-	0,6,6	-	-	-		
85	OHX	5	3941	-	0,6,6	-	-	-		
85	OHX	5	3775	-	0,6,6	-	-	-		
85	OHX	5	4065	-	0,6,6	-	-	-		
85	OHX	5	3917	-	0,6,6	-	-	-		
85	OHX	5	3762	-	0,6,6	-	-	-		
85	OHX	2	1989	-	0,6,6	-	-	-		
85	OHX	1	3983	-	0,6,6	-	-	-		
85	OHX	1	3966	-	0,6,6	-	-	-		
85	OHX	1	3984	-	0,6,6	-	-	-		
85	OHX	6	2121	-	0,6,6	-	-	-		
85	OHX	5	3790	-	0,6,6	-	-	-		
85	OHX	2	2002	-	0,6,6	-	-	-		
85	OHX	1	3884	-	0,6,6	-	-	-		
85	OHX	6	2031	-	0,6,6	-	-	-		
85	OHX	6	2136	-	0,6,6	-	-	-		
85	OHX	6	2156	-	0,6,6	-	-	-		
85	OHX	1	3743	-	0,6,6	-	-	-		
85	OHX	6	2012	-	0,6,6	-	-	-		
85	OHX	1	3762	-	0,6,6	-	-	-		
85	OHX	2	2063	-	0,6,6	-	-	-		
85	OHX	1	3945	-	0,6,6	-	-	-		
85	OHX	8	214	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	6	2051	-	0,6,6	-	-	-		
85	OHX	6	2130	-	0,6,6	-	-	-		
85	OHX	5	3920	-	0,6,6	-	-	-		
85	OHX	2	2011	-	0,6,6	-	-	-		
85	OHX	1	3883	-	0,6,6	-	-	-		
85	OHX	5	4038	-	0,6,6	-	-	-		
85	OHX	1	3914	-	0,6,6	-	-	-		
85	OHX	5	3759	-	0,6,6	-	-	-		
85	OHX	5	3863	-	0,6,6	-	-	-		
85	OHX	2	2030	-	0,6,6	-	-	-		
85	OHX	1	3780	-	0,6,6	-	-	-		
85	OHX	1	3981	-	0,6,6	-	-	-		
85	OHX	6	2022	-	0,6,6	-	-	-		
85	OHX	1	3882	-	0,6,6	-	-	-		
85	OHX	2	2082	-	0,6,6	-	-	-		
85	OHX	5	3823	-	0,6,6	-	-	-		
85	OHX	5	3973	-	0,6,6	-	-	-		
85	OHX	5	4032	-	0,6,6	-	-	-		
85	OHX	2	2035	-	0,6,6	-	-	-		
85	OHX	1	4003	-	0,6,6	-	-	-		
85	OHX	1	3988	-	0,6,6	-	-	-		
85	OHX	2	2006	-	0,6,6	-	-	-		
85	OHX	1	3845	-	0,6,6	-	-	-		
85	OHX	1	3967	-	0,6,6	-	-	-		
85	OHX	5	3772	-	0,6,6	-	-	-		
85	OHX	1	3925	-	0,6,6	-	-	-		
85	OHX	1	3968	-	0,6,6	-	-	-		
85	OHX	1	3733	-	0,6,6	-	-	-		
85	OHX	n9	102	-	0,6,6	-	-	-		
85	OHX	1	3855	-	0,6,6	-	-	-		
85	OHX	6	2123	-	0,6,6	-	-	-		
85	OHX	2	2115	-	0,6,6	-	-	-		
85	OHX	1	3969	-	0,6,6	-	-	-		
85	OHX	5	3749	-	0,6,6	-	-	-		
85	OHX	1	3961	-	0,6,6	-	-	-		
85	OHX	1	3795	-	0,6,6	-	-	-		
85	OHX	1	3864	-	0,6,6	-	-	-		
85	OHX	1	3926	-	0,6,6	-	-	-		
85	OHX	6	2119	-	0,6,6	-	-	-		
85	OHX	6	2023	-	0,6,6	-	-	-		
85	OHX	1	3758	-	0,6,6	-	-	-		
85	OHX	5	4054	-	0,6,6	-	-	-		
85	OHX	5	3856	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
85	OHX	5	3870	-	0,6,6	-	-	-		
85	OHX	5	4056	-	0,6,6	-	-	-		
85	OHX	1	3906	-	0,6,6	-	-	-		
85	OHX	D9	103	-	0,6,6	-	-	-		
85	OHX	5	3783	-	0,6,6	-	-	-		
85	OHX	6	2111	-	0,6,6	-	-	-		
85	OHX	6	2014	-	0,6,6	-	-	-		
85	OHX	6	2042	-	0,6,6	-	-	-		
85	OHX	1	3761	-	0,6,6	-	-	-		
85	OHX	6	2054	-	0,6,6	-	-	-		
85	OHX	5	3894	-	0,6,6	-	-	-		
85	OHX	2	2064	-	0,6,6	-	-	-		
85	OHX	1	3893	-	0,6,6	-	-	-		
85	OHX	6	2127	-	0,6,6	-	-	-		
85	OHX	1	3911	-	0,6,6	-	-	-		
85	OHX	2	2022	-	0,6,6	-	-	-		
85	OHX	1	3753	-	0,6,6	-	-	-		
85	OHX	1	3964	-	0,6,6	-	-	-		
85	OHX	6	2037	-	0,6,6	-	-	-		
85	OHX	6	2096	-	0,6,6	-	-	-		
85	OHX	5	3907	-	0,6,6	-	-	-		
85	OHX	5	4028	-	0,6,6	-	-	-		
85	OHX	5	3817	-	0,6,6	-	-	-		
85	OHX	5	3933	-	0,6,6	-	-	-		
85	OHX	1	3811	-	0,6,6	-	-	-		
85	OHX	6	2118	-	0,6,6	-	-	-		
85	OHX	1	3844	-	0,6,6	-	-	-		
85	OHX	2	2117	-	0,6,6	-	-	-		
85	OHX	1	3960	-	0,6,6	-	-	-		
85	OHX	6	2018	-	0,6,6	-	-	-		
85	OHX	5	4002	-	0,6,6	-	-	-		
85	OHX	5	4007	36	0,6,6	-	-	-		
85	OHX	2	2092	-	0,6,6	-	-	-		
85	OHX	6	2056	-	0,6,6	-	-	-		
85	OHX	5	3931	-	0,6,6	-	-	-		
85	OHX	8	217	-	0,6,6	-	-	-		
85	OHX	2	2000	-	0,6,6	-	-	-		
85	OHX	5	4043	-	0,6,6	-	-	-		
85	OHX	1	3993	-	0,6,6	-	-	-		
85	OHX	6	2064	-	0,6,6	-	-	-		
85	OHX	5	3987	-	0,6,6	-	-	-		
85	OHX	m0	301	-	0,6,6	-	-	-		
85	OHX	1	3875	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
85	OHX	6	2115	-	0,6,6	-	-	-		
85	OHX	5	3985	-	0,6,6	-	-	-		
85	OHX	2	2005	-	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	ANM	1	3401	-	3/3/4/5	3/10/23/23	0/2/2/2

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
87	1	3401	ANM	C3-C2	-7.09	1.40	1.53
87	1	3401	ANM	C4-C3	-6.89	1.43	1.53
87	1	3401	ANM	O2-C2	-4.75	1.37	1.44
87	1	3401	ANM	C16-N1	-4.74	1.38	1.47
87	1	3401	ANM	C15-C16	-3.28	1.47	1.53
87	1	3401	ANM	O1-C9	2.94	1.43	1.37
87	1	3401	ANM	C2-C16	-2.92	1.47	1.53
87	1	3401	ANM	O4-C3	-2.85	1.37	1.43
87	1	3401	ANM	O2-C5	2.68	1.41	1.35

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	1	3401	ANM	C15-C16-N1	-5.48	104.18	111.21
87	1	3401	ANM	O2-C5-O3	-5.48	112.42	122.99
87	1	3401	ANM	C2-O2-C5	-5.32	109.46	117.72
87	1	3401	ANM	O2-C2-C16	-4.38	102.24	110.50
87	1	3401	ANM	C4-C3-C2	-4.21	97.94	103.32
87	1	3401	ANM	O4-C3-C4	-4.12	101.29	110.90
87	1	3401	ANM	O2-C5-C6	3.43	117.21	111.09
87	1	3401	ANM	O4-C3-C2	-2.88	103.16	111.58
87	1	3401	ANM	O3-C5-C6	-2.62	115.49	124.77
87	1	3401	ANM	C3-C2-C16	-2.33	100.92	104.29
87	1	3401	ANM	C14-O1-C9	-2.30	112.56	117.50

All (3) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
87	1	3401	ANM	C16
87	1	3401	ANM	C2
87	1	3401	ANM	C3

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
87	1	3401	ANM	C6-C5-O2-C2
87	1	3401	ANM	C1-C9-O1-C14
87	1	3401	ANM	C10-C9-O1-C14

There are no ring outliers.

514 monomers are involved in 790 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3854	OHX	3	0
85	1	3901	OHX	2	0
85	5	3782	OHX	1	0
85	1	3955	OHX	1	0
85	1	3930	OHX	1	0
85	2	2065	OHX	2	0
85	5	3979	OHX	2	0
85	6	2071	OHX	2	0
85	7	214	OHX	1	0
85	1	3820	OHX	1	0
85	5	3801	OHX	2	0
85	M9	201	OHX	1	0
85	6	2112	OHX	3	0
85	3	217	OHX	2	0
85	1	3826	OHX	1	0
85	5	3849	OHX	2	0
85	5	3798	OHX	3	0
85	5	3835	OHX	3	0
85	5	3809	OHX	1	0
85	2	2048	OHX	4	0
85	o7	502	OHX	1	0
85	7	213	OHX	1	0
85	1	3917	OHX	1	0
85	6	2087	OHX	3	0
85	6	2120	OHX	2	0
85	l5	302	OHX	2	0
85	1	4009	OHX	8	0
85	1	3837	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3846	OHX	1	0
85	6	2098	OHX	1	0
85	1	3940	OHX	6	0
85	6	2124	OHX	2	0
85	4	228	OHX	2	0
85	1	3862	OHX	3	0
85	1	3787	OHX	1	0
85	1	3952	OHX	1	0
85	6	2021	OHX	1	0
85	5	3922	OHX	1	0
85	5	3966	OHX	1	0
85	4	222	OHX	1	0
85	S6	301	OHX	1	0
85	6	2138	OHX	2	0
85	5	3773	OHX	1	0
85	2	2119	OHX	1	0
85	5	3756	OHX	1	0
85	5	3826	OHX	1	0
85	5	3909	OHX	1	0
85	5	4022	OHX	1	0
85	5	3919	OHX	1	0
85	1	3779	OHX	1	0
85	4	219	OHX	1	0
85	5	3834	OHX	1	0
85	5	3784	OHX	1	0
85	1	3817	OHX	1	0
85	1	3898	OHX	1	0
85	1	3874	OHX	2	0
85	1	4004	OHX	7	0
85	5	3768	OHX	1	0
85	1	3791	OHX	2	0
85	5	4044	OHX	1	0
85	s9	201	OHX	2	0
85	2	2021	OHX	2	0
85	1	3812	OHX	1	0
85	1	4007	OHX	3	0
85	5	3816	OHX	2	0
85	1	4002	OHX	1	0
85	1	3978	OHX	1	0
85	5	4068	OHX	2	0
85	6	2105	OHX	1	0
85	5	3989	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	6	2083	OHX	1	0
85	6	2092	OHX	1	0
85	1	3742	OHX	1	0
85	5	4031	OHX	1	0
85	1	3823	OHX	2	0
85	S8	301	OHX	1	0
85	c5	201	OHX	2	0
85	2	2099	OHX	1	0
85	5	3915	OHX	1	0
85	1	3818	OHX	6	0
85	5	3761	OHX	1	0
85	6	2046	OHX	1	0
85	6	2072	OHX	1	0
85	5	3745	OHX	1	0
85	3	210	OHX	1	0
85	5	3947	OHX	2	0
85	d4	201	OHX	1	0
85	5	3860	OHX	1	0
85	1	3788	OHX	1	0
85	l4	401	OHX	3	0
85	2	2105	OHX	1	0
85	1	3739	OHX	2	0
85	5	4033	OHX	1	0
85	6	2036	OHX	1	0
85	6	2082	OHX	1	0
85	5	3752	OHX	2	0
85	5	4059	OHX	1	0
85	8	218	OHX	2	0
85	6	2075	OHX	1	0
85	2	2045	OHX	2	0
85	1	3793	OHX	1	0
85	1	3824	OHX	2	0
85	5	3803	OHX	1	0
85	5	3886	OHX	1	0
85	m1	202	OHX	1	0
85	2	2068	OHX	7	0
85	5	3875	OHX	1	0
85	1	3831	OHX	1	0
85	5	3974	OHX	1	0
85	5	4039	OHX	3	0
85	2	2100	OHX	1	0
85	6	2137	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3977	OHX	1	0
85	2	1993	OHX	1	0
85	6	2024	OHX	1	0
85	L3	402	OHX	1	0
85	1	4029	OHX	1	0
85	2	2031	OHX	1	0
85	2	2025	OHX	1	0
85	1	3954	OHX	1	0
85	8	221	OHX	2	0
85	5	4036	OHX	7	0
85	4	227	OHX	1	0
85	2	2036	OHX	1	0
85	6	2043	OHX	1	0
85	5	3877	OHX	6	0
85	5	3921	OHX	1	0
85	2	2075	OHX	1	0
85	6	2061	OHX	1	0
85	5	3800	OHX	1	0
85	2	1999	OHX	2	0
85	1	3842	OHX	1	0
85	5	3944	OHX	2	0
85	2	2029	OHX	2	0
85	1	3764	OHX	1	0
85	5	3852	OHX	1	0
85	5	3774	OHX	1	0
85	m7	204	OHX	1	0
85	6	2053	OHX	1	0
85	5	4069	OHX	1	0
85	1	3935	OHX	1	0
85	1	3895	OHX	2	0
85	8	211	OHX	1	0
85	1	3766	OHX	1	0
85	1	3814	OHX	1	0
85	1	3833	OHX	1	0
85	6	2033	OHX	1	0
85	6	2106	OHX	2	0
85	1	3843	OHX	2	0
85	C8	201	OHX	0	1
85	1	4017	OHX	5	0
85	5	4042	OHX	3	0
85	2	2010	OHX	1	0
85	1	3849	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3934	OHX	5	0
85	2	1994	OHX	1	0
85	1	4031	OHX	1	0
85	5	3763	OHX	1	0
85	5	4060	OHX	1	0
85	5	3889	OHX	1	0
85	5	3950	OHX	2	0
85	2	2043	OHX	2	0
85	2	2049	OHX	1	0
85	2	2097	OHX	1	0
85	6	2073	OHX	1	0
85	6	2097	OHX	1	0
85	2	2079	OHX	5	0
85	1	3729	OHX	1	0
85	1	3740	OHX	1	0
85	1	3974	OHX	1	0
85	2	2037	OHX	2	0
85	1	3900	OHX	1	0
85	8	212	OHX	2	0
85	1	3835	OHX	2	0
85	2	2078	OHX	1	0
85	2	1995	OHX	1	0
85	1	3859	OHX	2	0
85	O3	202	OHX	1	0
85	1	3860	OHX	2	0
85	1	3923	OHX	1	0
85	2	2050	OHX	1	0
85	5	4016	OHX	1	0
85	1	3910	OHX	1	0
85	8	213	OHX	1	0
85	O7	104	OHX	1	0
85	8	224	OHX	2	0
85	o3	202	OHX	1	0
85	1	4036	OHX	1	0
85	6	2025	OHX	2	0
85	2	2108	OHX	1	0
85	1	3858	OHX	1	0
85	5	3957	OHX	1	0
85	2	2009	OHX	1	0
85	6	2099	OHX	2	0
85	L3	403	OHX	1	0
85	5	3769	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	3963	OHX	1	0
85	5	3751	OHX	2	0
85	5	4020	OHX	1	0
85	1	4026	OHX	1	0
85	1	3976	OHX	1	0
85	5	3861	OHX	1	0
85	5	3923	OHX	5	0
85	5	3998	OHX	2	0
85	6	2147	OHX	2	0
85	1	3836	OHX	7	0
85	C3	201	OHX	1	0
85	5	3953	OHX	1	0
85	1	3832	OHX	7	0
85	5	3872	OHX	1	0
85	5	3926	OHX	1	0
85	L4	401	OHX	2	0
85	6	2088	OHX	3	0
85	6	2019	OHX	2	0
85	5	3766	OHX	2	0
85	6	2062	OHX	1	0
85	5	3912	OHX	1	0
85	5	4051	OHX	1	0
85	1	4012	OHX	3	0
85	1	3956	OHX	2	0
85	5	3932	OHX	1	0
85	1	3948	OHX	1	0
85	M7	205	OHX	1	0
85	2	2069	OHX	1	0
85	1	3767	OHX	1	0
85	8	219	OHX	2	0
85	6	2030	OHX	1	0
85	1	3852	OHX	1	0
85	1	3774	OHX	1	0
85	2	2074	OHX	2	0
85	6	2035	OHX	3	0
85	2	2013	OHX	2	0
85	3	219	OHX	1	0
85	1	3851	OHX	2	0
85	5	3882	OHX	1	0
85	5	3830	OHX	1	0
85	5	4030	OHX	2	0
85	2	2086	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	6	2152	OHX	5	0
85	1	3950	OHX	2	0
85	1	3927	OHX	5	0
85	1	4008	OHX	6	0
85	6	2157	OHX	1	0
85	5	4052	OHX	1	0
85	2	2044	OHX	3	0
85	q2	502	OHX	1	0
85	2	2114	OHX	1	0
85	2	2090	OHX	1	0
85	1	3894	OHX	1	0
85	2	1986	OHX	1	0
85	n3	203	OHX	1	0
85	2	2110	OHX	1	0
85	6	2146	OHX	1	0
85	5	3789	OHX	2	0
85	2	2067	OHX	1	0
85	2	2111	OHX	2	0
85	6	2117	OHX	1	0
85	1	3944	OHX	6	0
85	5	3815	OHX	1	0
85	5	4027	OHX	7	0
85	1	3752	OHX	1	0
85	1	3801	OHX	1	0
85	1	3987	OHX	2	0
85	5	4037	OHX	7	0
85	1	3878	OHX	1	0
85	6	2029	OHX	1	0
85	5	3844	OHX	7	0
85	1	3794	OHX	1	0
85	1	3869	OHX	1	0
85	2	2059	OHX	1	0
85	6	2066	OHX	1	0
85	6	2050	OHX	1	0
85	2	2103	OHX	1	0
85	2	2084	OHX	1	0
85	5	3986	OHX	2	0
85	5	3850	OHX	1	0
85	l3	407	OHX	1	0
85	6	2109	OHX	7	0
85	5	3748	OHX	1	0
85	C5	201	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	5	4015	OHX	1	0
85	5	4066	OHX	2	0
85	4	231	OHX	1	0
85	2	2070	OHX	3	0
85	2	2007	OHX	1	0
85	1	3924	OHX	1	0
85	5	3846	OHX	4	0
85	2	2085	OHX	1	0
85	5	3797	OHX	1	0
85	5	3853	OHX	1	0
85	1	3947	OHX	1	0
85	5	4058	OHX	1	0
85	6	2108	OHX	1	0
85	1	3786	OHX	1	0
85	6	2065	OHX	1	0
85	1	3782	OHX	1	0
85	2	2116	OHX	1	0
85	1	3891	OHX	3	0
85	2	2018	OHX	1	0
85	6	2009	OHX	1	0
85	6	2013	OHX	1	0
85	5	3792	OHX	1	0
85	5	3807	OHX	3	0
85	5	3864	OHX	1	0
85	1	3912	OHX	4	0
85	8	216	OHX	1	0
85	2	1991	OHX	2	0
85	1	3726	OHX	1	0
85	5	3902	OHX	1	0
85	2	2004	OHX	1	0
85	6	2060	OHX	2	0
85	1	3997	OHX	3	0
85	1	3744	OHX	2	0
85	5	3848	OHX	1	0
85	2	2052	OHX	1	0
85	1	3888	OHX	1	0
85	5	3891	OHX	1	0
85	5	3754	OHX	2	0
85	1	3808	OHX	1	0
85	1	3730	OHX	1	0
85	6	2085	OHX	2	0
85	5	3788	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3903	OHX	1	0
85	1	3932	OHX	2	0
85	1	3970	OHX	1	0
85	5	3996	OHX	1	0
85	5	3898	OHX	6	0
85	8	215	OHX	1	0
85	1	3772	OHX	2	0
85	5	3911	OHX	1	0
85	5	4021	OHX	1	0
85	5	3776	OHX	1	0
85	2	2107	OHX	2	0
85	6	2116	OHX	6	0
85	2	2056	OHX	3	0
85	1	3841	OHX	2	0
85	5	4019	OHX	1	0
85	5	3780	OHX	1	0
85	5	3806	OHX	4	0
85	1	3916	OHX	5	0
85	5	3930	OHX	1	0
85	15	301	OHX	1	0
85	5	3827	OHX	2	0
85	1	3797	OHX	1	0
85	2	2113	OHX	1	0
85	1	4015	OHX	2	0
85	2	2046	OHX	1	0
85	5	3857	OHX	1	0
85	5	3908	OHX	3	0
85	5	3937	OHX	1	0
85	6	2016	OHX	1	0
85	5	3836	OHX	1	0
85	6	2126	OHX	1	0
85	1	3951	OHX	1	0
85	5	4025	OHX	6	0
85	1	3971	OHX	2	0
85	1	3899	OHX	3	0
85	5	4018	OHX	1	0
85	5	4011	OHX	1	0
85	2	2051	OHX	2	0
85	1	3904	OHX	7	0
85	O9	101	OHX	2	0
85	5	3980	OHX	1	0
85	2	2032	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3907	OHX	3	0
85	5	3968	OHX	1	0
85	5	3867	OHX	1	0
85	2	2024	OHX	2	0
85	2	2042	OHX	3	0
87	1	3401	ANM	16	0
85	2	2001	OHX	1	0
85	1	3918	OHX	1	0
85	1	3735	OHX	1	0
85	2	1996	OHX	1	0
85	5	3983	OHX	2	0
85	5	3742	OHX	1	0
85	5	4035	OHX	10	0
85	1	3863	OHX	1	0
85	4	218	OHX	1	0
85	5	3935	OHX	1	0
85	1	3737	OHX	1	0
85	1	3975	OHX	5	0
85	1	3736	OHX	1	0
85	1	3934	OHX	1	0
85	6	2076	OHX	1	0
85	5	4029	OHX	1	0
85	6	2100	OHX	1	0
85	5	3825	OHX	1	0
85	5	3868	OHX	2	0
85	1	3915	OHX	3	0
85	1	3838	OHX	1	0
85	2	1998	OHX	1	0
85	6	2140	OHX	1	0
85	5	3839	OHX	1	0
85	7	219	OHX	4	0
85	1	3731	OHX	1	0
85	14	402	OHX	1	0
85	5	3895	OHX	1	0
85	1	3800	OHX	1	0
85	2	2023	OHX	1	0
85	3	215	OHX	1	0
85	2	2101	OHX	2	0
85	1	4019	OHX	3	0
85	1	3880	OHX	4	0
85	5	3892	OHX	1	0
85	4	215	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	2	2033	OHX	1	0
85	2	1992	OHX	2	0
85	6	2110	OHX	1	0
85	4	216	OHX	1	0
85	5	3855	OHX	1	0
85	6	2154	OHX	1	0
85	1	3759	OHX	1	0
85	2	1983	OHX	1	0
85	5	4057	OHX	1	0
85	1	3829	OHX	1	0
85	5	3822	OHX	8	0
85	6	2129	OHX	1	0
85	1	3980	OHX	1	0
85	5	3995	OHX	2	0
85	5	3750	OHX	1	0
85	s4	301	OHX	1	0
85	2	2017	OHX	1	0
85	2	2095	OHX	3	0
85	2	2054	OHX	6	0
85	7	215	OHX	1	0
85	1	3751	OHX	3	0
85	c3	201	OHX	2	0
85	5	3858	OHX	1	0
85	5	3964	OHX	2	0
85	5	3939	OHX	1	0
85	1	4025	OHX	1	0
85	2	2102	OHX	1	0
85	1	3979	OHX	1	0
85	5	3840	OHX	1	0
85	6	2077	OHX	1	0
85	1	4011	OHX	1	0
85	1	4038	OHX	1	0
85	6	2047	OHX	1	0
85	2	2026	OHX	1	0
85	1	4018	OHX	2	0
85	5	3854	OHX	6	0
85	6	2153	OHX	1	0
85	6	2017	OHX	1	0
85	6	2141	OHX	1	0
85	5	3829	OHX	1	0
85	5	3999	OHX	2	0
85	1	3778	OHX	1	0

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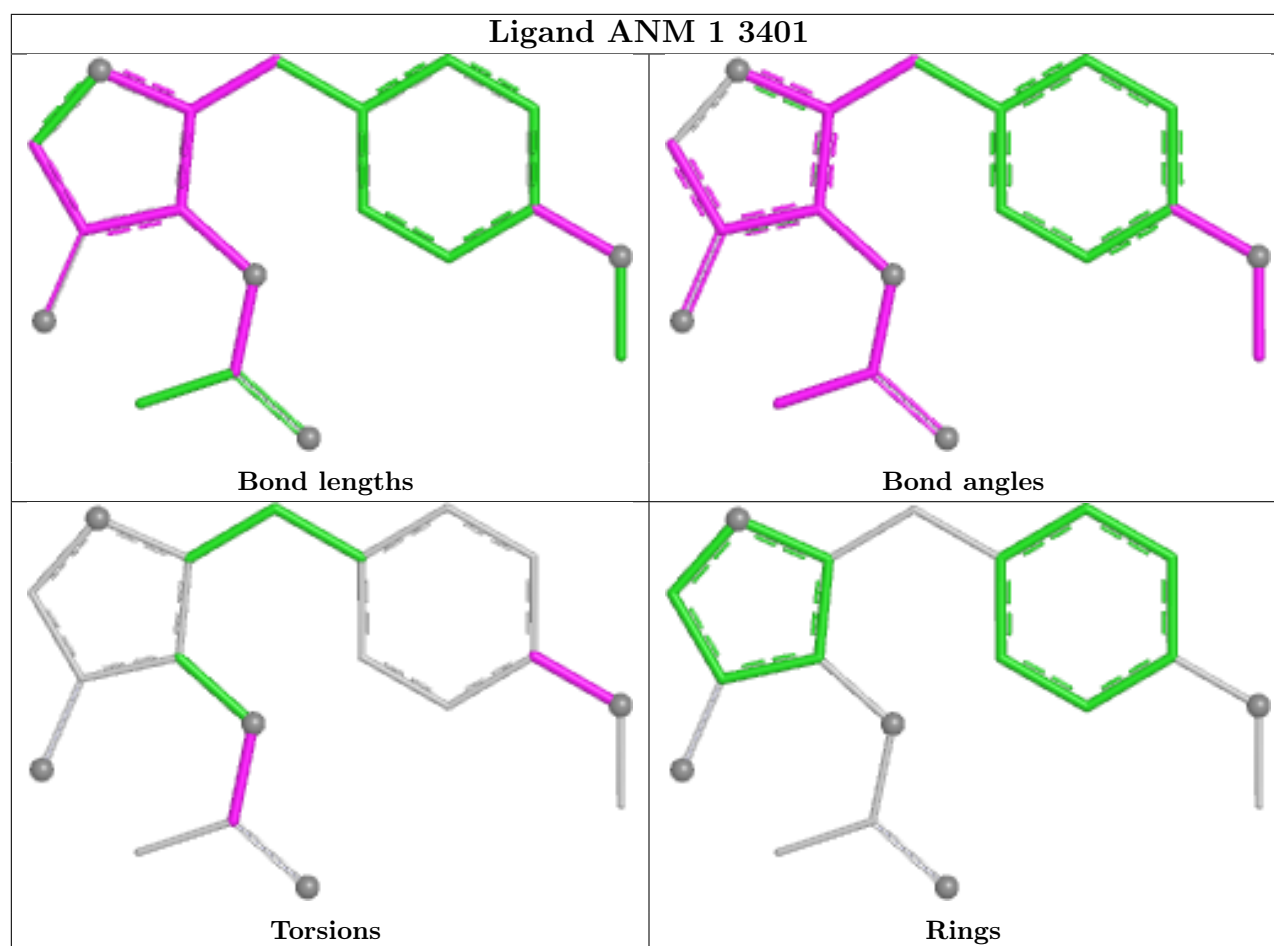
Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	1	3929	OHX	1	0
85	5	3992	OHX	1	0
85	5	4062	OHX	3	0
85	5	3976	OHX	1	0
85	4	220	OHX	1	0
85	6	2150	OHX	1	0
85	5	4049	OHX	4	0
85	5	4034	OHX	1	0
85	2	2112	OHX	3	0
85	5	4013	OHX	1	0
85	6	2090	OHX	1	0
85	1	3867	OHX	1	0
85	5	3941	OHX	1	0
85	5	3917	OHX	2	0
85	2	1989	OHX	1	0
85	1	3983	OHX	1	0
85	1	3966	OHX	1	0
85	6	2121	OHX	4	0
85	2	2002	OHX	1	0
85	6	2136	OHX	1	0
85	1	3743	OHX	1	0
85	6	2012	OHX	1	0
85	1	3945	OHX	1	0
85	8	214	OHX	1	0
85	5	4038	OHX	5	0
85	5	3759	OHX	1	0
85	2	2030	OHX	2	0
85	5	4032	OHX	2	0
85	2	2035	OHX	1	0
85	1	4003	OHX	1	0
85	2	2006	OHX	1	0
85	1	3967	OHX	2	0
85	1	3733	OHX	1	0
85	n9	102	OHX	1	0
85	1	3969	OHX	2	0
85	5	3749	OHX	1	0
85	1	3864	OHX	1	0
85	1	3926	OHX	1	0
85	6	2023	OHX	6	0
85	5	4054	OHX	5	0
85	5	3856	OHX	2	0
85	5	4056	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
85	D9	103	OHX	3	0
85	6	2111	OHX	1	0
85	6	2014	OHX	1	0
85	1	3761	OHX	2	0
85	6	2054	OHX	1	0
85	5	3894	OHX	1	0
85	2	2064	OHX	1	0
85	1	3893	OHX	1	0
85	1	3753	OHX	1	0
85	1	3964	OHX	1	0
85	6	2037	OHX	2	0
85	5	4028	OHX	1	0
85	5	3933	OHX	2	0
85	6	2118	OHX	1	0
85	6	2018	OHX	1	0
85	5	4002	OHX	1	0
85	5	4007	OHX	9	0
85	2	2092	OHX	1	0
85	6	2056	OHX	1	0
85	2	2000	OHX	1	0
85	1	3993	OHX	2	0
85	6	2064	OHX	2	0
85	m0	301	OHX	2	0
85	2	2005	OHX	2	0

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



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
80	m2	2
35	sM	1
35	SM	1
12	c0	1
1	2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	sM	139:UNK	C	155:UNK	N	37.86

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	SM	141:ALA	C	151:UNK	N	26.40
1	c0	84:GLU	C	87:UNK	N	8.00
1	2	1716:C	O3'	1717:G	P	3.94
1	m2	23:UNK	C	28:UNK	N	3.86
1	m2	52:UNK	C	54:UNK	N	3.08

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	2	1781/1800 (98%)	1.07	199 (11%) 10 5	37, 86, 144, 179	1 (0%)
1	6	1795/1800 (99%)	0.86	155 (8%) 16 9	31, 76, 145, 181	1 (0%)
2	S0	206/251 (82%)	1.23	28 (13%) 7 4	87, 96, 101, 106	0
2	s0	206/251 (82%)	2.04	101 (49%) 0 0	78, 120, 181, 264	0
3	S1	214/254 (84%)	1.66	66 (30%) 1 1	96, 117, 134, 137	0
3	s1	216/254 (85%)	0.86	11 (5%) 33 18	71, 82, 95, 105	0
4	S2	217/253 (85%)	0.94	20 (9%) 14 8	73, 81, 90, 98	0
4	s2	217/253 (85%)	0.84	20 (9%) 14 8	58, 68, 84, 89	0
5	S3	223/239 (93%)	0.91	13 (5%) 29 16	76, 86, 104, 107	0
5	s3	223/239 (93%)	0.91	23 (10%) 12 6	77, 98, 120, 126	0
6	S4	260/260 (100%)	0.93	18 (6%) 23 12	64, 84, 91, 104	0
6	s4	260/260 (100%)	0.87	19 (7%) 21 11	49, 74, 82, 99	0
7	S5	206/224 (91%)	1.22	29 (14%) 6 3	94, 104, 110, 113	0
7	s5	206/224 (91%)	1.04	18 (8%) 16 9	74, 93, 100, 104	0
8	S6	226/236 (95%)	1.29	39 (17%) 4 2	67, 89, 106, 109	0
8	s6	218/236 (92%)	0.94	17 (7%) 19 10	51, 82, 94, 102	0
9	S7	184/189 (97%)	1.16	27 (14%) 6 3	83, 103, 119, 122	0
9	s7	186/189 (98%)	1.07	23 (12%) 8 5	71, 96, 123, 189	0
10	S8	188/200 (94%)	1.21	24 (12%) 7 4	61, 75, 106, 113	0
10	s8	188/200 (94%)	1.02	16 (8%) 16 9	46, 69, 110, 123	0
11	S9	185/196 (94%)	1.22	26 (14%) 6 3	77, 89, 111, 126	0
11	s9	185/196 (94%)	1.19	26 (14%) 6 3	62, 79, 104, 119	0
12	C0	84/96 (87%)	1.22	16 (19%) 3 1	83, 96, 104, 107	0
12	c0	84/96 (87%)	1.47	27 (32%) 1 0	97, 122, 131, 135	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	C1	146/155 (94%)	0.92	10 (6%) 23 12	64, 72, 90, 101	0
13	c1	146/155 (94%)	1.03	22 (15%) 5 3	51, 66, 97, 152	0
14	C2	124/142 (87%)	1.33	22 (17%) 4 2	118, 124, 129, 132	0
14	c2	124/142 (87%)	2.20	68 (54%) 0 0	170, 185, 193, 202	0
15	C3	150/150 (100%)	1.03	18 (12%) 9 5	71, 85, 93, 97	0
15	c3	150/150 (100%)	0.71	9 (6%) 27 15	56, 72, 87, 92	0
16	C4	127/136 (93%)	1.79	43 (33%) 1 0	74, 116, 124, 126	0
16	c4	128/136 (94%)	0.95	11 (8%) 16 9	54, 81, 85, 88	0
17	C5	124/141 (87%)	1.11	18 (14%) 6 3	77, 88, 107, 114	0
17	c5	135/141 (95%)	1.25	21 (15%) 5 2	61, 91, 108, 115	0
18	C6	141/142 (99%)	1.44	39 (27%) 1 1	81, 99, 102, 103	0
18	c6	142/142 (100%)	1.54	34 (23%) 2 1	69, 89, 101, 104	0
19	C7	120/136 (88%)	1.42	27 (22%) 2 1	89, 99, 106, 107	0
19	c7	117/136 (86%)	2.38	68 (58%) 0 0	79, 95, 321, 380	0
20	C8	145/145 (100%)	1.19	24 (16%) 4 2	76, 94, 109, 114	0
20	c8	145/145 (100%)	1.04	15 (10%) 12 6	69, 87, 98, 103	0
21	C9	143/143 (100%)	1.55	33 (23%) 2 1	86, 97, 105, 110	0
21	c9	143/143 (100%)	1.03	10 (6%) 22 12	71, 83, 93, 98	0
22	D0	107/120 (89%)	1.48	28 (26%) 1 1	76, 98, 107, 109	0
22	d0	110/120 (91%)	1.32	21 (19%) 3 1	73, 103, 118, 121	0
23	D1	87/87 (100%)	0.91	8 (9%) 14 8	84, 87, 97, 100	0
23	d1	87/87 (100%)	0.99	9 (10%) 12 6	70, 86, 139, 157	0
24	D2	129/129 (100%)	1.01	11 (8%) 16 9	73, 81, 87, 95	0
24	d2	129/129 (100%)	0.84	9 (6%) 22 12	56, 67, 74, 81	0
25	D3	144/144 (100%)	0.92	16 (11%) 10 5	63, 66, 72, 75	0
25	d3	144/144 (100%)	0.43	4 (2%) 55 34	47, 52, 60, 65	0
26	D4	134/134 (100%)	1.09	21 (15%) 5 2	74, 90, 97, 100	0
26	d4	134/134 (100%)	1.01	16 (11%) 9 5	58, 78, 88, 101	0
27	D5	70/107 (65%)	1.35	14 (20%) 3 1	103, 109, 114, 114	0
27	d5	69/107 (64%)	1.23	12 (17%) 4 2	86, 97, 101, 102	0
28	D6	97/97 (100%)	1.30	20 (20%) 2 1	76, 85, 121, 121	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	d6	97/97 (100%)	0.80	7 (7%) 21 11	56, 66, 87, 91	0
29	D7	81/81 (100%)	1.23	11 (13%) 7 4	84, 95, 107, 108	0
29	d7	81/81 (100%)	1.10	7 (8%) 16 9	72, 86, 101, 103	0
30	D8	63/66 (95%)	1.48	14 (22%) 2 1	101, 108, 112, 115	0
30	d8	63/66 (95%)	1.03	5 (7%) 18 10	88, 96, 101, 106	0
31	D9	53/55 (96%)	1.54	13 (24%) 2 1	78, 82, 94, 95	0
31	d9	53/55 (96%)	1.79	19 (35%) 1 0	73, 85, 114, 122	0
32	E0	60/62 (96%)	1.07	8 (13%) 7 4	65, 90, 102, 104	0
32	e0	62/62 (100%)	0.90	5 (8%) 18 10	53, 78, 95, 99	0
33	E1	71/76 (93%)	1.53	14 (19%) 3 1	89, 115, 125, 126	0
33	e1	76/76 (100%)	2.37	44 (57%) 0 0	96, 155, 181, 183	0
34	SR	318/318 (100%)	1.25	54 (16%) 4 2	95, 103, 114, 120	0
34	sR	318/318 (100%)	1.35	57 (17%) 3 1	102, 116, 127, 175	0
35	SM	133/182 (73%)	1.04	18 (13%) 7 4	56, 80, 122, 131	0
35	sM	63/182 (34%)	1.04	9 (14%) 6 3	44, 87, 93, 95	0
36	1	3149/3396 (92%)	0.41	157 (4%) 34 18	31, 53, 104, 189	0
36	5	3150/3396 (92%)	0.36	155 (4%) 35 18	29, 51, 105, 149	0
37	3	121/121 (100%)	0.43	1 (0%) 82 65	43, 66, 77, 80	0
37	7	121/121 (100%)	0.24	1 (0%) 82 65	34, 52, 64, 69	0
38	4	158/158 (100%)	0.35	4 (2%) 58 37	35, 54, 84, 107	0
38	8	158/158 (100%)	0.53	5 (3%) 50 30	40, 61, 93, 104	0
39	L2	252/253 (99%)	0.51	7 (2%) 55 34	39, 52, 65, 70	0
39	l2	252/253 (99%)	0.68	18 (7%) 22 12	37, 55, 73, 146	0
40	L3	386/386 (100%)	0.46	6 (1%) 70 49	38, 53, 64, 73	0
40	l3	386/386 (100%)	0.21	3 (0%) 82 65	30, 43, 58, 82	0
41	L4	361/361 (100%)	0.11	2 (0%) 85 70	33, 44, 56, 62	0
41	l4	361/361 (100%)	0.49	13 (3%) 46 26	36, 51, 66, 72	0
42	L5	296/296 (100%)	0.67	15 (5%) 33 18	52, 69, 81, 90	0
42	l5	294/296 (99%)	0.52	13 (4%) 39 21	37, 55, 77, 101	0
43	L6	156/175 (89%)	0.27	1 (0%) 85 70	42, 49, 58, 71	0
43	l6	157/175 (89%)	0.49	6 (3%) 44 25	42, 54, 65, 71	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	L7	222/243 (91%)	0.10	2 (0%) 81 63	36, 42, 58, 72	0
44	l7	223/243 (91%)	0.20	3 (1%) 75 56	33, 41, 69, 86	0
45	L8	233/255 (91%)	0.74	6 (2%) 57 36	58, 71, 89, 96	0
45	l8	231/255 (90%)	1.12	34 (14%) 6 3	65, 80, 101, 106	0
46	L9	191/191 (100%)	0.62	8 (4%) 40 22	51, 59, 67, 72	0
46	l9	191/191 (100%)	0.24	0 100 100	39, 47, 59, 67	0
47	M0	211/220 (95%)	0.45	5 (2%) 59 38	39, 50, 74, 80	0
47	m0	213/220 (96%)	0.46	10 (4%) 36 19	33, 46, 75, 167	0
48	M1	169/173 (97%)	1.01	18 (10%) 11 6	61, 74, 82, 86	0
48	m1	169/173 (97%)	0.51	9 (5%) 32 17	44, 57, 67, 76	0
49	M3	193/198 (97%)	0.49	9 (4%) 36 19	35, 52, 76, 98	0
49	m3	194/198 (97%)	0.59	9 (4%) 37 20	35, 63, 86, 93	0
50	M4	136/137 (99%)	0.39	3 (2%) 62 41	46, 52, 62, 64	0
50	m4	137/137 (100%)	0.24	3 (2%) 62 41	41, 46, 61, 67	0
51	M5	203/203 (100%)	0.68	12 (5%) 28 15	36, 49, 59, 60	0
51	m5	203/203 (100%)	0.85	16 (7%) 18 10	40, 56, 66, 69	0
52	M6	197/198 (99%)	0.38	9 (4%) 37 20	37, 43, 57, 58	0
52	m6	197/198 (99%)	0.18	3 (1%) 72 52	30, 35, 55, 58	0
53	M7	183/183 (100%)	0.65	19 (10%) 11 6	39, 47, 73, 82	0
53	m7	155/183 (84%)	0.30	2 (1%) 75 56	36, 43, 53, 61	0
54	M8	185/185 (100%)	0.37	3 (1%) 70 49	37, 47, 59, 68	0
54	m8	185/185 (100%)	0.39	4 (2%) 62 41	36, 52, 60, 66	0
55	M9	188/188 (100%)	0.82	11 (5%) 28 15	58, 67, 117, 123	0
55	m9	188/188 (100%)	0.79	10 (5%) 32 17	53, 60, 108, 121	0
56	N0	172/172 (100%)	0.35	6 (3%) 47 27	43, 49, 57, 63	0
56	n0	172/172 (100%)	0.34	6 (3%) 47 27	35, 41, 49, 52	0
57	N1	159/159 (100%)	0.31	2 (1%) 75 56	39, 49, 71, 75	0
57	n1	159/159 (100%)	0.24	1 (0%) 85 70	34, 41, 66, 71	0
58	N2	100/120 (83%)	1.18	11 (11%) 10 5	81, 89, 92, 92	0
58	n2	98/120 (81%)	0.92	14 (14%) 6 3	70, 79, 83, 86	0
59	N3	136/136 (100%)	0.28	2 (1%) 72 52	43, 50, 55, 59	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
59	n3	136/136 (100%)	0.13	2 (1%) 72 52	30, 39, 48, 51	0
60	N4	98/155 (63%)	1.23	22 (22%) 2 1	49, 63, 112, 120	0
60	n4	135/155 (87%)	1.34	40 (29%) 1 1	38, 87, 303, 442	0
61	N5	121/141 (85%)	0.52	4 (3%) 49 29	51, 60, 72, 88	0
61	n5	120/141 (85%)	0.85	8 (6%) 24 13	50, 65, 80, 86	0
62	N6	126/126 (100%)	0.41	1 (0%) 82 65	40, 53, 61, 64	0
62	n6	126/126 (100%)	0.79	5 (3%) 42 23	46, 60, 71, 75	0
63	N7	135/135 (100%)	0.79	6 (4%) 39 21	71, 79, 92, 98	0
63	n7	135/135 (100%)	1.28	27 (20%) 3 1	75, 86, 100, 107	0
64	N8	148/148 (100%)	0.35	4 (2%) 56 35	30, 48, 62, 72	0
64	n8	148/148 (100%)	0.40	2 (1%) 73 53	31, 54, 63, 65	0
65	N9	58/58 (100%)	0.59	5 (8%) 16 9	35, 53, 81, 89	0
65	n9	58/58 (100%)	0.72	5 (8%) 16 9	32, 49, 69, 73	0
66	O0	97/104 (93%)	0.54	4 (4%) 41 23	67, 73, 84, 87	0
66	o0	100/104 (96%)	0.78	6 (6%) 27 15	66, 76, 86, 92	0
67	O1	109/112 (97%)	0.65	7 (6%) 25 14	52, 62, 76, 82	0
67	o1	109/112 (97%)	0.75	9 (8%) 17 9	44, 56, 81, 163	0
68	O2	127/129 (98%)	0.27	2 (1%) 70 49	32, 44, 49, 53	0
68	o2	127/129 (98%)	0.55	11 (8%) 16 9	31, 50, 57, 61	0
69	O3	106/106 (100%)	0.44	4 (3%) 44 25	37, 42, 56, 60	0
69	o3	106/106 (100%)	0.42	2 (1%) 66 45	34, 43, 59, 65	0
70	O4	112/120 (93%)	1.19	16 (14%) 6 3	52, 67, 82, 87	0
70	o4	112/120 (93%)	1.10	15 (13%) 7 4	51, 66, 88, 91	0
71	O5	119/119 (100%)	0.65	3 (2%) 58 37	49, 60, 66, 70	0
71	o5	119/119 (100%)	0.80	5 (4%) 40 22	57, 68, 76, 81	0
72	O6	99/99 (100%)	0.73	8 (8%) 18 10	51, 60, 77, 83	0
72	o6	99/99 (100%)	0.90	10 (10%) 12 6	59, 67, 77, 85	0
73	O7	87/87 (100%)	0.59	2 (2%) 61 39	37, 43, 60, 73	0
73	o7	87/87 (100%)	0.68	4 (4%) 37 20	37, 46, 74, 90	0
74	O8	77/77 (100%)	0.80	4 (5%) 33 17	75, 80, 87, 87	0
74	o8	77/77 (100%)	1.16	7 (9%) 15 8	81, 89, 108, 120	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	O9	50/50 (100%)	0.73	5 (10%) 12 6	45, 49, 51, 52	0
75	o9	50/50 (100%)	0.42	0 100 100	45, 50, 57, 66	0
76	Q0	52/52 (100%)	0.72	2 (3%) 44 25	48, 52, 61, 65	0
76	q0	52/52 (100%)	0.21	1 (1%) 66 45	36, 39, 47, 51	0
77	Q1	25/25 (100%)	0.98	2 (8%) 18 10	62, 63, 67, 68	0
77	q1	25/25 (100%)	0.91	2 (8%) 18 10	49, 51, 53, 55	0
78	Q2	105/105 (100%)	0.38	1 (0%) 79 61	39, 51, 63, 74	0
78	q2	105/105 (100%)	0.33	2 (1%) 66 45	38, 49, 59, 71	0
79	Q3	91/91 (100%)	0.34	0 100 100	46, 53, 63, 69	0
79	q3	91/91 (100%)	0.37	3 (3%) 49 29	43, 51, 65, 71	0
80	m2	0/150	-	-	-	-
81	p0	143/311 (45%)	1.31	22 (15%) 5 2	83, 101, 174, 180	0
82	p1	0/47	-	-	-	-
83	p2	0/46	-	-	-	-
All	All	32994/35138 (93%)	0.75	2874 (8%) 16 9	29, 66, 117, 442	2 (0%)

All (2874) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
16	C4	15	GLY	9.6
1	2	194	U	8.9
39	l2	253	GLN	8.6
36	1	1236	G	7.2
1	6	718	U	6.7
1	6	662	U	6.7
33	e1	80	ARG	6.5
58	N2	27	VAL	6.4
73	o7	88	ALA	6.4
36	1	1952	G	6.4
10	S8	21	PHE	6.4
19	c7	100	LEU	6.3
1	6	663	U	6.2
1	6	1217	A	6.1
2	s0	173	ILE	6.1
36	1	2772	C	6.0
16	C4	14	PHE	6.0
36	1	1237	G	6.0
1	2	1702	A	5.9

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Mol	Chain	Res	Type	RSRZ
33	e1	145	HIS	5.9
39	l2	249	SER	5.9
19	c7	57	LEU	5.8
33	e1	95	HIS	5.8
36	1	1349	G	5.8
36	5	2874	G	5.8
16	C4	16	VAL	5.6
72	O6	27	SER	5.6
2	s0	6	THR	5.6
30	D8	21	SER	5.6
60	N4	75	THR	5.6
18	c6	139	GLN	5.5
33	e1	77	GLY	5.5
17	C5	104	GLN	5.5
33	e1	78	LYS	5.5
81	p0	81	LYS	5.5
19	c7	8	THR	5.5
60	N4	76	VAL	5.4
1	2	1756[A]	A	5.3
18	c6	141	SER	5.3
63	n7	56	LYS	5.3
7	S5	37	GLN	5.3
4	s2	92	ALA	5.3
45	l8	124	ASP	5.2
4	s2	90	THR	5.2
39	l2	252	THR	5.2
20	c8	146	ALA	5.2
36	1	1955	U	5.2
8	S6	180	THR	5.2
1	6	229	U	5.2
14	c2	75	VAL	5.1
33	E1	87	THR	5.1
51	M5	58	GLY	5.1
19	c7	118	PRO	5.1
31	d9	5	ASN	5.1
3	S1	47	LEU	5.0
34	SR	36	ALA	5.0
3	S1	46	THR	5.0
8	S6	124	LEU	5.0
73	O7	88	ALA	5.0
3	S1	93	GLY	5.0
17	c5	4	ALA	4.9

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Mol	Chain	Res	Type	RSRZ
19	C7	125	SER	4.9
19	c7	116	LYS	4.9
75	O9	46	ARG	4.9
60	N4	86	SER	4.9
1	6	1707	A	4.9
36	1	1238	C	4.9
36	1	1350	A	4.9
74	o8	2	ALA	4.9
1	2	656	G	4.9
36	1	1351	U	4.9
18	c6	19	VAL	4.9
21	C9	92	LYS	4.9
1	6	656	G	4.9
2	s0	20	ALA	4.8
14	c2	20	ALA	4.8
56	N0	1	MET	4.8
1	2	261	U	4.8
10	S8	20	GLN	4.8
33	e1	147	VAL	4.8
31	d9	4	GLU	4.8
21	C9	72	GLY	4.7
36	5	249	U	4.7
38	4	82	U	4.7
36	1	1352	A	4.7
36	5	1017	C	4.7
34	sR	28	GLY	4.7
53	M7	174	GLY	4.7
14	c2	107	ASP	4.7
36	1	1028	U	4.7
2	s0	146	LEU	4.7
19	C7	123	ASN	4.7
21	C9	83	ALA	4.7
1	2	1625	C	4.7
3	S1	25	THR	4.6
31	d9	6	VAL	4.6
2	s0	54	TRP	4.6
47	m0	111	LEU	4.6
19	c7	3	ARG	4.6
53	M7	168	LEU	4.6
2	S0	107	PHE	4.6
2	s0	2	SER	4.6
9	s7	93	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
19	c7	117	LEU	4.6
60	n4	78	ALA	4.6
1	2	1687	U	4.5
60	n4	72	SER	4.5
19	c7	102	VAL	4.5
1	6	658	C	4.5
71	O5	120	ALA	4.5
8	s6	80	ASN	4.5
36	1	2996	U	4.5
22	D0	19	ILE	4.5
26	d4	18	LEU	4.5
45	L8	93	LEU	4.5
8	s6	35	GLU	4.5
2	s0	162	CYS	4.5
20	c8	18	LEU	4.4
3	S1	94	LYS	4.4
60	n4	74	LYS	4.4
14	c2	123	VAL	4.4
33	E1	146	SER	4.4
14	c2	59	LEU	4.4
36	1	1260	A	4.4
19	c7	35	CYS	4.4
52	M6	42	ASN	4.4
72	o6	28	TYR	4.4
7	s5	37	GLN	4.4
12	C0	2	LEU	4.4
20	C8	32	LEU	4.4
81	p0	54	GLY	4.4
23	D1	34	ILE	4.4
36	1	1234	G	4.3
1	2	1370	U	4.3
39	L2	12	ALA	4.3
47	m0	112	GLN	4.3
1	6	720	G	4.3
60	N4	98	PRO	4.3
81	p0	192	ASP	4.3
19	c7	53	TYR	4.3
19	c7	120	SER	4.3
34	SR	79	TYR	4.3
53	M7	184	ALA	4.3
19	c7	17	ILE	4.3
14	c2	21	GLU	4.3

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Mol	Chain	Res	Type	RSRZ
36	5	620	U	4.3
67	o1	82	GLU	4.3
19	c7	25	THR	4.3
23	D1	69	LEU	4.3
2	S0	28	ASN	4.3
16	C4	75	GLY	4.3
17	c5	136	SER	4.3
1	2	234	G	4.3
73	o7	87	SER	4.3
19	c7	121	VAL	4.3
27	D5	97	LYS	4.2
1	2	238	U	4.2
36	5	1580	A	4.2
36	5	2506	U	4.2
58	N2	94	ARG	4.2
65	N9	2	ALA	4.2
34	sR	136	ILE	4.2
33	e1	146	SER	4.2
43	l6	24	ALA	4.2
38	8	81	U	4.2
1	2	1601	G	4.2
1	6	651	G	4.2
1	6	669	G	4.2
16	C4	27	PHE	4.2
36	1	1243	G	4.2
19	c7	66	VAL	4.2
1	2	74	U	4.2
1	2	1708	U	4.2
1	6	721	U	4.2
38	8	80	A	4.2
1	6	668	C	4.2
25	d3	110	LYS	4.2
16	C4	89	THR	4.2
36	5	1349	G	4.2
36	5	2503	G	4.2
3	s1	89	ASP	4.1
7	S5	36	ALA	4.1
11	S9	181	ALA	4.1
1	6	719	U	4.1
3	S1	45	LYS	4.1
15	C3	61	THR	4.1
53	M7	166	VAL	4.1

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Mol	Chain	Res	Type	RSRZ
3	S1	207	LEU	4.1
14	c2	45	LEU	4.1
36	1	2507	C	4.1
13	C1	146	ALA	4.1
74	O8	29	LYS	4.1
18	C6	21	HIS	4.1
1	6	194	U	4.1
1	6	1285	U	4.1
5	S3	44	THR	4.1
36	5	3275	U	4.1
17	c5	133	ALA	4.1
19	c7	90	ALA	4.1
45	l8	114	ALA	4.1
51	m5	147	ARG	4.1
2	s0	57	LEU	4.1
3	S1	96	LEU	4.1
1	2	715	U	4.1
34	sR	244	ALA	4.1
69	o3	60	ARG	4.1
2	s0	189	VAL	4.1
18	c6	4	VAL	4.1
19	c7	115	LEU	4.1
20	C8	22	VAL	4.1
34	SR	71	CYS	4.1
3	S1	164	ILE	4.1
8	S6	175	ILE	4.1
18	c6	8	GLN	4.1
11	S9	141	VAL	4.0
1	6	678	A	4.0
36	1	2404	A	4.0
8	s6	169	TYR	4.0
33	e1	85	TYR	4.0
72	O6	26	ILE	4.0
2	s0	40	ALA	4.0
53	M7	178	ALA	4.0
13	C1	91	LEU	4.0
1	2	714	G	4.0
14	c2	80	ASN	4.0
9	s7	60	ILE	4.0
67	O1	69	TYR	4.0
1	2	1703	C	4.0
36	5	1238	C	4.0

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Mol	Chain	Res	Type	RSRZ
19	c7	56	HIS	4.0
1	2	280	U	4.0
4	s2	91	ARG	4.0
34	SR	43	ILE	4.0
13	c1	3	THR	4.0
36	1	2522	G	4.0
28	D6	2	PRO	4.0
3	S1	66	VAL	4.0
6	S4	25	GLY	4.0
36	1	1016	C	4.0
22	d0	57	ARG	4.0
25	D3	3	LYS	4.0
51	m5	177	GLY	4.0
1	2	1699	G	4.0
19	C7	95	ARG	4.0
36	5	244	G	4.0
1	2	506	A	4.0
1	2	1707	A	4.0
1	6	226	A	4.0
1	6	239	C	4.0
1	6	659	C	4.0
35	sM	49	LYS	4.0
72	o6	29	LYS	4.0
2	s0	4	PRO	3.9
48	M1	148	VAL	3.9
1	6	75	U	3.9
72	o6	26	ILE	3.9
19	c7	10	LYS	3.9
16	C4	102	LEU	3.9
21	C9	85	SER	3.9
36	1	1245	A	3.9
36	5	2507	C	3.9
14	c2	71	ILE	3.9
36	5	981	U	3.9
60	n4	128	ALA	3.9
19	c7	119	LEU	3.9
22	d0	90	TYR	3.9
3	S1	140	ILE	3.9
18	c6	140	LYS	3.9
36	5	1016	C	3.9
36	5	1582	C	3.9
36	5	1631	C	3.9

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Mol	Chain	Res	Type	RSRZ
11	S9	2	PRO	3.9
11	s9	2	PRO	3.9
26	d4	26	ASP	3.9
34	SR	122	ILE	3.9
7	S5	71	ALA	3.9
1	2	217	A	3.9
36	5	1237	G	3.9
12	c0	81	ASN	3.9
24	d2	29	PRO	3.9
6	s4	134	LYS	3.9
70	O4	21	LYS	3.9
14	c2	126	TRP	3.9
19	c7	113	LEU	3.9
31	d9	7	TRP	3.9
19	C7	53	TYR	3.8
31	D9	28	THR	3.8
1	2	1711	C	3.8
1	6	1370	U	3.8
8	S6	190	GLN	3.8
36	5	1567	U	3.8
34	SR	91	LEU	3.8
1	6	1712	A	3.8
24	D2	108	ALA	3.8
47	m0	221	ALA	3.8
33	e1	102	VAL	3.8
1	2	913	G	3.8
3	S1	226	GLY	3.8
4	s2	93	GLY	3.8
34	SR	115	ILE	3.8
2	s0	177	LEU	3.8
70	O4	2	ALA	3.8
29	D7	49	HIS	3.8
1	2	1704	U	3.8
36	1	979	U	3.8
1	2	716	C	3.8
36	1	1581	C	3.8
7	S5	194	LEU	3.8
36	1	1261	G	3.8
19	C7	126	ALA	3.8
6	s4	131	LEU	3.8
16	C4	137	LEU	3.8
1	6	657	U	3.8

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Mol	Chain	Res	Type	RSRZ
1	6	711	U	3.8
70	O4	73	SER	3.7
36	5	1262	G	3.7
2	s0	194	PRO	3.7
60	n4	133	THR	3.7
34	SR	83	ALA	3.7
33	e1	98	VAL	3.7
36	5	250	U	3.7
36	5	1192	C	3.7
10	S8	8	ARG	3.7
10	s8	8	ARG	3.7
18	c6	3	ALA	3.7
33	e1	152	ALA	3.7
9	S7	109	VAL	3.7
8	S6	80	ASN	3.7
10	S8	22	ARG	3.7
35	sM	50	ASN	3.7
1	2	320	U	3.7
36	5	2505	U	3.7
59	N3	2	SER	3.7
19	c7	103	ASP	3.7
1	2	1686	C	3.7
35	sM	84	LYS	3.7
2	s0	96	THR	3.7
49	m3	80	VAL	3.7
21	C9	89	ARG	3.7
2	s0	48	ILE	3.7
1	6	722	G	3.7
39	l2	248	GLY	3.7
36	1	1103	A	3.7
36	1	2401	A	3.7
36	5	1350	A	3.7
51	m5	185	ALA	3.7
18	c6	37	THR	3.7
36	1	3360	C	3.7
53	M7	167	ARG	3.7
15	C3	5	HIS	3.7
18	c6	21	HIS	3.7
19	c7	69	ILE	3.7
34	sR	117	LYS	3.7
30	D8	44	VAL	3.6
79	q3	2	ALA	3.6

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Mol	Chain	Res	Type	RSRZ
36	1	1820	U	3.6
36	5	1820	U	3.6
35	SM	87	THR	3.6
53	M7	182	ILE	3.6
13	c1	4	GLU	3.6
13	c1	117	VAL	3.6
18	C6	3	ALA	3.6
60	N4	72	SER	3.6
8	S6	149	LYS	3.6
1	6	1268	G	3.6
13	c1	42	PHE	3.6
18	c6	46	PHE	3.6
34	sR	294	TRP	3.6
60	n4	132	GLY	3.6
1	6	1702	A	3.6
1	2	1709	C	3.6
61	n5	23	ALA	3.6
33	E1	103	LEU	3.6
34	sR	72	THR	3.6
19	c7	105	GLN	3.6
34	sR	61	PHE	3.6
15	C3	2	GLY	3.6
36	1	2508	U	3.6
11	S9	6	ARG	3.6
14	c2	109	GLU	3.6
36	1	2874	G	3.6
36	5	3276	G	3.6
1	2	505	A	3.6
2	s0	170	ILE	3.6
20	C8	136	GLN	3.6
60	N4	73	ARG	3.6
13	C1	147	ALA	3.6
36	1	1568	U	3.6
36	5	246	U	3.6
1	2	713	A	3.5
1	2	1600	A	3.5
1	6	661	A	3.5
1	6	1756[A]	A	3.5
36	1	1242	G	3.5
36	5	491	C	3.5
10	s8	67	TRP	3.5
34	sR	119	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
31	d9	16	LYS	3.5
34	sR	46	LYS	3.5
2	s0	176	LEU	3.5
14	C2	62	LEU	3.5
58	N2	89	LEU	3.5
1	2	504	U	3.5
32	e0	62	VAL	3.5
2	s0	19	ALA	3.5
5	s3	115	ILE	3.5
34	SR	136	ILE	3.5
36	1	2539	C	3.5
70	O4	20	ILE	3.5
34	sR	250	TYR	3.5
65	n9	27	TYR	3.5
9	s7	85	PHE	3.5
18	c6	132	LYS	3.5
34	SR	113	VAL	3.5
2	s0	17	LEU	3.5
19	c7	95	ARG	3.5
70	O4	16	ARG	3.5
75	O9	45	ARG	3.5
48	M1	96	PHE	3.5
1	2	1486	G	3.5
3	S1	178	GLY	3.5
14	c2	86	VAL	3.5
2	s0	14	ALA	3.5
9	s7	58	LEU	3.5
1	6	794	U	3.5
36	1	981	U	3.5
36	5	1569	U	3.5
20	C8	30	TYR	3.5
8	S6	41	VAL	3.5
14	c2	116	VAL	3.5
22	D0	81	THR	3.5
70	o4	68	THR	3.5
56	N0	2	ALA	3.5
59	n3	2	SER	3.5
15	C3	4	MET	3.5
36	1	3154	C	3.5
21	C9	44	GLU	3.4
21	C9	38	LYS	3.4
66	o0	32	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
19	c7	110	VAL	3.4
49	M3	174	ARG	3.4
36	5	1581	C	3.4
60	n4	70	LYS	3.4
1	2	493	U	3.4
1	6	228	G	3.4
36	5	1356	U	3.4
36	5	2996	U	3.4
66	o0	67	VAL	3.4
81	p0	188	VAL	3.4
20	c8	15	LEU	3.4
34	sR	168	THR	3.4
60	n4	131	ALA	3.4
31	d9	27	HIS	3.4
19	c7	65	PRO	3.4
19	c7	122	ILE	3.4
21	C9	90	PRO	3.4
22	d0	66	SER	3.4
26	d4	69	SER	3.4
68	o2	16	LYS	3.4
1	2	1346	A	3.4
36	1	1571	A	3.4
31	d9	23	VAL	3.4
1	2	491	C	3.4
36	1	1232	C	3.4
56	n0	2	ALA	3.4
1	2	794	U	3.4
9	S7	105	THR	3.4
45	l8	45	ASN	3.4
58	N2	93	ILE	3.4
1	6	677	G	3.4
3	S1	97	LEU	3.4
14	c2	121	VAL	3.4
10	S8	167	ALA	3.4
1	6	225	A	3.4
7	S5	137	ILE	3.4
26	d4	128	LYS	3.4
33	e1	79	LYS	3.4
60	n4	69	LYS	3.4
1	6	717	C	3.4
1	2	494	U	3.4
8	s6	88	ARG	3.4

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Mol	Chain	Res	Type	RSRZ
19	C7	9	VAL	3.4
19	c7	11	ARG	3.4
46	L9	168	ARG	3.4
34	SR	62	LYS	3.4
2	s0	161	PRO	3.4
17	c5	125	PRO	3.4
33	E1	88	PRO	3.4
22	d0	121	ASN	3.3
36	5	1103	A	3.3
13	c1	115	PHE	3.3
1	2	721	U	3.3
1	6	710	U	3.3
8	S6	114	VAL	3.3
14	C2	88	LEU	3.3
36	5	1630	U	3.3
45	l8	121	SER	3.3
55	M9	72	GLU	3.3
51	M5	57	GLN	3.3
2	s0	205	ARG	3.3
31	D9	8	PHE	3.3
48	m1	108	GLU	3.3
52	M6	40	GLU	3.3
1	2	1371	A	3.3
1	6	1371	A	3.3
63	n7	52	LYS	3.3
5	S3	88	ALA	3.3
7	S5	190	ILE	3.3
36	1	1094	U	3.3
1	6	1711	C	3.3
36	1	1280	C	3.3
36	5	1031	C	3.3
11	S9	130	THR	3.3
25	D3	10	ASN	3.3
31	D9	6	VAL	3.3
49	m3	178	LYS	3.3
1	2	712	G	3.3
8	S6	1	MET	3.3
2	S0	44	GLY	3.3
9	S7	8	ILE	3.3
18	c6	29	ILE	3.3
19	c7	98	GLY	3.3
36	1	2995	A	3.3

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Mol	Chain	Res	Type	RSRZ
38	8	79	A	3.3
2	s0	23	HIS	3.3
45	l8	123	GLN	3.3
55	M9	5	ARG	3.3
60	n4	75	THR	3.3
1	2	726	C	3.3
6	S4	44	LEU	3.3
18	c6	138	PHE	3.3
33	e1	100	LEU	3.3
36	1	1017	C	3.3
36	1	1762	C	3.3
19	C7	97	ASN	3.3
21	C9	119	LYS	3.3
23	d1	35	ASN	3.3
3	S1	156	ALA	3.3
21	C9	116	ILE	3.3
42	L5	2	ALA	3.3
18	C6	136	SER	3.3
18	c6	142	TYR	3.3
19	c7	112	SER	3.3
1	2	1692	G	3.3
11	s9	130	THR	3.3
58	n2	100	THR	3.3
65	N9	54	LEU	3.3
4	s2	64	LYS	3.3
36	1	1025	A	3.3
36	5	1566	A	3.3
45	l8	246	MET	3.3
2	S0	144	ILE	3.3
31	d9	17	GLY	3.3
60	n4	62	GLY	3.3
70	O4	66	SER	3.2
3	S1	61	LEU	3.2
18	c6	44	LEU	3.2
32	E0	38	LEU	3.2
34	SR	81	LEU	3.2
61	n5	24	LEU	3.2
53	M7	163	LYS	3.2
13	C1	3	THR	3.2
22	D0	78	THR	3.2
7	S5	99	MET	3.2
56	n0	1	MET	3.2

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Mol	Chain	Res	Type	RSRZ
42	L5	7	ALA	3.2
81	p0	32	ASN	3.2
1	2	725	U	3.2
1	6	655	G	3.2
36	1	1278	A	3.2
36	5	1352	A	3.2
1	2	708	C	3.2
1	2	1700	C	3.2
36	1	1563	C	3.2
37	7	73	C	3.2
60	n4	77	LYS	3.2
4	S2	57	PHE	3.2
3	S1	92	GLN	3.2
14	c2	37	VAL	3.2
16	C4	80	HIS	3.2
19	c7	62	GLN	3.2
81	p0	84	VAL	3.2
10	S8	144	ALA	3.2
63	n7	124	ALA	3.2
10	s8	135	LYS	3.2
33	e1	90	LYS	3.2
1	6	1232	U	3.2
36	5	1764	U	3.2
18	C6	41	PRO	3.2
1	6	539	G	3.2
1	6	676	G	3.2
16	c4	125	SER	3.2
19	C7	110	VAL	3.2
53	M7	165	VAL	3.2
33	E1	95	HIS	3.2
1	2	233	C	3.2
19	c7	108	ASP	3.2
21	C9	35	ASP	3.2
34	SR	12	THR	3.2
34	SR	72	THR	3.2
36	5	1032	C	3.2
70	o4	16	ARG	3.2
12	C0	28	ASN	3.2
14	c2	62	LEU	3.2
18	c6	49	TYR	3.2
34	SR	206	PRO	3.2
6	s4	183	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
1	6	1398	U	3.2
5	S3	179	GLN	3.2
8	S6	182	GLN	3.2
58	n2	97	SER	3.2
39	l2	247	ARG	3.2
10	S8	179	CYS	3.2
53	M7	2	ALA	3.2
6	s4	60	GLU	3.2
36	5	3154	C	3.2
14	c2	63	VAL	3.2
14	c2	120	VAL	3.2
52	m6	110	PRO	3.2
3	S1	204	ILE	3.2
5	S3	217	ILE	3.2
28	D6	44	ILE	3.2
47	m0	113	GLN	3.2
72	O6	56	ARG	3.2
7	s5	96	SER	3.2
54	M8	13	SER	3.2
4	S2	90	THR	3.2
34	sR	27	ALA	3.2
41	l4	62	ALA	3.2
70	O4	32	ALA	3.2
1	6	667	U	3.1
2	s0	190	ASP	3.1
5	S3	148	LYS	3.1
19	c7	111	LYS	3.1
36	1	2873	U	3.1
36	5	252	U	3.1
34	sR	251	TRP	3.1
67	o1	4	LEU	3.1
36	1	1259	A	3.1
36	1	3375	A	3.1
19	c7	97	ASN	3.1
2	s0	110	TYR	3.1
23	D1	36	VAL	3.1
47	m0	217	PHE	3.1
63	n7	74	VAL	3.1
1	2	1624	C	3.1
1	6	660	G	3.1
36	5	2579	G	3.1
8	S6	186	ARG	3.1

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Mol	Chain	Res	Type	RSRZ
17	c5	50	THR	3.1
24	d2	108	ALA	3.1
81	p0	200	SER	3.1
2	s0	3	LEU	3.1
8	S6	3	LEU	3.1
30	d8	24	GLY	3.1
60	N4	89	LEU	3.1
3	S1	29	TRP	3.1
1	6	240	U	3.1
36	5	245	U	3.1
11	S9	148	VAL	3.1
42	l5	55	PHE	3.1
63	n7	136	PHE	3.1
2	s0	152	PRO	3.1
9	S7	97	ARG	3.1
21	C9	91	TYR	3.1
42	l5	57	ASN	3.1
36	1	2872	A	3.1
18	C6	132	LYS	3.1
60	n4	63	ILE	3.1
2	s0	5	ALA	3.1
2	s0	145	ALA	3.1
1	2	1705	C	3.1
36	5	247	C	3.1
36	5	1232	C	3.1
34	sR	202	LEU	3.1
1	6	1233	G	3.1
1	6	1698	G	3.1
3	S1	63	GLY	3.1
36	1	1256	G	3.1
36	5	1246	G	3.1
27	D5	48	ASP	3.1
60	n4	67	VAL	3.1
34	SR	90	ARG	3.1
69	O3	48	ARG	3.1
17	c5	109	PRO	3.1
12	c0	79	TYR	3.1
1	2	231	U	3.1
11	s9	10	LYS	3.1
22	D0	20	ILE	3.1
36	1	3287	U	3.1
49	M3	129	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
2	s0	187	ALA	3.1
3	S1	227	ALA	3.1
4	s2	87	GLN	3.1
18	C6	8	GLN	3.1
17	C5	50	THR	3.1
36	1	1274	A	3.1
7	s5	102	ARG	3.1
12	c0	84	GLU	3.1
14	c2	30	VAL	3.1
17	C5	126	VAL	3.1
39	L2	230	VAL	3.1
28	D6	20	PRO	3.1
29	D7	38	PRO	3.1
1	2	228	G	3.1
1	6	1228	G	3.1
36	5	442	G	3.1
65	n9	29	TYR	3.1
78	Q2	11	TYR	3.1
24	D2	80	ASN	3.1
26	d4	34	ASN	3.1
60	n4	121	ALA	3.1
1	2	657	U	3.1
1	6	238	U	3.1
2	s0	172	LEU	3.1
36	1	3275	U	3.1
8	S6	219	ARG	3.1
8	s6	177	ARG	3.1
19	C7	3	ARG	3.1
34	SR	102	ARG	3.1
28	D6	29	SER	3.1
53	M7	162	GLU	3.1
49	M3	98	ASP	3.1
27	D5	41	ILE	3.1
12	c0	65	TYR	3.1
1	6	731	C	3.0
36	1	1196	C	3.0
36	5	1239	C	3.0
12	c0	2	LEU	3.0
14	c2	118	ALA	3.0
16	C4	29	HIS	3.0
11	s9	3	ARG	3.0
25	D3	2	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
36	1	3361	G	3.0
36	5	1261	G	3.0
36	5	1354	G	3.0
36	5	1576	G	3.0
60	n4	84	GLY	3.0
1	6	665	U	3.0
2	s0	29	VAL	3.0
26	d4	27	VAL	3.0
31	d9	8	PHE	3.0
42	l5	270	LYS	3.0
19	c7	96	SER	3.0
12	C0	41	TYR	3.0
58	N2	108	TYR	3.0
2	s0	188	LEU	3.0
9	s7	52	ALA	3.0
19	c7	26	LEU	3.0
60	n4	39	LEU	3.0
36	5	1027	A	3.0
36	5	1562	C	3.0
19	c7	99	VAL	3.0
25	D3	102	VAL	3.0
30	D8	15	VAL	3.0
33	E1	94	LYS	3.0
43	l6	20	LYS	3.0
12	c0	27	PHE	3.0
2	s0	34	GLU	3.0
50	m4	107	GLU	3.0
1	6	1708	U	3.0
19	C7	89	SER	3.0
36	1	1353	U	3.0
36	5	2875	U	3.0
36	1	3286	G	3.0
5	s3	59	LEU	3.0
54	m8	22	ASP	3.0
63	N7	5	LEU	3.0
6	s4	26	CYS	3.0
3	s1	202	LYS	3.0
6	S4	74	GLY	3.0
55	m9	68	GLN	3.0
60	N4	77	LYS	3.0
22	D0	51	VAL	3.0
30	D8	57	MET	3.0

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Mol	Chain	Res	Type	RSRZ
36	5	2772	C	3.0
43	l6	129	GLU	3.0
61	n5	63	ILE	3.0
2	s0	207	PRO	3.0
3	S1	206	PRO	3.0
2	s0	18	LEU	3.0
7	S5	198	LEU	3.0
10	s8	165	LEU	3.0
53	M7	161	ALA	3.0
60	n4	73	ARG	3.0
36	1	1235	U	3.0
36	5	492	U	3.0
36	5	1555	U	3.0
18	C6	74	HIS	3.0
8	s6	33	GLY	3.0
18	c6	11	GLY	3.0
47	m0	194	GLY	3.0
52	M6	80	PHE	3.0
5	S3	142	LEU	3.0
19	c7	87	GLU	3.0
45	l8	25	PRO	3.0
2	S0	187	ALA	3.0
34	SR	162	ALA	3.0
10	s8	117	TYR	3.0
2	s0	92	HIS	3.0
25	D3	4	GLY	3.0
31	d9	29	GLY	3.0
1	2	193	U	3.0
1	2	1314	U	3.0
36	1	3155	U	3.0
39	L2	253	GLN	3.0
6	S4	162	ILE	3.0
7	S5	27	THR	3.0
21	C9	45	MET	3.0
34	sR	121	MET	3.0
14	c2	97	LEU	2.9
19	c7	24	LEU	2.9
60	n4	71	ARG	2.9
1	6	1697	G	2.9
36	1	2714	G	2.9
36	5	2549	G	2.9
3	S1	141	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
33	e1	81	LYS	2.9
33	e1	101	ALA	2.9
41	l4	346	LYS	2.9
70	O4	67	LYS	2.9
4	S2	164	SER	2.9
36	1	2207	A	2.9
2	s0	47	VAL	2.9
2	s0	158	VAL	2.9
11	s9	148	VAL	2.9
14	C2	107	ASP	2.9
14	C2	117	GLY	2.9
39	L2	201	GLY	2.9
3	S1	100	PHE	2.9
49	M3	102	GLN	2.9
36	1	1275	C	2.9
2	s0	64	ILE	2.9
16	C4	39	ILE	2.9
60	N4	49	ILE	2.9
1	6	664	U	2.9
3	s1	217	LEU	2.9
22	D0	67	THR	2.9
31	d9	28	THR	2.9
36	5	1348	U	2.9
69	O3	60	ARG	2.9
6	S4	134	LYS	2.9
34	sR	62	LYS	2.9
50	m4	8	LYS	2.9
34	SR	65	SER	2.9
41	l4	53	SER	2.9
48	m1	116	TYR	2.9
20	C8	38	VAL	2.9
55	M9	57	VAL	2.9
19	c7	114	GLY	2.9
63	n7	58	GLY	2.9
1	2	702	G	2.9
1	2	732	G	2.9
1	6	214	G	2.9
1	6	1696	G	2.9
36	5	1565	G	2.9
36	5	1953	G	2.9
48	m1	127	PHE	2.9
12	c0	1	MET	2.9

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Mol	Chain	Res	Type	RSRZ
46	L9	144	ILE	2.9
1	2	740	A	2.9
1	2	1160	A	2.9
22	D0	26	LEU	2.9
16	C4	26	THR	2.9
29	D7	70	LYS	2.9
65	N9	25	LYS	2.9
9	S7	12	ALA	2.9
18	c6	18	ALA	2.9
36	1	1228	C	2.9
60	N4	65	GLU	2.9
1	2	718	U	2.9
1	2	1414	U	2.9
1	2	1627	U	2.9
36	1	1095	U	2.9
36	1	1564	U	2.9
36	1	1764	U	2.9
33	e1	106	TYR	2.9
22	D0	120	SER	2.9
40	l3	245	GLY	2.9
11	S9	3	ARG	2.9
67	O1	14	ILE	2.9
16	c4	102	LEU	2.9
20	C8	17	LEU	2.9
41	l4	187	LEU	2.9
62	n6	120	GLN	2.9
33	e1	82	LYS	2.9
2	s0	192	THR	2.9
14	c2	23	THR	2.9
3	S1	60	ALA	2.9
5	s3	144	ALA	2.9
16	C4	40	ALA	2.9
22	d0	119	ALA	2.9
27	d5	86	GLU	2.9
57	N1	121	ALA	2.9
68	o2	127	ALA	2.9
36	5	980	A	2.9
41	l4	65	TRP	2.9
4	s2	63	VAL	2.9
1	6	1447	C	2.9
1	6	822	U	2.9
2	s0	82	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
36	1	2771	U	2.9
36	5	1353	U	2.9
72	O6	28	TYR	2.9
9	s7	92	PHE	2.9
2	s0	9	LEU	2.9
2	s0	198	MET	2.9
26	D4	7	ILE	2.9
34	SR	121	MET	2.9
45	l8	32	LYS	2.9
45	l8	106	LYS	2.9
60	N4	69	LYS	2.9
19	C7	25	THR	2.9
61	N5	23	ALA	2.9
55	m9	22	VAL	2.9
60	n4	76	VAL	2.9
8	S6	154	ARG	2.9
1	2	1410	A	2.9
1	2	1701	A	2.9
2	S0	102	PHE	2.9
2	s0	44	GLY	2.9
7	s5	152	GLY	2.9
26	D4	71	GLY	2.9
31	d9	12	ARG	2.9
34	sR	79	TYR	2.9
1	6	1699	G	2.9
2	s0	160	ILE	2.9
7	S5	199	ILE	2.9
10	S8	152	ILE	2.9
10	s8	121	LEU	2.9
36	5	1236	G	2.9
50	M4	8	LYS	2.9
13	C1	2	SER	2.8
1	2	1205	C	2.8
18	C6	139	GLN	2.8
36	1	1279	C	2.8
13	C1	145	ALA	2.8
52	M6	185	ALA	2.8
60	n4	65	GLU	2.8
17	c5	5	VAL	2.8
33	e1	150	VAL	2.8
41	l4	199	TRP	2.8
2	s0	179	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
2	s0	51	GLY	2.8
28	D6	19	LYS	2.8
28	d6	19	LYS	2.8
11	s9	140	ILE	2.8
14	c2	136	ILE	2.8
21	C9	79	LEU	2.8
27	d5	75	LEU	2.8
33	e1	103	LEU	2.8
49	m3	179	PHE	2.8
1	6	538	A	2.8
1	6	754	A	2.8
36	1	1580	A	2.8
1	2	836	U	2.8
1	2	1626	U	2.8
1	2	1698	G	2.8
1	6	1473	U	2.8
45	l8	127	PRO	2.8
33	e1	86	THR	2.8
24	d2	118	ARG	2.8
28	D6	86	VAL	2.8
35	SM	88	ARG	2.8
36	1	1255	C	2.8
40	l3	146	ARG	2.8
71	O5	96	GLU	2.8
14	C2	50	LYS	2.8
30	D8	43	ASN	2.8
60	N4	97	LYS	2.8
2	s0	184	LEU	2.8
14	c2	28	LEU	2.8
16	C4	87	GLY	2.8
18	C6	10	PHE	2.8
20	c8	17	LEU	2.8
72	O6	31	GLY	2.8
74	o8	11	PHE	2.8
70	o4	81	CYS	2.8
60	n4	79	GLN	2.8
34	sR	26	SER	2.8
35	SM	85	SER	2.8
55	m9	189	ALA	2.8
7	s5	129	PRO	2.8
17	C5	53	PRO	2.8
63	N7	50	PRO	2.8

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Mol	Chain	Res	Type	RSRZ
3	S1	185	THR	2.8
16	C4	79	VAL	2.8
6	S4	60	GLU	2.8
17	C5	14	THR	2.8
22	d0	70	THR	2.8
36	1	1026	A	2.8
36	1	3362	A	2.8
1	2	132	U	2.8
1	6	227	U	2.8
14	c2	41	LEU	2.8
24	D2	11	LEU	2.8
7	s5	130	ILE	2.8
17	c5	6	ASN	2.8
45	l8	222	PHE	2.8
1	2	1154	G	2.8
1	2	1155	G	2.8
2	s0	175	TYR	2.8
11	s9	8	TYR	2.8
2	s0	15	GLN	2.8
15	c3	62	GLN	2.8
18	c6	119	ALA	2.8
62	n6	26	GLN	2.8
13	c1	116	ARG	2.8
78	q2	18	ARG	2.8
11	s9	46	SER	2.8
12	C0	22	VAL	2.8
18	c6	5	PRO	2.8
18	c6	121	SER	2.8
19	C7	7	LYS	2.8
31	D9	26	SER	2.8
60	N4	74	LYS	2.8
3	S1	37	THR	2.8
4	S2	208	GLU	2.8
11	s9	93	LEU	2.8
14	c2	58	LEU	2.8
56	N0	128	GLU	2.8
8	S6	50	PHE	2.8
34	sR	123	ILE	2.8
6	s4	74	GLY	2.8
22	d0	54	GLY	2.8
21	c9	101	ASN	2.8
1	2	507	U	2.8

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Mol	Chain	Res	Type	RSRZ
1	6	232	U	2.8
1	6	666	U	2.8
1	6	673	A	2.8
1	6	1390	U	2.8
2	S0	110	TYR	2.8
36	1	1356	U	2.8
36	1	1763	U	2.8
36	1	2205	U	2.8
36	1	2971	A	2.8
36	5	3396	U	2.8
18	C6	68	ARG	2.8
1	2	704	C	2.8
1	2	1599	C	2.8
11	S9	16	LYS	2.8
16	C4	65	GLN	2.8
27	D5	94	LYS	2.8
2	s0	181	VAL	2.8
4	S2	86	VAL	2.8
9	S7	100	PRO	2.8
17	C5	76	VAL	2.8
26	d4	12	VAL	2.8
11	s9	76	LEU	2.8
14	C2	78	LEU	2.8
34	SR	32	LEU	2.8
11	s9	156	ILE	2.8
39	l2	16	PHE	2.7
45	l8	237	ILE	2.8
46	L9	134	ILE	2.8
4	S2	163	GLY	2.7
56	N0	74	ASN	2.7
11	s9	174	ARG	2.7
19	c7	67	ARG	2.7
33	E1	145	HIS	2.7
11	s9	65	LYS	2.7
14	c2	124	LYS	2.7
33	e1	96	LYS	2.7
1	2	820	U	2.7
1	2	1689	A	2.7
1	2	1712	A	2.7
1	6	679	U	2.7
2	S0	143	VAL	2.7
4	s2	89	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
10	S8	81	VAL	2.7
13	c1	139	VAL	2.7
34	sR	206	PRO	2.7
34	SR	73	LEU	2.7
1	6	490	C	2.7
19	c7	89	SER	2.7
31	D9	9	SER	2.7
36	5	1759	C	2.7
61	n5	32	PHE	2.7
77	Q1	10	THR	2.7
39	l2	213	GLY	2.7
51	m5	58	GLY	2.7
36	1	1262	G	2.7
36	1	2442	G	2.7
42	L5	213	ASP	2.7
63	n7	65	ARG	2.7
4	S2	209	ASN	2.7
16	C4	20	TYR	2.7
21	C9	80	TYR	2.7
25	D3	123	LYS	2.7
33	e1	89	LYS	2.7
39	l2	194	ASN	2.7
41	l4	321	LYS	2.7
45	l8	63	LYS	2.7
54	m8	145	ASN	2.7
63	n7	55	LYS	2.7
3	S1	160	HIS	2.7
4	s2	94	GLN	2.7
14	c2	31	VAL	2.7
16	C4	30	VAL	2.7
6	s4	261	LEU	2.7
20	C8	101	LEU	2.7
31	d9	11	PRO	2.7
48	m1	8	PRO	2.7
60	n4	81	PRO	2.7
66	o0	56	LEU	2.7
14	c2	135	MET	2.7
36	5	3319	U	2.7
58	N2	28	PHE	2.7
45	l8	118	GLU	2.7
1	6	793	A	2.7
22	D0	66	SER	2.7

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Mol	Chain	Res	Type	RSRZ
23	d1	77	GLY	2.7
36	5	2971	A	2.7
73	O7	87	SER	2.7
34	SR	117	LYS	2.7
53	M7	164	LYS	2.7
1	2	131	C	2.7
1	2	658	C	2.7
1	6	1706	C	2.7
16	C4	124	ASP	2.7
36	1	439	C	2.7
36	1	1272	C	2.7
36	1	2548	C	2.7
36	5	3164	C	2.7
37	3	73	C	2.7
60	N4	88	ASP	2.7
31	d9	34	TYR	2.7
2	S0	40	ALA	2.7
11	S9	38	ASN	2.7
19	c7	88	VAL	2.7
34	SR	33	LEU	2.7
62	N6	111	LEU	2.7
1	2	1201	G	2.7
22	D0	71	PRO	2.7
27	d5	37	GLN	2.7
36	1	1229	G	2.7
36	1	3289	G	2.7
9	s7	49	ILE	2.7
10	s8	109	PHE	2.7
64	N8	82	ILE	2.7
51	m5	152	CYS	2.7
5	S3	135	GLU	2.7
6	S4	4	GLY	2.7
16	c4	131	GLY	2.7
35	SM	89	ARG	2.7
42	L5	161	GLY	2.7
19	c7	107	SER	2.7
1	2	73	U	2.7
1	6	74	U	2.7
1	6	178	U	2.7
1	6	675	U	2.7
2	s0	195	TRP	2.7
25	D3	5	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
34	sR	161	LYS	2.7
35	sM	83	LYS	2.7
36	5	1351	U	2.7
1	6	506	A	2.7
1	6	1701	A	2.7
36	5	440	A	2.7
2	s0	61	ALA	2.7
14	c2	101	ALA	2.7
21	c9	55	TYR	2.7
34	SR	78	ALA	2.7
39	l2	222	ALA	2.7
2	s0	201	LEU	2.7
3	S1	54	LEU	2.7
16	C4	48	VAL	2.7
19	c7	9	VAL	2.7
27	D5	65	LEU	2.7
33	E1	150	VAL	2.7
34	sR	157	VAL	2.7
1	6	674	C	2.7
1	6	1700	C	2.7
31	d9	38	ILE	2.7
48	M1	131	MET	2.7
11	s9	171	ARG	2.7
14	c2	43	ARG	2.7
14	c2	46	ARG	2.7
21	C9	86	ARG	2.7
35	SM	68	ARG	2.7
18	c6	72	GLY	2.7
30	D8	45	LYS	2.7
39	l2	143	GLU	2.7
71	o5	102	GLU	2.7
3	S1	201	THR	2.7
51	m5	196	THR	2.7
58	N2	100	THR	2.7
1	6	1474	G	2.7
14	c2	100	TRP	2.7
36	1	76	G	2.7
36	1	1230	G	2.7
36	5	1812	G	2.7
1	2	1688	U	2.7
1	6	1710	U	2.7
4	s2	165	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
14	c2	91	VAL	2.7
14	c2	133	LEU	2.7
20	c8	3	LEU	2.7
32	E0	50	VAL	2.7
34	sR	154	VAL	2.7
38	4	81	U	2.7
38	8	82	U	2.7
40	L3	387	LEU	2.7
47	M0	200	LEU	2.7
66	O0	51	LEU	2.7
2	S0	32	HIS	2.7
2	s0	206	ASP	2.7
7	s5	145	ASP	2.7
60	N4	59	HIS	2.7
45	l8	240	ASN	2.7
1	2	887	A	2.6
14	c2	106	ILE	2.6
32	E0	60	PRO	2.6
2	s0	7	PHE	2.6
2	s0	203	PHE	2.6
10	S8	92	ARG	2.6
18	C6	109	PHE	2.6
36	5	2439	A	2.6
39	l2	190	ARG	2.6
57	N1	19	PHE	2.6
63	n7	4	PHE	2.6
63	n7	17	ARG	2.6
49	M3	131	LYS	2.6
1	2	1355	C	2.6
1	6	136	C	2.6
2	s0	147	THR	2.6
18	C6	115	THR	2.6
2	s0	174	TRP	2.6
2	S0	31	VAL	2.6
5	s3	86	LEU	2.6
7	S5	97	LEU	2.6
7	s5	183	ALA	2.6
14	C2	115	VAL	2.6
21	C9	5	SER	2.6
34	sR	205	SER	2.6
66	O0	95	ALA	2.6
2	s0	46	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	2	175	G	2.6
1	2	540	G	2.6
1	6	1051	G	2.6
36	1	1264	G	2.6
36	1	1576	G	2.6
1	2	137	U	2.6
2	s0	49	ASN	2.6
3	S1	85	LYS	2.6
11	S9	142	ASN	2.6
34	SR	308	ASN	2.6
36	1	1572	U	2.6
36	1	3374	U	2.6
41	l4	320	ASN	2.6
76	Q0	119	ASN	2.6
1	2	135	A	2.6
1	2	1694	A	2.6
5	s3	128	GLU	2.6
54	m8	95	GLU	2.6
69	o3	3	GLU	2.6
19	C7	8	THR	2.6
3	S1	120	LEU	2.6
3	S1	225	VAL	2.6
5	s3	145	ALA	2.6
9	s7	77	LEU	2.6
10	S8	147	ALA	2.6
16	C4	33	LEU	2.6
16	C4	81	VAL	2.6
19	c7	16	LEU	2.6
20	C8	66	LEU	2.6
41	L4	106	TRP	2.6
34	SR	6	VAL	2.6
42	L5	131	LEU	2.6
62	n6	18	ALA	2.6
63	n7	53	VAL	2.6
68	O2	2	ALA	2.6
1	2	239	C	2.6
16	C4	125	SER	2.6
20	C8	43	SER	2.6
48	m1	41	SER	2.6
4	s2	59	HIS	2.6
6	s4	54	TYR	2.6
7	S5	41	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
13	c1	70	ILE	2.6
15	c3	5	HIS	2.6
23	D1	53	TYR	2.6
39	l2	15	ILE	2.6
25	D3	107	PHE	2.6
81	p0	197	PHE	2.6
19	c7	42	GLN	2.6
35	SM	16	ASP	2.6
1	2	681	U	2.6
36	1	3156	U	2.6
1	2	488	G	2.6
1	6	1464	G	2.6
1	6	1601	G	2.6
3	s1	52	THR	2.6
3	s1	54	LEU	2.6
14	c2	32	LEU	2.6
34	SR	23	LEU	2.6
48	M1	12	LEU	2.6
11	s9	159	ALA	2.6
12	c0	22	VAL	2.6
20	C8	83	ALA	2.6
51	M5	165	THR	2.6
58	n2	14	THR	2.6
60	n4	111	ALA	2.6
64	n8	149	ALA	2.6
46	L9	165	CYS	2.6
1	2	538	A	2.6
1	6	254	A	2.6
9	S7	115	SER	2.6
9	s7	125	ILE	2.6
10	S8	17	LYS	2.6
24	D2	82	LYS	2.6
35	SM	84	LYS	2.6
36	1	1244	A	2.6
36	5	1093	A	2.6
39	l2	251	LYS	2.6
63	n7	61	LYS	2.6
67	o1	31	ARG	2.6
16	C4	11	SER	2.6
72	o6	27	SER	2.6
9	S7	4	PRO	2.6
11	s9	67	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
19	c7	28	PHE	2.6
47	M0	217	PHE	2.6
58	N2	95	PHE	2.6
60	N4	81	PRO	2.6
1	2	696	C	2.6
1	6	321	C	2.6
36	1	1201	C	2.6
36	1	1574	C	2.6
19	c7	101	ASN	2.6
4	s2	61	LEU	2.6
24	D2	18	GLU	2.6
26	d4	125	LEU	2.6
30	D8	16	LEU	2.6
58	n2	79	LEU	2.6
2	S0	158	VAL	2.6
13	c1	114	ALA	2.6
13	c1	146	ALA	2.6
21	C9	114	VAL	2.6
34	SR	94	VAL	2.6
1	2	1362	U	2.6
16	C4	77	THR	2.6
45	l8	125	ALA	2.6
52	M6	169	ALA	2.6
36	5	1815	U	2.6
52	m6	184	THR	2.6
60	n4	68	ALA	2.6
63	n7	2	ALA	2.6
6	S4	22	LYS	2.6
8	S6	171	LYS	2.6
10	s8	200	LYS	2.6
17	c5	8	LYS	2.6
22	d0	64	LYS	2.6
33	E1	92	LYS	2.6
7	S5	211	ILE	2.6
8	S6	52	ILE	2.6
8	S6	226	ILE	2.6
46	L9	164	ILE	2.6
1	6	1050	G	2.6
2	s0	199	PRO	2.6
14	c2	119	SER	2.6
15	C3	12	SER	2.6
28	D6	17	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
36	1	1565	G	2.6
36	5	251	G	2.6
36	5	1024	G	2.6
48	m1	102	PHE	2.6
63	n7	57	HIS	2.6
1	6	1344	A	2.6
34	SR	69	GLN	2.6
73	o7	79	GLN	2.6
7	S5	75	GLY	2.6
19	c7	2	GLY	2.6
7	S5	104	ASN	2.6
14	C2	111	ASN	2.6
22	d0	92	ASP	2.6
55	m9	27	ASN	2.6
81	p0	203	ASP	2.6
18	C6	117	LEU	2.6
34	sR	252	LEU	2.6
55	m9	4	LEU	2.6
60	n4	109	LEU	2.6
1	2	937	C	2.6
66	o0	55	GLU	2.6
5	s3	175	VAL	2.6
3	S1	151	LYS	2.6
6	s4	2	ALA	2.6
6	s4	59	ARG	2.6
6	s4	208	VAL	2.6
7	S5	70	VAL	2.6
10	S8	200	LYS	2.6
14	c2	128	ALA	2.6
21	c9	37	VAL	2.6
45	l8	113	ALA	2.6
51	M5	135	VAL	2.6
81	p0	210	VAL	2.6
27	d5	97	LYS	2.6
4	s2	96	THR	2.6
19	c7	106	THR	2.6
15	C3	66	ILE	2.5
26	d4	13	ILE	2.5
34	SR	310	ILE	2.5
35	SM	25	ILE	2.5
9	s7	24	PHE	2.5
19	C7	71	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
7	S5	209	TYR	2.5
12	c0	64	TYR	2.5
34	sR	64	HIS	2.5
48	M1	167	TYR	2.5
4	S2	85	PRO	2.5
34	SR	3	SER	2.5
26	D4	120	GLY	2.5
7	S5	93	LEU	2.5
11	S9	128	LEU	2.5
14	c2	103	LEU	2.5
34	sR	32	LEU	2.5
55	M9	4	LEU	2.5
1	2	1713	G	2.5
1	6	1265	G	2.5
2	s0	191	ARG	2.5
20	C8	40	ARG	2.5
2	s0	180	GLU	2.5
4	s2	84	LYS	2.5
22	D0	94	GLU	2.5
36	1	1029	G	2.5
36	5	1434	G	2.5
36	5	1560	G	2.5
36	5	3288	G	2.5
48	M1	11	ASP	2.5
60	n4	115	LYS	2.5
61	n5	33	ARG	2.5
63	n7	64	LYS	2.5
65	n9	6	ASN	2.5
17	c5	7	ALA	2.5
34	sR	303	ALA	2.5
36	1	3163	A	2.5
60	N4	85	ALA	2.5
63	n7	59	ALA	2.5
2	s0	22	THR	2.5
14	c2	49	THR	2.5
22	D0	27	THR	2.5
24	d2	83	ILE	2.5
1	2	136	C	2.5
36	5	1951	C	2.5
7	s5	164	PRO	2.5
9	s7	63	PRO	2.5
15	C3	23	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
16	C4	57	PRO	2.5
17	C5	79	HIS	2.5
18	c6	41	PRO	2.5
54	m8	15	HIS	2.5
3	S1	146	GLN	2.5
5	s3	176	LEU	2.5
29	D7	51	GLN	2.5
30	D8	46	GLY	2.5
45	l8	126	SER	2.5
36	1	2506	U	2.5
36	5	3155	U	2.5
67	O1	4	LEU	2.5
6	s4	6	LYS	2.5
33	e1	97	LYS	2.5
33	e1	143	LYS	2.5
41	l4	104	LYS	2.5
45	l8	215	VAL	2.5
48	M1	71	VAL	2.5
63	n7	75	VAL	2.5
3	S1	95	ASN	2.5
5	S3	149	ALA	2.5
21	c9	17	ALA	2.5
34	SR	80	ALA	2.5
42	L5	189	GLU	2.5
44	l7	28	ALA	2.5
60	n4	50	ALA	2.5
72	O6	59	ASP	2.5
2	s0	98	ILE	2.5
8	S6	158	ILE	2.5
13	c1	47	THR	2.5
31	D9	7	TRP	2.5
34	sR	317	THR	2.5
51	M5	191	TRP	2.5
2	S0	7	PHE	2.5
5	s3	25	PHE	2.5
1	6	145	A	2.5
1	6	1236	A	2.5
36	1	2535	A	2.5
1	6	487	G	2.5
36	1	547	G	2.5
36	5	2440	G	2.5
25	d3	18	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
2	s0	16	LEU	2.5
4	S2	187	LEU	2.5
9	S7	34	LEU	2.5
1	2	176	C	2.5
1	2	237	C	2.5
10	S8	37	LYS	2.5
12	c0	76	LEU	2.5
18	C6	13	LYS	2.5
42	l5	293	LEU	2.5
55	M9	181	ARG	2.5
61	N5	82	LEU	2.5
27	d5	73	GLY	2.5
36	1	765	C	2.5
36	5	1578	C	2.5
5	s3	160	SER	2.5
9	S7	42	GLN	2.5
34	sR	44	SER	2.5
50	M4	5	SER	2.5
68	o2	52	GLN	2.5
81	p0	34	SER	2.5
16	C4	74	VAL	2.5
16	c4	28	VAL	2.5
21	C9	71	VAL	2.5
3	S1	147	ALA	2.5
7	S5	74	ALA	2.5
13	c1	147	ALA	2.5
34	sR	2	ALA	2.5
1	2	241	U	2.5
1	6	1535	U	2.5
4	S2	55	GLU	2.5
36	1	3319	U	2.5
15	C3	108	ASP	2.5
18	C6	36	ILE	2.5
20	C8	35	ILE	2.5
25	D3	27	ASN	2.5
28	D6	11	ASN	2.5
67	o1	6	ASP	2.5
74	o8	8	ILE	2.5
18	c6	17	THR	2.5
42	L5	56	THR	2.5
34	sR	247	PRO	2.5
64	N8	50	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
81	p0	78	PRO	2.5
9	S7	126	LEU	2.5
12	C0	40	LEU	2.5
18	C6	135	ARG	2.5
18	c6	89	LEU	2.5
28	D6	4	LYS	2.5
32	E0	39	LEU	2.5
40	l3	178	LEU	2.5
1	6	1346	A	2.5
36	1	1093	A	2.5
9	s7	90	VAL	2.5
70	o4	33	GLN	2.5
1	2	235	G	2.5
1	2	503	G	2.5
1	2	875	G	2.5
10	s8	19	ALA	2.5
17	C5	54	ALA	2.5
21	C9	58	ALA	2.5
26	d4	134	ALA	2.5
31	d9	9	SER	2.5
36	5	236	G	2.5
36	5	243	G	2.5
52	M6	83	ALA	2.5
6	S4	147	ILE	2.5
6	S4	248	ILE	2.5
11	s9	64	GLU	2.5
13	C1	54	ILE	2.5
38	8	83	C	2.5
58	n2	44	GLU	2.5
28	D6	33	ASP	2.5
34	SR	186	PHE	2.5
68	o2	23	ASP	2.5
1	6	836	U	2.5
36	1	252	U	2.5
58	n2	98	THR	2.5
70	O4	56	THR	2.5
12	C0	5	LYS	2.5
23	d1	5	LYS	2.5
25	D3	114	LYS	2.5
6	s4	9	LEU	2.5
33	e1	138	ARG	2.5
35	SM	22	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
68	o2	128	LEU	2.5
12	C0	64	TYR	2.5
42	l5	272	TYR	2.5
68	o2	26	HIS	2.5
58	N2	45	GLY	2.5
22	d0	118	VAL	2.5
15	c3	15	ALA	2.4
42	L5	291	ALA	2.4
47	m0	219	ALA	2.4
60	N4	78	ALA	2.4
14	C2	71	ILE	2.4
18	C6	121	SER	2.4
18	c6	81	ILE	2.4
20	C8	47	CYS	2.4
51	M5	142	ILE	2.4
81	p0	199	SER	2.4
1	2	1693	A	2.4
23	d1	42	GLU	2.4
36	5	1025	A	2.4
36	5	1091	A	2.4
42	l5	263	GLU	2.4
2	s0	101	ARG	2.4
3	S1	31	ASP	2.4
8	S6	4	ASN	2.4
22	D0	121	ASN	2.4
25	D3	89	ASN	2.4
47	M0	209	ASN	2.4
60	n4	35	LYS	2.4
71	o5	25	LYS	2.4
1	2	230	C	2.4
1	2	361	C	2.4
1	2	697	C	2.4
1	2	723	G	2.4
1	2	724	C	2.4
1	2	837	G	2.4
1	6	1201	G	2.4
1	6	1399	C	2.4
1	6	1695	G	2.4
14	c2	74	LEU	2.4
36	1	1562	C	2.4
36	1	1670	C	2.4
36	1	2566	C	2.4

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Mol	Chain	Res	Type	RSRZ
36	5	439	C	2.4
2	s0	142	PRO	2.4
22	D0	55	PRO	2.4
1	2	75	U	2.4
1	2	240	U	2.4
1	6	242	U	2.4
2	s0	36	TYR	2.4
36	1	1241	U	2.4
3	s1	53	GLY	2.4
14	c2	98	GLY	2.4
16	C4	42	VAL	2.4
33	e1	84	VAL	2.4
34	sR	104	VAL	2.4
55	M9	177	VAL	2.4
4	s2	199	GLN	2.4
35	sM	60	ALA	2.4
51	m5	146	ALA	2.4
53	m7	156	ALA	2.4
3	S1	32	ILE	2.4
18	C6	29	ILE	2.4
10	s8	170	SER	2.4
70	o4	110	GLU	2.4
13	c1	29	LYS	2.4
22	D0	21	LYS	2.4
41	l4	315	LYS	2.4
42	L5	185	PHE	2.4
14	c2	33	ARG	2.4
19	C7	5	ARG	2.4
43	l6	128	LYS	2.4
13	c1	5	LEU	2.4
22	D0	93	LEU	2.4
24	D2	104	LEU	2.4
48	m1	19	LEU	2.4
1	6	579	A	2.4
1	6	684	A	2.4
7	s5	94	THR	2.4
19	c7	27	ASP	2.4
19	c7	54	THR	2.4
36	5	3347	A	2.4
40	L3	104	THR	2.4
74	O8	28	ASN	2.4
36	1	1027	A	2.4

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Mol	Chain	Res	Type	RSRZ
36	1	2100	A	2.4
10	s8	122	GLY	2.4
11	S9	172	VAL	2.4
11	s9	95	TYR	2.4
23	d1	29	HIS	2.4
26	d4	25	VAL	2.4
27	D5	62	VAL	2.4
28	d6	18	VAL	2.4
45	l8	180	VAL	2.4
70	O4	53	GLY	2.4
1	2	1618	C	2.4
1	6	1207	C	2.4
26	D4	4	ALA	2.4
30	D8	53	ILE	2.4
36	1	1556	C	2.4
64	N8	149	ALA	2.4
1	2	908	U	2.4
1	2	1354	G	2.4
1	6	320	U	2.4
1	6	1330	G	2.4
36	1	1953	G	2.4
36	5	184	U	2.4
36	5	3158	G	2.4
60	n4	134	GLN	2.4
74	O8	27	ILE	2.4
12	c0	44	LYS	2.4
14	C2	105	LYS	2.4
14	c2	95	LYS	2.4
2	s0	38	PHE	2.4
2	s0	62	ARG	2.4
18	C6	114	ARG	2.4
22	D0	77	LYS	2.4
42	l5	27	LYS	2.4
55	M9	52	LYS	2.4
72	O6	68	ARG	2.4
5	s3	182	LEU	2.4
18	c6	52	LEU	2.4
25	D3	33	LEU	2.4
42	l5	62	CYS	2.4
58	n2	76	LEU	2.4
4	s2	236	PRO	2.4
5	s3	172	THR	2.4

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Mol	Chain	Res	Type	RSRZ
7	S5	94	THR	2.4
17	C5	125	PRO	2.4
18	C6	17	THR	2.4
19	c7	31	ASN	2.4
20	C8	138	THR	2.4
22	d0	55	PRO	2.4
34	SR	4	ASN	2.4
34	sR	25	THR	2.4
60	n4	51	TRP	2.4
61	n5	37	THR	2.4
3	S1	68	VAL	2.4
3	s1	225	VAL	2.4
19	c7	85	VAL	2.4
28	d6	45	VAL	2.4
30	D8	7	VAL	2.4
45	l8	227	ASP	2.4
57	n1	126	VAL	2.4
63	n7	12	VAL	2.4
5	S3	87	TYR	2.4
11	S9	8	TYR	2.4
25	d3	2	GLY	2.4
33	E1	129	GLY	2.4
81	p0	212	HIS	2.4
13	c1	145	ALA	2.4
14	c2	92	ALA	2.4
1	2	1227	A	2.4
1	6	829	A	2.4
18	c6	118	ILE	2.4
19	c7	15	ALA	2.4
21	C9	11	ALA	2.4
27	d5	71	ILE	2.4
33	e1	110	ALA	2.4
73	o7	83	ALA	2.4
24	D2	60	LYS	2.4
27	d5	46	LYS	2.4
45	l8	192	GLN	2.4
55	M9	170	ARG	2.4
55	m9	186	LYS	2.4
61	n5	36	LYS	2.4
77	Q1	1	MET	2.4
8	S6	156	PHE	2.4
1	2	133	U	2.4

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Mol	Chain	Res	Type	RSRZ
1	2	912	U	2.4
1	2	1361	U	2.4
2	S0	24	LEU	2.4
14	c2	88	LEU	2.4
24	d2	38	LEU	2.4
32	e0	49	LEU	2.4
33	e1	117	LEU	2.4
36	5	3270	U	2.4
36	5	3278	C	2.4
58	n2	105	LEU	2.4
50	m4	2	SER	2.4
1	2	1521	G	2.4
18	C6	51	PRO	2.4
20	c8	84	TRP	2.4
34	SR	68	VAL	2.4
49	m3	133	PRO	2.4
81	p0	186	THR	2.4
8	s6	140	ASN	2.4
12	c0	28	ASN	2.4
2	s0	168	HIS	2.4
7	S5	151	GLY	2.4
26	d4	67	GLY	2.4
45	l8	252	ASN	2.4
27	D5	82	HIS	2.4
21	c9	91	TYR	2.4
34	sR	163	ASP	2.4
62	n6	11	ASP	2.4
68	o2	6	HIS	2.4
11	S9	178	ALA	2.4
14	c2	79	ALA	2.4
35	SM	90	ALA	2.4
45	l8	49	TYR	2.4
48	M1	98	ALA	2.4
49	M3	87	ALA	2.4
14	c2	114	LYS	2.4
21	c9	92	LYS	2.4
29	D7	22	LYS	2.4
31	D9	16	LYS	2.4
77	q1	25	LYS	2.4
9	s7	22	GLN	2.4
3	S1	205	PHE	2.4
2	s0	59	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
42	l5	236	LEU	2.4
63	n7	80	LEU	2.4
36	5	1026	A	2.4
56	N0	130	GLU	2.4
15	C3	14	SER	2.4
1	2	232	U	2.4
1	2	278	U	2.4
1	2	719	U	2.4
1	2	830	U	2.4
1	2	1617	U	2.4
1	6	1704	U	2.4
2	s0	156	VAL	2.4
8	S6	135	PRO	2.4
9	s7	186	PRO	2.4
14	c2	82	PRO	2.4
20	c8	4	VAL	2.4
20	c8	22	VAL	2.4
26	D4	30	PRO	2.4
27	d5	40	VAL	2.4
31	D9	23	VAL	2.4
33	E1	147	VAL	2.4
36	1	1247	U	2.4
1	2	495	C	2.3
1	6	491	C	2.3
4	s2	166	THR	2.3
18	C6	70	THR	2.3
19	C7	6	THR	2.3
36	1	247	C	2.3
36	5	174	C	2.3
21	C9	82	GLY	2.3
27	d5	87	GLY	2.3
2	s0	27	ARG	2.3
10	S8	148	ALA	2.3
10	S8	150	ALA	2.3
13	C1	46	LYS	2.3
15	c3	9	LYS	2.3
15	c3	69	ASN	2.3
16	C4	76	ILE	2.3
18	C6	20	ALA	2.3
20	C8	122	HIS	2.3
23	D1	35	ASN	2.3
45	L8	160	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
49	m3	195	ALA	2.3
59	N3	4	ASN	2.3
2	s0	43	ASP	2.3
4	s2	97	ARG	2.3
60	n4	82	ILE	2.3
68	o2	2	ALA	2.3
70	o4	2	ALA	2.3
11	s9	66	ASP	2.3
5	s3	150	MET	2.3
1	2	954	G	2.3
1	2	1200	G	2.3
1	2	1297	G	2.3
36	5	3289	G	2.3
8	S6	176	GLN	2.3
11	s9	146	PHE	2.3
12	C0	27	PHE	2.3
29	D7	33	LEU	2.3
34	SR	292	LEU	2.3
48	M1	127	PHE	2.3
8	s6	166	GLU	2.3
60	n4	119	GLU	2.3
2	s0	37	VAL	2.3
14	c2	22	VAL	2.3
21	C9	6	VAL	2.3
49	m3	97	VAL	2.3
3	S1	35	PRO	2.3
19	C7	96	SER	2.3
19	c7	13	SER	2.3
22	D0	76	SER	2.3
22	d0	71	PRO	2.3
33	e1	104	SER	2.3
4	S2	84	LYS	2.3
6	s4	22	LYS	2.3
9	S7	101	LYS	2.3
34	SR	45	TRP	2.3
2	S0	141	ILE	2.3
9	s7	14	THR	2.3
18	C6	72	GLY	2.3
32	E0	48	THR	2.3
35	SM	103	LYS	2.3
39	l2	68	LYS	2.3
48	M1	79	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
48	M1	159	THR	2.3
64	n8	114	GLY	2.3
2	s0	159	ALA	2.3
3	S1	161	ILE	2.3
71	o5	105	ARG	2.3
11	s9	167	ALA	2.3
20	C8	58	ALA	2.3
55	m9	183	ALA	2.3
1	2	705	U	2.3
1	2	1269	U	2.3
1	2	1310	U	2.3
1	2	1595	U	2.3
1	2	1710	U	2.3
1	6	680	U	2.3
1	6	1340	U	2.3
17	C5	123	TYR	2.3
36	5	441	U	2.3
36	5	3287	U	2.3
38	4	158	U	2.3
1	6	696	C	2.3
1	6	1703	C	2.3
1	6	1709	C	2.3
16	C4	66	ASP	2.3
2	s0	107	PHE	2.3
6	S4	261	LEU	2.3
36	5	233	C	2.3
8	s6	65	GLN	2.3
10	s8	103	GLN	2.3
11	S9	104	PHE	2.3
14	c2	140	PHE	2.3
48	M1	17	LEU	2.3
27	D5	98	GLN	2.3
47	M0	113	GLN	2.3
70	O4	7	PHE	2.3
8	S6	222	GLU	2.3
14	c2	56	GLU	2.3
14	c2	76	GLU	2.3
1	2	486	G	2.3
1	2	729	G	2.3
1	2	1288	G	2.3
1	2	1690	G	2.3
14	c2	61	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
26	D4	129	VAL	2.3
36	1	1233	G	2.3
36	1	1751	G	2.3
13	c1	24	LYS	2.3
33	e1	94	LYS	2.3
45	l8	122	LYS	2.3
60	N4	70	LYS	2.3
71	o5	107	LYS	2.3
17	C5	75	PRO	2.3
2	s0	77	SER	2.3
7	S5	89	ILE	2.3
16	c4	97	GLY	2.3
2	s0	124	THR	2.3
4	S2	96	THR	2.3
7	S5	207	THR	2.3
16	c4	123	SER	2.3
19	C7	52	GLY	2.3
21	C9	117	SER	2.3
26	d4	2	SER	2.3
26	d4	71	GLY	2.3
72	o6	31	GLY	2.3
8	s6	168	THR	2.3
14	c2	53	THR	2.3
17	C5	39	ALA	2.3
27	D5	36	ALA	2.3
34	sR	214	ALA	2.3
41	l4	200	THR	2.3
60	n4	64	THR	2.3
75	O9	2	ALA	2.3
12	C0	1	MET	2.3
20	C8	73	MET	2.3
32	e0	56	MET	2.3
21	C9	18	TYR	2.3
33	e1	144	CYS	2.3
52	M6	135	TYR	2.3
63	n7	18	TYR	2.3
2	S0	18	LEU	2.3
3	S1	217	LEU	2.3
6	S4	101	LEU	2.3
10	S8	96	LEU	2.3
29	d7	24	LEU	2.3
34	sR	144	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	2	1391	A	2.3
1	6	1469	A	2.3
26	D4	119	PHE	2.3
36	5	1816	A	2.3
1	2	192	U	2.3
36	1	1567	U	2.3
36	1	2505	U	2.3
36	5	1570	U	2.3
36	5	2537	U	2.3
45	l8	112	GLU	2.3
60	n4	66	GLU	2.3
1	2	321	C	2.3
3	S1	88	VAL	2.3
5	S3	41	VAL	2.3
9	S7	73	VAL	2.3
10	S8	82	VAL	2.3
19	c7	81	LYS	2.3
22	d0	100	VAL	2.3
26	D4	24	VAL	2.3
36	5	1644	C	2.3
48	m1	18	VAL	2.3
81	p0	105	VAL	2.3
53	M7	181	ARG	2.3
13	c1	54	ILE	2.3
35	sM	44	PRO	2.3
32	e0	32	GLY	2.3
40	L3	245	GLY	2.3
18	C6	119	ALA	2.3
20	c8	58	ALA	2.3
34	SR	180	ALA	2.3
67	o1	40	ALA	2.3
72	o6	32	ALA	2.3
14	c2	64	SER	2.3
22	d0	81	THR	2.3
33	e1	87	THR	2.3
48	M1	147	THR	2.3
14	c2	36	LEU	2.3
19	c7	109	LEU	2.3
20	c8	32	LEU	2.3
22	d0	58	LEU	2.3
39	l2	19	HIS	2.3
46	L9	161	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
55	m9	185	LEU	2.3
1	6	823	G	2.3
3	S1	155	TYR	2.3
36	5	234	G	2.3
36	5	443	G	2.3
36	5	1952	G	2.3
51	M5	148	TYR	2.3
26	D4	34	ASN	2.3
12	c0	47	GLN	2.3
42	L5	151	GLN	2.3
12	c0	5	LYS	2.3
13	c1	43	LYS	2.3
22	d0	69	LYS	2.3
1	2	793	A	2.3
1	2	992	A	2.3
1	2	1592	A	2.3
1	6	1516	A	2.3
2	s0	45	VAL	2.3
2	s0	58	VAL	2.3
3	S1	192	VAL	2.3
11	S9	64	GLU	2.3
18	c6	68	ARG	2.3
30	D8	55	VAL	2.3
34	sR	160	GLU	2.3
36	1	1273	A	2.3
74	o8	3	ARG	2.3
1	6	132	U	2.3
36	1	1015	U	2.3
36	5	316	U	2.3
36	5	2873	U	2.3
36	5	3282	U	2.3
3	s1	204	ILE	2.3
55	M9	50	ILE	2.3
68	o2	9	ILE	2.3
14	c2	102	GLY	2.3
15	c3	10	GLY	2.3
30	D8	17	GLY	2.3
35	SM	9	GLY	2.3
1	2	1207	C	2.3
36	1	1951	C	2.3
36	1	3067	C	2.3
36	5	2098	C	2.3

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Mol	Chain	Res	Type	RSRZ
2	S0	23	HIS	2.3
2	s0	112	THR	2.3
16	C4	86	THR	2.3
16	c4	38	THR	2.3
18	C6	53	LEU	2.3
19	C7	46	LEU	2.3
21	c9	76	LEU	2.3
22	D0	104	THR	2.3
63	n7	51	LEU	2.3
60	n4	59	HIS	2.3
63	n7	86	THR	2.3
3	S1	223	PHE	2.3
26	D4	2	SER	2.3
46	L9	45	PHE	2.3
60	N4	34	SER	2.3
23	d1	12	TYR	2.3
2	s0	39	ASN	2.3
16	C4	92	LYS	2.3
20	c8	90	ASN	2.3
2	S0	113	ARG	2.3
6	S4	145	ARG	2.3
9	S7	108	GLN	2.3
10	s8	20	GLN	2.3
11	S9	171	ARG	2.3
12	C0	62	GLN	2.3
12	c0	13	GLN	2.3
24	d2	119	LYS	2.3
39	L2	251	LYS	2.3
51	M5	138	GLN	2.3
51	M5	140	LYS	2.3
60	n4	129	LYS	2.3
19	c7	60	ARG	2.3
3	s1	31	ASP	2.3
10	S8	156	VAL	2.3
39	L2	61	VAL	2.3
45	L8	132	VAL	2.3
52	M6	3	VAL	2.3
81	p0	217	VAL	2.3
1	2	730	G	2.2
1	2	1330	G	2.2
36	5	1021	G	2.2
5	s3	217	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
15	C3	92	ILE	2.2
22	d0	99	ILE	2.2
33	E1	91	ILE	2.2
63	N7	46	ILE	2.2
76	Q0	78	ILE	2.2
15	C3	144	ALA	2.2
15	c3	7	ALA	2.2
17	c5	132	GLY	2.2
27	D5	99	ALA	2.2
45	l8	196	ALA	2.2
63	n7	44	ALA	2.2
3	S1	231	LEU	2.2
6	s4	56	LEU	2.2
11	s9	70	LEU	2.2
22	d0	34	LEU	2.2
27	D5	51	LEU	2.2
29	D7	73	LEU	2.2
36	1	622	A	2.2
36	1	1950	U	2.2
36	1	3389	U	2.2
36	5	2097	U	2.2
62	n6	109	LEU	2.2
3	S1	153	HIS	2.2
13	c1	27	THR	2.2
29	d7	67	THR	2.2
34	SR	61	PHE	2.2
34	sR	143	THR	2.2
2	S0	138	TYR	2.2
12	C0	44	LYS	2.2
12	c0	41	TYR	2.2
14	c2	105	LYS	2.2
17	C5	51	SER	2.2
17	C5	92	SER	2.2
21	C9	69	LYS	2.2
21	C9	84	LYS	2.2
25	d3	31	LYS	2.2
34	SR	161	LYS	2.2
34	sR	137	LYS	2.2
45	l8	195	SER	2.2
48	M1	85	LYS	2.2
63	N7	55	LYS	2.2
1	2	489	C	2.2

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Mol	Chain	Res	Type	RSRZ
1	2	910	C	2.2
3	S1	64	ARG	2.2
4	S2	97	ARG	2.2
19	C7	60	ARG	2.2
36	1	2444	C	2.2
36	5	1579	C	2.2
77	q1	23	ARG	2.2
9	S7	90	VAL	2.2
9	s7	109	VAL	2.2
10	s8	46	VAL	2.2
11	S9	101	VAL	2.2
14	C2	116	VAL	2.2
24	D2	33	VAL	2.2
34	sR	29	GLN	2.2
39	l2	230	VAL	2.2
51	M5	181	ASN	2.2
58	n2	66	VAL	2.2
16	c4	124	ASP	2.2
4	S2	218	ILE	2.2
5	s3	50	ILE	2.2
10	S8	72	ILE	2.2
4	S2	223	GLY	2.2
5	s3	153	ALA	2.2
7	s5	42	LEU	2.2
11	S9	35	GLY	2.2
14	C2	112	ALA	2.2
34	sR	284	ALA	2.2
35	SM	21	PRO	2.2
17	c5	112	LEU	2.2
49	M3	130	GLY	2.2
53	M7	5	GLY	2.2
81	p0	209	LEU	2.2
1	2	1594	G	2.2
1	6	496	G	2.2
1	6	1255	G	2.2
13	C1	27	THR	2.2
14	C2	130	THR	2.2
22	d0	29	THR	2.2
36	1	244	G	2.2
36	5	171	G	2.2
40	L3	361	THR	2.2
42	L5	93	THR	2.2

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Mol	Chain	Res	Type	RSRZ
43	L6	8	LYS	2.2
60	n4	83	THR	2.2
61	n5	31	THR	2.2
70	O4	71	THR	2.2
1	2	499	U	2.2
1	2	598	U	2.2
33	E1	85	TYR	2.2
36	5	1028	U	2.2
36	5	3283	U	2.2
46	L9	92	TYR	2.2
58	N2	83	TYR	2.2
63	N7	18	TYR	2.2
70	o4	62	TYR	2.2
1	2	733	A	2.2
1	2	1635	A	2.2
1	6	1559	A	2.2
19	C7	107	SER	2.2
23	D1	18	SER	2.2
33	e1	122	SER	2.2
66	o0	6	SER	2.2
2	S0	29	VAL	2.2
5	s3	41	VAL	2.2
49	M3	97	VAL	2.2
72	o6	3	VAL	2.2
47	M0	112	GLN	2.2
63	n7	127	ASN	2.2
2	S0	170	ILE	2.2
7	S5	130	ILE	2.2
15	c3	66	ILE	2.2
27	D5	88	ILE	2.2
29	d7	57	GLU	2.2
42	L5	64	ILE	2.2
8	S6	152	ASP	2.2
3	S1	123	ALA	2.2
7	s5	74	ALA	2.2
12	c0	40	LEU	2.2
45	l8	254	ASP	2.2
48	M1	126	ASP	2.2
17	C5	101	ALA	2.2
25	D3	6	PRO	2.2
25	D3	35	GLY	2.2
35	sM	56	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
51	m5	197	LEU	2.2
65	N9	24	PRO	2.2
8	s6	131	LYS	2.2
34	sR	118	LYS	2.2
8	S6	16	PHE	2.2
26	D4	60	PHE	2.2
33	e1	131	PHE	2.2
63	n7	118	PHE	2.2
18	C6	66	ARG	2.2
28	D6	85	ARG	2.2
76	q0	113	ARG	2.2
45	L8	81	THR	2.2
6	S4	54	TYR	2.2
14	C2	60	VAL	2.2
19	C7	124	VAL	2.2
26	D4	35	VAL	2.2
29	d7	46	VAL	2.2
58	N2	47	VAL	2.2
1	2	134	U	2.2
1	2	1413	U	2.2
1	2	1473	U	2.2
1	6	1059	U	2.2
1	6	1060	U	2.2
24	d2	39	GLN	2.2
31	D9	20	GLN	2.2
36	1	1765	U	2.2
36	1	2538	U	2.2
36	5	1015	U	2.2
56	n0	138	GLN	2.2
5	s3	158	ILE	2.2
27	d5	88	ILE	2.2
58	n2	93	ILE	2.2
70	o4	54	ILE	2.2
72	o6	9	ILE	2.2
1	2	734	A	2.2
1	2	765	G	2.2
1	2	1011	G	2.2
1	2	1218	G	2.2
1	2	1697	G	2.2
1	6	218	A	2.2
1	6	834	G	2.2
1	6	1069	A	2.2

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Mol	Chain	Res	Type	RSRZ
1	6	1081	A	2.2
1	6	1446	A	2.2
2	S0	135	GLU	2.2
10	S8	89	GLU	2.2
16	C4	110	LEU	2.2
17	c5	106	GLU	2.2
18	C6	32	ASN	2.2
36	1	2095	G	2.2
36	1	2110	G	2.2
47	m0	209	ASN	2.2
36	5	3362	A	2.2
40	L3	7	GLU	2.2
58	n2	101	ASN	2.2
12	C0	3	MET	2.2
20	C8	18	LEU	2.2
36	5	1355	A	2.2
58	n2	89	LEU	2.2
68	O2	128	LEU	2.2
69	O3	7	LEU	2.2
6	s4	83	PRO	2.2
7	s5	150	GLY	2.2
15	C3	63	ALA	2.2
20	C8	82	PRO	2.2
34	sR	204	ALA	2.2
35	sM	52	PRO	2.2
48	M1	134	PRO	2.2
60	N4	68	ALA	2.2
65	n9	2	ALA	2.2
78	q2	17	CYS	2.2
81	p0	216	ALA	2.2
16	c4	92	LYS	2.2
17	c5	9	LYS	2.2
74	O8	26	LYS	2.2
19	c7	71	PHE	2.2
21	c9	86	ARG	2.2
26	D4	61	ARG	2.2
26	d4	72	PHE	2.2
53	M7	128	ARG	2.2
1	6	654	C	2.2
36	1	1277	C	2.2
36	5	2583	C	2.2
4	S2	117	THR	2.2

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Mol	Chain	Res	Type	RSRZ
14	C2	49	THR	2.2
21	C9	39	THR	2.2
26	D4	62	THR	2.2
48	m1	109	HIS	2.2
8	S6	67	VAL	2.2
13	c1	107	VAL	2.2
20	C8	70	VAL	2.2
28	D6	84	VAL	2.2
34	SR	154	VAL	2.2
44	L7	26	VAL	2.2
61	N5	26	VAL	2.2
81	p0	50	VAL	2.2
11	s9	129	ILE	2.2
11	s9	162	SER	2.2
12	C0	13	GLN	2.2
16	C4	19	ILE	2.2
20	C8	28	ILE	2.2
20	C8	69	ILE	2.2
21	C9	48	GLN	2.2
28	d6	44	ILE	2.2
30	d8	13	ILE	2.2
34	sR	310	ILE	2.2
45	l8	36	ILE	2.2
70	o4	61	GLN	2.2
18	c6	57	LEU	2.2
21	C9	108	LEU	2.2
33	e1	132	LEU	2.2
49	m3	77	LEU	2.2
3	S1	122	GLU	2.2
8	S6	198	ALA	2.2
14	C2	118	ALA	2.2
2	S0	207	PRO	2.2
3	S1	233	GLY	2.2
11	S9	5	PRO	2.2
14	c2	104	GLY	2.2
14	c2	117	GLY	2.2
19	c7	7	LYS	2.2
29	d7	71	ALA	2.2
34	SR	24	ALA	2.2
24	D2	109	GLY	2.2
26	D4	117	LYS	2.2
36	5	1645	U	2.2

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Mol	Chain	Res	Type	RSRZ
49	m3	61	PRO	2.2
51	m5	184	LYS	2.2
53	M7	183	ALA	2.2
29	D7	69	GLY	2.2
79	q3	6	LYS	2.2
36	5	240	U	2.2
4	S2	91	ARG	2.2
8	S6	196	ARG	2.2
2	S0	155	PHE	2.2
3	S1	89	ASP	2.2
12	c0	7	ASP	2.2
1	6	344	A	2.2
1	6	1694	A	2.2
36	1	440	A	2.2
36	1	3372	A	2.2
36	5	1245	A	2.2
1	2	279	G	2.2
1	2	720	G	2.2
1	2	1051	G	2.2
1	2	1588	G	2.2
1	2	1663	G	2.2
1	6	837	G	2.2
34	sR	92	TRP	2.2
36	1	251	G	2.2
36	1	1021	G	2.2
36	5	1268	G	2.2
8	S6	112	VAL	2.1
12	c0	42	VAL	2.1
14	C2	53	THR	2.1
15	C3	150	VAL	2.1
23	d1	13	VAL	2.1
25	D3	36	THR	2.1
35	SM	19	VAL	2.1
67	O1	23	VAL	2.1
1	6	230	C	2.1
1	6	489	C	2.1
1	6	653	C	2.1
2	s0	144	ILE	2.1
2	s0	197	ILE	2.1
6	s4	64	ILE	2.1
9	S7	98	ILE	2.1
9	s7	98	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
14	C2	24	ILE	2.1
21	C9	94	ILE	2.1
31	D9	38	ILE	2.1
36	1	2773	C	2.1
36	5	1574	C	2.1
42	l5	247	ILE	2.1
66	o0	100	ILE	2.1
5	S3	72	LEU	2.1
6	s4	92	LEU	2.1
9	S7	118	LEU	2.1
9	s7	81	LEU	2.1
15	C3	62	GLN	2.1
27	d5	51	LEU	2.1
34	SR	9	LEU	2.1
34	sR	73	LEU	2.1
67	o1	16	LEU	2.1
3	S1	28	GLU	2.1
7	S5	181	GLU	2.1
7	s5	78	ALA	2.1
9	S7	6	ALA	2.1
10	s8	7	SER	2.1
25	D3	110	LYS	2.1
28	D6	93	LYS	2.1
22	D0	119	ALA	2.1
23	D1	30	ALA	2.1
28	D6	47	ALA	2.1
34	sR	82	SER	2.1
35	SM	45	SER	2.1
44	l7	234	GLU	2.1
53	M7	158	ALA	2.1
64	N8	94	ALA	2.1
66	O0	98	SER	2.1
12	c0	70	GLU	2.1
24	D2	3	ARG	2.1
24	d2	117	ARG	2.1
33	e1	120	GLU	2.1
75	O9	3	ALA	2.1
14	c2	127	GLY	2.1
4	S2	82	ASN	2.1
6	S4	57	ASN	2.1
19	c7	22	PRO	2.1
34	sR	18	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
67	o1	45	GLY	2.1
31	D9	5	ASN	2.1
51	m5	195	ASN	2.1
39	l2	186	PHE	2.1
1	2	680	U	2.1
1	2	909	U	2.1
1	6	501	U	2.1
2	s0	148	ASP	2.1
24	D2	85	ASP	2.1
35	SM	11	ASP	2.1
36	1	1014	U	2.1
36	1	1555	U	2.1
36	1	3079	U	2.1
36	1	3351	U	2.1
36	5	2508	U	2.1
2	S0	121	VAL	2.1
5	S3	206	VAL	2.1
7	s5	133	VAL	2.1
8	S6	179	VAL	2.1
16	c4	48	VAL	2.1
19	c7	4	VAL	2.1
20	c8	55	HIS	2.1
22	D0	56	VAL	2.1
29	D7	19	HIS	2.1
42	l5	56	THR	2.1
1	2	678	A	2.1
18	c6	36	ILE	2.1
28	D6	79	ILE	2.1
30	D8	13	ILE	2.1
33	e1	140	TYR	2.1
34	SR	131	ILE	2.1
36	1	1231	A	2.1
36	1	1879	A	2.1
36	1	2502	A	2.1
36	5	157	A	2.1
36	5	1571	A	2.1
36	5	1575	A	2.1
67	o1	69	TYR	2.1
72	o6	58	ILE	2.1
6	s4	12	LEU	2.1
9	s7	99	LEU	2.1
9	s7	176	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
11	S9	60	LEU	2.1
11	S9	70	LEU	2.1
14	c2	52	LEU	2.1
14	c2	85	LYS	2.1
26	D4	28	LEU	2.1
30	d8	16	LEU	2.1
55	M9	185	LEU	2.1
70	o4	51	LEU	2.1
1	2	846	G	2.1
1	2	938	G	2.1
16	C4	12	GLN	2.1
17	c5	80	MET	2.1
18	c6	123	ARG	2.1
32	E0	42	ARG	2.1
36	1	1281	G	2.1
36	1	2111	G	2.1
36	5	420	G	2.1
36	5	1233	G	2.1
32	e0	2	ALA	2.1
51	m5	39	ALA	2.1
7	S5	152	GLY	2.1
16	C4	34	SER	2.1
18	C6	50	GLU	2.1
23	d1	57	GLY	2.1
29	d7	66	PRO	2.1
31	d9	25	SER	2.1
42	l5	295	GLY	2.1
47	m0	204	GLY	2.1
52	M6	44	SER	2.1
70	o4	17	SER	2.1
79	q3	21	SER	2.1
1	2	1596	C	2.1
1	6	1596	C	2.1
26	d4	23	PHE	2.1
29	D7	32	PHE	2.1
59	n3	4	ASN	2.1
68	o2	31	ASN	2.1
4	s2	86	VAL	2.1
8	s6	179	VAL	2.1
9	s7	51	VAL	2.1
14	C2	37	VAL	2.1
17	c5	94	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
21	C9	131	ASP	2.1
22	D0	118	VAL	2.1
52	m6	126	VAL	2.1
58	n2	92	TRP	2.1
67	O1	48	ASP	2.1
70	O4	84	CYS	2.1
27	D5	38	HIS	2.1
33	e1	135	HIS	2.1
1	2	1307	U	2.1
1	6	1247	U	2.1
5	s3	69	LEU	2.1
9	S7	41	LEU	2.1
10	s8	17	LYS	2.1
17	C5	59	LYS	2.1
19	C7	14	LYS	2.1
20	c8	54	LEU	2.1
22	D0	107	THR	2.1
30	d8	54	LEU	2.1
31	D9	14	TYR	2.1
33	e1	99	LYS	2.1
33	e1	105	TYR	2.1
33	e1	116	LYS	2.1
40	L3	337	THR	2.1
45	l8	200	LEU	2.1
47	m0	200	LEU	2.1
61	N5	24	LEU	2.1
70	o4	71	THR	2.1
74	o8	26	LYS	2.1
16	c4	135	ARG	2.1
17	c5	137	ARG	2.1
19	c7	58	MET	2.1
29	D7	17	ARG	2.1
14	C2	20	ALA	2.1
16	C4	69	ALA	2.1
22	D0	45	ALA	2.1
72	O6	32	ALA	2.1
1	2	1357	A	2.1
2	s0	55	GLU	2.1
5	s3	216	PRO	2.1
8	s6	123	GLY	2.1
8	s6	181	PRO	2.1
14	C2	21	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
14	c2	110	GLY	2.1
18	c6	126	PRO	2.1
28	d6	90	GLU	2.1
32	E0	52	GLY	2.1
34	SR	160	GLU	2.1
36	1	1263	A	2.1
36	1	1270	A	2.1
36	1	2096	A	2.1
36	1	2445	A	2.1
36	5	235	A	2.1
36	5	2099	A	2.1
36	5	2401	A	2.1
36	5	2524	A	2.1
51	m5	69	GLY	2.1
3	S1	24	PHE	2.1
31	d9	26	SER	2.1
34	sR	242	SER	2.1
39	l2	7	ASN	2.1
51	m5	175	ASN	2.1
51	m5	181	ASN	2.1
1	2	871	G	2.1
1	6	540	G	2.1
6	S4	156	VAL	2.1
18	C6	7	VAL	2.1
36	5	1020	G	2.1
36	5	1029	G	2.1
1	2	490	C	2.1
1	2	700	C	2.1
1	2	1082	C	2.1
1	2	1317	C	2.1
1	6	139	C	2.1
1	6	1246	C	2.1
1	6	1705	C	2.1
14	c2	50	LYS	2.1
2	s0	87	LEU	2.1
4	s2	154	LEU	2.1
7	s5	89	ILE	2.1
13	C1	63	LEU	2.1
15	C3	88	LEU	2.1
18	C6	120	ASP	2.1
26	D4	128	LYS	2.1
51	m5	145	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
70	o4	19	LYS	2.1
81	p0	43	LYS	2.1
34	SR	210	LEU	2.1
63	n7	25	ILE	2.1
8	S6	87	ARG	2.1
3	S1	133	TYR	2.1
16	C4	119	THR	2.1
19	c7	5	ARG	2.1
67	O1	62	ARG	2.1
3	s1	103	MET	2.1
15	C3	111	ALA	2.1
65	N9	57	ALA	2.1
1	6	670	U	2.1
36	1	250	U	2.1
36	1	1265	U	2.1
36	1	1569	U	2.1
45	L8	123	GLN	2.1
5	s3	63	GLY	2.1
16	C4	113	GLY	2.1
19	C7	2	GLY	2.1
28	D6	14	GLY	2.1
48	M1	135	GLY	2.1
4	S2	224	PHE	2.1
9	S7	102	PRO	2.1
31	D9	55	PHE	2.1
39	L2	87	PHE	2.1
53	m7	26	PHE	2.1
56	n0	17	GLU	2.1
71	o5	27	GLU	2.1
28	D6	7	SER	2.1
34	SR	44	SER	2.1
60	n4	130	SER	2.1
60	n4	135	SER	2.1
8	S6	157	VAL	2.1
9	S7	20	VAL	2.1
12	c0	20	VAL	2.1
22	d0	114	VAL	2.1
28	d6	86	VAL	2.1
35	SM	106	VAL	2.1
1	2	492	A	2.1
1	2	1691	A	2.1
1	6	511	A	2.1

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Mol	Chain	Res	Type	RSRZ
1	6	1224	A	2.1
3	S1	222	LYS	2.1
9	S7	111	LYS	2.1
12	C0	25	LYS	2.1
35	SM	105	LYS	2.1
36	5	2441	A	2.1
36	5	2580	A	2.1
36	5	3163	A	2.1
3	S1	184	LEU	2.1
3	s1	29	TRP	2.1
8	S6	109	LEU	2.1
8	S6	177	ARG	2.1
19	C7	69	ILE	2.1
22	D0	99	ILE	2.1
27	d5	41	ILE	2.1
29	d7	19	HIS	2.1
31	d9	32	ARG	2.1
34	SR	34	LEU	2.1
34	sR	115	ILE	2.1
5	s3	134	CYS	2.1
7	S5	176	THR	2.1
8	S6	170	THR	2.1
16	C4	61	MET	2.1
10	S8	83	TYR	2.1
48	M1	139	THR	2.1
55	m9	78	TYR	2.1
1	2	1591	C	2.1
1	6	1625	C	2.1
1	2	1073	G	2.1
1	2	1616	G	2.1
1	6	1270	G	2.1
17	c5	74	ALA	2.1
34	sR	80	ALA	2.1
34	sR	254	ALA	2.1
36	5	1563	C	2.1
36	5	1628	C	2.1
36	5	1761	C	2.1
36	1	1246	G	2.1
36	5	264	G	2.1
36	5	1811	G	2.1
50	M4	9	ALA	2.1
51	M5	146	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
3	S1	74	GLN	2.1
3	S1	157	GLN	2.1
9	S7	74	GLN	2.1
20	c8	124	GLY	2.1
22	D0	54	GLY	2.1
42	L5	127	GLY	2.1
42	l5	4	GLN	2.1
9	S7	131	PHE	2.1
9	S7	132	PRO	2.1
16	C4	37	GLU	2.1
26	D4	46	GLU	2.1
33	e1	111	GLU	2.1
49	M3	179	PHE	2.1
49	m3	184	GLU	2.1
56	n0	130	GLU	2.1
71	O5	102	GLU	2.1
1	2	227	U	2.0
1	2	1206	U	2.0
2	S0	45	VAL	2.0
2	S0	50	VAL	2.0
2	s0	123	VAL	2.0
3	S1	91	VAL	2.0
8	S6	153	VAL	2.0
10	S8	199	LYS	2.0
23	D1	32	VAL	2.0
28	D6	21	VAL	2.0
34	SR	20	VAL	2.0
34	SR	290	VAL	2.0
36	5	182	U	2.0
72	o6	25	LYS	2.0
13	c1	2	SER	2.0
45	l8	253	SER	2.0
5	S3	209	ILE	2.0
7	s5	58	LEU	2.0
8	s6	216	LEU	2.0
9	s7	8	ILE	2.0
11	S9	143	ILE	2.0
12	c0	39	ASN	2.0
16	C4	115	ILE	2.0
18	C6	28	LEU	2.0
18	C6	43	ILE	2.0
18	c6	114	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
20	C8	44	ASN	2.0
20	C8	54	LEU	2.0
20	c8	131	LEU	2.0
28	d6	10	ARG	2.0
35	sM	51	ARG	2.0
43	l6	130	ILE	2.0
55	M9	164	LEU	2.0
3	S1	103	MET	2.0
6	S4	16	HIS	2.0
2	s0	200	ASP	2.0
8	S6	172	ALA	2.0
11	S9	12	TYR	2.0
11	S9	119	ALA	2.0
16	C4	58	TYR	2.0
17	C5	74	ALA	2.0
17	c5	135	THR	2.0
18	C6	79	TYR	2.0
26	D4	33	ALA	2.0
45	L8	256	ALA	2.0
53	M7	177	ALA	2.0
60	N4	64	THR	2.0
70	o4	75	ALA	2.0
74	o8	52	TYR	2.0
2	s0	42	PRO	2.0
7	s5	184	PHE	2.0
12	C0	4	PRO	2.0
17	c5	56	PHE	2.0
42	L5	55	PHE	2.0
44	L7	25	GLN	2.0
44	l7	25	GLN	2.0
56	N0	168	PRO	2.0
63	N7	70	PRO	2.0
8	S6	187	LYS	2.0
8	s6	174	LYS	2.0
9	S7	33	GLU	2.0
11	S9	138	LYS	2.0
12	c0	74	GLU	2.0
12	c0	78	GLU	2.0
14	C2	109	GLU	2.0
14	c2	25	GLU	2.0
22	D0	88	LYS	2.0
24	d2	22	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
41	l4	345	GLU	2.0
36	5	185	C	2.0
36	5	2444	C	2.0
43	l6	23	LYS	2.0
54	M8	11	LYS	2.0
2	s0	73	VAL	2.0
2	s0	86	VAL	2.0
5	s3	58	VAL	2.0
7	S5	33	VAL	2.0
12	c0	73	VAL	2.0
18	C6	39	VAL	2.0
63	n7	114	VAL	2.0
67	o1	7	VAL	2.0
1	2	810	G	2.0
1	2	1229	G	2.0
1	2	1696	G	2.0
1	6	204	G	2.0
1	6	486	G	2.0
1	6	689	G	2.0
2	s0	185	ARG	2.0
11	s9	116	LEU	2.0
15	c3	106	ARG	2.0
18	C6	38	LEU	2.0
18	C6	44	LEU	2.0
32	E0	49	LEU	2.0
34	sR	145	LEU	2.0
36	1	1577	G	2.0
36	5	1264	G	2.0
36	5	2573	G	2.0
42	L5	92	LEU	2.0
58	n2	84	LEU	2.0
67	O1	20	LEU	2.0
6	S4	24	SER	2.0
10	S8	149	SER	2.0
11	s9	77	ILE	2.0
19	C7	70	SER	2.0
22	D0	65	ILE	2.0
26	D4	13	ILE	2.0
27	D5	50	ILE	2.0
28	D6	36	ILE	2.0
74	o8	50	SER	2.0
1	2	260	U	2.0

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Mol	Chain	Res	Type	RSRZ
1	2	558	U	2.0
1	2	1059	U	2.0
1	6	241	U	2.0
1	6	681	U	2.0
1	6	1688	U	2.0
17	C5	70	ASN	2.0
36	1	1570	U	2.0
36	1	1815	U	2.0
36	5	1763	U	2.0
3	S1	101	HIS	2.0
21	c9	53	TRP	2.0
28	D6	72	HIS	2.0
33	e1	93	HIS	2.0
41	L4	311	HIS	2.0
2	s0	10	THR	2.0
9	s7	105	THR	2.0
12	c0	45	ALA	2.0
17	c5	134	THR	2.0
19	C7	30	THR	2.0
33	E1	86	THR	2.0
34	SR	306	THR	2.0
34	sR	48	THR	2.0
45	l8	117	ALA	2.0
19	c7	84	TYR	2.0
75	O9	34	THR	2.0
2	S0	206	ASP	2.0
2	s0	13	ASP	2.0
15	C3	87	ASP	2.0
15	C3	110	ASP	2.0
3	S1	30	PHE	2.0
7	S5	101	GLY	2.0
9	S7	61	PHE	2.0
26	D4	67	GLY	2.0
34	SR	298	GLY	2.0
69	O3	61	GLY	2.0
8	s6	194	LYS	2.0
18	C6	124	PRO	2.0
21	c9	69	LYS	2.0
23	d1	80	LYS	2.0
30	D8	6	PRO	2.0
30	d8	47	PRO	2.0
34	SR	57	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
45	l8	245	LYS	2.0
51	M5	192	LYS	2.0
55	m9	153	LYS	2.0
56	n0	158	LYS	2.0
65	n9	28	LYS	2.0
68	o2	5	PRO	2.0
70	O4	33	GLN	2.0
1	2	737	A	2.0
1	2	898	A	2.0
1	2	1088	A	2.0
1	2	1151	A	2.0
1	6	217	A	2.0
1	6	542	A	2.0
2	s0	41	ARG	2.0
4	S2	205	ARG	2.0
12	c0	8	ARG	2.0
13	c1	142	VAL	2.0
21	C9	88	VAL	2.0
34	sR	20	VAL	2.0
36	1	3344	A	2.0
36	5	3165	A	2.0
38	4	80	A	2.0
41	l4	63	GLU	2.0
54	M8	186	VAL	2.0
66	O0	35	ARG	2.0
70	O4	5	VAL	2.0
70	O4	65	VAL	2.0
22	d0	26	LEU	2.0
34	sR	301	LEU	2.0
81	p0	185	LEU	2.0
12	C0	11	ILE	2.0
18	C6	118	ILE	2.0
51	m5	151	ILE	2.0
70	o4	20	ILE	2.0
1	2	1518	C	2.0
1	2	1664	C	2.0
1	6	1248	C	2.0
36	1	1254	C	2.0
36	5	175	C	2.0
36	5	1272	C	2.0
36	5	2548	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(\AA^2)	Q<0.9
84	MG	1	3406	1/1	-0.23	0.63	130,130,130,130	0
84	MG	2	1978	1/1	0.22	0.45	104,104,104,104	0
84	MG	2	1962	1/1	0.24	0.56	110,110,110,110	0
84	MG	5	3678	1/1	0.30	0.18	58,58,58,58	0
84	MG	2	1932	1/1	0.39	0.46	68,68,68,68	0
84	MG	5	3457	1/1	0.40	0.47	100,100,100,100	0
84	MG	M3	201	1/1	0.42	0.36	86,86,86,86	0
84	MG	6	1984	1/1	0.44	0.32	70,70,70,70	0
84	MG	5	3739	1/1	0.45	0.39	88,88,88,88	0
84	MG	2	1941	1/1	0.46	0.32	93,93,93,93	0
84	MG	1	3570	1/1	0.47	0.47	67,67,67,67	0
84	MG	2	1940	1/1	0.48	0.49	72,72,72,72	0
84	MG	5	3693	1/1	0.49	0.44	80,80,80,80	0
84	MG	6	1959	1/1	0.53	0.54	86,86,86,86	0
84	MG	1	3701	1/1	0.53	0.15	40,40,40,40	0
84	MG	1	3705	1/1	0.54	0.46	52,52,52,52	0
84	MG	1	3650	1/1	0.55	0.41	81,81,81,81	0
84	MG	2	1954	1/1	0.55	0.42	90,90,90,90	0
84	MG	2	1949	1/1	0.56	0.33	96,96,96,96	0
84	MG	2	1968	1/1	0.56	0.38	85,85,85,85	0
84	MG	2	1937	1/1	0.56	0.40	79,79,79,79	0
84	MG	2	1956	1/1	0.57	0.41	64,64,64,64	0
84	MG	2	1924	1/1	0.58	0.47	86,86,86,86	0
84	MG	6	1971	1/1	0.59	0.41	90,90,90,90	0
84	MG	2	1925	1/1	0.59	0.57	74,74,74,74	0
84	MG	2	1953	1/1	0.60	0.56	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3697	1/1	0.60	0.23	50,50,50,50	0
84	MG	6	1970	1/1	0.60	0.37	98,98,98,98	0
84	MG	1	3678	1/1	0.61	0.28	65,65,65,65	0
84	MG	6	2002	1/1	0.61	0.47	99,99,99,99	0
84	MG	4	203	1/1	0.61	0.40	68,68,68,68	0
84	MG	5	3608	1/1	0.61	0.56	89,89,89,89	0
84	MG	6	1961	1/1	0.62	0.34	61,61,61,61	0
84	MG	6	1958	1/1	0.63	0.39	47,47,47,47	0
84	MG	1	3414	1/1	0.63	0.45	63,63,63,63	0
84	MG	2	1946	1/1	0.63	0.60	93,93,93,93	0
84	MG	6	1902	1/1	0.63	0.32	57,57,57,57	0
84	MG	6	1912	1/1	0.63	0.32	79,79,79,79	0
84	MG	6	1975	1/1	0.63	0.48	79,79,79,79	0
84	MG	6	1926	1/1	0.63	0.45	46,46,46,46	0
84	MG	5	3641	1/1	0.64	0.42	79,79,79,79	0
84	MG	2	1969	1/1	0.64	0.47	66,66,66,66	0
84	MG	2	1926	1/1	0.64	0.36	74,74,74,74	0
84	MG	2	1915	1/1	0.64	0.40	76,76,76,76	0
84	MG	2	1947	1/1	0.64	0.44	93,93,93,93	0
84	MG	5	3655	1/1	0.66	0.33	64,64,64,64	0
84	MG	5	3458	1/1	0.66	0.30	107,107,107,107	0
84	MG	5	3460	1/1	0.66	0.13	44,44,44,44	0
84	MG	6	1938	1/1	0.66	0.50	99,99,99,99	0
84	MG	1	3416	1/1	0.66	0.26	48,48,48,48	0
84	MG	2	1961	1/1	0.67	0.36	75,75,75,75	0
84	MG	1	3652	1/1	0.67	0.18	57,57,57,57	0
84	MG	1	3459	1/1	0.67	0.30	46,46,46,46	0
84	MG	1	3692	1/1	0.67	0.17	45,45,45,45	0
84	MG	2	1979	1/1	0.67	0.39	72,72,72,72	0
84	MG	2	1928	1/1	0.68	0.35	71,71,71,71	0
84	MG	6	1976	1/1	0.68	0.26	91,91,91,91	0
84	MG	D9	102	1/1	0.68	0.33	86,86,86,86	0
84	MG	6	1933	1/1	0.68	0.28	84,84,84,84	0
84	MG	5	3438	1/1	0.68	0.21	45,45,45,45	0
84	MG	6	1930	1/1	0.69	0.45	59,59,59,59	0
84	MG	6	1962	1/1	0.70	0.27	84,84,84,84	0
84	MG	6	1993	1/1	0.70	0.50	95,95,95,95	0
84	MG	6	1969	1/1	0.70	0.39	65,65,65,65	0
84	MG	6	1927	1/1	0.70	0.41	50,50,50,50	0
84	MG	6	1925	1/1	0.70	0.37	72,72,72,72	0
84	MG	1	3659	1/1	0.70	0.40	47,47,47,47	0
84	MG	6	1937	1/1	0.70	0.42	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	6	2005	1/1	0.71	0.20	61,61,61,61	0
84	MG	2	1974	1/1	0.71	0.21	93,93,93,93	0
84	MG	6	1909	1/1	0.71	0.41	98,98,98,98	0
84	MG	n6	201	1/1	0.71	0.31	65,65,65,65	0
84	MG	S4	301	1/1	0.72	0.18	79,79,79,79	0
84	MG	Q2	502	1/1	0.72	0.15	55,55,55,55	0
84	MG	1	3449	1/1	0.72	0.53	64,64,64,64	0
84	MG	5	3610	1/1	0.72	0.18	37,37,37,37	0
84	MG	6	1904	1/1	0.72	0.32	76,76,76,76	0
84	MG	6	1951	1/1	0.72	0.56	77,77,77,77	0
84	MG	2	1975	1/1	0.72	0.40	76,76,76,76	0
84	MG	1	3518	1/1	0.72	0.41	52,52,52,52	0
84	MG	1	3567	1/1	0.72	0.55	50,50,50,50	0
84	MG	2	1973	1/1	0.72	0.35	64,64,64,64	0
84	MG	2	1920	1/1	0.72	0.43	74,74,74,74	0
84	MG	1	3563	1/1	0.73	0.51	54,54,54,54	0
84	MG	2	1958	1/1	0.73	0.29	96,96,96,96	0
84	MG	1	3569	1/1	0.73	0.42	53,53,53,53	0
84	MG	5	3466	1/1	0.73	0.32	68,68,68,68	0
84	MG	2	1912	1/1	0.73	0.39	74,74,74,74	0
84	MG	1	3541	1/1	0.73	0.38	55,55,55,55	0
84	MG	5	3616	1/1	0.73	0.28	40,40,40,40	0
84	MG	2	1955	1/1	0.74	0.38	68,68,68,68	0
84	MG	2	1939	1/1	0.74	0.23	74,74,74,74	0
84	MG	5	3643	1/1	0.74	0.37	55,55,55,55	0
84	MG	2	1904	1/1	0.74	0.51	77,77,77,77	0
84	MG	5	3674	1/1	0.74	0.27	49,49,49,49	0
84	MG	6	1980	1/1	0.74	0.21	68,68,68,68	0
84	MG	6	1963	1/1	0.74	0.40	76,76,76,76	0
84	MG	6	1956	1/1	0.74	0.50	60,60,60,60	0
84	MG	6	2001	1/1	0.74	0.39	73,73,73,73	0
84	MG	l2	302	1/1	0.74	0.21	42,42,42,42	0
84	MG	l6	201	1/1	0.74	0.29	56,56,56,56	0
84	MG	2	1981	1/1	0.74	0.28	76,76,76,76	0
84	MG	5	3480	1/1	0.75	0.15	36,36,36,36	0
84	MG	5	3533	1/1	0.75	0.47	55,55,55,55	0
84	MG	3	201	1/1	0.75	0.29	71,71,71,71	0
84	MG	2	1964	1/1	0.75	0.33	83,83,83,83	0
84	MG	2	1921	1/1	0.75	0.54	81,81,81,81	0
84	MG	1	3624	1/1	0.75	0.13	44,44,44,44	0
84	MG	1	3450	1/1	0.75	0.27	33,33,33,33	0
84	MG	2	1944	1/1	0.75	0.35	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3657	1/1	0.75	0.20	57,57,57,57	0
84	MG	6	1907	1/1	0.75	0.36	75,75,75,75	0
84	MG	1	3500	1/1	0.75	0.44	44,44,44,44	0
84	MG	d6	102	1/1	0.75	0.23	56,56,56,56	0
84	MG	5	3694	1/1	0.75	0.16	35,35,35,35	0
84	MG	2	1971	1/1	0.75	0.26	77,77,77,77	0
84	MG	2	1909	1/1	0.75	0.35	81,81,81,81	0
84	MG	2	1935	1/1	0.75	0.29	68,68,68,68	0
84	MG	2	1963	1/1	0.75	0.35	78,78,78,78	0
84	MG	1	3709	1/1	0.75	0.43	59,59,59,59	0
84	MG	1	3696	1/1	0.76	0.15	55,55,55,55	0
84	MG	5	3404	1/1	0.76	0.20	33,33,33,33	0
84	MG	2	1916	1/1	0.76	0.37	59,59,59,59	0
84	MG	2	1923	1/1	0.76	0.46	56,56,56,56	0
84	MG	6	1952	1/1	0.76	0.41	54,54,54,54	0
84	MG	6	1994	1/1	0.76	0.19	49,49,49,49	0
84	MG	6	1998	1/1	0.76	0.18	58,58,58,58	0
84	MG	5	3687	1/1	0.76	0.26	31,31,31,31	0
84	MG	2	1910	1/1	0.76	0.50	64,64,64,64	0
84	MG	5	3500	1/1	0.76	0.37	47,47,47,47	0
84	MG	1	3601	1/1	0.76	0.28	65,65,65,65	0
84	MG	5	3595	1/1	0.76	0.20	60,60,60,60	0
84	MG	1	3496	1/1	0.76	0.24	39,39,39,39	0
84	MG	l3	403	1/1	0.76	0.26	38,38,38,38	0
84	MG	6	2160	1/1	0.76	0.25	84,84,84,84	0
84	MG	5	3613	1/1	0.76	0.30	58,58,58,58	0
85	OHX	2	2111	7/7	0.76	0.24	112,112,112,112	0
85	OHX	2	2115	7/7	0.76	0.25	115,115,115,115	0
84	MG	5	3415	1/1	0.77	0.31	29,29,29,29	0
84	MG	5	3417	1/1	0.77	0.32	84,84,84,84	0
84	MG	5	3644	1/1	0.77	0.28	72,72,72,72	0
84	MG	2	1943	1/1	0.77	0.31	71,71,71,71	0
84	MG	1	3684	1/1	0.77	0.17	51,51,51,51	0
84	MG	1	3608	1/1	0.77	0.38	87,87,87,87	0
84	MG	6	1955	1/1	0.77	0.48	67,67,67,67	0
84	MG	1	3472	1/1	0.77	0.35	52,52,52,52	0
84	MG	5	3472	1/1	0.77	0.36	50,50,50,50	0
84	MG	1	3699	1/1	0.77	0.32	55,55,55,55	0
84	MG	1	3629	1/1	0.77	0.24	74,74,74,74	0
84	MG	1	3704	1/1	0.77	0.23	34,34,34,34	0
84	MG	1	3643	1/1	0.77	0.37	63,63,63,63	0
84	MG	1	3527	1/1	0.77	0.34	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3427	1/1	0.77	0.31	48,48,48,48	0
84	MG	1	3589	1/1	0.77	0.17	64,64,64,64	0
84	MG	5	3614	1/1	0.77	0.19	55,55,55,55	0
84	MG	1	3667	1/1	0.77	0.29	62,62,62,62	0
85	OHX	2	2117	7/7	0.77	0.21	128,128,128,128	0
85	OHX	6	2158	7/7	0.77	0.19	140,140,140,140	0
85	OHX	5	4024	7/7	0.77	0.21	116,116,116,116	0
84	MG	6	2159	1/1	0.78	0.38	58,58,58,58	0
84	MG	5	3665	1/1	0.78	0.26	39,39,39,39	0
84	MG	5	3499	1/1	0.78	0.21	36,36,36,36	0
84	MG	1	3487	1/1	0.78	0.30	49,49,49,49	0
84	MG	1	3620	1/1	0.78	0.39	54,54,54,54	0
84	MG	5	3553	1/1	0.78	0.38	38,38,38,38	0
84	MG	2	1965	1/1	0.78	0.47	60,60,60,60	0
84	MG	5	3596	1/1	0.78	0.13	40,40,40,40	0
84	MG	5	3723	1/1	0.78	0.15	38,38,38,38	0
84	MG	5	3735	1/1	0.78	0.09	65,65,65,65	0
84	MG	6	1921	1/1	0.78	0.44	56,56,56,56	0
84	MG	7	210	1/1	0.78	0.13	53,53,53,53	0
84	MG	1	3720	1/1	0.78	0.18	56,56,56,56	0
84	MG	2	1950	1/1	0.78	0.31	72,72,72,72	0
84	MG	1	3688	1/1	0.78	0.22	47,47,47,47	0
84	MG	1	3630	1/1	0.78	0.38	56,56,56,56	0
84	MG	5	3623	1/1	0.78	0.33	57,57,57,57	0
84	MG	2	1957	1/1	0.78	0.47	76,76,76,76	0
84	MG	2	1917	1/1	0.78	0.46	62,62,62,62	0
84	MG	2	1959	1/1	0.78	0.40	67,67,67,67	0
84	MG	5	3477	1/1	0.78	0.11	42,42,42,42	0
87	ANM	1	3401	19/19	0.78	0.37	62,62,62,62	19
84	MG	1	3443	1/1	0.79	0.28	43,43,43,43	0
84	MG	2	1952	1/1	0.79	0.49	77,77,77,77	0
84	MG	1	3586	1/1	0.79	0.46	68,68,68,68	0
84	MG	6	1910	1/1	0.79	0.16	74,74,74,74	0
84	MG	6	2006	1/1	0.79	0.34	61,61,61,61	0
84	MG	5	3537	1/1	0.79	0.31	36,36,36,36	0
84	MG	2	1948	1/1	0.79	0.25	94,94,94,94	0
84	MG	5	3698	1/1	0.79	0.25	73,73,73,73	0
84	MG	5	3712	1/1	0.79	0.11	44,44,44,44	0
84	MG	5	3714	1/1	0.79	0.22	34,34,34,34	0
84	MG	1	3658	1/1	0.79	0.24	52,52,52,52	0
84	MG	6	1924	1/1	0.79	0.28	56,56,56,56	0
84	MG	5	3738	1/1	0.79	0.17	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3597	1/1	0.79	0.28	46,46,46,46	0
84	MG	2	1922	1/1	0.79	0.55	74,74,74,74	0
84	MG	1	3722	1/1	0.79	0.12	60,60,60,60	0
84	MG	1	3673	1/1	0.79	0.29	65,65,65,65	0
84	MG	13	404	1/1	0.79	0.14	39,39,39,39	0
84	MG	5	3451	1/1	0.79	0.27	33,33,33,33	0
84	MG	1	3538	1/1	0.79	0.39	42,42,42,42	0
85	OHX	2	2102	7/7	0.79	0.22	114,114,114,114	0
84	MG	5	3628	1/1	0.79	0.28	49,49,49,49	0
84	MG	4	213	1/1	0.79	0.18	41,41,41,41	0
84	MG	2	1945	1/1	0.79	0.23	63,63,63,63	0
85	OHX	2	2118	7/7	0.79	0.20	132,132,132,132	0
85	OHX	2	2119	7/7	0.79	0.18	144,144,144,144	0
85	OHX	6	2157	7/7	0.79	0.21	115,115,115,115	0
84	MG	1	3484	1/1	0.79	0.28	52,52,52,52	0
84	MG	5	3467	1/1	0.79	0.39	65,65,65,65	0
84	MG	1	3439	1/1	0.79	0.31	60,60,60,60	0
84	MG	2	1927	1/1	0.80	0.48	65,65,65,65	0
84	MG	5	3574	1/1	0.80	0.32	53,53,53,53	0
84	MG	1	3408	1/1	0.80	0.29	50,50,50,50	0
84	MG	1	3460	1/1	0.80	0.27	52,52,52,52	0
84	MG	5	3402	1/1	0.80	0.39	61,61,61,61	0
84	MG	2	1913	1/1	0.80	0.22	63,63,63,63	0
84	MG	O7	102	1/1	0.80	0.17	51,51,51,51	0
84	MG	1	3641	1/1	0.80	0.31	51,51,51,51	0
84	MG	2	1931	1/1	0.80	0.51	65,65,65,65	0
84	MG	2	1914	1/1	0.80	0.44	73,73,73,73	0
84	MG	6	1940	1/1	0.80	0.26	43,43,43,43	0
84	MG	6	1944	1/1	0.80	0.53	69,69,69,69	0
84	MG	6	1985	1/1	0.80	0.36	65,65,65,65	0
84	MG	6	1990	1/1	0.80	0.18	61,61,61,61	0
85	OHX	2	2106	7/7	0.80	0.24	123,123,123,123	0
85	OHX	2	2109	7/7	0.80	0.22	112,112,112,112	0
84	MG	6	1950	1/1	0.80	0.34	72,72,72,72	0
84	MG	1	3437	1/1	0.80	0.19	45,45,45,45	0
84	MG	6	1996	1/1	0.80	0.15	54,54,54,54	0
84	MG	2	1934	1/1	0.80	0.28	72,72,72,72	0
84	MG	1	3508	1/1	0.80	0.23	43,43,43,43	0
85	OHX	1	3931	7/7	0.80	0.21	111,111,111,111	0
85	OHX	6	2131	7/7	0.80	0.21	121,121,121,121	0
85	OHX	6	2155	7/7	0.80	0.25	116,116,116,116	0
84	MG	2	1906	1/1	0.80	0.33	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3532	1/1	0.80	0.42	50,50,50,50	0
84	MG	6	1915	1/1	0.80	0.36	72,72,72,72	0
85	OHX	5	4061	7/7	0.80	0.26	121,121,121,121	0
85	OHX	5	4070	7/7	0.80	0.20	135,135,135,135	0
84	MG	2	1901	1/1	0.80	0.61	85,85,85,85	0
84	MG	5	3732	1/1	0.81	0.17	52,52,52,52	0
84	MG	1	3534	1/1	0.81	0.45	36,36,36,36	0
84	MG	1	3638	1/1	0.81	0.20	46,46,46,46	0
84	MG	1	3639	1/1	0.81	0.26	59,59,59,59	0
84	MG	5	4074	1/1	0.81	0.28	32,32,32,32	0
84	MG	1	4039	1/1	0.81	0.20	46,46,46,46	0
84	MG	8	202	1/1	0.81	0.28	64,64,64,64	0
84	MG	8	204	1/1	0.81	0.14	56,56,56,56	0
84	MG	8	209	1/1	0.81	0.40	68,68,68,68	0
84	MG	1	3434	1/1	0.81	0.33	52,52,52,52	0
84	MG	5	3462	1/1	0.81	0.25	58,58,58,58	0
84	MG	3	206	1/1	0.81	0.37	59,59,59,59	0
84	MG	1	3501	1/1	0.81	0.38	43,43,43,43	0
84	MG	4	210	1/1	0.81	0.30	58,58,58,58	0
84	MG	n9	101	1/1	0.81	0.13	33,33,33,33	0
84	MG	1	3693	1/1	0.81	0.29	58,58,58,58	0
84	MG	2	1982	1/1	0.81	0.22	65,65,65,65	0
84	MG	5	3483	1/1	0.81	0.37	41,41,41,41	0
84	MG	5	3488	1/1	0.81	0.35	53,53,53,53	0
84	MG	O4	202	1/1	0.81	0.27	67,67,67,67	0
84	MG	1	3417	1/1	0.81	0.36	58,58,58,58	0
84	MG	5	3517	1/1	0.81	0.29	53,53,53,53	0
84	MG	5	3684	1/1	0.81	0.21	77,77,77,77	0
84	MG	1	3526	1/1	0.81	0.24	52,52,52,52	0
85	OHX	1	4012	7/7	0.81	0.21	116,116,116,116	0
84	MG	6	1901	1/1	0.81	0.31	50,50,50,50	0
85	OHX	6	2148	7/7	0.81	0.23	114,114,114,114	0
84	MG	2	1972	1/1	0.81	0.24	71,71,71,71	0
84	MG	5	3541	1/1	0.81	0.34	50,50,50,50	0
84	MG	1	3583	1/1	0.81	0.12	61,61,61,61	0
85	OHX	5	4001	7/7	0.81	0.21	130,130,130,130	0
84	MG	5	3709	1/1	0.81	0.24	61,61,61,61	0
84	MG	5	3571	1/1	0.81	0.43	53,53,53,53	0
84	MG	6	1948	1/1	0.81	0.37	47,47,47,47	0
86	ZN	D7	101	1/1	0.81	0.16	115,115,115,115	0
84	MG	5	3421	1/1	0.81	0.27	50,50,50,50	0
84	MG	1	3402	1/1	0.82	0.37	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	2	1930	1/1	0.82	0.44	58,58,58,58	0
84	MG	5	3618	1/1	0.82	0.32	40,40,40,40	0
84	MG	5	3621	1/1	0.82	0.39	40,40,40,40	0
85	OHX	2	2110	7/7	0.82	0.20	130,130,130,130	0
84	MG	1	3494	1/1	0.82	0.25	52,52,52,52	0
84	MG	1	3531	1/1	0.82	0.38	45,45,45,45	0
84	MG	5	3520	1/1	0.82	0.35	40,40,40,40	0
84	MG	5	3441	1/1	0.82	0.34	65,65,65,65	0
84	MG	2	1977	1/1	0.82	0.29	75,75,75,75	0
84	MG	1	3436	1/1	0.82	0.31	38,38,38,38	0
84	MG	5	4076	1/1	0.82	0.17	52,52,52,52	0
85	OHX	M9	201	7/7	0.82	0.18	124,124,124,124	0
84	MG	5	4078	1/1	0.82	0.18	40,40,40,40	0
84	MG	3	204	1/1	0.82	0.50	40,40,40,40	0
84	MG	2	1919	1/1	0.82	0.48	73,73,73,73	0
84	MG	2	1907	1/1	0.82	0.41	64,64,64,64	0
84	MG	4	207	1/1	0.82	0.30	49,49,49,49	0
84	MG	1	3616	1/1	0.82	0.50	81,81,81,81	0
84	MG	12	303	1/1	0.82	0.60	46,46,46,46	0
85	OHX	5	4058	7/7	0.82	0.21	115,115,115,115	0
84	MG	6	1918	1/1	0.82	0.34	58,58,58,58	0
84	MG	1	3512	1/1	0.82	0.35	55,55,55,55	0
85	OHX	7	221	7/7	0.82	0.20	110,110,110,110	0
84	MG	5	3403	1/1	0.82	0.14	45,45,45,45	0
84	MG	1	3621	1/1	0.82	0.21	36,36,36,36	0
84	MG	1	3559	1/1	0.83	0.24	48,48,48,48	0
84	MG	6	1903	1/1	0.83	0.38	45,45,45,45	0
84	MG	6	1936	1/1	0.83	0.27	42,42,42,42	0
84	MG	2	1933	1/1	0.83	0.41	74,74,74,74	0
85	OHX	2	2108	7/7	0.83	0.16	145,145,145,145	0
84	MG	5	3598	1/1	0.83	0.13	42,42,42,42	0
84	MG	5	3470	1/1	0.83	0.20	32,32,32,32	0
84	MG	1	3599	1/1	0.83	0.19	59,59,59,59	0
84	MG	2	1938	1/1	0.83	0.36	75,75,75,75	0
84	MG	6	1942	1/1	0.83	0.43	79,79,79,79	0
84	MG	5	3721	1/1	0.83	0.28	35,35,35,35	0
84	MG	1	3411	1/1	0.83	0.26	51,51,51,51	0
84	MG	5	3484	1/1	0.83	0.30	35,35,35,35	0
85	OHX	1	3960	7/7	0.83	0.19	122,122,122,122	0
84	MG	6	1977	1/1	0.83	0.38	79,79,79,79	0
85	OHX	1	4024	7/7	0.83	0.14	155,155,155,155	0
85	OHX	4	229	7/7	0.83	0.21	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3707	1/1	0.83	0.31	53,53,53,53	0
85	OHX	N8	203	7/7	0.83	0.18	129,129,129,129	0
84	MG	5	3625	1/1	0.83	0.11	44,44,44,44	0
85	OHX	6	2132	7/7	0.83	0.20	112,112,112,112	0
84	MG	2	1966	1/1	0.83	0.39	67,67,67,67	0
84	MG	5	3637	1/1	0.83	0.23	49,49,49,49	0
85	OHX	6	2156	7/7	0.83	0.21	115,115,115,115	0
84	MG	1	3714	1/1	0.83	0.20	45,45,45,45	0
84	MG	6	1988	1/1	0.83	0.27	73,73,73,73	0
84	MG	1	3715	1/1	0.83	0.24	48,48,48,48	0
84	MG	1	3619	1/1	0.83	0.14	35,35,35,35	0
85	OHX	5	4055	7/7	0.83	0.22	114,114,114,114	0
84	MG	O7	103	1/1	0.83	0.14	64,64,64,64	0
84	MG	5	3660	1/1	0.83	0.33	41,41,41,41	0
85	OHX	5	4066	7/7	0.83	0.20	114,114,114,114	0
84	MG	1	3552	1/1	0.83	0.42	44,44,44,44	0
84	MG	1	3556	1/1	0.83	0.34	30,30,30,30	0
84	MG	5	3677	1/1	0.83	0.34	41,41,41,41	0
84	MG	5	3555	1/1	0.83	0.34	44,44,44,44	0
84	MG	5	3503	1/1	0.84	0.36	40,40,40,40	0
84	MG	1	3564	1/1	0.84	0.42	40,40,40,40	0
85	OHX	2	2098	7/7	0.84	0.23	125,125,125,125	0
84	MG	6	1931	1/1	0.84	0.27	48,48,48,48	0
84	MG	5	3522	1/1	0.84	0.32	43,43,43,43	0
85	OHX	2	2107	7/7	0.84	0.18	126,126,126,126	0
84	MG	1	3444	1/1	0.84	0.32	51,51,51,51	0
84	MG	5	3411	1/1	0.84	0.20	34,34,34,34	0
84	MG	5	3680	1/1	0.84	0.25	53,53,53,53	0
84	MG	1	3485	1/1	0.84	0.33	37,37,37,37	0
84	MG	1	3668	1/1	0.84	0.31	66,66,66,66	0
85	OHX	2	2116	7/7	0.84	0.22	109,109,109,109	0
84	MG	2	1967	1/1	0.84	0.16	83,83,83,83	0
84	MG	SM	201	1/1	0.84	0.33	56,56,56,56	0
84	MG	5	3559	1/1	0.84	0.18	40,40,40,40	0
84	MG	1	3681	1/1	0.84	0.12	45,45,45,45	0
84	MG	5	3704	1/1	0.84	0.27	54,54,54,54	0
84	MG	2	1976	1/1	0.84	0.46	68,68,68,68	0
84	MG	5	3588	1/1	0.84	0.29	57,57,57,57	0
84	MG	5	3456	1/1	0.84	0.32	54,54,54,54	0
84	MG	2	1970	1/1	0.84	0.28	76,76,76,76	0
84	MG	1	3689	1/1	0.84	0.22	57,57,57,57	0
84	MG	5	3602	1/1	0.84	0.33	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3462	1/1	0.84	0.30	38,38,38,38	0
84	MG	5	3461	1/1	0.84	0.12	40,40,40,40	0
84	MG	4	202	1/1	0.84	0.37	57,57,57,57	0
84	MG	5	3463	1/1	0.84	0.29	41,41,41,41	0
84	MG	1	3466	1/1	0.84	0.37	57,57,57,57	0
84	MG	1	3510	1/1	0.84	0.26	31,31,31,31	0
85	OHX	5	3938	7/7	0.84	0.18	115,115,115,115	0
84	MG	4	208	1/1	0.84	0.11	54,54,54,54	0
85	OHX	5	4008	7/7	0.84	0.16	144,144,144,144	0
84	MG	6	1923	1/1	0.84	0.38	68,68,68,68	0
85	OHX	5	4043	7/7	0.84	0.36	96,96,96,96	0
84	MG	2	1929	1/1	0.84	0.49	67,67,67,67	0
84	MG	6	2007	1/1	0.84	0.12	61,61,61,61	0
84	MG	6	2008	1/1	0.84	0.28	47,47,47,47	0
84	MG	1	3514	1/1	0.84	0.31	33,33,33,33	0
84	MG	1	3656	1/1	0.84	0.36	46,46,46,46	0
84	MG	c1	201	1/1	0.84	0.32	53,53,53,53	0
84	MG	M7	204	1/1	0.84	0.17	40,40,40,40	0
84	MG	m7	203	1/1	0.84	0.36	40,40,40,40	0
84	MG	l3	405	1/1	0.85	0.37	34,34,34,34	0
84	MG	1	3479	1/1	0.85	0.13	64,64,64,64	0
84	MG	1	3502	1/1	0.85	0.33	39,39,39,39	0
84	MG	1	3593	1/1	0.85	0.12	39,39,39,39	0
84	MG	1	3517	1/1	0.85	0.34	51,51,51,51	0
84	MG	5	3645	1/1	0.85	0.14	33,33,33,33	0
84	MG	5	3508	1/1	0.85	0.32	34,34,34,34	0
84	MG	1	3536	1/1	0.85	0.26	56,56,56,56	0
84	MG	5	3410	1/1	0.85	0.37	42,42,42,42	0
84	MG	1	3600	1/1	0.85	0.32	52,52,52,52	0
84	MG	5	3672	1/1	0.85	0.25	40,40,40,40	0
84	MG	5	3529	1/1	0.85	0.47	58,58,58,58	0
84	MG	6	1973	1/1	0.85	0.21	78,78,78,78	0
85	OHX	2	2112	7/7	0.85	0.19	116,116,116,116	0
85	OHX	2	2113	7/7	0.85	0.20	110,110,110,110	0
84	MG	L2	301	1/1	0.85	0.27	39,39,39,39	0
84	MG	5	3420	1/1	0.85	0.28	60,60,60,60	0
84	MG	6	1929	1/1	0.85	0.28	67,67,67,67	0
84	MG	5	3429	1/1	0.85	0.18	78,78,78,78	0
84	MG	5	3688	1/1	0.85	0.22	33,33,33,33	0
85	OHX	S6	301	7/7	0.85	0.18	117,117,117,117	0
84	MG	1	3486	1/1	0.85	0.37	36,36,36,36	0
84	MG	1	3604	1/1	0.85	0.12	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	1	3992	7/7	0.85	0.21	116,116,116,116	0
84	MG	6	1932	1/1	0.85	0.57	62,62,62,62	0
85	OHX	1	4014	7/7	0.85	0.18	110,110,110,110	0
84	MG	1	3520	1/1	0.85	0.26	42,42,42,42	0
84	MG	5	3701	1/1	0.85	0.14	47,47,47,47	0
84	MG	1	3610	1/1	0.85	0.33	42,42,42,42	0
84	MG	5	3589	1/1	0.85	0.28	37,37,37,37	0
84	MG	1	3611	1/1	0.85	0.09	39,39,39,39	0
84	MG	1	3614	1/1	0.85	0.10	55,55,55,55	0
85	OHX	6	2142	7/7	0.85	0.20	117,117,117,117	0
84	MG	5	3597	1/1	0.85	0.13	29,29,29,29	0
85	OHX	6	2151	7/7	0.85	0.19	127,127,127,127	0
84	MG	1	3665	1/1	0.85	0.29	67,67,67,67	0
84	MG	1	3666	1/1	0.85	0.19	45,45,45,45	0
84	MG	5	3734	1/1	0.85	0.21	60,60,60,60	0
84	MG	1	3718	1/1	0.85	0.09	78,78,78,78	0
84	MG	1	3549	1/1	0.85	0.39	53,53,53,53	0
85	OHX	5	3969	7/7	0.85	0.15	138,138,138,138	0
84	MG	1	3618	1/1	0.85	0.36	62,62,62,62	0
84	MG	5	3469	1/1	0.85	0.27	58,58,58,58	0
84	MG	6	1908	1/1	0.85	0.26	51,51,51,51	0
84	MG	5	3617	1/1	0.85	0.22	46,46,46,46	0
85	OHX	5	4050	7/7	0.85	0.13	158,158,158,158	0
84	MG	1	3571	1/1	0.85	0.28	35,35,35,35	0
84	MG	5	3619	1/1	0.85	0.19	37,37,37,37	0
84	MG	1	3581	1/1	0.85	0.27	45,45,45,45	0
84	MG	1	3679	1/1	0.85	0.14	34,34,34,34	0
84	MG	5	3624	1/1	0.85	0.09	41,41,41,41	0
84	MG	1	3412	1/1	0.85	0.28	42,42,42,42	0
85	OHX	13	408	7/7	0.85	0.19	111,111,111,111	0
84	MG	6	1917	1/1	0.85	0.44	75,75,75,75	0
84	MG	5	3633	1/1	0.85	0.40	36,36,36,36	0
85	OHX	2	2085	7/7	0.86	0.20	114,114,114,114	0
85	OHX	2	2096	7/7	0.86	0.17	122,122,122,122	0
84	MG	5	3413	1/1	0.86	0.33	41,41,41,41	0
85	OHX	2	2101	7/7	0.86	0.16	129,129,129,129	0
84	MG	5	3527	1/1	0.86	0.40	69,69,69,69	0
84	MG	1	3587	1/1	0.86	0.23	42,42,42,42	0
84	MG	1	3712	1/1	0.86	0.16	41,41,41,41	0
84	MG	5	3667	1/1	0.86	0.24	38,38,38,38	0
84	MG	1	3488	1/1	0.86	0.22	33,33,33,33	0
84	MG	1	3429	1/1	0.86	0.34	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3471	1/1	0.86	0.25	58,58,58,58	0
84	MG	5	3550	1/1	0.86	0.34	31,31,31,31	0
84	MG	6	1986	1/1	0.86	0.18	57,57,57,57	0
84	MG	1	3628	1/1	0.86	0.31	50,50,50,50	0
84	MG	5	3442	1/1	0.86	0.29	36,36,36,36	0
84	MG	5	3450	1/1	0.86	0.13	58,58,58,58	0
84	MG	6	1941	1/1	0.86	0.38	43,43,43,43	0
84	MG	5	3577	1/1	0.86	0.23	45,45,45,45	0
84	MG	6	1992	1/1	0.86	0.42	60,60,60,60	0
85	OHX	1	3921	7/7	0.86	0.24	110,110,110,110	0
84	MG	1	3598	1/1	0.86	0.17	39,39,39,39	0
84	MG	1	3445	1/1	0.86	0.28	40,40,40,40	0
84	MG	5	3459	1/1	0.86	0.26	40,40,40,40	0
84	MG	1	3477	1/1	0.86	0.20	54,54,54,54	0
84	MG	1	3685	1/1	0.86	0.19	39,39,39,39	0
85	OHX	1	4021	7/7	0.86	0.16	128,128,128,128	0
84	MG	5	3601	1/1	0.86	0.29	38,38,38,38	0
85	OHX	1	4028	7/7	0.86	0.19	115,115,115,115	0
84	MG	1	3529	1/1	0.86	0.35	50,50,50,50	0
84	MG	5	3605	1/1	0.86	0.10	37,37,37,37	0
84	MG	1	3405	1/1	0.86	0.43	63,63,63,63	0
84	MG	5	3609	1/1	0.86	0.28	55,55,55,55	0
84	MG	6	2004	1/1	0.86	0.19	70,70,70,70	0
85	OHX	6	2137	7/7	0.86	0.17	127,127,127,127	0
84	MG	2	1936	1/1	0.86	0.24	73,73,73,73	0
84	MG	5	3468	1/1	0.86	0.29	51,51,51,51	0
85	OHX	6	2149	7/7	0.86	0.16	132,132,132,132	0
84	MG	5	3615	1/1	0.86	0.32	56,56,56,56	0
84	MG	1	3647	1/1	0.86	0.32	49,49,49,49	0
84	MG	1	3609	1/1	0.86	0.26	41,41,41,41	0
84	MG	7	209	1/1	0.86	0.32	51,51,51,51	0
84	MG	4	209	1/1	0.86	0.16	54,54,54,54	0
85	OHX	c3	201	7/7	0.86	0.17	113,113,113,113	0
84	MG	5	3474	1/1	0.86	0.22	54,54,54,54	0
84	MG	1	3698	1/1	0.86	0.26	49,49,49,49	0
84	MG	8	206	1/1	0.86	0.34	52,52,52,52	0
84	MG	1	3418	1/1	0.86	0.37	66,66,66,66	0
85	OHX	5	4020	7/7	0.86	0.34	101,101,101,101	0
84	MG	1	3424	1/1	0.86	0.30	45,45,45,45	0
84	MG	6	1964	1/1	0.86	0.28	73,73,73,73	0
84	MG	sM	201	1/1	0.86	0.30	44,44,44,44	0
84	MG	L7	301	1/1	0.86	0.21	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3415	1/1	0.86	0.33	41,41,41,41	0
85	OHX	5	4060	7/7	0.86	0.16	125,125,125,125	0
84	MG	M7	201	1/1	0.86	0.36	60,60,60,60	0
84	MG	m5	301	1/1	0.86	0.25	48,48,48,48	0
84	MG	5	3406	1/1	0.86	0.18	47,47,47,47	0
85	OHX	7	220	7/7	0.86	0.32	110,110,110,110	0
84	MG	1	3542	1/1	0.86	0.29	46,46,46,46	0
84	MG	1	3545	1/1	0.86	0.40	36,36,36,36	0
85	OHX	2	2059	7/7	0.86	0.19	119,119,119,119	0
85	OHX	2	2075	7/7	0.86	0.22	115,115,115,115	0
84	MG	1	3568	1/1	0.87	0.34	40,40,40,40	0
84	MG	1	3706	1/1	0.87	0.57	32,32,32,32	0
84	MG	5	3455	1/1	0.87	0.29	50,50,50,50	0
84	MG	5	3737	1/1	0.87	0.13	52,52,52,52	0
84	MG	6	1965	1/1	0.87	0.23	56,56,56,56	0
85	OHX	S8	301	7/7	0.87	0.16	124,124,124,124	0
85	OHX	1	3905	7/7	0.87	0.26	79,79,79,79	0
84	MG	6	1968	1/1	0.87	0.29	55,55,55,55	0
84	MG	5	4071	1/1	0.87	0.21	43,43,43,43	0
85	OHX	1	3943	7/7	0.87	0.17	112,112,112,112	0
84	MG	5	4072	1/1	0.87	0.23	33,33,33,33	0
85	OHX	1	3974	7/7	0.87	0.15	127,127,127,127	0
84	MG	1	3456	1/1	0.87	0.12	32,32,32,32	0
84	MG	5	3627	1/1	0.87	0.30	34,34,34,34	0
84	MG	1	3442	1/1	0.87	0.10	41,41,41,41	0
85	OHX	1	4016	7/7	0.87	0.38	109,109,109,109	0
85	OHX	1	4020	7/7	0.87	0.21	118,118,118,118	0
84	MG	2	1951	1/1	0.87	0.28	58,58,58,58	0
84	MG	1	3661	1/1	0.87	0.22	55,55,55,55	0
84	MG	5	3638	1/1	0.87	0.12	37,37,37,37	0
85	OHX	1	4029	7/7	0.87	0.41	89,89,89,89	0
84	MG	5	3542	1/1	0.87	0.43	36,36,36,36	0
84	MG	1	3663	1/1	0.87	0.09	36,36,36,36	0
84	MG	6	1911	1/1	0.87	0.31	52,52,52,52	0
85	OHX	6	2095	7/7	0.87	0.18	119,119,119,119	0
85	OHX	6	2127	7/7	0.87	0.15	138,138,138,138	0
84	MG	1	3435	1/1	0.87	0.22	41,41,41,41	0
84	MG	1	3409	1/1	0.87	0.35	40,40,40,40	0
85	OHX	6	2134	7/7	0.87	0.18	112,112,112,112	0
84	MG	6	1916	1/1	0.87	0.30	46,46,46,46	0
84	MG	1	3721	1/1	0.87	0.35	42,42,42,42	0
84	MG	6	1949	1/1	0.87	0.43	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3578	1/1	0.87	0.48	40,40,40,40	0
84	MG	17	301	1/1	0.87	0.10	37,37,37,37	0
84	MG	19	201	1/1	0.87	0.10	45,45,45,45	0
84	MG	5	3471	1/1	0.87	0.32	68,68,68,68	0
84	MG	6	1987	1/1	0.87	0.20	55,55,55,55	0
84	MG	1	3642	1/1	0.87	0.28	48,48,48,48	0
84	MG	1	3723	1/1	0.87	0.22	37,37,37,37	0
85	OHX	2	2034	7/7	0.87	0.20	113,113,113,113	0
85	OHX	5	3959	7/7	0.87	0.17	118,118,118,118	0
84	MG	O4	201	1/1	0.87	0.37	51,51,51,51	0
85	OHX	5	3988	7/7	0.87	0.18	116,116,116,116	0
84	MG	5	3418	1/1	0.87	0.28	41,41,41,41	0
85	OHX	2	2076	7/7	0.87	0.17	135,135,135,135	0
85	OHX	5	4009	7/7	0.87	0.18	115,115,115,115	0
84	MG	5	3599	1/1	0.87	0.20	43,43,43,43	0
85	OHX	2	2089	7/7	0.87	0.20	113,113,113,113	0
85	OHX	5	4029	7/7	0.87	0.16	128,128,128,128	0
84	MG	2	1918	1/1	0.87	0.46	64,64,64,64	0
84	MG	5	3485	1/1	0.87	0.17	37,37,37,37	0
84	MG	5	3486	1/1	0.87	0.29	48,48,48,48	0
84	MG	2	1911	1/1	0.87	0.56	69,69,69,69	0
84	MG	5	3498	1/1	0.87	0.26	41,41,41,41	0
84	MG	3	203	1/1	0.87	0.20	44,44,44,44	0
84	MG	5	3611	1/1	0.87	0.25	40,40,40,40	0
85	OHX	5	4068	7/7	0.87	0.24	96,96,96,96	0
84	MG	1	3674	1/1	0.87	0.25	37,37,37,37	0
84	MG	5	3501	1/1	0.87	0.39	27,27,27,27	0
84	MG	6	1928	1/1	0.87	0.34	51,51,51,51	0
84	MG	1	3543	1/1	0.87	0.24	34,34,34,34	0
84	MG	5	3722	1/1	0.87	0.19	55,55,55,55	0
84	MG	5	3515	1/1	0.87	0.26	52,52,52,52	0
84	MG	l3	402	1/1	0.88	0.13	32,32,32,32	0
84	MG	4	214	1/1	0.88	0.26	53,53,53,53	0
84	MG	1	3626	1/1	0.88	0.15	44,44,44,44	0
84	MG	1	3697	1/1	0.88	0.15	41,41,41,41	0
84	MG	5	3604	1/1	0.88	0.25	36,36,36,36	0
84	MG	5	3509	1/1	0.88	0.25	47,47,47,47	0
84	MG	1	3672	1/1	0.88	0.18	42,42,42,42	0
84	MG	1	3649	1/1	0.88	0.24	43,43,43,43	0
85	OHX	3	218	7/7	0.88	0.19	125,125,125,125	0
84	MG	m7	201	1/1	0.88	0.10	37,37,37,37	0
84	MG	1	4040	1/1	0.88	0.21	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	n3	201	1/1	0.88	0.28	28,28,28,28	0
84	MG	6	1979	1/1	0.88	0.27	52,52,52,52	0
85	OHX	6	2112	7/7	0.88	0.17	115,115,115,115	0
84	MG	5	3524	1/1	0.88	0.38	34,34,34,34	0
84	MG	6	1947	1/1	0.88	0.38	53,53,53,53	0
85	OHX	2	2052	7/7	0.88	0.16	117,117,117,117	0
84	MG	N8	201	1/1	0.88	0.14	37,37,37,37	0
84	MG	1	3469	1/1	0.88	0.44	51,51,51,51	0
84	MG	6	1922	1/1	0.88	0.40	48,48,48,48	0
85	OHX	2	2080	7/7	0.88	0.18	112,112,112,112	0
84	MG	5	3409	1/1	0.88	0.29	58,58,58,58	0
84	MG	1	3503	1/1	0.88	0.41	33,33,33,33	0
84	MG	1	3507	1/1	0.88	0.29	34,34,34,34	0
84	MG	1	3680	1/1	0.88	0.10	40,40,40,40	0
84	MG	5	3725	1/1	0.88	0.24	38,38,38,38	0
84	MG	5	3728	1/1	0.88	0.30	50,50,50,50	0
85	OHX	s8	302	7/7	0.88	0.15	132,132,132,132	0
85	OHX	2	2105	7/7	0.88	0.21	114,114,114,114	0
84	MG	1	3516	1/1	0.88	0.40	40,40,40,40	0
84	MG	5	3473	1/1	0.88	0.30	44,44,44,44	0
84	MG	5	3557	1/1	0.88	0.45	42,42,42,42	0
84	MG	1	3539	1/1	0.88	0.42	44,44,44,44	0
84	MG	5	3561	1/1	0.88	0.49	48,48,48,48	0
85	OHX	5	4004	7/7	0.88	0.15	119,119,119,119	0
84	MG	1	3640	1/1	0.88	0.25	74,74,74,74	0
84	MG	5	3572	1/1	0.88	0.33	28,28,28,28	0
84	MG	6	1995	1/1	0.88	0.43	52,52,52,52	0
85	OHX	2	2114	7/7	0.88	0.12	170,170,170,170	0
84	MG	1	3493	1/1	0.88	0.34	30,30,30,30	0
84	MG	1	3623	1/1	0.88	0.17	51,51,51,51	0
84	MG	5	3584	1/1	0.88	0.11	45,45,45,45	0
84	MG	7	201	1/1	0.88	0.39	49,49,49,49	0
84	MG	7	206	1/1	0.88	0.34	42,42,42,42	0
84	MG	5	3647	1/1	0.88	0.13	41,41,41,41	0
84	MG	5	3585	1/1	0.88	0.16	39,39,39,39	0
84	MG	6	1905	1/1	0.88	0.41	61,61,61,61	0
84	MG	1	3612	1/1	0.88	0.16	40,40,40,40	0
84	MG	4	211	1/1	0.88	0.21	42,42,42,42	0
84	MG	5	3447	1/1	0.88	0.30	34,34,34,34	0
84	MG	6	1934	1/1	0.88	0.32	67,67,67,67	0
85	OHX	1	3973	7/7	0.88	0.38	105,105,105,105	0
84	MG	1	3645	1/1	0.88	0.30	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	l3	401	1/1	0.88	0.38	29,29,29,29	0
85	OHX	C3	201	7/7	0.89	0.16	115,115,115,115	0
85	OHX	C5	201	7/7	0.89	0.14	127,127,127,127	0
84	MG	5	3528	1/1	0.89	0.24	36,36,36,36	0
84	MG	O2	201	1/1	0.89	0.16	35,35,35,35	0
84	MG	1	3660	1/1	0.89	0.12	47,47,47,47	0
84	MG	1	3633	1/1	0.89	0.27	56,56,56,56	0
84	MG	5	3534	1/1	0.89	0.30	36,36,36,36	0
84	MG	5	3635	1/1	0.89	0.15	66,66,66,66	0
84	MG	1	3695	1/1	0.89	0.21	40,40,40,40	0
85	OHX	1	3991	7/7	0.89	0.17	119,119,119,119	0
84	MG	1	3585	1/1	0.89	0.33	59,59,59,59	0
85	OHX	1	4002	7/7	0.89	0.17	112,112,112,112	0
84	MG	6	1966	1/1	0.89	0.29	53,53,53,53	0
84	MG	5	3642	1/1	0.89	0.10	37,37,37,37	0
84	MG	2	1942	1/1	0.89	0.25	69,69,69,69	0
84	MG	5	3552	1/1	0.89	0.35	36,36,36,36	0
84	MG	1	3448	1/1	0.89	0.47	64,64,64,64	0
84	MG	5	3646	1/1	0.89	0.09	35,35,35,35	0
84	MG	5	3464	1/1	0.89	0.25	29,29,29,29	0
84	MG	3	205	1/1	0.89	0.27	66,66,66,66	0
84	MG	1	3524	1/1	0.89	0.28	43,43,43,43	0
84	MG	5	3659	1/1	0.89	0.11	41,41,41,41	0
85	OHX	4	230	7/7	0.89	0.38	108,108,108,108	0
84	MG	1	3565	1/1	0.89	0.27	32,32,32,32	0
84	MG	6	1935	1/1	0.89	0.40	44,44,44,44	0
85	OHX	6	2093	7/7	0.89	0.16	117,117,117,117	0
84	MG	m5	303	1/1	0.89	0.32	46,46,46,46	0
84	MG	1	3419	1/1	0.89	0.31	44,44,44,44	0
85	OHX	6	2114	7/7	0.89	0.19	114,114,114,114	0
84	MG	1	3495	1/1	0.89	0.35	41,41,41,41	0
85	OHX	6	2128	7/7	0.89	0.19	112,112,112,112	0
84	MG	n0	202	1/1	0.89	0.11	40,40,40,40	0
84	MG	5	3576	1/1	0.89	0.32	34,34,34,34	0
84	MG	5	3408	1/1	0.89	0.26	42,42,42,42	0
84	MG	1	3422	1/1	0.89	0.23	55,55,55,55	0
85	OHX	6	2141	7/7	0.89	0.33	109,109,109,109	0
84	MG	o1	201	1/1	0.89	0.13	49,49,49,49	0
85	OHX	6	2145	7/7	0.89	0.33	106,106,106,106	0
84	MG	5	3581	1/1	0.89	0.39	35,35,35,35	0
84	MG	5	3583	1/1	0.89	0.19	42,42,42,42	0
84	MG	6	1939	1/1	0.89	0.31	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	OHX	2	2071	7/7	0.89	0.16	127,127,127,127	0
84	MG	1	3468	1/1	0.89	0.25	59,59,59,59	0
84	MG	1	3433	1/1	0.89	0.23	36,36,36,36	0
85	OHX	2	2077	7/7	0.89	0.17	110,110,110,110	0
84	MG	5	3481	1/1	0.89	0.33	35,35,35,35	0
85	OHX	2	2083	7/7	0.89	0.18	115,115,115,115	0
85	OHX	d4	201	7/7	0.89	0.17	115,115,115,115	0
85	OHX	5	3937	7/7	0.89	0.19	112,112,112,112	0
84	MG	5	3414	1/1	0.89	0.19	31,31,31,31	0
85	OHX	5	3945	7/7	0.89	0.15	119,119,119,119	0
84	MG	1	3651	1/1	0.89	0.14	36,36,36,36	0
85	OHX	2	2091	7/7	0.89	0.16	122,122,122,122	0
84	MG	4	212	1/1	0.89	0.15	54,54,54,54	0
84	MG	1	3713	1/1	0.89	0.07	45,45,45,45	0
85	OHX	2	2100	7/7	0.89	0.17	116,116,116,116	0
84	MG	1	3575	1/1	0.89	0.34	40,40,40,40	0
84	MG	5	3491	1/1	0.89	0.36	42,42,42,42	0
84	MG	5	3492	1/1	0.89	0.33	41,41,41,41	0
84	MG	5	3493	1/1	0.89	0.42	34,34,34,34	0
84	MG	1	3653	1/1	0.89	0.10	40,40,40,40	0
85	OHX	5	4033	7/7	0.89	0.31	105,105,105,105	0
84	MG	5	3426	1/1	0.89	0.19	36,36,36,36	0
84	MG	1	3717	1/1	0.89	0.19	60,60,60,60	0
84	MG	5	3435	1/1	0.89	0.15	34,34,34,34	0
84	MG	6	1919	1/1	0.89	0.43	67,67,67,67	0
84	MG	5	3733	1/1	0.89	0.24	32,32,32,32	0
84	MG	6	1920	1/1	0.89	0.36	42,42,42,42	0
85	OHX	5	4063	7/7	0.89	0.18	121,121,121,121	0
84	MG	1	3579	1/1	0.89	0.30	40,40,40,40	0
84	MG	5	3445	1/1	0.89	0.42	49,49,49,49	0
84	MG	1	3458	1/1	0.89	0.30	59,59,59,59	0
84	MG	6	2000	1/1	0.89	0.20	86,86,86,86	0
84	MG	5	3521	1/1	0.89	0.27	39,39,39,39	0
84	MG	1	3557	1/1	0.89	0.41	37,37,37,37	0
84	MG	5	3452	1/1	0.89	0.24	43,43,43,43	0
86	ZN	d7	101	1/1	0.89	0.13	106,106,106,106	0
86	ZN	e1	501	1/1	0.89	0.07	160,160,160,160	0
84	MG	1	3691	1/1	0.89	0.14	54,54,54,54	0
85	OHX	1	3985	7/7	0.90	0.41	97,97,97,97	0
85	OHX	1	3986	7/7	0.90	0.16	112,112,112,112	0
84	MG	1	3578	1/1	0.90	0.19	35,35,35,35	0
84	MG	1	3719	1/1	0.90	0.24	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	l8	301	1/1	0.90	0.47	83,83,83,83	0
84	MG	5	3690	1/1	0.90	0.18	30,30,30,30	0
84	MG	5	3692	1/1	0.90	0.22	68,68,68,68	0
84	MG	1	3447	1/1	0.90	0.30	37,37,37,37	0
84	MG	m6	201	1/1	0.90	0.18	37,37,37,37	0
84	MG	5	3554	1/1	0.90	0.32	29,29,29,29	0
84	MG	m7	202	1/1	0.90	0.28	36,36,36,36	0
84	MG	1	3670	1/1	0.90	0.33	52,52,52,52	0
84	MG	6	1953	1/1	0.90	0.46	43,43,43,43	0
85	OHX	1	4035	7/7	0.90	0.21	105,105,105,105	0
85	OHX	1	4038	7/7	0.90	0.34	100,100,100,100	0
84	MG	1	3457	1/1	0.90	0.27	42,42,42,42	0
84	MG	5	3702	1/1	0.90	0.11	35,35,35,35	0
84	MG	1	3582	1/1	0.90	0.15	45,45,45,45	0
84	MG	5	3620	1/1	0.90	0.28	35,35,35,35	0
84	MG	5	3563	1/1	0.90	0.36	38,38,38,38	0
84	MG	5	3622	1/1	0.90	0.17	55,55,55,55	0
85	OHX	2	2055	7/7	0.90	0.29	111,111,111,111	0
84	MG	5	3718	1/1	0.90	0.08	40,40,40,40	0
85	OHX	2	2060	7/7	0.90	0.17	122,122,122,122	0
85	OHX	2	2067	7/7	0.90	0.28	106,106,106,106	0
84	MG	L3	401	1/1	0.90	0.38	53,53,53,53	0
85	OHX	2	2073	7/7	0.90	0.16	120,120,120,120	0
84	MG	2	1908	1/1	0.90	0.24	78,78,78,78	0
84	MG	5	3573	1/1	0.90	0.33	37,37,37,37	0
84	MG	1	3566	1/1	0.90	0.28	37,37,37,37	0
84	MG	1	4044	1/1	0.90	0.14	51,51,51,51	0
84	MG	5	3629	1/1	0.90	0.28	35,35,35,35	0
84	MG	5	3507	1/1	0.90	0.38	44,44,44,44	0
85	OHX	2	2087	7/7	0.90	0.17	119,119,119,119	0
84	MG	1	3423	1/1	0.90	0.19	36,36,36,36	0
85	OHX	2	2090	7/7	0.90	0.16	121,121,121,121	0
84	MG	1	3498	1/1	0.90	0.31	32,32,32,32	0
84	MG	5	3582	1/1	0.90	0.23	49,49,49,49	0
84	MG	1	3407	1/1	0.90	0.16	45,45,45,45	0
84	MG	1	3682	1/1	0.90	0.24	33,33,33,33	0
84	MG	5	3740	1/1	0.90	0.11	41,41,41,41	0
85	OHX	s9	201	7/7	0.90	0.37	96,96,96,96	0
84	MG	1	3451	1/1	0.90	0.24	47,47,47,47	0
85	OHX	c5	201	7/7	0.90	0.13	128,128,128,128	0
85	OHX	2	2103	7/7	0.90	0.14	132,132,132,132	0
85	OHX	5	3870	7/7	0.90	0.28	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3932	7/7	0.90	0.26	75,75,75,75	0
84	MG	5	3587	1/1	0.90	0.19	39,39,39,39	0
84	MG	1	3596	1/1	0.90	0.15	46,46,46,46	0
85	OHX	5	3943	7/7	0.90	0.16	116,116,116,116	0
84	MG	5	4075	1/1	0.90	0.32	33,33,33,33	0
84	MG	1	3662	1/1	0.90	0.14	45,45,45,45	0
84	MG	5	3592	1/1	0.90	0.15	42,42,42,42	0
85	OHX	5	3982	7/7	0.90	0.30	80,80,80,80	0
84	MG	5	3650	1/1	0.90	0.20	46,46,46,46	0
84	MG	7	202	1/1	0.90	0.13	32,32,32,32	0
84	MG	7	205	1/1	0.90	0.37	35,35,35,35	0
85	OHX	5	4005	7/7	0.90	0.23	104,104,104,104	0
84	MG	6	1943	1/1	0.90	0.50	58,58,58,58	0
84	MG	5	3525	1/1	0.90	0.29	36,36,36,36	0
84	MG	1	3491	1/1	0.90	0.44	41,41,41,41	0
84	MG	5	3440	1/1	0.90	0.09	40,40,40,40	0
84	MG	8	203	1/1	0.90	0.34	43,43,43,43	0
84	MG	5	3663	1/1	0.90	0.27	62,62,62,62	0
84	MG	5	3476	1/1	0.90	0.32	51,51,51,51	0
85	OHX	5	4044	7/7	0.90	0.16	116,116,116,116	0
84	MG	8	207	1/1	0.90	0.27	51,51,51,51	0
84	MG	8	208	1/1	0.90	0.13	63,63,63,63	0
84	MG	6	1945	1/1	0.90	0.42	66,66,66,66	0
84	MG	8	210	1/1	0.90	0.17	57,57,57,57	0
85	OHX	D9	103	7/7	0.90	0.19	108,108,108,108	0
85	OHX	5	4062	7/7	0.90	0.41	84,84,84,84	0
85	OHX	1	3889	7/7	0.90	0.21	99,99,99,99	0
84	MG	5	3479	1/1	0.90	0.21	35,35,35,35	0
85	OHX	1	3914	7/7	0.90	0.14	111,111,111,111	0
85	OHX	1	3918	7/7	0.90	0.15	121,121,121,121	0
84	MG	6	1946	1/1	0.90	0.33	49,49,49,49	0
84	MG	1	3574	1/1	0.90	0.32	33,33,33,33	0
85	OHX	8	223	7/7	0.90	0.33	95,95,95,95	0
84	MG	6	1978	1/1	0.90	0.18	76,76,76,76	0
85	OHX	14	402	7/7	0.90	0.41	99,99,99,99	0
85	OHX	1	3950	7/7	0.90	0.15	121,121,121,121	0
84	MG	1	3492	1/1	0.90	0.32	39,39,39,39	0
84	MG	5	3543	1/1	0.90	0.39	37,37,37,37	0
84	MG	5	3685	1/1	0.90	0.10	36,36,36,36	0
84	MG	8	201	1/1	0.91	0.11	42,42,42,42	0
84	MG	5	3566	1/1	0.91	0.40	46,46,46,46	0
85	OHX	6	2077	7/7	0.91	0.18	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2088	7/7	0.91	0.37	81,81,81,81	0
85	OHX	6	2090	7/7	0.91	0.17	115,115,115,115	0
84	MG	1	3528	1/1	0.91	0.23	34,34,34,34	0
84	MG	1	3432	1/1	0.91	0.21	49,49,49,49	0
85	OHX	6	2098	7/7	0.91	0.31	99,99,99,99	0
85	OHX	6	2105	7/7	0.91	0.18	115,115,115,115	0
85	OHX	6	2110	7/7	0.91	0.28	103,103,103,103	0
84	MG	1	3694	1/1	0.91	0.31	41,41,41,41	0
84	MG	1	3605	1/1	0.91	0.23	46,46,46,46	0
85	OHX	6	2116	7/7	0.91	0.14	111,111,111,111	0
85	OHX	2	2104	7/7	0.91	0.29	96,96,96,96	0
84	MG	1	3478	1/1	0.91	0.19	40,40,40,40	0
84	MG	5	3518	1/1	0.91	0.32	41,41,41,41	0
84	MG	5	3427	1/1	0.91	0.26	47,47,47,47	0
84	MG	12	301	1/1	0.91	0.41	48,48,48,48	0
85	OHX	6	2135	7/7	0.91	0.33	92,92,92,92	0
84	MG	5	3695	1/1	0.91	0.19	48,48,48,48	0
84	MG	1	3532	1/1	0.91	0.20	57,57,57,57	0
84	MG	1	3554	1/1	0.91	0.29	32,32,32,32	0
85	OHX	6	2143	7/7	0.91	0.33	97,97,97,97	0
84	MG	1	3631	1/1	0.91	0.33	49,49,49,49	0
85	OHX	6	2146	7/7	0.91	0.26	108,108,108,108	0
84	MG	1	3724	1/1	0.91	0.18	49,49,49,49	0
84	MG	5	3631	1/1	0.91	0.16	41,41,41,41	0
84	MG	1	3470	1/1	0.91	0.27	37,37,37,37	0
85	OHX	6	2154	7/7	0.91	0.31	100,100,100,100	0
84	MG	1	3590	1/1	0.91	0.27	60,60,60,60	0
84	MG	5	3713	1/1	0.91	0.25	33,33,33,33	0
84	MG	1	3482	1/1	0.91	0.17	53,53,53,53	0
84	MG	5	3715	1/1	0.91	0.12	39,39,39,39	0
84	MG	5	3446	1/1	0.91	0.13	45,45,45,45	0
84	MG	5	3720	1/1	0.91	0.15	32,32,32,32	0
84	MG	5	3640	1/1	0.91	0.18	51,51,51,51	0
84	MG	2	1980	1/1	0.91	0.18	58,58,58,58	0
84	MG	5	3449	1/1	0.91	0.13	34,34,34,34	0
85	OHX	sR	401	7/7	0.91	0.13	132,132,132,132	0
85	OHX	5	3860	7/7	0.91	0.14	122,122,122,122	0
85	OHX	1	3855	7/7	0.91	0.34	86,86,86,86	0
84	MG	3	202	1/1	0.91	0.46	67,67,67,67	0
84	MG	6	1960	1/1	0.91	0.21	45,45,45,45	0
84	MG	5	3405	1/1	0.91	0.17	43,43,43,43	0
84	MG	1	3577	1/1	0.91	0.28	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	n8	202	1/1	0.91	0.15	37,37,37,37	0
85	OHX	1	3922	7/7	0.91	0.40	92,92,92,92	0
85	OHX	1	3930	7/7	0.91	0.24	100,100,100,100	0
85	OHX	5	3976	7/7	0.91	0.20	107,107,107,107	0
84	MG	5	3544	1/1	0.91	0.31	32,32,32,32	0
85	OHX	5	3986	7/7	0.91	0.33	105,105,105,105	0
84	MG	5	3547	1/1	0.91	0.36	33,33,33,33	0
85	OHX	5	3992	7/7	0.91	0.37	97,97,97,97	0
85	OHX	5	3996	7/7	0.91	0.32	92,92,92,92	0
84	MG	q0	202	1/1	0.91	0.08	44,44,44,44	0
85	OHX	1	3955	7/7	0.91	0.28	108,108,108,108	0
84	MG	5	3549	1/1	0.91	0.41	48,48,48,48	0
84	MG	5	3490	1/1	0.91	0.44	39,39,39,39	0
84	MG	5	3658	1/1	0.91	0.20	46,46,46,46	0
85	OHX	5	4010	7/7	0.91	0.39	75,75,75,75	0
85	OHX	5	4013	7/7	0.91	0.38	96,96,96,96	0
85	OHX	2	2058	7/7	0.91	0.13	89,89,89,89	0
84	MG	5	3607	1/1	0.91	0.11	38,38,38,38	0
84	MG	N3	201	1/1	0.91	0.28	40,40,40,40	0
85	OHX	2	2063	7/7	0.91	0.11	160,160,160,160	0
85	OHX	5	4039	7/7	0.91	0.32	105,105,105,105	0
85	OHX	5	4040	7/7	0.91	0.39	102,102,102,102	0
85	OHX	1	4000	7/7	0.91	0.28	109,109,109,109	0
84	MG	5	3662	1/1	0.91	0.18	34,34,34,34	0
85	OHX	5	4045	7/7	0.91	0.36	99,99,99,99	0
85	OHX	1	4007	7/7	0.91	0.35	101,101,101,101	0
85	OHX	5	4053	7/7	0.91	0.21	105,105,105,105	0
84	MG	5	4073	1/1	0.91	0.42	31,31,31,31	0
84	MG	1	3438	1/1	0.91	0.28	32,32,32,32	0
84	MG	1	3664	1/1	0.91	0.13	36,36,36,36	0
85	OHX	1	4017	7/7	0.91	0.39	68,68,68,68	0
85	OHX	1	4018	7/7	0.91	0.25	88,88,88,88	0
84	MG	1	3474	1/1	0.91	0.30	53,53,53,53	0
84	MG	5	4077	1/1	0.91	0.45	38,38,38,38	0
84	MG	5	3669	1/1	0.91	0.28	39,39,39,39	0
85	OHX	2	2082	7/7	0.91	0.17	114,114,114,114	0
84	MG	5	3612	1/1	0.91	0.28	40,40,40,40	0
85	OHX	1	4030	7/7	0.91	0.35	98,98,98,98	0
85	OHX	8	222	7/7	0.91	0.15	114,114,114,114	0
85	OHX	1	4034	7/7	0.91	0.30	104,104,104,104	0
84	MG	4	201	1/1	0.91	0.41	53,53,53,53	0
85	OHX	1	4037	7/7	0.91	0.34	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	6	1967	1/1	0.91	0.20	51,51,51,51	0
84	MG	1	3475	1/1	0.91	0.33	40,40,40,40	0
84	MG	5	3416	1/1	0.91	0.21	38,38,38,38	0
84	MG	5	3682	1/1	0.91	0.13	35,35,35,35	0
84	MG	5	3531	1/1	0.92	0.30	56,56,56,56	0
84	MG	5	3673	1/1	0.92	0.20	34,34,34,34	0
85	OHX	6	2103	7/7	0.92	0.13	131,131,131,131	0
84	MG	1	3464	1/1	0.92	0.20	36,36,36,36	0
84	MG	5	3676	1/1	0.92	0.12	63,63,63,63	0
84	MG	1	3489	1/1	0.92	0.48	49,49,49,49	0
84	MG	1	3530	1/1	0.92	0.41	41,41,41,41	0
84	MG	6	1991	1/1	0.92	0.08	50,50,50,50	0
84	MG	6	1954	1/1	0.92	0.42	51,51,51,51	0
84	MG	1	4043	1/1	0.92	0.33	33,33,33,33	0
85	OHX	6	2129	7/7	0.92	0.10	152,152,152,152	0
84	MG	1	3515	1/1	0.92	0.33	41,41,41,41	0
84	MG	5	3424	1/1	0.92	0.25	32,32,32,32	0
84	MG	1	3481	1/1	0.92	0.20	45,45,45,45	0
84	MG	1	3558	1/1	0.92	0.30	45,45,45,45	0
85	OHX	6	2136	7/7	0.92	0.30	108,108,108,108	0
84	MG	1	3533	1/1	0.92	0.28	39,39,39,39	0
84	MG	5	3433	1/1	0.92	0.27	42,42,42,42	0
84	MG	5	3434	1/1	0.92	0.29	32,32,32,32	0
84	MG	1	3561	1/1	0.92	0.35	43,43,43,43	0
85	OHX	6	2144	7/7	0.92	0.30	102,102,102,102	0
84	MG	5	3436	1/1	0.92	0.15	30,30,30,30	0
84	MG	5	3556	1/1	0.92	0.25	36,36,36,36	0
84	MG	5	3437	1/1	0.92	0.12	35,35,35,35	0
84	MG	5	3487	1/1	0.92	0.28	32,32,32,32	0
85	OHX	6	2150	7/7	0.92	0.31	100,100,100,100	0
84	MG	1	3404	1/1	0.92	0.22	42,42,42,42	0
85	OHX	6	2153	7/7	0.92	0.25	109,109,109,109	0
84	MG	5	3439	1/1	0.92	0.12	33,33,33,33	0
84	MG	5	3710	1/1	0.92	0.12	44,44,44,44	0
84	MG	m5	302	1/1	0.92	0.12	53,53,53,53	0
85	OHX	1	3864	7/7	0.92	0.19	79,79,79,79	0
85	OHX	1	3877	7/7	0.92	0.12	126,126,126,126	0
85	OHX	1	3884	7/7	0.92	0.15	109,109,109,109	0
84	MG	5	3565	1/1	0.92	0.38	49,49,49,49	0
84	MG	1	3467	1/1	0.92	0.22	47,47,47,47	0
84	MG	3	208	1/1	0.92	0.25	65,65,65,65	0
84	MG	1	3671	1/1	0.92	0.11	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3717	1/1	0.92	0.11	39,39,39,39	0
84	MG	n0	201	1/1	0.92	0.09	43,43,43,43	0
84	MG	5	3632	1/1	0.92	0.30	42,42,42,42	0
85	OHX	5	3909	7/7	0.92	0.17	88,88,88,88	0
84	MG	1	3613	1/1	0.92	0.15	45,45,45,45	0
85	OHX	1	3935	7/7	0.92	0.31	88,88,88,88	0
84	MG	1	3506	1/1	0.92	0.42	42,42,42,42	0
85	OHX	1	3949	7/7	0.92	0.23	101,101,101,101	0
85	OHX	5	3944	7/7	0.92	0.35	74,74,74,74	0
84	MG	n6	202	1/1	0.92	0.28	52,52,52,52	0
85	OHX	1	3952	7/7	0.92	0.16	111,111,111,111	0
84	MG	5	3575	1/1	0.92	0.31	31,31,31,31	0
84	MG	4	206	1/1	0.92	0.21	35,35,35,35	0
85	OHX	5	3978	7/7	0.92	0.28	92,92,92,92	0
85	OHX	5	3980	7/7	0.92	0.20	102,102,102,102	0
84	MG	1	3646	1/1	0.92	0.12	53,53,53,53	0
84	MG	5	3727	1/1	0.92	0.15	62,62,62,62	0
85	OHX	2	2026	7/7	0.92	0.14	118,118,118,118	0
85	OHX	5	3989	7/7	0.92	0.36	81,81,81,81	0
85	OHX	2	2027	7/7	0.92	0.12	128,128,128,128	0
84	MG	1	3588	1/1	0.92	0.24	42,42,42,42	0
85	OHX	2	2040	7/7	0.92	0.21	110,110,110,110	0
84	MG	5	3505	1/1	0.92	0.38	36,36,36,36	0
84	MG	1	3521	1/1	0.92	0.33	31,31,31,31	0
85	OHX	1	4006	7/7	0.92	0.38	102,102,102,102	0
85	OHX	2	2057	7/7	0.92	0.15	126,126,126,126	0
85	OHX	1	4010	7/7	0.92	0.35	104,104,104,104	0
84	MG	6	1972	1/1	0.92	0.29	51,51,51,51	0
85	OHX	5	4014	7/7	0.92	0.29	96,96,96,96	0
85	OHX	5	4016	7/7	0.92	0.29	90,90,90,90	0
85	OHX	5	4018	7/7	0.92	0.29	105,105,105,105	0
85	OHX	5	4019	7/7	0.92	0.25	109,109,109,109	0
84	MG	1	3540	1/1	0.92	0.30	35,35,35,35	0
84	MG	5	3736	1/1	0.92	0.18	48,48,48,48	0
84	MG	5	3511	1/1	0.92	0.49	62,62,62,62	0
85	OHX	5	4031	7/7	0.92	0.24	106,106,106,106	0
84	MG	5	3401	1/1	0.92	0.21	32,32,32,32	0
85	OHX	5	4034	7/7	0.92	0.29	84,84,84,84	0
84	MG	2	1905	1/1	0.92	0.59	63,63,63,63	0
84	MG	5	3651	1/1	0.92	0.28	46,46,46,46	0
84	MG	6	1913	1/1	0.92	0.32	51,51,51,51	0
84	MG	1	3595	1/1	0.92	0.22	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3622	1/1	0.92	0.14	35,35,35,35	0
85	OHX	5	4046	7/7	0.92	0.36	75,75,75,75	0
85	OHX	5	4047	7/7	0.92	0.24	101,101,101,101	0
85	OHX	5	4048	7/7	0.92	0.25	104,104,104,104	0
84	MG	1	3655	1/1	0.92	0.10	41,41,41,41	0
85	OHX	5	4052	7/7	0.92	0.35	94,94,94,94	0
85	OHX	1	4032	7/7	0.92	0.36	88,88,88,88	0
84	MG	1	3687	1/1	0.92	0.11	48,48,48,48	0
85	OHX	5	4056	7/7	0.92	0.25	104,104,104,104	0
84	MG	6	1981	1/1	0.92	0.33	57,57,57,57	0
85	OHX	1	4036	7/7	0.92	0.24	104,104,104,104	0
85	OHX	2	2084	7/7	0.92	0.27	98,98,98,98	0
84	MG	1	3525	1/1	0.92	0.30	46,46,46,46	0
84	MG	5	3600	1/1	0.92	0.07	34,34,34,34	0
85	OHX	3	219	7/7	0.92	0.33	95,95,95,95	0
85	OHX	4	225	7/7	0.92	0.14	113,113,113,113	0
84	MG	5	3666	1/1	0.92	0.11	37,37,37,37	0
84	MG	1	3461	1/1	0.92	0.21	36,36,36,36	0
84	MG	7	204	1/1	0.92	0.29	40,40,40,40	0
85	OHX	2	2093	7/7	0.92	0.26	103,103,103,103	0
85	OHX	6	2068	7/7	0.92	0.18	90,90,90,90	0
85	OHX	8	224	7/7	0.92	0.41	94,94,94,94	0
84	MG	5	3668	1/1	0.92	0.43	71,71,71,71	0
85	OHX	6	2080	7/7	0.92	0.28	109,109,109,109	0
85	OHX	6	2084	7/7	0.92	0.14	117,117,117,117	0
84	MG	1	3455	1/1	0.92	0.26	32,32,32,32	0
85	OHX	2	2099	7/7	0.92	0.14	128,128,128,128	0
84	MG	7	208	1/1	0.92	0.27	43,43,43,43	0
84	MG	5	3422	1/1	0.93	0.20	37,37,37,37	0
84	MG	1	3562	1/1	0.93	0.29	48,48,48,48	0
84	MG	3	207	1/1	0.93	0.06	44,44,44,44	0
85	OHX	6	2130	7/7	0.93	0.37	88,88,88,88	0
84	MG	5	3724	1/1	0.93	0.13	42,42,42,42	0
84	MG	1	3708	1/1	0.93	0.25	60,60,60,60	0
85	OHX	6	2133	7/7	0.93	0.24	85,85,85,85	0
84	MG	1	3627	1/1	0.93	0.12	45,45,45,45	0
84	MG	5	3649	1/1	0.93	0.18	35,35,35,35	0
84	MG	6	2003	1/1	0.93	0.46	63,63,63,63	0
85	OHX	1	3920	7/7	0.93	0.12	121,121,121,121	0
85	OHX	6	2139	7/7	0.93	0.38	84,84,84,84	0
85	OHX	2	2025	7/7	0.93	0.16	108,108,108,108	0
84	MG	5	3593	1/1	0.93	0.31	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	1	3923	7/7	0.93	0.32	91,91,91,91	0
85	OHX	1	3929	7/7	0.93	0.33	83,83,83,83	0
84	MG	5	3652	1/1	0.93	0.08	44,44,44,44	0
84	MG	1	3453	1/1	0.93	0.24	33,33,33,33	0
84	MG	1	3476	1/1	0.93	0.18	42,42,42,42	0
85	OHX	1	3940	7/7	0.93	0.37	88,88,88,88	0
84	MG	5	3478	1/1	0.93	0.12	45,45,45,45	0
85	OHX	1	3946	7/7	0.93	0.29	99,99,99,99	0
84	MG	4	204	1/1	0.93	0.33	51,51,51,51	0
84	MG	4	205	1/1	0.93	0.35	39,39,39,39	0
84	MG	5	3538	1/1	0.93	0.33	41,41,41,41	0
84	MG	5	3540	1/1	0.93	0.34	28,28,28,28	0
84	MG	1	3505	1/1	0.93	0.16	38,38,38,38	0
85	OHX	1	3967	7/7	0.93	0.33	94,94,94,94	0
85	OHX	1	3969	7/7	0.93	0.25	103,103,103,103	0
84	MG	5	3482	1/1	0.93	0.10	33,33,33,33	0
84	MG	1	3440	1/1	0.93	0.12	48,48,48,48	0
85	OHX	1	3980	7/7	0.93	0.36	83,83,83,83	0
85	OHX	1	3981	7/7	0.93	0.22	95,95,95,95	0
85	OHX	1	3982	7/7	0.93	0.25	107,107,107,107	0
85	OHX	5	3849	7/7	0.93	0.17	90,90,90,90	0
85	OHX	1	3984	7/7	0.93	0.25	102,102,102,102	0
84	MG	5	3606	1/1	0.93	0.20	41,41,41,41	0
85	OHX	5	3871	7/7	0.93	0.24	77,77,77,77	0
85	OHX	5	3894	7/7	0.93	0.40	80,80,80,80	0
85	OHX	5	3897	7/7	0.93	0.28	81,81,81,81	0
85	OHX	5	3906	7/7	0.93	0.18	101,101,101,101	0
84	MG	1	3544	1/1	0.93	0.41	35,35,35,35	0
85	OHX	5	3919	7/7	0.93	0.26	97,97,97,97	0
85	OHX	1	3990	7/7	0.93	0.29	99,99,99,99	0
84	MG	5	3546	1/1	0.93	0.46	39,39,39,39	0
84	MG	1	3634	1/1	0.93	0.18	39,39,39,39	0
85	OHX	1	3993	7/7	0.93	0.34	87,87,87,87	0
85	OHX	1	3998	7/7	0.93	0.30	102,102,102,102	0
84	MG	5	3548	1/1	0.93	0.27	29,29,29,29	0
85	OHX	5	3958	7/7	0.93	0.28	98,98,98,98	0
85	OHX	2	2078	7/7	0.93	0.28	105,105,105,105	0
85	OHX	5	3961	7/7	0.93	0.20	102,102,102,102	0
85	OHX	5	3962	7/7	0.93	0.17	111,111,111,111	0
85	OHX	1	4003	7/7	0.93	0.27	108,108,108,108	0
85	OHX	5	3973	7/7	0.93	0.24	96,96,96,96	0
85	OHX	2	2079	7/7	0.93	0.15	115,115,115,115	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3637	1/1	0.93	0.19	42,42,42,42	0
84	MG	7	203	1/1	0.93	0.34	58,58,58,58	0
84	MG	1	3519	1/1	0.93	0.46	38,38,38,38	0
85	OHX	5	3983	7/7	0.93	0.27	83,83,83,83	0
85	OHX	5	3984	7/7	0.93	0.28	86,86,86,86	0
85	OHX	5	3985	7/7	0.93	0.34	97,97,97,97	0
85	OHX	1	4013	7/7	0.93	0.23	104,104,104,104	0
84	MG	5	3551	1/1	0.93	0.28	35,35,35,35	0
84	MG	5	3679	1/1	0.93	0.29	42,42,42,42	0
85	OHX	5	3990	7/7	0.93	0.38	76,76,76,76	0
84	MG	1	3425	1/1	0.93	0.14	49,49,49,49	0
84	MG	1	3592	1/1	0.93	0.18	61,61,61,61	0
85	OHX	5	3997	7/7	0.93	0.32	87,87,87,87	0
84	MG	1	3615	1/1	0.93	0.16	31,31,31,31	0
84	MG	1	3551	1/1	0.93	0.36	37,37,37,37	0
85	OHX	1	4023	7/7	0.93	0.27	109,109,109,109	0
85	OHX	2	2092	7/7	0.93	0.26	106,106,106,106	0
85	OHX	1	4025	7/7	0.93	0.37	101,101,101,101	0
84	MG	5	3686	1/1	0.93	0.11	44,44,44,44	0
84	MG	1	3446	1/1	0.93	0.18	47,47,47,47	0
85	OHX	2	2097	7/7	0.93	0.23	110,110,110,110	0
85	OHX	1	4031	7/7	0.93	0.19	102,102,102,102	0
85	OHX	5	4017	7/7	0.93	0.12	128,128,128,128	0
84	MG	6	1983	1/1	0.93	0.21	73,73,73,73	0
85	OHX	1	4033	7/7	0.93	0.23	100,100,100,100	0
84	MG	8	205	1/1	0.93	0.25	48,48,48,48	0
85	OHX	5	4023	7/7	0.93	0.31	89,89,89,89	0
84	MG	5	3689	1/1	0.93	0.08	30,30,30,30	0
85	OHX	5	4026	7/7	0.93	0.30	105,105,105,105	0
84	MG	1	3523	1/1	0.93	0.34	41,41,41,41	0
84	MG	5	3560	1/1	0.93	0.31	35,35,35,35	0
84	MG	M0	301	1/1	0.93	0.18	43,43,43,43	0
84	MG	1	3535	1/1	0.93	0.31	43,43,43,43	0
84	MG	M6	201	1/1	0.93	0.13	45,45,45,45	0
84	MG	5	3504	1/1	0.93	0.34	37,37,37,37	0
85	OHX	5	4042	7/7	0.93	0.29	100,100,100,100	0
85	OHX	4	227	7/7	0.93	0.37	85,85,85,85	0
85	OHX	4	228	7/7	0.93	0.32	85,85,85,85	0
84	MG	5	3569	1/1	0.93	0.46	29,29,29,29	0
84	MG	5	3700	1/1	0.93	0.09	38,38,38,38	0
85	OHX	4	231	7/7	0.93	0.25	103,103,103,103	0
84	MG	1	3430	1/1	0.93	0.20	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	M7	203	1/1	0.93	0.29	38,38,38,38	0
85	OHX	5	4051	7/7	0.93	0.28	100,100,100,100	0
85	OHX	O9	101	7/7	0.93	0.40	77,77,77,77	0
84	MG	1	3537	1/1	0.93	0.25	33,33,33,33	0
85	OHX	6	2070	7/7	0.93	0.28	98,98,98,98	0
84	MG	5	3705	1/1	0.93	0.16	36,36,36,36	0
85	OHX	6	2079	7/7	0.93	0.16	110,110,110,110	0
84	MG	5	3706	1/1	0.93	0.26	37,37,37,37	0
85	OHX	6	2083	7/7	0.93	0.14	116,116,116,116	0
84	MG	1	3702	1/1	0.93	0.21	36,36,36,36	0
85	OHX	6	2086	7/7	0.93	0.32	103,103,103,103	0
85	OHX	5	4064	7/7	0.93	0.34	90,90,90,90	0
84	MG	1	3490	1/1	0.93	0.20	42,42,42,42	0
84	MG	5	3711	1/1	0.93	0.11	32,32,32,32	0
85	OHX	6	2091	7/7	0.93	0.15	110,110,110,110	0
85	OHX	7	213	7/7	0.93	0.16	79,79,79,79	0
84	MG	5	3512	1/1	0.93	0.14	31,31,31,31	0
84	MG	5	3636	1/1	0.93	0.28	44,44,44,44	0
85	OHX	8	221	7/7	0.93	0.29	92,92,92,92	0
84	MG	1	3677	1/1	0.93	0.19	43,43,43,43	0
85	OHX	6	2101	7/7	0.93	0.22	105,105,105,105	0
84	MG	5	3465	1/1	0.93	0.12	41,41,41,41	0
84	MG	5	3716	1/1	0.93	0.22	29,29,29,29	0
84	MG	5	3419	1/1	0.93	0.11	41,41,41,41	0
85	OHX	l5	301	7/7	0.93	0.17	106,106,106,106	0
85	OHX	m0	302	7/7	0.93	0.22	88,88,88,88	0
85	OHX	m1	202	7/7	0.93	0.21	107,107,107,107	0
85	OHX	o9	101	7/7	0.93	0.26	87,87,87,87	0
84	MG	O3	201	1/1	0.93	0.12	42,42,42,42	0
84	MG	1	3452	1/1	0.93	0.36	38,38,38,38	0
85	OHX	SR	401	7/7	0.93	0.11	134,134,134,134	0
86	ZN	q2	501	1/1	0.93	0.20	64,64,64,64	0
85	OHX	6	2123	7/7	0.93	0.28	102,102,102,102	0
84	MG	5	3671	1/1	0.94	0.22	35,35,35,35	0
84	MG	L2	302	1/1	0.94	0.12	41,41,41,41	0
84	MG	1	3584	1/1	0.94	0.46	54,54,54,54	0
85	OHX	5	3839	7/7	0.94	0.17	84,84,84,84	0
84	MG	5	3454	1/1	0.94	0.26	37,37,37,37	0
84	MG	1	3573	1/1	0.94	0.47	33,33,33,33	0
85	OHX	5	3864	7/7	0.94	0.18	78,78,78,78	0
84	MG	6	1906	1/1	0.94	0.31	51,51,51,51	0
84	MG	1	3431	1/1	0.94	0.08	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3886	7/7	0.94	0.20	82,82,82,82	0
85	OHX	1	4015	7/7	0.94	0.31	91,91,91,91	0
84	MG	3	209	1/1	0.94	0.07	74,74,74,74	0
84	MG	5	3626	1/1	0.94	0.24	33,33,33,33	0
85	OHX	5	3907	7/7	0.94	0.12	116,116,116,116	0
84	MG	M5	301	1/1	0.94	0.11	39,39,39,39	0
85	OHX	5	3914	7/7	0.94	0.21	93,93,93,93	0
84	MG	n8	201	1/1	0.94	0.30	50,50,50,50	0
84	MG	5	3741	1/1	0.94	0.22	54,54,54,54	0
84	MG	5	3683	1/1	0.94	0.11	46,46,46,46	0
84	MG	1	3703	1/1	0.94	0.12	33,33,33,33	0
85	OHX	5	3940	7/7	0.94	0.21	99,99,99,99	0
84	MG	o3	201	1/1	0.94	0.18	49,49,49,49	0
85	OHX	1	4027	7/7	0.94	0.31	103,103,103,103	0
84	MG	5	3497	1/1	0.94	0.34	30,30,30,30	0
85	OHX	5	3947	7/7	0.94	0.33	79,79,79,79	0
85	OHX	5	3955	7/7	0.94	0.21	104,104,104,104	0
85	OHX	2	2008	7/7	0.94	0.14	105,105,105,105	0
85	OHX	2	2012	7/7	0.94	0.12	107,107,107,107	0
84	MG	6	1982	1/1	0.94	0.09	46,46,46,46	0
84	MG	1	3522	1/1	0.94	0.26	32,32,32,32	0
85	OHX	5	3964	7/7	0.94	0.29	106,106,106,106	0
85	OHX	5	3966	7/7	0.94	0.28	108,108,108,108	0
85	OHX	5	3967	7/7	0.94	0.13	116,116,116,116	0
84	MG	5	3545	1/1	0.94	0.34	30,30,30,30	0
85	OHX	5	3972	7/7	0.94	0.30	87,87,87,87	0
84	MG	5	3591	1/1	0.94	0.21	33,33,33,33	0
85	OHX	5	3975	7/7	0.94	0.36	85,85,85,85	0
85	OHX	1	3770	7/7	0.94	0.16	74,74,74,74	0
85	OHX	5	3977	7/7	0.94	0.38	70,70,70,70	0
85	OHX	1	3788	7/7	0.94	0.15	86,86,86,86	0
85	OHX	1	3806	7/7	0.94	0.14	92,92,92,92	0
85	OHX	1	3813	7/7	0.94	0.22	77,77,77,77	0
85	OHX	3	216	7/7	0.94	0.23	108,108,108,108	0
85	OHX	1	3820	7/7	0.94	0.14	87,87,87,87	0
85	OHX	2	2039	7/7	0.94	0.10	133,133,133,133	0
85	OHX	4	221	7/7	0.94	0.30	88,88,88,88	0
85	OHX	5	3987	7/7	0.94	0.38	81,81,81,81	0
85	OHX	1	3858	7/7	0.94	0.12	128,128,128,128	0
84	MG	s8	301	1/1	0.94	0.13	47,47,47,47	0
85	OHX	1	3865	7/7	0.94	0.20	93,93,93,93	0
85	OHX	1	3873	7/7	0.94	0.14	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3993	7/7	0.94	0.24	101,101,101,101	0
85	OHX	5	3994	7/7	0.94	0.30	97,97,97,97	0
84	MG	5	3428	1/1	0.94	0.37	39,39,39,39	0
85	OHX	1	3881	7/7	0.94	0.28	87,87,87,87	0
85	OHX	5	3998	7/7	0.94	0.42	83,83,83,83	0
85	OHX	5	4000	7/7	0.94	0.19	106,106,106,106	0
84	MG	5	3594	1/1	0.94	0.07	40,40,40,40	0
85	OHX	5	4002	7/7	0.94	0.31	102,102,102,102	0
85	OHX	1	3888	7/7	0.94	0.28	85,85,85,85	0
84	MG	1	3441	1/1	0.94	0.20	31,31,31,31	0
85	OHX	1	3903	7/7	0.94	0.23	77,77,77,77	0
84	MG	1	3690	1/1	0.94	0.17	48,48,48,48	0
85	OHX	1	3909	7/7	0.94	0.24	83,83,83,83	0
84	MG	5	3696	1/1	0.94	0.08	31,31,31,31	0
84	MG	6	1914	1/1	0.94	0.34	41,41,41,41	0
85	OHX	6	2081	7/7	0.94	0.17	110,110,110,110	0
85	OHX	1	3919	7/7	0.94	0.22	99,99,99,99	0
85	OHX	2	2061	7/7	0.94	0.15	115,115,115,115	0
85	OHX	2	2062	7/7	0.94	0.26	106,106,106,106	0
85	OHX	6	2087	7/7	0.94	0.30	109,109,109,109	0
84	MG	1	3725	1/1	0.94	0.31	52,52,52,52	0
85	OHX	6	2089	7/7	0.94	0.28	85,85,85,85	0
84	MG	5	3699	1/1	0.94	0.18	42,42,42,42	0
85	OHX	5	4027	7/7	0.94	0.29	92,92,92,92	0
85	OHX	1	3925	7/7	0.94	0.12	116,116,116,116	0
85	OHX	5	4030	7/7	0.94	0.37	89,89,89,89	0
85	OHX	2	2068	7/7	0.94	0.13	122,122,122,122	0
84	MG	1	3463	1/1	0.94	0.26	32,32,32,32	0
84	MG	1	3548	1/1	0.94	0.19	31,31,31,31	0
85	OHX	1	3932	7/7	0.94	0.39	71,71,71,71	0
85	OHX	1	3934	7/7	0.94	0.29	94,94,94,94	0
85	OHX	5	4041	7/7	0.94	0.33	96,96,96,96	0
84	MG	1	4041	1/1	0.94	0.22	41,41,41,41	0
85	OHX	6	2108	7/7	0.94	0.22	102,102,102,102	0
85	OHX	1	3936	7/7	0.94	0.20	98,98,98,98	0
85	OHX	1	3937	7/7	0.94	0.38	88,88,88,88	0
84	MG	2	1960	1/1	0.94	0.53	72,72,72,72	0
85	OHX	1	3941	7/7	0.94	0.26	107,107,107,107	0
85	OHX	6	2119	7/7	0.94	0.23	106,106,106,106	0
84	MG	5	3648	1/1	0.94	0.07	61,61,61,61	0
84	MG	5	3603	1/1	0.94	0.35	47,47,47,47	0
84	MG	5	3707	1/1	0.94	0.07	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	5	3708	1/1	0.94	0.13	44,44,44,44	0
85	OHX	5	4054	7/7	0.94	0.31	87,87,87,87	0
84	MG	1	3711	1/1	0.94	0.14	46,46,46,46	0
84	MG	5	3516	1/1	0.94	0.28	31,31,31,31	0
85	OHX	5	4057	7/7	0.94	0.30	96,96,96,96	0
84	MG	5	3407	1/1	0.94	0.22	33,33,33,33	0
85	OHX	1	3965	7/7	0.94	0.14	109,109,109,109	0
84	MG	5	3653	1/1	0.94	0.12	67,67,67,67	0
85	OHX	2	2086	7/7	0.94	0.28	104,104,104,104	0
85	OHX	1	3972	7/7	0.94	0.33	77,77,77,77	0
84	MG	5	3654	1/1	0.94	0.12	42,42,42,42	0
84	MG	1	3607	1/1	0.94	0.24	42,42,42,42	0
85	OHX	5	4067	7/7	0.94	0.21	93,93,93,93	0
85	OHX	1	3976	7/7	0.94	0.27	91,91,91,91	0
85	OHX	1	3978	7/7	0.94	0.24	92,92,92,92	0
84	MG	5	3444	1/1	0.94	0.15	32,32,32,32	0
84	MG	5	3562	1/1	0.94	0.19	32,32,32,32	0
84	MG	1	3483	1/1	0.94	0.21	45,45,45,45	0
84	MG	5	3564	1/1	0.94	0.30	38,38,38,38	0
85	OHX	2	2094	7/7	0.94	0.20	108,108,108,108	0
84	MG	1	3594	1/1	0.94	0.24	48,48,48,48	0
85	OHX	1	3988	7/7	0.94	0.30	104,104,104,104	0
85	OHX	8	225	7/7	0.94	0.34	101,101,101,101	0
85	OHX	1	3989	7/7	0.94	0.31	104,104,104,104	0
84	MG	5	3523	1/1	0.94	0.22	27,27,27,27	0
84	MG	6	1997	1/1	0.94	0.24	63,63,63,63	0
84	MG	5	3570	1/1	0.94	0.22	31,31,31,31	0
84	MG	5	3448	1/1	0.94	0.24	28,28,28,28	0
85	OHX	1	3996	7/7	0.94	0.26	97,97,97,97	0
85	OHX	1	3997	7/7	0.94	0.35	82,82,82,82	0
85	OHX	s4	301	7/7	0.94	0.23	110,110,110,110	0
84	MG	m1	201	1/1	0.94	0.15	48,48,48,48	0
84	MG	2	1902	1/1	0.94	0.38	55,55,55,55	0
84	MG	1	3683	1/1	0.94	0.20	34,34,34,34	0
85	OHX	5	3852	7/7	0.95	0.20	71,71,71,71	0
85	OHX	1	4019	7/7	0.95	0.32	85,85,85,85	0
85	OHX	1	3872	7/7	0.95	0.20	98,98,98,98	0
85	OHX	5	3867	7/7	0.95	0.22	85,85,85,85	0
84	MG	5	3489	1/1	0.95	0.20	34,34,34,34	0
84	MG	5	3423	1/1	0.95	0.34	45,45,45,45	0
85	OHX	5	3878	7/7	0.95	0.16	80,80,80,80	0
85	OHX	5	3884	7/7	0.95	0.10	129,129,129,129	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3885	7/7	0.95	0.26	92,92,92,92	0
85	OHX	1	3879	7/7	0.95	0.20	101,101,101,101	0
84	MG	5	3535	1/1	0.95	0.24	49,49,49,49	0
85	OHX	5	3895	7/7	0.95	0.28	76,76,76,76	0
85	OHX	1	4026	7/7	0.95	0.34	90,90,90,90	0
85	OHX	5	3905	7/7	0.95	0.27	93,93,93,93	0
84	MG	5	3670	1/1	0.95	0.28	35,35,35,35	0
84	MG	1	3511	1/1	0.95	0.43	39,39,39,39	0
84	MG	5	3719	1/1	0.95	0.07	32,32,32,32	0
85	OHX	5	3911	7/7	0.95	0.30	80,80,80,80	0
85	OHX	5	3913	7/7	0.95	0.20	88,88,88,88	0
85	OHX	1	3897	7/7	0.95	0.14	109,109,109,109	0
85	OHX	1	3899	7/7	0.95	0.28	91,91,91,91	0
85	OHX	5	3930	7/7	0.95	0.35	75,75,75,75	0
84	MG	5	3425	1/1	0.95	0.07	31,31,31,31	0
85	OHX	5	3934	7/7	0.95	0.27	91,91,91,91	0
84	MG	1	3454	1/1	0.95	0.27	34,34,34,34	0
85	OHX	1	3906	7/7	0.95	0.30	85,85,85,85	0
84	MG	5	3496	1/1	0.95	0.28	56,56,56,56	0
85	OHX	5	3941	7/7	0.95	0.29	90,90,90,90	0
85	OHX	1	3912	7/7	0.95	0.13	110,110,110,110	0
84	MG	5	3675	1/1	0.95	0.30	59,59,59,59	0
85	OHX	1	3917	7/7	0.95	0.10	133,133,133,133	0
85	OHX	5	3946	7/7	0.95	0.21	100,100,100,100	0
84	MG	1	3603	1/1	0.95	0.28	38,38,38,38	0
85	OHX	5	3948	7/7	0.95	0.26	92,92,92,92	0
85	OHX	5	3950	7/7	0.95	0.30	101,101,101,101	0
85	OHX	5	3951	7/7	0.95	0.24	92,92,92,92	0
85	OHX	5	3952	7/7	0.95	0.32	77,77,77,77	0
85	OHX	5	3954	7/7	0.95	0.26	82,82,82,82	0
84	MG	6	1957	1/1	0.95	0.40	63,63,63,63	0
85	OHX	5	3957	7/7	0.95	0.27	84,84,84,84	0
84	MG	5	3630	1/1	0.95	0.10	31,31,31,31	0
84	MG	1	3572	1/1	0.95	0.29	33,33,33,33	0
85	OHX	5	3960	7/7	0.95	0.23	105,105,105,105	0
85	OHX	4	223	7/7	0.95	0.20	97,97,97,97	0
84	MG	5	3730	1/1	0.95	0.07	43,43,43,43	0
85	OHX	5	3963	7/7	0.95	0.17	108,108,108,108	0
84	MG	5	3430	1/1	0.95	0.20	33,33,33,33	0
84	MG	5	3681	1/1	0.95	0.25	40,40,40,40	0
84	MG	L6	201	1/1	0.95	0.09	48,48,48,48	0
85	OHX	5	3968	7/7	0.95	0.19	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3413	1/1	0.95	0.28	43,43,43,43	0
85	OHX	5	3970	7/7	0.95	0.33	90,90,90,90	0
84	MG	1	3710	1/1	0.95	0.18	40,40,40,40	0
85	OHX	L4	401	7/7	0.95	0.25	92,92,92,92	0
85	OHX	M0	302	7/7	0.95	0.16	86,86,86,86	0
84	MG	1	3403	1/1	0.95	0.38	51,51,51,51	0
84	MG	1	3644	1/1	0.95	0.22	41,41,41,41	0
84	MG	5	3639	1/1	0.95	0.15	40,40,40,40	0
85	OHX	6	2027	7/7	0.95	0.14	78,78,78,78	0
85	OHX	5	3981	7/7	0.95	0.27	97,97,97,97	0
85	OHX	6	2040	7/7	0.95	0.14	89,89,89,89	0
85	OHX	6	2048	7/7	0.95	0.11	117,117,117,117	0
85	OHX	6	2054	7/7	0.95	0.21	84,84,84,84	0
85	OHX	6	2058	7/7	0.95	0.17	99,99,99,99	0
85	OHX	6	2063	7/7	0.95	0.10	134,134,134,134	0
84	MG	1	3426	1/1	0.95	0.47	50,50,50,50	0
85	OHX	6	2069	7/7	0.95	0.24	86,86,86,86	0
84	MG	1	3410	1/1	0.95	0.30	35,35,35,35	0
85	OHX	6	2074	7/7	0.95	0.16	106,106,106,106	0
85	OHX	1	3939	7/7	0.95	0.30	94,94,94,94	0
84	MG	1	3550	1/1	0.95	0.21	40,40,40,40	0
84	MG	5	3691	1/1	0.95	0.19	43,43,43,43	0
84	MG	1	3669	1/1	0.95	0.23	48,48,48,48	0
85	OHX	1	3945	7/7	0.95	0.09	162,162,162,162	0
84	MG	5	3513	1/1	0.95	0.27	32,32,32,32	0
84	MG	5	3514	1/1	0.95	0.31	30,30,30,30	0
84	MG	1	3648	1/1	0.95	0.25	37,37,37,37	0
84	MG	5	3558	1/1	0.95	0.34	37,37,37,37	0
85	OHX	1	3953	7/7	0.95	0.18	108,108,108,108	0
85	OHX	1	3954	7/7	0.95	0.31	96,96,96,96	0
84	MG	5	3475	1/1	0.95	0.38	32,32,32,32	0
85	OHX	1	3957	7/7	0.95	0.28	111,111,111,111	0
84	MG	o4	201	1/1	0.95	0.26	52,52,52,52	0
85	OHX	1	3962	7/7	0.95	0.19	101,101,101,101	0
85	OHX	6	2100	7/7	0.95	0.20	96,96,96,96	0
85	OHX	5	4015	7/7	0.95	0.26	98,98,98,98	0
85	OHX	1	3964	7/7	0.95	0.26	89,89,89,89	0
85	OHX	6	2102	7/7	0.95	0.25	104,104,104,104	0
84	MG	1	3480	1/1	0.95	0.23	36,36,36,36	0
85	OHX	1	3966	7/7	0.95	0.09	175,175,175,175	0
84	MG	q1	101	1/1	0.95	0.36	47,47,47,47	0
85	OHX	5	4022	7/7	0.95	0.30	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	2	1991	7/7	0.95	0.14	97,97,97,97	0
85	OHX	1	3970	7/7	0.95	0.25	94,94,94,94	0
85	OHX	6	2113	7/7	0.95	0.31	86,86,86,86	0
85	OHX	2	2000	7/7	0.95	0.12	89,89,89,89	0
85	OHX	5	4028	7/7	0.95	0.30	86,86,86,86	0
85	OHX	6	2115	7/7	0.95	0.17	106,106,106,106	0
85	OHX	2	2003	7/7	0.95	0.14	101,101,101,101	0
85	OHX	6	2118	7/7	0.95	0.21	109,109,109,109	0
85	OHX	5	4032	7/7	0.95	0.28	86,86,86,86	0
84	MG	1	3580	1/1	0.95	0.18	42,42,42,42	0
85	OHX	6	2121	7/7	0.95	0.26	108,108,108,108	0
85	OHX	5	4037	7/7	0.95	0.29	89,89,89,89	0
85	OHX	6	2122	7/7	0.95	0.30	92,92,92,92	0
85	OHX	1	3975	7/7	0.95	0.32	85,85,85,85	0
85	OHX	6	2126	7/7	0.95	0.24	96,96,96,96	0
84	MG	6	1999	1/1	0.95	0.27	49,49,49,49	0
85	OHX	1	3977	7/7	0.95	0.26	98,98,98,98	0
84	MG	1	3465	1/1	0.95	0.16	42,42,42,42	0
85	OHX	1	3979	7/7	0.95	0.26	94,94,94,94	0
84	MG	1	3553	1/1	0.95	0.27	30,30,30,30	0
84	MG	5	3703	1/1	0.95	0.10	36,36,36,36	0
85	OHX	2	2032	7/7	0.95	0.10	121,121,121,121	0
85	OHX	5	4049	7/7	0.95	0.32	85,85,85,85	0
85	OHX	1	3983	7/7	0.95	0.29	78,78,78,78	0
84	MG	7	207	1/1	0.95	0.06	36,36,36,36	0
85	OHX	2	2037	7/7	0.95	0.21	106,106,106,106	0
84	MG	1	3509	1/1	0.95	0.23	33,33,33,33	0
85	OHX	1	3987	7/7	0.95	0.29	79,79,79,79	0
85	OHX	6	2140	7/7	0.95	0.25	101,101,101,101	0
84	MG	1	3700	1/1	0.95	0.25	36,36,36,36	0
85	OHX	2	2044	7/7	0.95	0.13	113,113,113,113	0
85	OHX	2	2045	7/7	0.95	0.21	90,90,90,90	0
85	OHX	5	4059	7/7	0.95	0.34	74,74,74,74	0
85	OHX	2	2047	7/7	0.95	0.20	101,101,101,101	0
85	OHX	2	2049	7/7	0.95	0.21	100,100,100,100	0
85	OHX	2	2050	7/7	0.95	0.32	102,102,102,102	0
85	OHX	6	2147	7/7	0.95	0.29	100,100,100,100	0
85	OHX	1	3994	7/7	0.95	0.32	92,92,92,92	0
85	OHX	1	3995	7/7	0.95	0.14	86,86,86,86	0
84	MG	1	3654	1/1	0.95	0.13	45,45,45,45	0
85	OHX	1	3799	7/7	0.95	0.12	88,88,88,88	0
85	OHX	5	4069	7/7	0.95	0.11	129,129,129,129	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2152	7/7	0.95	0.21	107,107,107,107	0
85	OHX	1	3800	7/7	0.95	0.13	88,88,88,88	0
85	OHX	7	218	7/7	0.95	0.28	92,92,92,92	0
84	MG	5	3526	1/1	0.95	0.30	38,38,38,38	0
85	OHX	1	3810	7/7	0.95	0.12	99,99,99,99	0
85	OHX	8	218	7/7	0.95	0.30	79,79,79,79	0
84	MG	1	3428	1/1	0.95	0.26	48,48,48,48	0
84	MG	5	3453	1/1	0.95	0.10	42,42,42,42	0
85	OHX	1	3826	7/7	0.95	0.13	93,93,93,93	0
85	OHX	1	3828	7/7	0.95	0.12	104,104,104,104	0
85	OHX	1	4011	7/7	0.95	0.25	100,100,100,100	0
85	OHX	1	3837	7/7	0.95	0.20	71,71,71,71	0
84	MG	1	3636	1/1	0.95	0.27	46,46,46,46	0
85	OHX	1	3856	7/7	0.95	0.16	107,107,107,107	0
85	OHX	l5	302	7/7	0.95	0.20	107,107,107,107	0
85	OHX	l9	202	7/7	0.95	0.19	92,92,92,92	0
85	OHX	m0	301	7/7	0.95	0.14	109,109,109,109	0
85	OHX	c8	201	7/7	0.95	0.12	117,117,117,117	0
84	MG	5	3530	1/1	0.95	0.26	41,41,41,41	0
85	OHX	m7	204	7/7	0.95	0.34	84,84,84,84	0
84	MG	1	3617	1/1	0.95	0.13	43,43,43,43	0
85	OHX	5	3819	7/7	0.95	0.14	78,78,78,78	0
86	ZN	Q2	501	1/1	0.95	0.17	64,64,64,64	0
85	OHX	5	3838	7/7	0.95	0.15	101,101,101,101	0
84	MG	1	4042	1/1	0.95	0.08	45,45,45,45	0
85	OHX	5	3843	7/7	0.95	0.14	91,91,91,91	0
85	OHX	1	3869	7/7	0.95	0.20	91,91,91,91	0
85	OHX	1	3822	7/7	0.96	0.11	95,95,95,95	0
85	OHX	5	3933	7/7	0.96	0.30	77,77,77,77	0
85	OHX	1	3823	7/7	0.96	0.18	73,73,73,73	0
85	OHX	5	3935	7/7	0.96	0.18	92,92,92,92	0
85	OHX	5	3936	7/7	0.96	0.25	98,98,98,98	0
85	OHX	6	2072	7/7	0.96	0.22	92,92,92,92	0
85	OHX	1	3968	7/7	0.96	0.28	86,86,86,86	0
85	OHX	6	2075	7/7	0.96	0.23	96,96,96,96	0
85	OHX	2	2016	7/7	0.96	0.20	108,108,108,108	0
85	OHX	5	3942	7/7	0.96	0.22	98,98,98,98	0
85	OHX	2	2081	7/7	0.96	0.22	109,109,109,109	0
85	OHX	1	3971	7/7	0.96	0.32	98,98,98,98	0
85	OHX	1	3835	7/7	0.96	0.16	85,85,85,85	0
85	OHX	2	2017	7/7	0.96	0.14	89,89,89,89	0
85	OHX	1	3840	7/7	0.96	0.17	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2085	7/7	0.96	0.22	78,78,78,78	0
85	OHX	1	3843	7/7	0.96	0.24	79,79,79,79	0
85	OHX	1	3847	7/7	0.96	0.20	91,91,91,91	0
85	OHX	2	2021	7/7	0.96	0.19	99,99,99,99	0
85	OHX	2	2022	7/7	0.96	0.12	107,107,107,107	0
85	OHX	2	2023	7/7	0.96	0.27	90,90,90,90	0
85	OHX	5	3956	7/7	0.96	0.31	76,76,76,76	0
85	OHX	1	3862	7/7	0.96	0.23	74,74,74,74	0
84	MG	1	3555	1/1	0.96	0.22	35,35,35,35	0
84	MG	5	3661	1/1	0.96	0.14	33,33,33,33	0
85	OHX	6	2096	7/7	0.96	0.21	100,100,100,100	0
85	OHX	6	2097	7/7	0.96	0.16	103,103,103,103	0
85	OHX	1	3868	7/7	0.96	0.22	83,83,83,83	0
84	MG	5	3580	1/1	0.96	0.42	37,37,37,37	0
85	OHX	1	3870	7/7	0.96	0.22	97,97,97,97	0
85	OHX	5	3965	7/7	0.96	0.30	88,88,88,88	0
85	OHX	1	3871	7/7	0.96	0.21	100,100,100,100	0
85	OHX	2	2028	7/7	0.96	0.19	94,94,94,94	0
85	OHX	6	2104	7/7	0.96	0.26	103,103,103,103	0
85	OHX	2	2029	7/7	0.96	0.12	108,108,108,108	0
85	OHX	6	2106	7/7	0.96	0.25	96,96,96,96	0
85	OHX	6	2107	7/7	0.96	0.23	99,99,99,99	0
85	OHX	1	3875	7/7	0.96	0.20	100,100,100,100	0
85	OHX	5	3974	7/7	0.96	0.26	89,89,89,89	0
85	OHX	6	2109	7/7	0.96	0.24	84,84,84,84	0
85	OHX	2	2030	7/7	0.96	0.22	103,103,103,103	0
84	MG	M7	202	1/1	0.96	0.31	41,41,41,41	0
84	MG	5	3412	1/1	0.96	0.27	39,39,39,39	0
85	OHX	2	2095	7/7	0.96	0.29	96,96,96,96	0
85	OHX	1	3886	7/7	0.96	0.20	101,101,101,101	0
85	OHX	2	2035	7/7	0.96	0.17	95,95,95,95	0
85	OHX	6	2117	7/7	0.96	0.21	86,86,86,86	0
85	OHX	2	2036	7/7	0.96	0.14	103,103,103,103	0
85	OHX	1	3890	7/7	0.96	0.18	102,102,102,102	0
85	OHX	1	3894	7/7	0.96	0.11	114,114,114,114	0
85	OHX	1	3896	7/7	0.96	0.23	88,88,88,88	0
85	OHX	1	4001	7/7	0.96	0.19	108,108,108,108	0
85	OHX	6	2124	7/7	0.96	0.22	89,89,89,89	0
84	MG	1	3473	1/1	0.96	0.32	45,45,45,45	0
85	OHX	5	3991	7/7	0.96	0.28	87,87,87,87	0
85	OHX	1	3898	7/7	0.96	0.28	85,85,85,85	0
85	OHX	1	4004	7/7	0.96	0.31	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	2	2038	7/7	0.96	0.27	93,93,93,93	0
85	OHX	5	3995	7/7	0.96	0.27	80,80,80,80	0
84	MG	1	3504	1/1	0.96	0.26	40,40,40,40	0
84	MG	5	3431	1/1	0.96	0.20	37,37,37,37	0
85	OHX	2	2041	7/7	0.96	0.10	119,119,119,119	0
85	OHX	2	2042	7/7	0.96	0.11	110,110,110,110	0
85	OHX	1	3910	7/7	0.96	0.23	84,84,84,84	0
85	OHX	1	3911	7/7	0.96	0.19	103,103,103,103	0
85	OHX	5	4003	7/7	0.96	0.22	86,86,86,86	0
84	MG	5	3586	1/1	0.96	0.19	34,34,34,34	0
84	MG	5	3726	1/1	0.96	0.09	33,33,33,33	0
85	OHX	5	4006	7/7	0.96	0.32	89,89,89,89	0
85	OHX	5	4007	7/7	0.96	0.30	63,63,63,63	0
85	OHX	6	2138	7/7	0.96	0.25	77,77,77,77	0
85	OHX	1	3915	7/7	0.96	0.28	69,69,69,69	0
85	OHX	1	3916	7/7	0.96	0.29	87,87,87,87	0
85	OHX	5	4012	7/7	0.96	0.26	89,89,89,89	0
85	OHX	2	2046	7/7	0.96	0.18	105,105,105,105	0
84	MG	5	3432	1/1	0.96	0.20	31,31,31,31	0
84	MG	5	3536	1/1	0.96	0.43	46,46,46,46	0
85	OHX	1	4022	7/7	0.96	0.37	77,77,77,77	0
84	MG	5	3729	1/1	0.96	0.26	52,52,52,52	0
84	MG	1	3499	1/1	0.96	0.34	39,39,39,39	0
85	OHX	2	2054	7/7	0.96	0.10	122,122,122,122	0
84	MG	1	3675	1/1	0.96	0.12	41,41,41,41	0
85	OHX	5	4021	7/7	0.96	0.32	82,82,82,82	0
85	OHX	2	2056	7/7	0.96	0.10	127,127,127,127	0
85	OHX	1	3926	7/7	0.96	0.32	81,81,81,81	0
85	OHX	1	3927	7/7	0.96	0.28	92,92,92,92	0
85	OHX	5	4025	7/7	0.96	0.32	93,93,93,93	0
85	OHX	1	3928	7/7	0.96	0.23	95,95,95,95	0
84	MG	N8	202	1/1	0.96	0.08	35,35,35,35	0
84	MG	1	3676	1/1	0.96	0.19	48,48,48,48	0
84	MG	5	3495	1/1	0.96	0.23	35,35,35,35	0
84	MG	5	3519	1/1	0.96	0.41	34,34,34,34	0
85	OHX	1	3933	7/7	0.96	0.14	92,92,92,92	0
84	MG	5	3568	1/1	0.96	0.36	35,35,35,35	0
84	MG	1	3421	1/1	0.96	0.29	41,41,41,41	0
84	MG	1	3560	1/1	0.96	0.28	40,40,40,40	0
85	OHX	3	212	7/7	0.96	0.15	81,81,81,81	0
85	OHX	5	4038	7/7	0.96	0.27	91,91,91,91	0
85	OHX	3	215	7/7	0.96	0.16	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	2	2066	7/7	0.96	0.19	93,93,93,93	0
84	MG	2	1903	1/1	0.96	0.40	55,55,55,55	0
84	MG	1	3632	1/1	0.96	0.12	50,50,50,50	0
85	OHX	C8	201	7/7	0.96	0.10	97,97,97,97	0
85	OHX	5	3799	7/7	0.96	0.13	82,82,82,82	0
85	OHX	5	3802	7/7	0.96	0.14	70,70,70,70	0
85	OHX	5	3818	7/7	0.96	0.10	90,90,90,90	0
85	OHX	4	222	7/7	0.96	0.26	83,83,83,83	0
85	OHX	5	3837	7/7	0.96	0.27	72,72,72,72	0
85	OHX	1	3942	7/7	0.96	0.25	88,88,88,88	0
85	OHX	2	2069	7/7	0.96	0.11	112,112,112,112	0
85	OHX	2	2070	7/7	0.96	0.24	95,95,95,95	0
84	MG	1	3497	1/1	0.96	0.39	33,33,33,33	0
85	OHX	1	3947	7/7	0.96	0.23	85,85,85,85	0
85	OHX	1	3780	7/7	0.96	0.11	100,100,100,100	0
84	MG	1	3546	1/1	0.96	0.19	36,36,36,36	0
85	OHX	L3	402	7/7	0.96	0.29	86,86,86,86	0
85	OHX	5	3869	7/7	0.96	0.17	79,79,79,79	0
85	OHX	1	3795	7/7	0.96	0.13	83,83,83,83	0
85	OHX	2	2074	7/7	0.96	0.23	101,101,101,101	0
85	OHX	5	3873	7/7	0.96	0.22	68,68,68,68	0
85	OHX	5	3874	7/7	0.96	0.17	87,87,87,87	0
85	OHX	5	3876	7/7	0.96	0.31	76,76,76,76	0
85	OHX	M7	205	7/7	0.96	0.23	101,101,101,101	0
85	OHX	5	3879	7/7	0.96	0.15	103,103,103,103	0
85	OHX	5	4065	7/7	0.96	0.13	92,92,92,92	0
85	OHX	5	3880	7/7	0.96	0.18	91,91,91,91	0
85	OHX	5	3881	7/7	0.96	0.10	106,106,106,106	0
84	MG	5	3656	1/1	0.96	0.06	36,36,36,36	0
84	MG	5	3502	1/1	0.96	0.35	32,32,32,32	0
85	OHX	O3	202	7/7	0.96	0.32	85,85,85,85	0
85	OHX	5	3891	7/7	0.96	0.21	84,84,84,84	0
85	OHX	7	217	7/7	0.96	0.16	95,95,95,95	0
85	OHX	5	3893	7/7	0.96	0.10	111,111,111,111	0
85	OHX	7	219	7/7	0.96	0.26	80,80,80,80	0
85	OHX	1	3956	7/7	0.96	0.22	100,100,100,100	0
85	OHX	1	3807	7/7	0.96	0.14	76,76,76,76	0
85	OHX	8	215	7/7	0.96	0.14	94,94,94,94	0
85	OHX	8	217	7/7	0.96	0.17	101,101,101,101	0
85	OHX	5	3896	7/7	0.96	0.21	77,77,77,77	0
85	OHX	8	219	7/7	0.96	0.25	90,90,90,90	0
85	OHX	6	2036	7/7	0.96	0.11	110,110,110,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	OHX	5	3901	7/7	0.96	0.15	110,110,110,110	0
85	OHX	5	3903	7/7	0.96	0.11	110,110,110,110	0
85	OHX	5	3904	7/7	0.96	0.22	76,76,76,76	0
85	OHX	1	3958	7/7	0.96	0.29	84,84,84,84	0
85	OHX	13	407	7/7	0.96	0.24	78,78,78,78	0
84	MG	5	3443	1/1	0.96	0.13	38,38,38,38	0
85	OHX	14	401	7/7	0.96	0.21	96,96,96,96	0
85	OHX	1	3961	7/7	0.96	0.21	104,104,104,104	0
85	OHX	6	2057	7/7	0.96	0.10	108,108,108,108	0
85	OHX	5	3910	7/7	0.96	0.14	95,95,95,95	0
85	OHX	1	3812	7/7	0.96	0.14	88,88,88,88	0
85	OHX	5	3912	7/7	0.96	0.20	108,108,108,108	0
85	OHX	6	2061	7/7	0.96	0.18	98,98,98,98	0
85	OHX	6	2062	7/7	0.96	0.10	126,126,126,126	0
85	OHX	5	3916	7/7	0.96	0.27	85,85,85,85	0
85	OHX	5	3918	7/7	0.96	0.31	84,84,84,84	0
84	MG	1	3602	1/1	0.96	0.35	41,41,41,41	0
85	OHX	5	3921	7/7	0.96	0.25	95,95,95,95	0
85	OHX	5	3922	7/7	0.96	0.17	97,97,97,97	0
85	OHX	5	3926	7/7	0.96	0.15	104,104,104,104	0
85	OHX	5	3928	7/7	0.96	0.20	91,91,91,91	0
85	OHX	2	2015	7/7	0.96	0.13	106,106,106,106	0
85	OHX	1	3829	7/7	0.97	0.17	82,82,82,82	0
85	OHX	5	3939	7/7	0.97	0.26	83,83,83,83	0
85	OHX	1	3833	7/7	0.97	0.22	78,78,78,78	0
85	OHX	2	2064	7/7	0.97	0.19	92,92,92,92	0
85	OHX	1	3836	7/7	0.97	0.20	83,83,83,83	0
85	OHX	2	2065	7/7	0.97	0.20	104,104,104,104	0
85	OHX	1	3839	7/7	0.97	0.19	80,80,80,80	0
84	MG	6	1989	1/1	0.97	0.11	74,74,74,74	0
85	OHX	1	3842	7/7	0.97	0.13	96,96,96,96	0
84	MG	5	3510	1/1	0.97	0.29	36,36,36,36	0
85	OHX	1	3844	7/7	0.97	0.20	71,71,71,71	0
85	OHX	1	3845	7/7	0.97	0.28	77,77,77,77	0
85	OHX	6	2120	7/7	0.97	0.22	85,85,85,85	0
85	OHX	1	3938	7/7	0.97	0.26	92,92,92,92	0
85	OHX	5	3953	7/7	0.97	0.20	81,81,81,81	0
85	OHX	1	3846	7/7	0.97	0.18	97,97,97,97	0
84	MG	5	3539	1/1	0.97	0.27	29,29,29,29	0
85	OHX	1	3849	7/7	0.97	0.18	80,80,80,80	0
85	OHX	6	2125	7/7	0.97	0.24	87,87,87,87	0
85	OHX	1	3850	7/7	0.97	0.29	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	1	3851	7/7	0.97	0.26	82,82,82,82	0
85	OHX	1	3944	7/7	0.97	0.18	100,100,100,100	0
85	OHX	1	3852	7/7	0.97	0.10	110,110,110,110	0
84	MG	1	3420	1/1	0.97	0.08	38,38,38,38	0
84	MG	1	3547	1/1	0.97	0.32	33,33,33,33	0
84	MG	5	3590	1/1	0.97	0.18	34,34,34,34	0
85	OHX	1	3859	7/7	0.97	0.10	119,119,119,119	0
85	OHX	1	3951	7/7	0.97	0.28	81,81,81,81	0
85	OHX	3	213	7/7	0.97	0.15	97,97,97,97	0
85	OHX	3	214	7/7	0.97	0.17	95,95,95,95	0
85	OHX	1	3860	7/7	0.97	0.25	82,82,82,82	0
85	OHX	2	2072	7/7	0.97	0.23	106,106,106,106	0
85	OHX	5	3971	7/7	0.97	0.23	94,94,94,94	0
85	OHX	3	217	7/7	0.97	0.29	85,85,85,85	0
85	OHX	1	3863	7/7	0.97	0.15	95,95,95,95	0
85	OHX	2	2033	7/7	0.97	0.26	94,94,94,94	0
85	OHX	4	218	7/7	0.97	0.19	77,77,77,77	0
85	OHX	4	219	7/7	0.97	0.11	93,93,93,93	0
85	OHX	4	220	7/7	0.97	0.17	96,96,96,96	0
84	MG	5	3664	1/1	0.97	0.12	53,53,53,53	0
85	OHX	5	3979	7/7	0.97	0.23	85,85,85,85	0
85	OHX	1	3866	7/7	0.97	0.22	91,91,91,91	0
85	OHX	1	3867	7/7	0.97	0.22	75,75,75,75	0
85	OHX	4	224	7/7	0.97	0.26	82,82,82,82	0
85	OHX	1	3959	7/7	0.97	0.25	84,84,84,84	0
84	MG	1	3606	1/1	0.97	0.21	34,34,34,34	0
85	OHX	2	1985	7/7	0.97	0.14	84,84,84,84	0
85	OHX	2	1988	7/7	0.97	0.12	90,90,90,90	0
85	OHX	2	1990	7/7	0.97	0.12	95,95,95,95	0
84	MG	1	3625	1/1	0.97	0.32	63,63,63,63	0
85	OHX	2	1993	7/7	0.97	0.11	99,99,99,99	0
85	OHX	L3	403	7/7	0.97	0.20	86,86,86,86	0
85	OHX	2	1995	7/7	0.97	0.10	91,91,91,91	0
85	OHX	2	1997	7/7	0.97	0.11	115,115,115,115	0
85	OHX	M5	302	7/7	0.97	0.21	88,88,88,88	0
85	OHX	2	1998	7/7	0.97	0.11	89,89,89,89	0
84	MG	1	3591	1/1	0.97	0.08	44,44,44,44	0
85	OHX	1	3882	7/7	0.97	0.19	90,90,90,90	0
85	OHX	1	3883	7/7	0.97	0.17	106,106,106,106	0
84	MG	1	3513	1/1	0.97	0.38	38,38,38,38	0
85	OHX	5	3999	7/7	0.97	0.29	76,76,76,76	0
85	OHX	2	2005	7/7	0.97	0.14	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2032	7/7	0.97	0.10	87,87,87,87	0
85	OHX	5	3770	7/7	0.97	0.12	63,63,63,63	0
85	OHX	5	3784	7/7	0.97	0.12	70,70,70,70	0
85	OHX	5	3786	7/7	0.97	0.11	75,75,75,75	0
85	OHX	5	3788	7/7	0.97	0.09	78,78,78,78	0
85	OHX	5	3795	7/7	0.97	0.13	104,104,104,104	0
85	OHX	5	3796	7/7	0.97	0.11	89,89,89,89	0
85	OHX	6	2033	7/7	0.97	0.15	74,74,74,74	0
85	OHX	5	3800	7/7	0.97	0.11	78,78,78,78	0
85	OHX	1	3887	7/7	0.97	0.13	99,99,99,99	0
85	OHX	5	3810	7/7	0.97	0.11	87,87,87,87	0
85	OHX	5	3816	7/7	0.97	0.18	66,66,66,66	0
85	OHX	5	3817	7/7	0.97	0.14	67,67,67,67	0
85	OHX	6	2037	7/7	0.97	0.09	112,112,112,112	0
85	OHX	1	3756	7/7	0.97	0.10	68,68,68,68	0
85	OHX	5	3821	7/7	0.97	0.11	74,74,74,74	0
85	OHX	5	3824	7/7	0.97	0.14	82,82,82,82	0
85	OHX	5	3827	7/7	0.97	0.20	76,76,76,76	0
85	OHX	5	3832	7/7	0.97	0.09	103,103,103,103	0
85	OHX	5	3836	7/7	0.97	0.15	81,81,81,81	0
85	OHX	6	2042	7/7	0.97	0.15	100,100,100,100	0
85	OHX	6	2047	7/7	0.97	0.11	91,91,91,91	0
85	OHX	1	3765	7/7	0.97	0.11	79,79,79,79	0
85	OHX	5	3840	7/7	0.97	0.22	73,73,73,73	0
85	OHX	6	2049	7/7	0.97	0.16	85,85,85,85	0
85	OHX	5	3845	7/7	0.97	0.11	87,87,87,87	0
85	OHX	5	3846	7/7	0.97	0.24	58,58,58,58	0
85	OHX	6	2051	7/7	0.97	0.12	93,93,93,93	0
85	OHX	5	3850	7/7	0.97	0.10	107,107,107,107	0
85	OHX	6	2052	7/7	0.97	0.10	110,110,110,110	0
85	OHX	5	3854	7/7	0.97	0.24	80,80,80,80	0
85	OHX	5	3855	7/7	0.97	0.24	83,83,83,83	0
85	OHX	5	3856	7/7	0.97	0.08	120,120,120,120	0
85	OHX	5	4036	7/7	0.97	0.24	82,82,82,82	0
85	OHX	5	3857	7/7	0.97	0.21	71,71,71,71	0
85	OHX	5	3858	7/7	0.97	0.23	82,82,82,82	0
85	OHX	2	2048	7/7	0.97	0.20	87,87,87,87	0
85	OHX	5	3862	7/7	0.97	0.27	77,77,77,77	0
85	OHX	1	3891	7/7	0.97	0.26	81,81,81,81	0
85	OHX	5	3866	7/7	0.97	0.19	87,87,87,87	0
85	OHX	1	3892	7/7	0.97	0.22	95,95,95,95	0
85	OHX	6	2059	7/7	0.97	0.11	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2060	7/7	0.97	0.07	138,138,138,138	0
85	OHX	1	3893	7/7	0.97	0.28	81,81,81,81	0
85	OHX	1	3776	7/7	0.97	0.15	69,69,69,69	0
85	OHX	1	3778	7/7	0.97	0.11	84,84,84,84	0
85	OHX	5	3875	7/7	0.97	0.11	112,112,112,112	0
85	OHX	6	2064	7/7	0.97	0.08	141,141,141,141	0
85	OHX	6	2065	7/7	0.97	0.12	94,94,94,94	0
85	OHX	6	2067	7/7	0.97	0.16	98,98,98,98	0
84	MG	3	220	1/1	0.97	0.16	46,46,46,46	0
85	OHX	1	3781	7/7	0.97	0.14	78,78,78,78	0
85	OHX	5	3883	7/7	0.97	0.20	91,91,91,91	0
85	OHX	1	3783	7/7	0.97	0.13	70,70,70,70	0
85	OHX	1	3900	7/7	0.97	0.25	83,83,83,83	0
85	OHX	6	2073	7/7	0.97	0.25	86,86,86,86	0
85	OHX	5	3887	7/7	0.97	0.23	72,72,72,72	0
85	OHX	5	3889	7/7	0.97	0.24	72,72,72,72	0
85	OHX	5	3890	7/7	0.97	0.20	97,97,97,97	0
85	OHX	1	3901	7/7	0.97	0.15	106,106,106,106	0
85	OHX	1	3902	7/7	0.97	0.25	88,88,88,88	0
85	OHX	1	3784	7/7	0.97	0.10	77,77,77,77	0
85	OHX	6	2078	7/7	0.97	0.22	98,98,98,98	0
85	OHX	2	2009	7/7	0.97	0.15	95,95,95,95	0
85	OHX	2	2051	7/7	0.97	0.26	93,93,93,93	0
85	OHX	5	3899	7/7	0.97	0.26	80,80,80,80	0
85	OHX	5	3900	7/7	0.97	0.17	103,103,103,103	0
85	OHX	1	3907	7/7	0.97	0.20	96,96,96,96	0
85	OHX	5	3902	7/7	0.97	0.24	87,87,87,87	0
85	OHX	1	3797	7/7	0.97	0.11	76,76,76,76	0
84	MG	6	1974	1/1	0.97	0.06	50,50,50,50	0
85	OHX	2	2053	7/7	0.97	0.08	130,130,130,130	0
85	OHX	2	2013	7/7	0.97	0.19	105,105,105,105	0
85	OHX	1	3913	7/7	0.97	0.28	70,70,70,70	0
85	OHX	8	212	7/7	0.97	0.11	91,91,91,91	0
85	OHX	8	213	7/7	0.97	0.19	83,83,83,83	0
85	OHX	5	3908	7/7	0.97	0.25	84,84,84,84	0
85	OHX	8	216	7/7	0.97	0.27	86,86,86,86	0
85	OHX	1	3999	7/7	0.97	0.24	82,82,82,82	0
85	OHX	2	2014	7/7	0.97	0.18	89,89,89,89	0
85	OHX	1	3809	7/7	0.97	0.10	107,107,107,107	0
85	OHX	8	220	7/7	0.97	0.09	120,120,120,120	0
84	MG	5	3579	1/1	0.97	0.37	32,32,32,32	0
85	OHX	6	2092	7/7	0.97	0.18	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3657	1/1	0.97	0.33	50,50,50,50	0
85	OHX	5	3915	7/7	0.97	0.22	91,91,91,91	0
85	OHX	6	2094	7/7	0.97	0.20	96,96,96,96	0
85	OHX	5	3917	7/7	0.97	0.24	86,86,86,86	0
84	MG	5	3506	1/1	0.97	0.46	47,47,47,47	0
85	OHX	1	4005	7/7	0.97	0.24	95,95,95,95	0
85	OHX	1	3816	7/7	0.97	0.14	84,84,84,84	0
85	OHX	1	3817	7/7	0.97	0.18	75,75,75,75	0
85	OHX	5	3923	7/7	0.97	0.23	85,85,85,85	0
85	OHX	5	3924	7/7	0.97	0.27	77,77,77,77	0
85	OHX	5	3925	7/7	0.97	0.25	81,81,81,81	0
85	OHX	6	2099	7/7	0.97	0.27	95,95,95,95	0
85	OHX	5	3927	7/7	0.97	0.18	87,87,87,87	0
85	OHX	m5	304	7/7	0.97	0.12	74,74,74,74	0
85	OHX	1	4008	7/7	0.97	0.20	82,82,82,82	0
85	OHX	1	4009	7/7	0.97	0.23	83,83,83,83	0
85	OHX	q2	502	7/7	0.97	0.17	61,61,61,61	0
85	OHX	2	2018	7/7	0.97	0.14	106,106,106,106	0
86	ZN	E1	501	1/1	0.97	0.05	115,115,115,115	0
84	MG	5	3731	1/1	0.97	0.21	37,37,37,37	0
84	MG	1	3576	1/1	0.97	0.47	28,28,28,28	0
85	OHX	1	3924	7/7	0.97	0.25	76,76,76,76	0
84	MG	1	3716	1/1	0.97	0.07	33,33,33,33	0
84	MG	5	3567	1/1	0.97	0.38	30,30,30,30	0
85	OHX	2	1999	7/7	0.98	0.10	84,84,84,84	0
85	OHX	5	3841	7/7	0.98	0.08	97,97,97,97	0
85	OHX	5	3842	7/7	0.98	0.11	91,91,91,91	0
85	OHX	1	3777	7/7	0.98	0.09	84,84,84,84	0
85	OHX	5	3844	7/7	0.98	0.15	70,70,70,70	0
85	OHX	2	2031	7/7	0.98	0.17	95,95,95,95	0
84	MG	1	3686	1/1	0.98	0.07	37,37,37,37	0
85	OHX	2	2002	7/7	0.98	0.09	84,84,84,84	0
85	OHX	1	3848	7/7	0.98	0.15	90,90,90,90	0
84	MG	sM	202	1/1	0.98	0.08	43,43,43,43	0
85	OHX	5	3853	7/7	0.98	0.11	83,83,83,83	0
84	MG	5	3494	1/1	0.98	0.34	30,30,30,30	0
85	OHX	1	3786	7/7	0.98	0.09	101,101,101,101	0
85	OHX	2	2020	7/7	0.98	0.10	103,103,103,103	0
85	OHX	4	226	7/7	0.98	0.15	106,106,106,106	0
85	OHX	1	3853	7/7	0.98	0.14	93,93,93,93	0
85	OHX	5	3859	7/7	0.98	0.17	81,81,81,81	0
85	OHX	1	3854	7/7	0.98	0.18	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3861	7/7	0.98	0.09	103,103,103,103	0
85	OHX	1	3789	7/7	0.98	0.10	88,88,88,88	0
85	OHX	5	3863	7/7	0.98	0.24	86,86,86,86	0
85	OHX	1	3792	7/7	0.98	0.13	80,80,80,80	0
85	OHX	1	3857	7/7	0.98	0.21	79,79,79,79	0
85	OHX	1	3793	7/7	0.98	0.08	89,89,89,89	0
85	OHX	5	3868	7/7	0.98	0.09	96,96,96,96	0
85	OHX	2	2006	7/7	0.98	0.08	113,113,113,113	0
85	OHX	1	3796	7/7	0.98	0.09	79,79,79,79	0
85	OHX	6	2111	7/7	0.98	0.21	84,84,84,84	0
85	OHX	5	3872	7/7	0.98	0.19	65,65,65,65	0
85	OHX	2	2007	7/7	0.98	0.12	94,94,94,94	0
85	OHX	1	3798	7/7	0.98	0.11	75,75,75,75	0
85	OHX	M6	202	7/7	0.98	0.19	80,80,80,80	0
85	OHX	2	2088	7/7	0.98	0.19	94,94,94,94	0
85	OHX	5	3877	7/7	0.98	0.19	80,80,80,80	0
85	OHX	2	1994	7/7	0.98	0.11	99,99,99,99	0
85	OHX	1	3801	7/7	0.98	0.12	81,81,81,81	0
85	OHX	1	3804	7/7	0.98	0.10	88,88,88,88	0
85	OHX	O7	104	7/7	0.98	0.12	77,77,77,77	0
85	OHX	5	3882	7/7	0.98	0.26	67,67,67,67	0
85	OHX	O7	105	7/7	0.98	0.18	76,76,76,76	0
85	OHX	1	3805	7/7	0.98	0.13	72,72,72,72	0
85	OHX	6	2010	7/7	0.98	0.15	73,73,73,73	0
85	OHX	6	2016	7/7	0.98	0.13	71,71,71,71	0
85	OHX	6	2017	7/7	0.98	0.09	85,85,85,85	0
85	OHX	5	3888	7/7	0.98	0.22	91,91,91,91	0
85	OHX	6	2022	7/7	0.98	0.09	87,87,87,87	0
85	OHX	2	2024	7/7	0.98	0.19	89,89,89,89	0
85	OHX	6	2028	7/7	0.98	0.10	89,89,89,89	0
85	OHX	5	3892	7/7	0.98	0.20	80,80,80,80	0
85	OHX	6	2029	7/7	0.98	0.11	110,110,110,110	0
85	OHX	6	2030	7/7	0.98	0.18	74,74,74,74	0
85	OHX	6	2031	7/7	0.98	0.15	76,76,76,76	0
85	OHX	2	1986	7/7	0.98	0.10	81,81,81,81	0
85	OHX	1	3808	7/7	0.98	0.12	93,93,93,93	0
85	OHX	5	3898	7/7	0.98	0.19	80,80,80,80	0
85	OHX	6	2034	7/7	0.98	0.08	91,91,91,91	0
85	OHX	5	4035	7/7	0.98	0.18	63,63,63,63	0
85	OHX	6	2035	7/7	0.98	0.20	71,71,71,71	0
85	OHX	2	2010	7/7	0.98	0.19	88,88,88,88	0
85	OHX	1	3742	7/7	0.98	0.10	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	6	2039	7/7	0.98	0.12	83,83,83,83	0
85	OHX	1	3874	7/7	0.98	0.18	91,91,91,91	0
85	OHX	6	2041	7/7	0.98	0.13	74,74,74,74	0
85	OHX	1	3811	7/7	0.98	0.11	78,78,78,78	0
85	OHX	6	2043	7/7	0.98	0.18	77,77,77,77	0
85	OHX	6	2044	7/7	0.98	0.14	81,81,81,81	0
85	OHX	6	2046	7/7	0.98	0.10	95,95,95,95	0
85	OHX	1	3876	7/7	0.98	0.23	86,86,86,86	0
85	OHX	1	3747	7/7	0.98	0.10	64,64,64,64	0
85	OHX	1	3878	7/7	0.98	0.18	88,88,88,88	0
85	OHX	6	2050	7/7	0.98	0.15	92,92,92,92	0
85	OHX	1	3750	7/7	0.98	0.11	76,76,76,76	0
85	OHX	1	3880	7/7	0.98	0.20	89,89,89,89	0
85	OHX	6	2053	7/7	0.98	0.17	84,84,84,84	0
85	OHX	1	3814	7/7	0.98	0.16	71,71,71,71	0
85	OHX	6	2055	7/7	0.98	0.10	95,95,95,95	0
85	OHX	6	2056	7/7	0.98	0.17	82,82,82,82	0
85	OHX	1	3751	7/7	0.98	0.10	67,67,67,67	0
85	OHX	1	3755	7/7	0.98	0.14	67,67,67,67	0
85	OHX	1	3819	7/7	0.98	0.09	90,90,90,90	0
85	OHX	1	3885	7/7	0.98	0.24	78,78,78,78	0
85	OHX	2	2011	7/7	0.98	0.18	98,98,98,98	0
85	OHX	1	3757	7/7	0.98	0.10	70,70,70,70	0
85	OHX	1	3759	7/7	0.98	0.11	79,79,79,79	0
85	OHX	1	3825	7/7	0.98	0.16	83,83,83,83	0
85	OHX	5	3929	7/7	0.98	0.20	76,76,76,76	0
85	OHX	1	3762	7/7	0.98	0.08	66,66,66,66	0
85	OHX	6	2066	7/7	0.98	0.17	83,83,83,83	0
85	OHX	1	3827	7/7	0.98	0.20	72,72,72,72	0
84	MG	1	3635	1/1	0.98	0.23	41,41,41,41	0
85	OHX	1	3767	7/7	0.98	0.09	69,69,69,69	0
85	OHX	1	3830	7/7	0.98	0.12	86,86,86,86	0
85	OHX	7	211	7/7	0.98	0.08	74,74,74,74	0
85	OHX	7	212	7/7	0.98	0.16	70,70,70,70	0
85	OHX	5	3773	7/7	0.98	0.12	64,64,64,64	0
85	OHX	7	214	7/7	0.98	0.17	71,71,71,71	0
85	OHX	7	215	7/7	0.98	0.10	82,82,82,82	0
85	OHX	7	216	7/7	0.98	0.13	87,87,87,87	0
85	OHX	5	3775	7/7	0.98	0.10	60,60,60,60	0
85	OHX	5	3783	7/7	0.98	0.08	77,77,77,77	0
85	OHX	6	2071	7/7	0.98	0.19	79,79,79,79	0
85	OHX	1	3895	7/7	0.98	0.23	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3787	7/7	0.98	0.09	63,63,63,63	0
85	OHX	1	3963	7/7	0.98	0.23	88,88,88,88	0
85	OHX	5	3793	7/7	0.98	0.08	87,87,87,87	0
85	OHX	8	214	7/7	0.98	0.11	102,102,102,102	0
85	OHX	5	3794	7/7	0.98	0.10	69,69,69,69	0
85	OHX	1	3831	7/7	0.98	0.17	86,86,86,86	0
85	OHX	1	3832	7/7	0.98	0.21	75,75,75,75	0
85	OHX	6	2076	7/7	0.98	0.22	81,81,81,81	0
85	OHX	1	3768	7/7	0.98	0.08	83,83,83,83	0
85	OHX	1	3834	7/7	0.98	0.10	99,99,99,99	0
85	OHX	5	3803	7/7	0.98	0.10	63,63,63,63	0
85	OHX	5	3804	7/7	0.98	0.12	63,63,63,63	0
85	OHX	5	3806	7/7	0.98	0.09	74,74,74,74	0
85	OHX	5	3807	7/7	0.98	0.10	74,74,74,74	0
85	OHX	5	3809	7/7	0.98	0.12	88,88,88,88	0
85	OHX	l3	406	7/7	0.98	0.16	79,79,79,79	0
85	OHX	1	3769	7/7	0.98	0.10	63,63,63,63	0
85	OHX	5	3813	7/7	0.98	0.10	81,81,81,81	0
85	OHX	2	1989	7/7	0.98	0.08	92,92,92,92	0
85	OHX	1	3771	7/7	0.98	0.10	76,76,76,76	0
85	OHX	6	2082	7/7	0.98	0.19	91,91,91,91	0
85	OHX	1	3838	7/7	0.98	0.24	68,68,68,68	0
85	OHX	5	3820	7/7	0.98	0.12	81,81,81,81	0
85	OHX	3	210	7/7	0.98	0.10	77,77,77,77	0
85	OHX	5	3822	7/7	0.98	0.18	64,64,64,64	0
85	OHX	5	3823	7/7	0.98	0.15	76,76,76,76	0
85	OHX	3	211	7/7	0.98	0.20	85,85,85,85	0
85	OHX	m5	305	7/7	0.98	0.18	94,94,94,94	0
85	OHX	1	3904	7/7	0.98	0.14	82,82,82,82	0
85	OHX	n3	203	7/7	0.98	0.20	76,76,76,76	0
85	OHX	o3	202	7/7	0.98	0.20	82,82,82,82	0
85	OHX	5	3828	7/7	0.98	0.22	73,73,73,73	0
85	OHX	5	3830	7/7	0.98	0.16	64,64,64,64	0
85	OHX	5	3831	7/7	0.98	0.13	77,77,77,77	0
85	OHX	1	3773	7/7	0.98	0.09	73,73,73,73	0
85	OHX	5	3834	7/7	0.98	0.13	79,79,79,79	0
86	ZN	d6	101	1/1	0.98	0.04	60,60,60,60	0
85	OHX	1	3774	7/7	0.98	0.09	74,74,74,74	0
85	OHX	1	3841	7/7	0.98	0.17	62,62,62,62	0
85	OHX	1	3908	7/7	0.98	0.16	103,103,103,103	0
85	OHX	1	3775	7/7	0.98	0.09	83,83,83,83	0
85	OHX	5	3847	7/7	0.99	0.15	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3848	7/7	0.99	0.19	80,80,80,80	0
85	OHX	1	3746	7/7	0.99	0.07	65,65,65,65	0
85	OHX	2	1996	7/7	0.99	0.10	83,83,83,83	0
85	OHX	5	3851	7/7	0.99	0.10	52,52,52,52	0
85	OHX	1	3794	7/7	0.99	0.08	62,62,62,62	0
85	OHX	1	3748	7/7	0.99	0.09	72,72,72,72	0
85	OHX	1	3749	7/7	0.99	0.10	67,67,67,67	0
85	OHX	2	2004	7/7	0.99	0.09	86,86,86,86	0
85	OHX	2	1987	7/7	0.99	0.09	74,74,74,74	0
85	OHX	1	3753	7/7	0.99	0.07	67,67,67,67	0
85	OHX	1	3754	7/7	0.99	0.08	63,63,63,63	0
85	OHX	2	1992	7/7	0.99	0.07	89,89,89,89	0
85	OHX	1	3802	7/7	0.99	0.15	75,75,75,75	0
85	OHX	1	3803	7/7	0.99	0.18	74,74,74,74	0
85	OHX	N1	201	7/7	0.99	0.06	59,59,59,59	0
85	OHX	2	1984	7/7	0.99	0.10	78,78,78,78	0
85	OHX	N9	101	7/7	0.99	0.08	56,56,56,56	0
85	OHX	5	3865	7/7	0.99	0.12	87,87,87,87	0
85	OHX	2	2043	7/7	0.99	0.18	89,89,89,89	0
85	OHX	1	3758	7/7	0.99	0.06	67,67,67,67	0
84	MG	5	3634	1/1	0.99	0.06	31,31,31,31	0
85	OHX	1	3760	7/7	0.99	0.10	68,68,68,68	0
85	OHX	Q2	503	7/7	0.99	0.20	59,59,59,59	0
85	OHX	1	3861	7/7	0.99	0.16	67,67,67,67	0
85	OHX	6	2011	7/7	0.99	0.08	61,61,61,61	0
85	OHX	6	2012	7/7	0.99	0.08	67,67,67,67	0
85	OHX	5	4011	7/7	0.99	0.20	63,63,63,63	0
85	OHX	6	2013	7/7	0.99	0.09	70,70,70,70	0
85	OHX	6	2014	7/7	0.99	0.08	62,62,62,62	0
85	OHX	6	2015	7/7	0.99	0.11	75,75,75,75	0
85	OHX	1	3761	7/7	0.99	0.06	60,60,60,60	0
85	OHX	5	3742	7/7	0.99	0.13	46,46,46,46	0
85	OHX	5	3743	7/7	0.99	0.10	43,43,43,43	0
85	OHX	5	3745	7/7	0.99	0.07	43,43,43,43	0
85	OHX	5	3746	7/7	0.99	0.12	54,54,54,54	0
85	OHX	5	3747	7/7	0.99	0.11	53,53,53,53	0
85	OHX	5	3748	7/7	0.99	0.07	55,55,55,55	0
85	OHX	5	3749	7/7	0.99	0.10	52,52,52,52	0
85	OHX	5	3750	7/7	0.99	0.09	54,54,54,54	0
85	OHX	5	3751	7/7	0.99	0.09	52,52,52,52	0
85	OHX	5	3753	7/7	0.99	0.12	68,68,68,68	0
85	OHX	5	3754	7/7	0.99	0.06	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3755	7/7	0.99	0.07	50,50,50,50	0
85	OHX	5	3756	7/7	0.99	0.06	60,60,60,60	0
85	OHX	5	3757	7/7	0.99	0.07	58,58,58,58	0
85	OHX	5	3758	7/7	0.99	0.09	55,55,55,55	0
85	OHX	5	3759	7/7	0.99	0.07	62,62,62,62	0
85	OHX	5	3760	7/7	0.99	0.07	56,56,56,56	0
85	OHX	5	3761	7/7	0.99	0.05	55,55,55,55	0
85	OHX	5	3762	7/7	0.99	0.08	63,63,63,63	0
85	OHX	5	3763	7/7	0.99	0.08	61,61,61,61	0
85	OHX	5	3764	7/7	0.99	0.06	57,57,57,57	0
85	OHX	5	3765	7/7	0.99	0.06	59,59,59,59	0
85	OHX	5	3766	7/7	0.99	0.07	63,63,63,63	0
85	OHX	5	3767	7/7	0.99	0.09	63,63,63,63	0
85	OHX	5	3768	7/7	0.99	0.07	58,58,58,58	0
85	OHX	5	3769	7/7	0.99	0.07	52,52,52,52	0
85	OHX	2	2001	7/7	0.99	0.08	83,83,83,83	0
85	OHX	5	3771	7/7	0.99	0.06	66,66,66,66	0
85	OHX	5	3772	7/7	0.99	0.08	61,61,61,61	0
85	OHX	6	2018	7/7	0.99	0.08	60,60,60,60	0
85	OHX	5	3774	7/7	0.99	0.08	53,53,53,53	0
85	OHX	6	2019	7/7	0.99	0.10	77,77,77,77	0
85	OHX	5	3776	7/7	0.99	0.10	86,86,86,86	0
85	OHX	5	3777	7/7	0.99	0.07	59,59,59,59	0
85	OHX	5	3778	7/7	0.99	0.07	64,64,64,64	0
85	OHX	5	3779	7/7	0.99	0.08	65,65,65,65	0
85	OHX	5	3780	7/7	0.99	0.07	59,59,59,59	0
85	OHX	5	3781	7/7	0.99	0.11	65,65,65,65	0
85	OHX	5	3782	7/7	0.99	0.09	76,76,76,76	0
85	OHX	6	2020	7/7	0.99	0.06	69,69,69,69	0
85	OHX	6	2021	7/7	0.99	0.06	74,74,74,74	0
85	OHX	5	3785	7/7	0.99	0.09	68,68,68,68	0
85	OHX	5	3920	7/7	0.99	0.14	73,73,73,73	0
85	OHX	1	3763	7/7	0.99	0.07	68,68,68,68	0
85	OHX	6	2023	7/7	0.99	0.07	71,71,71,71	0
85	OHX	6	2024	7/7	0.99	0.06	71,71,71,71	0
85	OHX	5	3789	7/7	0.99	0.07	59,59,59,59	0
85	OHX	5	3790	7/7	0.99	0.08	58,58,58,58	0
85	OHX	5	3791	7/7	0.99	0.07	73,73,73,73	0
85	OHX	5	3792	7/7	0.99	0.09	81,81,81,81	0
85	OHX	6	2025	7/7	0.99	0.09	73,73,73,73	0
85	OHX	6	2026	7/7	0.99	0.08	71,71,71,71	0
85	OHX	1	3764	7/7	0.99	0.16	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	5	3931	7/7	0.99	0.18	68,68,68,68	0
85	OHX	2	1983	7/7	0.99	0.11	75,75,75,75	0
85	OHX	5	3797	7/7	0.99	0.14	57,57,57,57	0
85	OHX	5	3798	7/7	0.99	0.07	80,80,80,80	0
85	OHX	1	3766	7/7	0.99	0.07	76,76,76,76	0
85	OHX	1	3815	7/7	0.99	0.16	71,71,71,71	0
85	OHX	5	3801	7/7	0.99	0.10	69,69,69,69	0
85	OHX	1	3726	7/7	0.99	0.10	43,43,43,43	0
85	OHX	1	3727	7/7	0.99	0.10	52,52,52,52	0
85	OHX	1	3818	7/7	0.99	0.19	58,58,58,58	0
85	OHX	5	3805	7/7	0.99	0.13	73,73,73,73	0
85	OHX	1	3729	7/7	0.99	0.10	53,53,53,53	0
85	OHX	1	3730	7/7	0.99	0.14	55,55,55,55	0
85	OHX	8	211	7/7	0.99	0.07	55,55,55,55	0
85	OHX	5	3808	7/7	0.99	0.12	67,67,67,67	0
85	OHX	1	3821	7/7	0.99	0.14	77,77,77,77	0
85	OHX	1	3731	7/7	0.99	0.09	50,50,50,50	0
85	OHX	5	3811	7/7	0.99	0.13	73,73,73,73	0
85	OHX	5	3812	7/7	0.99	0.09	74,74,74,74	0
85	OHX	5	3949	7/7	0.99	0.19	63,63,63,63	0
85	OHX	6	2038	7/7	0.99	0.11	71,71,71,71	0
85	OHX	5	3814	7/7	0.99	0.08	84,84,84,84	0
85	OHX	5	3815	7/7	0.99	0.15	68,68,68,68	0
85	OHX	1	3772	7/7	0.99	0.07	74,74,74,74	0
85	OHX	1	3824	7/7	0.99	0.12	56,56,56,56	0
85	OHX	1	3732	7/7	0.99	0.10	57,57,57,57	0
85	OHX	1	3733	7/7	0.99	0.07	47,47,47,47	0
85	OHX	1	3734	7/7	0.99	0.08	56,56,56,56	0
85	OHX	1	3735	7/7	0.99	0.08	54,54,54,54	0
85	OHX	6	2045	7/7	0.99	0.10	87,87,87,87	0
85	OHX	1	3736	7/7	0.99	0.08	63,63,63,63	0
85	OHX	1	3737	7/7	0.99	0.05	56,56,56,56	0
85	OHX	5	3825	7/7	0.99	0.14	68,68,68,68	0
85	OHX	5	3826	7/7	0.99	0.11	62,62,62,62	0
85	OHX	1	3779	7/7	0.99	0.11	71,71,71,71	0
85	OHX	1	3738	7/7	0.99	0.06	56,56,56,56	0
85	OHX	5	3829	7/7	0.99	0.12	68,68,68,68	0
85	OHX	1	3739	7/7	0.99	0.05	62,62,62,62	0
85	OHX	1	3782	7/7	0.99	0.07	77,77,77,77	0
85	OHX	4	215	7/7	0.99	0.07	54,54,54,54	0
85	OHX	5	3833	7/7	0.99	0.08	61,61,61,61	0
85	OHX	4	216	7/7	0.99	0.06	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
85	OHX	n3	202	7/7	0.99	0.09	72,72,72,72	0
85	OHX	5	3835	7/7	0.99	0.14	73,73,73,73	0
85	OHX	n9	102	7/7	0.99	0.10	59,59,59,59	0
85	OHX	4	217	7/7	0.99	0.08	68,68,68,68	0
85	OHX	o7	502	7/7	0.99	0.13	79,79,79,79	0
85	OHX	1	3740	7/7	0.99	0.09	60,60,60,60	0
85	OHX	1	3741	7/7	0.99	0.08	55,55,55,55	0
86	ZN	D6	500	1/1	0.99	0.03	81,81,81,81	0
85	OHX	1	3785	7/7	0.99	0.09	66,66,66,66	0
86	ZN	D9	101	1/1	0.99	0.03	79,79,79,79	0
85	OHX	2	2019	7/7	0.99	0.16	87,87,87,87	0
86	ZN	Q0	500	1/1	0.99	0.03	48,48,48,48	0
85	OHX	1	3787	7/7	0.99	0.09	73,73,73,73	0
86	ZN	Q3	501	1/1	0.99	0.03	58,58,58,58	0
85	OHX	1	3743	7/7	0.99	0.09	60,60,60,60	0
85	OHX	1	3745	7/7	0.99	0.10	66,66,66,66	0
86	ZN	d9	101	1/1	0.99	0.04	86,86,86,86	0
85	OHX	1	3948	7/7	0.99	0.19	70,70,70,70	0
85	OHX	1	3790	7/7	0.99	0.12	72,72,72,72	0
86	ZN	q3	501	1/1	0.99	0.03	57,57,57,57	0
85	OHX	1	3791	7/7	0.99	0.09	73,73,73,73	0
85	OHX	1	3744	7/7	1.00	0.06	54,54,54,54	0
85	OHX	1	3728	7/7	1.00	0.08	44,44,44,44	0
85	OHX	5	3744	7/7	1.00	0.10	40,40,40,40	0
86	ZN	O7	101	1/1	1.00	0.02	42,42,42,42	0
86	ZN	o7	501	1/1	1.00	0.02	45,45,45,45	0
86	ZN	q0	201	1/1	1.00	0.02	36,36,36,36	0
85	OHX	6	2009	7/7	1.00	0.10	57,57,57,57	0
85	OHX	1	3752	7/7	1.00	0.05	59,59,59,59	0
85	OHX	5	3752	7/7	1.00	0.06	40,40,40,40	0

6.5 Other polymers ⓘ

There are no such residues in this entry.