



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 27, 2026 – 05:22 AM UTC

PDB ID : 8P9A / pdb_00008p9a
Title : 80S yeast ribosome in complex with Methyllissoclimide
Authors : Terrosu, S.; Yusupov, M.; Vanderwal, C.
Deposited on : 2023-06-05
Resolution : 2.90 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

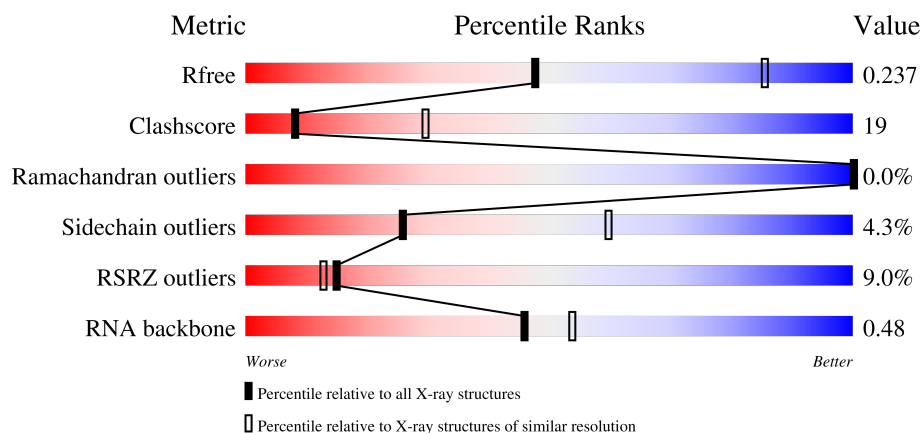
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)
RNA backbone	3983	1120 (3.10-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	3149	2% 45% 45% 10%
1	AR	3149	2% 46% 43% 10%
2	3	121	53% 41% 6%
2	AS	121	2% 45% 50% 5%

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Mol	Chain	Length	Quality of chain
3	4	158	
3	AT	158	
4	CD	254	
4	j	254	
5	CE	387	
5	k	387	
6	CF	362	
6	l	362	
7	CG	297	
7	m	297	
8	CH	176	
8	n	176	
9	CI	244	
9	o	244	
10	CJ	256	
10	p	256	
11	CK	191	
11	q	191	
12	CL	221	
12	r	221	
13	CM	174	
13	s	174	
14	CN	199	
14	t	199	
15	CO	138	

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Mol	Chain	Length	Quality of chain
15	u	138	
16	CP	204	
16	v	204	
17	CQ	199	
17	w	199	
18	CR	184	
18	x	184	
19	CS	186	
19	y	186	
20	CT	189	
20	z	189	
21	0	172	
21	CU	172	
22	2	160	
22	CV	160	
23	5	121	
23	CW	121	
24	6	137	
24	CX	137	
25	7	155	
25	CY	155	
26	8	142	
26	CZ	142	
27	9	127	
27	DA	127	

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Mol	Chain	Length	Quality of chain
28	AA	136	
28	DB	136	
29	AB	149	
29	DC	149	
30	AC	59	
30	DD	59	
31	AD	105	
31	DE	105	
32	AE	113	
32	DF	113	
33	AF	130	
33	DG	130	
34	AG	107	
34	DH	107	
35	AH	121	
35	DI	121	
36	AI	120	
36	DJ	120	
37	AJ	100	
37	DK	100	
38	AK	88	
38	DL	88	
39	AL	78	
39	DM	78	
40	AM	51	

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Mol	Chain	Length	Quality of chain
40	DN	51	
41	AN	128	
41	DO	128	
42	AO	25	
42	DP	25	
43	AP	106	
43	DQ	106	
44	AQ	92	
44	DR	92	
45	i	273	
45	sM	273	
46	p0	312	
47	A	1800	
47	sR	1800	
48	B	252	
48	s0	252	
49	C	255	
49	s1	255	
50	D	254	
50	s2	254	
51	E	240	
51	s3	240	
52	F	261	
52	s4	261	
53	G	225	

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Mol	Chain	Length	Quality of chain
53	s5	225	
54	H	236	
54	s6	236	
55	I	190	
55	s7	190	
56	J	200	
56	s8	200	
57	K	197	
57	s9	197	
58	L	105	
58	c0	105	
59	M	156	
59	c1	156	
60	N	143	
61	O	151	
61	c3	151	
62	P	138	
62	c4	138	
63	Q	142	
63	c5	142	
64	R	143	
64	c6	143	
65	S	136	
65	c7	136	
66	T	146	

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Mol	Chain	Length	Quality of chain
66	c8	146	
67	U	144	
67	c9	144	
68	V	121	
68	d0	121	
69	W	87	
69	d1	87	
70	X	130	
70	d2	130	
71	Y	145	
71	d3	145	
72	Z	135	
72	d4	135	
73	a	108	
73	d5	108	
74	b	119	
74	d6	119	
75	c	82	
75	d7	82	
76	d	67	
76	d8	67	
77	d9	56	
77	e	56	
78	e0	63	
78	f	63	

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Mol	Chain	Length	Quality of chain
79	e1	152	
79	g	152	
80	Rb	319	
80	h	319	

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
81	OHX	1	4090	-	-	X	-
81	OHX	1	4105	-	-	X	-
81	OHX	AR	3425	-	-	X	-
81	OHX	AR	3478[B]	-	-	X	-
81	OHX	AR	3502	-	-	X	-
81	OHX	AR	3539	-	-	X	-
81	OHX	AR	3671	-	-	X	-
81	OHX	AR	4202	-	-	-	X
81	OHX	AS	3501	-	-	X	-
81	OHX	CL	301	-	-	X	-
81	OHX	sR	2022	-	-	X	-
82	MG	1	3867	-	-	-	X
82	MG	1	3992	-	-	-	X
82	MG	1	4039	-	-	-	X
82	MG	A	2001	-	-	-	X
82	MG	A	2096	-	-	-	X
82	MG	AR	3768	-	-	-	X
82	MG	AR	3865	-	-	-	X
82	MG	AR	3952	-	-	-	X
82	MG	AR	4013	-	-	-	X
82	MG	AR	4097	-	-	-	X
82	MG	AR	4162	-	-	-	X
82	MG	AT	205	-	-	-	X
82	MG	s8	301	-	-	-	X
82	MG	s9	201	-	-	-	X
82	MG	x	202	-	-	-	X

2 Entry composition [i](#)

There are 86 unique types of molecules in this entry. The entry contains 405377 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
1	AR	3130	Total	C	N	O	P	0	0	0
			66954	29906	12075	21843	3130			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
3	AT	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	j	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
4	CD	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	k	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
5	CE	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	l	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
6	CF	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	m	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
7	CG	292	Total	C	N	O	S	0	0	0
			2348	1486	408	452	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	n	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
8	CH	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	o	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
9	CI	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	p	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CJ	226	Total	C	N	O	S	0	0	0
			1757	1125	314	315	3			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	r	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
12	CL	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			

- Molecule 13 is a protein called Large ribosomal subunit protein uL5B.

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	t	193	Total	C	N	O	0	0	0
			1543	962	315	266			
14	CN	193	Total	C	N	O	0	0	0
			1543	962	315	266			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	u	136	Total	C	N	O	0	0	0
			1053	675	199	177			
15	CO	136	Total	C	N	O	0	0	0
			1053	675	199	177			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	x	183	Total	C	N	O	S	0	0	0
			1420	882	281	257				
18	CR	155	Total	C	N	O	S	0	0	0
			1227	764	238	225				

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	z	177	Total	C	N	O	S	0	0	0
			1432	881	310	241				
20	CT	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	2	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
22	CV	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	5	100	Total	C	N	O		0	0	0
			796	516	131	149				
23	CW	100	Total	C	N	O		0	0	0
			796	516	131	149				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	6	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
24	CX	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	7	65	Total	C	N	O	S	0	0	0
			533	343	104	85	1			
25	CY	111	Total	C	N	O	S	0	0	0
			769	485	153	130	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	8	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	CZ	117	Total	C	N	O	S	0	0	0
			937	602	164	169	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	9	126	Total	C	N	O		0	0	0
			993	625	192	176				
27	DA	124	Total	C	N	O		0	0	0
			976	614	190	172				

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AD	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
31	DE	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AE	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
32	DF	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	AG	106	Total	C	N	O	S	0	0	0
			844	537	162	144	1			
34	DH	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	AH	111	Total	C	N	O	S	0	0	0
			871	539	177	151	4			
35	DI	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	96	Total	C	N	O	S	0	0	0
			739	463	145	129	2			
37	DK	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	AK	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
38	DL	86	Total	C	N	O	S	0	0	0
			676	411	147	113	5			

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

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

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

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

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

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

- Molecule 42 is a protein called Large ribosomal subunit protein eL41B.

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

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

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

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

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

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

- Molecule 45 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	i	142	Total	C	N	O		0	0	0
			1017	599	204	214				
45	sM	63	Total	C	N	O		0	0	0
			475	280	99	96				

- Molecule 46 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	p0	126	Total	C	N	O	S	0	0	0
			992	636	175	178	3			

- Molecule 47 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	A	1741	Total	C	N	O	P	0	0	0
			37101	16586	6569	12205	1741			
47	sR	1783	Total	C	N	O	P	0	0	0
			37990	16984	6723	12500	1783			

- Molecule 48 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B	206	Total	C	N	O	S	0	0	0
			1562	1006	273	281	2			
48	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 49 is a protein called 40S ribosomal protein S1-A.

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

- Molecule 50 is a protein called 40S ribosomal protein S2.

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

- Molecule 51 is a protein called Small ribosomal subunit protein uS3.

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

- Molecule 52 is a protein called 40S ribosomal protein S4-A.

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

- Molecule 53 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	G	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	s5	198	Total	C	N	O	S	0	0	0
			1561	981	286	291	3			

- Molecule 54 is a protein called 40S ribosomal protein S6-A.

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

- Molecule 55 is a protein called 40S ribosomal protein S7-A.

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

- Molecule 56 is a protein called 40S ribosomal protein S8-A.

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

- Molecule 57 is a protein called 40S ribosomal protein S9-A.

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

- Molecule 58 is a protein called 40S ribosomal protein S10-A.

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

- Molecule 59 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	M	142	Total	C	N	O	S	0	0	0
			1149	736	217	193	3			
59	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 60 is a protein called 40S ribosomal protein S12.

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

- Molecule 61 is a protein called 40S ribosomal protein S13.

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

- Molecule 62 is a protein called 40S ribosomal protein S14-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	P	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
62	c4	127	Total	C	N	O	S	0	0	0
			940	577	186	174	3			

- Molecule 63 is a protein called 40S ribosomal protein S15.

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

- Molecule 64 is a protein called 40S ribosomal protein S16-A.

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

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

- Molecule 65 is a protein called 40S ribosomal protein S17-A.

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

- Molecule 66 is a protein called 40S ribosomal protein S18-A.

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

- Molecule 67 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 68 is a protein called Small ribosomal subunit protein uS10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	V	96	Total	C	N	O	S	0	0	0
			765	481	139	144	1			
68	d0	89	Total	C	N	O	S	0	0	0
			715	451	131	132	1			

- Molecule 69 is a protein called 40S ribosomal protein S21-A.

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

- Molecule 70 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 71 is a protein called 40S ribosomal protein S23-A.

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

- Molecule 72 is a protein called 40S ribosomal protein S24-A.

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

- Molecule 73 is a protein called 40S ribosomal protein S25-A.

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

- Molecule 74 is a protein called Small ribosomal subunit protein eS26B.

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

- Molecule 75 is a protein called 40S ribosomal protein S27-A.

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

- Molecule 76 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 77 is a protein called Small ribosomal subunit protein uS14A.

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

- Molecule 78 is a protein called 40S ribosomal protein S30-A.

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

- Molecule 79 is a protein called Ubiquitin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	g	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
79	e1	51	Total	C	N	O		0	0	0
			251	149	51	51				

- Molecule 80 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

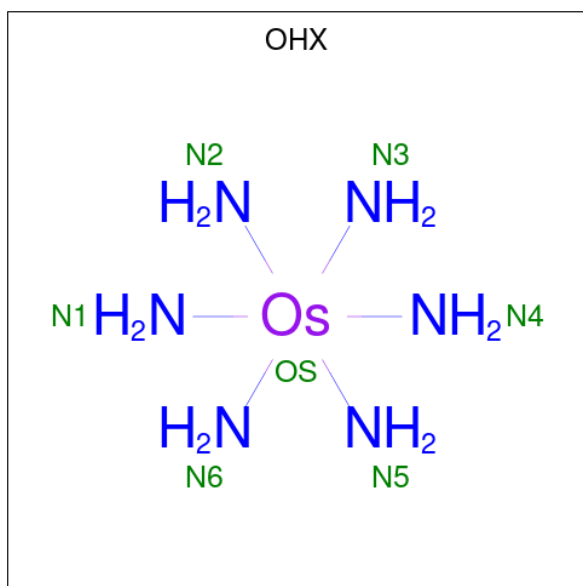
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	h	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	Rb	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 81 is osmium (III) hexammine (CCD ID: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			12	10	2		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			14	12	2		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			14	12	2		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			14	12	2		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			14	12	2		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	1
			14	12	2		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			6	5	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			6	5	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
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81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	1	1	Total	N	Os	0	0
			7	6	1		
81	3	1	Total	N	Os	0	0
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81	3	1	Total	N	Os	0	0
			7	6	1		
81	3	1	Total	N	Os	0	0
			7	6	1		
81	3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	3	1	Total	N	Os	0	0
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81	3	1	Total	N	Os	0	0
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81	3	1	Total	N	Os	0	0
			7	6	1		
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81	4	1	Total	N	Os	0	0
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81	4	1	Total	N	Os	0	0
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81	4	1	Total	N	Os	0	0
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81	4	1	Total	N	Os	0	0
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			7	6	1		
81	4	1	Total	N	Os	0	0
			7	6	1		
81	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	4	1	Total	N	Os	0	0
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81	k	1	Total	N	Os	0	0
			7	6	1		
81	l	1	Total	N	Os	0	0
			7	6	1		
81	r	1	Total	N	Os	0	0
			7	6	1		
81	v	1	Total	N	Os	0	0
			7	6	1		
81	x	1	Total	N	Os	0	0
			7	6	1		
81	z	1	Total	N	Os	0	0
			7	6	1		
81	z	1	Total	N	Os	0	0
			7	6	1		
81	AC	1	Total	N	Os	0	0
			7	6	1		
81	AG	1	Total	N	Os	0	0
			7	6	1		
81	AK	1	Total	N	Os	0	0
			7	6	1		
81	AP	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		

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

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
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			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	1
			14	12	2		
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			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AR	1	Total	N	Os	0	0
			7	6	1		

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

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

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

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

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

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

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	1
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81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
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81	AR	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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81	CE	1	Total	N	Os	0	0
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81	CE	1	Total	N	Os	0	0
			7	6	1		
81	CG	1	Total	N	Os	0	0
			6	5	1		
81	CG	1	Total	N	Os	0	0
			7	6	1		
81	CG	1	Total	N	Os	0	0
			7	6	1		
81	CK	1	Total	N	Os	0	0
			7	6	1		
81	CL	1	Total	N	Os	0	0
			7	6	1		
81	CL	1	Total	N	Os	0	1
			14	12	2		
81	CP	1	Total	N	Os	0	0
			7	6	1		
81	CP	1	Total	N	Os	0	0
			7	6	1		
81	CQ	1	Total	N	Os	0	0
			7	6	1		
81	CS	1	Total	N	Os	0	0
			7	6	1		
81	CX	1	Total	N	Os	0	0
			7	6	1		
81	CX	1	Total	N	Os	0	0
			7	6	1		
81	DD	1	Total	N	Os	0	0
			7	6	1		
81	DK	1	Total	N	Os	0	0
			7	6	1		
81	DL	1	Total	N	Os	0	0
			7	6	1		
81	DQ	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		

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

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

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			6	5	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	A	1	Total	N	Os	0	0
			7	6	1		
81	J	1	Total	N	Os	0	0
			7	6	1		
81	O	1	Total	N	Os	0	0
			7	6	1		
81	Q	1	Total	N	Os	0	0
			7	6	1		
81	S	1	Total	N	Os	0	0
			7	6	1		
81	T	1	Total	N	Os	0	0
			7	6	1		
81	U	1	Total	N	Os	0	0
			7	6	1		
81	e	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	sR	1	Total	N	Os	0	0
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81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
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81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	1
			14	12	2		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		

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

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

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

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	s1	1	Total	N	Os	0	0
			7	6	1		
81	s4	1	Total	N	Os	0	0
			7	6	1		
81	s8	1	Total	N	Os	0	0
			7	6	1		
81	c3	1	Total	N	Os	0	0
			7	6	1		
81	c5	1	Total	N	Os	0	0
			7	6	1		
81	c8	1	Total	N	Os	0	0
			7	6	1		
81	d0	1	Total	N	Os	0	0
			7	6	1		

- Molecule 82 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
82	1	476	Total	Mg	0	0
			476	476		
82	3	11	Total	Mg	0	0
			11	11		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
82	4	20	Total 20	Mg 20	0	0
82	j	3	Total 3	Mg 3	0	0
82	k	1	Total 1	Mg 1	0	0
82	l	3	Total 3	Mg 3	0	0
82	n	1	Total 1	Mg 1	0	0
82	o	1	Total 1	Mg 1	0	0
82	r	3	Total 3	Mg 3	0	0
82	s	1	Total 1	Mg 1	0	0
82	t	3	Total 3	Mg 3	0	0
82	v	3	Total 3	Mg 3	0	0
82	w	1	Total 1	Mg 1	0	0
82	x	8	Total 8	Mg 8	0	0
82	z	1	Total 1	Mg 1	0	0
82	6	3	Total 3	Mg 3	0	0
82	AB	5	Total 5	Mg 5	0	0
82	AF	4	Total 4	Mg 4	0	0
82	AG	2	Total 2	Mg 2	0	0
82	AK	1	Total 1	Mg 1	0	0
82	AR	519	Total 519	Mg 519	0	0
82	AS	20	Total 20	Mg 20	0	0
82	AT	17	Total 17	Mg 17	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
82	CD	3	Total 3	Mg 3	0	0
82	CE	6	Total 6	Mg 6	0	0
82	CF	2	Total 2	Mg 2	0	0
82	CG	1	Total 1	Mg 1	0	0
82	CI	3	Total 3	Mg 3	0	0
82	CK	1	Total 1	Mg 1	0	0
82	CL	1	Total 1	Mg 1	0	0
82	CM	2	Total 2	Mg 2	0	0
82	CO	1	Total 1	Mg 1	0	0
82	CP	3	Total 3	Mg 3	0	0
82	CQ	4	Total 4	Mg 4	0	0
82	CR	5	Total 5	Mg 5	0	0
82	CU	1	Total 1	Mg 1	0	0
82	CX	1	Total 1	Mg 1	0	0
82	CY	1	Total 1	Mg 1	0	0
82	DA	2	Total 2	Mg 2	0	0
82	DC	3	Total 3	Mg 3	0	0
82	DF	1	Total 1	Mg 1	0	0
82	DH	2	Total 2	Mg 2	0	0
82	DI	1	Total 1	Mg 1	0	0
82	DL	1	Total 1	Mg 1	0	0

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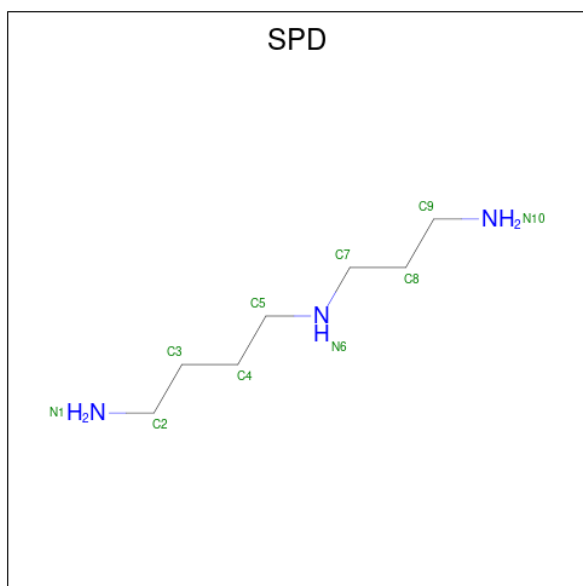
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
82	DO	1	Total 1	Mg 1	0	0
82	DP	1	Total 1	Mg 1	0	0
82	DQ	2	Total 2	Mg 2	0	0
82	sM	2	Total 2	Mg 2	0	0
82	A	132	Total 132	Mg 132	0	0
82	F	1	Total 1	Mg 1	0	0
82	H	1	Total 1	Mg 1	0	0
82	O	1	Total 1	Mg 1	0	0
82	P	1	Total 1	Mg 1	0	0
82	X	1	Total 1	Mg 1	0	0
82	Y	1	Total 1	Mg 1	0	0
82	b	1	Total 1	Mg 1	0	0
82	sR	144	Total 144	Mg 144	0	0
82	s1	1	Total 1	Mg 1	0	0
82	s2	1	Total 1	Mg 1	0	0
82	s4	1	Total 1	Mg 1	0	0
82	s8	2	Total 2	Mg 2	0	0
82	s9	1	Total 1	Mg 1	0	0
82	c1	1	Total 1	Mg 1	0	0
82	c4	2	Total 2	Mg 2	0	0
82	c6	2	Total 2	Mg 2	0	0

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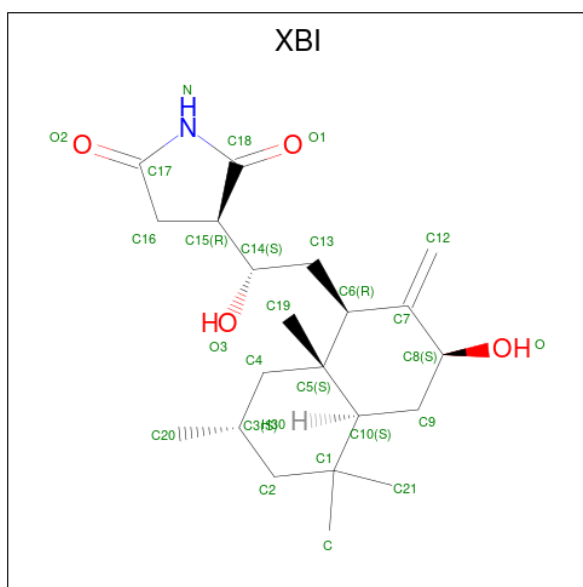
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
82	c8	1	Total	Mg	0	0
			1	1		
82	c9	1	Total	Mg	0	0
			1	1		
82	d3	4	Total	Mg	0	0
			4	4		
82	d4	3	Total	Mg	0	0
			3	3		
82	d6	2	Total	Mg	0	0
			2	2		
82	d9	1	Total	Mg	0	0
			1	1		

- Molecule 83 is SPERMIDINE (CCD ID: SPD) (formula: $C_7H_{19}N_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
83	1	1	Total	C	N	0	0
			10	7	3		
83	AR	1	Total	C	N	0	0
			10	7	3		

- Molecule 84 is (3 {R})-3-[(1 {S})-2-[(1 {R},3 {S},4 {a} {S},7 {S},8 {a} {S})-5,5,7,8 {a}-tetramethyl-2-methylidene-3-oxidan-3,4,4 {a},6,7,8-hexahydro-1 {H}-naphthalen-1-yl]-1-oxidan-yl-ethyl]pyrrolidine-2,5-dione (CCD ID: XBI) (formula: $C_{21}H_{33}NO_4$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
84	1	1	Total	C	N	O	0	0
			26	21	1	4		
84	AR	1	Total	C	N	O	0	0
			26	21	1	4		

- Molecule 85 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	AH	1	Total	Zn	0	0
			1	1		
85	AK	1	Total	Zn	0	0
			1	1		
85	AN	1	Total	Zn	0	0
			1	1		
85	AP	1	Total	Zn	0	0
			1	1		
85	AQ	1	Total	Zn	0	0
			1	1		
85	DI	1	Total	Zn	0	0
			1	1		
85	DL	1	Total	Zn	0	0
			1	1		
85	DO	1	Total	Zn	0	0
			1	1		
85	DQ	1	Total	Zn	0	0
			1	1		
85	DR	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	b	1	Total 1	Zn 1	0	0
85	c	1	Total 1	Zn 1	0	0
85	e	1	Total 1	Zn 1	0	0
85	g	1	Total 1	Zn 1	0	0
85	d6	1	Total 1	Zn 1	0	0
85	d7	1	Total 1	Zn 1	0	0
85	d9	1	Total 1	Zn 1	0	0
85	e1	1	Total 1	Zn 1	0	0

- Molecule 86 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	1	53	Total 53	O 53	0	0
86	j	1	Total 1	O 1	0	0
86	AE	1	Total 1	O 1	0	0
86	AF	3	Total 3	O 3	0	0
86	AR	82	Total 82	O 82	0	0
86	AT	3	Total 3	O 3	0	0
86	CP	2	Total 2	O 2	0	0
86	CR	1	Total 1	O 1	0	0
86	DG	3	Total 3	O 3	0	0
86	A	33	Total 33	O 33	0	0
86	M	1	Total 1	O 1	0	0

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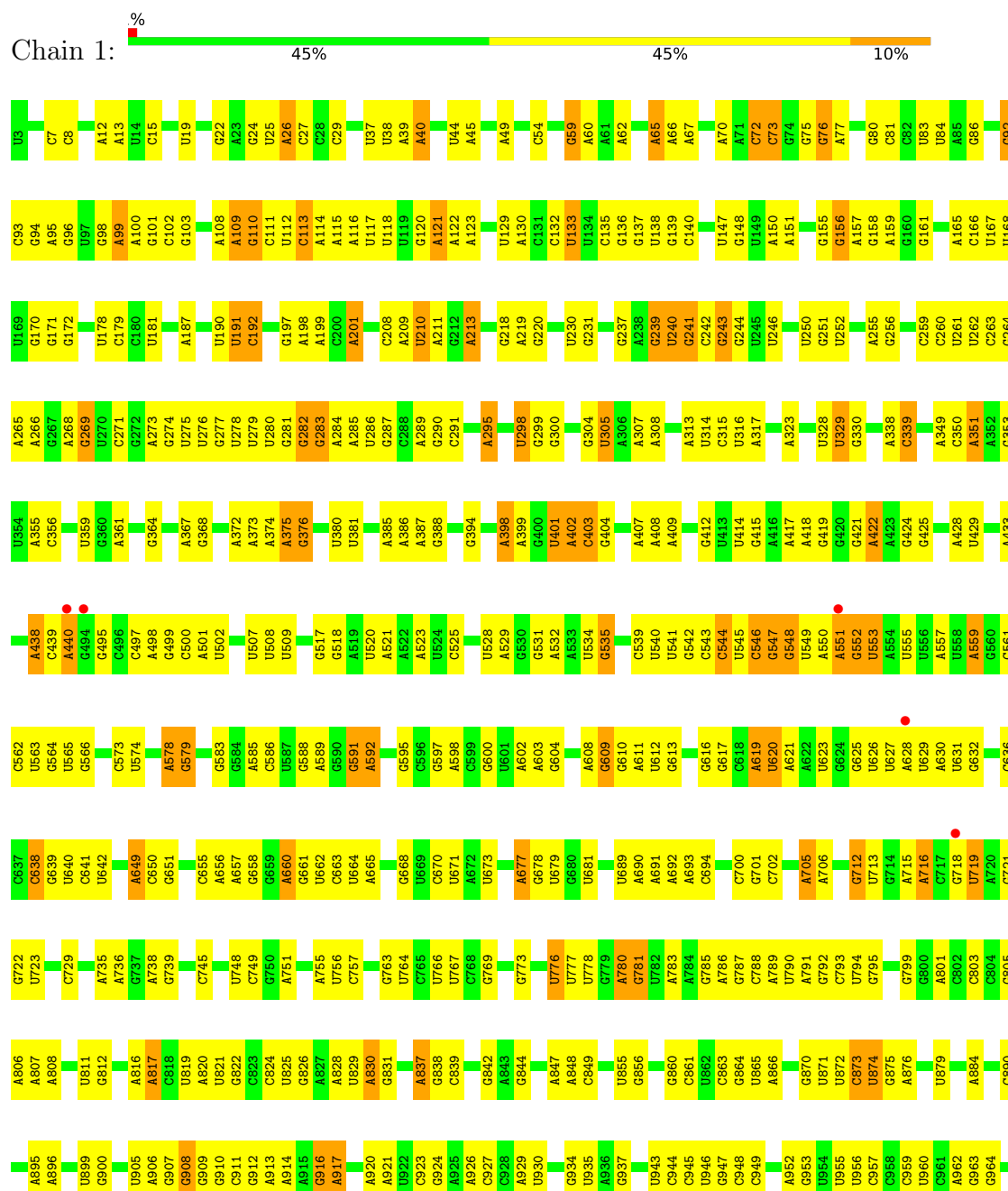
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	sR	23	Total	O	0	0
			23	23		

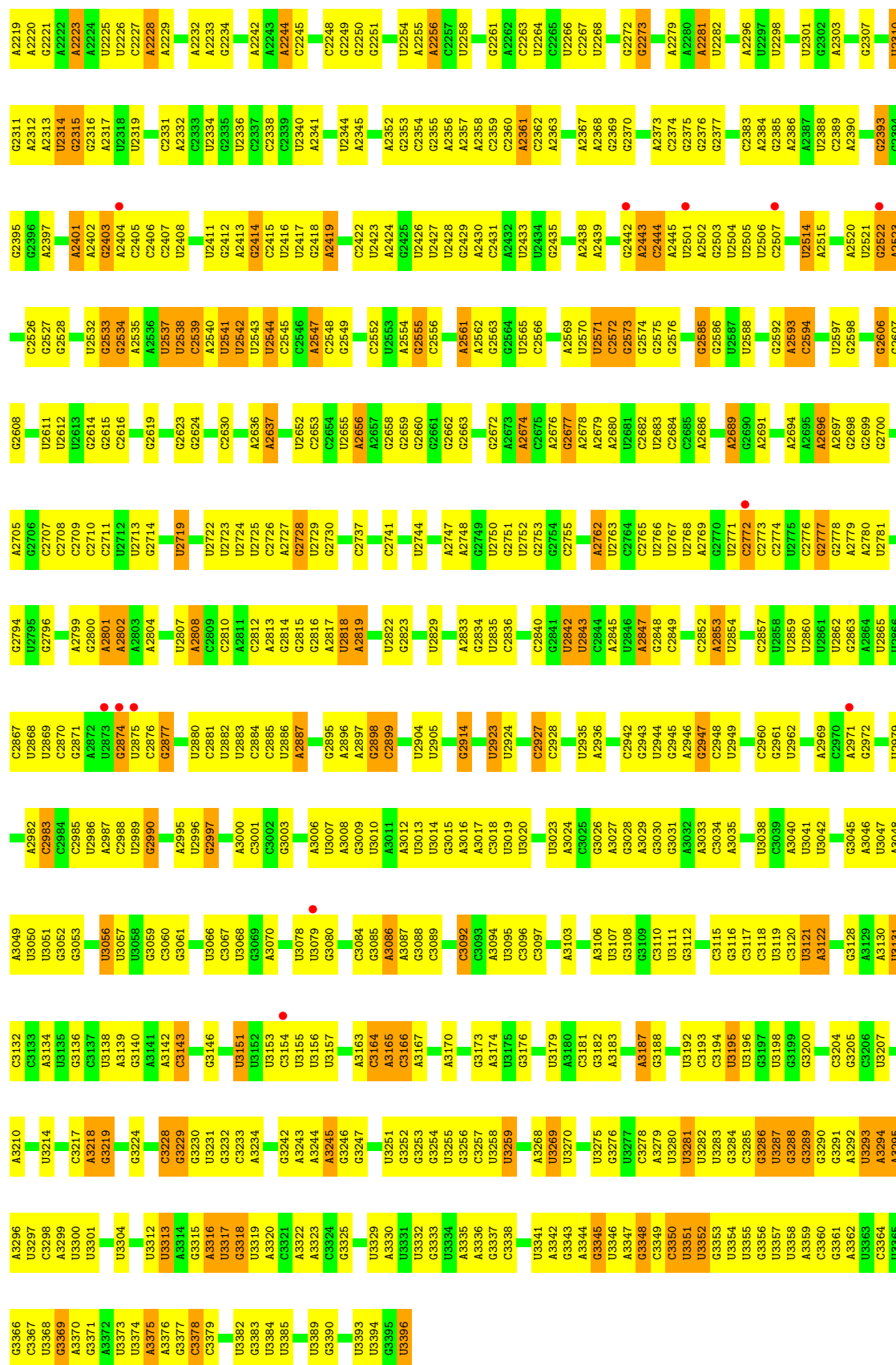
3 Residue-property plots

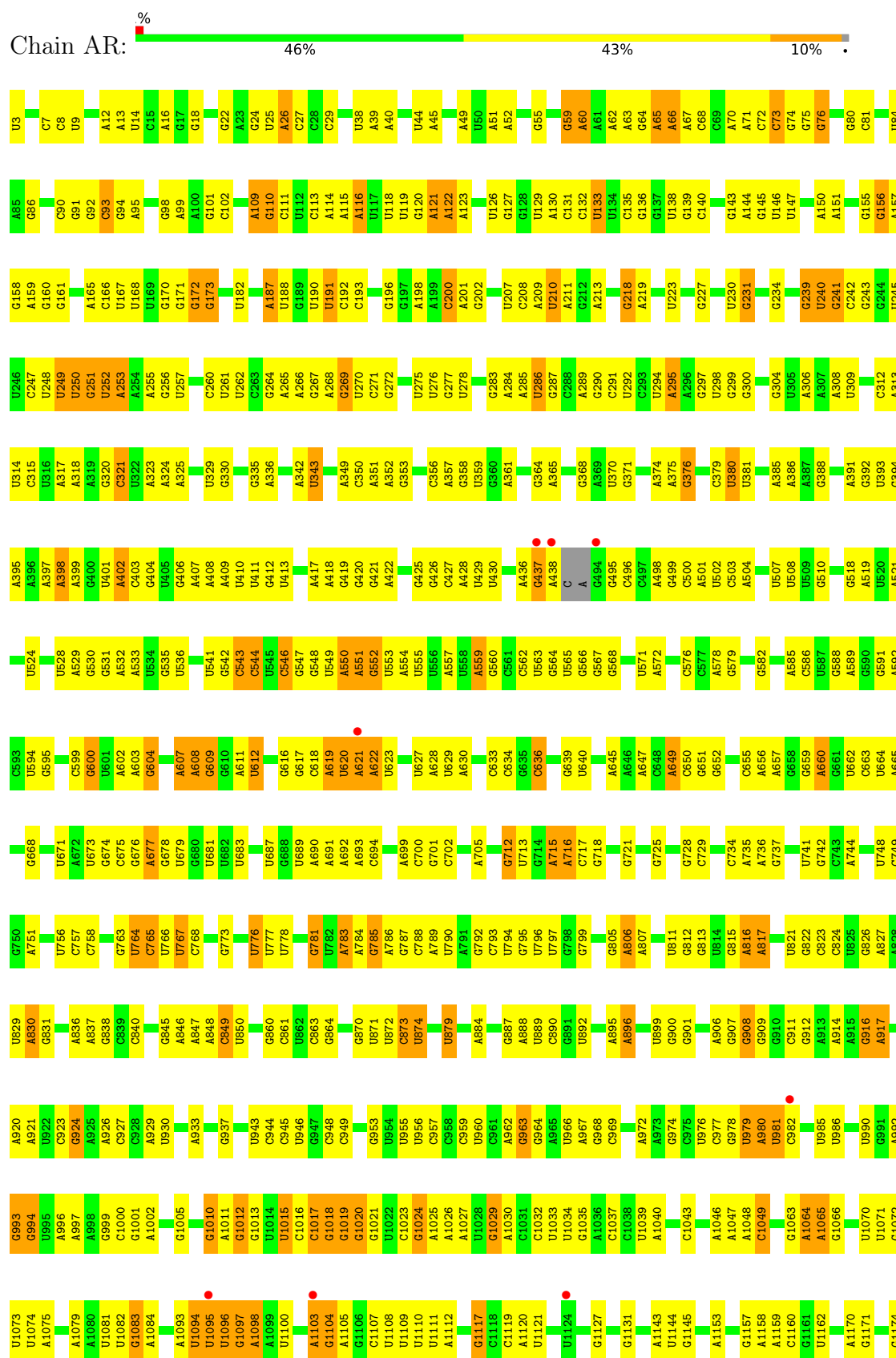
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 25S ribosomal RNA

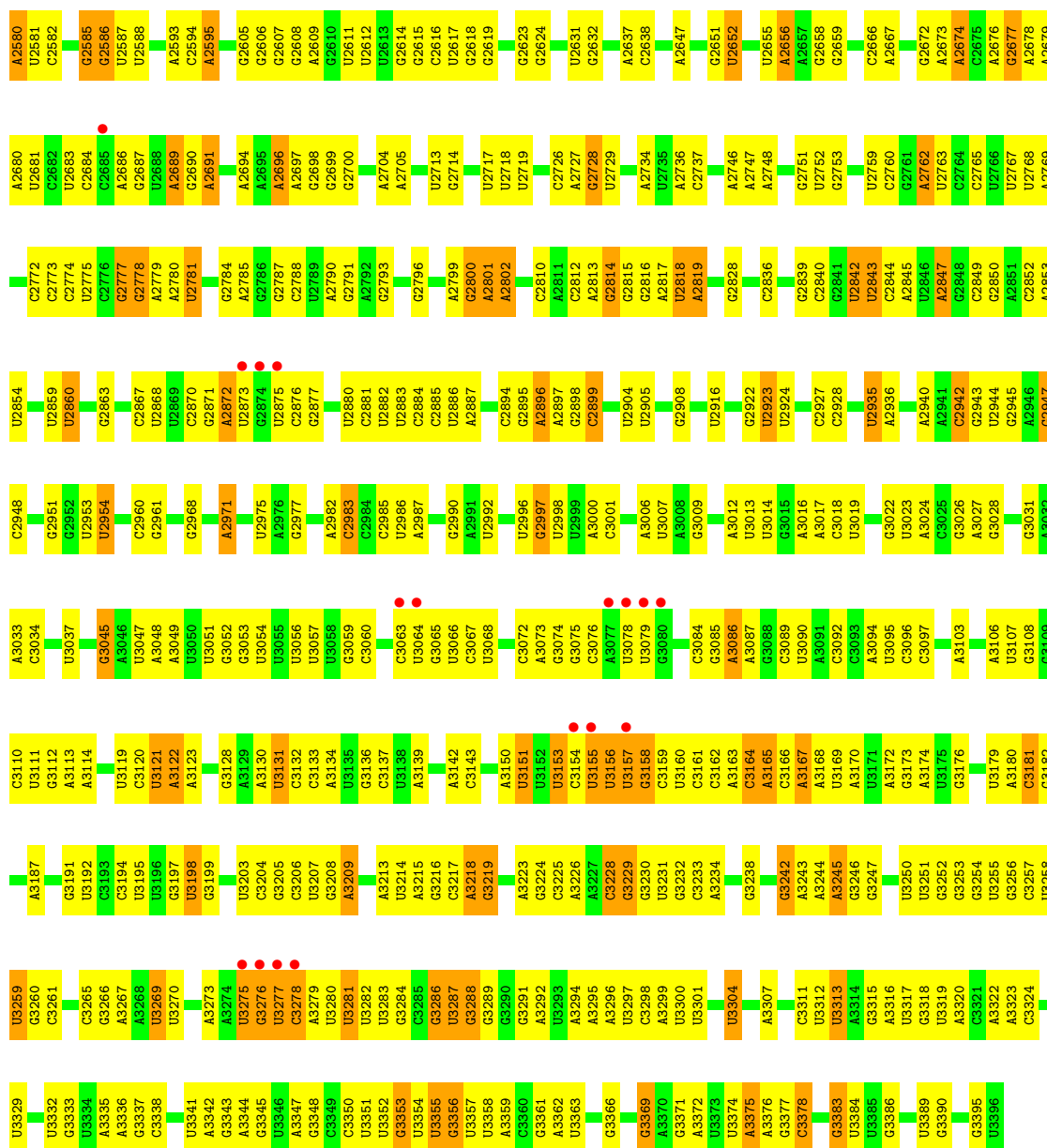


A2138	G968	U1042	C1119	A1203	U1267	G1349	U1450	U1540	A1612	U1686	G1895	U1925	A2138
A2139	C969	C1043	A1120	A1204	G1268	A1350	G1450	U1540	A1613	U1687	C1826	U1925	A2139
U2140	U1044	U1044	U1121	A1205	U1269	U1351	U1455	G1544	C1614	C1761	C1827	C1927	U2140
U2141	C1045	C1045	U1128	G1206	A1270	A1352	U1456	U1545	U1615	U1688	U1763	G1927	U2141
A2144	A973	A1046	U1129	G1209	C1272	G1354	A1460	A1546	G1617	U1695	U1832	G1934	A2144
A2147	G974	A1047	A1129	U1210	A1273	A1355	A1461	A1547	G1618	A1696	G1893	U1938	A2147
U2148	C975	A1048	A1130	U1211	A1274	U1356	U1461	G1552	A1619	U1697	U1833	U1939	U2148
A2149	U976	C1049	G1131	U1212	U1275	U1357	G1464	U1553	A1621	U1768	U1765	G1939	A2149
G2150	G977	A1057	C1141	A1213	U1276	A1359	G1466	U1554	A1622	C1701	G1766	C1941	G2150
G2151	U978	U1060	U1144	U1214	C1277	A1369	U1466	U1555	G1623	U1702	G1770	U1942	G2151
A2152	U979	U1063	U1145	U1215	A1278	G1374	U1470	C1556	G1624	U1703	G1775	G1947	A2152
U2153	A980	A1064	U1146	A1217	G1280	G1380	U1471	A1569	U1629	C1706	G1776	G1948	U2153
A2158	U981	A1065	C1146	A1221	G1282	A1381	U1472	U1560	U1630	A1707	G1779	G1949	A2158
U2159	C982	A1066	U1153	A1222	U1282	G1382	A1473	G1560	C1631	C1708	C1779	U1950	U2159
G2160	A983	U1071	A1154	A1223	G1285	G1383	G1474	G1561	U1632	C1709	U1780	U1951	G2160
G2161	U985	U1072	C1155	A1224	A1286	U1384	A1475	C1562	G1634	C1710	C1781	G1952	G2161
G2162	A992	U1073	C1156	A1225	A1287	C1385	G1476	U1563	G1635	C1711	U1782	G1953	G2162
C2163	A993	U1074	C1157	A1226	C1292	A1386	A1477	U1565	G1636	G1718	U1785	G1953	C2163
A2169	G994	A1075	C1158	C1227	C1292	G1389	G1480	U1566	A1637	A1715	U1786	G2093	A2169
U2170	G999	U1076	C1159	C1228	G1295	A1390	G1481	U1567	A1638	U1716	A1787	C2094	U2170
U2173	G1000	U1077	G1161	G1229	C1296	C1391	A1482	U1568	C1639	U1717	U1788	C2095	U2173
C2174	G1001	U1081	U1162	A1231	G1297	G1392	G1485	U1570	U1641	G1719	U1789	C2096	C2174
U2175	A1002	U1082	C1166	A1232	C1298	G1393	G1486	A1571	A1642	U1720	G1790	U2097	U2175
U2176	A1006	G1083	U1167	G1233	C1298	A1399	G1487	U1572	A1643	U1721	C1793	C2098	U2176
G2177	U1006	A1084	U1168	U1234	A1301	G1400	G1488	C1573	C1644	U1722	U1789	C2099	G2177
G2178	G1010	A1085	A1169	U1235	A1302	G1404	G1488	G1574	G1645	U1723	U1795	C2101	G2178
C2179	G1013	C1086	A1170	G1236	A1303	U1405	G1492	A1575	G1650	A1724	U1796	U2102	C2179
G2180	U1014	U1090	G1171	G1237	G1306	U1405	G1493	C1576	A1654	C1725	A1797	U2103	G2180
C2181	U1015	A1091	C1174	C1238	G1307	G1408	G1494	U1577	U1654	G1726	U1798	U2104	C2181
G2185	C1016	C1092	C1175	C1239	A1308	G1408	U1495	C1578	C1657	G1727	A1799	C2105	G2185
G2187	G1017	A1093	U1176	A1240	U1309	G1412	G1496	A1579	G1658	U1728	U1800	C2106	G2187
A2186	G1018	U1094	G1177	U1241	U1310	G1416	C1497	C1581	U1659	A1729	U1801	U2109	A2186
U2191	G1019	U1095	U1177	G1243	G1310	G1416	A1498	C1582	C1660	G1730	C1802	C2108	U2191
C2192	G1020	U1096	A1180	A1244	G1313	G1417	A1499	A1583	G1661	A1731	C1803	G2110	C2192
U2193	G1021	G1097	U1181	A1245	A1317	A1418	G1500	G1586	G1662	U1732	A1804	C2111	U2193
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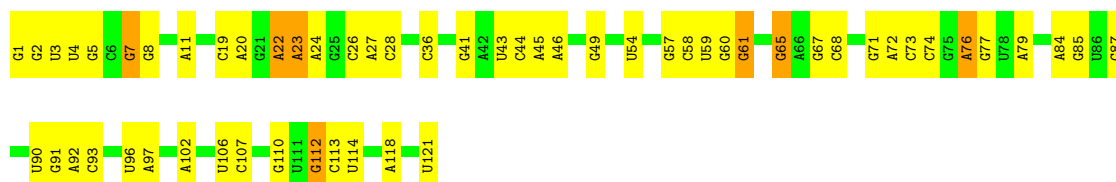


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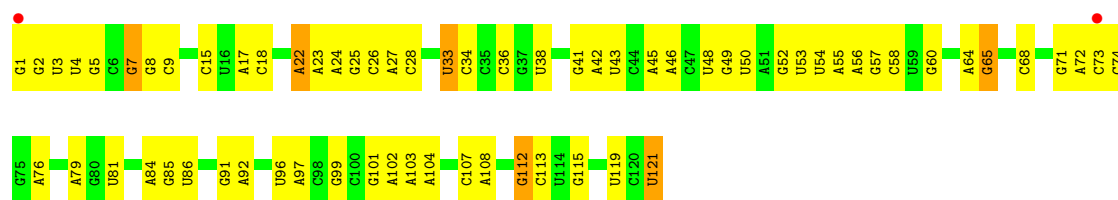
• Molecule 2: 5S ribosomal RNA

Chain 3: 53% 41% 6%



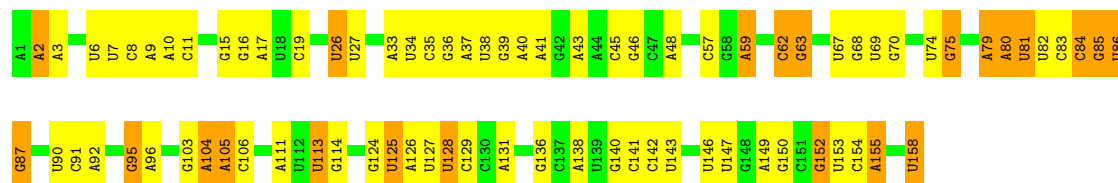
• Molecule 2: 5S ribosomal RNA

Chain AS: 45% 50% 5%



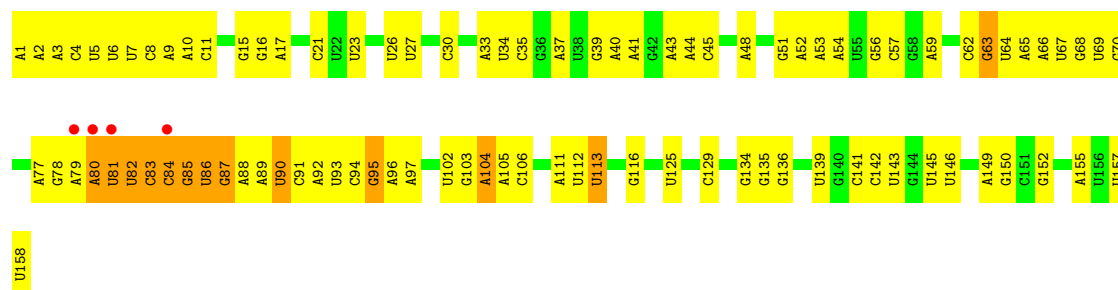
• Molecule 3: 5.8 ribosomal RNA

Chain 4: 49% 37% 14%



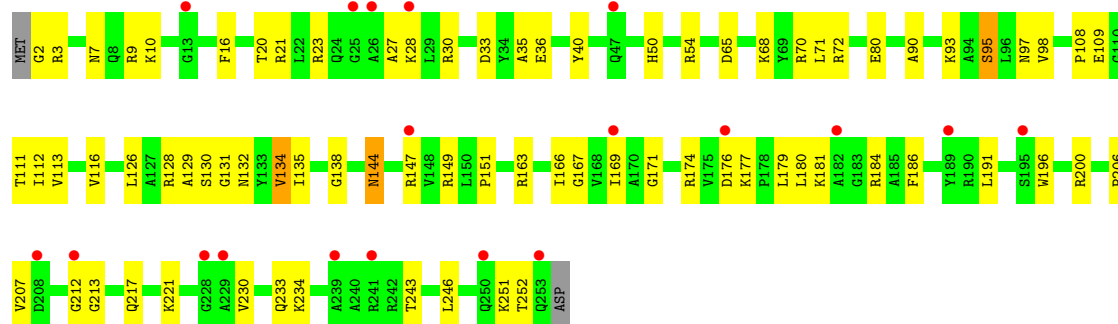
• Molecule 3: 5.8 ribosomal RNA

Chain AT: 3% 41% 51% 8%



• Molecule 4: 60S ribosomal protein L2-A

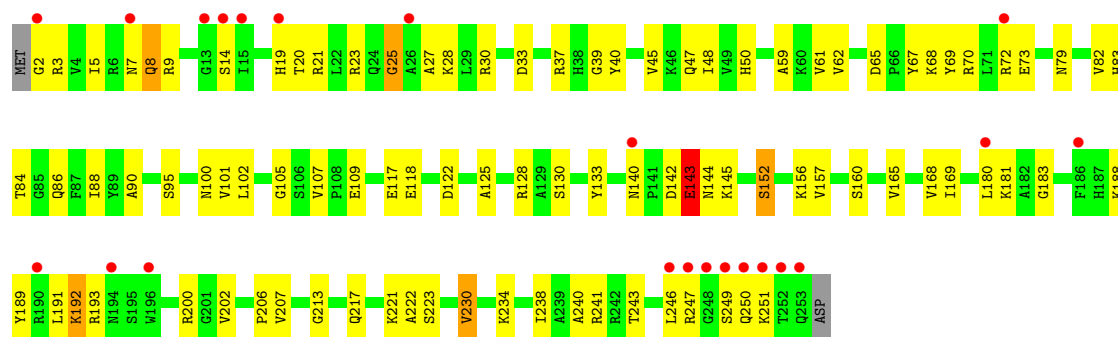
Chain j: 7% 69% 29% ..



• Molecule 4: 60S ribosomal protein L2-A

Chain CD: 9% 62% 35% ..

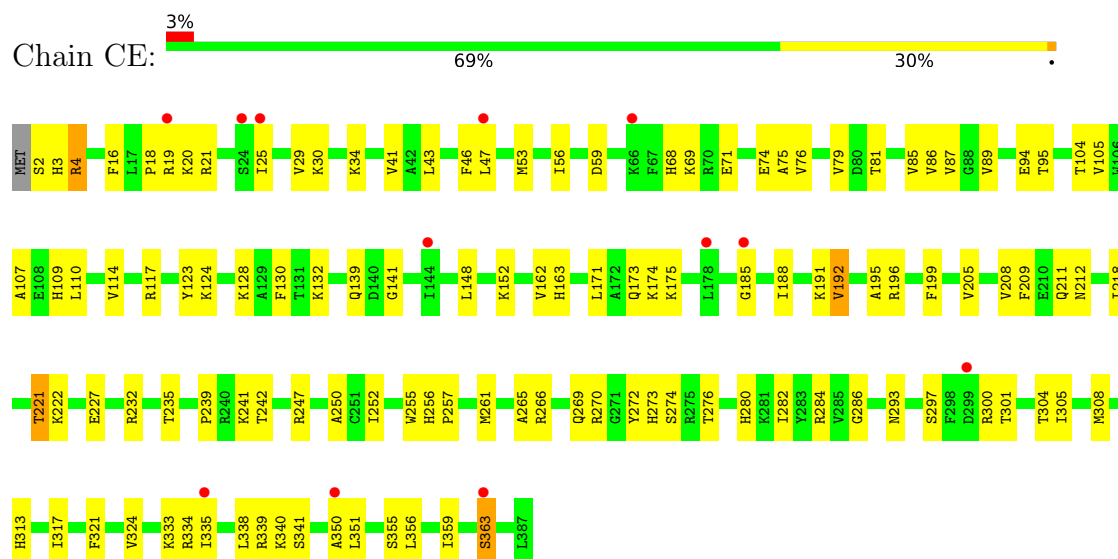




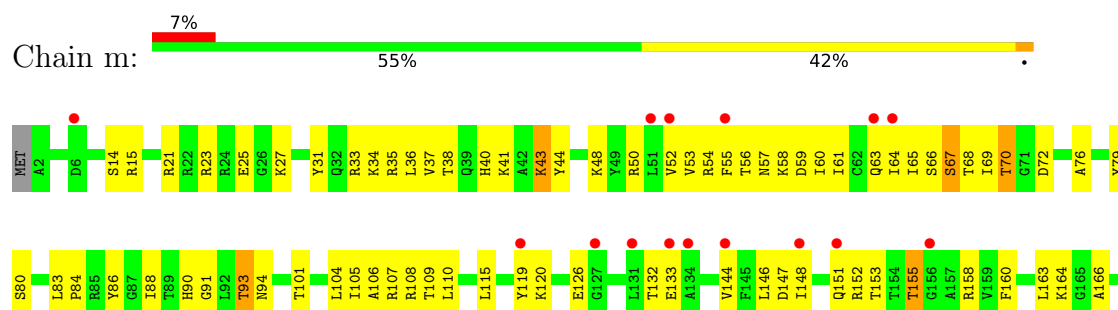
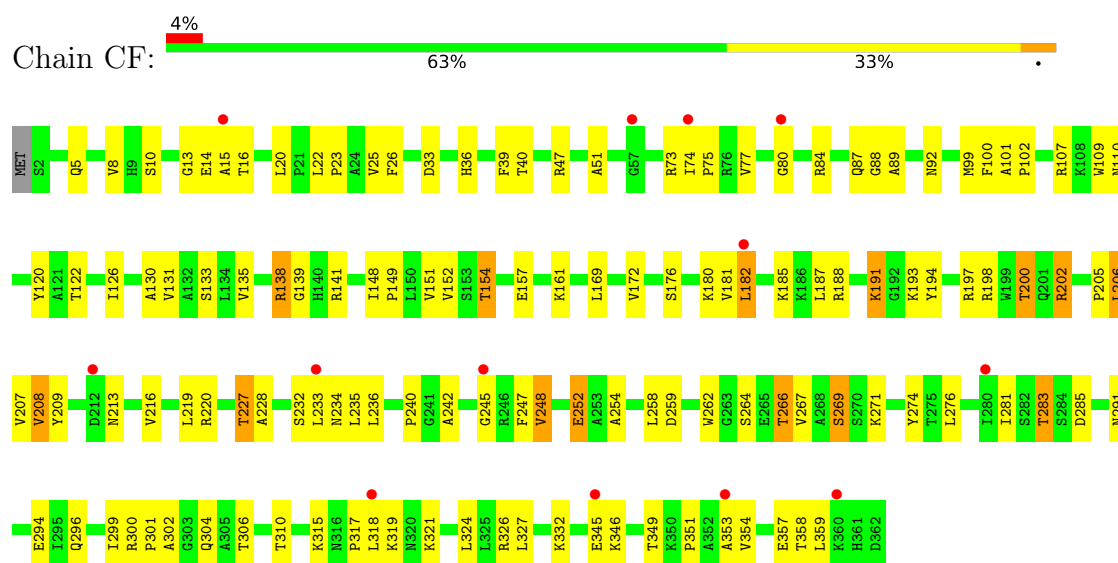
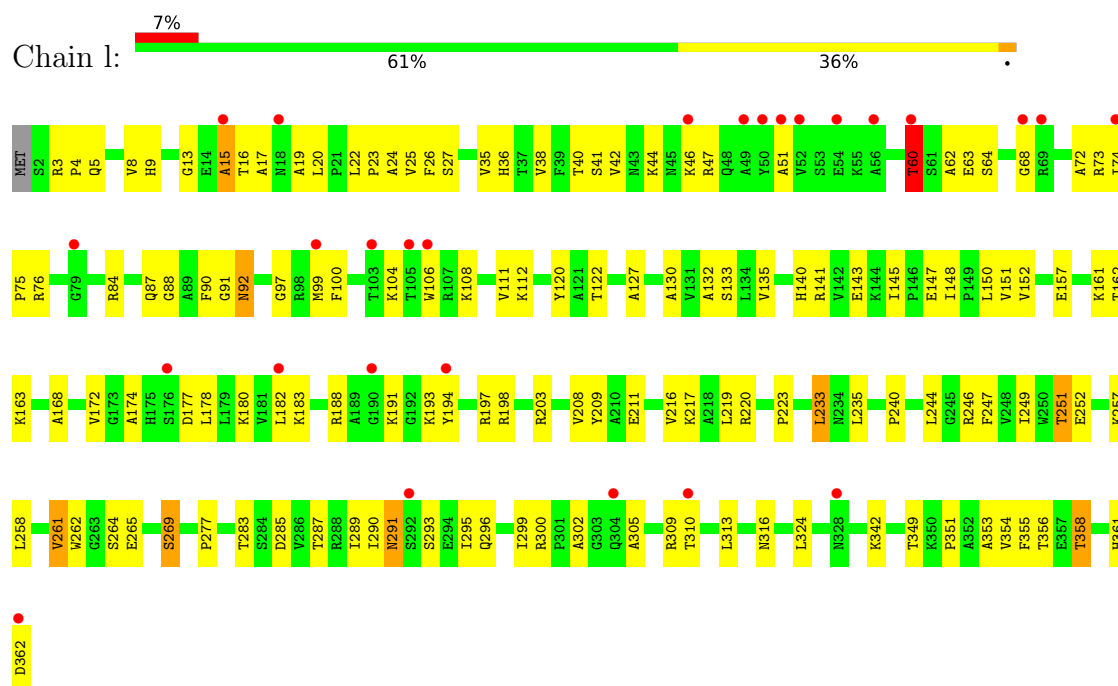
• Molecule 5: 60S ribosomal protein L3

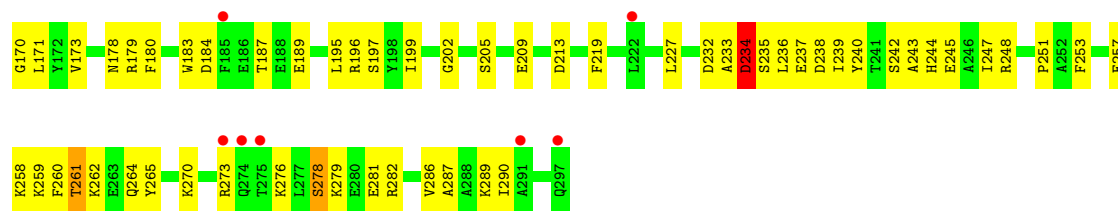


• Molecule 5: 60S ribosomal protein L3

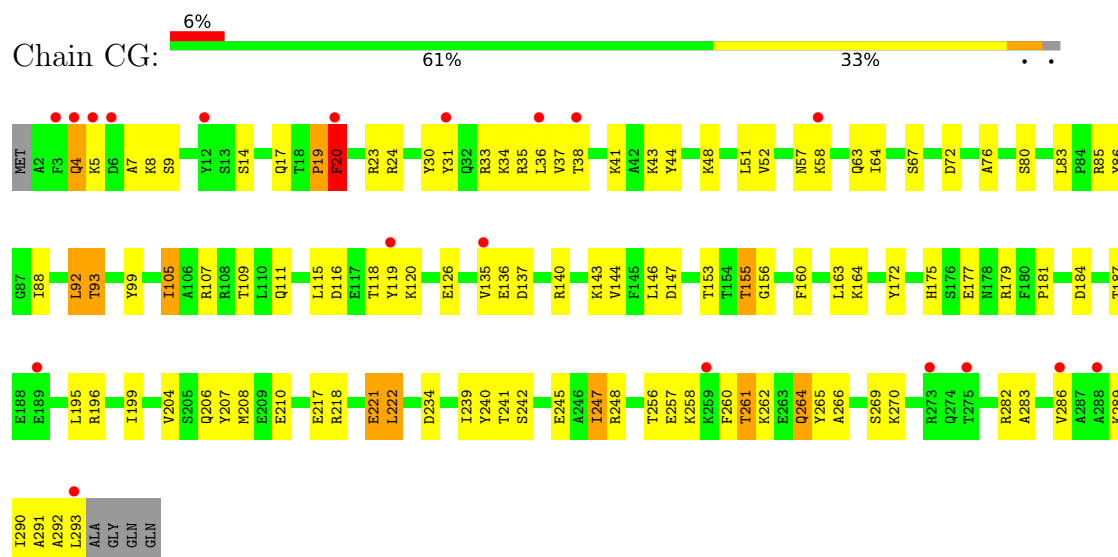


• Molecule 6: 60S ribosomal protein L4-A

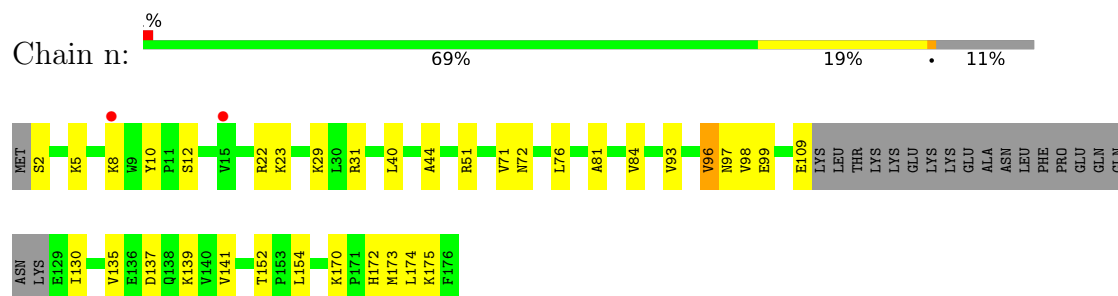




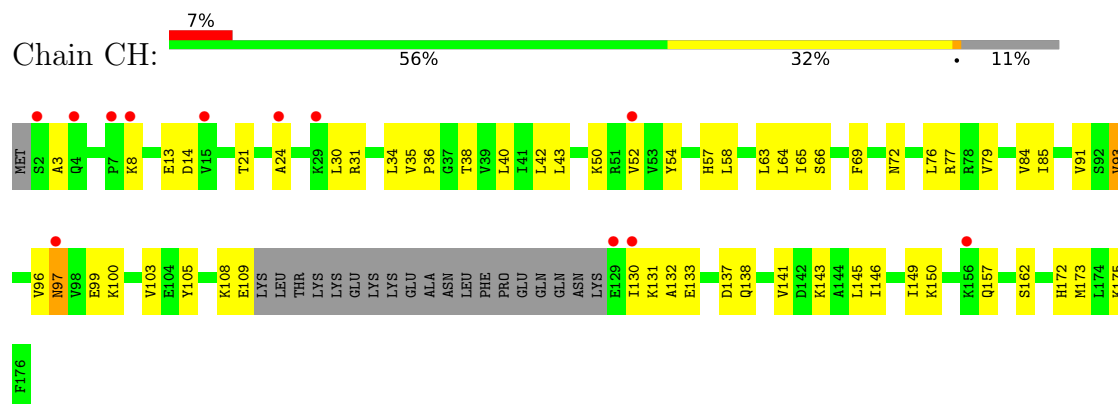
• Molecule 7: 60S ribosomal protein L5



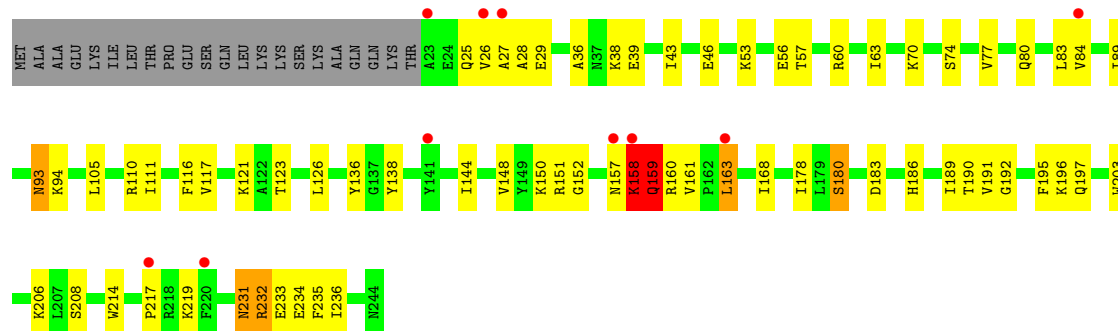
• Molecule 8: 60S ribosomal protein L6-A



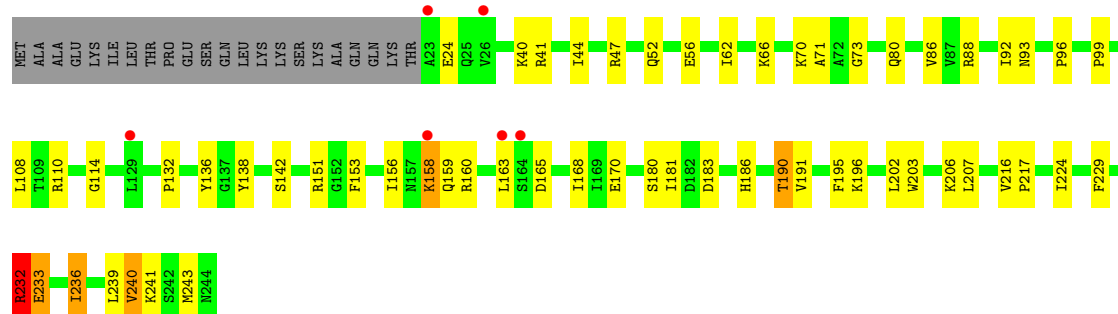
• Molecule 8: 60S ribosomal protein L6-A



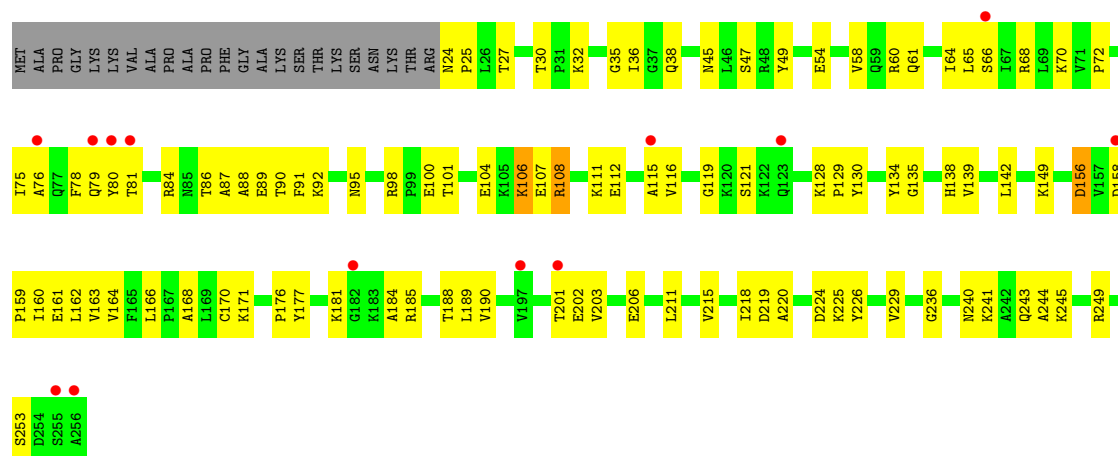
• Molecule 9: 60S ribosomal protein L7-A



• Molecule 9: 60S ribosomal protein L7-A

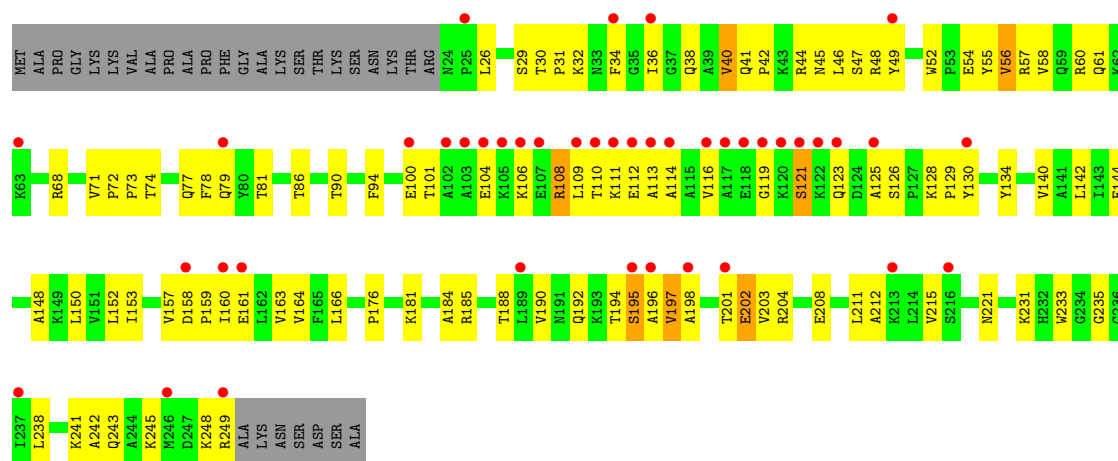


• Molecule 10: 60S ribosomal protein L8-A

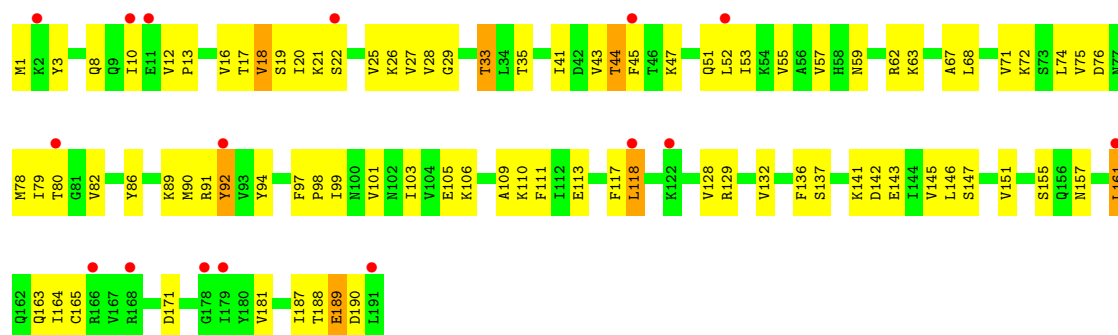


• Molecule 10: 60S ribosomal protein L8-A

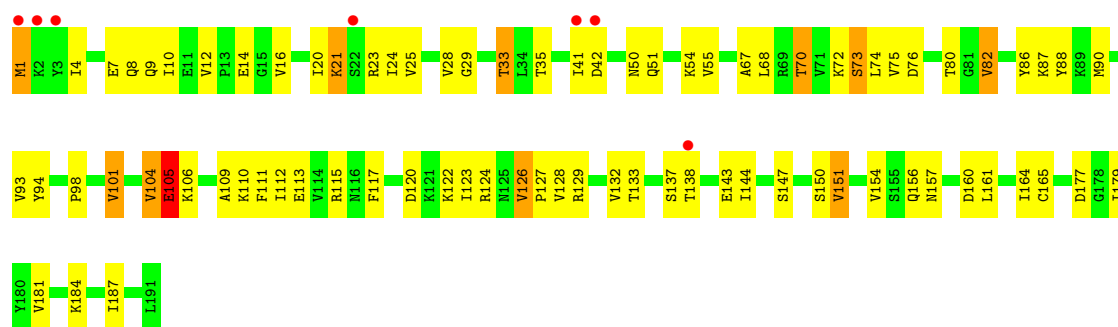




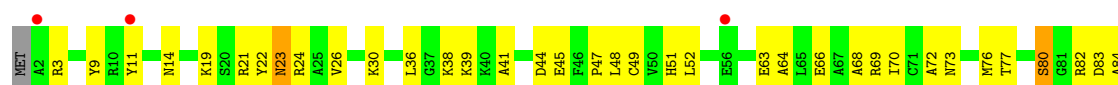
• Molecule 11: 60S ribosomal protein L9-A

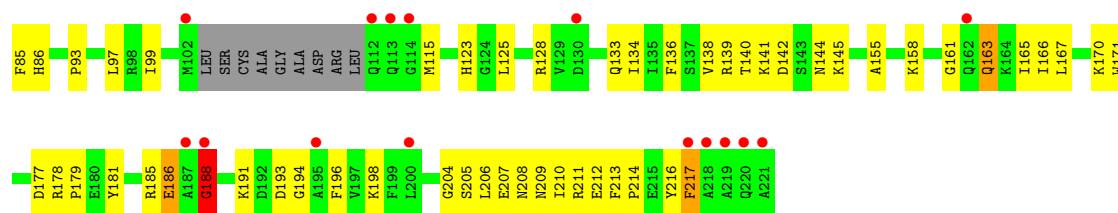


• Molecule 11: 60S ribosomal protein L9-A

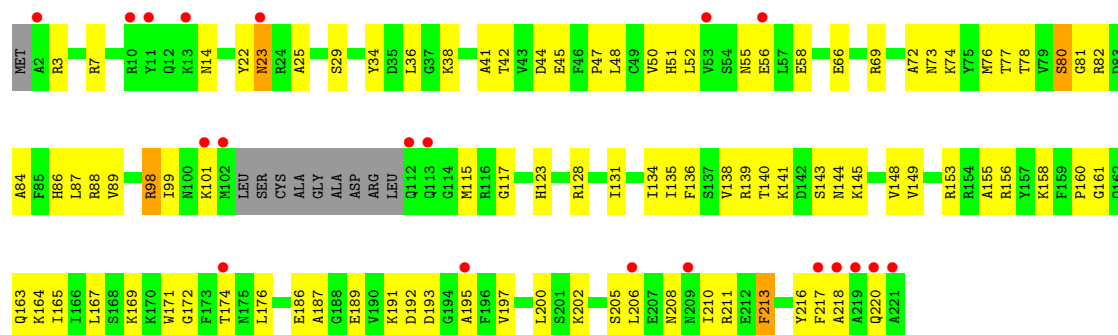


• Molecule 12: 60S ribosomal protein L10

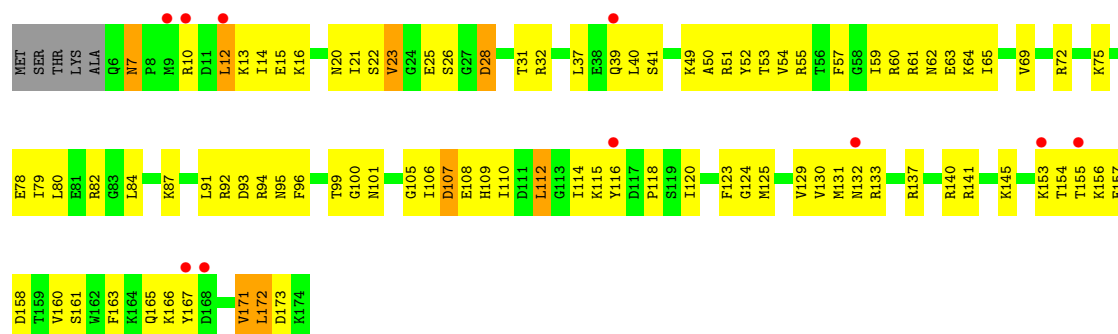
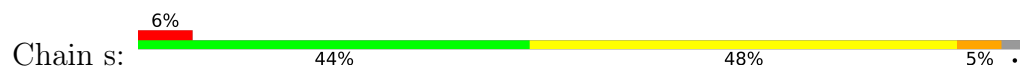




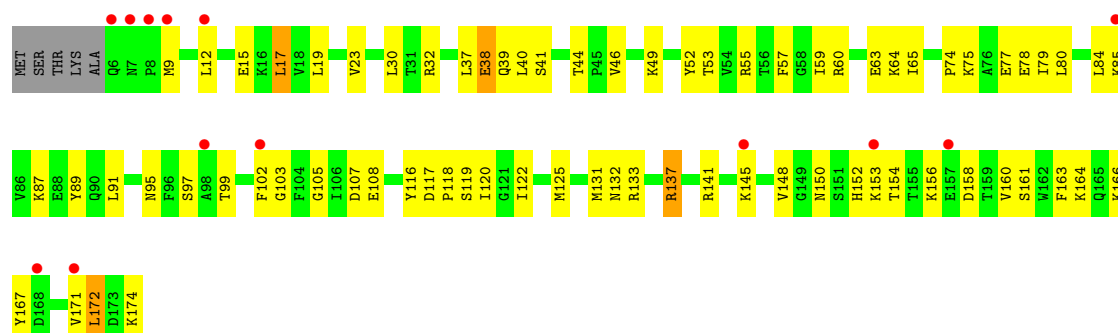
• Molecule 12: 60S ribosomal protein L10



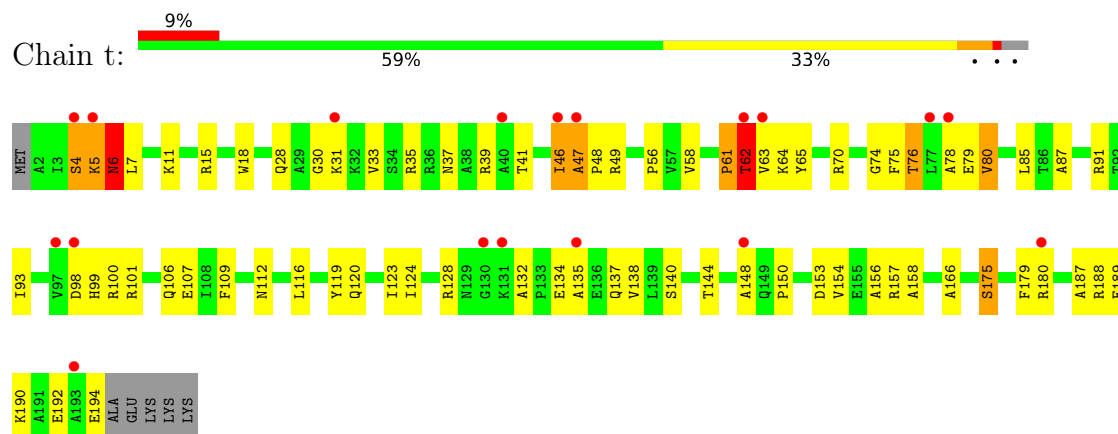
• Molecule 13: Large ribosomal subunit protein uL5B



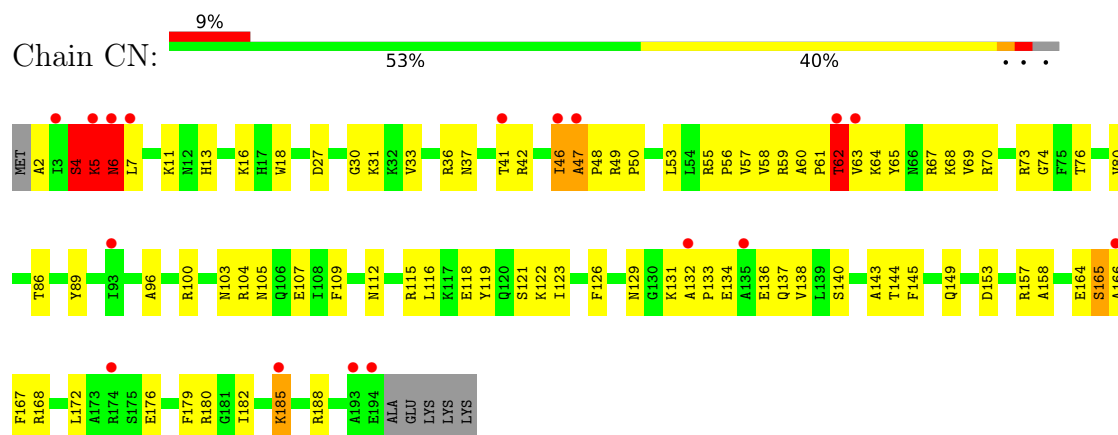
• Molecule 13: Large ribosomal subunit protein uL5B



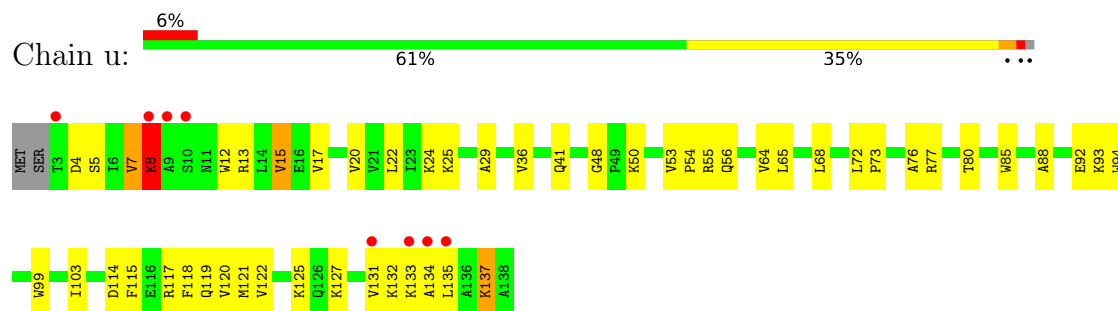
- Molecule 14: 60S ribosomal protein L13-A



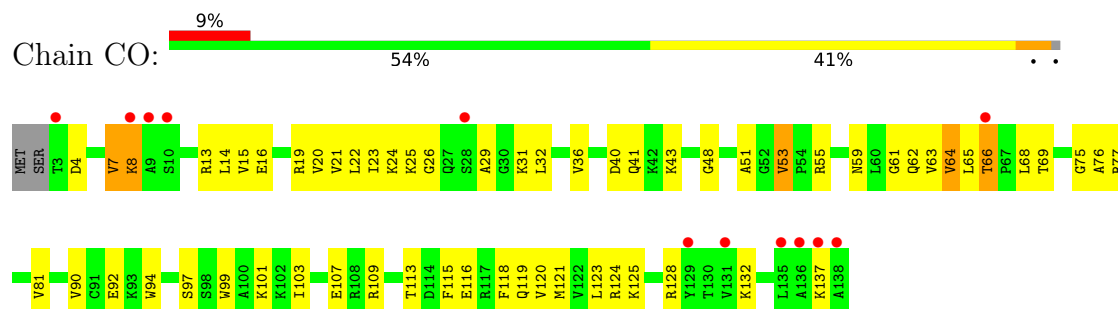
- Molecule 14: 60S ribosomal protein L13-A



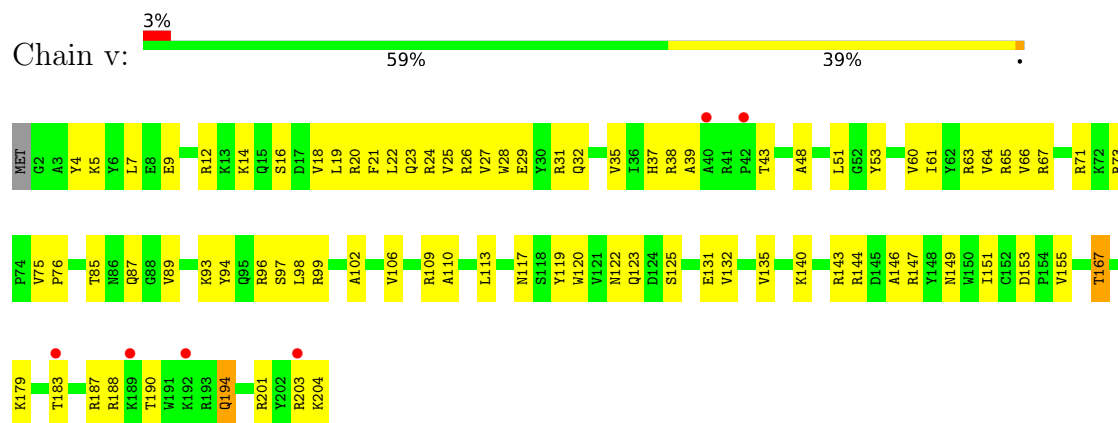
- Molecule 15: 60S ribosomal protein L14-A



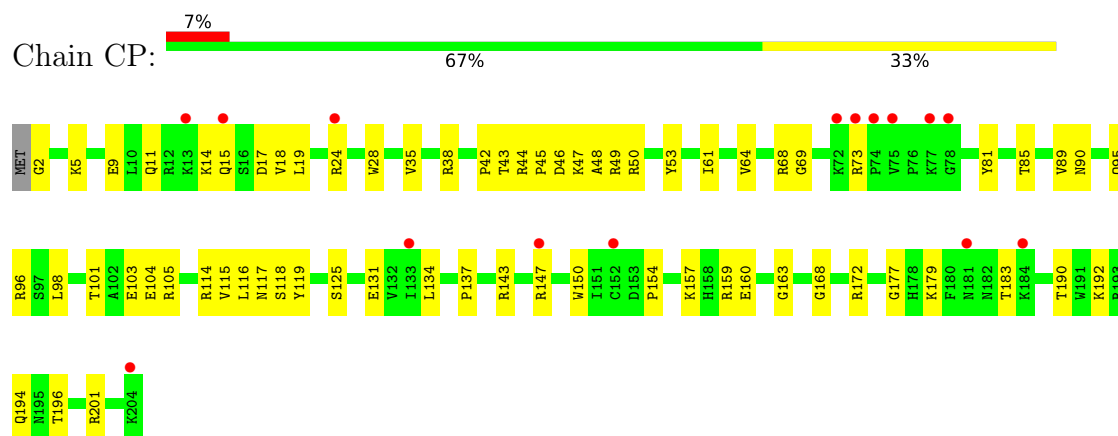
- Molecule 15: 60S ribosomal protein L14-A



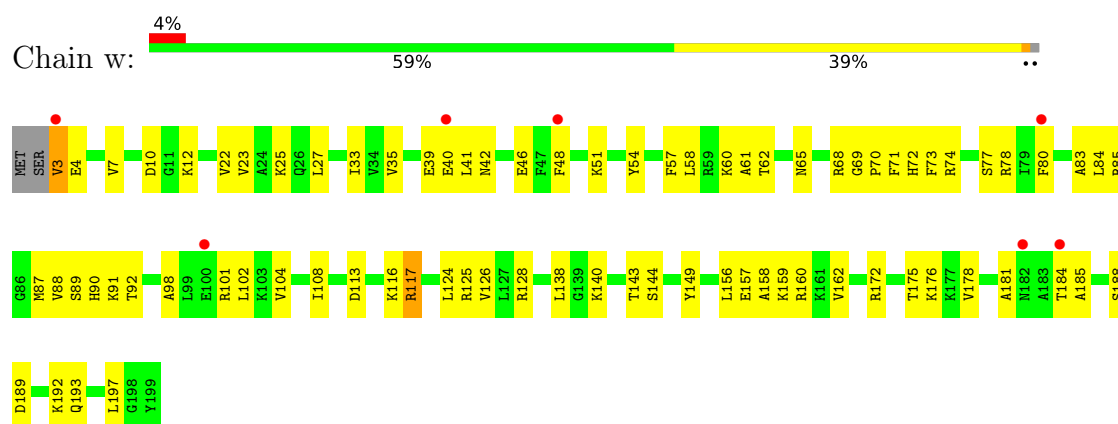
- Molecule 16: 60S ribosomal protein L15-A



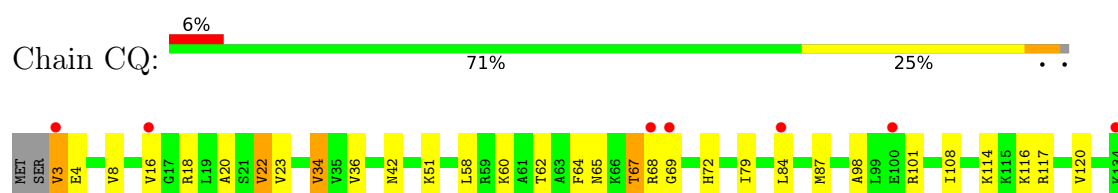
- Molecule 16: 60S ribosomal protein L15-A



- Molecule 17: 60S ribosomal protein L16-A

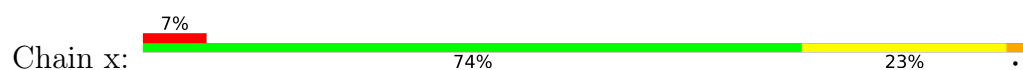


- Molecule 17: 60S ribosomal protein L16-A

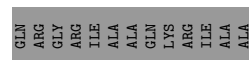




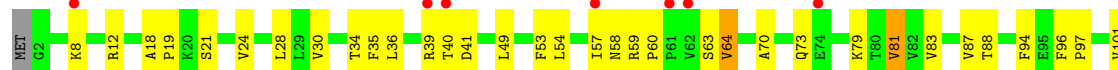
- Molecule 18: 60S ribosomal protein L17-A



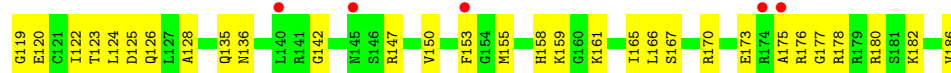
- Molecule 18: 60S ribosomal protein L17-A



- Molecule 19: 60S ribosomal protein L18-A



- Molecule 19: 60S ribosomal protein L18-A



Chain z:

Chain CT:

13% 61% 37%

Chain 0:

7% 64% 34%

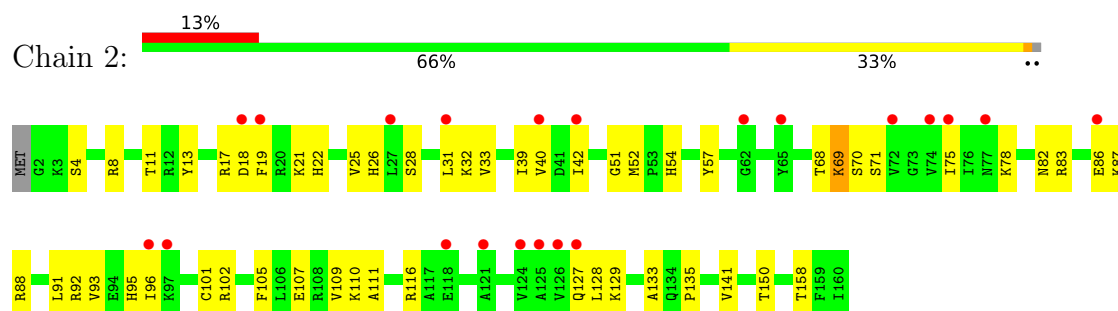
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A101 E104 T105 L106 Y107 Q108 D109 M110 H122 I129 K130 K131 T132 A133 D134 V135 K136 R137 Q138 Y139 V140 K141 Q142 F143 L144 T145 K146 D147 L148 K149 F150 P153 V156 T162 F163 S164 F165 K166 P167 R168 S169 Y172

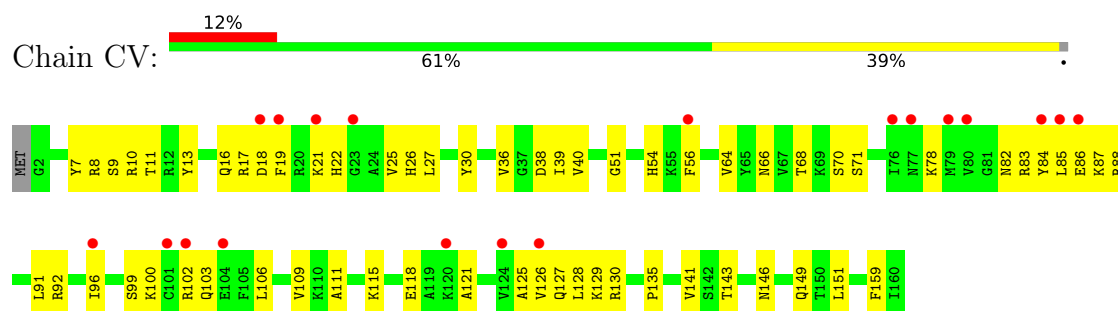
Chain CU:

67% 30% 2%

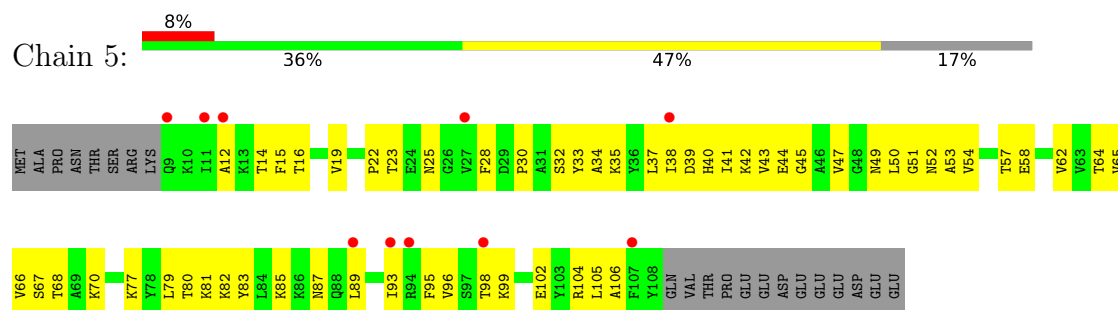
- Molecule 22: 60S ribosomal protein L21-A



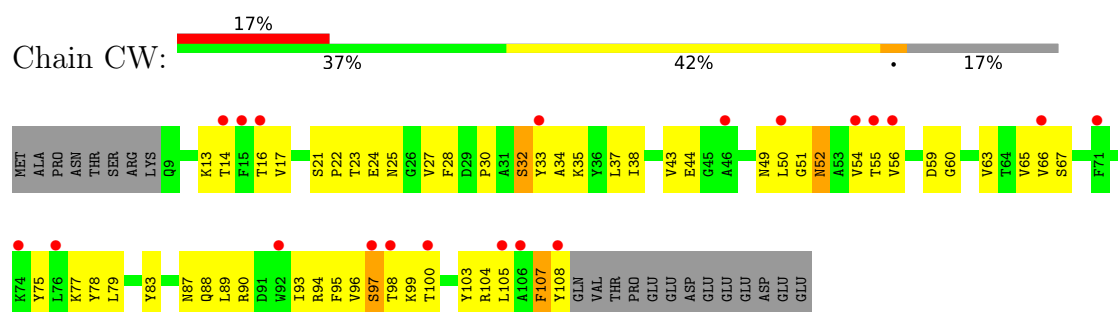
- Molecule 22: 60S ribosomal protein L21-A



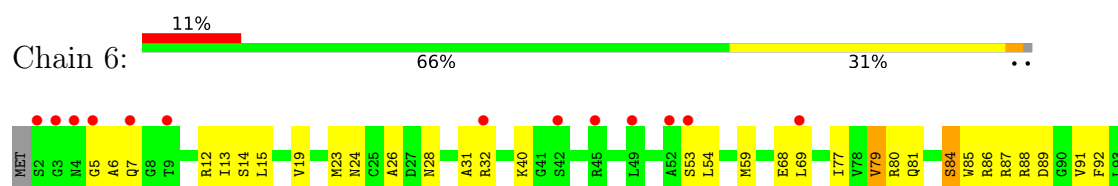
- Molecule 23: 60S ribosomal protein L22-A



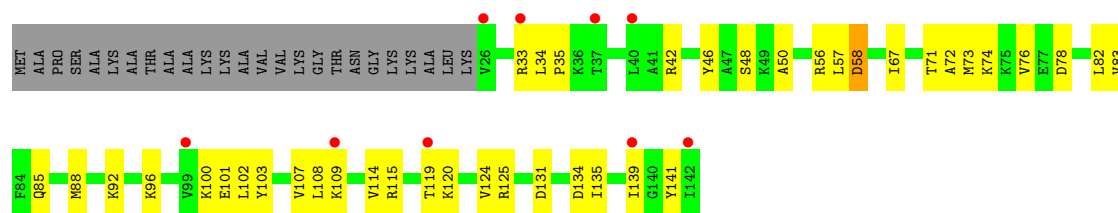
- Molecule 23: 60S ribosomal protein L22-A



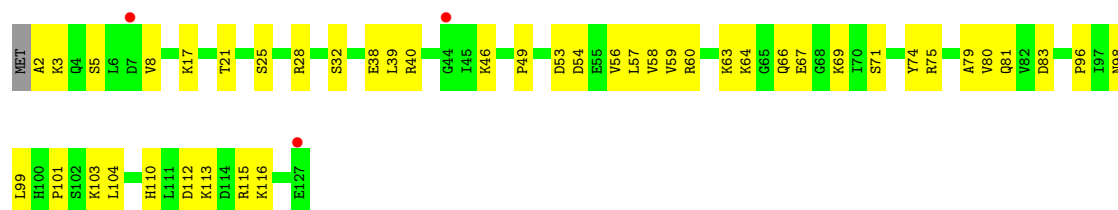
- Molecule 24: 60S ribosomal protein L23-A



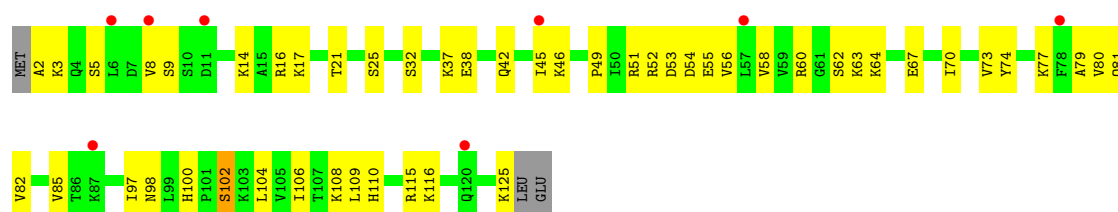




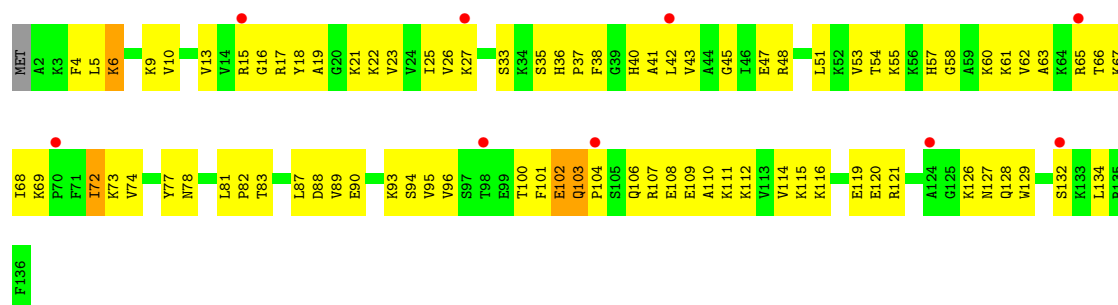
• Molecule 27: 60S ribosomal protein L26-A



• Molecule 27: 60S ribosomal protein L26-A

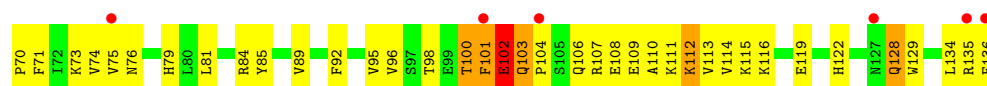


• Molecule 28: 60S ribosomal protein L27-A

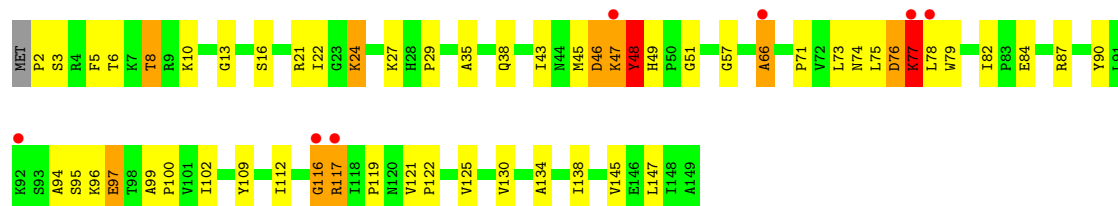


• Molecule 28: 60S ribosomal protein L27-A

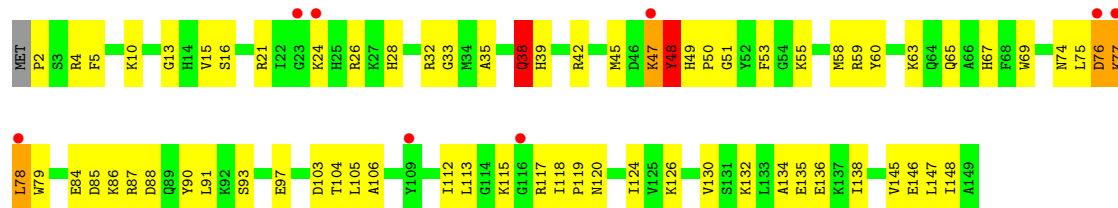




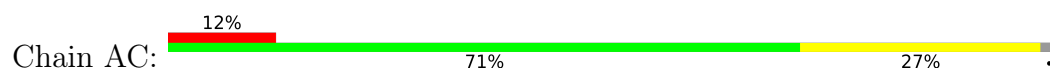
- Molecule 29: 60S ribosomal protein L28



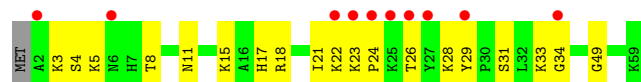
- Molecule 29: 60S ribosomal protein L28



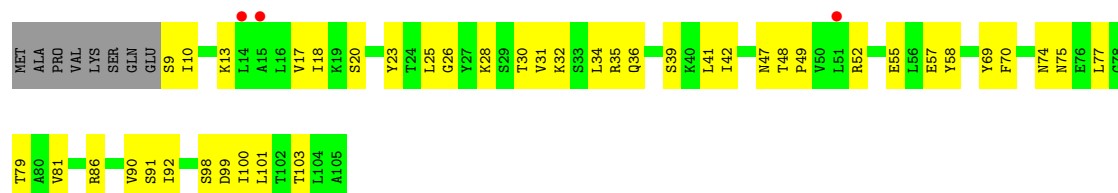
- Molecule 30: 60S ribosomal protein L29



- Molecule 30: 60S ribosomal protein L29



- Molecule 31: 60S ribosomal protein L30



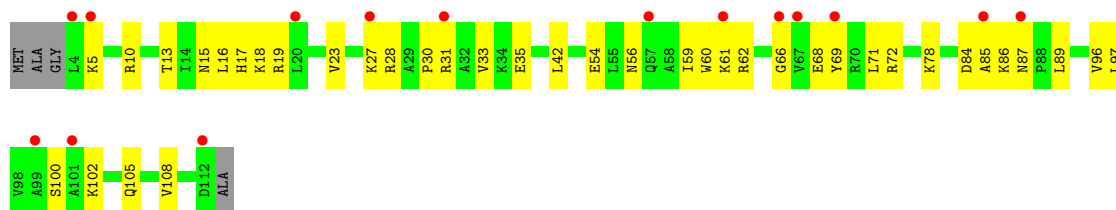
- Molecule 31: 60S ribosomal protein L30

Chain DE: 



- Molecule 32: 60S ribosomal protein L31-A

Chain AE: 



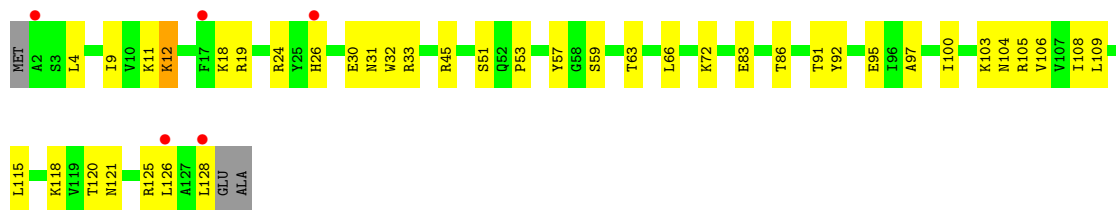
- Molecule 32: 60S ribosomal protein L31-A

Chain DF: 



- Molecule 33: 60S ribosomal protein L32

Chain AF: 



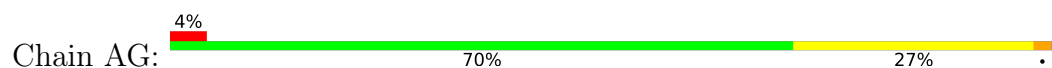
- Molecule 33: 60S ribosomal protein L32

Chain DG: 





- Molecule 34: 60S ribosomal protein L33-A



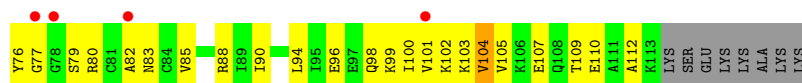
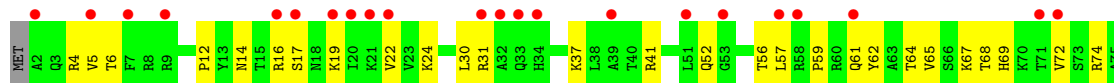
- Molecule 34: 60S ribosomal protein L33-A



- Molecule 35: 60S ribosomal protein L34-A



- Molecule 35: 60S ribosomal protein L34-A

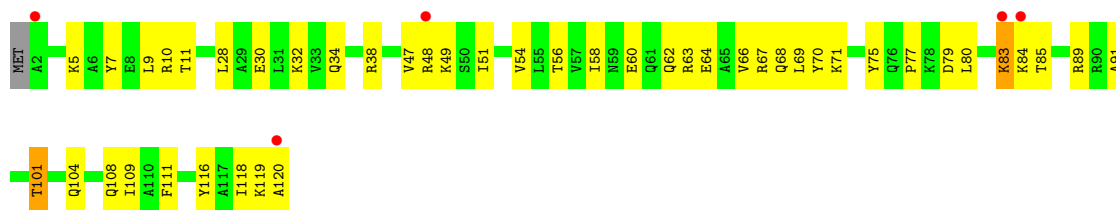


- Molecule 36: 60S ribosomal protein L35-A

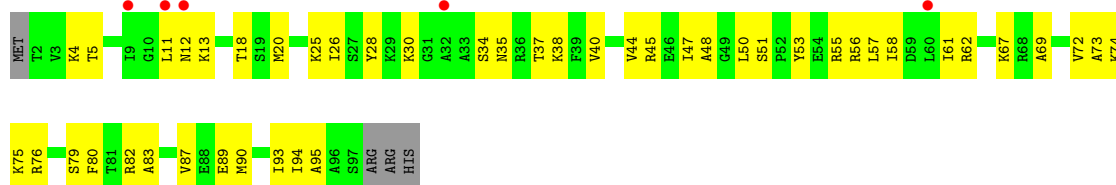




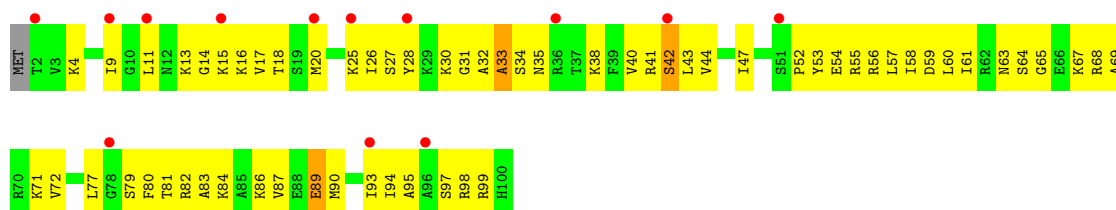
- Molecule 36: 60S ribosomal protein L35-A



- Molecule 37: 60S ribosomal protein L36-A



- Molecule 37: 60S ribosomal protein L36-A



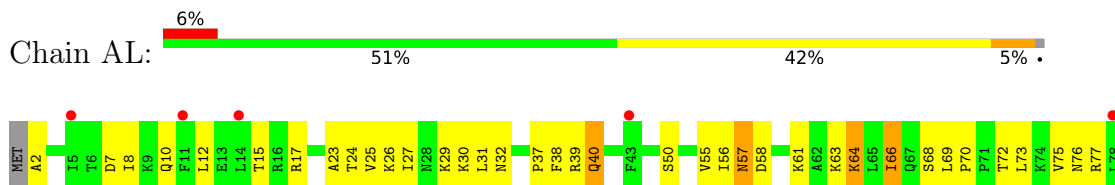
- Molecule 38: 60S ribosomal protein L37-A



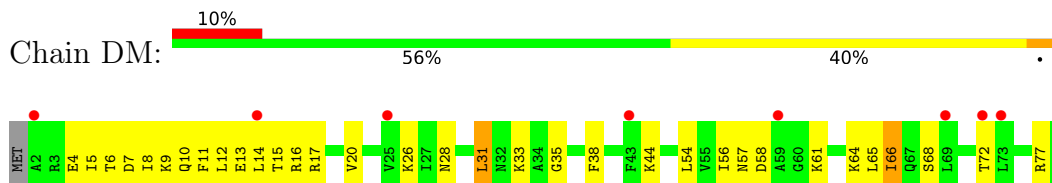
- Molecule 38: 60S ribosomal protein L37-A



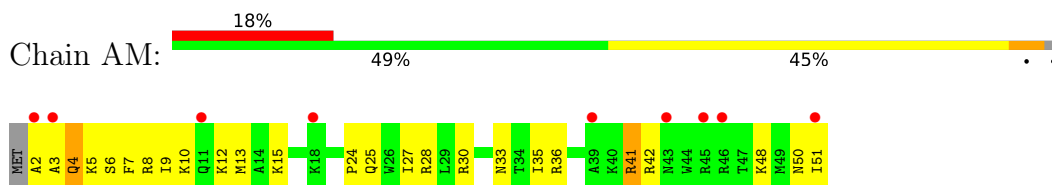
- Molecule 39: 60S ribosomal protein L38



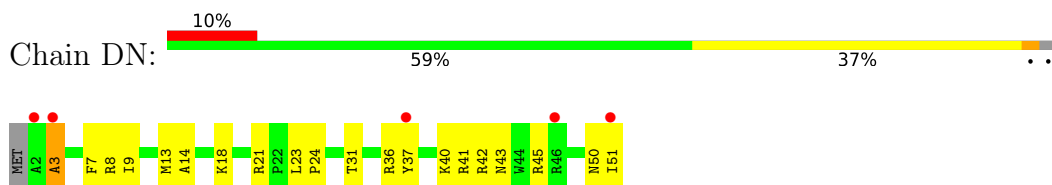
- Molecule 39: 60S ribosomal protein L38



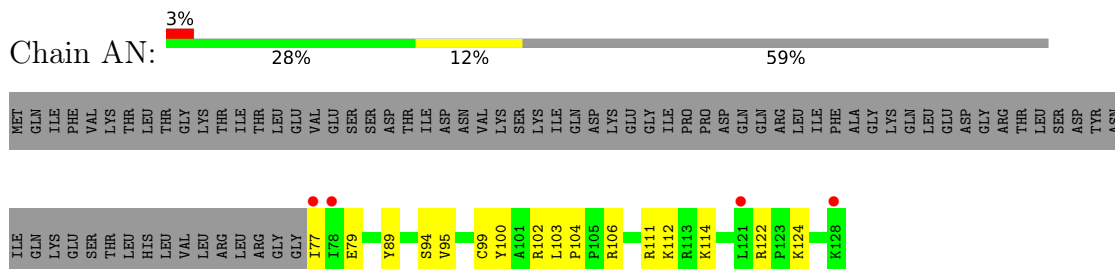
- Molecule 40: 60S ribosomal protein L39



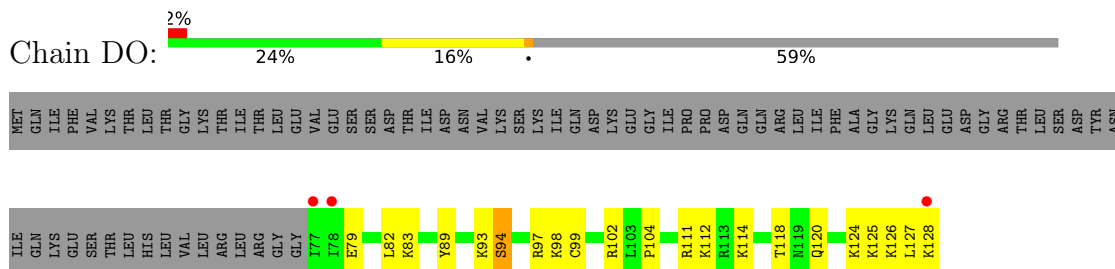
- Molecule 40: 60S ribosomal protein L39



- Molecule 41: Ubiquitin-60S ribosomal protein L40



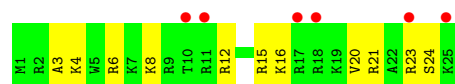
- Molecule 41: Ubiquitin-60S ribosomal protein L40



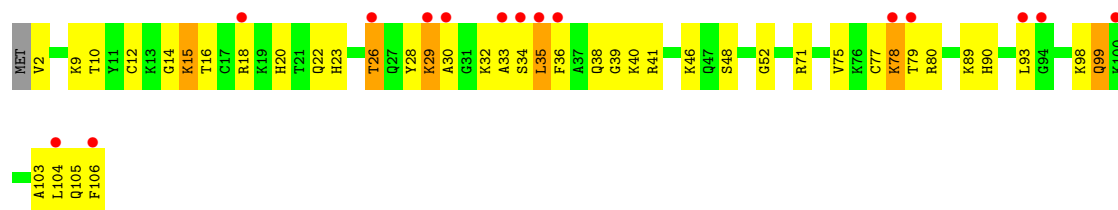
- Molecule 42: Large ribosomal subunit protein eL41B



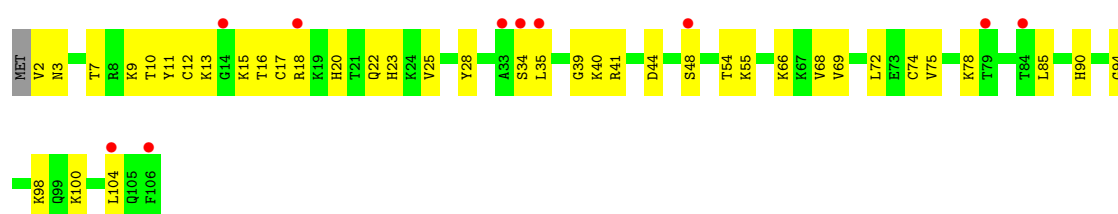
- Molecule 42: Large ribosomal subunit protein eL41B



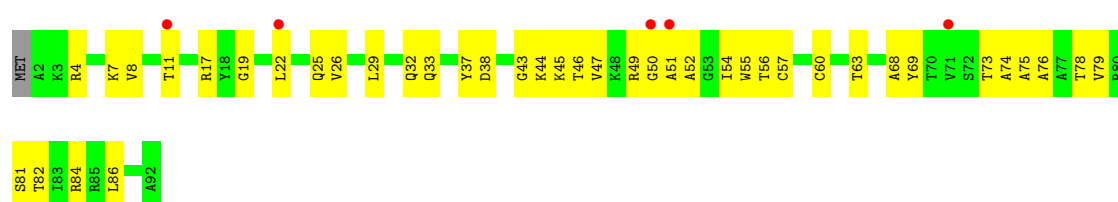
- Molecule 43: 60S ribosomal protein L42-A



- Molecule 43: 60S ribosomal protein L42-A

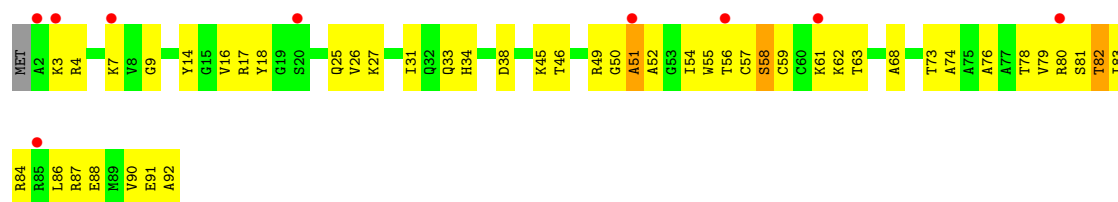


- Molecule 44: 60S ribosomal protein L43-A

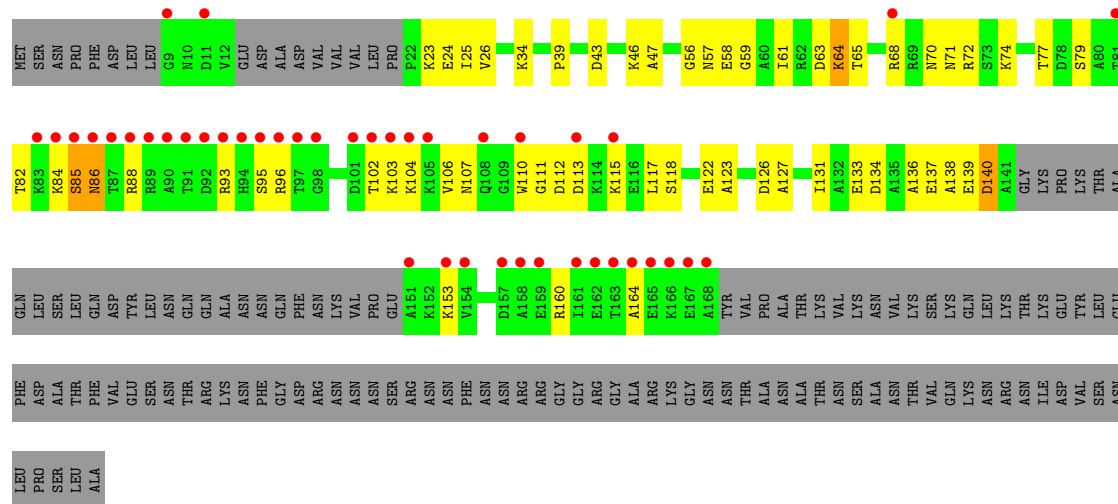
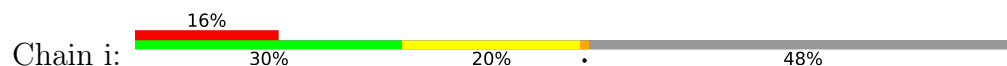


- Molecule 44: 60S ribosomal protein L43-A

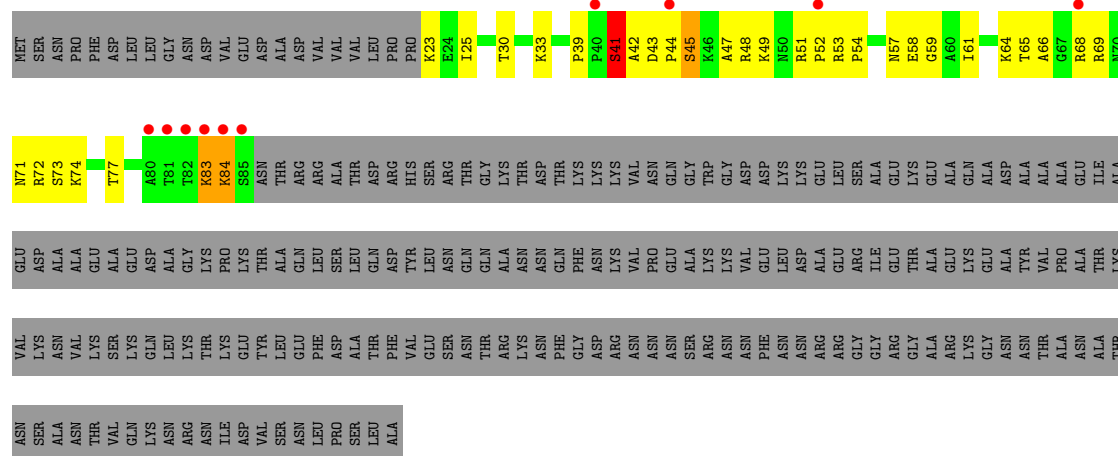




• Molecule 45: Suppressor protein STM1

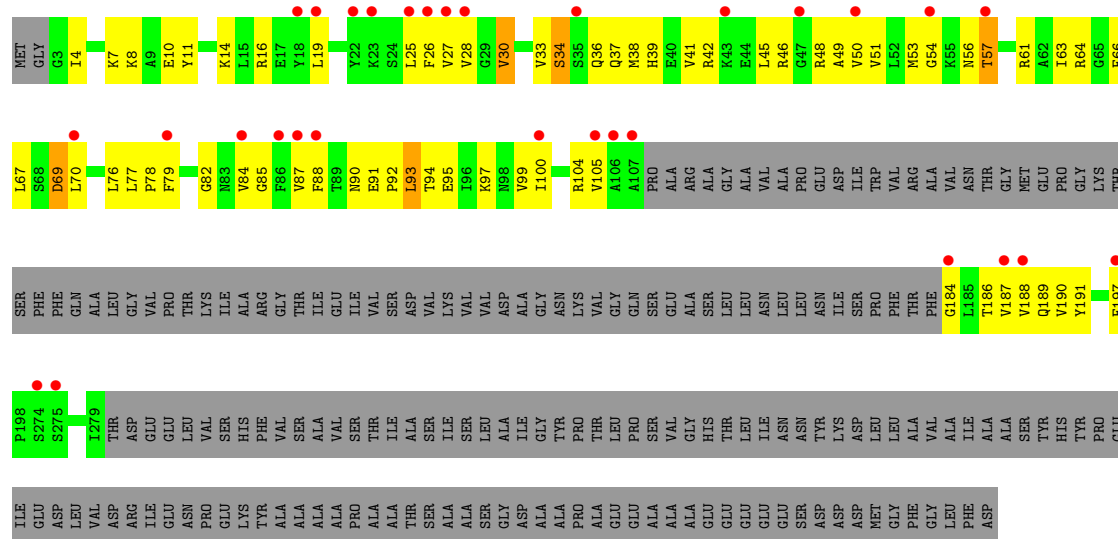


• Molecule 45: Suppressor protein STM1

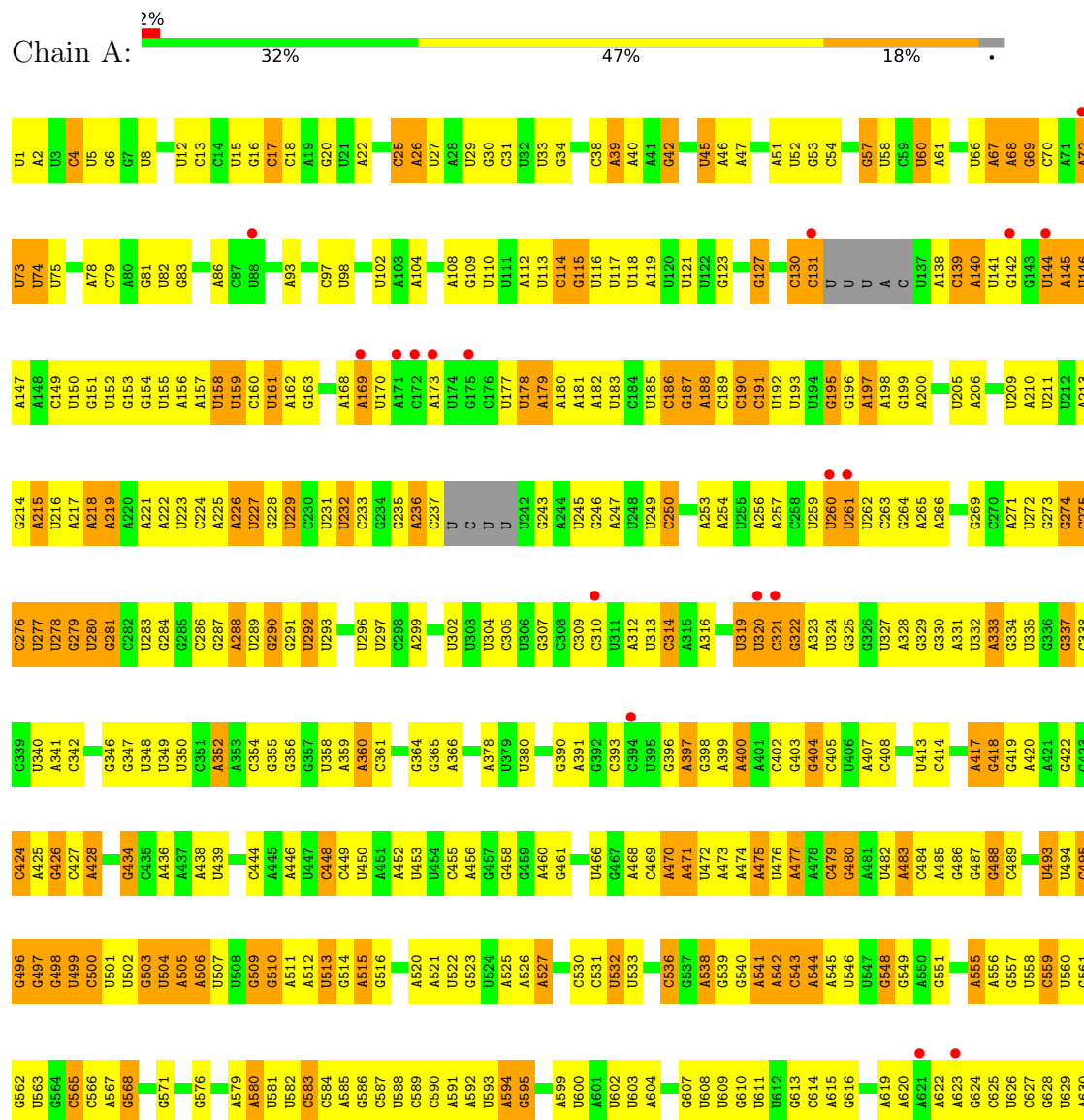


• Molecule 46: 60S acidic ribosomal protein P0

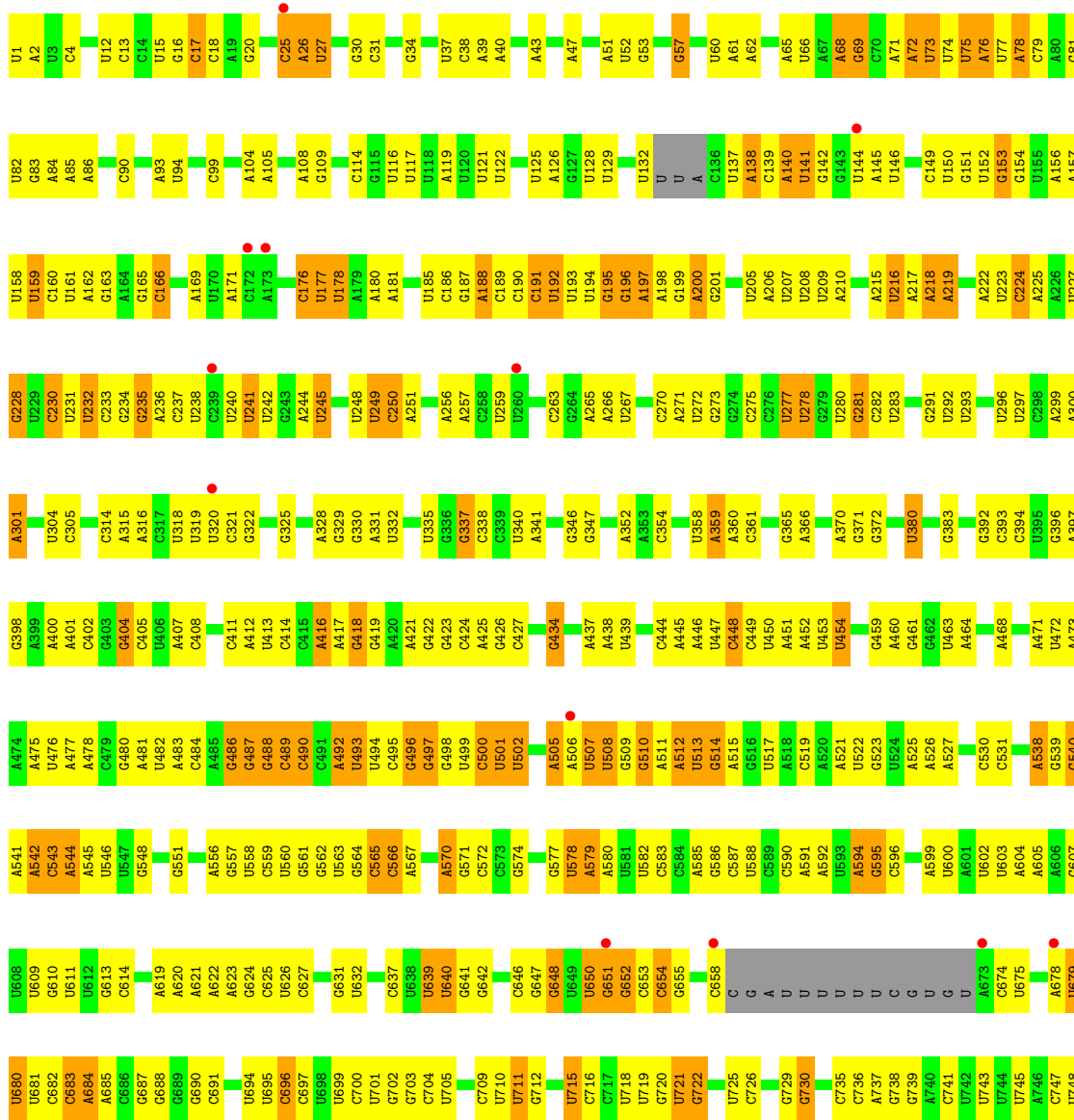




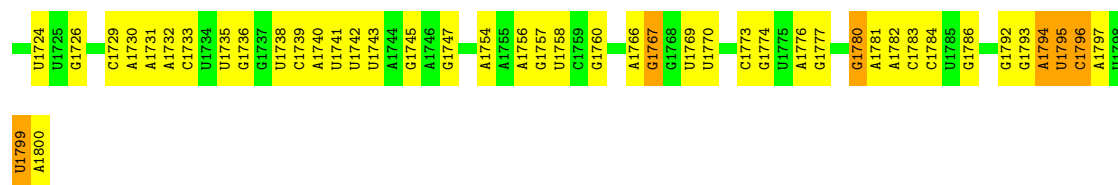
• Molecule 47: 16S ribosomal RNA



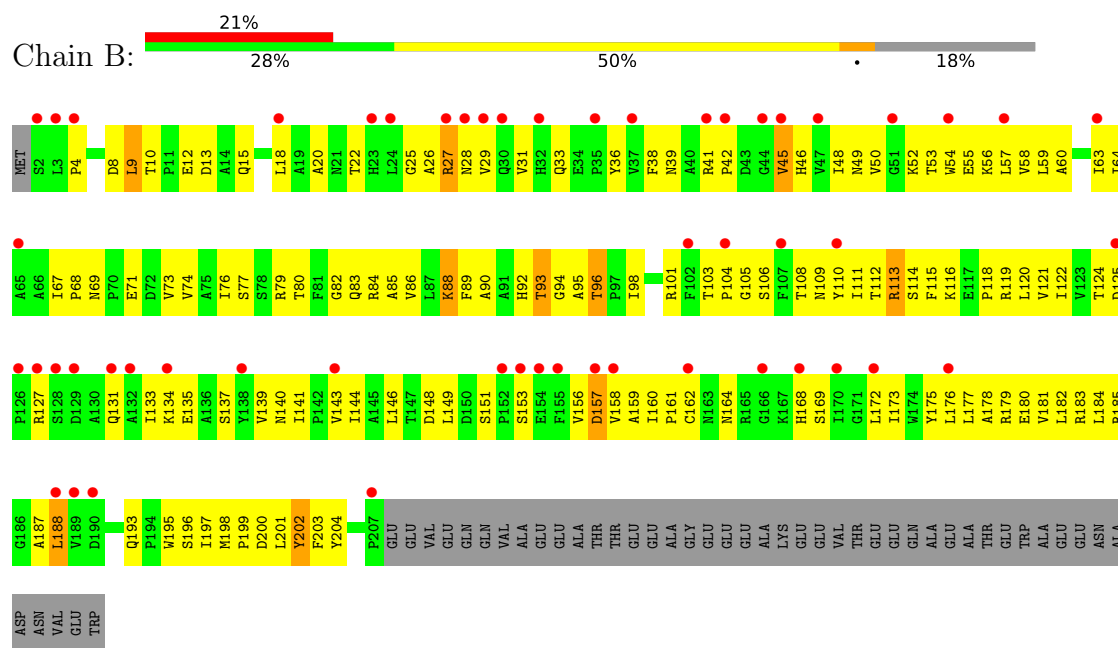
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U1564	U1430	G1363	U1290	A1217	A1061	A906	U838	U766	C700	G633
C1565	G1433	C1364	G1291	A1218	U1062	U912	U839	U767	U701	G634
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U1567	G1435	C1366	U1293	A1219	U1064	G914	U841	G771	G703	A636
C1568	U1436	G1367	G1294	C1220	A1065	A915	U844	G772	C704	C637
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A1583	U1452	G1385	G1318	C1164	C1082	A929	C858	A788	U719	G
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A1586	C1456	U1390	A1321	C1167	U1009	U932	A863	A791	G722	C
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C1618	U1490	U1423	U1356	A1202	G1050	A974	C897	U832	A756	U694
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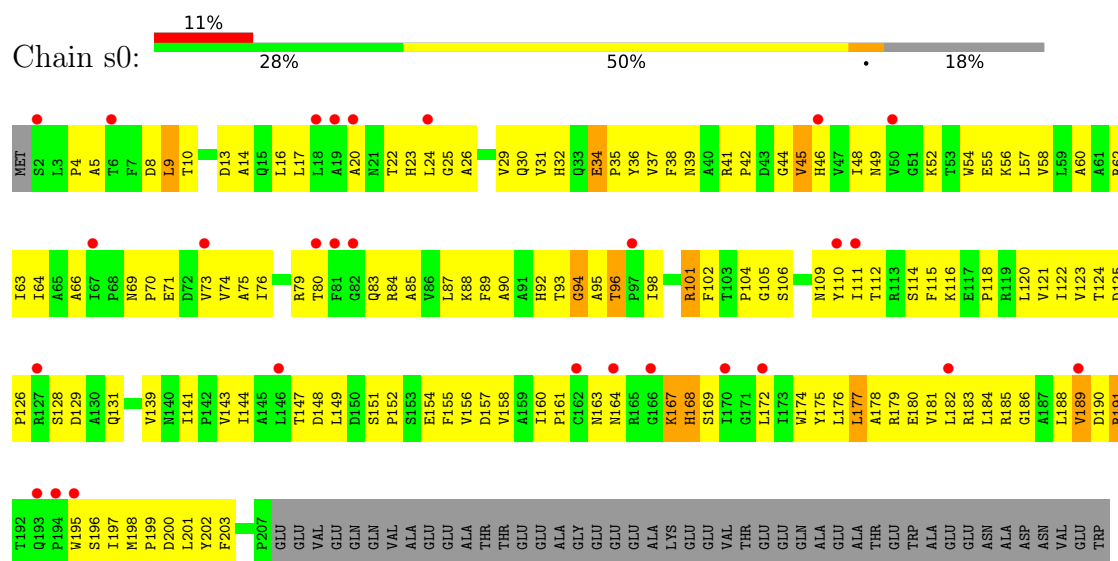
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A1711	U1619	U1556	A1427	U1360	G1291	C1219	U1079	U1004	A803	C870	A803
G1712	C1620	A1557	G1428	U1361	U1292	A1220	A1081	A1005	A804	G871	A804
U1713	U1621	U1558	U1429	U1362	G1293	C1221	U1082	C1006	U808	G872	U808
A1714	G1622	U1559	C1431	G1363	G1294	C1222	C1082	U1009	A809	U873	A809
G1715	C1623	A1560	U1432	C1364	U1297	A1223	G1085	A1013	G810	C874	G810
C1716	U1624	U1561	U1433	U1365	G1298	U1224	A1086	G1014	A811	G875	A811
G1717	U1625	G1562	G1434	G1366	U1299	U1225	U1087	U1015	A812	G876	A812
U1720	U1626	C1563	U1435	U1367	A1300	A1226	A1088	U1016	U813	C877	U813
U1721	G1627	U1564	A1436	U1368	U1305	C1227	A1089	U1017	A814	C878	A814
U1722	U1628	C1565	U1437	A1370	U1311	U1228	A1091	U1018	A815	C879	A815
U1723	U1629	U1566	G1438	A1371	A1312	G1229	A1092	U1019	A816	C880	A816
U1724	G1629	U1567	C1439	U1372	A1313	A1230	A1093	A1020	A817	C881	A817
U1725	U1630	A1568	U1503	A1373	U1314	U1231	G1094	A1021	A818	C882	A818
U1726	C1631	U1569	G1504	C1374	U1315	U1232	U1168	A1022	A819	C883	A819
U1727	U1632	A1569	A1505	C1375	U1316	G1233	U1169	A1023	A820	C884	A820
U1728	G1633	U1570	A1444	C1376	G1316	A1234	U1170	A1024	A821	C885	A821
U1729	U1634	U1571	G1506	C1377	G1317	U1235	U1171	A1025	A822	C886	A822
U1730	C1634	U1572	G1507	C1378	G1318	U1236	U1172	A1026	A823	C887	A823
U1731	U1635	U1573	A1445	C1379	G1319	U1237	U1173	A1027	A824	C888	A824
U1732	G1636	U1574	G1508	C1380	G1320	U1238	U1174	A1028	A825	C889	A825
U1733	U1637	U1575	U1446	U1381	G1321	U1239	U1175	A1029	A826	C890	A826
U1734	C1638	U1576	G1509	U1382	G1322	U1240	U1176	A1030	A827	C891	A827
U1735	U1639	U1577	A1510	G1383	G1323	U1241	U1177	A1031	A828	C892	A828
U1736	C1640	U1578	U1511	U1384	G1324	U1242	U1178	A1032	A829	C893	A829
U1737	U1641	U1579	U1512	U1385	G1325	U1243	U1179	A1033	A830	C894	A830
U1738	G1642	U1580	U1513	G1386	G1326	U1244	U1180	A1034	A831	C895	A831
U1739	U1643	U1581	U1514	U1387	G1327	U1245	U1181	A1035	A832	C896	A832
U1740	C1644	U1582	U1515	U1388	G1328	U1246	U1182	A1036	A833	C897	A833
U1741	U1645	U1583	U1516	U1389	G1329	U1247	U1183	A1037	A834	C898	A834
U1742	G1646	U1584	U1517	U1390	G1330	U1248	U1184	A1038	A835	C899	A835
U1743	U1647	U1585	U1518	U1391	U1331	U1249	U1185	A1039	A836	C900	A836
U1744	C1648	U1586	U1519	U1392	U1332	U1250	U1186	A1040	A837	C901	A837
U1745	U1649	U1587	U1520	U1393	U1333	U1251	U1187	A1041	A838	C902	A838
U1746	G1650	U1588	U1521	U1394	U1334	U1252	U1188	A1042	A839	C903	A839
U1747	U1651	U1589	U1522	U1395	U1335	U1253	U1189	A1043	A840	C904	A840
U1748	C1652	U1590	U1523	U1396	U1336	U1254	U1190	A1044	A841	C905	A841
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U1750	G1654	U1592	U1525	U1398	U1338	U1256	U1192	A1046	A843	C907	A843
U1751	U1655	A1593	U1526	U1399	U1339	U1257	U1193	A1047	A844	C908	A844
U1752	C1656	U1594	U1527	U1400	U1340	U1258	U1194	A1048	A845	C909	A845
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U1756	C1660	U1598	U1531	U1404	U1344	U1262	U1198	A1052	A849	C913	A849
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U1758	G1662	U1600	U1533	U1406	U1346	U1264	U1200	A1054	A851	C915	A851
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U1762	G1666	U1604	U1537	U1410	U1350	U1268	U1204	A1058	A855	C919	A855
U1763	U1667	U1605	U1538	U1411	U1351	U1269	U1205	A1059	A856	C920	A856
U1764	C1668	U1606	U1539	U1412	U1352	U1270	U1206	A1060	A857	C921	A857
U1765	U1669	U1607	U1540	U1413	U1353	U1271	U1207	A1061	A858	C922	A858
U1766	G1670	U1608	U1541	U1414	U1354	U1272	U1208	A1062	A859	C923	A859
U1767	U1671	U1609	U1542	U1415	U1355	U1273	U1209	A1063	A860	C924	A860
U1768	C1672	U1610	U1543	U1416	U1356	U1274	U1210	A1064	A861	C925	A861
U1769	U1673	U1611	U1544	U1417	U1357	U1275	U1211	A1065	A862	C926	A862
U1770	G1674	U1612	U1545	U1418	U1358	U1276	U1212	A1066	A863	C927	A863
U1771	U1675	U1613	U1546	U1419	U1359	U1277	U1213	A1067	A864	C928	A864
U1772	C1676	U1614	U1547	U1420	U1360	U1278	U1214	A1068	A865	C929	A865
U1773	U1677	U1615	U1548	U1421	U1361	U1279	U1215	A1069	A866	C930	A866
U1774	G1678	U1616	U1549	U1422	U1362	U1280	U1216	A1070	A867	C931	A867
U1775	U1679	U1617	U1550	U1423	U1363	U1281	U1217	A1071	A868	C932	A868
U1776	C1679	U1618	U1551	U1424	U1364	U1282	U1218	A1072	A869	C933	A869
U1777											



• Molecule 48: 40S ribosomal protein S0-A

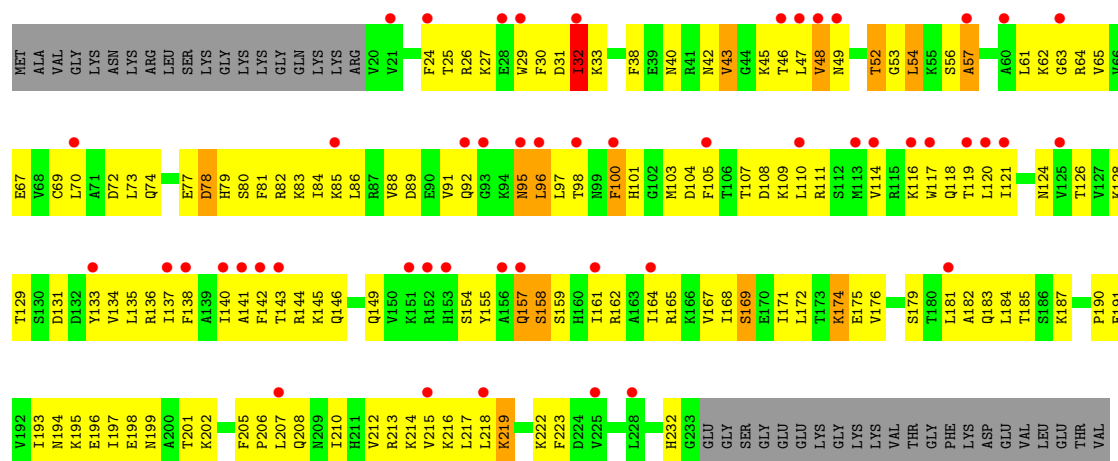


• Molecule 48: 40S ribosomal protein S0-A

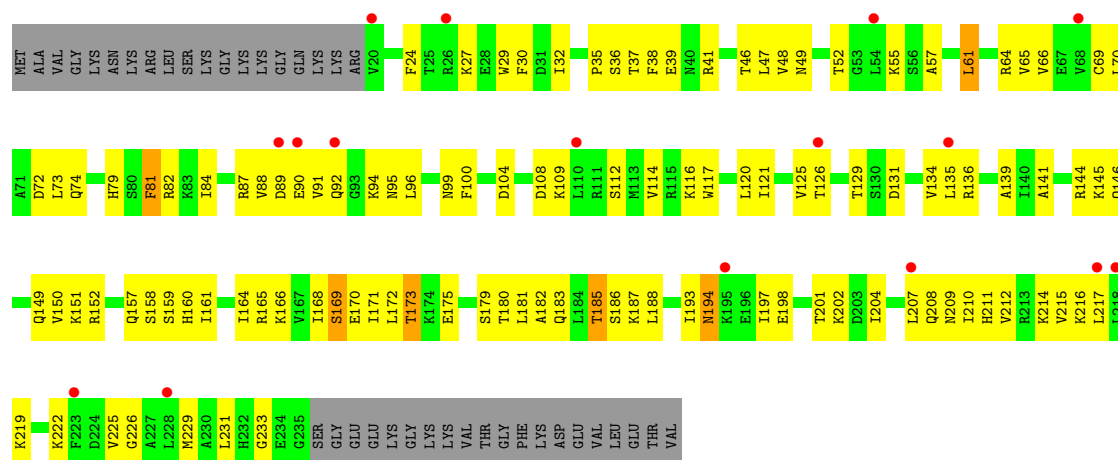


• Molecule 49: 40S ribosomal protein S1-A

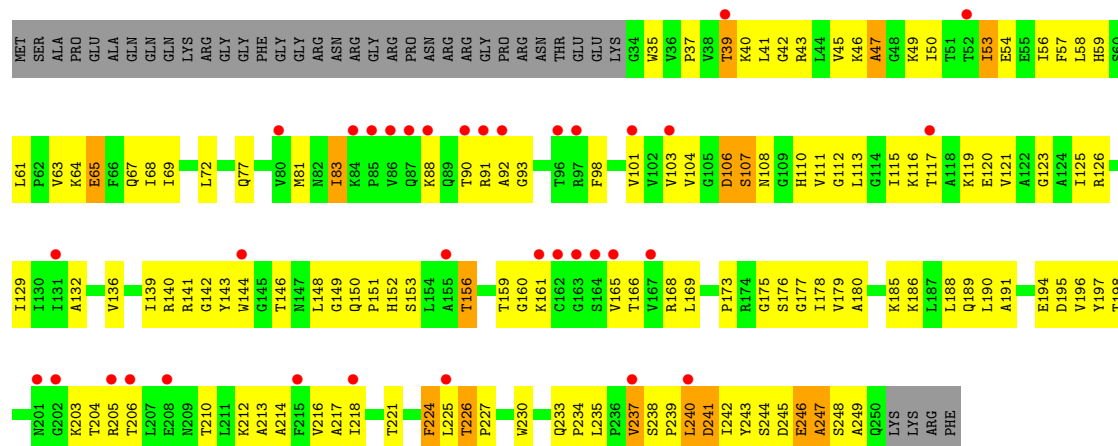




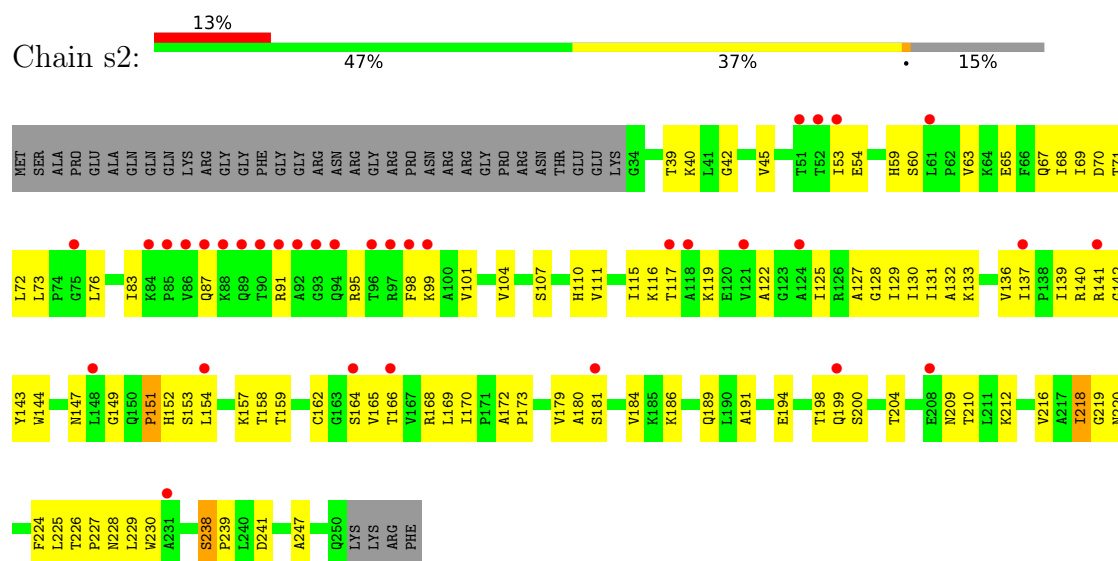
• Molecule 49: 40S ribosomal protein S1-A



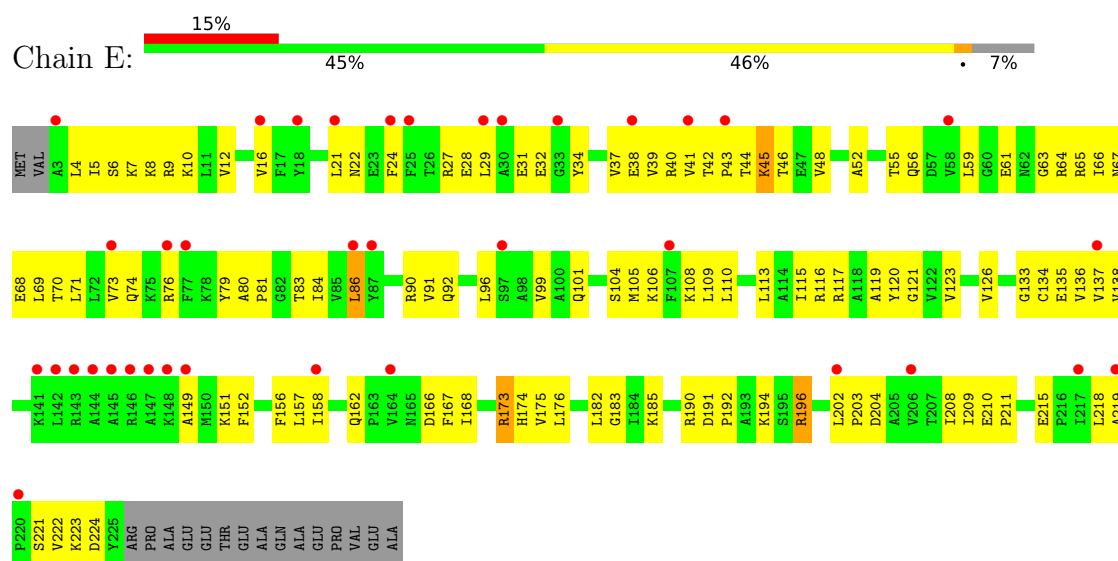
• Molecule 50: 40S ribosomal protein S2



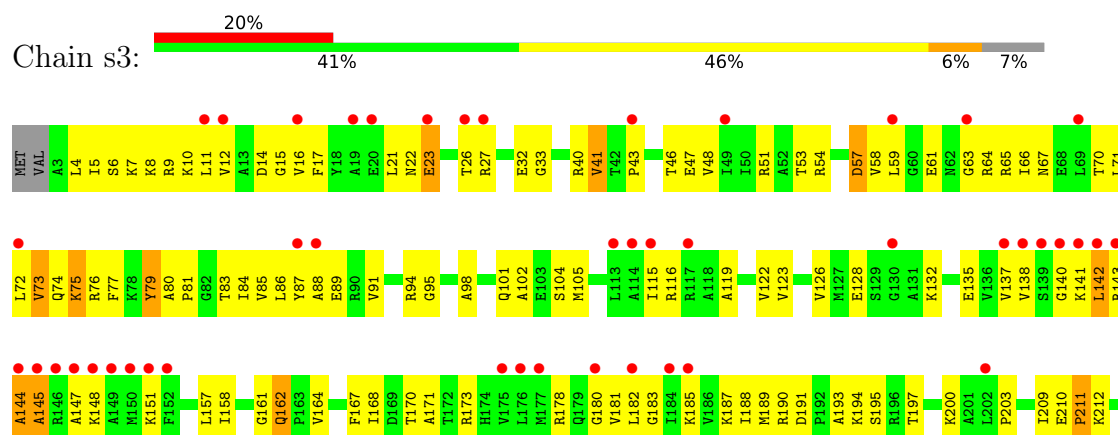
• Molecule 50: 40S ribosomal protein S2

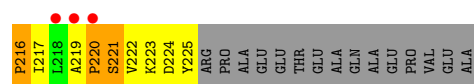


• Molecule 51: Small ribosomal subunit protein uS3

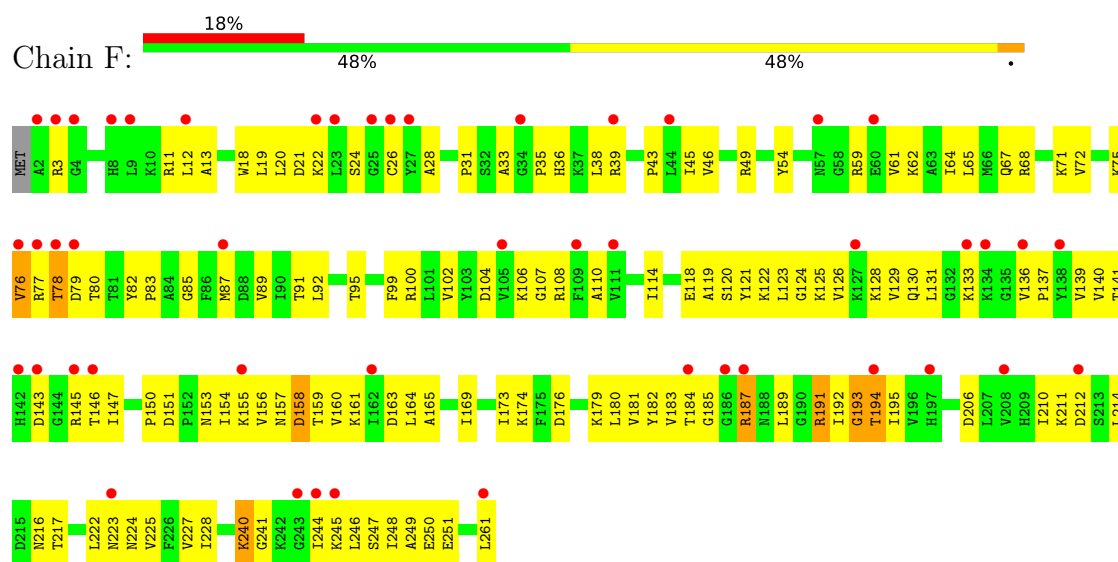


• Molecule 51: Small ribosomal subunit protein uS3

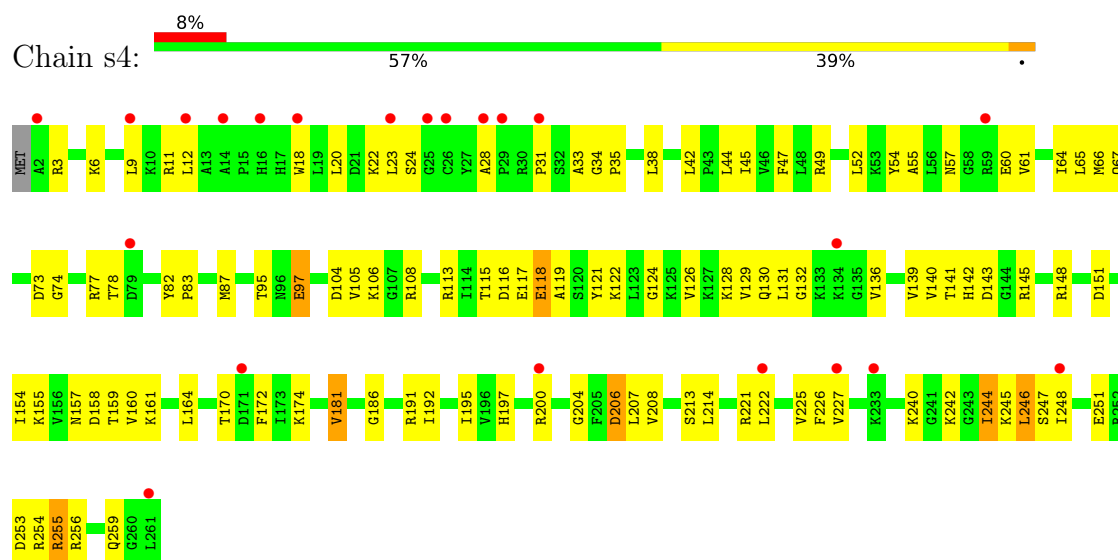




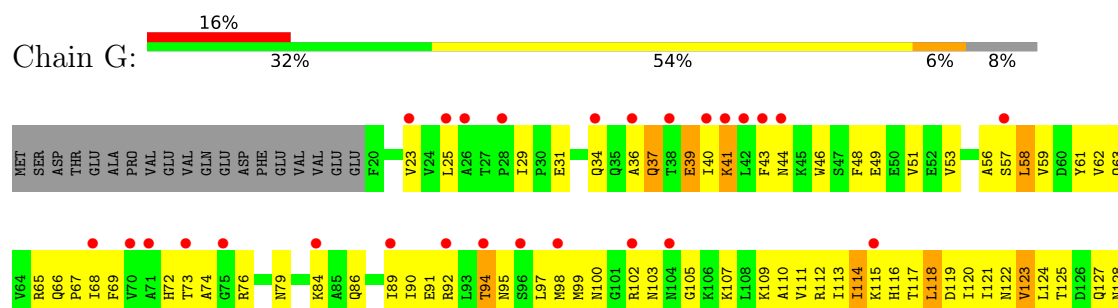
• Molecule 52: 40S ribosomal protein S4-A

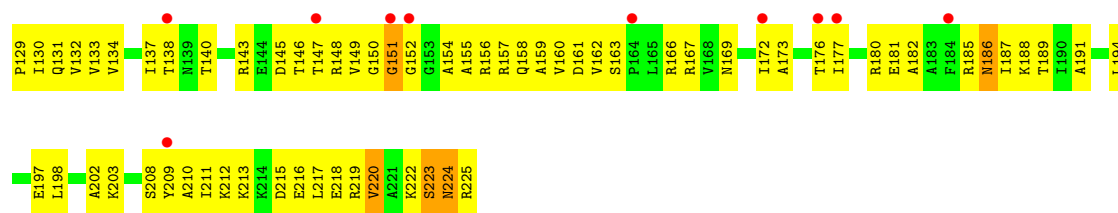


• Molecule 52: 40S ribosomal protein S4-A

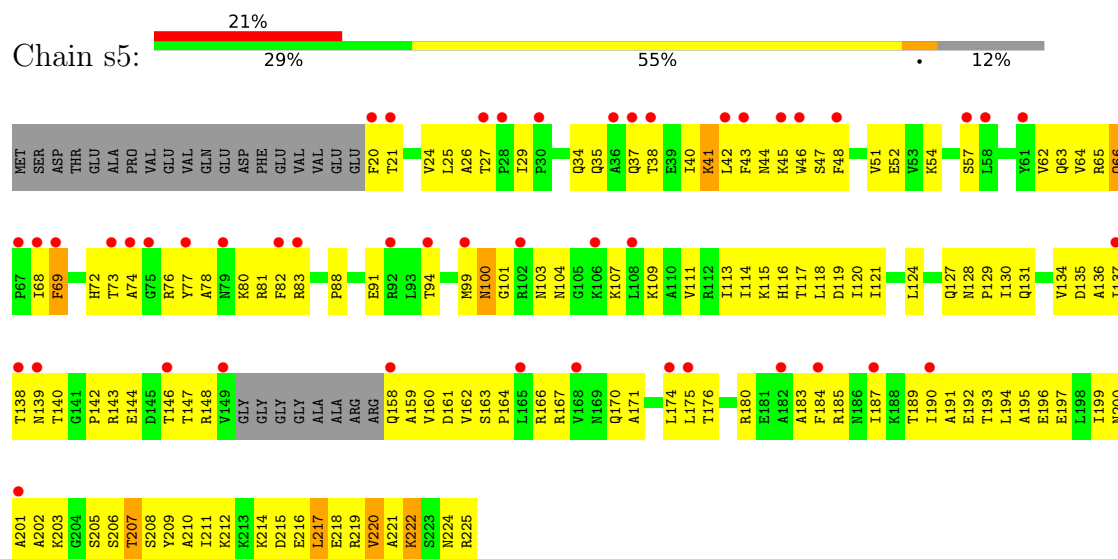


• Molecule 53: 40S ribosomal protein S5

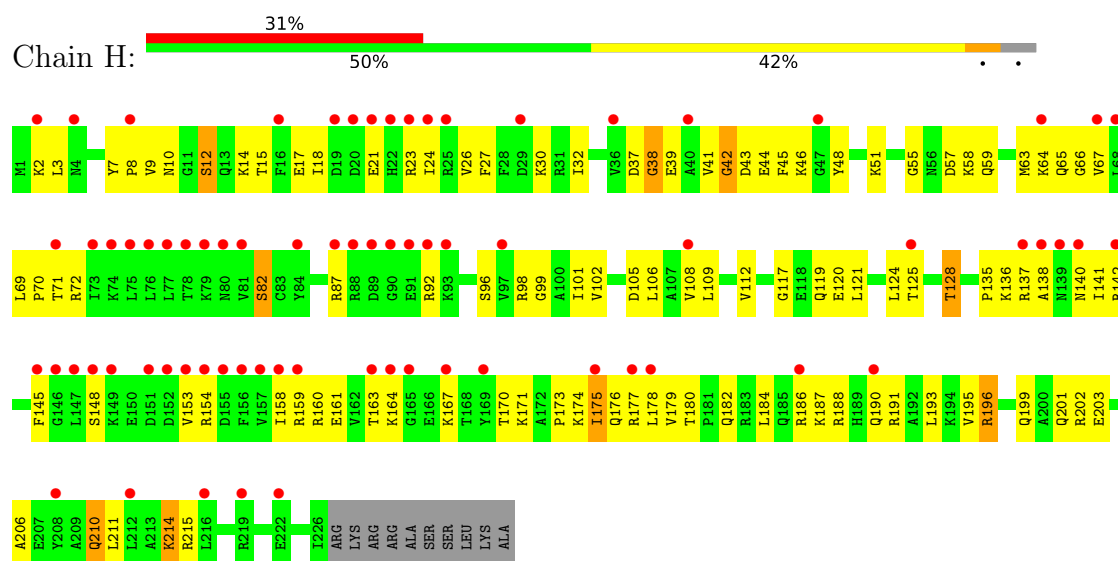




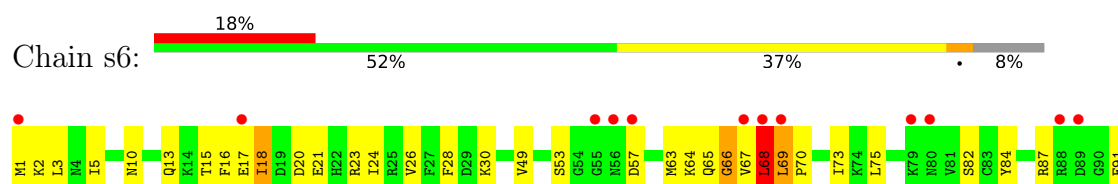
• Molecule 53: 40S ribosomal protein S5

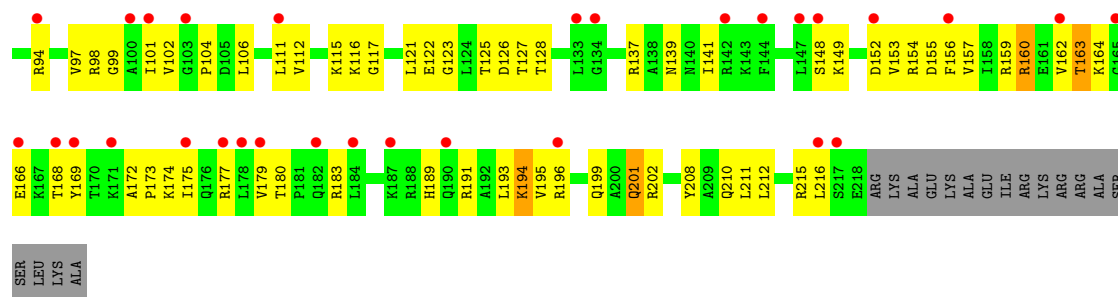


• Molecule 54: 40S ribosomal protein S6-A

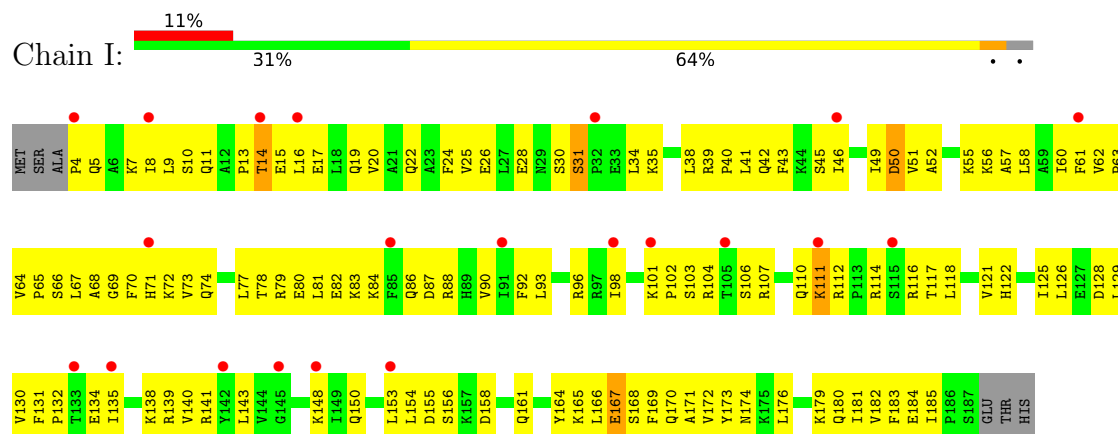


• Molecule 54: 40S ribosomal protein S6-A

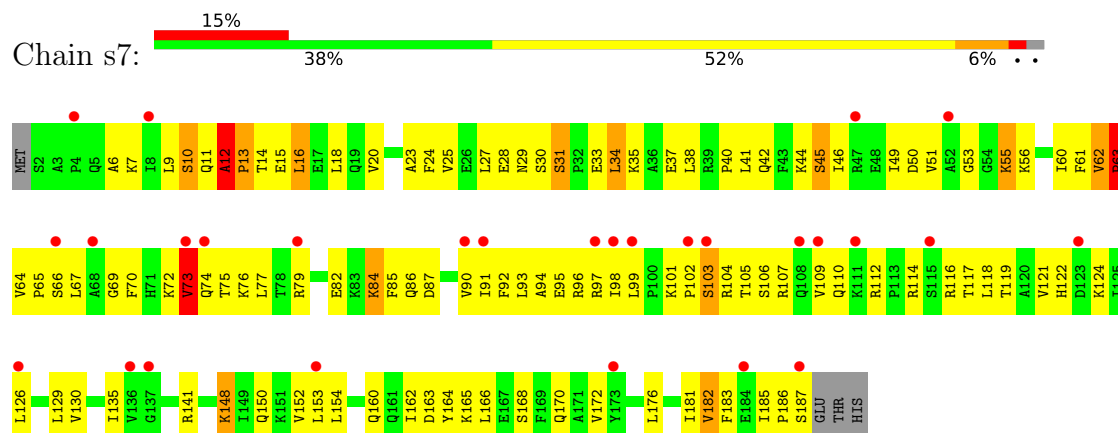




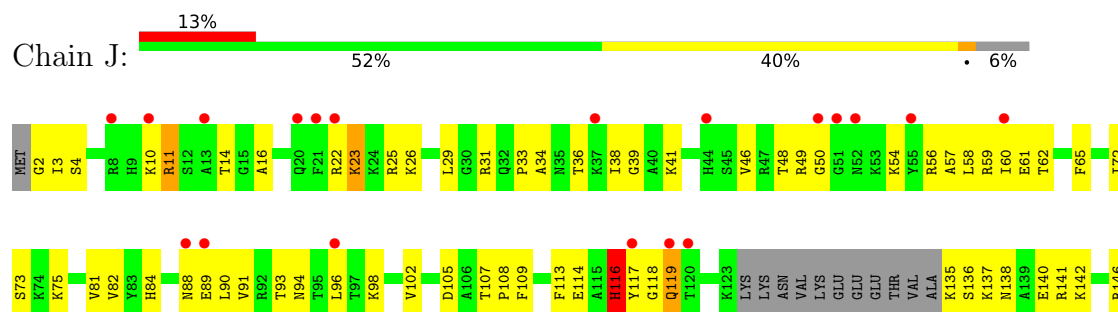
• Molecule 55: 40S ribosomal protein S7-A

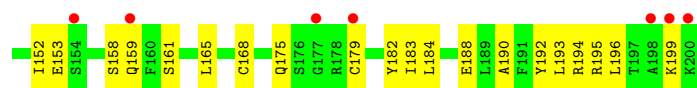


• Molecule 55: 40S ribosomal protein S7-A

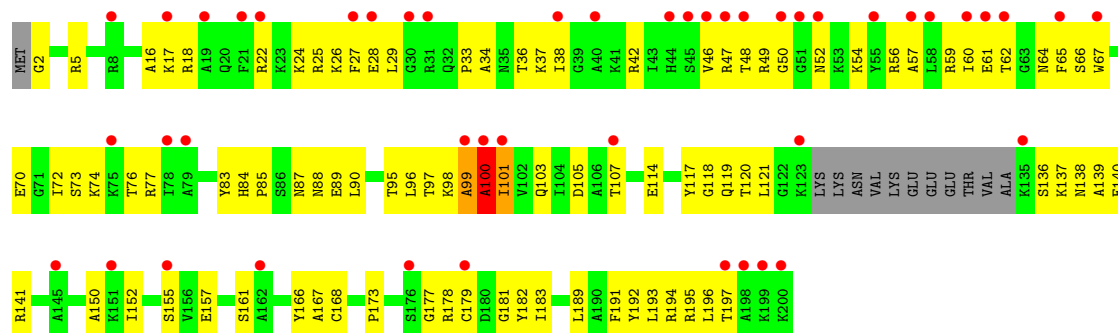


• Molecule 56: 40S ribosomal protein S8-A

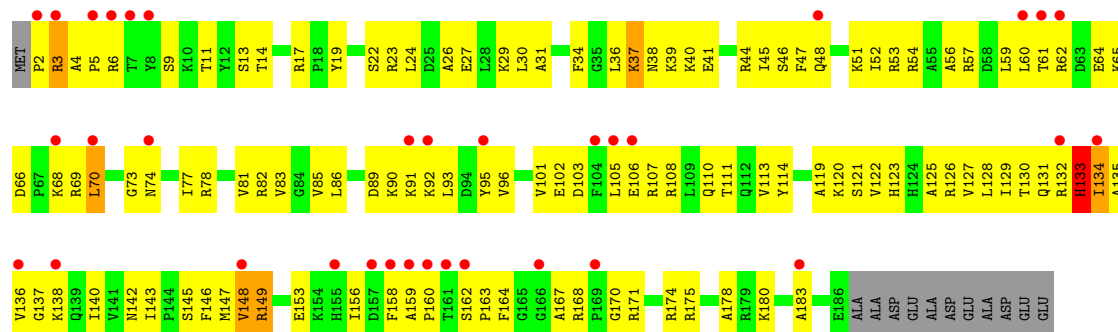




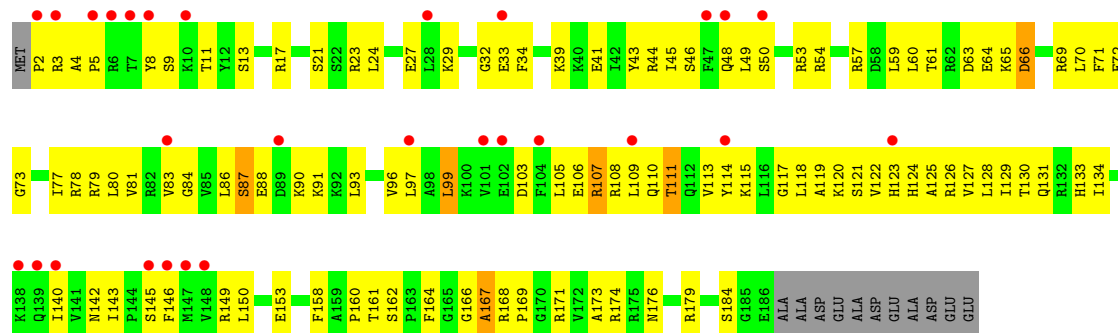
• Molecule 56: 40S ribosomal protein S8-A



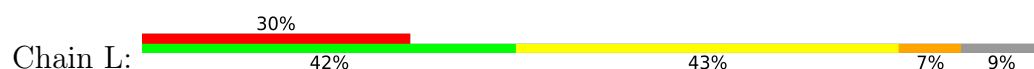
• Molecule 57: 40S ribosomal protein S9-A

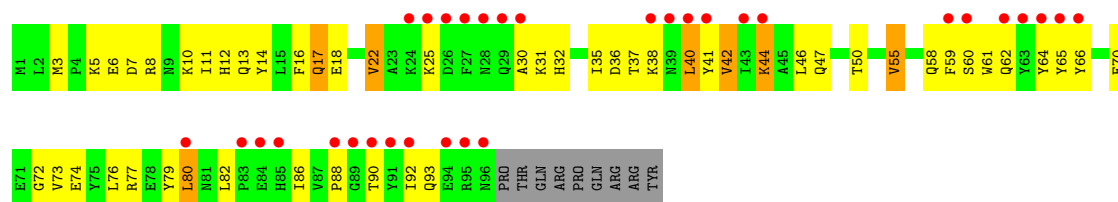


• Molecule 57: 40S ribosomal protein S9-A

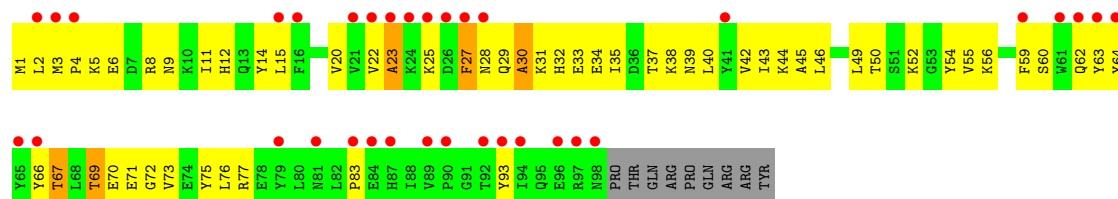


• Molecule 58: 40S ribosomal protein S10-A

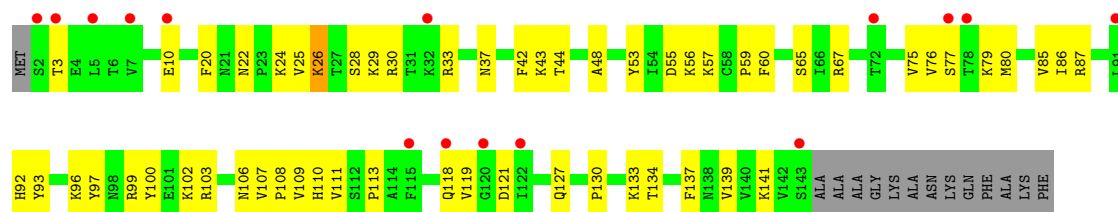




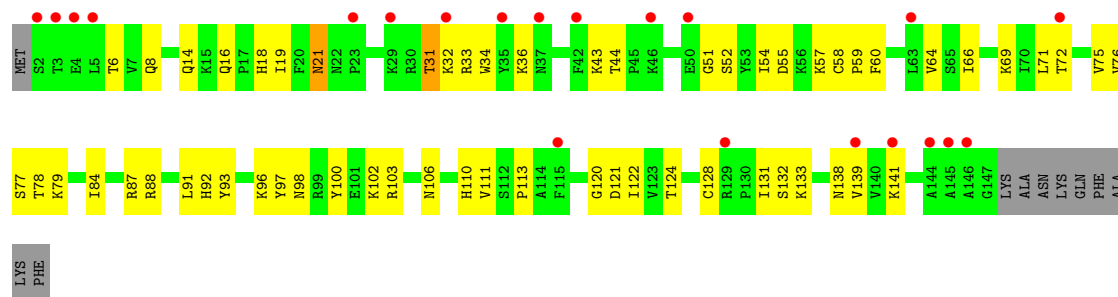
• Molecule 58: 40S ribosomal protein S10-A



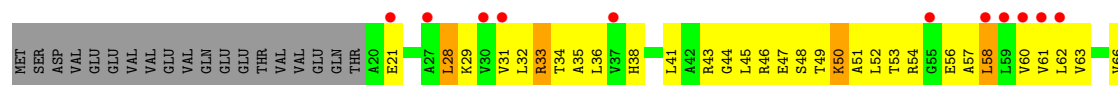
• Molecule 59: 40S ribosomal protein S11-A

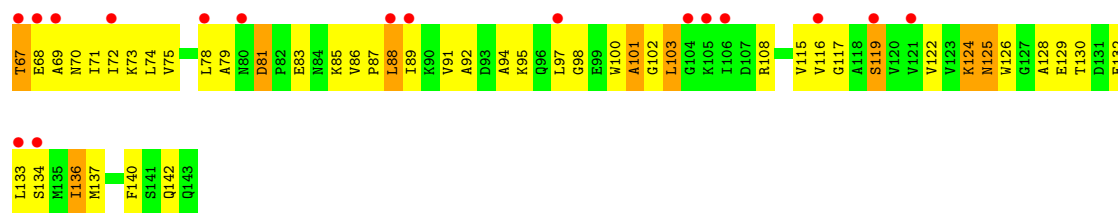


• Molecule 59: 40S ribosomal protein S11-A

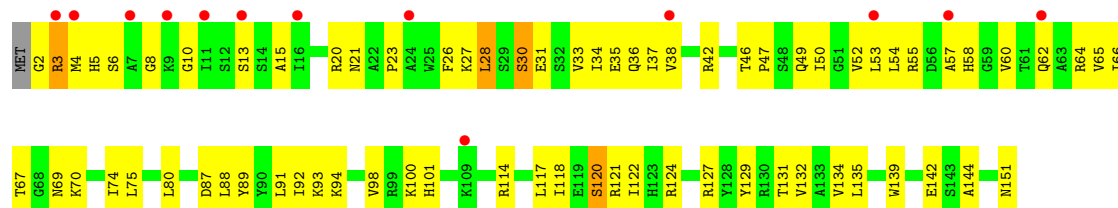


• Molecule 60: 40S ribosomal protein S12

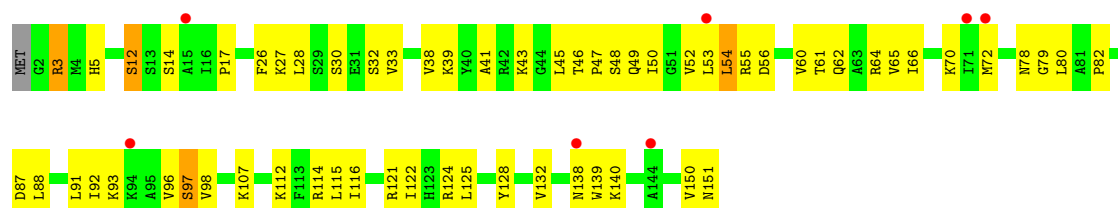




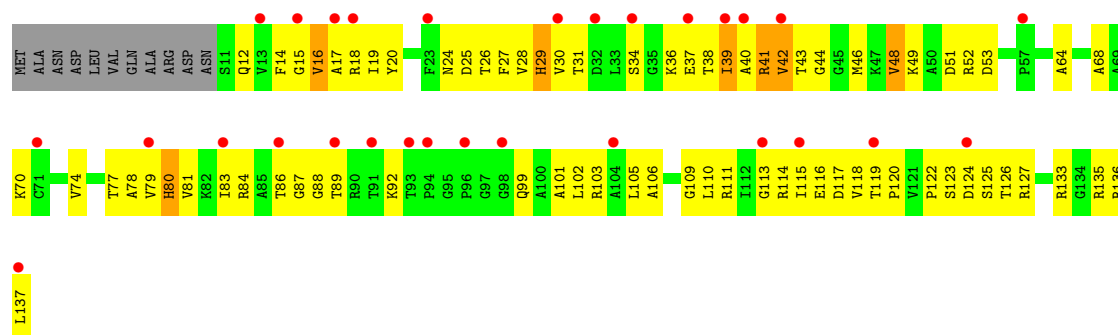
- Molecule 61: 40S ribosomal protein S13



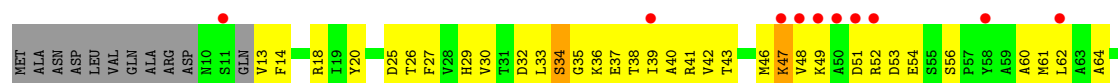
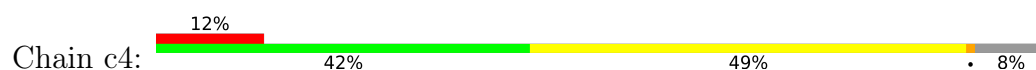
- Molecule 61: 40S ribosomal protein S13



- Molecule 62: 40S ribosomal protein S14-B

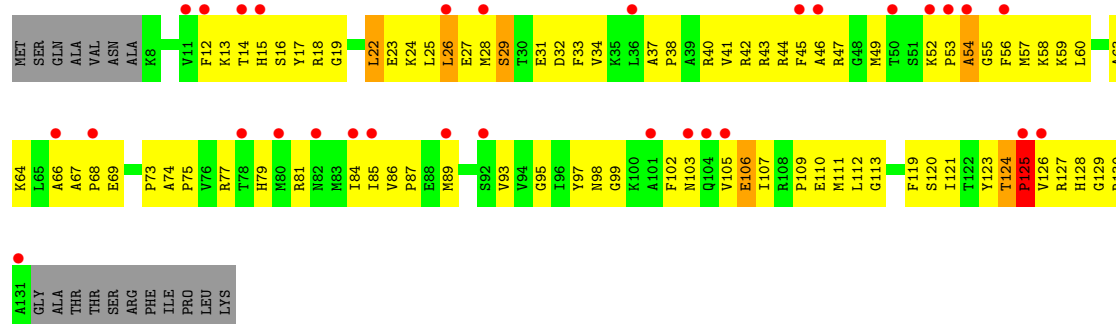


- Molecule 62: 40S ribosomal protein S14-B

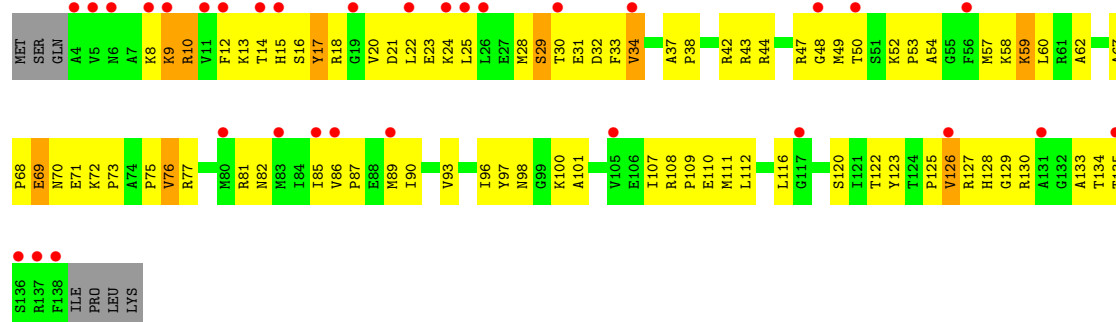
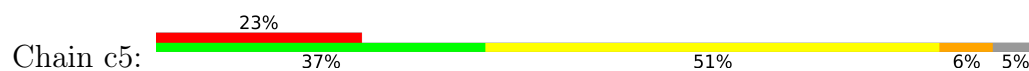




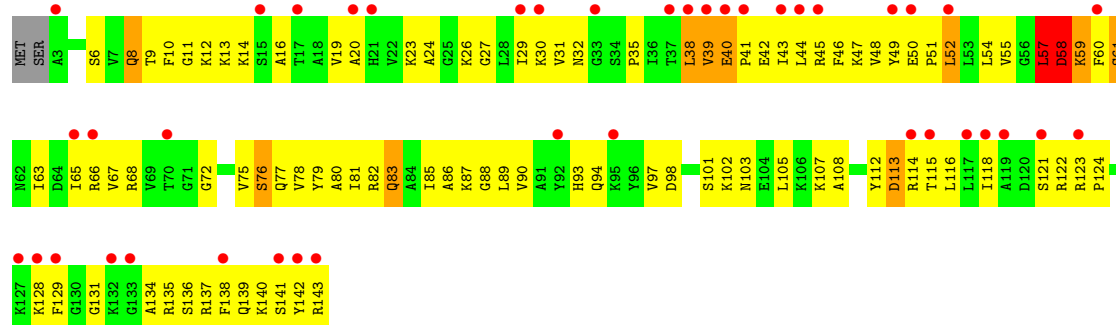
• Molecule 63: 40S ribosomal protein S15



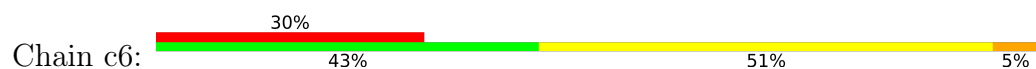
• Molecule 63: 40S ribosomal protein S15

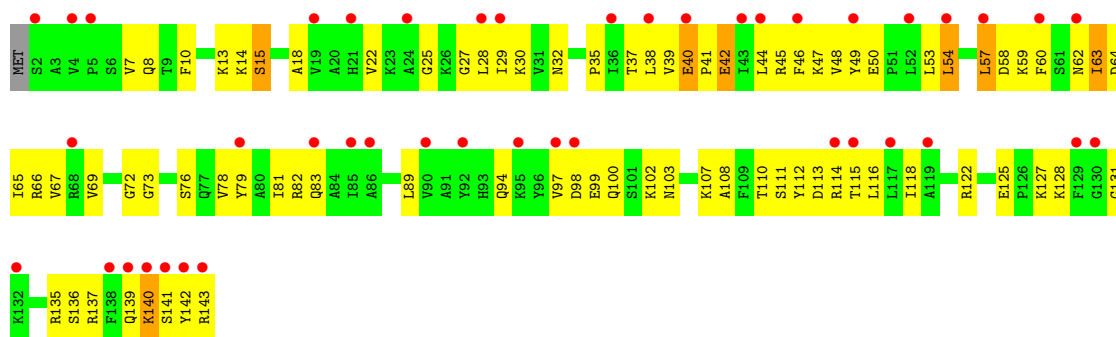


• Molecule 64: 40S ribosomal protein S16-A

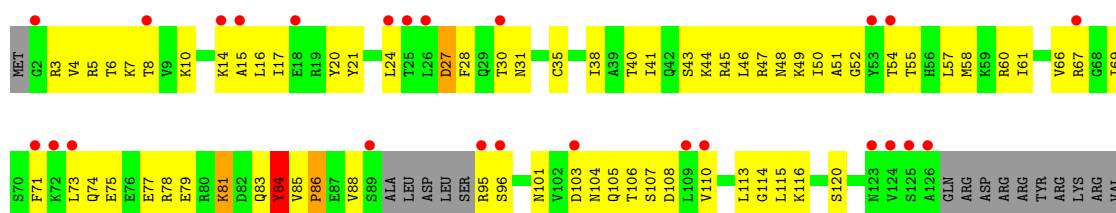


• Molecule 64: 40S ribosomal protein S16-A

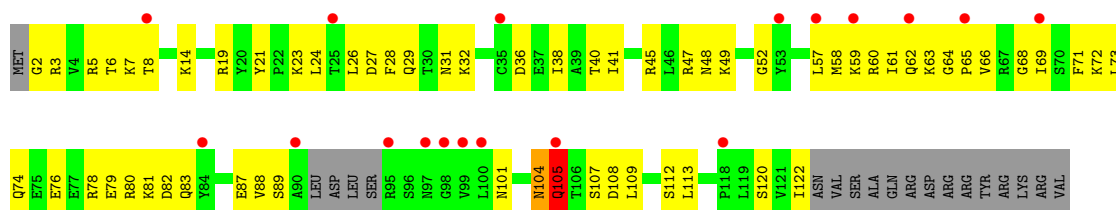




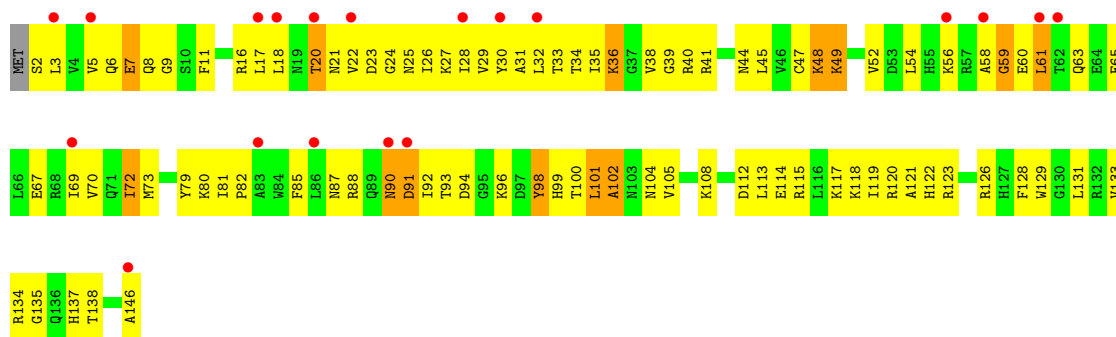
• Molecule 65: 40S ribosomal protein S17-A



• Molecule 65: 40S ribosomal protein S17-A

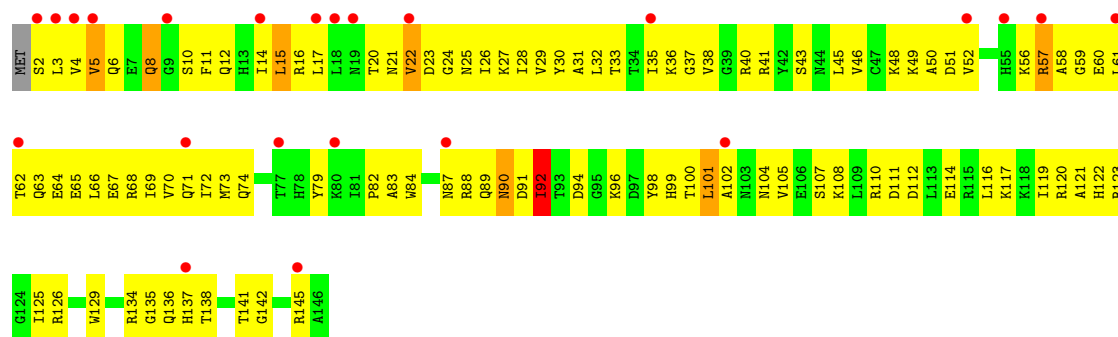


• Molecule 66: 40S ribosomal protein S18-A

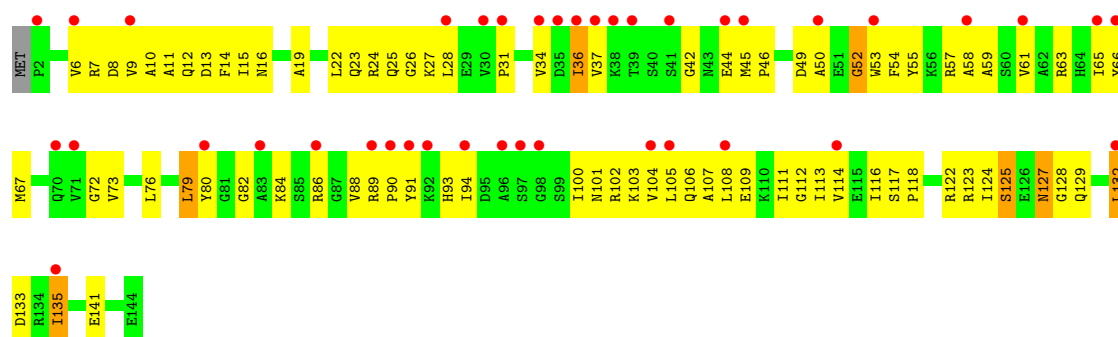
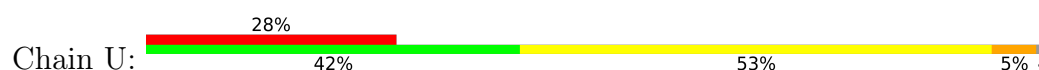


• Molecule 66: 40S ribosomal protein S18-A

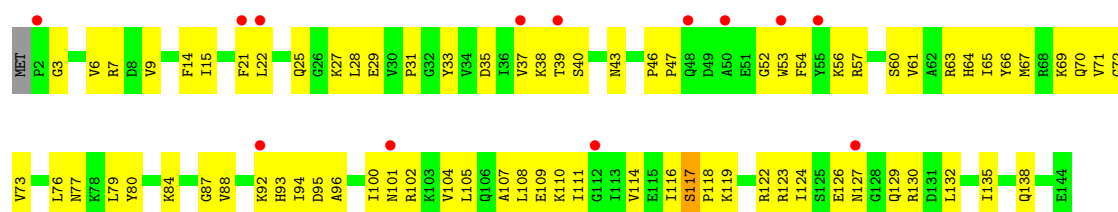




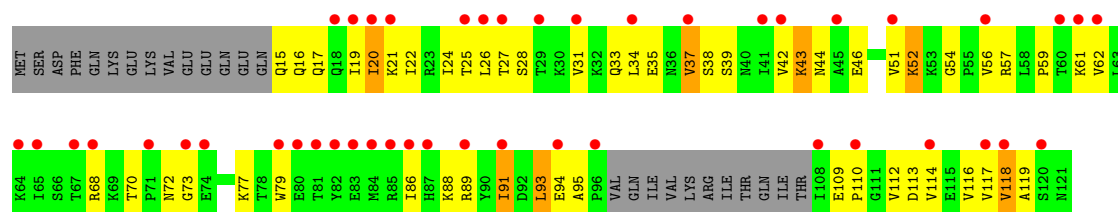
• Molecule 67: 40S ribosomal protein S19-A



• Molecule 67: 40S ribosomal protein S19-A

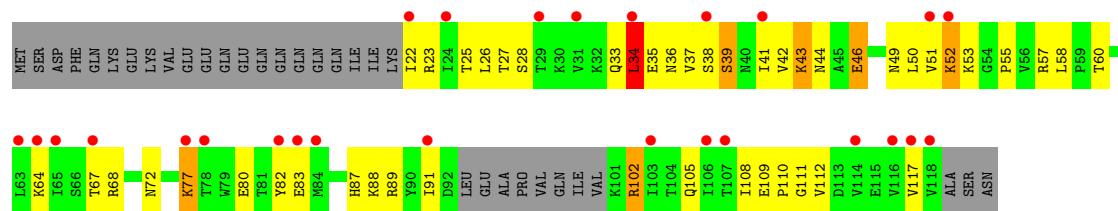


• Molecule 68: Small ribosomal subunit protein uS10



• Molecule 68: Small ribosomal subunit protein uS10

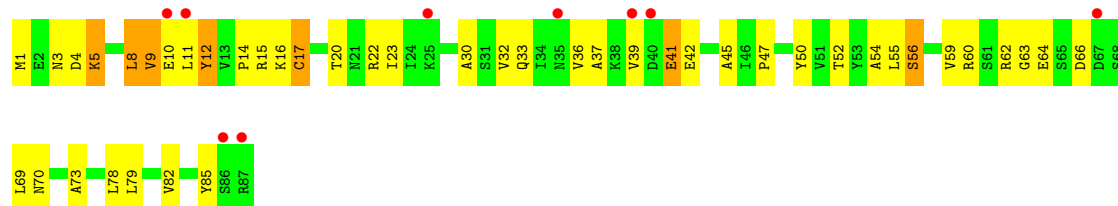




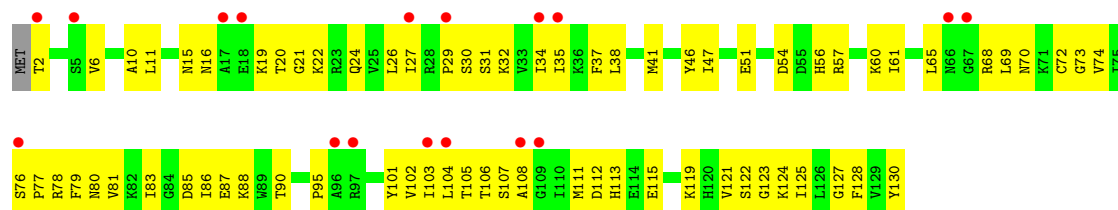
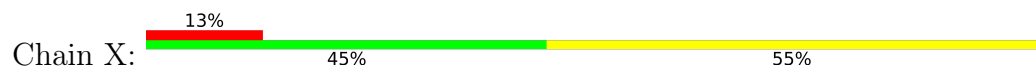
• Molecule 69: 40S ribosomal protein S21-A



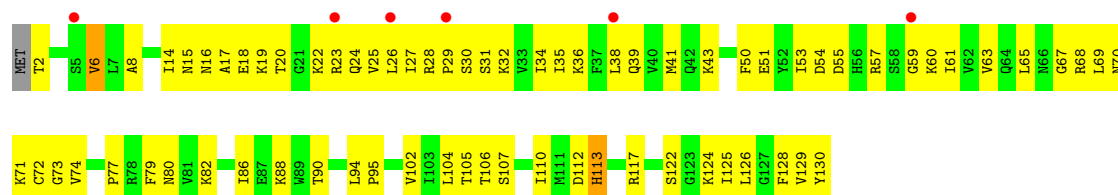
• Molecule 69: 40S ribosomal protein S21-A



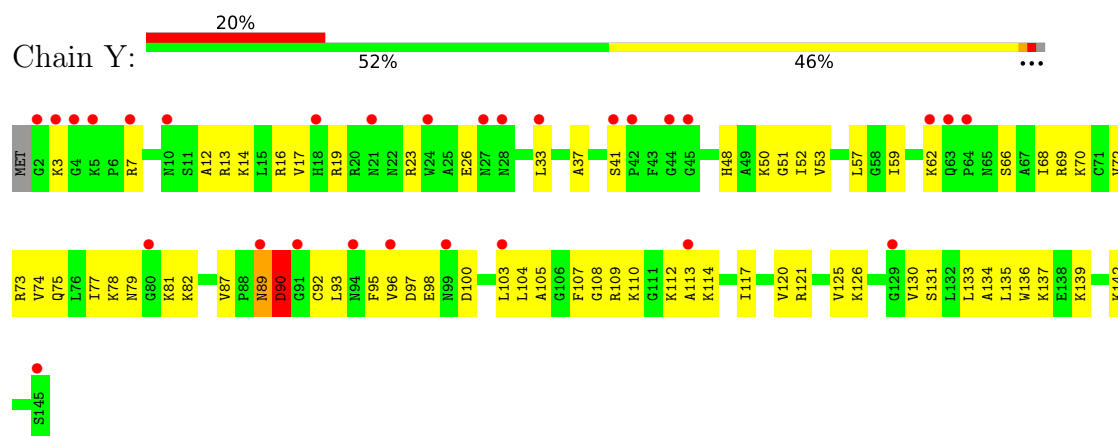
• Molecule 70: 40S ribosomal protein S22-A



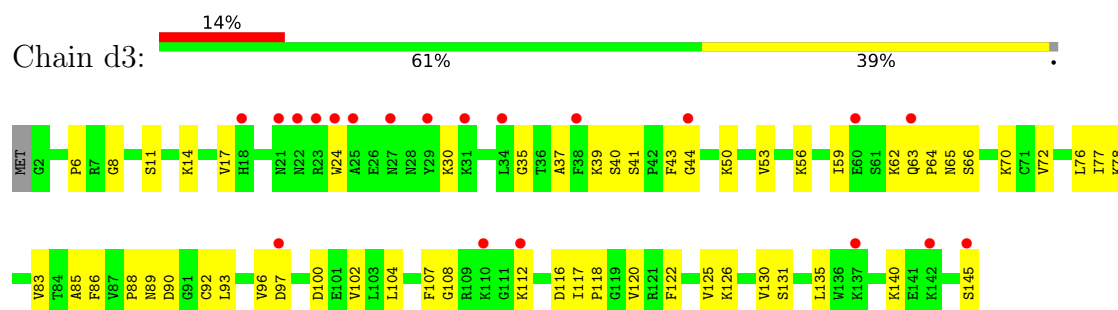
• Molecule 70: 40S ribosomal protein S22-A



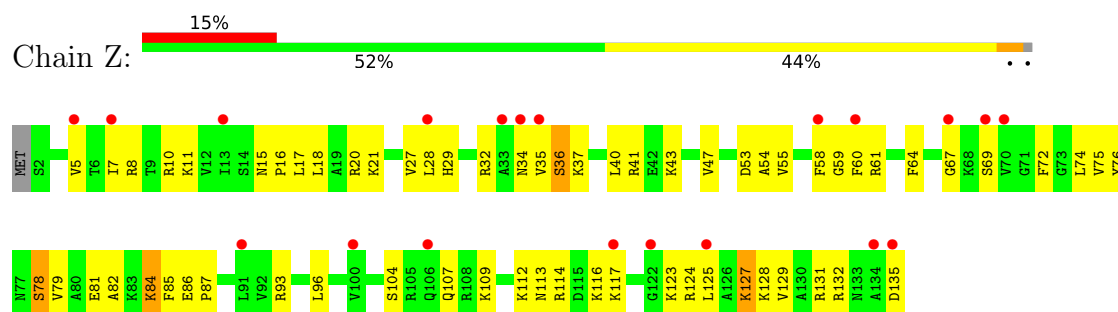
- Molecule 71: 40S ribosomal protein S23-A



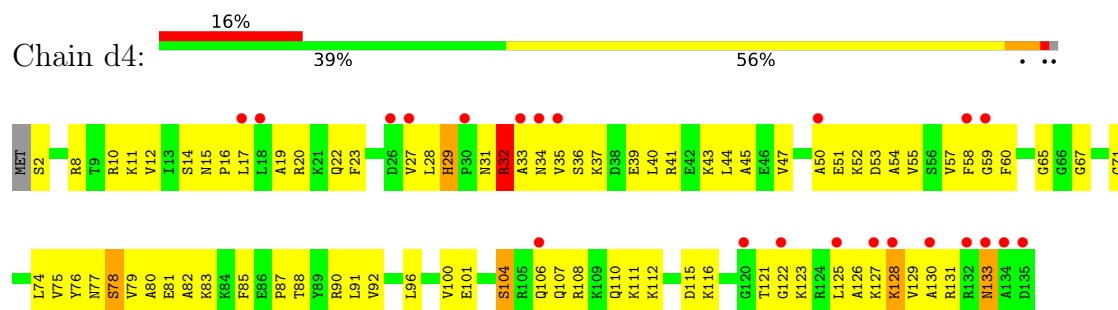
- Molecule 71: 40S ribosomal protein S23-A



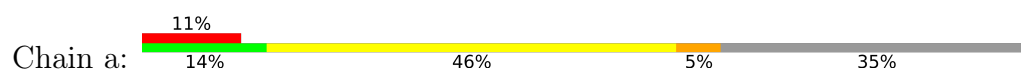
- Molecule 72: 40S ribosomal protein S24-A

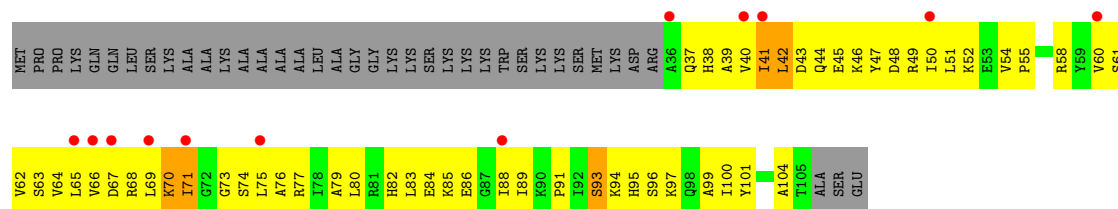


- Molecule 72: 40S ribosomal protein S24-A

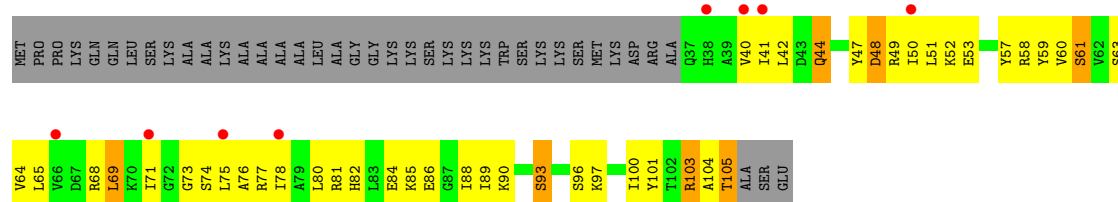
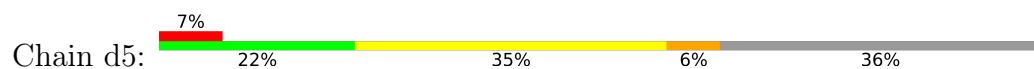


- Molecule 73: 40S ribosomal protein S25-A

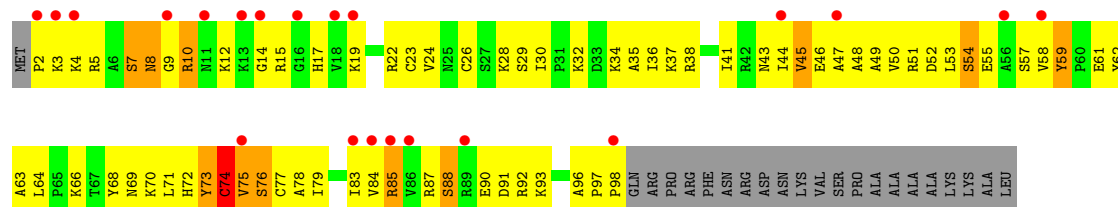
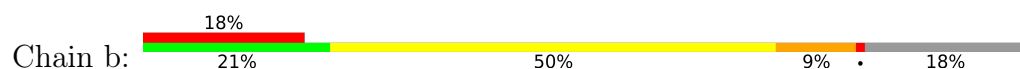




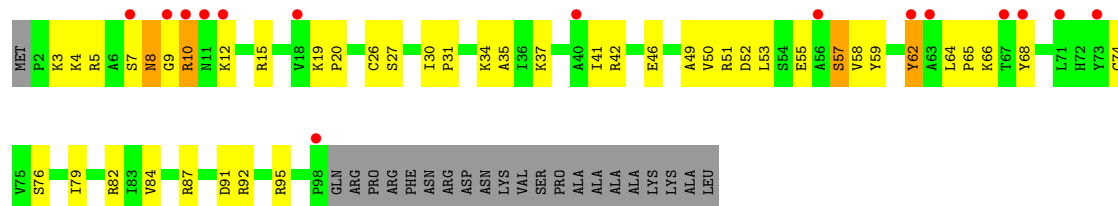
• Molecule 73: 40S ribosomal protein S25-A



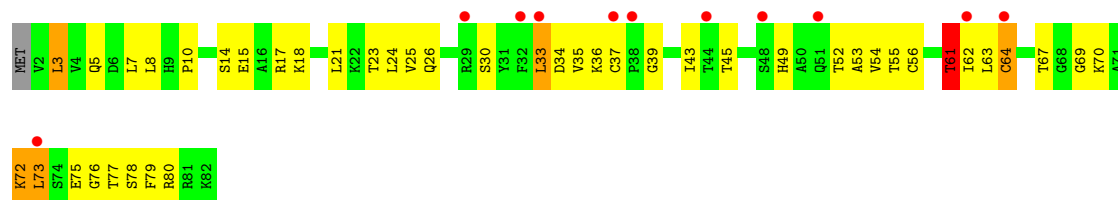
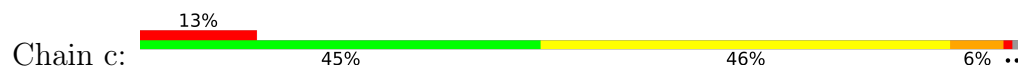
• Molecule 74: Small ribosomal subunit protein eS26B



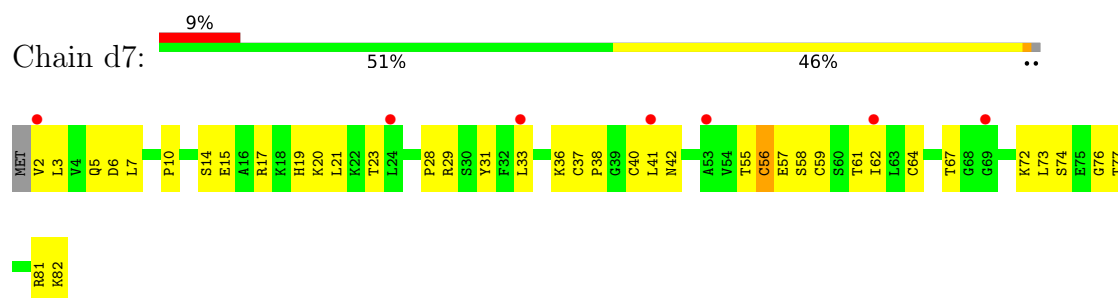
• Molecule 74: Small ribosomal subunit protein eS26B



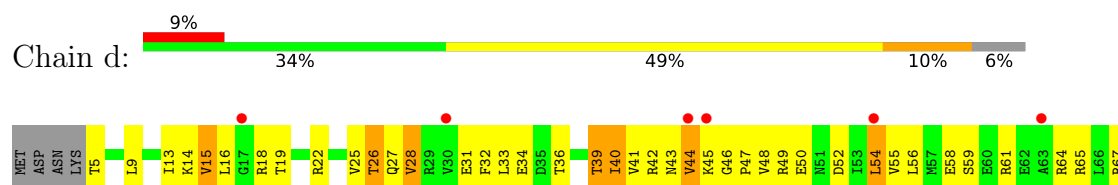
• Molecule 75: 40S ribosomal protein S27-A



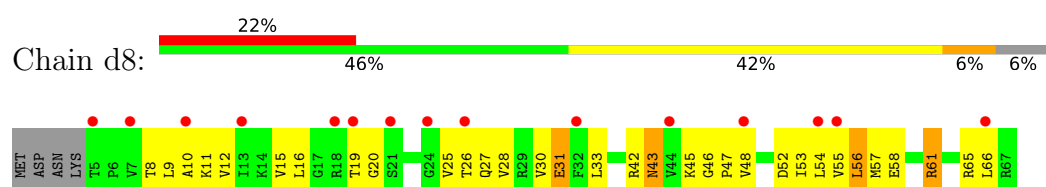
- Molecule 75: 40S ribosomal protein S27-A



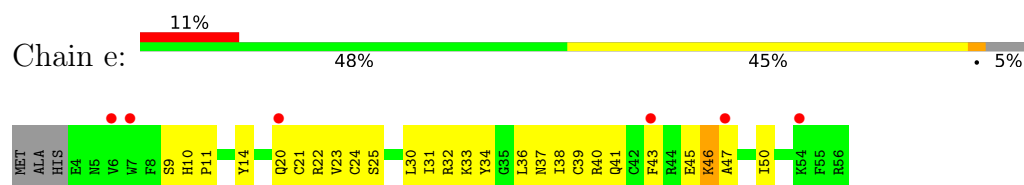
- Molecule 76: 40S ribosomal protein S28-A



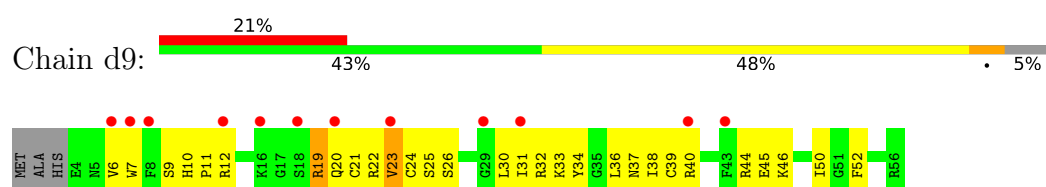
- Molecule 76: 40S ribosomal protein S28-A



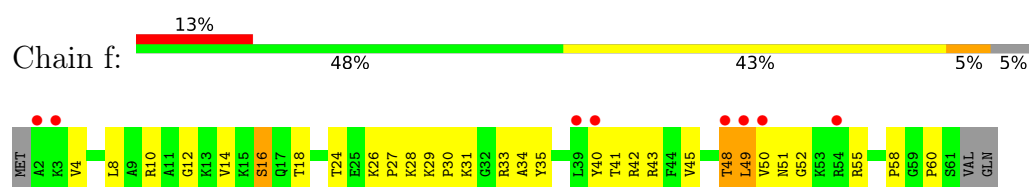
- Molecule 77: Small ribosomal subunit protein uS14A



- Molecule 77: Small ribosomal subunit protein uS14A



- Molecule 78: 40S ribosomal protein S30-A



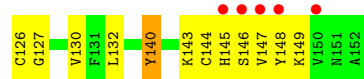
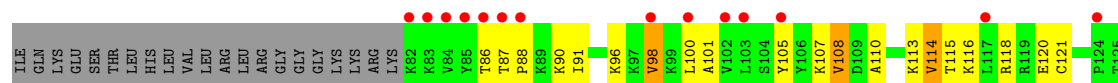
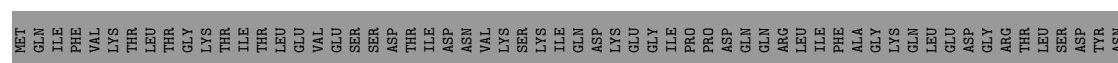
- Molecule 78: 40S ribosomal protein S30-A

Chain e0: 



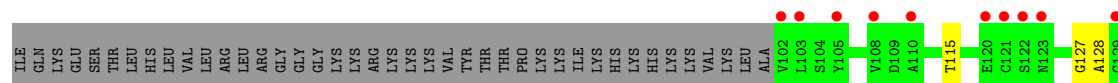
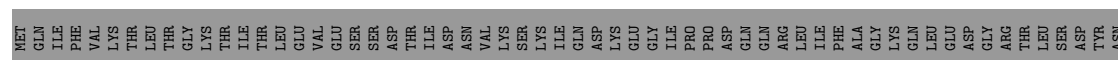
• Molecule 79: Ubiquitin

Chain g: 



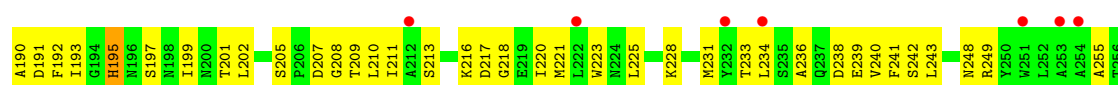
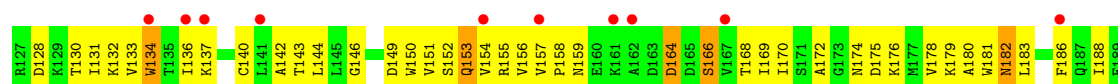
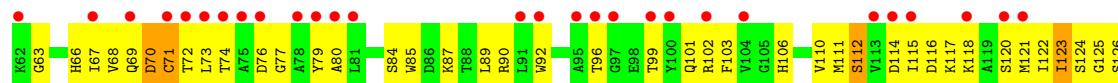
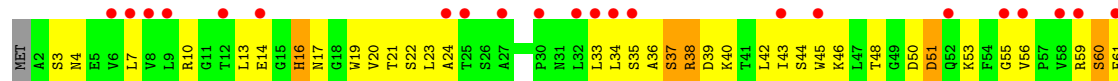
• Molecule 79: Ubiquitin

Chain e1: 



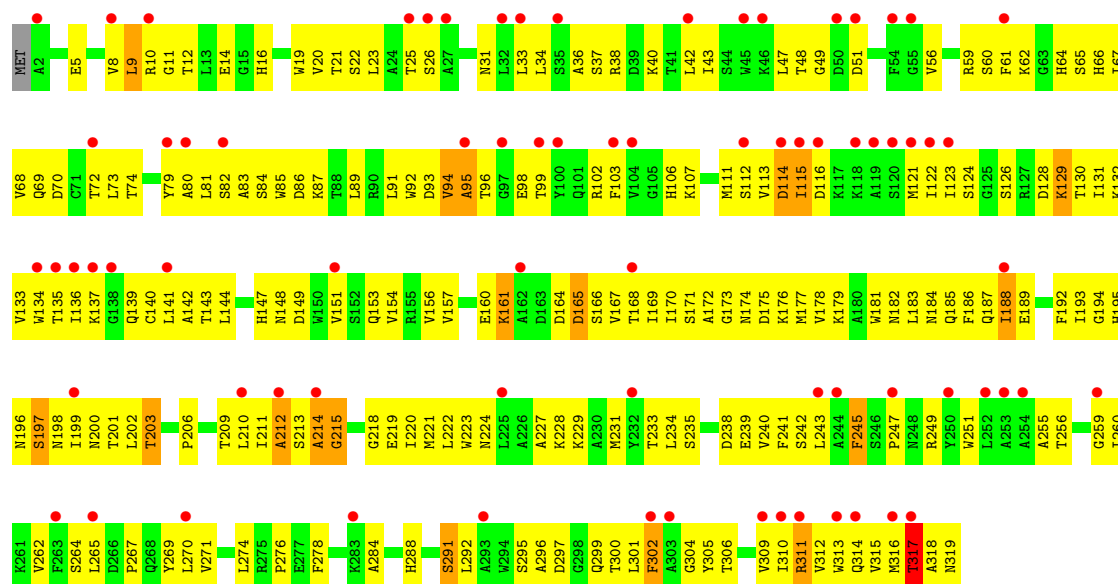
• Molecule 80: Guanine nucleotide-binding protein subunit beta-like protein

Chain h: 





● Molecule 80: Guanine nucleotide-binding protein subunit beta-like protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	303.81Å 287.52Å 435.86Å 90.00° 98.94° 90.00°	Depositor
Resolution (Å)	143.00 – 2.90 143.00 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.3 (143.00-2.90) 90.3 (143.00-2.90)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.65 (at 2.91Å)	Xtriage
Refinement program	PHENIX 1.20.14487	Depositor
R, R_{free}	0.214 , (Not available) 0.214 , 0.237	Depositor DCC
R_{free} test set	25000 reflections (1.55%)	wwPDB-VP
Wilson B-factor (Å ²)	64.6	Xtriage
Anisotropy	0.183	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 71.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	405377	wwPDB-VP
Average B, all atoms (Å ²)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.45% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, MG, OHX, SPD, XBI

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	1	0.16	0/75394	0.39	1/117545 (0.0%)
1	AR	0.16	0/74945	0.39	0/116844
2	3	0.14	0/2883	0.34	0/4491
2	AS	0.14	0/2883	0.36	0/4491
3	4	0.15	0/3746	0.39	0/5832
3	AT	0.14	0/3746	0.37	0/5832
4	CD	0.21	0/1948	0.55	0/2617
4	j	0.20	0/1948	0.56	0/2617
5	CE	0.20	0/3146	0.58	2/4228 (0.0%)
5	k	0.22	0/3146	0.61	6/4228 (0.1%)
6	CF	0.43	2/2800 (0.1%)	0.59	2/3790 (0.1%)
6	l	0.23	0/2800	0.60	0/3790
7	CG	0.21	0/2398	0.58	2/3235 (0.1%)
7	m	0.27	0/2425	0.73	2/3271 (0.1%)
8	CH	0.18	0/1260	0.57	0/1694
8	n	0.20	0/1260	0.51	0/1694
9	CI	0.19	0/1821	0.54	0/2451
9	o	0.24	0/1821	0.63	4/2451 (0.2%)
10	CJ	0.24	0/1789	0.64	0/2418
10	p	0.24	0/1836	0.61	0/2481
11	CK	0.19	0/1539	0.53	0/2073
11	q	0.27	0/1539	0.66	0/2073
12	CL	0.34	1/1741 (0.1%)	0.64	5/2335 (0.2%)
12	r	0.23	0/1741	0.68	7/2335 (0.3%)
13	CM	0.24	0/1374	0.63	0/1842
13	s	0.31	0/1374	0.83	4/1842 (0.2%)
14	CN	0.28	0/1568	0.76	6/2106 (0.3%)
14	t	0.25	0/1568	0.72	4/2106 (0.2%)
15	CO	0.27	0/1068	0.60	2/1438 (0.1%)
15	u	0.25	0/1068	0.61	3/1438 (0.2%)
16	CP	0.16	0/1757	0.43	0/2354
16	v	0.21	0/1757	0.54	0/2354

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	CQ	0.19	0/1585	0.46	0/2128
17	w	0.21	0/1585	0.52	0/2128
18	CR	0.18	0/1250	0.52	0/1683
18	x	0.20	0/1443	0.55	0/1944
19	CS	0.19	0/1465	0.57	0/1965
19	y	0.22	0/1465	0.59	2/1965 (0.1%)
20	CT	0.18	0/1538	0.52	0/2050
20	z	0.24	0/1449	0.57	0/1932
21	0	0.25	0/1481	0.56	0/1990
21	CU	0.18	0/1481	0.45	0/1990
22	2	0.22	0/1300	0.55	0/1743
22	CV	0.21	0/1300	0.53	0/1743
23	5	0.48	0/812	0.74	0/1099
23	CW	0.30	0/812	0.75	0/1099
24	6	0.23	0/1018	0.56	0/1369
24	CX	0.20	0/1018	0.48	0/1369
25	7	0.22	0/545	0.48	0/724
25	CY	0.21	0/780	0.52	0/1049
26	8	0.21	0/979	0.58	0/1321
26	CZ	0.23	0/952	0.56	0/1285
27	9	0.22	0/1004	0.60	0/1341
27	DA	0.18	0/987	0.52	0/1318
28	AA	0.40	1/1118 (0.1%)	0.74	2/1497 (0.1%)
28	DB	0.32	0/1118	0.74	3/1497 (0.2%)
29	AB	0.32	0/1204	0.96	14/1612 (0.9%)
29	DC	0.29	0/1204	0.86	10/1612 (0.6%)
30	AC	0.22	0/473	0.62	0/629
30	DD	0.20	0/473	0.71	0/629
31	AD	0.22	0/751	0.54	1/1008 (0.1%)
31	DE	0.20	0/751	0.52	0/1008
32	AE	0.21	0/890	0.48	0/1196
32	DF	0.19	0/890	0.55	0/1196
33	AF	0.16	0/1041	0.48	0/1394
33	DG	0.19	0/1041	0.51	0/1394
34	AG	0.20	0/862	0.55	0/1161
34	DH	0.19	0/868	0.51	0/1168
35	AH	0.27	0/881	0.59	0/1178
35	DI	0.22	0/890	0.59	0/1189
36	AI	0.21	0/978	0.52	0/1301
36	DJ	0.27	0/978	0.54	0/1301
37	AJ	0.24	0/745	0.58	0/991
37	DK	0.27	0/778	0.66	0/1034
38	AK	0.19	0/696	0.60	0/923

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DL	0.19	0/691	0.52	0/916
39	AL	0.22	0/618	0.60	0/826
39	DM	0.29	0/618	0.71	3/826 (0.4%)
40	AM	0.19	0/443	0.59	0/588
40	DN	0.19	0/443	0.57	0/588
41	AN	0.22	0/423	0.54	0/562
41	DO	0.22	0/423	0.58	0/562
42	AO	0.19	0/234	0.52	0/300
42	DP	0.18	0/234	0.51	0/300
43	AP	0.32	0/860	0.86	3/1136 (0.3%)
43	DQ	0.18	0/860	0.49	0/1136
44	AQ	0.21	0/701	0.67	0/934
44	DR	0.21	0/701	0.67	0/934
45	i	0.28	0/1024	0.71	0/1374
45	sM	0.26	0/480	0.77	2/642 (0.3%)
46	p0	0.34	0/1007	0.73	2/1355 (0.1%)
47	A	0.17	0/41494	0.41	0/64649
47	sR	0.16	0/42490	0.40	1/66207 (0.0%)
48	B	0.38	0/1602	0.86	2/2196 (0.1%)
48	s0	0.31	0/1623	0.81	2/2222 (0.1%)
49	C	0.45	0/1735	1.01	6/2335 (0.3%)
49	s1	0.25	0/1748	0.66	0/2352
50	D	0.35	0/1665	0.77	2/2263 (0.1%)
50	s2	0.23	0/1665	0.65	1/2263 (0.0%)
51	E	0.33	0/1759	0.71	0/2368
51	s3	0.44	1/1759 (0.1%)	0.76	3/2368 (0.1%)
52	F	0.33	0/2109	0.70	0/2839
52	s4	0.22	0/2109	0.59	0/2839
53	G	0.41	0/1629	0.97	7/2202 (0.3%)
53	s5	0.43	0/1580	0.89	2/2137 (0.1%)
54	H	0.24	0/1823	0.73	4/2439 (0.2%)
54	s6	0.25	0/1779	0.65	4/2379 (0.2%)
55	I	0.46	0/1506	0.91	1/2028 (0.0%)
55	s7	0.39	0/1516	1.04	8/2043 (0.4%)
56	J	0.23	0/1514	0.69	1/2021 (0.0%)
56	s8	0.24	0/1514	0.71	5/2021 (0.2%)
57	K	0.33	0/1519	0.82	4/2035 (0.2%)
57	s9	0.27	0/1519	0.68	1/2035 (0.0%)
58	L	0.28	0/789	0.72	0/1067
58	c0	0.26	0/776	0.75	2/1047 (0.2%)
59	M	0.21	0/1175	0.58	0/1584
59	c1	0.21	0/1194	0.55	0/1610
60	N	0.35	0/898	0.95	2/1220 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	O	0.28	0/1215	0.66	0/1638
61	c3	0.23	0/1215	0.55	0/1638
62	P	0.40	0/901	0.94	3/1217 (0.2%)
62	c4	0.34	0/950	0.77	0/1275
63	Q	0.88	9/998 (0.9%)	1.03	9/1341 (0.7%)
63	c5	0.34	0/1060	0.92	7/1426 (0.5%)
64	R	0.28	0/1125	0.80	4/1510 (0.3%)
64	c6	0.26	0/1131	0.75	0/1518
65	S	0.39	0/935	0.91	4/1254 (0.3%)
65	c7	0.25	0/914	0.71	2/1224 (0.2%)
66	T	0.30	0/1211	0.82	4/1628 (0.2%)
66	c8	0.28	0/1211	0.75	0/1628
67	U	0.38	0/1130	0.86	2/1517 (0.1%)
67	c9	0.25	0/1130	0.58	0/1517
68	V	0.30	0/774	0.76	0/1044
68	d0	0.25	0/723	0.78	0/974
69	W	0.32	0/693	0.77	2/935 (0.2%)
69	d1	0.26	0/693	0.72	3/935 (0.3%)
70	X	0.28	0/1038	0.68	0/1395
70	d2	0.22	0/1038	0.61	2/1395 (0.1%)
71	Y	0.24	0/1139	0.74	2/1518 (0.1%)
71	d3	0.19	0/1139	0.61	0/1518
72	Z	0.32	0/1087	0.72	1/1449 (0.1%)
72	d4	0.26	0/1087	0.81	4/1449 (0.3%)
73	a	0.36	0/571	0.93	0/768
73	d5	0.30	0/566	0.75	0/761
74	b	0.40	0/782	0.95	3/1047 (0.3%)
74	d6	0.31	0/782	0.96	6/1047 (0.6%)
75	c	0.26	0/620	0.91	2/838 (0.2%)
75	d7	0.20	0/620	0.66	0/838
76	d	0.27	0/499	0.67	0/670
76	d8	0.22	0/499	0.72	0/670
77	d9	0.25	0/452	0.71	2/600 (0.3%)
77	e	0.20	0/452	0.58	0/600
78	e0	0.27	0/499	0.79	0/665
78	f	0.26	0/483	0.71	0/643
79	e1	0.22	0/250	0.94	0/346
79	g	0.36	0/577	0.91	0/770
80	Rb	0.32	0/2495	0.76	4/3395 (0.1%)
80	h	0.30	0/2490	0.79	1/3389 (0.0%)
All	All	0.22	14/426391 (0.0%)	0.53	217/626187 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if

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

Mol	Chain	#Chirality outliers	#Planarity outliers
4	CD	0	3
5	CE	0	2
5	k	0	4
6	CF	0	4
6	l	0	5
7	CG	0	7
7	m	0	4
8	CH	0	1
9	CI	0	4
9	o	0	5
10	CJ	0	5
10	p	0	1
11	CK	0	2
11	q	0	2
12	CL	0	2
12	r	0	3
13	CM	0	2
13	s	0	3
14	CN	0	9
14	t	0	8
15	CO	0	2
15	u	0	2
19	CS	0	1
20	CT	0	1
21	0	0	1
21	CU	0	1
22	CV	0	1
23	CW	0	3
25	CY	0	1
28	AA	0	1
28	DB	0	2
29	AB	0	3
29	DC	0	2
30	AC	0	1
31	DE	0	1
32	DF	0	1
33	AF	0	2
33	DG	0	1
34	AG	0	1
34	DH	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
35	AH	0	1
35	DI	0	1
36	AI	0	2
36	DJ	0	1
37	DK	0	2
38	AK	0	2
39	AL	0	2
39	DM	0	1
40	DN	0	1
43	AP	0	1
44	DR	0	1
45	i	0	4
45	sM	0	2
47	A	0	1
48	B	0	6
48	s0	0	5
49	C	0	11
49	s1	0	1
50	D	0	3
50	s2	0	1
51	E	0	2
51	s3	0	14
52	F	0	3
52	s4	0	2
53	G	0	4
53	s5	0	1
54	H	0	4
54	s6	0	2
55	I	0	3
55	s7	0	9
56	J	0	3
56	s8	0	2
57	K	0	5
57	s9	0	4
58	L	0	6
58	c0	0	4
59	M	0	1
59	c1	0	1
60	N	0	12
61	c3	0	1
62	P	0	2
62	c4	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
63	Q	0	4
63	c5	0	3
64	R	0	5
64	c6	0	6
65	S	0	3
65	c7	0	1
66	T	0	6
66	c8	0	4
67	U	0	3
68	V	0	6
68	d0	0	4
69	d1	0	1
70	X	0	1
70	d2	0	1
71	Y	0	2
71	d3	0	1
72	Z	0	1
72	d4	0	3
73	a	0	2
73	d5	0	2
74	b	0	7
74	d6	0	1
75	c	0	4
75	d7	0	1
76	d	0	2
76	d8	0	1
78	e0	0	4
78	f	0	1
79	e1	0	7
79	g	0	2
80	Rb	0	6
80	h	0	3
All	All	0	342

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	CF	101	ALA	C-O	18.30	1.32	1.23
12	CL	213	PHE	C-O	10.30	1.29	1.23
63	Q	68	PRO	CG-CD	-9.94	1.17	1.50
63	Q	68	PRO	C-N	9.20	1.46	1.33
51	s3	211	PRO	N-CA	8.86	1.58	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	Q	68	PRO	N-CA	-8.37	1.37	1.47
63	Q	69	GLU	CA-CB	7.70	1.66	1.53
63	Q	67	ALA	C-O	7.52	1.32	1.24
63	Q	67	ALA	C-N	6.85	1.42	1.33
6	CF	101	ALA	CA-C	-5.95	1.49	1.53
63	Q	68	PRO	CA-C	-5.88	1.45	1.52
28	AA	103	GLN	CA-CB	-5.36	1.45	1.53
63	Q	66	ALA	C-N	5.14	1.39	1.33
63	Q	67	ALA	N-CA	-5.07	1.39	1.45

All (217) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	s7	63	PRO	CA-C-N	14.42	147.65	121.70
55	s7	63	PRO	C-N-CA	14.42	147.65	121.70
29	AB	48	TYR	CA-C-N	-11.31	110.04	122.59
29	AB	48	TYR	C-N-CA	-11.31	110.04	122.59
43	AP	29	LYS	CA-C-N	9.66	139.85	122.46
43	AP	29	LYS	C-N-CA	9.66	139.85	122.46
56	s8	100	ALA	CA-C-N	9.44	138.96	121.97
56	s8	100	ALA	C-N-CA	9.44	138.96	121.97
28	AA	102	GLU	CA-C-N	9.29	144.48	121.80
28	AA	102	GLU	C-N-CA	9.29	144.48	121.80
63	Q	68	PRO	N-CA-CB	-9.22	95.10	103.31
7	m	234	ASP	CA-C-N	9.04	136.78	121.86
7	m	234	ASP	C-N-CA	9.04	136.78	121.86
53	G	114	ILE	CA-CB-CG1	-8.76	95.51	110.40
29	AB	77	LYS	CA-C-N	8.74	138.24	121.54
29	AB	77	LYS	C-N-CA	8.74	138.24	121.54
12	CL	23	ASN	CA-C-N	8.74	138.23	121.54
12	CL	23	ASN	C-N-CA	8.74	138.23	121.54
14	CN	62	THR	CA-C-N	8.42	137.13	121.97
14	CN	62	THR	C-N-CA	8.42	137.13	121.97
74	d6	57	SER	CA-C-N	8.34	136.99	121.97
74	d6	57	SER	C-N-CA	8.34	136.99	121.97
63	c5	10	ARG	CD-NE-CZ	-8.32	112.75	124.40
55	s7	72	LYS	CA-C-N	-8.25	107.12	121.97
55	s7	72	LYS	C-N-CA	-8.25	107.12	121.97
9	o	159	GLN	N-CA-C	8.14	122.27	111.28
5	CE	4	ARG	CA-C-N	8.03	144.89	122.15
5	CE	4	ARG	C-N-CA	8.03	144.89	122.15
29	DC	47	LYS	CA-C-N	7.93	138.93	124.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DC	47	LYS	C-N-CA	7.93	138.93	124.82
69	d1	8	LEU	CA-C-N	7.83	136.07	121.97
69	d1	8	LEU	C-N-CA	7.83	136.07	121.97
28	DB	102	GLU	CA-C-N	7.73	140.67	121.80
28	DB	102	GLU	C-N-CA	7.73	140.67	121.80
29	AB	47	LYS	CA-C-N	7.71	139.92	125.66
29	AB	47	LYS	C-N-CA	7.71	139.92	125.66
43	AP	29	LYS	N-CA-C	7.68	127.15	110.80
74	d6	9	GLY	CA-C-N	7.63	136.12	121.54
74	d6	9	GLY	C-N-CA	7.63	136.12	121.54
55	s7	73	VAL	CA-C-N	7.50	138.22	125.02
55	s7	73	VAL	C-N-CA	7.50	138.22	125.02
72	d4	32	ARG	CA-C-N	7.46	133.49	122.08
72	d4	32	ARG	C-N-CA	7.46	133.49	122.08
14	t	62	THR	CA-C-N	7.37	135.23	121.97
14	t	62	THR	C-N-CA	7.37	135.23	121.97
54	s6	66	GLY	CA-C-N	-7.28	108.87	121.97
54	s6	66	GLY	C-N-CA	-7.28	108.87	121.97
12	r	23	ASN	CA-C-N	7.25	135.40	121.54
12	r	23	ASN	C-N-CA	7.25	135.40	121.54
29	DC	77	LYS	CA-C-N	7.24	135.36	121.54
29	DC	77	LYS	C-N-CA	7.24	135.36	121.54
74	d6	7	SER	CA-C-N	7.13	135.15	121.54
74	d6	7	SER	C-N-CA	7.13	135.15	121.54
53	G	36	ALA	CA-C-N	7.11	135.16	122.08
53	G	36	ALA	C-N-CA	7.11	135.16	122.08
51	s3	211	PRO	CA-N-CD	-7.08	102.09	112.00
53	s5	100	ASN	CA-C-N	7.05	135.23	121.41
53	s5	100	ASN	C-N-CA	7.05	135.23	121.41
29	AB	76	ASP	CA-C-N	-7.04	111.52	122.42
29	AB	76	ASP	C-N-CA	-7.04	111.52	122.42
65	c7	104	ASN	CA-C-N	6.97	137.23	124.82
65	c7	104	ASN	C-N-CA	6.97	137.23	124.82
5	k	153	LYS	CA-C-N	6.88	134.24	122.12
5	k	153	LYS	C-N-CA	6.88	134.24	122.12
29	DC	48	TYR	N-CA-C	6.87	127.32	113.31
5	k	346	THR	CA-C-N	6.83	134.59	121.54
5	k	346	THR	C-N-CA	6.83	134.59	121.54
49	C	157	GLN	CA-C-N	6.79	134.51	121.54
49	C	157	GLN	C-N-CA	6.79	134.51	121.54
72	d4	31	ASN	CA-C-N	-6.77	109.92	120.88
72	d4	31	ASN	C-N-CA	-6.77	109.92	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	DC	48	TYR	CB-CA-C	-6.74	96.06	110.76
48	s0	45	VAL	N-CA-C	-6.71	98.62	107.88
15	CO	8	LYS	CA-C-N	6.66	132.03	121.44
15	CO	8	LYS	C-N-CA	6.66	132.03	121.44
58	c0	93	TYR	CA-C-N	6.62	133.89	121.97
58	c0	93	TYR	C-N-CA	6.62	133.89	121.97
49	C	96	LEU	CD1-CG-CD2	6.55	125.22	110.80
14	CN	6	ASN	CA-C-N	6.54	138.69	122.74
14	CN	6	ASN	C-N-CA	6.54	138.69	122.74
12	r	188	GLY	N-CA-C	6.52	128.63	113.18
57	K	133	HIS	CA-C-N	6.52	129.49	120.49
57	K	133	HIS	C-N-CA	6.52	129.49	120.49
63	c5	8	LYS	CA-C-N	6.51	132.35	122.65
63	c5	8	LYS	C-N-CA	6.51	132.35	122.65
63	Q	125	PRO	N-CA-C	6.48	125.83	112.47
65	S	81	LYS	CA-C-N	6.46	132.52	121.86
65	S	81	LYS	C-N-CA	6.46	132.52	121.86
15	u	8	LYS	CA-C-N	6.43	132.70	121.52
15	u	8	LYS	C-N-CA	6.43	132.70	121.52
57	K	132	ARG	CA-C-N	6.42	133.81	121.54
57	K	132	ARG	C-N-CA	6.42	133.81	121.54
63	c5	10	ARG	CA-CB-CG	6.41	126.91	114.10
54	H	37	ASP	CA-C-N	6.35	133.86	121.41
54	H	37	ASP	C-N-CA	6.35	133.86	121.41
63	Q	68	PRO	CA-C-N	-6.33	111.02	121.97
63	Q	68	PRO	C-N-CA	-6.33	111.02	121.97
45	sM	41	SER	CA-C-N	6.27	132.20	121.86
45	sM	41	SER	C-N-CA	6.27	132.20	121.86
46	p0	30	VAL	CA-CB-CG1	6.17	120.89	110.40
1	1	979	U	P-O3'-C3'	6.09	129.34	120.20
63	Q	67	ALA	O-C-N	6.09	126.21	121.88
63	Q	67	ALA	CA-C-O	-6.07	114.03	120.28
62	P	41	ARG	N-CA-C	6.04	120.40	112.13
29	AB	116	GLY	N-CA-C	6.03	127.47	113.18
64	R	58	ASP	CA-C-N	6.01	131.99	122.61
64	R	58	ASP	C-N-CA	6.01	131.99	122.61
14	t	6	ASN	CA-C-N	5.98	136.83	122.36
14	t	6	ASN	C-N-CA	5.98	136.83	122.36
54	s6	68	LEU	CA-C-N	-5.98	107.21	121.80
54	s6	68	LEU	C-N-CA	-5.98	107.21	121.80
66	T	101	LEU	CA-C-N	5.96	135.50	125.02
66	T	101	LEU	C-N-CA	5.96	135.50	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	r	186	GLU	CA-C-N	-5.94	111.25	120.88
12	r	186	GLU	C-N-CA	-5.94	111.25	120.88
71	Y	89	ASN	CA-C-N	5.92	130.13	121.31
71	Y	89	ASN	C-N-CA	5.92	130.13	121.31
48	B	9	LEU	CB-CG-CD1	-5.89	93.03	110.70
50	D	106	ASP	CA-C-N	5.84	132.69	121.54
50	D	106	ASP	C-N-CA	5.84	132.69	121.54
29	DC	38	GLN	CA-C-N	5.82	132.78	122.08
29	DC	38	GLN	C-N-CA	5.82	132.78	122.08
13	s	171	VAL	CA-C-N	-5.77	110.35	122.41
13	s	171	VAL	C-N-CA	-5.77	110.35	122.41
48	B	9	LEU	CD1-CG-CD2	5.77	123.49	110.80
70	d2	55	ASP	CA-C-N	-5.77	110.52	121.54
70	d2	55	ASP	C-N-CA	-5.77	110.52	121.54
19	y	174	ARG	CA-C-N	5.75	132.53	121.54
19	y	174	ARG	C-N-CA	5.75	132.53	121.54
6	CF	318	LEU	CA-C-N	5.73	131.50	122.21
6	CF	318	LEU	C-N-CA	5.73	131.50	122.21
29	AB	48	TYR	N-CA-C	5.68	124.65	113.29
69	W	8	LEU	CA-C-N	5.67	132.17	121.97
69	W	8	LEU	C-N-CA	5.67	132.17	121.97
29	DC	76	ASP	CA-C-N	-5.66	111.45	121.81
29	DC	76	ASP	C-N-CA	-5.66	111.45	121.81
15	u	8	LYS	N-CA-C	5.65	122.84	110.80
39	DM	66	ILE	CA-CB-CG1	5.65	120.01	110.40
29	AB	48	TYR	CA-CB-CG	5.65	124.08	113.90
49	C	32	ILE	N-CA-CB	5.62	123.14	112.24
63	c5	71	GLU	CA-C-N	5.61	135.50	121.80
63	c5	71	GLU	C-N-CA	5.61	135.50	121.80
29	AB	48	TYR	CB-CA-C	-5.61	99.64	110.35
47	sR	1405	G	O5'-P-OP1	-5.60	91.20	108.00
54	H	18	ILE	CA-C-N	5.59	131.95	122.12
54	H	18	ILE	C-N-CA	5.59	131.95	122.12
63	Q	68	PRO	N-CA-C	5.59	119.86	111.14
7	CG	20	PHE	CA-C-N	5.56	137.89	122.15
7	CG	20	PHE	C-N-CA	5.56	137.89	122.15
53	G	94	THR	CA-CB-CG2	-5.56	101.04	110.50
13	s	112	LEU	CA-C-N	-5.55	110.54	121.41
13	s	112	LEU	C-N-CA	-5.55	110.54	121.41
53	G	118	LEU	CA-CB-CG	5.52	135.63	116.30
64	R	39	VAL	CA-C-N	5.52	135.26	121.80
64	R	39	VAL	C-N-CA	5.52	135.26	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	s0	45	VAL	N-CA-CB	5.50	119.14	111.05
9	o	159	GLN	CB-CA-C	-5.50	104.08	112.11
62	P	40	ALA	CA-C-N	-5.50	114.31	122.56
62	P	40	ALA	C-N-CA	-5.50	114.31	122.56
55	I	35	LYS	CG-CD-CE	-5.48	98.70	111.30
67	U	52	GLY	CA-C-N	5.46	131.97	121.54
67	U	52	GLY	C-N-CA	5.46	131.97	121.54
55	s7	12	ALA	N-CA-C	5.46	121.88	109.81
77	d9	9	SER	CA-C-N	5.45	139.23	122.71
77	d9	9	SER	C-N-CA	5.45	139.23	122.71
66	T	59	GLY	CA-C-N	5.44	130.83	121.86
66	T	59	GLY	C-N-CA	5.44	130.83	121.86
51	s3	216	PRO	N-CA-C	5.43	123.65	112.47
80	Rb	212	ALA	CA-C-N	5.42	132.05	122.08
80	Rb	212	ALA	C-N-CA	5.42	132.05	122.08
74	b	74	CYS	CA-C-N	5.42	131.72	121.97
74	b	74	CYS	C-N-CA	5.42	131.72	121.97
12	CL	213	PHE	O-C-N	-5.40	119.05	121.53
53	G	151	GLY	CA-C-N	5.39	131.97	121.41
53	G	151	GLY	C-N-CA	5.39	131.97	121.41
49	C	96	LEU	CA-CB-CG	5.38	135.14	116.30
14	CN	133	PRO	CA-C-N	5.37	129.80	121.26
14	CN	133	PRO	C-N-CA	5.37	129.80	121.26
74	b	9	GLY	N-CA-C	-5.35	100.51	113.18
56	s8	101	ILE	N-CA-C	-5.34	98.24	109.34
56	s8	99	ALA	CA-C-N	-5.31	111.40	121.54
56	s8	99	ALA	C-N-CA	-5.31	111.40	121.54
50	s2	149	GLY	N-CA-C	5.30	125.75	113.18
57	s9	99	LEU	CA-CB-CG	5.29	134.81	116.30
31	AD	81	VAL	N-CA-C	-5.28	106.27	111.77
49	C	32	ILE	CB-CA-C	-5.25	104.02	111.38
9	o	232	ARG	CA-C-N	-5.25	113.86	122.79
9	o	232	ARG	C-N-CA	-5.25	113.86	122.79
80	h	71	CYS	CA-CB-SG	-5.25	102.33	114.40
72	Z	127	LYS	CA-CB-CG	5.25	124.60	114.10
75	c	61	THR	CA-C-N	5.25	131.41	121.97
75	c	61	THR	C-N-CA	5.25	131.41	121.97
65	S	84	TYR	CA-CB-CG	5.23	123.31	113.90
60	N	124	LYS	CA-C-N	5.22	131.51	121.54
60	N	124	LYS	C-N-CA	5.22	131.51	121.54
56	J	116	HIS	N-CA-C	-5.21	101.67	109.79
29	AB	46	ASP	CA-C-N	-5.19	115.09	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	AB	46	ASP	C-N-CA	-5.19	115.09	122.93
55	s7	34	LEU	CB-CG-CD1	-5.19	95.14	110.70
80	Rb	160	GLU	CA-C-N	5.16	130.37	121.86
80	Rb	160	GLU	C-N-CA	5.16	130.37	121.86
12	r	188	GLY	CA-C-N	-5.15	114.11	121.98
12	r	188	GLY	C-N-CA	-5.15	114.11	121.98
63	Q	66	ALA	CA-C-N	-5.11	112.32	122.90
63	Q	66	ALA	C-N-CA	-5.11	112.32	122.90
65	S	83	GLN	N-CA-C	5.07	118.13	111.28
46	p0	30	VAL	CB-CA-C	5.06	119.58	111.29
63	c5	17	TYR	N-CA-C	5.05	117.76	111.24
28	DB	103	GLN	N-CA-C	5.05	120.96	109.81
39	DM	35	GLY	CA-C-N	5.05	134.11	121.80
39	DM	35	GLY	C-N-CA	5.05	134.11	121.80
51	s3	220	PRO	N-CA-C	5.04	122.85	112.47
12	CL	25	ALA	CA-C-N	-5.04	112.81	122.13
12	CL	25	ALA	C-N-CA	-5.04	112.81	122.13
69	d1	9	VAL	N-CA-C	-5.04	98.86	109.34
5	k	345	ASN	CA-C-N	-5.02	112.75	120.88
5	k	345	ASN	C-N-CA	-5.02	112.75	120.88

There are no chirality outliers.

All (342) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
21	0	22	PRO	Peptide
47	A	310	C	Sidechain
28	AA	102	GLU	Peptide
29	AB	116	GLY	Peptide
29	AB	66	ALA	Peptide
29	AB	97	GLU	Peptide
30	AC	20	GLY	Peptide
33	AF	11	LYS	Peptide
33	AF	12	LYS	Peptide
34	AG	59	VAL	Peptide
35	AH	106	LYS	Peptide
36	AI	118	ILE	Peptide
36	AI	83	LYS	Peptide
38	AK	79	GLN	Peptide
38	AK	85	LYS	Peptide
39	AL	32	ASN	Peptide
39	AL	64	LYS	Peptide

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Mol	Chain	Res	Type	Group
43	AP	29	LYS	Peptide
48	B	113	ARG	Peptide
48	B	157	ASP	Peptide
48	B	202	TYR	Peptide
48	B	27	ARG	Peptide
48	B	4	PRO	Peptide
48	B	93	THR	Peptide
49	C	158	SER	Mainchain
49	C	174	LYS	Peptide
49	C	212	VAL	Peptide
49	C	222	LYS	Peptide
49	C	32	ILE	Peptide
49	C	43	VAL	Peptide
49	C	52	THR	Peptide
49	C	53	GLY	Peptide
49	C	54	LEU	Peptide
49	C	57	ALA	Peptide
49	C	95	ASN	Peptide
4	CD	143	GLU	Peptide
4	CD	25	GLY	Peptide
4	CD	250	GLN	Peptide
5	CE	3	HIS	Peptide
5	CE	4	ARG	Peptide
6	CF	13	GLY	Peptide
6	CF	15	ALA	Peptide
6	CF	182	LEU	Peptide
6	CF	191	LYS	Peptide
7	CG	177	GLU	Peptide
7	CG	19	PRO	Peptide
7	CG	20	PHE	Peptide
7	CG	221	GLU	Peptide
7	CG	261	THR	Peptide
7	CG	4	GLN	Peptide
7	CG	43	LYS	Peptide
8	CH	97	ASN	Peptide
9	CI	163	LEU	Peptide
9	CI	190	THR	Peptide
9	CI	232	ARG	Peptide
9	CI	24	GLU	Peptide
10	CJ	114	ALA	Peptide
10	CJ	119	GLY	Peptide
10	CJ	121	SER	Peptide

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Mol	Chain	Res	Type	Group
10	CJ	195	SER	Peptide
10	CJ	40	VAL	Peptide
11	CK	105	GLU	Peptide
11	CK	21	LYS	Peptide
12	CL	186	GLU	Peptide
12	CL	23	ASN	Peptide
13	CM	172	LEU	Peptide
13	CM	9	MET	Peptide
14	CN	164	GLU	Peptide
14	CN	165	SER	Peptide
14	CN	185	LYS	Peptide
14	CN	4	SER	Peptide
14	CN	46	ILE	Peptide
14	CN	47	ALA	Peptide
14	CN	5	LYS	Peptide
14	CN	61	PRO	Peptide
14	CN	62	THR	Peptide
15	CO	7	VAL	Peptide
15	CO	8	LYS	Peptide
19	CS	98	LYS	Peptide
20	CT	159	ALA	Peptide
21	CU	133	ALA	Peptide
22	CV	125	ALA	Peptide
23	CW	107	PHE	Peptide
23	CW	13	LYS	Peptide
23	CW	44	GLU	Peptide
25	CY	25	ASP	Peptide
50	D	237	VAL	Peptide
50	D	247	ALA	Peptide
50	D	47	ALA	Peptide
28	DB	101	PHE	Peptide
28	DB	102	GLU	Peptide
29	DC	38	GLN	Peptide
29	DC	48	TYR	Peptide
31	DE	99	ASP	Peptide
32	DF	85	ALA	Peptide
33	DG	12	LYS	Peptide
34	DH	15	SER	Peptide
35	DI	104	VAL	Peptide
36	DJ	83	LYS	Peptide
37	DK	31	GLY	Peptide
37	DK	33	ALA	Peptide

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Mol	Chain	Res	Type	Group
39	DM	33	LYS	Peptide
40	DN	3	ALA	Peptide
44	DR	51	ALA	Peptide
51	E	219	ALA	Peptide
51	E	45	LYS	Peptide
52	F	187	ARG	Peptide
52	F	193	GLY	Peptide
52	F	194	THR	Peptide
53	G	220	VAL	Peptide
53	G	37	GLN	Peptide
53	G	39	GLU	Peptide
53	G	58	LEU	Peptide
54	H	214	LYS	Peptide
54	H	215	ARG	Sidechain
54	H	38	GLY	Peptide
54	H	42	GLY	Peptide
55	I	14	THR	Peptide
55	I	167	GLU	Peptide
55	I	31	SER	Peptide
56	J	116	HIS	Peptide
56	J	119	GLN	Peptide
56	J	23	LYS	Peptide
57	K	130	THR	Peptide
57	K	133	HIS	Peptide
57	K	149	ARG	Peptide
57	K	61	THR	Peptide
57	K	82	ARG	Sidechain
58	L	30	ALA	Peptide
58	L	42	VAL	Peptide
58	L	44	LYS	Peptide
58	L	86	ILE	Peptide
58	L	92	ILE	Peptide
58	L	93	GLN	Peptide
59	M	3	THR	Peptide
60	N	101	ALA	Peptide
60	N	102	GLY	Peptide
60	N	103	LEU	Peptide
60	N	108	ARG	Peptide
60	N	119	SER	Peptide
60	N	125	ASN	Peptide
60	N	128	ALA	Peptide
60	N	21	GLU	Peptide

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Mol	Chain	Res	Type	Group
60	N	28	LEU	Peptide
60	N	33	ARG	Peptide
60	N	67	THR	Peptide
60	N	83	GLU	Peptide
62	P	49	LYS	Peptide
62	P	51	ASP	Peptide
63	Q	124	THR	Peptide
63	Q	125	PRO	Peptide
63	Q	22	LEU	Peptide
63	Q	54	ALA	Peptide
64	R	40	GLU	Peptide
64	R	57	LEU	Peptide
64	R	58	ASP	Peptide
64	R	59	LYS	Peptide
64	R	61	SER	Peptide
80	Rb	161	LYS	Peptide
80	Rb	214	ALA	Peptide
80	Rb	215	GLY	Peptide
80	Rb	317	THR	Peptide
80	Rb	94	VAL	Peptide
80	Rb	95	ALA	Peptide
65	S	84	TYR	Peptide
65	S	86	PRO	Peptide
65	S	96	SER	Peptide
66	T	101	LEU	Peptide
66	T	102	ALA	Peptide
66	T	48	LYS	Peptide
66	T	90	ASN	Peptide
66	T	91	ASP	Peptide
66	T	98	TYR	Peptide
67	U	103	LYS	Peptide
67	U	49	ASP	Peptide
67	U	50	ALA	Peptide
68	V	119	ALA	Peptide
68	V	15	GLN	Peptide
68	V	31	VAL	Peptide
68	V	43	LYS	Peptide
68	V	44	ASN	Peptide
68	V	52	LYS	Peptide
70	X	54	ASP	Peptide
71	Y	130	VAL	Peptide
71	Y	90	ASP	Peptide

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Mol	Chain	Res	Type	Group
72	Z	36	SER	Peptide
73	a	41	ILE	Peptide
73	a	70	LYS	Peptide
74	b	10	ARG	Peptide
74	b	59	TYR	Peptide
74	b	7	SER	Peptide
74	b	73	TYR	Peptide
74	b	74	CYS	Peptide
74	b	85	ARG	Peptide
74	b	88	SER	Peptide
75	c	3	LEU	Peptide
75	c	61	THR	Peptide
75	c	64	CYS	Peptide
75	c	76	GLY	Peptide
58	c0	22	VAL	Peptide
58	c0	23	ALA	Peptide
58	c0	30	ALA	Peptide
58	c0	69	THR	Peptide
59	c1	128	CYS	Peptide
61	c3	138	ASN	Peptide
62	c4	125	SER	Peptide
62	c4	34	SER	Peptide
62	c4	47	LYS	Peptide
62	c4	48	VAL	Peptide
62	c4	90	ARG	Peptide
63	c5	50	THR	Peptide
63	c5	72	LYS	Peptide
63	c5	9	LYS	Mainchain
64	c6	13	LYS	Peptide
64	c6	140	LYS	Peptide
64	c6	40	GLU	Peptide
64	c6	41	PRO	Peptide
64	c6	42	GLU	Peptide
64	c6	63	ILE	Peptide
65	c7	105	GLN	Peptide
66	c8	101	LEU	Peptide
66	c8	57	ARG	Peptide
66	c8	8	GLN	Peptide
66	c8	90	ASN	Peptide
76	d	33	LEU	Peptide
76	d	39	THR	Peptide
68	d0	102	ARG	Peptide

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Mol	Chain	Res	Type	Group
68	d0	34	LEU	Peptide
68	d0	43	LYS	Peptide
68	d0	46	GLU	Peptide
69	d1	41	GLU	Peptide
70	d2	54	ASP	Peptide
71	d3	88	PRO	Peptide
72	d4	29	HIS	Peptide
72	d4	32	ARG	Peptide
72	d4	51	GLU	Peptide
73	d5	103	ARG	Peptide
73	d5	44	GLN	Peptide
74	d6	8	ASN	Peptide
75	d7	58	SER	Peptide
76	d8	61	ARG	Peptide
78	e0	46	ASN	Peptide
78	e0	48	THR	Peptide
78	e0	60	PRO	Peptide
78	e0	62	VAL	Peptide
79	e1	115	THR	Peptide
79	e1	127	GLY	Peptide
79	e1	128	ALA	Peptide
79	e1	138	ARG	Peptide
79	e1	140	TYR	Peptide
79	e1	143	LYS	Peptide
79	e1	145	HIS	Peptide
78	f	51	ASN	Peptide
79	g	101	ALA	Peptide
79	g	98	VAL	Peptide
80	h	166	SER	Peptide
80	h	51	ASP	Peptide
80	h	70	ASP	Peptide
45	i	104	LYS	Peptide
45	i	153	LYS	Peptide
45	i	85	SER	Peptide
45	i	86	ASN	Peptide
5	k	172	ALA	Peptide
5	k	173	GLN	Peptide
5	k	346	THR	Peptide
5	k	349	LYS	Peptide
6	l	13	GLY	Peptide
6	l	15	ALA	Peptide
6	l	24	ALA	Peptide

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Mol	Chain	Res	Type	Group
6	l	291	ASN	Peptide
6	l	60	THR	Peptide
7	m	213	ASP	Peptide
7	m	251	PRO	Peptide
7	m	261	THR	Peptide
7	m	43	LYS	Peptide
9	o	157	ASN	Peptide
9	o	158	LYS	Peptide
9	o	159	GLN	Peptide
9	o	163	LEU	Peptide
9	o	231	ASN	Peptide
10	p	76	ALA	Peptide
11	q	189	GLU	Peptide
11	q	21	LYS	Peptide
12	r	188	GLY	Peptide
12	r	217	PHE	Peptide
12	r	23	ASN	Peptide
13	s	172	LEU	Peptide
13	s	23	VAL	Peptide
13	s	39	GLN	Peptide
48	s0	167	LYS	Peptide
48	s0	189	VAL	Peptide
48	s0	44	GLY	Peptide
48	s0	9	LEU	Peptide
48	s0	94	GLY	Peptide
49	s1	222	LYS	Peptide
50	s2	151	PRO	Peptide
51	s3	128	GLU	Peptide
51	s3	144	ALA	Peptide
51	s3	145	ALA	Peptide
51	s3	180	GLY	Peptide
51	s3	216	PRO	Peptide
51	s3	219	ALA	Peptide
51	s3	220	PRO	Peptide
51	s3	221	SER	Peptide
51	s3	23	GLU	Peptide
51	s3	43	PRO	Peptide
51	s3	65	ARG	Peptide
51	s3	73	VAL	Peptide
51	s3	75	LYS	Peptide
51	s3	79	TYR	Peptide
52	s4	116	ASP	Peptide

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Mol	Chain	Res	Type	Group
52	s4	118	GLU	Peptide
53	s5	100	ASN	Peptide
54	s6	68	LEU	Peptide
54	s6	69	LEU	Peptide
55	s7	10	SER	Peptide
55	s7	12	ALA	Peptide
55	s7	13	PRO	Peptide
55	s7	27	LEU	Peptide
55	s7	30	SER	Peptide
55	s7	31	SER	Peptide
55	s7	62	VAL	Peptide
55	s7	63	PRO	Mainchain
55	s7	73	VAL	Peptide
56	s8	100	ALA	Peptide
56	s8	161	SER	Peptide
57	s9	107	ARG	Sidechain
57	s9	166	GLY	Peptide
57	s9	167	ALA	Peptide
57	s9	87	SER	Peptide
45	sM	45	SER	Peptide
45	sM	84	LYS	Peptide
14	t	135	ALA	Peptide
14	t	4	SER	Peptide
14	t	46	ILE	Peptide
14	t	47	ALA	Peptide
14	t	5	LYS	Peptide
14	t	61	PRO	Peptide
14	t	62	THR	Peptide
14	t	76	THR	Peptide
15	u	7	VAL	Peptide
15	u	8	LYS	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	67355	0	33847	1446	1
1	AR	66954	0	33647	1481	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	3	2579	0	1303	58	0
2	AS	2579	0	1304	57	0
3	4	3353	0	1695	72	1
3	AT	3353	0	1695	85	0
4	CD	1914	0	1981	87	0
4	j	1914	0	1981	68	0
5	CE	3075	0	3142	93	0
5	k	3075	0	3142	125	0
6	CF	2748	0	2859	94	0
6	l	2748	0	2859	115	0
7	CG	2348	0	2301	105	2
7	m	2375	0	2325	129	0
8	CH	1239	0	1326	43	0
8	n	1239	0	1326	32	0
9	CI	1784	0	1862	42	0
9	o	1784	0	1862	62	0
10	CJ	1757	0	1834	99	1
10	p	1804	0	1877	92	0
11	CK	1518	0	1587	62	1
11	q	1518	0	1587	86	0
12	CL	1705	0	1736	81	0
12	r	1705	0	1736	73	0
13	CM	1353	0	1383	59	1
13	s	1353	0	1383	96	0
14	CN	1543	0	1608	89	0
14	t	1543	0	1608	83	0
15	CO	1053	0	1149	49	0
15	u	1053	0	1149	47	0
16	CP	1720	0	1779	55	0
16	v	1720	0	1779	80	0
17	CQ	1555	0	1659	40	0
17	w	1555	0	1659	61	0
18	CR	1227	0	1236	47	0
18	x	1420	0	1437	31	0
19	CS	1441	0	1543	49	0
19	y	1441	0	1543	57	0
20	CT	1521	0	1617	62	0
20	z	1432	0	1526	62	0
21	0	1445	0	1487	47	0
21	CU	1445	0	1487	42	0
22	2	1276	0	1323	47	0
22	CV	1276	0	1323	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	5	796	0	812	59	0
23	CW	796	0	812	55	0
24	6	1003	0	1048	36	0
24	CX	1003	0	1048	29	0
25	7	533	0	560	14	0
25	CY	769	0	685	12	0
26	8	964	0	1025	48	0
26	CZ	937	0	994	38	0
27	9	993	0	1081	31	0
27	DA	976	0	1064	35	0
28	AA	1092	0	1155	86	0
28	DB	1092	0	1155	80	0
29	AB	1173	0	1215	52	0
29	DC	1173	0	1215	71	0
30	AC	462	0	491	17	0
30	DD	462	0	491	19	0
31	AD	743	0	797	36	0
31	DE	743	0	797	49	0
32	AE	876	0	912	31	0
32	DF	876	0	912	23	0
33	AF	1020	0	1090	28	0
33	DG	1020	0	1090	26	0
34	AG	844	0	869	26	0
34	DH	850	0	880	28	0
35	AH	871	0	928	50	0
35	DI	880	0	944	48	0
36	AI	969	0	1078	46	0
36	DJ	969	0	1078	47	0
37	AJ	739	0	816	43	0
37	DK	771	0	849	68	0
38	AK	681	0	683	33	0
38	DL	676	0	678	25	0
39	AL	612	0	682	30	0
39	DM	612	0	682	35	0
40	AM	436	0	475	22	0
40	DN	436	0	475	19	0
41	AN	417	0	455	19	0
41	DO	417	0	455	19	1
42	AO	233	0	284	12	0
42	DP	233	0	284	10	0
43	AP	847	0	914	38	0
43	DQ	847	0	914	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	AQ	694	0	734	41	0
44	DR	694	0	734	39	0
45	i	1017	0	958	63	0
45	sM	475	0	492	34	0
46	p0	992	0	1001	59	0
47	A	37101	0	18669	1231	1
47	sR	37990	0	19115	1107	1
48	B	1562	0	1539	155	0
48	s0	1583	0	1578	148	0
49	C	1709	0	1784	197	0
49	s1	1722	0	1793	124	0
50	D	1635	0	1723	151	0
50	s2	1635	0	1723	87	0
51	E	1734	0	1817	124	0
51	s3	1734	0	1817	119	0
52	F	2068	0	2154	133	0
52	s4	2068	0	2154	93	0
53	G	1609	0	1675	171	0
53	s5	1561	0	1626	191	0
54	H	1799	0	1879	102	0
54	s6	1755	0	1846	99	0
55	I	1481	0	1572	135	0
55	s7	1491	0	1578	133	0
56	J	1489	0	1525	87	0
56	s8	1489	0	1525	85	0
57	K	1494	0	1573	127	0
57	s9	1494	0	1573	131	0
58	L	772	0	727	51	0
58	c0	761	0	698	56	0
59	M	1149	0	1215	53	0
59	c1	1168	0	1233	49	0
60	N	890	0	887	95	0
61	O	1192	0	1255	70	0
61	c3	1192	0	1255	54	0
62	P	891	0	883	91	0
62	c4	940	0	976	64	0
63	Q	977	0	1002	88	0
63	c5	1039	0	1050	80	0
64	R	1105	0	1166	102	0
64	c6	1111	0	1171	73	0
65	S	926	0	930	80	0
65	c7	906	0	909	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
66	T	1192	0	1222	112	0
66	c8	1192	0	1222	109	1
67	U	1112	0	1124	91	0
67	c9	1112	0	1124	81	0
68	V	765	0	809	66	0
68	d0	715	0	767	53	0
69	W	684	0	672	55	0
69	d1	684	0	672	51	0
70	X	1021	0	1060	78	0
70	d2	1021	0	1060	60	0
71	Y	1121	0	1196	62	0
71	d3	1121	0	1196	42	0
72	Z	1073	0	1132	75	0
72	d4	1073	0	1132	62	0
73	a	563	0	603	70	0
73	d5	558	0	598	59	0
74	b	769	0	815	96	0
74	d6	769	0	814	51	0
75	c	610	0	633	41	0
75	d7	610	0	633	31	0
76	d	497	0	535	45	0
76	d8	497	0	535	27	0
77	d9	442	0	428	26	0
77	e	442	0	428	22	0
78	e0	491	0	542	40	0
78	f	475	0	525	31	0
79	e1	251	0	115	5	0
79	g	566	0	602	37	0
80	Rb	2442	0	2392	227	0
80	h	2437	0	2386	210	0
81	1	1988	0	0	201	0
81	3	77	0	0	3	0
81	4	105	0	0	6	0
81	A	832	0	0	93	0
81	AC	7	0	0	1	0
81	AG	7	0	0	1	0
81	AK	7	0	0	2	0
81	AP	7	0	0	1	0
81	AR	2125	0	0	242	0
81	AS	70	0	0	7	0
81	AT	98	0	0	4	0
81	CE	14	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
81	CG	20	0	0	2	0
81	CK	7	0	0	1	1
81	CL	21	0	0	5	0
81	CP	14	0	0	0	0
81	CQ	7	0	0	0	0
81	CS	7	0	0	1	0
81	CX	14	0	0	3	0
81	DD	7	0	0	2	0
81	DK	7	0	0	2	0
81	DL	7	0	0	2	0
81	DQ	7	0	0	1	0
81	J	7	0	0	1	0
81	O	7	0	0	1	0
81	Q	7	0	0	0	0
81	S	7	0	0	0	0
81	T	7	0	0	0	1
81	U	7	0	0	0	0
81	c3	7	0	0	1	0
81	c5	7	0	0	1	0
81	c8	7	0	0	0	0
81	d0	7	0	0	1	0
81	e	7	0	0	1	0
81	k	7	0	0	2	0
81	l	7	0	0	2	0
81	r	7	0	0	0	0
81	s1	7	0	0	3	0
81	s4	7	0	0	1	0
81	s8	7	0	0	1	0
81	sR	979	0	0	114	0
81	v	7	0	0	2	0
81	x	7	0	0	1	0
81	z	14	0	0	1	0
82	1	476	0	0	0	0
82	3	11	0	0	0	0
82	4	20	0	0	0	0
82	6	3	0	0	0	0
82	A	132	0	0	0	0
82	AB	5	0	0	0	0
82	AF	4	0	0	0	0
82	AG	2	0	0	0	0
82	AK	1	0	0	0	0
82	AR	519	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
82	AS	20	0	0	0	0
82	AT	17	0	0	0	0
82	CD	3	0	0	0	0
82	CE	6	0	0	0	0
82	CF	2	0	0	0	0
82	CG	1	0	0	0	0
82	CI	3	0	0	0	0
82	CK	1	0	0	0	0
82	CL	1	0	0	0	0
82	CM	2	0	0	0	0
82	CO	1	0	0	0	0
82	CP	3	0	0	0	0
82	CQ	4	0	0	0	0
82	CR	5	0	0	0	0
82	CU	1	0	0	0	0
82	CX	1	0	0	0	0
82	CY	1	0	0	0	0
82	DA	2	0	0	0	0
82	DC	3	0	0	0	0
82	DF	1	0	0	0	0
82	DH	2	0	0	0	0
82	DI	1	0	0	0	0
82	DL	1	0	0	0	0
82	DO	1	0	0	0	0
82	DP	1	0	0	0	0
82	DQ	2	0	0	0	0
82	F	1	0	0	0	0
82	H	1	0	0	0	0
82	O	1	0	0	0	0
82	P	1	0	0	0	0
82	X	1	0	0	0	0
82	Y	1	0	0	0	0
82	b	1	0	0	0	0
82	c1	1	0	0	0	0
82	c4	2	0	0	0	0
82	c6	2	0	0	0	0
82	c8	1	0	0	0	0
82	c9	1	0	0	0	0
82	d3	4	0	0	0	0
82	d4	3	0	0	0	0
82	d6	2	0	0	0	0
82	d9	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
82	j	3	0	0	0	0
82	k	1	0	0	0	0
82	l	3	0	0	0	0
82	n	1	0	0	0	0
82	o	1	0	0	0	0
82	r	3	0	0	0	0
82	s	1	0	0	0	0
82	s1	1	0	0	0	0
82	s2	1	0	0	0	0
82	s4	1	0	0	0	0
82	s8	2	0	0	0	0
82	s9	1	0	0	0	0
82	sM	2	0	0	0	0
82	sR	144	0	0	0	0
82	t	3	0	0	0	0
82	v	3	0	0	0	0
82	w	1	0	0	0	0
82	x	8	0	0	0	0
82	z	1	0	0	0	0
83	1	10	0	19	3	0
83	AR	10	0	19	2	0
84	1	26	0	0	2	0
84	AR	26	0	0	1	0
85	AH	1	0	0	0	0
85	AK	1	0	0	0	0
85	AN	1	0	0	0	0
85	AP	1	0	0	0	0
85	AQ	1	0	0	0	0
85	DI	1	0	0	0	0
85	DL	1	0	0	0	0
85	DO	1	0	0	0	0
85	DQ	1	0	0	0	0
85	DR	1	0	0	0	0
85	b	1	0	0	0	0
85	c	1	0	0	0	0
85	d6	1	0	0	0	0
85	d7	1	0	0	0	0
85	d9	1	0	0	0	0
85	e	1	0	0	0	0
85	e1	1	0	0	0	0
85	g	1	0	0	0	0
86	1	53	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
86	A	33	0	0	0	0
86	AE	1	0	0	0	0
86	AF	3	0	0	0	0
86	AR	82	0	0	1	0
86	AT	3	0	0	0	0
86	CP	2	0	0	0	0
86	CR	1	0	0	0	0
86	DG	3	0	0	0	0
86	M	1	0	0	1	0
86	j	1	0	0	0	0
86	sR	23	0	0	0	0
All	All	405377	0	293888	13509	7

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 19.

All (13509) 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)
53:s5:218:GLU:H	53:s5:219:ARG:NH1	1.35	1.25
66:c8:45:LEU:HA	66:c8:48:LYS:HG3	1.28	1.15
47:A:568:G:H4'	71:Y:90:ASP:HB2	1.27	1.14
80:Rb:81:LEU:HD12	80:Rb:122:ILE:HD13	1.26	1.12
48:B:22:THR:HG22	48:B:169:SER:CB	1.80	1.11
74:b:45:VAL:HB	74:b:50:VAL:HG11	1.36	1.07
35:DI:103:LYS:HD3	35:DI:104:VAL:HG13	1.37	1.05
50:D:45:VAL:HG11	50:D:68:ILE:HG13	1.35	1.03
75:d7:56:CYS:HB3	75:d7:59:CYS:HB2	1.40	1.02
70:X:15:ASN:ND2	70:X:72:CYS:SG	2.33	1.02
74:b:45:VAL:HB	74:b:50:VAL:CG1	1.89	1.01
47:A:885:G:H21	62:P:123:SER:HB2	1.21	1.01
62:c4:103:ARG:HE	74:d6:49:ALA:HB2	1.23	1.01
47:sR:1140:G:OP2	81:sR:1928:OHX:N3	1.95	1.00
13:CM:15:GLU:HG3	13:CM:132:ASN:HD22	1.23	1.00
56:J:138:ASN:HB3	56:J:141:ARG:HH21	1.26	0.98
62:c4:103:ARG:NE	74:d6:49:ALA:HB2	1.76	0.98
49:s1:180:THR:HG22	49:s1:183:GLN:HG3	1.44	0.98
55:I:30:SER:HB2	55:I:34:LEU:HB2	1.44	0.98
37:DK:43:LEU:HG	37:DK:47:ILE:HD11	1.46	0.98
55:s7:28:GLU:HB3	55:s7:35:LYS:HD3	1.44	0.98
51:E:40:ARG:HH12	68:V:110:PRO:HB3	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F:240:LYS:HD2	52:F:240:LYS:H	1.25	0.98
73:a:68:ARG:HB2	73:a:70:LYS:HZ1	1.29	0.97
74:b:36:ILE:HD11	74:b:73:TYR:HB2	1.43	0.97
78:e0:50:VAL:HG12	78:e0:52:GLY:H	1.28	0.97
55:I:11:GLN:HE21	55:I:13:PRO:HG2	1.29	0.96
70:X:30:SER:HB2	70:X:61:ILE:HG13	1.42	0.96
55:I:50:ASP:HB3	55:I:56:LYS:HG2	1.47	0.96
64:c6:82:ARG:HH12	64:c6:114:ARG:HB2	1.28	0.96
51:E:96:LEU:HD21	51:E:190:ARG:HB3	1.46	0.96
1:AR:1603:A:H61	26:CZ:71:THR:HG21	1.31	0.96
52:F:95:THR:HG22	72:Z:16:PRO:HG2	1.48	0.96
53:s5:216:GLU:HA	53:s5:219:ARG:HD3	1.48	0.95
1:AR:2522:G:O6	4:CD:70:ARG:NH2	1.97	0.95
53:s5:218:GLU:N	53:s5:219:ARG:NH1	2.14	0.95
50:D:101:VAL:HG23	50:D:115:ILE:HG22	1.46	0.95
1:AR:1095:U:H4'	1:AR:1096:U:H5''	1.49	0.94
14:t:47:ALA:HB1	14:t:49:ARG:H	1.32	0.94
48:B:22:THR:HG22	48:B:169:SER:HB2	1.45	0.94
57:K:171:ARG:HH21	57:K:174:ARG:HD3	1.32	0.94
53:s5:217:LEU:N	53:s5:219:ARG:HH11	1.64	0.94
1:1:3118:C:H4'	41:AN:106:ARG:HH12	1.29	0.94
47:A:186:C:H42	47:A:199:G:H1	1.08	0.94
47:A:720:G:H1'	47:A:721:U:H5''	1.47	0.94
60:N:31:VAL:HG12	60:N:132:GLU:HG2	1.47	0.94
1:1:1073:U:H1'	30:AC:50:THR:HG22	1.47	0.94
68:V:68:ARG:HH21	68:V:77:LYS:HA	1.33	0.93
47:sR:482:U:H3	47:sR:505:A:H61	1.13	0.93
47:A:1585:U:H3	47:A:1611:A:H2	1.16	0.93
62:P:17:ALA:HB3	62:P:81:VAL:HA	1.51	0.93
53:s5:25:LEU:HD12	64:c6:27:GLY:HA2	1.47	0.93
75:d7:59:CYS:SG	75:d7:61:THR:OG1	2.27	0.93
5:CE:232:ARG:NH1	5:CE:269:GLN:O	2.02	0.92
10:p:249:ARG:O	10:p:249:ARG:NH1	2.01	0.92
1:AR:2840:C:OP1	81:AR:4199:OHX:N2	2.03	0.92
14:CN:4:SER:HB2	14:CN:5:LYS:HB2	1.51	0.92
47:A:1471:A:O2'	53:G:102:ARG:NH2	2.03	0.92
30:DD:23:LYS:HD3	30:DD:24:PRO:HD2	1.50	0.92
1:AR:55:G:OP1	38:DL:43:LYS:NZ	2.02	0.92
12:CL:42:THR:HG22	12:CL:44:ASP:H	1.32	0.92
80:Rb:38:ARG:HA	80:Rb:67:ILE:HG23	1.52	0.92
80:h:19:TRP:HB2	80:h:38:ARG:HD2	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:230:C:N3	47:sR:235:G:N2	2.18	0.92
53:s5:189:THR:OG1	73:d5:97:LYS:NZ	2.03	0.92
47:A:320:U:H3'	47:A:321:C:H5''	1.52	0.92
47:A:767:U:H3	72:Z:64:PHE:HD2	1.06	0.92
1:AR:2264:U:OP2	81:AR:3456:OHX:N4	2.03	0.92
10:p:115:ALA:O	10:p:119:GLY:HA3	1.68	0.91
68:V:26:LEU:HD22	68:V:114:VAL:HA	1.52	0.91
66:c8:46:VAL:HG21	66:c8:73:MET:HG3	1.52	0.91
67:c9:6:VAL:HB	67:c9:66:TYR:HE2	1.34	0.91
1:AR:3194:C:O2	1:AR:3197:G:N2	2.04	0.91
64:c6:50:GLU:OE1	64:c6:82:ARG:NH2	2.04	0.91
66:c8:3:LEU:HD21	66:c8:56:LYS:HD3	1.48	0.91
4:CD:101:VAL:HG12	4:CD:165:VAL:HG22	1.51	0.91
66:T:115:ARG:O	66:T:119:ILE:HG12	1.70	0.91
47:sR:566:C:O2	78:e0:13:LYS:NZ	2.02	0.91
22:CV:51:GLY:HA3	22:CV:92:ARG:HG3	1.50	0.91
60:N:33:ARG:HA	60:N:36:LEU:HB2	1.49	0.91
16:v:106:VAL:HG11	16:v:132:VAL:HG11	1.51	0.91
47:sR:1534:G:N7	73:d5:77:ARG:NH2	2.18	0.91
49:C:146:GLN:HE21	49:C:206:PRO:HG3	1.36	0.91
74:b:87:ARG:HE	74:b:92:ARG:HA	1.35	0.91
80:h:216:LYS:HA	80:h:239:GLU:HG3	1.49	0.91
62:c4:20:TYR:HB3	62:c4:27:PHE:HB2	1.53	0.91
1:1:917:A:OP2	81:1:3601:OHX:N4	2.04	0.91
66:c8:17:LEU:HD21	66:c8:66:LEU:HD11	1.54	0.90
1:1:1580:A:O2'	26:8:33:ARG:NH2	2.03	0.90
65:c7:104:ASN:O	65:c7:105:GLN:NE2	2.03	0.90
47:sR:578:U:O2	81:sR:2005:OHX:N3	2.05	0.90
48:s0:79:ARG:NH2	48:s0:164:ASN:O	2.04	0.90
1:AR:640:U:OP1	29:DC:21:ARG:NH2	2.03	0.90
31:DE:20:SER:HB2	31:DE:96:GLY:HA3	1.54	0.90
28:DB:95:VAL:HG11	28:DB:113:VAL:HG11	1.54	0.90
4:j:149:ARG:NH2	4:j:252:THR:OG1	2.05	0.90
47:sR:40:A:O2'	81:sR:1964:OHX:N1	2.04	0.90
64:R:128:LYS:NZ	64:R:134:ALA:O	2.05	0.90
43:AP:48:SER:O	81:AP:502:OHX:N6	2.05	0.89
62:c4:30:VAL:HB	62:c4:39:ILE:HD11	1.54	0.89
53:G:92:ARG:HA	53:G:95:ASN:HD22	1.35	0.89
47:sR:1572:G:H1'	53:s5:185:ARG:HH22	1.35	0.89
1:AR:2169:G:O6	81:AR:3454:OHX:N4	2.05	0.89
47:A:25:C:O2	81:A:2125:OHX:N2	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2429:G:OP2	81:1:4112:OHX:N5	2.05	0.89
48:s0:38:PHE:O	48:s0:39:ASN:ND2	2.05	0.89
11:q:16:VAL:HG12	11:q:29:GLY:HA3	1.55	0.89
48:s0:112:THR:HG22	48:s0:114:SER:H	1.38	0.89
81:sR:1923:OHX:N2	56:s8:17:LYS:O	2.05	0.89
54:s6:137:ARG:HD3	54:s6:177:ARG:HD2	1.54	0.89
8:CH:76:LEU:H	8:CH:138:GLN:HE22	1.20	0.89
1:AR:343:U:OP2	81:AR:3425:OHX:N4	2.05	0.88
47:A:40:A:O2'	81:A:2125:OHX:N3	2.06	0.88
48:B:80:THR:HA	48:B:83:GLN:HG3	1.54	0.88
76:d:31:GLU:OE2	76:d:36:THR:OG1	1.88	0.88
3:4:43:A:OP1	81:4:215:OHX:N2	2.06	0.88
47:sR:959:U:OP2	75:d7:20:LYS:NZ	2.06	0.88
1:AR:2213:A:H2'	1:AR:2214:A:C8	2.09	0.88
1:1:1840:U:OP2	81:1:3486:OHX:N5	2.07	0.88
48:s0:84:ARG:NH1	48:s0:201:LEU:O	2.06	0.88
62:P:78:ALA:HB2	62:P:111:ARG:HB2	1.55	0.88
36:DJ:64:GLU:HG2	36:DJ:67:ARG:HH21	1.37	0.88
47:A:1672:G:H2'	47:A:1673:G:C8	2.09	0.88
68:d0:60:THR:O	81:d0:201:OHX:N4	2.06	0.88
5:CE:139:GLN:HG3	5:CE:141:GLY:H	1.38	0.87
47:A:169:A:H5''	54:H:176:GLN:HG2	1.53	0.87
1:1:2120:A:OP2	81:1:3509:OHX:N2	2.07	0.87
20:z:39:ASN:OD1	20:z:43:LYS:NZ	2.07	0.87
49:C:32:ILE:HB	49:C:43:VAL:HG21	1.55	0.87
47:sR:819:G:N2	47:sR:852:C:O2	2.06	0.87
72:d4:45:ALA:HA	72:d4:50:ALA:HB3	1.53	0.87
28:DB:104:PRO:HA	28:DB:107:ARG:HG3	1.55	0.87
60:N:63:VAL:HA	60:N:91:VAL:O	1.74	0.87
53:G:140:THR:HG21	53:G:210:ALA:HB1	1.57	0.87
47:sR:1222:C:H42	47:sR:1261:G:H1	1.22	0.87
11:q:12:VAL:HB	11:q:51:GLN:HA	1.54	0.87
14:CN:123:ILE:HG22	36:DJ:118:ILE:HG12	1.57	0.87
68:V:28:SER:HB2	68:V:112:VAL:HA	1.56	0.87
80:Rb:173:GLY:H	80:Rb:199:ILE:HD11	1.39	0.87
1:1:1493:G:O6	40:AM:2:ALA:N	2.08	0.87
51:E:40:ARG:HH22	68:V:110:PRO:HD3	1.37	0.87
26:CZ:88:MET:HE2	26:CZ:120:LYS:HB2	1.58	0.86
64:R:9:THR:HG21	64:R:88:GLY:HA2	1.56	0.86
13:s:115:LYS:HG2	13:s:116:TYR:H	1.40	0.86
50:D:56:ILE:HA	50:D:61:LEU:HD23	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:Y:74:VAL:HG11	71:Y:104:LEU:HD11	1.54	0.86
1:AR:161:G:N2	1:AR:260:C:O2	2.09	0.86
1:1:1594:A:OP1	35:AH:36:LYS:NZ	2.07	0.86
70:X:86:ILE:HD12	70:X:87:GLU:H	1.41	0.86
56:s8:36:THR:OG1	56:s8:96:LEU:O	1.94	0.86
15:CO:48:GLY:HA3	15:CO:53:VAL:HG13	1.55	0.86
46:p0:30:VAL:O	46:p0:33:VAL:HG12	1.74	0.86
47:A:636:A:H5''	70:X:31:SER:HB2	1.58	0.86
1:1:2794:G:N7	81:1:4098:OHX:N6	2.24	0.86
12:CL:220:GLN:O	81:CL:301:OHX:N2	2.09	0.86
47:A:140:A:OP2	54:H:187:LYS:NZ	2.06	0.86
47:sR:1006:C:O2	81:sR:1996:OHX:N2	2.08	0.86
54:s6:164:LYS:HD2	54:s6:166:GLU:OE1	1.76	0.86
55:s7:64:VAL:HG12	55:s7:94:ALA:HB1	1.55	0.86
47:sR:1672:G:H2'	47:sR:1673:G:C8	2.10	0.86
57:s9:77:ILE:HG23	57:s9:86:LEU:HD23	1.57	0.86
1:AR:2254:U:H3	1:AR:2263:C:H42	1.23	0.86
1:AR:3128:G:OP2	81:AR:3648:OHX:N2	2.09	0.86
41:DO:124:LYS:O	41:DO:126:LYS:NZ	2.08	0.86
31:DE:30:THR:HG23	31:DE:91:SER:HB2	1.58	0.85
66:T:56:LYS:HB3	66:T:60:GLU:OE1	1.74	0.85
73:a:68:ARG:HB2	73:a:70:LYS:NZ	1.90	0.85
47:sR:1665:U:O4	81:sR:1978:OHX:N6	2.09	0.85
55:I:13:PRO:HB3	55:I:14:THR:HG22	1.59	0.85
47:sR:895:G:H1	47:sR:917:U:H3	1.24	0.85
1:1:640:U:OP1	29:AB:21:ARG:NH2	2.09	0.85
36:DJ:119:LYS:HD3	36:DJ:120:ALA:H	1.41	0.85
54:H:164:LYS:HB3	54:H:167:LYS:HE2	1.57	0.85
1:1:1090:G:N7	81:1:3582:OHX:N1	2.25	0.85
47:A:169:A:OP1	54:H:137:ARG:NH1	2.09	0.85
47:A:1437:U:H5'	51:E:176:LEU:HD23	1.59	0.85
71:Y:75:GLN:HG3	71:Y:82:LYS:HG2	1.59	0.85
48:s0:139:VAL:HG13	48:s0:141:ILE:HD13	1.55	0.85
51:s3:33:GLY:HA3	51:s3:53:THR:HG22	1.57	0.85
66:T:36:LYS:HB2	66:T:102:ALA:HA	1.57	0.85
47:sR:486:G:H22	47:sR:501:U:H3	1.25	0.85
61:c3:60:VAL:HG23	61:c3:66:ILE:HD12	1.57	0.85
7:m:258:LYS:HG2	7:m:261:THR:HG22	1.56	0.85
17:w:27:LEU:HD21	17:w:102:LEU:HB2	1.57	0.85
60:N:129:GLU:HG3	60:N:133:LEU:HD22	1.59	0.85
71:Y:125:VAL:HG23	71:Y:126:LYS:HG3	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:c8:57:ARG:NH1	73:d5:40:VAL:HG22	1.90	0.85
47:sR:1361:U:H2'	47:sR:1362:U:H3'	1.59	0.85
62:c4:81:VAL:HB	62:c4:115:ILE:HD12	1.59	0.85
1:1:3107:U:OP1	41:AN:114:LYS:NZ	2.10	0.84
64:R:47:LYS:NZ	64:R:50:GLU:OE1	2.10	0.84
50:s2:165:VAL:HG11	50:s2:210:THR:HG22	1.58	0.84
27:DA:5:SER:HB3	27:DA:8:VAL:HG12	1.59	0.84
48:B:120:LEU:HD21	48:B:144:ILE:HD12	1.59	0.84
47:A:356:G:OP2	81:A:2137:OHX:N1	2.10	0.84
60:N:103:LEU:HD11	60:N:115:VAL:HA	1.58	0.84
66:T:28:ILE:HG21	66:T:61:LEU:HD21	1.59	0.84
58:c0:6:GLU:HA	58:c0:9:ASN:HD21	1.42	0.84
1:1:1257:C:H42	1:1:1261:G:H22	1.25	0.84
68:d0:58:LEU:HD22	68:d0:88:LYS:HE3	1.59	0.84
45:i:64:LYS:HZ2	45:i:65:THR:H	1.22	0.84
47:A:591:A:H5''	57:K:24:LEU:HD11	1.59	0.84
47:sR:235:G:H2'	47:sR:236:A:C8	2.13	0.84
53:s5:208:SER:HB2	53:s5:211:ILE:HG12	1.58	0.84
48:B:22:THR:HG22	48:B:169:SER:HB3	1.57	0.84
65:S:31:ASN:HD22	65:S:55:THR:HG22	1.41	0.84
1:1:2762:A:OP2	81:1:4098:OHX:N3	2.11	0.84
57:s9:118:LEU:HD23	57:s9:158:PHE:CE1	2.12	0.84
1:1:1374:G:O6	29:AB:10:LYS:NZ	2.10	0.84
11:q:110:LYS:O	11:q:128:VAL:HG12	1.78	0.84
54:H:14:LYS:HB2	54:H:124:LEU:HD11	1.60	0.84
56:s8:36:THR:HG21	56:s8:173:PRO:HB2	1.59	0.84
74:b:51:ARG:O	74:b:54:SER:OG	1.96	0.84
80:Rb:177:MET:SD	80:Rb:179:LYS:NZ	2.51	0.84
13:s:37:LEU:HD12	13:s:69:VAL:HG12	1.59	0.84
1:AR:799:G:O6	81:AR:3528:OHX:N4	2.11	0.84
53:s5:72:HIS:HD2	53:s5:107:LYS:HG2	1.42	0.84
47:A:1533:C:H4'	47:A:1539:G:H1	1.44	0.83
55:I:134:GLU:OE1	61:O:21:ASN:ND2	2.11	0.83
57:K:74:ASN:HA	57:K:77:ILE:HD11	1.60	0.83
52:s4:57:ASN:HB2	52:s4:60:GLU:HG3	1.60	0.83
61:c3:62:GLN:HB2	61:c3:65:VAL:HG22	1.60	0.83
2:3:26:C:H5'	7:m:56:THR:HB	1.60	0.83
1:AR:1466:G:O6	81:AR:3414:OHX:N2	2.10	0.83
26:CZ:72:ALA:HB1	26:CZ:83:VAL:HG21	1.61	0.83
80:Rb:213:SER:OG	80:Rb:221:MET:N	2.10	0.83
44:AQ:46:THR:OG1	44:AQ:57:CYS:SG	2.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:655:C:H2'	1:AR:656:A:H8	1.43	0.83
47:sR:1351:G:H5''	64:c6:66:ARG:HH22	1.41	0.83
50:s2:216:VAL:O	50:s2:220:ASN:ND2	2.11	0.83
7:CG:261:THR:HG23	7:CG:264:GLN:HE22	1.43	0.83
68:d0:23:ARG:HB3	68:d0:117:VAL:HG12	1.60	0.83
1:1:155:G:H1'	37:AJ:26:ILE:HD11	1.57	0.83
54:H:39:GLU:HB2	54:H:46:LYS:HG3	1.60	0.83
47:sR:1588:G:H1	47:sR:1608:U:H3	0.84	0.83
23:5:14:THR:HG22	23:5:66:VAL:HG22	1.60	0.83
2:3:79:A:OP2	81:3:219:OHX:N2	2.11	0.83
63:Q:75:PRO:HA	63:Q:93:VAL:HG23	1.60	0.83
71:Y:57:LEU:HD11	71:Y:73:ARG:HG3	1.61	0.83
1:1:525:C:OP2	15:u:77:ARG:NH1	2.12	0.83
1:1:1661:G:H2'	1:1:1662:G:C8	2.14	0.83
72:d4:12:VAL:HG23	72:d4:23:PHE:HB3	1.61	0.83
10:CJ:128:LYS:HD2	10:CJ:129:PRO:HD2	1.60	0.83
48:B:84:ARG:HD3	48:B:204:TYR:HA	1.58	0.83
51:E:22:ASN:ND2	51:E:34:TYR:OH	2.11	0.83
1:1:3377:G:O6	81:1:4139:OHX:N3	2.11	0.82
28:DB:109:GLU:HA	28:DB:112:LYS:HE3	1.59	0.82
47:A:513:U:H2'	47:A:514:G:C8	2.14	0.82
70:X:111:MET:HB2	70:X:115:GLU:HG2	1.60	0.82
49:s1:100:PHE:HD2	49:s1:181:LEU:HD21	1.44	0.82
62:c4:13:VAL:N	62:c4:77:THR:HG1	1.77	0.82
1:1:1806:A:OP2	81:1:4110:OHX:N5	2.12	0.82
57:K:77:ILE:HD13	57:K:91:LYS:HD3	1.61	0.82
47:sR:422:G:OP1	81:sR:1913:OHX:N1	2.11	0.82
6:CF:122:THR:HG22	6:CF:235:LEU:HB2	1.59	0.82
48:B:13:ASP:OD1	48:B:179:ARG:NH2	2.13	0.82
57:s9:118:LEU:HD23	57:s9:158:PHE:HE1	1.44	0.82
3:4:95:G:OP2	38:AK:72:ARG:NH1	2.11	0.82
1:AR:187:A:OP2	81:AR:3411:OHX:N2	2.11	0.82
64:R:47:LYS:HZ1	64:R:82:ARG:HH21	1.24	0.82
53:s5:215:ASP:O	53:s5:219:ARG:NE	2.13	0.82
54:s6:157:VAL:HG11	54:s6:175:ILE:HD11	1.62	0.82
62:c4:85:ALA:H	62:c4:119:THR:HG22	1.44	0.82
62:c4:128:LYS:HD3	74:d6:27:SER:HB3	1.61	0.82
65:S:41:ILE:HG21	65:S:47:ARG:HB3	1.61	0.82
80:h:114:ASP:HB3	80:h:123:ILE:HD11	1.60	0.82
47:sR:647:G:N2	47:sR:687:G:H22	1.78	0.82
1:1:2213:A:H2'	1:1:2214:A:C8	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:152:SER:HB3	80:h:172:ALA:O	1.79	0.82
1:1:1114:U:OP2	81:1:4106:OHX:N3	2.12	0.82
1:AR:2560:C:O2	81:AR:3531:OHX:N2	2.13	0.82
54:H:10:ASN:HB3	54:H:128:THR:HA	1.62	0.82
67:c9:61:VAL:HG12	67:c9:65:ILE:HD11	1.62	0.82
1:AR:3353:G:H1'	1:AR:3356:G:H5'	1.62	0.82
49:C:217:LEU:HD13	49:C:219:LYS:H	1.45	0.82
69:W:40:ASP:HB3	69:W:46:ILE:HD11	1.61	0.82
1:1:240:U:H4'	1:1:241:G:H5'	1.61	0.82
1:1:3377:G:O6	81:1:4139:OHX:N6	2.13	0.82
74:b:10:ARG:NH2	74:b:34:LYS:O	2.12	0.82
21:0:77:VAL:HG11	21:0:106:LEU:HD12	1.61	0.81
67:c9:54:PHE:CZ	67:c9:104:VAL:HG12	2.14	0.81
47:A:732:G:O2'	47:A:733:A:O4'	1.97	0.81
49:C:168:ILE:HG22	49:C:172:LEU:HD21	1.62	0.81
53:s5:218:GLU:H	53:s5:219:ARG:HH11	1.23	0.81
1:1:978:G:O2'	1:1:979:U:O2	1.98	0.81
1:1:1682:U:O2	23:5:82:LYS:NZ	2.13	0.81
1:1:1938:U:O4	81:1:3438:OHX:N2	2.13	0.81
35:AH:98:GLN:HB3	35:AH:102:LYS:NZ	1.96	0.81
1:AR:3103:A:OP2	81:AR:3648:OHX:N1	2.13	0.81
47:A:1795:U:H3'	74:b:5:ARG:HH12	1.45	0.81
51:E:115:ILE:HD11	51:E:138:VAL:HG11	1.62	0.81
52:F:122:LYS:HG2	52:F:164:LEU:HD11	1.63	0.81
48:s0:84:ARG:HH11	48:s0:84:ARG:HG2	1.46	0.81
72:d4:2:SER:HA	72:d4:32:ARG:HG3	1.62	0.81
26:8:34:LEU:HD22	26:8:35:PRO:HD2	1.61	0.81
31:DE:43:ILE:HD11	31:DE:92:ILE:HD11	1.62	0.81
55:I:9:LEU:HD11	55:I:17:GLU:HB3	1.63	0.81
53:s5:206:SER:H	53:s5:211:ILE:HD11	1.44	0.81
55:s7:185:ILE:HG22	55:s7:186:PRO:HD3	1.62	0.81
1:1:1033:U:H2'	1:1:1034:U:C6	2.16	0.81
14:CN:5:LYS:O	14:CN:7:LEU:HD13	1.80	0.81
46:p0:38:MET:HA	46:p0:41:VAL:HG12	1.63	0.81
57:K:171:ARG:HE	57:K:174:ARG:HE	1.28	0.81
1:AR:1170:A:OP2	81:AR:3502:OHX:N6	2.14	0.81
49:C:70:LEU:HD22	49:C:79:HIS:HB3	1.63	0.81
47:sR:1543:A:N6	47:sR:1568:C:O2	2.14	0.81
35:AH:109:THR:HA	35:AH:112:ALA:HB3	1.61	0.81
1:AR:1171:G:O6	81:AR:3502:OHX:N1	2.14	0.81
1:1:668:G:OP1	81:1:3590:OHX:N2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:388:G:H21	18:CR:101:ASN:HD21	1.25	0.81
6:CF:99:MET:HE3	6:CF:102:PRO:HA	1.63	0.81
10:CJ:245:LYS:NZ	10:CJ:245:LYS:O	2.14	0.81
14:CN:67:ARG:HB3	29:DC:105:LEU:HD21	1.61	0.81
47:A:482:U:H2'	47:A:483:A:H8	1.44	0.81
47:A:1339:C:O2'	47:A:1341:A:N7	2.12	0.81
65:S:35:CYS:HA	65:S:38:ILE:HG22	1.63	0.81
68:V:43:LYS:HB2	68:V:46:GLU:HB3	1.62	0.81
6:l:283:THR:HG22	6:l:285:ASP:H	1.46	0.81
6:CF:302:ALA:HB2	19:CS:39:ARG:HH12	1.46	0.81
42:DP:15:ARG:NH1	47:sR:1126:G:OP1	2.14	0.81
49:C:81:PHE:CD2	49:C:109:LYS:HE3	2.16	0.81
49:s1:171:ILE:HG21	49:s1:197:ILE:HG22	1.61	0.81
1:l:1580:A:H4'	1:l:1581:C:H5'	1.62	0.81
7:m:40:HIS:HB3	7:m:43:LYS:HD2	1.62	0.81
20:z:173:ARG:HA	20:z:176:ARG:HB2	1.63	0.81
28:DB:27:LYS:HD3	28:DB:42:LEU:HD12	1.63	0.81
52:F:194:THR:OG1	52:F:211:LYS:O	1.98	0.81
49:s1:129:THR:OG1	49:s1:131:ASP:OD1	1.98	0.81
1:AR:549:U:H2'	1:AR:550:A:C8	2.17	0.80
24:CX:54:LEU:HD21	24:CX:119:GLY:HA3	1.63	0.80
52:F:141:THR:OG1	52:F:143:ASP:OD1	1.98	0.80
55:s7:55:LYS:HE2	55:s7:55:LYS:HA	1.63	0.80
1:l:1603:A:H61	26:8:71:THR:HG21	1.44	0.80
19:y:175:ALA:O	29:AB:51:GLY:HA2	1.81	0.80
1:AR:1861:G:O6	81:AR:3553:OHX:N5	2.14	0.80
1:AR:2775:U:H1'	29:DC:58:MET:HE1	1.62	0.80
23:CW:14:THR:HG22	23:CW:66:VAL:HG13	1.61	0.80
47:A:992:A:O2'	47:A:1785:U:O2	1.98	0.80
47:sR:1097:U:H4'	47:sR:1098:U:H5'	1.60	0.80
51:s3:140:GLY:HA3	51:s3:182:LEU:HD22	1.63	0.80
51:E:76:ARG:O	51:E:76:ARG:NH1	2.15	0.80
76:d:15:VAL:HA	76:d:28:VAL:HG22	1.61	0.80
1:l:1354:G:H4'	8:n:8:LYS:HE3	1.63	0.80
39:DM:66:ILE:HG22	39:DM:77:ARG:HH21	1.45	0.80
67:c9:6:VAL:HB	67:c9:66:TYR:CE2	2.16	0.80
47:A:1228:G:H5'	60:N:45:LEU:HG	1.62	0.80
80:h:149:ASP:HB2	80:h:175:ASP:HB3	1.62	0.80
1:l:129:U:O4	81:l:3418:OHX:N5	2.15	0.80
35:DI:98:GLN:HA	35:DI:101:VAL:HG22	1.62	0.80
50:D:165:VAL:HG21	50:D:210:THR:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2261:G:O2'	1:AR:2263:C:N4	2.14	0.80
60:N:28:LEU:HD13	60:N:31:VAL:HG22	1.64	0.80
16:v:110:ALA:HB1	16:v:113:LEU:HD23	1.63	0.80
35:AH:41:ARG:HG2	35:AH:56:THR:HG21	1.63	0.80
6:CF:299:ILE:HD12	19:CS:39:ARG:HH21	1.47	0.80
51:s3:135:GLU:OE1	51:s3:185:LYS:NZ	2.09	0.80
1:AR:549:U:H2'	1:AR:550:A:H8	1.43	0.80
49:C:33:LYS:HG2	49:C:42:ASN:HA	1.64	0.80
80:Rb:123:ILE:HG22	80:Rb:133:VAL:HA	1.62	0.80
49:s1:144:ARG:HB2	49:s1:208:GLN:HB3	1.62	0.80
51:s3:41:VAL:HA	51:s3:46:THR:HG23	1.62	0.80
29:AB:75:LEU:HD22	29:AB:78:LEU:HD22	1.63	0.80
7:CG:64:ILE:HD12	7:CG:109:THR:HG21	1.63	0.80
62:P:42:VAL:HG23	62:P:46:MET:HE2	1.64	0.80
67:U:63:ARG:HE	67:U:67:MET:HE1	1.47	0.80
70:X:81:VAL:HG23	70:X:85:ASP:HB2	1.62	0.80
57:s9:129:ILE:HG22	57:s9:142:ASN:HA	1.63	0.80
63:c5:53:PRO:O	63:c5:57:MET:N	2.14	0.80
77:e:21:CYS:H	77:e:25:SER:HA	1.46	0.79
47:sR:962:C:OP2	61:c3:70:LYS:NZ	2.15	0.79
58:c0:23:ALA:HB3	58:c0:64:TYR:HB2	1.65	0.79
63:c5:67:ALA:O	81:c5:201:OHX:N2	2.16	0.79
67:c9:6:VAL:O	67:c9:9:VAL:HG12	1.82	0.79
39:DM:58:ASP:OD1	39:DM:61:LYS:N	2.15	0.79
47:A:1073:G:H2'	47:A:1074:G:H5''	1.62	0.79
51:E:5:ILE:HD11	51:E:9:ARG:HG2	1.61	0.79
57:s9:83:VAL:O	57:s9:107:ARG:NH1	2.14	0.79
12:r:76:MET:O	12:r:80:SER:HB2	1.82	0.79
13:s:166:LYS:HD3	13:s:167:TYR:H	1.48	0.79
1:AR:25:U:O4	81:AR:3408:OHX:N5	2.15	0.79
52:F:159:THR:OG1	52:F:227:VAL:O	2.01	0.79
72:Z:29:HIS:HB2	72:Z:32:ARG:HB3	1.64	0.79
80:h:153:GLN:O	80:h:172:ALA:HB3	1.82	0.79
74:d6:12:LYS:O	74:d6:15:ARG:NH1	2.16	0.79
1:1:1171:G:O6	81:1:4105:OHX:N2	2.14	0.79
1:1:3010:U:O4	81:1:4094:OHX:N5	2.15	0.79
1:1:3103:A:OP2	81:1:3612:OHX:N5	2.15	0.79
49:C:52:THR:O	49:C:56:SER:HB2	1.82	0.79
47:sR:218:A:H2'	47:sR:219:A:H5''	1.64	0.79
47:sR:235:G:H2'	47:sR:236:A:H8	1.45	0.79
47:sR:1030:A:OP1	74:d6:3:LYS:NZ	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1688:U:H3	47:sR:1713:G:H1	1.30	0.79
51:s3:105:MET:HE1	51:s3:119:ALA:HA	1.65	0.79
34:AG:75:HIS:HB3	34:AG:80:VAL:HG12	1.64	0.79
3:AT:43:A:OP1	81:AT:202:OHX:N3	2.14	0.79
57:s9:87:SER:HB3	57:s9:90:LYS:HD2	1.64	0.79
1:1:860:G:OP1	44:AQ:17:ARG:NH1	2.15	0.79
1:1:1854:C:OP2	81:1:3529:OHX:N5	2.15	0.79
1:AR:1930:A:O2'	81:AR:3428:OHX:N6	2.15	0.79
27:DA:56:VAL:HG11	27:DA:104:LEU:HD13	1.62	0.79
47:A:699:U:OP2	47:A:733:A:N6	2.15	0.79
59:M:33:ARG:NH1	59:M:48:ALA:O	2.16	0.79
62:P:31:THR:OG1	62:P:37:GLU:O	2.00	0.79
63:Q:24:LYS:O	63:Q:27:GLU:O	2.01	0.79
28:AA:16:GLY:O	28:AA:19:ALA:N	2.15	0.79
1:AR:2185:G:O2'	1:AR:2314:U:OP2	2.00	0.79
60:N:62:LEU:HD13	60:N:63:VAL:N	1.98	0.79
5:k:286:GLY:HA3	5:k:321:PHE:CE1	2.18	0.79
14:t:31:LYS:HE3	14:t:35:ARG:HG3	1.65	0.79
47:A:1014:G:OP1	81:A:2104:OHX:N5	2.14	0.79
49:s1:70:LEU:HB3	49:s1:79:HIS:HB3	1.64	0.79
81:1:4090:OHX:N5	86:1:4202:HOH:O	2.15	0.79
47:A:1498:G:H5''	67:U:72:GLY:HA3	1.63	0.79
63:Q:63:ALA:HB1	63:Q:74:ALA:HB3	1.65	0.79
67:U:116:ILE:HG22	67:U:122:ARG:HD3	1.65	0.79
47:sR:1086:A:H5'	50:s2:164:SER:HB3	1.64	0.79
53:s5:215:ASP:C	53:s5:219:ARG:CZ	2.56	0.79
10:p:65:LEU:HD23	16:v:25:VAL:HG13	1.64	0.78
1:AR:1554:U:H4'	1:AR:1555:U:H5'	1.65	0.78
78:e0:50:VAL:HG22	78:e0:54:ARG:HA	1.65	0.78
47:sR:1336:A:OP1	81:sR:2019:OHX:N5	2.16	0.78
72:d4:130:ALA:O	72:d4:133:ASN:ND2	2.15	0.78
30:AC:23:LYS:HD2	30:AC:24:PRO:HD3	1.65	0.78
47:A:1:U:O2'	57:K:54:ARG:NH1	2.15	0.78
3:4:36:G:OP2	36:AI:85:THR:OG1	2.01	0.78
49:s1:30:PHE:HB3	49:s1:96:LEU:HD22	1.66	0.78
1:AR:2605:G:N7	81:AR:3516:OHX:N4	2.30	0.78
54:H:2:LYS:HB2	54:H:108:VAL:HG12	1.66	0.78
60:N:63:VAL:HG22	60:N:91:VAL:HG23	1.64	0.78
61:c3:92:ILE:HD13	61:c3:122:ILE:HD13	1.64	0.78
74:d6:57:SER:OG	74:d6:58:VAL:O	2.00	0.78
1:1:3042:U:OP2	1:1:3092:C:N4	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:120:VAL:HG12	17:w:197:LEU:HD13	1.66	0.78
1:AR:1717:U:H2'	1:AR:1718:G:C8	2.18	0.78
1:AR:3054:U:O4	81:AR:4202:OHX:N5	2.16	0.78
47:A:1529:C:O2'	67:U:12:GLN:OE1	2.01	0.78
51:E:137:VAL:HG12	51:E:185:LYS:HB2	1.66	0.78
47:sR:31:C:OP1	71:d3:140:LYS:NZ	2.15	0.78
50:s2:116:LYS:NZ	50:s2:117:THR:O	2.16	0.78
1:1:1581:C:H2'	1:1:1582:C:H5'	1.65	0.78
10:p:95:ASN:OD1	10:p:98:ARG:NH1	2.16	0.78
13:s:32:ARG:HD2	13:s:120:ILE:HA	1.66	0.78
43:AP:35:LEU:HD22	43:AP:36:PHE:H	1.48	0.78
1:AR:1277:C:H2'	1:AR:1278:A:H8	1.48	0.78
1:AR:3182:G:OP1	17:CQ:160:ARG:NH2	2.16	0.78
81:AR:3408:OHX:N6	38:DL:44:THR:O	2.17	0.78
14:CN:47:ALA:CB	14:CN:49:ARG:H	1.97	0.78
47:A:487:G:H1	47:A:500:C:H42	1.31	0.78
64:R:89:LEU:HD21	64:R:105:LEU:HD23	1.66	0.78
47:sR:1495:C:OP1	81:sR:1967:OHX:N6	2.17	0.78
7:m:91:GLY:O	7:m:94:ASN:ND2	2.17	0.78
23:5:32:SER:HA	23:5:35:LYS:HB3	1.64	0.78
1:1:2258:U:OP2	81:1:3455:OHX:N2	2.16	0.78
45:i:64:LYS:NZ	45:i:70:ASN:OD1	2.16	0.78
45:i:131:ILE:HA	45:i:134:ASP:HB2	1.66	0.78
15:CO:55:ARG:NH2	15:CO:76:ALA:O	2.17	0.78
24:CX:133:SER:O	81:CX:202:OHX:N3	2.17	0.78
48:B:56:LYS:HB3	48:B:160:ILE:HG13	1.66	0.78
62:P:28:VAL:HB	62:P:43:THR:HG21	1.64	0.78
23:5:99:LYS:NZ	23:5:102:GLU:OE1	2.16	0.78
28:DB:102:GLU:H	28:DB:107:ARG:HE	1.29	0.78
47:A:542:A:H3'	47:A:543:C:H5'	1.65	0.78
52:F:183:VAL:HG12	52:F:189:LEU:HA	1.64	0.78
56:J:89:GLU:O	56:J:93:THR:HG22	1.84	0.78
74:b:87:ARG:NE	74:b:92:ARG:HA	1.97	0.78
1:1:2108:C:H1'	1:1:3344:A:C8	2.18	0.77
20:CT:3:ASN:HD21	20:CT:5:ARG:HB2	1.50	0.77
28:DB:13:VAL:HG12	28:DB:19:ALA:HA	1.66	0.77
47:A:108:A:H2'	47:A:109:G:C8	2.19	0.77
47:A:1160:A:H2'	47:A:1161:C:H6	1.50	0.77
80:Rb:200:ASN:H	80:Rb:215:GLY:HA3	1.47	0.77
64:c6:113:ASP:OD1	64:c6:116:LEU:N	2.17	0.77
81:4:235:OHX:N6	38:AK:60:GLY:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:y:158:HIS:H	19:y:186:VAL:HG12	1.46	0.77
47:A:162:A:H3'	47:A:163:G:H21	1.49	0.77
67:U:11:ALA:HA	67:U:63:ARG:HH12	1.47	0.77
54:s6:20:ASP:HB3	54:s6:23:ARG:HG3	1.64	0.77
1:1:3068:U:OP2	20:z:62:ARG:NH2	2.17	0.77
7:m:120:LYS:O	7:m:248:ARG:NH2	2.18	0.77
60:N:62:LEU:HD13	60:N:63:VAL:H	1.48	0.77
51:s3:211:PRO:HG3	65:c7:19:ARG:HB2	1.67	0.77
53:G:120:ILE:O	53:G:123:VAL:N	2.18	0.77
53:G:145:ASP:OD1	53:G:146:THR:N	2.14	0.77
65:S:28:PHE:HZ	65:S:48:ASN:HD22	1.31	0.77
50:s2:45:VAL:HG21	50:s2:68:ILE:HG23	1.65	0.77
51:s3:7:LYS:HE2	68:d0:27:THR:HG21	1.66	0.77
51:s3:223:LYS:HZ1	51:s3:225:TYR:HE1	1.31	0.77
10:p:101:THR:HG23	10:p:104:GLU:H	1.49	0.77
1:AR:24:G:OP2	81:AR:3408:OHX:N3	2.18	0.77
1:AR:2678:A:C5	45:sM:44:PRO:HB3	2.18	0.77
1:AR:2982:A:OP1	81:AR:3683:OHX:N6	2.17	0.77
12:CL:36:LEU:HD11	12:CL:87:LEU:HD23	1.66	0.77
14:CN:6:ASN:HB2	29:DC:48:TYR:CD2	2.20	0.77
46:p0:63:ILE:HG21	46:p0:77:LEU:HD11	1.65	0.77
47:A:955:A:OP1	61:O:3:ARG:NH1	2.17	0.77
49:C:32:ILE:HB	49:C:43:VAL:CG2	2.15	0.77
67:U:37:VAL:HG11	67:U:100:ILE:HD11	1.67	0.77
49:s1:100:PHE:CD2	49:s1:181:LEU:HD21	2.19	0.77
72:d4:87:PRO:HG2	72:d4:90:ARG:HG3	1.66	0.77
28:AA:104:PRO:HA	28:AA:107:ARG:HB2	1.66	0.77
27:DA:37:LYS:HD2	27:DA:37:LYS:H	1.49	0.77
47:A:61:A:H8	47:A:269:G:HO2'	1.31	0.77
47:A:487:G:O6	47:A:498:G:N1	2.16	0.77
47:sR:982:U:OP1	81:sR:1932:OHX:N2	2.16	0.77
51:s3:70:THR:HG22	51:s3:86:LEU:HG	1.67	0.77
1:AR:1661:G:H2'	1:AR:1662:G:C8	2.20	0.77
1:AR:1764:U:H3'	1:AR:1765:U:H4'	1.63	0.77
1:AR:3164:C:N4	1:AR:3286:G:O6	2.18	0.77
48:B:82:GLY:O	48:B:86:VAL:HG23	1.83	0.77
48:B:178:ALA:O	48:B:182:LEU:HG	1.83	0.77
69:W:1:MET:HB3	69:W:10:GLU:HB2	1.66	0.77
78:f:12:GLY:O	78:f:16:SER:HB3	1.85	0.77
55:s7:55:LYS:HA	55:s7:55:LYS:CE	2.15	0.77
55:s7:154:LEU:HD11	55:s7:183:PHE:HD2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1940:G:H21	1:AR:3362:A:H8	1.32	0.77
47:A:523:G:OP2	72:Z:37:LYS:NZ	2.14	0.77
47:A:1597:A:C8	77:e:14:TYR:HD2	2.02	0.77
47:sR:760:A:OP2	81:sR:1940:OHX:N3	2.18	0.77
55:s7:75:THR:HA	55:s7:79:ARG:HH21	1.49	0.77
1:1:830:A:OP1	81:1:3511:OHX:N3	2.18	0.77
1:1:2682:C:O4'	13:s:20:ASN:ND2	2.17	0.77
36:AI:85:THR:HG23	36:AI:88:LEU:H	1.50	0.77
1:AR:3159:C:OP1	81:AR:3664:OHX:N4	2.18	0.77
6:CF:283:THR:HG23	6:CF:285:ASP:H	1.49	0.77
53:G:222:LYS:HA	53:G:222:LYS:HE3	1.67	0.77
61:O:37:ILE:HG22	61:O:54:LEU:HD11	1.65	0.77
47:A:654:C:N4	47:A:679:U:O4	2.17	0.77
53:G:124:LEU:HD22	73:a:58:ARG:HE	1.49	0.77
80:Rb:199:ILE:HA	80:Rb:215:GLY:HA3	1.66	0.77
53:s5:37:GLN:HG2	53:s5:41:LYS:HA	1.65	0.77
1:1:1947:G:H1	1:1:2101:C:H42	1.32	0.76
18:x:50:GLN:OE1	18:x:56:ARG:NH1	2.18	0.76
34:AG:49:ILE:HD13	34:AG:100:ILE:HG12	1.67	0.76
1:1:1887:A:OP1	81:1:3567:OHX:N1	2.18	0.76
1:1:2108:C:H1'	1:1:3344:A:H8	1.50	0.76
1:AR:145:G:O6	81:AR:3518:OHX:N5	2.17	0.76
1:AR:900:G:H1'	1:AR:1589:A:N6	1.99	0.76
12:CL:117:GLY:O	81:CL:302[B]:OHX:N4	2.17	0.76
47:A:1591:C:H2'	47:A:1592:A:H8	1.49	0.76
61:O:142:GLU:OE2	61:O:144:ALA:N	2.17	0.76
76:d8:54:LEU:HD22	76:d8:55:VAL:H	1.49	0.76
1:1:1268:G:N2	1:1:1269:U:O4	2.17	0.76
30:DD:33:LYS:HE3	30:DD:34:GLY:H	1.49	0.76
64:R:29:ILE:HG22	64:R:65:ILE:HB	1.67	0.76
1:AR:1789:G:O6	81:AR:3671:OHX:N1	2.18	0.76
12:CL:169:LYS:HD3	22:CV:159:PHE:HA	1.67	0.76
52:F:107:GLY:HA2	52:F:189:LEU:HD23	1.67	0.76
21:CU:138:GLN:HA	21:CU:141:LYS:HB2	1.67	0.76
46:p0:30:VAL:HG13	46:p0:33:VAL:CG1	2.15	0.76
53:G:163:SER:HB3	76:d:46:GLY:HA3	1.68	0.76
47:sR:478:A:OP1	78:e0:37:ARG:NH1	2.18	0.76
1:1:1412:G:OP1	33:AF:105:ARG:NH2	2.18	0.76
29:AB:45:MET:O	29:AB:49:HIS:N	2.18	0.76
53:G:44:ASN:ND2	53:G:69:PHE:O	2.19	0.76
53:G:121:ILE:HD11	53:G:129:PRO:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:d2:31:SER:HB3	70:d2:34:ILE:HG13	1.68	0.76
44:DR:46:THR:OG1	44:DR:57:CYS:SG	2.44	0.76
47:sR:1595:U:H3	47:sR:1600:A:H2	1.31	0.76
80:Rb:300:THR:HA	80:Rb:314:GLN:HB2	1.66	0.76
52:s4:129:VAL:HG23	52:s4:139:VAL:HG12	1.65	0.76
30:AC:18:ARG:O	81:AC:101:OHX:N2	2.17	0.76
80:h:123:ILE:HG21	80:h:169:ILE:HG21	1.68	0.76
47:sR:894:U:H2'	47:sR:895:G:C8	2.20	0.76
47:sR:1699:G:O2'	47:sR:1702:A:N6	2.19	0.76
13:s:40:LEU:HD21	13:s:79:ILE:HG21	1.67	0.76
47:A:488:G:N7	47:A:498:G:N2	2.34	0.76
47:A:703:G:H2'	47:A:704:C:H5'	1.67	0.76
49:C:135:LEU:HA	49:C:217:LEU:HB2	1.67	0.76
63:Q:26:LEU:HD23	63:Q:27:GLU:HB2	1.67	0.76
68:V:68:ARG:NH2	68:V:77:LYS:HA	2.01	0.76
55:s7:41:LEU:HB3	55:s7:70:PHE:CE1	2.21	0.76
61:c3:72:MET:HE1	61:c3:82:PRO:HD2	1.66	0.76
1:1:2232:A:OP2	81:1:4120:OHX:N2	2.19	0.76
28:AA:48:ARG:HB3	28:AA:69:LYS:HB3	1.68	0.76
13:CM:15:GLU:HG3	13:CM:132:ASN:ND2	2.00	0.76
47:A:142:G:H22	47:A:173:A:H2	1.34	0.76
47:A:205:U:O4	81:A:2120:OHX:N5	2.19	0.76
47:sR:68:A:O2'	47:sR:69:G:OP2	2.04	0.76
47:sR:1679:G:O6	81:sR:1950[B]:OHX:N3	2.19	0.76
1:1:1575:A:N6	1:1:1576:G:N7	2.34	0.75
1:AR:2552:C:H5	31:DE:53:LYS:HE2	1.51	0.75
1:AR:2704:A:OP2	81:AR:3401:OHX:N6	2.19	0.75
47:A:78:A:O3'	54:H:159:ARG:NH2	2.18	0.75
47:A:1370:U:O4	81:A:1960:OHX:N1	2.19	0.75
47:A:1449:U:H2'	47:A:1450:U:C6	2.20	0.75
55:I:173:TYR:CD1	55:I:181:ILE:HD11	2.22	0.75
47:sR:1050:G:O6	81:sR:2175:OHX:N6	2.19	0.75
1:1:1808:G:O6	81:1:4110:OHX:N4	2.20	0.75
1:1:2924:U:O2'	81:1:3595:OHX:N2	2.19	0.75
6:l:295:ILE:O	6:l:299:ILE:HG13	1.86	0.75
1:AR:899:U:O4	81:AR:3463:OHX:N5	2.19	0.75
73:d5:60:VAL:HA	73:d5:64:VAL:HG21	1.68	0.75
1:1:2982:A:OP1	81:1:3615:OHX:N3	2.20	0.75
44:AQ:49:ARG:HD3	44:AQ:52:ALA:HA	1.66	0.75
14:CN:47:ALA:HB1	14:CN:49:ARG:H	1.50	0.75
81:1:4105:OHX:N3	9:o:217:PRO:O	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:p:116:VAL:HG23	10:p:121:SER:H	1.51	0.75
15:CO:59:ASN:HD22	15:CO:61:GLY:H	1.35	0.75
63:Q:97:TYR:HD2	63:Q:102:PHE:CE2	2.05	0.75
47:sR:987:G:N7	81:sR:1974:OHX:N4	2.34	0.75
47:sR:1388:A:H5''	65:c7:48:ASN:HD22	1.50	0.75
1:1:2833:A:OP1	81:1:3602:OHX:N5	2.19	0.75
1:AR:252:U:H5'	1:AR:253:A:H5'	1.69	0.75
1:AR:2112:U:O2	81:AR:3476:OHX:N5	2.20	0.75
47:A:1610:G:H4'	53:G:98:MET:HE1	1.66	0.75
47:sR:251:A:H2	52:s4:131:LEU:HD12	1.51	0.75
80:Rb:171:SER:HB2	80:Rb:181:TRP:HE1	1.52	0.75
61:c3:87:ASP:HB3	61:c3:125:LEU:HD21	1.68	0.75
1:1:1562:C:H2'	1:1:1563:C:C6	2.21	0.75
47:A:567:A:H1'	78:f:14:VAL:HG13	1.68	0.75
73:a:61:SER:H	73:a:64:VAL:HB	1.52	0.75
80:h:211:ILE:HD11	80:h:225:LEU:HB2	1.68	0.75
52:s4:151:ASP:OD1	54:s6:215:ARG:NH2	2.20	0.75
44:DR:3:LYS:HD3	44:DR:4:ARG:H	1.51	0.75
47:sR:587:C:OP2	78:e0:23:LYS:NZ	2.18	0.75
62:c4:53:ASP:O	62:c4:56:SER:OG	2.05	0.75
1:1:2822:U:OP2	81:1:3430:OHX:N5	2.18	0.75
28:AA:26:VAL:HG21	28:AA:96:VAL:HG12	1.69	0.75
52:F:143:ASP:OD1	52:F:143:ASP:N	2.13	0.75
53:s5:192:GLU:OE1	73:d5:63:SER:OG	2.05	0.75
1:1:964:G:OP1	81:1:4106:OHX:N2	2.19	0.75
1:AR:2123:G:O6	81:AR:3598:OHX:N5	2.19	0.75
47:A:479:C:OP1	57:K:121:SER:OG	2.05	0.75
52:F:156:VAL:HG23	52:F:157:ASN:OD1	1.87	0.75
1:1:655:C:H2'	1:1:656:A:H8	1.51	0.74
62:P:14:PHE:HA	62:P:78:ALA:O	1.87	0.74
67:U:132:LEU:HD12	67:U:133:ASP:H	1.52	0.74
72:Z:113:ASN:HA	72:Z:116:LYS:HD3	1.68	0.74
80:Rb:23:LEU:HG	80:Rb:291:SER:HB2	1.69	0.74
1:1:1554:U:H4'	1:1:1555:U:H5'	1.69	0.74
1:1:1953:G:N2	1:1:2094:C:O2	2.15	0.74
21:O:135:VAL:O	21:O:141:LYS:NZ	2.20	0.74
2:AS:23:A:H2'	2:AS:24:A:C8	2.22	0.74
33:DG:80:LYS:HD2	33:DG:80:LYS:H	1.52	0.74
38:DL:65:ARG:HH11	38:DL:65:ARG:HG3	1.52	0.74
1:AR:3170:A:OP2	34:DH:56:SER:OG	2.05	0.74
40:DN:9:ILE:O	40:DN:13:MET:HG3	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1292:G:H21	48:B:111:ILE:HD11	1.53	0.74
47:A:1474:G:H2'	47:A:1475:A:C8	2.21	0.74
47:A:1680:G:O6	81:A:1956:OHX:N5	2.19	0.74
51:E:110:LEU:HD11	51:E:175:VAL:HG23	1.68	0.74
60:N:62:LEU:HD11	60:N:72:ILE:HG22	1.70	0.74
48:s0:84:ARG:HH22	48:s0:201:LEU:HD12	1.53	0.74
1:AR:1213:G:H4'	21:CU:90:MET:HG3	1.67	0.74
47:A:1559:A:H5''	66:T:135:GLY:HA3	1.70	0.74
60:N:73:LYS:HD2	79:g:108:VAL:HG21	1.69	0.74
80:h:24:ALA:HB2	80:h:72:THR:H	1.53	0.74
47:sR:513:U:OP1	57:s9:133:HIS:NE2	2.17	0.74
1:1:1233:G:O2'	1:1:1256:G:N2	2.21	0.74
57:K:45:ILE:HA	57:K:48:GLN:OE1	1.87	0.74
6:l:122:THR:HG22	6:l:235:LEU:HB2	1.68	0.74
31:DE:10:ILE:HG21	31:DE:68:TYR:HE2	1.50	0.74
47:A:322:G:O2'	56:J:10:LYS:NZ	2.20	0.74
47:A:992:A:H2	47:A:1012:U:H3	1.36	0.74
47:A:1280:C:H2'	47:A:1281:G:H8	1.52	0.74
47:sR:976:G:O6	81:sR:1936:OHX:N6	2.20	0.74
47:sR:1524:A:H2'	47:sR:1525:A:C8	2.22	0.74
57:s9:107:ARG:HH11	57:s9:107:ARG:HG3	1.50	0.74
47:A:887:A:H1'	62:P:122:PRO:HB3	1.69	0.74
47:A:1570:A:OP1	81:A:2135:OHX:N3	2.20	0.74
52:F:157:ASN:HD22	52:F:222:LEU:CD2	2.00	0.74
56:s8:194:ARG:NH1	56:s8:197:THR:OG1	2.20	0.74
76:d8:56:LEU:HD22	76:d8:57:MET:H	1.52	0.74
78:e0:48:THR:HB	78:e0:50:VAL:HG23	1.70	0.74
1:AR:3103:A:OP2	81:AR:3648:OHX:N4	2.20	0.74
22:CV:103:GLN:N	22:CV:103:GLN:OE1	2.19	0.74
31:DE:16:LEU:O	31:DE:20:SER:OG	2.06	0.74
80:Rb:224:ASN:HB3	80:Rb:231:MET:HE1	1.68	0.74
53:s5:57:SER:HB2	76:d8:53:ILE:HB	1.70	0.74
1:AR:1696:A:OP2	86:AR:4301:HOH:O	2.04	0.74
6:CF:26:PHE:HD2	6:CF:130:ALA:HB2	1.52	0.74
11:CK:129:ARG:H	11:CK:157:ASN:ND2	1.86	0.74
23:CW:22:PRO:HA	23:CW:107:PHE:HZ	1.52	0.74
23:CW:79:LEU:H	23:CW:79:LEU:HD12	1.53	0.74
37:DK:59:ASP:O	37:DK:63:ASN:ND2	2.17	0.74
45:sM:44:PRO:O	45:sM:47:ALA:N	2.20	0.74
51:E:27:ARG:HB3	58:L:58:GLN:HE21	1.52	0.74
68:V:26:LEU:HD13	68:V:114:VAL:HG12	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:g:116:LYS:NZ	79:g:120:GLU:OE2	2.20	0.74
47:sR:329:G:H5''	56:s8:98:LYS:HB3	1.68	0.74
69:d1:1:MET:HB3	69:d1:10:GLU:HG3	1.68	0.74
5:k:152:LYS:HG2	5:k:192:VAL:HG11	1.69	0.74
23:5:22:PRO:HG2	23:5:105:LEU:HB3	1.70	0.74
1:AR:1348:U:O2	1:AR:1349:G:N2	2.21	0.74
53:G:114:ILE:O	53:G:118:LEU:HD23	1.87	0.74
48:s0:124:THR:HG22	48:s0:174:TRP:HE1	1.53	0.74
1:1:528:U:H2'	1:1:529:A:C8	2.21	0.73
1:1:544:C:H1'	1:1:548:G:H22	1.53	0.73
1:1:651:G:O2'	1:1:1435:A:OP1	2.06	0.73
12:r:140:THR:HG21	12:r:144:ASN:HD22	1.53	0.73
13:s:21:ILE:HD11	13:s:37:LEU:CD2	2.18	0.73
44:DR:73:THR:HG23	44:DR:76:ALA:H	1.52	0.73
51:s3:137:VAL:HG22	51:s3:151:LYS:HB2	1.69	0.73
4:j:179:LEU:O	4:j:184:ARG:HD3	1.87	0.73
24:6:87:ARG:HH22	24:6:137:VAL:HG22	1.53	0.73
43:AP:98:LYS:NZ	43:AP:99:GLN:OE1	2.20	0.73
1:AR:916:G:C6	4:CD:207:VAL:HG21	2.23	0.73
47:A:930:A:OP1	74:b:32:LYS:NZ	2.21	0.73
51:E:7:LYS:HA	51:E:10:LYS:HB3	1.70	0.73
80:h:38:ARG:HG2	80:h:67:ILE:HD12	1.69	0.73
66:c8:24:GLY:HA2	66:c8:58:ALA:HB3	1.70	0.73
1:AR:979:U:H1'	1:AR:980:A:C8	2.24	0.73
1:AR:1232:C:H5	1:AR:1261:G:H2'	1.52	0.73
5:CE:41:VAL:HA	5:CE:185:GLY:HA3	1.69	0.73
51:E:8:LYS:HE2	68:V:61:LYS:HE3	1.70	0.73
51:s3:76:ARG:HG3	51:s3:77:PHE:CE1	2.23	0.73
1:1:1636:U:H5''	28:AA:73:LYS:HE3	1.69	0.73
7:m:236:LEU:H	7:m:239:ILE:HD13	1.52	0.73
25:7:39:LEU:HD22	25:7:44:LYS:HG3	1.68	0.73
1:AR:368:G:OP1	81:AR:3425:OHX:N3	2.22	0.73
1:AR:2586:G:N7	10:CJ:241:LYS:HB2	2.04	0.73
7:CG:4:GLN:HG3	7:CG:7:ALA:HB2	1.70	0.73
47:sR:678:A:H2'	47:sR:679:U:C2	2.23	0.73
71:d3:125:VAL:HG23	71:d3:126:LYS:HG3	1.70	0.73
1:1:2193:U:H5'	1:1:2194:G:H5'	1.70	0.73
1:1:2403:G:OP2	86:1:4201:HOH:O	2.07	0.73
1:1:3364:C:OP1	81:1:3451:OHX:N2	2.21	0.73
1:AR:357:A:H1'	6:CF:80:GLY:HA3	1.69	0.73
1:AR:1861:G:OP2	81:AR:3495:OHX:N4	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F:19:LEU:HD21	52:F:108:ARG:HD2	1.68	0.73
62:P:16:VAL:CA	62:P:79:VAL:HG21	2.18	0.73
53:s5:189:THR:HG23	53:s5:192:GLU:H	1.53	0.73
61:c3:39:LYS:O	61:c3:43:LYS:HG3	1.88	0.73
13:s:12:LEU:HD22	13:s:131:MET:HE3	1.70	0.73
15:u:48:GLY:HA3	15:u:53:VAL:HB	1.69	0.73
1:AR:2347:U:O4	81:AR:3431:OHX:N6	2.22	0.73
47:A:740:A:H2'	47:A:741:C:H5''	1.70	0.73
62:P:127:ARG:HG3	74:b:22:ARG:HH12	1.52	0.73
81:1:3562:OHX:N1	37:AJ:28:TYR:O	2.22	0.73
1:AR:2898:G:N7	41:DO:125:LYS:NZ	2.35	0.73
64:R:113:ASP:OD1	64:R:116:LEU:N	2.21	0.73
53:s5:117:THR:HG21	53:s5:194:LEU:HD23	1.68	0.73
53:s5:215:ASP:O	53:s5:219:ARG:CZ	2.37	0.73
65:c7:87:GLU:HG2	65:c7:88:VAL:HG22	1.71	0.73
1:1:44:U:H5''	16:v:85:THR:HG23	1.71	0.73
1:1:508:U:O4	81:1:3506:OHX:N5	2.22	0.73
5:k:53:MET:HG2	5:k:77:THR:HG22	1.70	0.73
20:CT:109:TYR:HB3	20:CT:115:ILE:HG12	1.71	0.73
47:A:407:A:H2'	47:A:408:C:H6	1.53	0.73
47:A:817:A:H1'	55:I:110:GLN:HE22	1.54	0.73
48:B:180:GLU:O	48:B:184:LEU:HD12	1.88	0.73
1:1:837:A:OP2	44:AQ:4:ARG:NH1	2.22	0.73
16:v:183:THR:HG22	16:v:187:ARG:HB2	1.70	0.73
1:AR:255:A:H2'	1:AR:256:G:H8	1.54	0.73
1:AR:2404:A:N7	1:AR:2872:A:N6	2.37	0.73
68:V:27:THR:HG23	68:V:113:ASP:HB3	1.70	0.73
75:c:53:ALA:HA	75:c:64:CYS:HB2	1.71	0.73
47:sR:747:C:O2'	70:d2:124:LYS:NZ	2.20	0.73
80:Rb:62:LYS:NZ	64:c6:94:GLN:OE1	2.18	0.73
64:c6:29:ILE:HD11	64:c6:63:ILE:HD13	1.68	0.73
20:z:11:ALA:O	20:z:15:VAL:HG12	1.89	0.73
1:AR:118:U:O2	1:AR:121:A:H5'	1.89	0.73
1:AR:410:U:O4	81:AR:3601:OHX:N1	2.22	0.73
1:AR:566:G:N7	81:AR:3624:OHX:N5	2.36	0.73
1:AR:2759:U:H5''	1:AR:2760:C:H5'	1.71	0.73
27:DA:3:LYS:HD2	27:DA:8:VAL:HG13	1.70	0.73
28:DB:46:ILE:HD13	28:DB:68:ILE:HG23	1.70	0.73
49:C:30:PHE:HD1	49:C:31:ASP:H	1.35	0.73
49:C:142:PHE:O	49:C:207:LEU:HD23	1.88	0.73
47:sR:1171:A:H2'	47:sR:1172:G:C8	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s3:48:VAL:HB	51:s3:86:LEU:HD22	1.70	0.73
69:d1:73:ALA:HB3	69:d1:79:LEU:HD12	1.70	0.73
1:l:433:A:OP2	34:AG:57:LYS:NZ	2.20	0.72
10:p:88:ALA:O	10:p:92:LYS:HG3	1.89	0.72
1:AR:3085:G:OP2	81:AR:3407:OHX:N1	2.21	0.72
50:D:116:LYS:HG2	50:D:117:THR:H	1.54	0.72
52:F:126:VAL:HA	52:F:141:THR:HG22	1.70	0.72
53:G:23:VAL:HG11	64:R:58:ASP:HA	1.71	0.72
47:sR:1459:C:OP1	66:c8:126:ARG:NH2	2.20	0.72
47:sR:1542:G:N2	47:sR:1569:A:OP2	2.21	0.72
11:q:106:LYS:O	11:q:109:ALA:HB2	1.88	0.72
1:AR:1018:G:H2'	1:AR:1019:G:O4'	1.90	0.72
1:AR:1029:G:H2'	1:AR:1030:A:H8	1.54	0.72
5:CE:56:ILE:HG12	5:CE:356:LEU:HD22	1.72	0.72
37:DK:28:TYR:O	81:DK:201:OHX:N2	2.21	0.72
47:A:1160:A:H2'	47:A:1161:C:C6	2.24	0.72
49:C:78:ASP:OD1	49:C:78:ASP:N	2.22	0.72
57:K:108:ARG:HH21	57:K:145:SER:HB3	1.53	0.72
47:sR:75:U:O2'	47:sR:76:A:O4'	2.05	0.72
47:sR:407:A:H2'	47:sR:408:C:C6	2.23	0.72
48:s0:76:ILE:HD12	48:s0:98:ILE:HB	1.70	0.72
68:d0:41:ILE:HA	68:d0:44:ASN:HB3	1.70	0.72
74:d6:5:ARG:HB2	74:d6:8:ASN:HA	1.71	0.72
1:l:1494:U:P	40:AM:42:ARG:HH22	2.12	0.72
1:l:1596:C:H2'	1:l:1597:C:C6	2.25	0.72
1:l:2728:G:N7	22:2:87:LYS:NZ	2.38	0.72
14:t:47:ALA:CB	14:t:49:ARG:H	2.02	0.72
35:DI:41:ARG:HG2	35:DI:56:THR:HG21	1.72	0.72
47:A:438:A:OP1	81:A:1908:OHX:N1	2.22	0.72
7:m:65:ILE:HG21	7:m:72:ASP:HB3	1.71	0.72
14:t:74:GLY:HA3	14:t:98:ASP:HB2	1.70	0.72
1:AR:1778:G:O2'	1:AR:1780:G:OP2	2.08	0.72
47:A:591:A:H2'	47:A:592:A:C8	2.23	0.72
47:A:862:A:OP2	61:O:64:ARG:NH1	2.23	0.72
80:Rb:115:ILE:HG23	80:Rb:122:ILE:HB	1.70	0.72
48:s0:9:LEU:HB2	48:s0:54:TRP:CD1	2.24	0.72
51:s3:57:ASP:OD1	51:s3:57:ASP:N	2.20	0.72
66:c8:30:TYR:HE2	66:c8:40:ARG:HE	1.36	0.72
73:d5:75:LEU:O	73:d5:78:ILE:HG22	1.88	0.72
7:m:69:ILE:HD12	7:m:69:ILE:H	1.54	0.72
35:AH:67:LYS:HA	35:AH:70:LYS:HE3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1298:C:OP2	81:AR:3514:OHX:N2	2.22	0.72
13:CM:60:ARG:O	13:CM:63:GLU:HB2	1.90	0.72
24:CX:126:TRP:HB2	24:CX:129:VAL:HG12	1.70	0.72
28:DB:96:VAL:HA	28:DB:100:THR:HG21	1.72	0.72
28:DB:135:ARG:HD3	28:DB:136:PHE:H	1.54	0.72
47:A:927:C:O2'	62:P:124:ASP:O	2.06	0.72
49:C:144:ARG:HG3	49:C:206:PRO:HB3	1.70	0.72
72:Z:127:LYS:HD2	72:Z:128:LYS:N	2.04	0.72
80:h:111:MET:N	80:h:125:GLY:O	2.15	0.72
14:t:46:ILE:HG22	14:t:47:ALA:HB2	1.72	0.72
15:u:72:LEU:HD12	15:u:73:PRO:HD2	1.72	0.72
1:AR:845:G:O6	81:AR:3537:OHX:N6	2.22	0.72
1:AR:1239:C:H42	1:AR:1249:G:H22	1.36	0.72
47:A:1201:G:H22	47:A:1600:A:H5''	1.54	0.72
47:A:1471:A:C8	47:A:1540:G:H1'	2.24	0.72
63:Q:14:THR:CG2	63:Q:22:LEU:HB3	2.19	0.72
80:Rb:81:LEU:CD1	80:Rb:122:ILE:HD13	2.14	0.72
33:AF:100:ILE:O	33:AF:105:ARG:NH1	2.22	0.72
39:AL:38:PHE:HE2	39:AL:57:ASN:HB3	1.55	0.72
47:A:641:G:H1	47:A:693:U:H3	1.35	0.72
47:A:938:G:N7	81:A:1939:OHX:N2	2.37	0.72
49:C:46:THR:HG22	49:C:47:LEU:H	1.55	0.72
63:Q:81:ARG:NH1	63:Q:97:TYR:O	2.23	0.72
1:1:380:U:O4	81:1:3613:OHX:N4	2.23	0.72
1:1:900:G:H1'	1:1:1589:A:N6	2.05	0.72
1:1:3066:U:O4	81:1:4128:OHX:N4	2.22	0.72
1:AR:2539:C:N4	49:s1:233:GLY:O	2.22	0.72
68:V:20:ILE:HD12	68:V:21:LYS:H	1.53	0.72
80:Rb:5:GLU:OE1	80:Rb:249:ARG:NH1	2.22	0.72
50:s2:39:THR:HG23	50:s2:42:GLY:H	1.53	0.72
7:m:276:LYS:H	7:m:276:LYS:HD2	1.55	0.72
1:AR:3376:A:OP2	81:AR:3435:OHX:N4	2.22	0.72
33:DG:16:LYS:NZ	33:DG:17:PHE:O	2.23	0.72
47:A:69:G:H1	47:A:82:U:H3	1.38	0.72
47:A:583:C:OP1	81:A:2105:OHX:N4	2.21	0.72
47:A:647:G:H22	47:A:687:G:H1	1.38	0.72
47:A:1628:U:H2'	47:A:1629:G:C8	2.25	0.72
49:C:165:ARG:O	49:C:169:SER:OG	2.06	0.72
50:D:43:ARG:CZ	50:D:249:ALA:HB2	2.20	0.72
53:G:40:ILE:HB	53:G:49:GLU:OE1	1.90	0.72
65:S:66:VAL:HG12	65:S:69:ILE:HD13	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s2:179:VAL:O	50:s2:198:THR:OG1	2.07	0.72
1:1:2314:U:O4	81:1:4090:OHX:N2	2.22	0.72
12:r:14:ASN:O	12:r:128:ARG:NH2	2.22	0.72
21:0:42:TRP:O	21:0:46:GLN:HG3	1.90	0.72
1:AR:3324:C:OP1	32:DF:19:ARG:NH2	2.22	0.72
81:AR:4175:OHX:N5	3:AT:139:U:O4	2.22	0.72
28:DB:27:LYS:HB2	28:DB:42:LEU:HB2	1.71	0.72
48:B:60:ALA:O	48:B:64:ILE:HG13	1.89	0.72
55:I:24:PHE:HD1	55:I:28:GLU:OE1	1.72	0.72
72:Z:37:LYS:HA	72:Z:40:LEU:HD12	1.70	0.72
77:e:25:SER:OG	81:e:102:OHX:N4	2.23	0.72
80:h:22:SER:HB2	80:h:69:GLN:O	1.90	0.72
78:e0:62:VAL:O	78:e0:63:GLN:HG2	1.90	0.72
44:AQ:44:LYS:HG3	44:AQ:46:THR:HG23	1.72	0.71
1:AR:718:G:C2	1:AR:721:G:H1'	2.25	0.71
1:AR:2255:A:OP2	81:AR:3448:OHX:N2	2.22	0.71
1:AR:2552:C:C5	31:DE:53:LYS:HE2	2.24	0.71
46:p0:37:GLN:HE22	46:p0:184:GLY:HA2	1.54	0.71
48:B:28:ASN:HA	48:B:46:HIS:HE1	1.54	0.71
50:D:179:VAL:HG22	50:D:197:TYR:HA	1.71	0.71
47:sR:1130:G:OP2	81:sR:1969:OHX:N1	2.23	0.71
53:s5:44:ASN:HD22	53:s5:115:LYS:HG3	1.55	0.71
57:s9:79:ARG:O	57:s9:83:VAL:HG22	1.89	0.71
1:AR:664:U:H2'	1:AR:665:A:C8	2.25	0.71
11:CK:20:ILE:HG12	11:CK:25:VAL:HG22	1.70	0.71
63:Q:31:GLU:OE2	63:Q:31:GLU:N	2.18	0.71
1:1:2843:U:OP1	81:1:3600:OHX:N4	2.22	0.71
1:AR:2561:A:C2	10:CJ:32:LYS:HG3	2.25	0.71
2:AS:28:C:OP1	13:CM:137:ARG:NH1	2.24	0.71
5:CE:105:VAL:HG21	5:CE:148:LEU:HD21	1.72	0.71
46:p0:4:ILE:O	46:p0:8:LYS:HG3	1.90	0.71
47:A:12:U:H2'	47:A:13:C:C6	2.25	0.71
72:Z:55:VAL:HG22	72:Z:75:VAL:HG23	1.72	0.71
47:sR:346:G:H5'	59:c1:79:LYS:HG3	1.71	0.71
17:w:61:ALA:HA	17:w:70:PRO:HD2	1.72	0.71
1:AR:576:C:OP1	9:CI:241:LYS:NZ	2.22	0.71
47:A:927:C:H1'	62:P:125:SER:HB2	1.72	0.71
50:D:53:ILE:HG23	50:D:72:LEU:HD13	1.70	0.71
53:s5:183:ALA:HB2	53:s5:193:THR:HG21	1.71	0.71
75:d7:56:CYS:SG	75:d7:57:GLU:N	2.64	0.71
1:1:24:G:OP2	81:1:3404:OHX:N4	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:692:A:OP1	16:v:201:ARG:NH2	2.24	0.71
17:w:41:LEU:HD23	17:w:138:LEU:HD22	1.71	0.71
1:AR:425:G:O6	81:AR:3416:OHX:N6	2.23	0.71
1:AR:655:C:H2'	1:AR:656:A:C8	2.25	0.71
1:AR:1019:G:H22	1:AR:1033:U:H3	1.38	0.71
1:AR:3169:U:H2'	1:AR:3170:A:C8	2.24	0.71
26:CZ:73:MET:HE1	26:CZ:141:TYR:HE1	1.54	0.71
27:DA:77:LYS:HE2	40:DN:31:THR:HG21	1.72	0.71
52:F:126:VAL:HG13	52:F:156:VAL:HA	1.72	0.71
74:b:8:ASN:OD1	74:b:8:ASN:N	2.22	0.71
54:s6:180:THR:HG22	54:s6:183:ARG:HG3	1.72	0.71
13:s:92:ARG:HB3	13:s:172:LEU:HD22	1.72	0.71
1:AR:1819:U:O4	81:AR:3550:OHX:N3	2.23	0.71
1:AR:2259:A:OP2	81:AR:3448:OHX:N1	2.23	0.71
48:B:22:THR:CG2	48:B:169:SER:HB3	2.21	0.71
51:E:80:ALA:O	51:E:83:THR:OG1	2.07	0.71
58:L:16:PHE:HB2	58:L:76:LEU:HD12	1.72	0.71
47:sR:434:G:N7	81:sR:1938:OHX:N2	2.38	0.71
56:s8:36:THR:HG22	56:s8:57:ALA:O	1.91	0.71
21:CU:42:TRP:O	21:CU:46:GLN:HG3	1.90	0.71
47:A:767:U:N3	72:Z:64:PHE:HD2	1.85	0.71
48:B:67:ILE:HG22	48:B:119:ARG:NH2	2.05	0.71
50:D:68:ILE:HG22	50:D:72:LEU:HD11	1.72	0.71
62:P:31:THR:OG1	62:P:38:THR:HA	1.90	0.71
47:sR:1268:G:H1'	47:sR:1448:G:H5''	1.73	0.71
47:sR:1758:U:O4	81:sR:1903:OHX:N6	2.24	0.71
57:s9:44:ARG:HG2	57:s9:45:ILE:HD12	1.71	0.71
4:j:40:TYR:HA	4:j:90:ALA:O	1.91	0.71
1:AR:1934:G:N7	81:AR:3417:OHX:N4	2.39	0.71
7:CG:76:ALA:HB3	7:CG:109:THR:HG22	1.72	0.71
18:CR:111:LYS:HE2	18:CR:152:GLU:HB3	1.73	0.71
18:CR:125:GLN:HB2	18:CR:141:SER:HB2	1.73	0.71
35:DI:22:VAL:HG22	35:DI:30:LEU:HD22	1.73	0.71
47:sR:1591:C:H2'	47:sR:1592:A:C8	2.25	0.71
49:s1:35:PRO:HG2	49:s1:38:PHE:HE2	1.54	0.71
1:1:129:U:H2'	1:1:130:A:C8	2.26	0.71
10:p:61:GLN:HA	10:p:64:ILE:HG12	1.71	0.71
1:AR:1232:C:C5	1:AR:1261:G:H2'	2.25	0.71
81:AR:3412:OHX:N4	22:CV:13:TYR:O	2.24	0.71
6:CF:291:ASN:HA	6:CF:296:GLN:HE21	1.56	0.71
47:A:69:G:N2	47:A:82:U:O2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1201:G:N2	47:A:1600:A:H5''	2.05	0.71
47:A:1291:G:H5'	50:D:119:LYS:HE3	1.73	0.71
60:N:58:LEU:HD13	60:N:124:LYS:HA	1.73	0.71
74:b:79:ILE:HA	74:b:84:VAL:HG11	1.71	0.71
47:sR:542:A:H61	78:e0:28:LYS:HZ2	1.37	0.71
47:sR:753:A:H5''	52:s4:221:ARG:HG3	1.71	0.71
51:s3:167:PHE:HA	51:s3:190:ARG:HH11	1.56	0.71
61:c3:48:SER:O	61:c3:52:VAL:HG23	1.91	0.71
26:8:115:ARG:HD3	26:8:121:LYS:HE3	1.73	0.71
1:AR:978:G:O2'	1:AR:979:U:O2	2.09	0.71
7:m:184:ASP:OD1	7:m:187:THR:N	2.23	0.70
10:p:104:GLU:O	10:p:107:GLU:HG2	1.91	0.70
12:CL:84:ALA:O	12:CL:140:THR:OG1	2.09	0.70
37:DK:54:GLU:HB3	37:DK:90:MET:HE1	1.72	0.70
47:A:1015:U:OP1	81:A:2111:OHX:N1	2.24	0.70
47:A:1445:G:C5	79:g:91:ILE:HB	2.26	0.70
47:A:1500:C:OP1	67:U:122:ARG:NH1	2.19	0.70
56:J:61:GLU:HG3	56:J:62:THR:HG23	1.72	0.70
68:V:20:ILE:HB	68:V:22:ILE:HG12	1.73	0.70
47:sR:513:U:H2'	47:sR:514:G:C8	2.26	0.70
80:Rb:167:VAL:HG23	80:Rb:183:LEU:HB2	1.71	0.70
80:Rb:228:LYS:HG2	80:Rb:228:LYS:O	1.90	0.70
58:c0:8:ARG:HH12	58:c0:49:LEU:HD21	1.55	0.70
1:l:3139:A:OP1	5:k:274:SER:OG	2.09	0.70
15:u:135:LEU:HD11	17:w:178:VAL:HG12	1.72	0.70
1:AR:314:U:O4	81:AR:3667:OHX:N5	2.24	0.70
1:AR:3280:U:O2'	1:AR:3281:U:O5'	2.09	0.70
23:CW:89:LEU:HB3	23:CW:93:ILE:HD13	1.72	0.70
43:DQ:100:LYS:HD3	43:DQ:100:LYS:H	1.55	0.70
47:A:227:U:O2	47:A:834:G:N2	2.20	0.70
47:A:407:A:H2'	47:A:408:C:C6	2.26	0.70
47:A:1282:U:OP1	81:A:1958:OHX:N2	2.24	0.70
50:D:53:ILE:HD13	50:D:57:PHE:CE2	2.26	0.70
60:N:29:LYS:HA	60:N:32:LEU:CD2	2.21	0.70
65:S:51:ALA:O	65:S:55:THR:HG23	1.91	0.70
51:s3:210:GLU:OE2	65:c7:19:ARG:NH1	2.25	0.70
5:k:41:VAL:HG12	5:k:185:GLY:HA3	1.73	0.70
57:K:128:LEU:O	57:K:133:HIS:HB2	1.91	0.70
76:d:18:ARG:HD3	76:d:26:THR:HG22	1.72	0.70
80:h:4:ASN:O	80:h:4:ASN:ND2	2.23	0.70
47:sR:1066:C:H5''	49:s1:149:GLN:HE21	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s3:101:GLN:HA	51:s3:104:SER:HB3	1.73	0.70
52:s4:18:TRP:HE3	52:s4:20:LEU:HD11	1.55	0.70
1:1:1485:G:O6	81:1:3485[A]:OHX:N2	2.25	0.70
1:1:2924:U:O4	81:1:3517:OHX:N5	2.24	0.70
31:AD:32:LYS:O	31:AD:36:GLN:HG3	1.89	0.70
31:AD:86:ARG:NH1	44:AQ:44:LYS:HD3	2.07	0.70
1:AR:102:C:O2'	14:CN:62:THR:OG1	2.09	0.70
1:AR:408:A:OP1	81:AR:3601:OHX:N6	2.23	0.70
1:AR:3329:U:H5''	5:CE:308:MET:HE3	1.74	0.70
47:A:764:U:OP1	57:K:78:ARG:NH2	2.25	0.70
71:Y:70:LYS:HB3	71:Y:93:LEU:HD22	1.74	0.70
80:Rb:69:GLN:N	80:Rb:83:ALA:O	2.21	0.70
50:s2:186:LYS:HD3	50:s2:189:GLN:HE21	1.55	0.70
55:s7:55:LYS:HE3	55:s7:87:ASP:OD1	1.91	0.70
62:c4:117:ASP:OD1	62:c4:119:THR:HG23	1.91	0.70
65:c7:83:GLN:N	65:c7:83:GLN:OE1	2.23	0.70
1:1:3348:G:H1	1:1:3357:U:H3	1.38	0.70
37:AJ:67:LYS:HD2	37:AJ:67:LYS:H	1.57	0.70
14:CN:103:ASN:HB3	37:DK:20:MET:HE2	1.71	0.70
47:A:584:C:H1'	78:f:18:THR:HG21	1.73	0.70
47:A:1474:G:H2'	47:A:1475:A:H8	1.56	0.70
50:D:179:VAL:O	50:D:198:THR:HB	1.91	0.70
53:G:51:VAL:O	53:G:65:ARG:NH2	2.22	0.70
80:Rb:122:ILE:O	80:Rb:134:TRP:HB2	1.92	0.70
66:c8:108:LYS:NZ	66:c8:111:ASP:OD2	2.24	0.70
22:2:110:LYS:HD2	22:2:111:ALA:N	2.06	0.70
45:i:23:LYS:HD2	45:i:23:LYS:H	1.57	0.70
1:AR:1447:G:H3'	18:CR:67:ILE:HD11	1.74	0.70
1:AR:2828:G:OP1	12:CL:7:ARG:NH1	2.23	0.70
12:CL:174:THR:HG23	12:CL:176:LEU:H	1.56	0.70
46:p0:26:PHE:HB2	46:p0:87:VAL:HG13	1.73	0.70
47:A:1445:G:N2	79:g:88:PRO:O	2.24	0.70
48:B:140:ASN:HD21	69:W:29:HIS:HA	1.55	0.70
62:P:25:ASP:OD1	62:P:26:THR:N	2.23	0.70
80:Rb:123:ILE:HA	80:Rb:134:TRP:HD1	1.56	0.70
53:s5:163:SER:HB2	76:d8:48:VAL:HG13	1.74	0.70
53:s5:217:LEU:N	53:s5:219:ARG:NH1	2.38	0.70
66:c8:33:THR:HA	66:c8:38:VAL:HG23	1.74	0.70
1:1:2261:G:O6	81:1:3455:OHX:N1	2.24	0.70
1:1:2697:A:H2'	1:1:2698:G:C8	2.27	0.70
11:q:41:ILE:HD11	11:q:67:ALA:HB1	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:w:12:LYS:O	21:0:167:ARG:NH2	2.24	0.70
34:AG:85:PHE:O	81:AG:202:OHX:N1	2.25	0.70
47:A:45:U:O2'	47:A:46:A:H2'	1.92	0.70
52:F:141:THR:HG1	52:F:143:ASP:CG	2.00	0.70
53:G:62:VAL:HG12	53:G:89:ILE:HG12	1.74	0.70
58:L:40:LEU:H	58:L:40:LEU:HD12	1.57	0.70
63:Q:22:LEU:HD12	63:Q:109:PRO:HG3	1.73	0.70
65:S:105:GLN:N	65:S:105:GLN:OE1	2.23	0.70
53:s5:34:GLN:HG3	64:c6:57:LEU:HD22	1.74	0.70
65:c7:71:PHE:HD1	65:c7:73:LEU:H	1.37	0.70
4:j:50:HIS:HB2	44:AQ:51:ALA:HB1	1.73	0.70
1:AR:1840:U:OP2	81:AR:3539:OHX:N1	2.25	0.70
8:CH:97:ASN:O	8:CH:97:ASN:ND2	2.24	0.70
47:A:293:U:OP2	81:A:2100:OHX:N2	2.25	0.70
57:K:93:LEU:HA	57:K:96:VAL:HG13	1.74	0.70
74:b:79:ILE:HG12	74:b:84:VAL:HG21	1.73	0.70
80:h:153:GLN:O	80:h:172:ALA:CB	2.40	0.70
47:sR:248:U:OP1	81:sR:1977:OHX:N3	2.25	0.70
7:m:234:ASP:OD1	7:m:234:ASP:N	2.21	0.70
8:n:40:LEU:HB3	8:n:84:VAL:CG2	2.21	0.70
8:CH:31:ARG:NH1	34:DH:107:ILE:O	2.25	0.70
8:CH:157:GLN:N	8:CH:157:GLN:OE1	2.25	0.70
49:C:82:ARG:HD2	49:C:82:ARG:H	1.57	0.70
72:Z:132:ARG:HB2	72:Z:135:ASP:HB3	1.73	0.70
73:a:93:SER:HB3	73:a:100:ILE:H	1.55	0.70
80:h:132:LYS:HG2	80:h:143:THR:HG22	1.73	0.70
80:h:278:PHE:CE2	80:h:287:PRO:HG2	2.27	0.70
47:sR:1058:U:H4'	47:sR:1059:U:OP1	1.91	0.70
48:s0:52:LYS:HB3	69:d1:82:VAL:HG12	1.73	0.70
57:s9:109:LEU:CD2	57:s9:129:ILE:HG12	2.22	0.70
16:v:9:GLU:HG2	37:AJ:44:VAL:HG11	1.73	0.70
1:AR:964:G:OP1	81:AR:3508:OHX:N1	2.25	0.70
1:AR:1840:U:OP2	81:AR:3539:OHX:N4	2.24	0.70
7:CG:107:ARG:HH22	7:CG:120:LYS:HA	1.57	0.70
47:A:161:U:OP2	54:H:87:ARG:NH2	2.25	0.70
47:A:1041:G:H2'	47:A:1042:G:C8	2.27	0.70
47:A:1443:U:O4	81:A:2131:OHX:N4	2.25	0.70
67:U:86:ARG:NH1	67:U:90:PRO:O	2.24	0.70
47:sR:407:A:H2'	47:sR:408:C:H6	1.57	0.70
47:sR:1405:G:H2'	47:sR:1406:A:C8	2.27	0.70
48:s0:89:PHE:O	48:s0:93:THR:OG1	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:48:VAL:HG21	49:s1:61:LEU:HB3	1.73	0.70
53:s5:217:LEU:H	53:s5:219:ARG:HH11	1.40	0.70
55:s7:150:GLN:HB2	55:s7:181:ILE:HG22	1.74	0.70
67:c9:9:VAL:HG11	67:c9:14:PHE:CD2	2.27	0.70
68:d0:28:SER:OG	68:d0:111:GLY:O	2.08	0.70
1:AR:621:A:O2'	1:AR:623:U:O4	2.08	0.69
11:CK:129:ARG:H	11:CK:157:ASN:HD21	1.39	0.69
47:A:591:A:H2'	47:A:592:A:H8	1.56	0.69
49:C:86:LEU:HD23	49:C:98:THR:HG23	1.73	0.69
63:Q:110:GLU:OE2	63:Q:110:GLU:N	2.21	0.69
66:T:114:GLU:O	66:T:118:LYS:HG3	1.92	0.69
69:W:41:GLU:N	69:W:41:GLU:OE2	2.25	0.69
1:1:1231:A:OP2	81:1:3565:OHX:N6	2.24	0.69
1:1:1674:G:N7	81:1:4101:OHX:N6	2.40	0.69
1:1:2248:C:OP2	81:1:4090:OHX:N4	2.25	0.69
29:AB:21:ARG:O	29:AB:24:LYS:NZ	2.24	0.69
37:AJ:34:SER:OG	37:AJ:37:THR:OG1	1.98	0.69
45:i:160:ARG:O	45:i:164:ALA:HB2	1.91	0.69
1:AR:668:G:OP1	81:AR:3633:OHX:N1	2.24	0.69
13:CM:148:VAL:HG12	13:CM:152:HIS:HB3	1.74	0.69
54:H:32:ILE:HD11	54:H:65:GLN:HA	1.73	0.69
47:sR:654:C:H2'	47:sR:655:G:H8	1.57	0.69
55:s7:35:LYS:HA	55:s7:38:LEU:HB2	1.72	0.69
66:c8:27:LYS:HA	66:c8:57:ARG:HB3	1.75	0.69
1:1:626:U:O4	81:1:3501:OHX:N3	2.25	0.69
1:1:664:U:H2'	1:1:665:A:C8	2.28	0.69
1:1:2771:U:O2'	1:1:2772:C:H4'	1.91	0.69
9:o:25:GLN:HG3	9:o:29:GLU:H	1.57	0.69
27:9:58:VAL:HG23	27:9:64:LYS:HA	1.73	0.69
1:AR:1194:G:OP1	81:AR:3514:OHX:N6	2.25	0.69
10:CJ:128:LYS:HD2	10:CJ:129:PRO:CD	2.21	0.69
47:A:1225:U:H2'	47:A:1226:A:O4'	1.92	0.69
53:G:163:SER:O	53:G:167:ARG:HG3	1.92	0.69
68:V:24:ILE:HD13	68:V:116:VAL:HB	1.73	0.69
83:1:4144:SPD:H41	29:AB:38:GLN:HE22	1.57	0.69
2:3:49:G:N7	7:m:58:LYS:HG3	2.08	0.69
14:CN:6:ASN:HB2	29:DC:48:TYR:CG	2.27	0.69
19:CS:111:ARG:O	19:CS:115:VAL:HG12	1.92	0.69
36:DJ:64:GLU:CG	36:DJ:67:ARG:HH21	2.05	0.69
55:I:122:HIS:HD2	55:I:179:LYS:HE3	1.56	0.69
68:V:70:THR:OG1	68:V:72:ASN:OD1	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1316:G:HO2'	47:sR:1401:A:HO2'	1.34	0.69
47:sR:1318:G:N7	81:sR:2013:OHX:N5	2.40	0.69
1:1:535:G:O6	81:1:3547:OHX:N3	2.25	0.69
1:1:673:U:OP1	19:y:21:SER:OG	2.10	0.69
1:1:1564:U:H2'	1:1:1565:G:C8	2.28	0.69
1:AR:1277:C:H2'	1:AR:1278:A:C8	2.28	0.69
1:AR:1734:G:N7	81:AR:3469:OHX:N2	2.40	0.69
1:AR:1942:U:OP2	20:CT:74:ARG:NH1	2.25	0.69
1:AR:3295:A:H2'	1:AR:3296:A:C8	2.28	0.69
3:AT:63:G:O2'	36:DJ:49:LYS:HE3	1.93	0.69
15:CO:121:MET:HE2	15:CO:125:LYS:HE3	1.74	0.69
47:A:1073:G:H4'	61:O:10:GLY:HA2	1.73	0.69
80:Rb:42:LEU:HD11	80:Rb:82:SER:HB3	1.74	0.69
50:s2:111:VAL:O	50:s2:137:ILE:N	2.23	0.69
56:s8:192:TYR:O	56:s8:196:LEU:HD12	1.92	0.69
1:1:1235:U:O4	1:1:1263:A:N6	2.26	0.69
16:v:149:ASN:OD1	81:v:301:OHX:N6	2.26	0.69
19:y:57:ILE:H	19:y:57:ILE:HD12	1.56	0.69
1:AR:3311:C:OP1	81:AR:3684:OHX:N1	2.26	0.69
53:G:94:THR:HG22	53:G:114:ILE:HD13	1.75	0.69
69:W:16:LYS:NZ	69:W:21:ASN:HD22	1.91	0.69
47:sR:1650:U:H2'	47:sR:1651:A:C8	2.27	0.69
66:c8:16:ARG:HG3	66:c8:20:THR:O	1.92	0.69
72:d4:37:LYS:HA	72:d4:40:LEU:HD12	1.74	0.69
72:d4:106:GLN:O	72:d4:110:GLN:HG3	1.92	0.69
73:d5:84:GLU:HB2	73:d5:89:ILE:HD11	1.74	0.69
1:1:745:C:H5''	19:y:145:ASN:HD22	1.56	0.69
23:5:34:ALA:O	23:5:38:ILE:HG13	1.93	0.69
1:AR:1696:A:H2'	1:AR:1697:A:C8	2.28	0.69
2:AS:64:A:H5'	2:AS:65:G:H5''	1.75	0.69
7:CG:58:LYS:HD3	7:CG:93:THR:HG21	1.73	0.69
47:A:520:A:H2'	47:A:521:A:C8	2.28	0.69
47:A:1291:G:N2	47:A:1324:G:H22	1.89	0.69
47:A:1606:C:H2'	47:A:1607:G:C8	2.28	0.69
59:M:56:LYS:NZ	86:M:201:HOH:O	2.26	0.69
59:M:108:PRO:HG2	59:M:134:THR:HB	1.74	0.69
47:sR:488:G:H21	47:sR:499:U:H3	1.41	0.69
54:s6:68:LEU:HB3	54:s6:69:LEU:HB3	1.75	0.69
1:1:72:C:C4'	14:t:63:VAL:HG12	2.23	0.69
1:1:275:U:O4	81:1:4113:OHX:N5	2.25	0.69
1:1:1095:U:O2	22:2:128:LEU:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:20:LEU:HD11	6:l:252:GLU:HG3	1.75	0.69
38:AK:12:HIS:O	38:AK:13:ASN:ND2	2.24	0.69
45:i:117:LEU:HA	50:D:121:VAL:HG11	1.75	0.69
1:AR:90:C:OP1	29:DC:59:ARG:NH1	2.26	0.69
1:AR:742:G:N7	81:AR:3503:OHX:N6	2.41	0.69
1:AR:2400:G:O2'	1:AR:2401:A:OP1	2.11	0.69
1:AR:2585:G:N7	10:CJ:47:SER:OG	2.26	0.69
1:AR:2667:A:O2'	1:AR:2691:A:OP1	2.09	0.69
7:CG:19:PRO:HG2	7:CG:24:ARG:HG2	1.74	0.69
38:DL:62:GLY:O	81:DL:102:OHX:N3	2.26	0.69
39:DM:8:ILE:O	39:DM:12:LEU:HD22	1.93	0.69
47:A:1318:G:OP2	65:S:67:ARG:NH1	2.25	0.69
47:A:1795:U:H4'	74:b:84:VAL:HG23	1.73	0.69
48:B:22:THR:CG2	48:B:169:SER:CB	2.66	0.69
49:C:57:ALA:HB1	49:C:61:LEU:HD21	1.73	0.69
50:D:42:GLY:HA2	50:D:68:ILE:HD11	1.73	0.69
53:G:29:ILE:HD11	53:G:34:GLN:HG3	1.74	0.69
53:G:91:GLU:O	53:G:94:THR:OG1	2.08	0.69
71:Y:95:PHE:CE2	71:Y:135:LEU:HB3	2.27	0.69
73:a:44:GLN:HG2	73:a:45:GLU:N	2.08	0.69
80:h:33:LEU:O	80:h:44:SER:HA	1.93	0.69
47:sR:187:G:O2'	47:sR:198:A:N6	2.26	0.69
47:sR:1634:C:O2	81:sR:1986:OHX:N5	2.26	0.69
53:s5:216:GLU:CA	53:s5:219:ARG:HD3	2.22	0.69
54:s6:163:THR:HA	54:s6:168:THR:HG22	1.74	0.69
73:d5:61:SER:H	73:d5:64:VAL:HG22	1.58	0.69
1:1:76:G:O2'	14:t:100:ARG:NH1	2.26	0.69
1:1:824:C:H5''	4:j:21:ARG:HD3	1.72	0.69
1:1:1887:A:OP2	81:1:4093:OHX:N3	2.25	0.69
1:1:2615:G:H2'	1:1:2616:C:H6	1.57	0.69
1:AR:1603:A:N6	26:CZ:71:THR:HG21	2.06	0.69
7:CG:261:THR:O	7:CG:264:GLN:NE2	2.25	0.69
47:A:73:U:O2'	47:A:74:U:O5'	2.10	0.69
67:U:116:ILE:HA	67:U:122:ARG:HG2	1.75	0.69
70:X:24:GLN:NE2	75:c:5:GLN:H	1.89	0.69
47:sR:1491:U:H4'	47:sR:1492:A:H5''	1.75	0.69
47:sR:1555:A:OP2	63:c5:47:ARG:NH2	2.25	0.69
81:sR:2001:OHX:N5	59:c1:18:HIS:O	2.25	0.69
74:d6:49:ALA:HB1	74:d6:52:ASP:HB2	1.75	0.69
1:1:3111:U:OP2	81:1:3419:OHX:N2	2.26	0.69
7:m:105:ILE:O	7:m:109:THR:HG23	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:p:206:GLU:N	10:p:206:GLU:OE1	2.26	0.69
1:AR:2537:U:H4'	49:s1:229:MET:HB2	1.74	0.69
1:AR:3355:U:H3'	1:AR:3356:G:H5''	1.75	0.69
47:A:817:A:H1'	55:I:110:GLN:NE2	2.07	0.69
49:C:32:ILE:HG21	49:C:98:THR:HG22	1.75	0.69
47:sR:939:A:H2'	47:sR:940:A:C8	2.28	0.69
66:c8:28:ILE:HG13	66:c8:57:ARG:HA	1.75	0.69
1:1:1064:A:H4'	1:1:1065:A:O5'	1.92	0.68
12:r:36:LEU:HD21	12:r:69:ARG:HH11	1.58	0.68
1:AR:2535:A:H2'	1:AR:2536:A:H5'	1.74	0.68
47:A:811:A:C2	47:A:858:G:H1'	2.27	0.68
49:C:24:PHE:HD1	62:P:74:VAL:HG23	1.57	0.68
53:G:29:ILE:CD1	53:G:34:GLN:HG3	2.22	0.68
60:N:29:LYS:HA	60:N:32:LEU:HD21	1.75	0.68
47:sR:1537:C:O2'	47:sR:1540:G:O6	2.11	0.68
55:s7:6:ALA:O	55:s7:9:LEU:HD23	1.93	0.68
1:1:276:U:O2	16:v:93:LYS:HE2	1.94	0.68
1:AR:2263:C:OP1	81:AR:3456:OHX:N1	2.26	0.68
6:CF:181:VAL:O	6:CF:182:LEU:HG	1.93	0.68
12:CL:52:LEU:HD12	12:CL:165:ILE:HG22	1.73	0.68
47:A:393:C:OP2	56:J:2:GLY:N	2.26	0.68
47:A:482:U:H2'	47:A:483:A:C8	2.28	0.68
47:A:536:C:OP2	57:K:174:ARG:NH2	2.26	0.68
63:Q:33:PHE:CD2	63:Q:87:PRO:HD3	2.27	0.68
63:Q:59:LYS:HA	63:Q:59:LYS:HE2	1.76	0.68
76:d:42:ARG:NH1	76:d:58:GLU:OE2	2.26	0.68
80:h:114:ASP:OD1	80:h:115:ILE:N	2.25	0.68
47:sR:158:U:O2'	47:sR:160:C:OP2	2.10	0.68
9:o:160:ARG:HB2	9:o:203:TRP:CE3	2.28	0.68
1:AR:550:A:O2'	1:AR:551:A:O5'	2.08	0.68
5:CE:18:PRO:HG2	5:CE:20:LYS:HD2	1.75	0.68
47:A:899:G:H4'	62:P:46:MET:HE1	1.75	0.68
51:E:42:THR:OG1	51:E:44:THR:OG1	2.11	0.68
63:Q:85:ILE:HG22	63:Q:112:LEU:HD23	1.74	0.68
47:sR:1066:C:OP1	49:s1:151:LYS:NZ	2.25	0.68
48:s0:84:ARG:HA	48:s0:87:LEU:HD23	1.75	0.68
53:s5:136:ALA:HA	53:s5:202:ALA:HA	1.75	0.68
53:s5:211:ILE:HA	53:s5:214:LYS:HB3	1.73	0.68
1:1:655:C:H2'	1:1:656:A:C8	2.29	0.68
1:1:2960:C:H2'	1:1:2961:G:H8	1.58	0.68
8:n:175:LYS:O	15:u:117:ARG:NH2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:152:LYS:HG2	5:CE:192:VAL:HG11	1.74	0.68
27:DA:73:VAL:HA	27:DA:80:VAL:HG23	1.74	0.68
74:b:23:CYS:HB2	74:b:74:CYS:HB3	1.76	0.68
58:c0:14:TYR:OH	58:c0:34:GLU:OE1	2.06	0.68
6:l:265:GLU:OE2	6:l:265:GLU:N	2.26	0.68
1:AR:297:G:OP2	1:AR:297:G:N2	2.23	0.68
47:A:405:C:OP1	81:A:1910:OHX:N4	2.27	0.68
49:C:217:LEU:CD1	49:C:219:LYS:H	2.06	0.68
67:U:101:ASN:HA	67:U:104:VAL:HG12	1.73	0.68
47:sR:188:A:H2'	47:sR:189:C:O4'	1.92	0.68
47:sR:486:G:N2	47:sR:487:G:N7	2.41	0.68
47:sR:1720:G:O6	81:sR:1950[A]:OHX:N3	2.27	0.68
52:s4:151:ASP:HB3	52:s4:154:ILE:HG13	1.74	0.68
63:c5:18:ARG:NH1	66:c8:90:ASN:O	2.27	0.68
13:s:21:ILE:HD11	13:s:37:LEU:HD21	1.75	0.68
27:9:112:ASP:O	27:9:116:LYS:HG2	1.93	0.68
28:AA:38:PHE:O	28:AA:40:HIS:ND1	2.21	0.68
1:AR:1639:C:OP2	35:DI:74:ARG:NH2	2.27	0.68
81:AR:3406:OHX:N4	3:AT:2:A:OP2	2.27	0.68
8:CH:146:ILE:HG22	8:CH:150:LYS:HD2	1.75	0.68
16:CP:45:PRO:O	16:CP:49:ARG:HG2	1.92	0.68
47:sR:159:U:O4	72:d4:116:LYS:HE2	1.94	0.68
47:sR:1207:C:H42	47:sR:1456:C:H5	1.40	0.68
55:s7:10:SER:HB2	55:s7:44:LYS:HA	1.75	0.68
66:c8:25:ASN:O	73:d5:40:VAL:HG21	1.94	0.68
1:l:72:C:H4'	14:t:63:VAL:HG12	1.75	0.68
1:l:419:G:N7	81:l:3406:OHX:N6	2.41	0.68
7:m:276:LYS:HD2	7:m:276:LYS:N	2.08	0.68
1:AR:65:A:H4'	1:AR:66:A:O5'	1.92	0.68
1:AR:502:U:OP1	81:AR:4179:OHX:N2	2.27	0.68
1:AR:1024:G:N2	1:AR:1027:A:OP2	2.26	0.68
1:AR:2699:G:OP2	81:AR:3432:OHX:N2	2.27	0.68
1:AR:3192:U:O4	81:AR:3636:OHX:N6	2.27	0.68
27:DA:100:HIS:ND1	27:DA:102:SER:HB3	2.09	0.68
45:sM:51:ARG:CZ	45:sM:52:PRO:HD2	2.24	0.68
47:A:894:U:H2'	47:A:895:G:H8	1.59	0.68
47:A:990:C:OP2	81:A:1942:OHX:N4	2.27	0.68
47:A:1098:U:P	50:D:168:ARG:HH21	2.16	0.68
49:C:126:THR:HA	49:C:135:LEU:O	1.94	0.68
50:D:103:VAL:HG23	50:D:190:LEU:HD12	1.76	0.68
58:L:74:GLU:HA	58:L:77:ARG:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:b:10:ARG:HH22	74:b:36:ILE:N	1.92	0.68
57:s9:96:VAL:O	57:s9:99:LEU:HD12	1.94	0.68
1:AR:1953:G:H3'	1:AR:1954:G:H5''	1.75	0.68
47:A:711:U:H1'	47:A:712:G:H8	1.57	0.68
49:C:197:ILE:O	49:C:201:THR:HG23	1.94	0.68
53:G:121:ILE:CD1	53:G:129:PRO:HB3	2.24	0.68
53:G:121:ILE:HG21	53:G:198:LEU:HD11	1.75	0.68
60:N:134:SER:HA	60:N:137:MET:HE1	1.76	0.68
61:O:151:ASN:OD1	81:O:201:OHX:N3	2.25	0.68
72:Z:129:VAL:HG13	72:Z:132:ARG:HH12	1.59	0.68
80:h:69:GLN:HE22	80:h:112:SER:HA	1.58	0.68
47:sR:250:C:H2'	47:sR:251:A:H8	1.59	0.68
19:y:36:LEU:O	19:y:40:THR:OG1	2.05	0.68
23:5:51:GLY:O	23:5:52:ASN:ND2	2.26	0.68
1:AR:437:G:N1	1:AR:621:A:N1	2.41	0.68
21:CU:2:ALA:HB3	21:CU:32:SER:HB3	1.75	0.68
23:CW:22:PRO:HA	23:CW:107:PHE:CZ	2.28	0.68
47:A:1535:U:O2'	47:A:1536:G:N3	2.26	0.68
47:A:1591:C:H2'	47:A:1592:A:C8	2.29	0.68
53:G:58:LEU:HD21	53:G:167:ARG:HD3	1.76	0.68
56:s8:138:ASN:O	56:s8:141:ARG:NE	2.27	0.68
66:c8:25:ASN:HB3	73:d5:40:VAL:HG11	1.76	0.68
66:c8:45:LEU:HA	66:c8:48:LYS:CG	2.18	0.68
1:1:1010:G:N2	12:r:193:ASP:OD1	2.26	0.68
1:1:1552:G:OP2	81:1:3596:OHX:N3	2.27	0.68
1:1:2676:A:N1	13:s:22:SER:OG	2.27	0.68
1:AR:3252:G:N7	81:AR:3687[A]:OHX:N2	2.42	0.68
11:CK:7:GLU:OE2	11:CK:54:LYS:NZ	2.21	0.68
20:CT:101:VAL:HG12	20:CT:104:ARG:HH21	1.59	0.68
47:A:585:A:H2'	47:A:586:G:C8	2.29	0.68
56:J:138:ASN:HB3	56:J:141:ARG:NH2	2.07	0.68
47:sR:159:U:O2'	54:s6:87:ARG:NH1	2.27	0.68
51:s3:76:ARG:HG3	51:s3:77:PHE:CD1	2.29	0.68
1:1:2406:C:H2'	1:1:2407:C:C6	2.29	0.67
3:4:46:G:OP2	40:AM:15:LYS:NZ	2.20	0.67
28:AA:26:VAL:HG21	28:AA:96:VAL:CG1	2.24	0.67
1:AR:1235:U:H4'	1:AR:1236:G:H5'	1.76	0.67
1:AR:1790:G:O6	81:AR:3671:OHX:N4	2.28	0.67
1:AR:3019:U:O4	81:AR:3485:OHX:N4	2.28	0.67
4:CD:65:ASP:HB2	4:CD:70:ARG:HG2	1.76	0.67
6:CF:154:THR:HG22	6:CF:252:GLU:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:I:39:ARG:HD3	55:I:40:PRO:HD3	1.75	0.67
57:K:134:ILE:HG23	57:K:158:PHE:CE1	2.27	0.67
58:L:12:HIS:HD1	58:L:79:TYR:HE2	1.42	0.67
72:Z:5:VAL:HG13	72:Z:29:HIS:HB3	1.74	0.67
47:sR:1017:U:H2'	47:sR:1018:U:C6	2.29	0.67
63:c5:86:VAL:H	63:c5:89:MET:HE2	1.59	0.67
67:c9:73:VAL:O	67:c9:77:ASN:ND2	2.26	0.67
78:e0:50:VAL:CG1	78:e0:52:GLY:H	2.06	0.67
1:1:662:U:H2'	1:1:663:C:C6	2.29	0.67
1:1:2438:A:H2'	1:1:2439:A:H8	1.59	0.67
3:4:74:U:O2	81:4:207:OHX:N3	2.27	0.67
5:k:277:SER:HB3	5:k:280:HIS:NE2	2.09	0.67
7:m:132:THR:HG21	7:m:170:GLY:HA2	1.75	0.67
14:t:157:ARG:HG2	14:t:158:ALA:H	1.59	0.67
21:0:77:VAL:HG11	21:0:106:LEU:CD1	2.24	0.67
1:AR:785:G:N7	29:DC:77:LYS:NZ	2.39	0.67
1:AR:2843:U:OP1	81:AR:4199:OHX:N6	2.28	0.67
15:CO:16:GLU:HB3	21:CU:149:LYS:HB3	1.75	0.67
47:A:924:A:H2'	47:A:925:G:C8	2.29	0.67
50:D:35:TRP:HZ2	50:D:68:ILE:HD12	1.60	0.67
49:s1:164:ILE:O	49:s1:168:ILE:HG12	1.94	0.67
50:s2:68:ILE:O	50:s2:72:LEU:HD12	1.94	0.67
53:s5:139:ASN:C	53:s5:214:LYS:HZ3	2.01	0.67
1:1:1027:A:H2'	1:1:1029:G:H5''	1.77	0.67
27:9:58:VAL:HG12	27:9:104:LEU:CD2	2.25	0.67
1:AR:2836:C:H5	1:AR:2852:C:H42	1.42	0.67
32:DF:82:GLU:HG2	32:DF:82:GLU:O	1.93	0.67
48:B:53:THR:HG22	48:B:161:PRO:HG2	1.75	0.67
53:s5:217:LEU:H	53:s5:219:ARG:NH1	1.91	0.67
75:d7:40:CYS:SG	75:d7:41:LEU:N	2.67	0.67
20:z:28:GLU:OE1	81:z:203:OHX:N2	2.27	0.67
39:AL:7:ASP:OD1	39:AL:10:GLN:N	2.19	0.67
1:AR:911:C:H42	4:CD:3:ARG:HD3	1.59	0.67
1:AR:1538:G:OP2	81:AR:3506:OHX:N4	2.27	0.67
14:CN:176:GLU:HG2	37:DK:11:LEU:CD1	2.24	0.67
47:A:264:G:N7	81:A:2107:OHX:N2	2.42	0.67
47:A:768:C:H1'	57:K:143:ILE:HG21	1.75	0.67
47:A:1533:C:H6	73:a:77:ARG:HH21	1.42	0.67
51:E:175:VAL:HG13	51:E:182:LEU:HB2	1.76	0.67
57:K:129:ILE:CG1	57:K:134:ILE:HD11	2.25	0.67
80:h:101:GLN:NE2	80:h:137:LYS:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:826:U:H2'	47:sR:827:C:C6	2.29	0.67
80:Rb:214:ALA:O	80:Rb:240:VAL:HG13	1.95	0.67
49:s1:37:THR:HG21	49:s1:185:THR:HG23	1.75	0.67
49:s1:131:ASP:OD2	49:s1:180:THR:OG1	2.12	0.67
73:d5:65:LEU:HB3	73:d5:71:ILE:CD1	2.25	0.67
1:1:2678:A:C8	45:i:47:ALA:HB2	2.29	0.67
1:AR:1794:G:H4'	4:CD:191:LEU:HD13	1.76	0.67
1:AR:2311:G:OP2	81:AR:3478[A]:OHX:N5	2.26	0.67
3:AT:81:U:O2'	3:AT:82:U:OP2	2.11	0.67
47:A:772:G:H21	47:A:774:A:H1'	1.58	0.67
47:A:1294:G:O2'	48:B:108:THR:OG1	2.13	0.67
47:A:1584:G:H5''	64:R:122:ARG:HB3	1.76	0.67
49:C:168:ILE:O	49:C:172:LEU:HD22	1.94	0.67
52:F:61:VAL:O	52:F:65:LEU:HD12	1.94	0.67
71:Y:103:LEU:HD13	71:Y:126:LYS:HB2	1.75	0.67
47:sR:489:C:H5	47:sR:498:G:H22	1.42	0.67
47:sR:1213:G:O6	81:sR:1929:OHX:N3	2.27	0.67
80:Rb:178:VAL:HB	80:Rb:192:PHE:HB2	1.77	0.67
80:Rb:251:TRP:CD1	80:Rb:264:SER:HG	2.12	0.67
54:s6:70:PRO:HB3	54:s6:101:ILE:HB	1.75	0.67
1:1:1278:A:O2'	1:1:1279:C:O5'	2.12	0.67
1:1:1298:C:OP2	81:1:3477:OHX:N2	2.28	0.67
1:1:1789:G:O6	81:1:4129:OHX:N3	2.27	0.67
41:AN:99:CYS:HB2	41:AN:114:LYS:HE2	1.75	0.67
1:AR:3068:U:OP2	20:CT:62:ARG:NH2	2.28	0.67
28:DB:115:LYS:NZ	28:DB:119:GLU:OE2	2.26	0.67
47:A:734:A:H5''	47:A:735:C:OP1	1.93	0.67
61:O:13:SER:HB3	75:c:21:LEU:HD11	1.76	0.67
47:sR:340:U:H2'	47:sR:341:A:C8	2.29	0.67
47:sR:1153:G:OP1	74:d6:82:ARG:NH2	2.27	0.67
47:sR:1518:C:OP2	81:sR:1995:OHX:N4	2.28	0.67
53:s5:80:LYS:CD	53:s5:81:ARG:H	2.07	0.67
4:j:20:THR:HA	4:j:23:ARG:HD2	1.75	0.67
11:q:92:TYR:HB3	11:q:99:ILE:HD11	1.76	0.67
1:AR:837:A:OP2	44:DR:4:ARG:NH1	2.27	0.67
1:AR:1667:A:H2'	1:AR:1668:G:C8	2.29	0.67
1:AR:2828:G:P	12:CL:7:ARG:HH12	2.17	0.67
4:CD:48:ILE:HD11	44:DR:63:THR:HG22	1.77	0.67
25:CY:32:GLN:OE1	25:CY:33:ASN:ND2	2.26	0.67
28:DB:12:VAL:HG22	28:DB:81:LEU:HB3	1.76	0.67
28:DB:104:PRO:HA	28:DB:107:ARG:CG	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:197:A:H2'	47:A:198:A:H8	1.59	0.67
47:A:209:U:H2'	47:A:210:A:H8	1.60	0.67
49:C:183:GLN:O	49:C:187:LYS:HG3	1.94	0.67
54:H:3:LEU:HD23	54:H:109:LEU:HB3	1.74	0.67
70:X:77:PRO:HG2	70:X:79:PHE:CE1	2.30	0.67
75:c:23:THR:OG1	75:c:25:VAL:O	2.12	0.67
80:h:201:THR:HB	80:h:242:SER:HA	1.74	0.67
53:s5:121:ILE:HG22	53:s5:199:ILE:HD11	1.77	0.67
56:s8:64:ASN:HD21	56:s8:73:SER:HB3	1.60	0.67
63:c5:9:LYS:C	63:c5:10:ARG:HD3	2.18	0.67
67:c9:57:ARG:O	67:c9:61:VAL:HG23	1.94	0.67
1:1:1094:U:O2'	1:1:1095:U:O5'	2.11	0.67
1:1:1863:G:O6	81:1:3468:OHX:N4	2.28	0.67
23:5:12:ALA:HA	23:5:67:SER:O	1.93	0.67
28:AA:90:GLU:HA	28:AA:93:LYS:HE3	1.77	0.67
1:AR:2534:G:N2	1:AR:2535:A:H62	1.92	0.67
7:CG:111:GLN:HA	7:CG:116:ASP:HB3	1.76	0.67
44:DR:87:ARG:O	44:DR:91:GLU:HG2	1.95	0.67
49:C:143:THR:O	49:C:208:GLN:NE2	2.25	0.67
53:G:114:ILE:HA	53:G:117:THR:OG1	1.95	0.67
63:Q:29:SER:HB2	63:Q:32:ASP:HB2	1.75	0.67
47:sR:591:A:H2'	47:sR:592:A:C8	2.30	0.67
47:sR:833:U:O4	81:sR:1957:OHX:N4	2.27	0.67
1:1:660:A:H5''	6:l:100:PHE:CD2	2.29	0.67
1:1:994:G:O6	81:1:3566:OHX:N2	2.28	0.67
1:1:3128:G:OP2	81:1:3612:OHX:N2	2.28	0.67
4:j:200:ARG:NH2	4:j:217:GLN:OE1	2.28	0.67
26:8:46:TYR:HD2	36:AI:75:TYR:HB3	1.60	0.67
45:i:84:LYS:HZ2	45:i:86:ASN:HB2	1.59	0.67
1:AR:764:U:H3'	1:AR:765:C:H5''	1.77	0.67
1:AR:1381:A:OP1	6:CF:197:ARG:NH1	2.26	0.67
1:AR:2108:C:H1'	1:AR:3344:A:C8	2.28	0.67
45:sM:58:GLU:HA	45:sM:61:ILE:HG22	1.76	0.67
47:A:67:A:O2'	47:A:69:G:OP1	2.12	0.67
48:B:53:THR:O	48:B:56:LYS:HB2	1.94	0.67
73:a:43:ASP:OD2	73:a:46:LYS:HD3	1.95	0.67
80:h:302:PHE:HA	80:h:312:VAL:HG12	1.74	0.67
47:sR:542:A:H61	78:e0:28:LYS:NZ	1.93	0.67
47:sR:817:A:H1'	55:s7:110:GLN:HE22	1.60	0.67
47:sR:1799:U:O2'	49:s1:152:ARG:NH1	2.26	0.67
80:Rb:229:LYS:HA	51:s3:222:VAL:HG11	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s3:70:THR:O	51:s3:73:VAL:HG12	1.94	0.67
53:s5:63:GLN:OE1	53:s5:66:GLN:N	2.26	0.67
66:c8:99:HIS:O	66:c8:101:LEU:HD23	1.95	0.67
67:c9:105:LEU:HG	67:c9:122:ARG:HG3	1.77	0.67
1:1:864:G:OP2	81:1:3413:OHX:N2	2.28	0.67
1:1:1226:G:H2'	1:1:1227:C:C6	2.30	0.67
1:1:2213:A:H2'	1:1:2214:A:H8	1.59	0.67
1:1:2438:A:H2'	1:1:2439:A:C8	2.30	0.67
7:m:258:LYS:HD2	7:m:259:LYS:N	2.09	0.67
1:AR:1251:A:H2'	1:AR:1252:A:H8	1.59	0.67
29:DC:138:ILE:HD11	29:DC:145:VAL:HG12	1.77	0.67
47:A:52:U:H2'	47:A:53:G:H8	1.59	0.67
47:A:590:C:H5''	78:f:43:ARG:HH12	1.60	0.67
47:A:741:C:O2	55:I:107:ARG:NH2	2.27	0.67
47:A:811:A:N7	55:I:111:LYS:HB2	2.10	0.67
50:D:179:VAL:O	50:D:198:THR:CB	2.43	0.67
47:sR:1600:A:H4'	47:sR:1601:G:OP1	1.92	0.67
55:s7:44:LYS:HZ1	55:s7:63:PRO:HD3	1.60	0.67
67:c9:117:SER:OG	67:c9:118:PRO:O	2.13	0.67
72:d4:29:HIS:CE1	72:d4:34:ASN:HA	2.30	0.67
72:d4:126:ALA:HA	72:d4:129:VAL:HG22	1.77	0.67
1:1:1599:G:OP1	81:1:3608[B]:OHX:N3	2.29	0.66
10:p:249:ARG:NH1	10:p:253:SER:HB2	2.10	0.66
1:AR:412:G:OP1	18:CR:62:ARG:NH1	2.29	0.66
1:AR:2371:G:O6	81:AR:3410:OHX:N4	2.28	0.66
12:CL:220:GLN:O	81:CL:301:OHX:N5	2.27	0.66
31:DE:13:LYS:HB3	31:DE:100:ILE:HG22	1.77	0.66
47:A:625:C:H2'	47:A:626:U:C6	2.29	0.66
47:A:1592:A:H2'	47:A:1593:A:H8	1.59	0.66
49:C:95:ASN:HD21	49:C:97:LEU:HD22	1.61	0.66
54:H:23:ARG:HH21	54:H:42:GLY:HA2	1.58	0.66
64:R:57:LEU:HD23	64:R:57:LEU:H	1.60	0.66
47:sR:804:A:N3	70:d2:105:THR:HG22	2.11	0.66
1:1:86:G:O2'	1:1:98:G:O6	2.12	0.66
1:1:1086:C:H1'	30:AC:47:LEU:HD21	1.76	0.66
1:1:1422:G:H21	8:n:5:LYS:HE3	1.58	0.66
1:1:2527:G:O3'	10:p:245:LYS:NZ	2.26	0.66
44:AQ:44:LYS:HD2	44:AQ:45:LYS:H	1.59	0.66
17:CQ:3:VAL:HG13	17:CQ:4:GLU:HG3	1.77	0.66
47:A:1798:U:OP2	74:b:38:ARG:NH2	2.27	0.66
57:K:129:ILE:HG13	57:K:134:ILE:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:s4:200:ARG:HA	52:s4:206:ASP:HB3	1.76	0.66
53:s5:218:GLU:H	53:s5:219:ARG:CZ	2.06	0.66
1:1:1767:C:H2'	1:1:1768:U:C6	2.30	0.66
6:l:299:ILE:HG23	19:y:39:ARG:HB3	1.76	0.66
31:AD:41:LEU:HB3	31:AD:92:ILE:HD11	1.77	0.66
2:AS:85:G:N7	81:AS:3506:OHX:N6	2.43	0.66
18:CR:29:THR:HA	18:CR:32:THR:HG23	1.78	0.66
47:A:1525:A:H5'	67:U:93:HIS:HB2	1.78	0.66
76:d:14:LYS:HD2	76:d:15:VAL:H	1.59	0.66
47:sR:250:C:H2'	47:sR:251:A:C8	2.30	0.66
47:sR:753:A:H4'	52:s4:221:ARG:HD2	1.78	0.66
47:sR:1794:A:OP2	74:d6:4:LYS:NZ	2.26	0.66
53:s5:51:VAL:HG23	53:s5:131:GLN:HG2	1.76	0.66
66:c8:57:ARG:HH12	73:d5:40:VAL:HG22	1.60	0.66
1:1:300:G:O6	81:1:3605:OHX:N2	2.28	0.66
1:1:745:C:H5''	19:y:145:ASN:ND2	2.10	0.66
1:1:979:U:H4'	1:1:980:A:O5'	1.95	0.66
1:1:1667:A:H2'	1:1:1668:G:C8	2.30	0.66
33:AF:100:ILE:O	33:AF:125:ARG:NH1	2.27	0.66
1:AR:1387:G:OP1	81:AR:3511[B]:OHX:N6	2.29	0.66
1:AR:2697:A:H2'	1:AR:2698:G:C8	2.30	0.66
3:AT:64:U:H5'	36:DJ:49:LYS:HD2	1.77	0.66
14:CN:166:ALA:HB1	29:DC:147:LEU:HD21	1.78	0.66
47:A:1239:U:O4	81:A:2112:OHX:N6	2.29	0.66
50:D:237:VAL:HG21	69:W:35:ASN:HD21	1.60	0.66
47:sR:762:A:P	57:s9:79:ARG:HH12	2.18	0.66
47:sR:863:A:O5'	70:d2:57:ARG:HG2	1.96	0.66
64:c6:46:PHE:O	64:c6:50:GLU:HG3	1.94	0.66
72:d4:20:ARG:NH2	72:d4:22:GLN:OE1	2.28	0.66
76:d8:19:THR:HG22	76:d8:20:GLY:H	1.60	0.66
1:1:1245:A:N6	1:1:1272:C:O2'	2.28	0.66
7:m:258:LYS:HD2	7:m:259:LYS:H	1.61	0.66
14:t:76:THR:HG22	14:t:101:ARG:HB3	1.77	0.66
44:AQ:75:ALA:O	44:AQ:79:VAL:HG23	1.95	0.66
1:AR:1534:A:H2'	1:AR:1535:A:C8	2.30	0.66
1:AR:1786:G:H2'	1:AR:1787:A:C8	2.31	0.66
4:CD:48:ILE:HG22	4:CD:59:ALA:HA	1.78	0.66
8:CH:85:ILE:HG23	34:DH:107:ILE:HG22	1.76	0.66
14:CN:55:ARG:NH1	14:CN:73:ARG:O	2.28	0.66
31:DE:100:ILE:HG13	31:DE:101:LEU:HD12	1.76	0.66
43:DQ:25:VAL:HG22	43:DQ:72:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:340:U:H2'	47:A:341:A:C8	2.29	0.66
47:A:1253:U:O3'	79:g:143:LYS:HG3	1.95	0.66
49:C:85:LYS:HB3	49:C:101:HIS:HB3	1.76	0.66
80:h:69:GLN:NE2	80:h:70:ASP:HB2	2.11	0.66
47:sR:358:U:O4	81:sR:1931:OHX:N6	2.28	0.66
47:sR:741:C:O2	55:s7:107:ARG:NH2	2.29	0.66
47:sR:1217:A:H4'	58:c0:44:LYS:HE3	1.78	0.66
47:sR:1370:U:O4	81:sR:1995:OHX:N6	2.27	0.66
49:s1:207:LEU:O	49:s1:210:ILE:HD11	1.94	0.66
52:s4:126:VAL:HG12	52:s4:158:ASP:O	1.95	0.66
63:c5:130:ARG:HB3	63:c5:133:ALA:HB2	1.77	0.66
68:d0:35:GLU:HG3	68:d0:89:ARG:HH22	1.60	0.66
1:1:1262:G:H2'	1:1:1264:G:C8	2.31	0.66
1:1:1659:U:H2'	1:1:1660:C:C6	2.31	0.66
1:1:2865:U:O4	81:1:3430:OHX:N6	2.28	0.66
1:AR:1580:A:H5'	1:AR:2522:G:N7	2.09	0.66
1:AR:1596:C:H2'	1:AR:1597:C:C6	2.31	0.66
16:CP:116:LEU:O	16:CP:117:ASN:ND2	2.28	0.66
27:DA:106:ILE:HG21	27:DA:109:LEU:HD23	1.77	0.66
47:A:892:A:H2'	47:A:893:U:C6	2.31	0.66
47:A:1684:U:H2'	47:A:1685:G:H8	1.60	0.66
48:B:28:ASN:HA	48:B:46:HIS:CE1	2.29	0.66
49:C:62:LYS:HA	49:C:88:VAL:HB	1.75	0.66
60:N:44:GLY:O	60:N:48:SER:OG	2.08	0.66
48:s0:71:GLU:O	48:s0:96:THR:OG1	2.13	0.66
72:d4:128:LYS:HA	72:d4:131:ARG:HB2	1.77	0.66
5:k:92:TYR:HB2	5:k:157:VAL:HG22	1.77	0.66
25:7:6:ASP:HB3	25:7:10:GLY:H	1.59	0.66
27:9:17:LYS:O	27:9:21:THR:OG1	2.13	0.66
28:AA:108:GLU:O	28:AA:112:LYS:HG3	1.96	0.66
1:AR:271:C:O2	37:DK:82:ARG:NH2	2.29	0.66
1:AR:283:G:OP2	1:AR:285:A:O2'	2.10	0.66
53:G:76:ARG:HG3	53:G:76:ARG:HH11	1.61	0.66
64:R:55:VAL:HG21	64:R:105:LEU:HG	1.76	0.66
47:sR:73:U:H2'	47:sR:74:U:C6	2.31	0.66
47:sR:1483:A:H2'	47:sR:1484:G:C8	2.31	0.66
58:c0:38:LYS:HD2	58:c0:38:LYS:H	1.60	0.66
68:d0:105:GLN:HA	68:d0:108:ILE:HD13	1.76	0.66
77:d9:46:LYS:O	77:d9:50:ILE:HG13	1.96	0.66
1:1:792:G:H2'	1:1:793:C:C6	2.31	0.66
6:l:74:ILE:HD13	6:l:88:GLY:HA2	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:300:G:O6	81:AR:3667:OHX:N2	2.29	0.66
5:CE:261:MET:HG2	17:CQ:64:PHE:HA	1.77	0.66
47:A:1533:C:H4'	47:A:1539:G:N1	2.11	0.66
50:D:68:ILE:CG2	50:D:72:LEU:HD11	2.25	0.66
50:D:225:LEU:HD22	70:X:68:ARG:HA	1.78	0.66
52:F:64:ILE:HG13	72:Z:18:LEU:HD21	1.76	0.66
76:d:13:ILE:HG13	76:d:14:LYS:N	2.11	0.66
80:h:19:TRP:O	80:h:38:ARG:N	2.27	0.66
47:sR:794:U:H4'	47:sR:795:U:OP2	1.94	0.66
47:sR:817:A:H2'	47:sR:818:C:C6	2.31	0.66
47:sR:1339:C:O2'	47:sR:1341:A:N7	2.28	0.66
47:sR:1405:G:OP1	53:s5:80:LYS:HE3	1.96	0.66
51:s3:74:GLN:NE2	51:s3:75:LYS:HG3	2.11	0.66
57:s9:81:VAL:HG12	57:s9:86:LEU:HB3	1.77	0.66
1:1:3343:G:H21	1:1:3362:A:H2	1.42	0.66
6:l:353:ALA:HA	6:l:356:THR:HG22	1.77	0.66
13:s:49:LYS:HB3	13:s:62:ASN:HA	1.76	0.66
47:A:340:U:H2'	47:A:341:A:H8	1.61	0.66
53:G:162:VAL:HG23	76:d:45:LYS:HB3	1.77	0.66
59:M:93:TYR:HD1	59:M:100:TYR:HE1	1.41	0.66
60:N:43:ARG:O	60:N:47:GLU:HB3	1.96	0.66
63:Q:25:LEU:HA	63:Q:28:MET:HB2	1.77	0.66
50:s2:140:ARG:NH2	69:d1:10:GLU:OE2	2.28	0.66
1:1:2877:G:OP1	81:1:3595:OHX:N4	2.28	0.66
5:k:303:LYS:HD2	5:k:361:THR:HG21	1.77	0.66
1:AR:2895:G:H2'	1:AR:2896:A:H5''	1.78	0.66
10:CJ:109:LEU:HD23	10:CJ:112:GLU:HG3	1.78	0.66
53:G:173:ALA:O	53:G:177:ILE:HG12	1.96	0.66
47:sR:817:A:H1'	55:s7:110:GLN:NE2	2.10	0.66
48:s0:177:LEU:O	48:s0:181:VAL:HG23	1.95	0.66
1:1:541:U:O4	81:1:4130:OHX:N2	2.29	0.65
1:1:678:G:O6	81:1:4108:OHX:N3	2.29	0.65
12:r:170:LYS:HA	12:r:177:ASP:HA	1.79	0.65
1:AR:1754:G:OP1	81:AR:3630:OHX:N4	2.29	0.65
1:AR:2298:U:OP1	81:AR:3446:OHX:N1	2.29	0.65
28:DB:102:GLU:O	28:DB:102:GLU:HG3	1.94	0.65
39:DM:5:ILE:HG23	39:DM:54:LEU:HB2	1.78	0.65
45:sM:61:ILE:HG21	66:c8:120:ARG:HG3	1.77	0.65
47:A:38:C:H2'	47:A:39:A:H5'	1.77	0.65
47:A:545:A:N1	47:A:593:U:O2'	2.28	0.65
47:A:568:G:C4'	71:Y:90:ASP:HB2	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:P:78:ALA:CB	62:P:111:ARG:HB2	2.24	0.65
53:s5:166:ARG:NH2	53:s5:170:GLN:OE1	2.30	0.65
76:d8:57:MET:SD	76:d8:57:MET:N	2.69	0.65
1:1:265:A:H5''	37:AJ:34:SER:HB2	1.78	0.65
23:5:37:LEU:O	23:5:41:ILE:HG12	1.96	0.65
28:AA:63:ALA:O	28:AA:67:LYS:HD3	1.97	0.65
36:AI:101:THR:HG22	36:AI:103:LYS:H	1.61	0.65
7:CG:5:LYS:HD2	7:CG:5:LYS:H	1.60	0.65
47:A:260:U:H3'	47:A:261:U:C5'	2.26	0.65
47:A:900:A:OP1	62:P:44:GLY:HA3	1.97	0.65
49:C:128:LYS:HE3	49:C:129:THR:C	2.21	0.65
63:Q:14:THR:HG22	63:Q:15:HIS:H	1.61	0.65
63:Q:24:LYS:O	63:Q:27:GLU:C	2.38	0.65
63:Q:56:PHE:CZ	63:Q:60:LEU:HD11	2.31	0.65
66:T:49:LYS:NZ	66:T:80:LYS:O	2.30	0.65
80:h:33:LEU:HD12	80:h:45:TRP:CD1	2.31	0.65
47:sR:1111:G:O6	81:sR:1926:OHX:N1	2.29	0.65
48:s0:198:MET:HG2	48:s0:200:ASP:HB2	1.78	0.65
1:1:132:C:H2'	1:1:133:U:H5''	1.78	0.65
1:1:3182:G:OP1	17:w:160:ARG:NH2	2.30	0.65
7:m:104:LEU:HA	7:m:247:ILE:HG21	1.78	0.65
11:q:129:ARG:H	11:q:157:ASN:ND2	1.93	0.65
16:v:43:THR:OG1	16:v:131:GLU:OE1	2.15	0.65
34:AG:59:VAL:O	34:AG:61:GLY:N	2.29	0.65
43:AP:77:CYS:O	43:AP:78:LYS:HG3	1.96	0.65
1:AR:394:G:N7	81:AR:3452:OHX:N3	2.44	0.65
1:AR:1064:A:H4'	1:AR:1065:A:O5'	1.95	0.65
1:AR:1915:A:H2'	1:AR:1916:U:C6	2.31	0.65
1:AR:2263:C:H1'	1:AR:2264:U:H5'	1.78	0.65
7:CG:105:ILE:O	7:CG:109:THR:HG23	1.96	0.65
47:A:727:U:O2'	47:A:728:U:H5''	1.96	0.65
47:A:1171:A:H2'	47:A:1172:G:C8	2.31	0.65
47:A:1550:A:OP2	63:Q:42:ARG:NH2	2.29	0.65
47:A:1641:C:H2'	47:A:1642:G:C8	2.31	0.65
49:C:135:LEU:HD23	49:C:136:ARG:N	2.12	0.65
52:F:104:ASP:OD1	52:F:110:ALA:HB2	1.95	0.65
80:h:73:LEU:HD12	80:h:79:TYR:O	1.95	0.65
53:s5:109:LYS:O	53:s5:113:ILE:HG13	1.96	0.65
56:s8:138:ASN:HB2	56:s8:141:ARG:CZ	2.26	0.65
67:c9:100:ILE:O	67:c9:104:VAL:HG13	1.97	0.65
68:d0:57:ARG:HG2	68:d0:89:ARG:HD2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:148:G:OP2	16:v:4:TYR:OH	2.12	0.65
1:1:1029:G:H2'	1:1:1030:A:H8	1.59	0.65
1:1:1578:C:H3'	1:1:1579:C:C6	2.31	0.65
1:1:2678:A:H8	45:i:47:ALA:HB2	1.60	0.65
5:k:112:ASP:O	5:k:116:ARG:HG3	1.96	0.65
7:m:153:THR:HG23	7:m:160:PHE:CZ	2.31	0.65
23:5:57:THR:HG23	23:5:64:THR:HB	1.79	0.65
1:AR:510:G:O6	81:AR:3523:OHX:N5	2.29	0.65
1:AR:629:U:H2'	1:AR:630:A:C8	2.32	0.65
3:AT:10:A:H2'	3:AT:11:C:C6	2.31	0.65
24:CX:24:ASN:OD1	24:CX:32:ARG:NH1	2.28	0.65
47:A:1202:A:H1'	47:A:1207:C:N4	2.10	0.65
47:A:1290:U:H2'	47:A:1291:G:C8	2.31	0.65
55:I:72:LYS:H	55:I:72:LYS:HD2	1.60	0.65
60:N:63:VAL:HG21	60:N:94:ALA:HA	1.78	0.65
66:T:69:ILE:O	66:T:72:ILE:HG22	1.95	0.65
73:a:44:GLN:HG2	73:a:45:GLU:H	1.60	0.65
47:sR:12:U:H2'	47:sR:13:C:C6	2.32	0.65
47:sR:187:G:H4'	47:sR:188:A:OP1	1.96	0.65
47:sR:228:G:H1	47:sR:236:A:H61	1.45	0.65
80:Rb:14:GLU:HG3	80:Rb:309:VAL:HG22	1.79	0.65
53:s5:195:ALA:O	53:s5:199:ILE:HD12	1.96	0.65
63:c5:37:ALA:O	63:c5:42:ARG:NH1	2.28	0.65
65:c7:26:LEU:HD23	65:c7:59:LYS:HD3	1.77	0.65
68:d0:36:ASN:OD1	68:d0:37:VAL:N	2.27	0.65
73:d5:64:VAL:O	73:d5:68:ARG:HD3	1.96	0.65
1:1:1786:G:H2'	1:1:1787:A:C8	2.32	0.65
12:r:193:ASP:OD1	12:r:194:GLY:N	2.28	0.65
14:t:6:ASN:HB2	29:AB:48:TYR:CG	2.32	0.65
16:v:66:VAL:HG23	16:v:98:LEU:HD23	1.79	0.65
1:AR:546:C:H5'	1:AR:547:G:H5'	1.79	0.65
1:AR:3045:G:OP1	5:CE:19:ARG:NH2	2.29	0.65
1:AR:3291:G:H2'	1:AR:3292:A:C8	2.32	0.65
2:AS:121:U:OP2	7:CG:265:TYR:OH	2.12	0.65
27:DA:17:LYS:O	27:DA:21:THR:OG1	2.15	0.65
39:DM:66:ILE:CG2	39:DM:77:ARG:HH21	2.10	0.65
47:A:789:A:O2'	52:F:106:LYS:NZ	2.30	0.65
47:A:1202:A:H1'	47:A:1207:C:H42	1.62	0.65
49:C:31:ASP:HB3	49:C:45:LYS:CE	2.27	0.65
50:D:108:ASN:O	50:D:141:ARG:NH1	2.30	0.65
55:I:67:LEU:HD23	55:I:71:HIS:CE1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:J:138:ASN:HA	56:J:141:ARG:HE	1.60	0.65
47:sR:340:U:H2'	47:sR:341:A:H8	1.60	0.65
47:sR:800:U:H2'	47:sR:801:G:H8	1.60	0.65
47:sR:1628:U:H2'	47:sR:1629:G:C8	2.30	0.65
64:c6:114:ARG:O	64:c6:115:THR:HG22	1.97	0.65
1:1:1015:U:O2'	1:1:1017:C:OP2	2.13	0.65
1:1:1236:G:N2	1:1:1272:C:OP1	2.28	0.65
1:1:1247:U:H2'	1:1:1268:G:O6	1.96	0.65
1:1:3233:C:H2'	1:1:3234:A:C8	2.32	0.65
6:l:62:ALA:HB3	6:l:90:PHE:HE2	1.62	0.65
20:z:168:ALA:O	20:z:172:ARG:NH1	2.29	0.65
28:AA:111:LYS:HA	28:AA:114:VAL:HG22	1.78	0.65
1:AR:602:A:H2'	1:AR:603:A:C8	2.32	0.65
1:AR:1892:G:N7	81:AR:3610:OHX:N4	2.45	0.65
47:A:1061:A:H2'	47:A:1062:A:H5'	1.77	0.65
47:A:1280:C:H2'	47:A:1281:G:C8	2.30	0.65
47:A:1482:C:OP2	47:A:1521:G:N1	2.30	0.65
50:D:178:ILE:HD13	50:D:188:LEU:HB2	1.78	0.65
60:N:45:LEU:O	60:N:49:THR:OG1	2.09	0.65
71:Y:23:ARG:O	71:Y:26:GLU:HG3	1.96	0.65
73:a:93:SER:HB2	73:a:100:ILE:HD12	1.78	0.65
47:sR:595:G:OP2	81:sR:1959:OHX:N6	2.30	0.65
47:sR:1680:G:O6	81:sR:1950[B]:OHX:N6	2.30	0.65
51:s3:191:ASP:HB3	51:s3:194:LYS:HB2	1.79	0.65
53:s5:114:ILE:HD12	53:s5:115:LYS:N	2.12	0.65
1:1:3031:G:O6	81:1:3557:OHX:N4	2.29	0.65
1:AR:2679:A:HO2'	13:CM:52:TYR:HH	1.43	0.65
1:AR:2818:U:H5'	1:AR:2818:U:H6	1.61	0.65
5:CE:46:PHE:CE2	5:CE:205:VAL:HG22	2.31	0.65
5:CE:171:LEU:O	81:CE:403:OHX:N3	2.28	0.65
7:CG:146:LEU:HD22	7:CG:163:LEU:HD13	1.77	0.65
13:CM:166:LYS:HB3	13:CM:167:TYR:HD1	1.62	0.65
47:A:707:A:H61	47:A:730:G:H22	1.45	0.65
47:A:793:A:H5'	47:A:794:U:C6	2.32	0.65
47:A:1315:U:O2	65:S:4:VAL:HG21	1.97	0.65
47:A:1590:G:OP1	67:U:91:TYR:HB2	1.96	0.65
53:G:224:ASN:O	53:G:225:ARG:NH1	2.30	0.65
62:P:81:VAL:HG22	62:P:115:ILE:HB	1.79	0.65
47:sR:1154:G:N7	81:sR:1988:OHX:N2	2.45	0.65
49:s1:168:ILE:HD12	49:s1:197:ILE:HD12	1.78	0.65
81:1:3406:OHX:N1	3:4:2:A:OP2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m:153:THR:HG22	7:m:179:ARG:HD2	1.79	0.65
4:CD:90:ALA:HB1	4:CD:101:VAL:HG22	1.79	0.65
28:DB:116:LYS:HA	28:DB:119:GLU:OE1	1.96	0.65
46:p0:37:GLN:NE2	46:p0:104:ARG:O	2.28	0.65
47:A:1150:G:H4'	47:A:1151:A:OP2	1.95	0.65
47:A:1508:U:O4	81:A:1971:OHX:N2	2.29	0.65
49:C:129:THR:HG23	49:C:131:ASP:O	1.97	0.65
49:C:145:LYS:HB2	49:C:149:GLN:HE21	1.62	0.65
47:sR:567:A:H1'	78:e0:14:VAL:HG13	1.77	0.65
57:s9:109:LEU:HD21	57:s9:129:ILE:HG12	1.77	0.65
1:1:528:U:H2'	1:1:529:A:H8	1.62	0.65
1:1:1831:U:O2'	3:4:114:G:OP1	2.09	0.65
16:v:75:VAL:HG21	16:v:89:VAL:HG22	1.79	0.65
18:x:132:ALA:O	18:x:135:ARG:NH1	2.29	0.65
1:AR:673:U:OP1	19:CS:21:SER:OG	2.14	0.65
1:AR:1591:G:OP1	35:DI:37:LYS:NZ	2.27	0.65
10:CJ:153:ILE:HD13	10:CJ:166:LEU:HB3	1.79	0.65
22:CV:111:ALA:O	22:CV:115:LYS:HG3	1.97	0.65
47:A:209:U:H2'	47:A:210:A:C8	2.32	0.65
55:I:16:LEU:HA	55:I:19:GLN:OE1	1.97	0.65
47:sR:523:G:H5'	72:d4:60:PHE:O	1.96	0.65
47:sR:1009:U:OP2	62:c4:129:LYS:NZ	2.26	0.65
47:sR:1477:G:H2'	47:sR:1478:G:C8	2.32	0.65
47:sR:1786:G:OP2	62:c4:133:ARG:NH1	2.30	0.65
80:Rb:16:HIS:CE1	80:Rb:43:ILE:HG13	2.31	0.65
80:Rb:256:THR:HG23	80:Rb:259:GLY:H	1.62	0.65
55:s7:38:LEU:HA	55:s7:41:LEU:CD1	2.27	0.65
7:m:153:THR:HG23	7:m:160:PHE:HZ	1.62	0.65
1:AR:2209:U:O2'	1:AR:2210:G:OP2	2.15	0.65
6:CF:26:PHE:CD2	6:CF:130:ALA:HB2	2.32	0.65
47:A:808:U:H2'	47:A:809:A:C8	2.31	0.65
50:D:176:SER:N	50:D:195:ASP:OD2	2.20	0.65
54:H:145:PHE:CZ	54:H:158:ILE:HD11	2.31	0.65
74:b:79:ILE:HA	74:b:84:VAL:CG1	2.27	0.65
53:s5:216:GLU:HA	53:s5:219:ARG:CD	2.26	0.65
55:s7:12:ALA:N	55:s7:13:PRO:HD3	2.12	0.65
64:c6:94:GLN:HG2	64:c6:102:LYS:HE2	1.78	0.65
12:r:145:LYS:HD2	12:r:167:LEU:HD21	1.78	0.64
21:0:91:TYR:O	21:0:137:ARG:NH1	2.29	0.64
45:i:68:ARG:HH21	66:T:146:ALA:H	1.44	0.64
45:i:111:GLY:HA3	51:E:116:ARG:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2228:A:H2'	1:AR:2229:A:C8	2.33	0.64
1:AR:2261:G:H21	1:AR:2262:A:N6	1.94	0.64
23:CW:34:ALA:O	23:CW:38:ILE:HG23	1.98	0.64
47:A:52:U:H2'	47:A:53:G:C8	2.31	0.64
47:A:833:U:O4	81:A:1907:OHX:N1	2.30	0.64
47:A:1029:U:OP2	74:b:12:LYS:NZ	2.30	0.64
48:B:200:ASP:HA	48:B:203:PHE:CD1	2.32	0.64
52:F:133:LYS:O	52:F:136:VAL:HG12	1.96	0.64
59:M:75:VAL:HG12	59:M:121:ASP:O	1.97	0.64
60:N:95:LYS:HA	60:N:117:GLY:HA2	1.78	0.64
62:P:29:HIS:CB	62:P:41:ARG:HB3	2.28	0.64
64:R:39:VAL:H	64:R:45:ARG:NH1	1.95	0.64
47:sR:1041:G:OP1	81:sR:2015:OHX:N4	2.30	0.64
1:1:213:A:OP1	27:9:2:ALA:N	2.31	0.64
1:1:2386:A:OP1	81:1:4117:OHX:N3	2.30	0.64
11:q:109:ALA:HB1	11:q:111:PHE:CE2	2.32	0.64
11:q:128:VAL:HA	11:q:157:ASN:HD21	1.62	0.64
1:AR:275:U:O4	81:AR:3565:OHX:N5	2.30	0.64
1:AR:1127:G:OP2	12:CL:98:ARG:NH1	2.30	0.64
15:CO:92:GLU:N	15:CO:92:GLU:OE1	2.27	0.64
47:A:68:A:OP1	54:H:160:ARG:NH2	2.29	0.64
53:G:97:LEU:HD22	53:G:114:ILE:HD11	1.80	0.64
47:sR:57:G:O6	81:sR:1946:OHX:N3	2.30	0.64
47:sR:383:G:O6	81:sR:2000:OHX:N3	2.31	0.64
47:sR:683:C:H3'	47:sR:684:A:H5''	1.78	0.64
53:s5:27:THR:O	53:s5:29:ILE:HD12	1.97	0.64
55:s7:31:SER:HB3	55:s7:35:LYS:H	1.62	0.64
68:d0:46:GLU:HA	68:d0:49:ASN:H	1.63	0.64
72:d4:59:GLY:O	72:d4:71:GLY:HA2	1.96	0.64
14:t:28:GLN:OE1	16:v:201:ARG:NH1	2.29	0.64
23:5:54:VAL:HG12	23:5:67:SER:HB2	1.79	0.64
24:6:6:ALA:HB2	24:6:126:TRP:CH2	2.33	0.64
32:AE:61:LYS:NZ	32:AE:68:GLU:OE2	2.30	0.64
43:AP:71:ARG:NH1	43:AP:80:ARG:HH11	1.96	0.64
3:AT:83:C:H1'	3:AT:85:G:N2	2.13	0.64
43:DQ:3:ASN:ND2	43:DQ:94:GLY:O	2.28	0.64
47:A:30:G:H2'	47:A:31:C:C6	2.32	0.64
47:A:739:G:O6	81:A:1946:OHX:N4	2.30	0.64
47:A:1473:U:O2'	53:G:103:ASN:OD1	2.15	0.64
47:A:1564:U:H2'	47:A:1565:C:C6	2.31	0.64
49:C:26:ARG:CZ	49:C:27:LYS:HE3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:E:208:ILE:HD12	51:E:209:ILE:H	1.63	0.64
67:U:63:ARG:NE	67:U:67:MET:HE1	2.12	0.64
47:sR:486:G:N2	47:sR:501:U:H3	1.94	0.64
53:s5:42:LEU:HD22	53:s5:48:PHE:H	1.61	0.64
62:c4:14:PHE:HZ	74:d6:58:VAL:HG21	1.62	0.64
62:c4:43:THR:H	62:c4:46:MET:HE2	1.62	0.64
9:o:160:ARG:HB2	9:o:203:TRP:CD2	2.33	0.64
1:AR:393:U:OP2	81:AR:3452:OHX:N1	2.30	0.64
1:AR:678:G:O6	81:AR:3515:OHX:N2	2.31	0.64
1:AR:3016:A:H2'	1:AR:3017:A:H8	1.61	0.64
47:A:364:G:OP1	81:A:2124:OHX:N3	2.29	0.64
54:H:58:LYS:HD2	54:H:105:ASP:O	1.98	0.64
64:R:43:ILE:H	64:R:43:ILE:HD12	1.62	0.64
47:sR:827:C:H2'	47:sR:828:U:H6	1.62	0.64
80:Rb:21:THR:N	80:Rb:36:ALA:O	2.31	0.64
56:s8:26:LYS:HG3	56:s8:29:LEU:HD23	1.79	0.64
67:c9:70:GLN:HE22	67:c9:119:LYS:HD3	1.63	0.64
1:1:602:A:H2'	1:1:603:A:C8	2.32	0.64
1:1:1724:U:H1'	1:1:1725:C:C6	2.32	0.64
1:1:3151:U:H4'	1:1:3294:A:H1'	1.80	0.64
1:1:3228:C:H4'	1:1:3229:G:O5'	1.97	0.64
16:v:51:LEU:HD22	16:v:117:ASN:HD22	1.62	0.64
25:7:13:ILE:HG22	25:7:32:GLN:HG2	1.80	0.64
43:AP:77:CYS:SG	43:AP:79:THR:OG1	2.55	0.64
1:AR:528:U:H2'	1:AR:529:A:C8	2.32	0.64
7:CG:34:LYS:O	7:CG:38:THR:HG23	1.98	0.64
24:CX:66:LYS:HB2	24:CX:69:LEU:HD12	1.77	0.64
47:A:541:A:O2'	47:A:542:A:H4'	1.97	0.64
53:G:120:ILE:O	53:G:123:VAL:HG12	1.98	0.64
47:sR:919:A:H4'	62:c4:35:GLY:HA3	1.79	0.64
56:s8:34:ALA:HB2	56:s8:56:ARG:HD3	1.79	0.64
1:1:12:A:H1'	26:8:37:THR:HG21	1.79	0.64
1:1:1110:U:H2'	1:1:1111:U:C6	2.33	0.64
3:4:16:G:O6	81:4:204:OHX:N1	2.30	0.64
17:w:65:ASN:HB3	17:w:68:ARG:HG3	1.77	0.64
33:AF:63:THR:HA	33:AF:66:LEU:HD22	1.80	0.64
36:AI:102:GLU:CD	36:AI:102:GLU:H	2.06	0.64
39:AL:31:LEU:HA	39:AL:37:PRO:HA	1.78	0.64
12:CL:87:LEU:HD12	12:CL:138:VAL:HG12	1.79	0.64
23:CW:104:ARG:HG3	23:CW:105:LEU:H	1.62	0.64
30:DD:5:LYS:HE2	30:DD:8:THR:HB	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:530:C:O2	72:Z:61:ARG:NH2	2.31	0.64
51:E:194:LYS:O	51:E:194:LYS:HD2	1.98	0.64
57:K:123:HIS:O	57:K:127:VAL:HG23	1.98	0.64
74:b:50:VAL:HA	74:b:53:LEU:HD22	1.80	0.64
47:sR:180:A:H2'	47:sR:181:A:O4'	1.98	0.64
80:Rb:5:GLU:HA	80:Rb:317:THR:HA	1.79	0.64
49:s1:201:THR:OG1	49:s1:207:LEU:HD12	1.98	0.64
69:d1:33:GLN:HE21	69:d1:52:THR:HG21	1.63	0.64
1:1:773:G:O6	81:1:3416:OHX:N6	2.31	0.64
1:1:1222:G:HO2'	1:1:1285:G:H1	1.45	0.64
1:1:1222:G:HO2'	1:1:1285:G:N2	1.96	0.64
2:3:4:U:H2'	2:3:5:G:C8	2.32	0.64
7:m:69:ILE:HG13	22:2:31:LEU:HB3	1.77	0.64
12:r:82:ARG:HG2	12:r:83:ASP:OD1	1.98	0.64
27:9:38:GLU:HG2	27:9:39:LEU:HD12	1.80	0.64
45:i:68:ARG:HE	66:T:146:ALA:HB3	1.63	0.64
1:AR:155:G:H21	37:DK:26:ILE:HD11	1.63	0.64
1:AR:1178:G:O6	34:DH:20:LYS:NZ	2.30	0.64
1:AR:1952:G:H3'	1:AR:1953:G:H5''	1.80	0.64
14:CN:46:ILE:HG22	14:CN:47:ALA:HB2	1.80	0.64
34:DH:14:LEU:HD11	34:DH:31:LYS:HB2	1.79	0.64
47:A:804:A:N3	70:X:105:THR:HG22	2.13	0.64
47:A:932:U:OP2	49:C:155:TYR:OH	2.16	0.64
54:H:98:ARG:NH1	54:H:101:ILE:O	2.20	0.64
55:I:67:LEU:HB3	55:I:71:HIS:NE2	2.13	0.64
60:N:60:VAL:HG22	60:N:122:VAL:HG22	1.79	0.64
52:s4:251:GLU:HG2	52:s4:255:ARG:HH22	1.63	0.64
55:s7:55:LYS:HE3	55:s7:87:ASP:CG	2.22	0.64
70:d2:20:THR:HG23	70:d2:22:LYS:HG3	1.80	0.64
76:d8:15:VAL:HG12	76:d8:28:VAL:HG12	1.80	0.64
1:1:2571:U:H1'	1:1:2572:C:H2'	1.78	0.64
13:s:60:ARG:O	13:s:63:GLU:HB2	1.96	0.64
14:t:61:PRO:HB2	14:t:62:THR:HG23	1.78	0.64
26:8:95:ILE:HG13	26:8:110:VAL:HG11	1.80	0.64
1:AR:44:U:H5''	16:CP:85:THR:HG23	1.80	0.64
1:AR:1580:A:H4'	1:AR:1581:C:H5'	1.79	0.64
1:AR:2673:A:OP1	13:CM:95:ASN:ND2	2.30	0.64
1:AR:2927:C:H2'	1:AR:2928:C:C6	2.32	0.64
1:AR:3376:A:H5'	1:AR:3377:G:H5''	1.80	0.64
47:sR:700:C:H2'	47:sR:701:U:C6	2.33	0.64
47:sR:918:U:H2'	47:sR:919:A:H8	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:s4:208:VAL:HG21	52:s4:225:VAL:HG21	1.79	0.64
54:s6:49:VAL:HB	54:s6:115:LYS:HB3	1.80	0.64
66:c8:15:LEU:H	66:c8:15:LEU:HD12	1.63	0.64
78:e0:14:VAL:HA	78:e0:17:GLN:HG2	1.78	0.64
1:l:2180:G:H2'	1:l:2181:C:C6	2.32	0.64
1:l:2697:A:H2'	1:l:2698:G:H8	1.62	0.64
4:j:181:LYS:HE2	4:j:184:ARG:HH11	1.62	0.64
9:o:163:LEU:O	9:o:168:ILE:HD12	1.98	0.64
38:AK:28:HIS:CD2	38:AK:31:LYS:H	2.16	0.64
1:AR:255:A:H2'	1:AR:256:G:C8	2.33	0.64
2:AS:112:G:H2'	2:AS:113:C:C6	2.33	0.64
8:CH:76:LEU:HD21	8:CH:141:VAL:HG21	1.80	0.64
10:CJ:231:LYS:O	10:CJ:231:LYS:HD2	1.97	0.64
46:p0:91:GLU:HB3	46:p0:92:PRO:HD2	1.80	0.64
47:A:900:A:H3'	47:A:901:G:H21	1.63	0.64
62:P:29:HIS:HB2	62:P:41:ARG:HB3	1.78	0.64
67:U:61:VAL:O	67:U:65:ILE:HG13	1.98	0.64
80:Rb:9:LEU:HB3	80:Rb:313:TRP:HA	1.80	0.64
80:Rb:240:VAL:HA	80:Rb:255:ALA:O	1.98	0.64
51:s3:54:ARG:HG2	51:s3:57:ASP:OD1	1.98	0.64
53:s5:41:LYS:HG3	53:s5:69:PHE:CE1	2.33	0.64
54:s6:149:LYS:C	54:s6:149:LYS:HD3	2.23	0.64
65:c7:6:THR:HG22	65:c7:8:THR:H	1.62	0.64
73:d5:48:ASP:O	73:d5:52:LYS:HG2	1.98	0.64
1:l:2369:G:OP2	81:l:4088:OHX:N5	2.30	0.64
6:l:132:ALA:HB2	6:l:148:ILE:HG21	1.79	0.64
6:l:143:GLU:O	81:l:402:OHX:N5	2.31	0.64
13:s:115:LYS:HG2	13:s:116:TYR:N	2.11	0.64
19:y:165:ILE:HD12	19:y:166:LEU:H	1.63	0.64
1:AR:129:U:H2'	1:AR:130:A:C8	2.32	0.64
1:AR:1454:A:OP2	81:AR:3688:OHX:N4	2.31	0.64
7:CG:290:ILE:HG22	12:CL:210:ILE:HD11	1.80	0.64
10:CJ:245:LYS:NZ	10:CJ:249:ARG:HG2	2.13	0.64
28:DB:25:ILE:HA	28:DB:43:VAL:HG12	1.79	0.64
47:A:189:C:H41	56:J:138:ASN:HD21	1.45	0.64
47:A:1284:C:O2	81:A:1969:OHX:N4	2.31	0.64
50:D:45:VAL:CG1	50:D:68:ILE:HG13	2.21	0.64
50:D:56:ILE:HG23	50:D:61:LEU:HB2	1.79	0.64
51:E:65:ARG:O	51:E:69:LEU:HD12	1.98	0.64
53:G:74:ALA:N	64:R:114:ARG:HD3	2.13	0.64
53:G:110:ALA:HA	53:G:113:ILE:HD12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:J:11:ARG:HB2	56:J:16:ALA:O	1.97	0.64
47:sR:1477:G:H2'	47:sR:1478:G:H8	1.62	0.64
47:sR:1482:C:OP2	47:sR:1521:G:N1	2.31	0.64
47:sR:1563:C:OP1	67:c9:84:LYS:HE3	1.97	0.64
80:Rb:81:LEU:HD21	80:Rb:91:LEU:HD12	1.79	0.64
80:Rb:124:SER:HB3	80:Rb:134:TRP:HE1	1.63	0.64
80:Rb:147:HIS:CG	80:Rb:179:LYS:HE2	2.32	0.64
55:s7:37:GLU:C	55:s7:38:LEU:HD12	2.23	0.64
58:c0:72:GLY:O	58:c0:76:LEU:HG	1.98	0.64
66:c8:94:ASP:OD1	66:c8:96:LYS:HG3	1.98	0.64
2:3:22:A:H2'	2:3:23:A:C8	2.33	0.63
3:4:69:U:OP2	81:AK:103:OHX:N3	2.30	0.63
19:y:70:ALA:O	19:y:73:GLN:HB2	1.97	0.63
1:AR:792:G:H5''	29:DC:2:PRO:HD3	1.81	0.63
1:AR:2883:U:H2'	1:AR:2884:C:H6	1.63	0.63
6:CF:188:ARG:O	6:CF:193:LYS:NZ	2.31	0.63
7:CG:195:LEU:O	7:CG:199:ILE:HD12	1.97	0.63
20:CT:166:ASN:ND2	47:sR:815:G:OP2	2.30	0.63
31:DE:63:SER:OG	31:DE:65:THR:OG1	2.15	0.63
49:C:26:ARG:HB3	49:C:26:ARG:NH1	2.12	0.63
49:C:48:VAL:O	49:C:49:ASN:ND2	2.31	0.63
52:F:157:ASN:HD22	52:F:222:LEU:HD21	1.64	0.63
52:F:193:GLY:O	52:F:210:ILE:HG23	1.98	0.63
53:G:107:LYS:O	53:G:111:VAL:HG23	1.98	0.63
56:J:41:LYS:HA	56:J:59:ARG:O	1.97	0.63
62:P:19:ILE:HG23	62:P:28:VAL:HG22	1.80	0.63
71:Y:50:LYS:HG3	71:Y:103:LEU:HG	1.79	0.63
57:s9:121:SER:HG	57:s9:124:HIS:H	1.46	0.63
66:c8:32:LEU:HD21	66:c8:69:ILE:HD12	1.79	0.63
71:d3:90:ASP:OD1	78:e0:12:GLY:HA2	1.97	0.63
77:d9:24:CYS:SG	77:d9:26:SER:HB3	2.38	0.63
1:1:3092:C:O2'	1:1:3094:A:OP2	2.12	0.63
1:1:3378:C:OP2	81:1:3432:OHX:N6	2.32	0.63
14:t:75:PHE:H	14:t:98:ASP:H	1.46	0.63
37:AJ:40:VAL:O	37:AJ:44:VAL:HG12	1.98	0.63
39:AL:23:ALA:HB3	39:AL:73:LEU:HD11	1.79	0.63
49:C:31:ASP:O	49:C:96:LEU:HB3	1.99	0.63
57:K:77:ILE:HD12	57:K:78:ARG:N	2.13	0.63
65:S:21:TYR:CE2	65:S:61:ILE:HD11	2.33	0.63
47:sR:530:C:OP1	81:sR:1958:OHX:N1	2.32	0.63
47:sR:802:G:N2	70:d2:107:SER:OG	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:915:A:OP1	81:sR:1927:OHX:N6	2.31	0.63
1:1:102:C:O2'	14:t:62:THR:OG1	2.16	0.63
5:k:41:VAL:HA	5:k:185:GLY:HA3	1.80	0.63
10:p:81:THR:HG21	10:p:181:LYS:HE2	1.80	0.63
23:5:43:VAL:HG12	23:5:49:ASN:HB3	1.80	0.63
26:8:50:ALA:HB2	36:AI:77:PRO:HG2	1.80	0.63
28:AA:72:ILE:HD11	28:AA:111:LYS:HG2	1.80	0.63
40:AM:41:ARG:HH11	40:AM:41:ARG:HG2	1.63	0.63
2:AS:49:G:C5	7:CG:58:LYS:HG3	2.34	0.63
8:CH:66:SER:HB2	8:CH:76:LEU:HD23	1.80	0.63
29:DC:76:ASP:HB2	29:DC:115:LYS:HB3	1.80	0.63
47:A:1732:A:H2'	47:A:1733:C:C6	2.33	0.63
51:E:46:THR:HB	51:E:84:ILE:HG13	1.81	0.63
47:sR:1168:U:OP1	81:sR:1979:OHX:N1	2.30	0.63
47:sR:1451:C:OP1	77:d9:12:ARG:NH2	2.31	0.63
49:s1:169:SER:O	49:s1:173:THR:OG1	2.15	0.63
51:s3:161:GLY:O	51:s3:164:VAL:HG12	1.96	0.63
52:s4:31:PRO:HG2	52:s4:38:LEU:HG	1.81	0.63
53:s5:44:ASN:ND2	53:s5:115:LYS:HG3	2.14	0.63
1:1:778:U:O4	81:1:3508:OHX:N2	2.32	0.63
1:1:2836:C:H5	1:1:2852:C:H42	1.46	0.63
1:1:3121:U:H1'	1:1:3122:A:H5''	1.80	0.63
22:2:8:ARG:O	22:2:11:THR:OG1	2.14	0.63
1:AR:330:G:N7	81:AR:3549:OHX:N1	2.46	0.63
1:AR:838:G:O6	44:DR:4:ARG:NH2	2.32	0.63
1:AR:2697:A:H2'	1:AR:2698:G:H8	1.64	0.63
1:AR:2960:C:H2'	1:AR:2961:G:H8	1.62	0.63
14:CN:89:TYR:HB2	36:DJ:111:PHE:CE1	2.33	0.63
20:CT:150:GLN:HA	20:CT:153:LYS:HB3	1.80	0.63
47:A:418:G:H1'	54:H:59:GLN:HE21	1.64	0.63
47:A:544:A:H1'	78:f:28:LYS:HE2	1.80	0.63
47:A:1592:A:H2'	47:A:1593:A:C8	2.33	0.63
52:F:18:TRP:HB3	52:F:20:LEU:HD23	1.79	0.63
58:L:7:ASP:HA	58:L:10:LYS:HD3	1.81	0.63
61:O:36:GLN:HG2	61:O:54:LEU:HD21	1.80	0.63
80:h:67:ILE:HB	80:h:85:TRP:CG	2.32	0.63
47:sR:1356:U:H2'	47:sR:1357:A:H8	1.63	0.63
80:Rb:96:THR:HG23	80:Rb:98:GLU:H	1.62	0.63
63:c5:122:THR:HG22	63:c5:123:TYR:HD1	1.64	0.63
1:1:67:A:OP1	81:1:3435:OHX:N3	2.31	0.63
1:1:2169:G:O6	81:1:4095:OHX:N5	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:3020:U:O4	81:l:3494:OHX:N4	2.31	0.63
11:q:47:LYS:H	15:u:7:VAL:HB	1.63	0.63
12:r:44:ASP:OD1	12:r:185:ARG:NH1	2.31	0.63
17:w:62:THR:H	17:w:69:GLY:HA3	1.63	0.63
26:8:25:LYS:HD3	26:8:27:ARG:HH21	1.62	0.63
29:AB:3:SER:O	29:AB:6:THR:HG22	1.99	0.63
1:AR:619:A:H4'	1:AR:620:U:H5'	1.79	0.63
1:AR:3255:U:H2'	1:AR:3256:G:H8	1.64	0.63
5:CE:29:VAL:HG22	5:CE:218:ILE:HD12	1.78	0.63
9:CI:236:ILE:O	9:CI:240:VAL:HG13	1.99	0.63
47:A:1797:A:OP2	74:b:10:ARG:HD3	1.97	0.63
48:B:84:ARG:HD3	48:B:204:TYR:CA	2.27	0.63
50:D:244:SER:O	50:D:248:SER:OG	2.15	0.63
67:U:15:ILE:HG23	67:U:59:ALA:HB3	1.80	0.63
72:Z:112:LYS:O	72:Z:116:LYS:HG3	1.98	0.63
73:a:43:ASP:HB3	73:a:46:LYS:HB3	1.79	0.63
47:sR:499:U:O2	47:sR:500:C:N4	2.31	0.63
80:Rb:16:HIS:CE1	80:Rb:37:SER:HB3	2.33	0.63
80:Rb:81:LEU:HD22	80:Rb:91:LEU:HA	1.81	0.63
49:s1:24:PHE:HA	49:s1:27:LYS:HG2	1.81	0.63
50:s2:67:GLN:HA	50:s2:70:ASP:HB2	1.81	0.63
51:s3:224:ASP:OD1	51:s3:225:TYR:N	2.32	0.63
55:s7:55:LYS:NZ	55:s7:87:ASP:O	2.32	0.63
70:d2:32:LYS:O	70:d2:35:ILE:HG13	1.99	0.63
31:AD:25:LEU:HD22	31:AD:90:VAL:HG22	1.80	0.63
40:AM:25:GLN:NE2	40:AM:28:ARG:HE	1.96	0.63
1:AR:1043:C:OP2	81:AR:3525:OHX:N1	2.32	0.63
35:DI:61:GLN:HA	35:DI:64:THR:HG23	1.81	0.63
37:DK:35:ASN:HA	37:DK:38:LYS:HB2	1.80	0.63
37:DK:90:MET:O	37:DK:94:ILE:HG22	1.98	0.63
47:A:699:U:H2'	47:A:700:C:C6	2.33	0.63
47:A:778:G:H22	72:Z:10:ARG:NH2	1.96	0.63
47:A:1600:A:O2'	47:A:1602:C:N4	2.30	0.63
47:A:1623:C:H2'	47:A:1624:C:H6	1.63	0.63
47:A:1783:C:H2'	47:A:1784:C:H6	1.63	0.63
52:F:102:VAL:HG13	52:F:182:TYR:HE2	1.64	0.63
62:P:42:VAL:HG22	62:P:46:MET:HG3	1.79	0.63
76:d:13:ILE:HG13	76:d:14:LYS:H	1.63	0.63
47:sR:404:G:H2'	47:sR:405:C:C6	2.33	0.63
47:sR:542:A:C8	47:sR:543:C:H2'	2.34	0.63
47:sR:929:A:H5''	47:sR:931:C:H41	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1120:U:H2'	47:sR:1121:C:C6	2.34	0.63
48:s0:144:ILE:HG13	48:s0:158:VAL:O	1.98	0.63
52:s4:105:VAL:HG21	52:s4:245:LYS:H	1.64	0.63
64:c6:110:THR:HA	64:c6:113:ASP:HB2	1.80	0.63
1:1:776:U:H5	1:1:2719:U:O2	1.81	0.63
1:1:1349:G:O2'	1:1:1350:A:O4'	2.14	0.63
1:1:3163:A:N1	1:1:3164:C:N4	2.46	0.63
2:3:8:G:O6	7:m:21:ARG:NH1	2.32	0.63
28:AA:101:PHE:HB3	28:AA:107:ARG:HH21	1.64	0.63
1:AR:420:G:O6	81:AR:3434:OHX:N3	2.32	0.63
1:AR:2960:C:H2'	1:AR:2961:G:C8	2.33	0.63
13:CM:12:LEU:H	13:CM:12:LEU:HD12	1.64	0.63
26:CZ:88:MET:HE1	26:CZ:114:VAL:HG13	1.78	0.63
55:I:174:ASN:HD21	55:I:180:GLN:HE21	1.47	0.63
47:sR:365:G:O6	81:sR:1987:OHX:N4	2.32	0.63
47:sR:801:G:OP2	81:sR:2178:OHX:N4	2.32	0.63
47:sR:1160:A:OP2	81:sR:2022:OHX:N4	2.32	0.63
47:sR:1261:G:H2'	47:sR:1262:U:C6	2.34	0.63
49:s1:32:ILE:HD11	49:s1:46:THR:OG1	1.99	0.63
57:s9:57:ARG:O	57:s9:61:THR:HG23	1.99	0.63
1:1:627:U:H2'	1:1:628:A:C8	2.34	0.63
2:3:27:A:OP2	7:m:57:ASN:HB2	1.99	0.63
1:AR:290:G:H4'	16:CP:69:GLY:O	1.97	0.63
1:AR:530:G:N7	81:AR:3449:OHX:N6	2.46	0.63
1:AR:2318:U:O4	81:AR:3496:OHX:N4	2.32	0.63
1:AR:2386:A:OP1	81:AR:3519:OHX:N5	2.31	0.63
24:CX:12:ARG:HG3	24:CX:13:ILE:N	2.11	0.63
34:DH:9:VAL:HG23	34:DH:100:ILE:HB	1.79	0.63
47:A:521:A:H4'	72:Z:36:SER:HB2	1.78	0.63
47:A:647:G:N2	47:A:687:G:H22	1.97	0.63
47:A:885:G:H2'	47:A:886:U:C6	2.34	0.63
49:C:38:PHE:HA	49:C:74:GLN:HE22	1.63	0.63
59:M:93:TYR:HD1	59:M:100:TYR:CE1	2.17	0.63
80:h:146:GLY:HA3	80:h:181:TRP:HH2	1.64	0.63
80:h:190:ALA:HB1	80:h:192:PHE:HE1	1.63	0.63
47:sR:105:A:OP1	56:s8:18:ARG:NH1	2.32	0.63
47:sR:1060:U:H4'	47:sR:1061:A:H5''	1.81	0.63
47:sR:1099:U:OP1	70:d2:71:LYS:NZ	2.32	0.63
53:s5:119:ASP:HB3	73:d5:100:ILE:HD12	1.81	0.63
56:s8:114:GLU:HB3	56:s8:119:GLN:O	1.98	0.63
72:d4:37:LYS:HA	72:d4:40:LEU:HB2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m:219:PHE:HE1	7:m:227:LEU:HD21	1.64	0.63
17:w:189:ASP:O	17:w:193:GLN:HG3	1.99	0.63
21:0:52:LYS:HD2	21:0:54:ALA:HB3	1.81	0.63
32:AE:13:THR:HG22	32:AE:72:ARG:HD2	1.81	0.63
45:i:56:GLY:HA2	63:Q:103:ASN:ND2	2.14	0.63
1:AR:1336:U:OP2	81:AR:4205:OHX:N6	2.32	0.63
1:AR:1485:G:O6	81:AR:3580:OHX:N1	2.32	0.63
2:AS:79:A:OP2	81:AS:3505:OHX:N3	2.32	0.63
21:CU:10:ILE:HG12	21:CU:26:ARG:HB2	1.81	0.63
30:DD:17:HIS:O	81:DD:101:OHX:N1	2.32	0.63
31:DE:47:ASN:HD21	31:DE:74:ASN:CG	2.07	0.63
49:C:70:LEU:O	49:C:73:LEU:N	2.28	0.63
51:E:74:GLN:OE1	51:E:81:PRO:HA	1.98	0.63
52:F:100:ARG:NH2	52:F:122:LYS:HA	2.14	0.63
63:Q:111:MET:HG2	66:T:119:ILE:HG23	1.81	0.63
47:sR:566:C:OP2	71:d3:66:SER:OG	2.16	0.63
51:s3:74:GLN:NE2	51:s3:81:PRO:HD3	2.13	0.63
55:s7:185:ILE:HG22	55:s7:186:PRO:CD	2.27	0.63
62:c4:47:LYS:HD2	62:c4:62:LEU:HD23	1.80	0.63
1:1:553:U:O4	81:1:4102:OHX:N5	2.31	0.62
6:l:140:HIS:H	6:l:180:LYS:HE2	1.63	0.62
11:q:128:VAL:HG23	11:q:132:VAL:CG2	2.29	0.62
23:5:77:LYS:O	23:5:81:LYS:HG2	1.98	0.62
27:9:3:LYS:HG3	27:9:8:VAL:HG13	1.81	0.62
1:AR:1016:C:H2'	1:AR:1017:C:H5'	1.81	0.62
10:CJ:86:THR:O	10:CJ:90:THR:HG23	1.99	0.62
14:CN:42:ARG:O	14:CN:46:ILE:HG13	1.99	0.62
47:A:110:U:O4	81:A:1933:OHX:N3	2.32	0.62
47:A:1041:G:OP1	81:A:1972:OHX:N3	2.32	0.62
49:C:33:LYS:HA	49:C:43:VAL:HG23	1.81	0.62
51:E:210:GLU:N	51:E:210:GLU:OE2	2.32	0.62
55:I:51:VAL:HG22	55:I:52:ALA:H	1.63	0.62
55:I:71:HIS:CG	55:I:131:PHE:CE2	2.86	0.62
80:h:80:ALA:HB3	80:h:92:TRP:HB2	1.80	0.62
47:sR:868:G:H1	47:sR:960:U:H3	1.44	0.62
47:sR:1353:U:H2'	47:sR:1354:G:H8	1.62	0.62
47:sR:1383:G:O2'	68:d0:35:GLU:OE2	2.16	0.62
53:s5:142:PRO:HG3	53:s5:217:LEU:HD21	1.80	0.62
53:s5:216:GLU:C	53:s5:219:ARG:HD3	2.24	0.62
1:1:2818:U:H5'	1:1:2818:U:H6	1.63	0.62
12:r:76:MET:HE1	12:r:138:VAL:HG11	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:73:ARG:O	16:v:75:VAL:HG22	1.98	0.62
23:5:42:LYS:HE2	23:5:45:GLY:O	1.98	0.62
35:AH:91:ARG:O	35:AH:95:ILE:HG22	1.99	0.62
40:AM:8:ARG:O	40:AM:12:LYS:HG3	1.99	0.62
1:AR:335:G:OP2	27:DA:14:LYS:NZ	2.27	0.62
2:AS:28:C:H5'	13:CM:137:ARG:HG2	1.80	0.62
47:A:1191:U:H4'	64:R:143:ARG:HB3	1.79	0.62
67:U:6:VAL:O	67:U:9:VAL:HG12	1.99	0.62
70:X:86:ILE:HD12	70:X:87:GLU:N	2.11	0.62
47:sR:79:C:OP1	54:s6:159:ARG:NH2	2.32	0.62
47:sR:1795:U:O2	74:d6:10:ARG:NE	2.32	0.62
67:c9:109:GLU:OE2	67:c9:122:ARG:HD2	1.99	0.62
74:d6:10:ARG:HB2	74:d6:34:LYS:HA	1.79	0.62
12:r:48:LEU:HD21	12:r:145:LYS:HB2	1.81	0.62
26:8:135:ILE:O	26:8:139:ILE:HG22	1.98	0.62
1:AR:71:A:OP2	29:DC:67:HIS:NE2	2.32	0.62
1:AR:968:G:H2'	1:AR:969:C:C6	2.34	0.62
1:AR:3157:U:H4'	1:AR:3158:G:H5'	1.80	0.62
43:DQ:48:SER:O	81:DQ:502:OHX:N5	2.32	0.62
47:A:57:G:OP1	72:Z:112:LYS:NZ	2.32	0.62
47:A:820:U:H2'	47:A:821:U:H4'	1.80	0.62
53:G:161:ASP:HB3	76:d:54:LEU:HD11	1.80	0.62
47:sR:848:C:H2'	47:sR:849:C:C6	2.35	0.62
47:sR:1160:A:H2'	47:sR:1161:C:C6	2.33	0.62
47:sR:1579:U:OP2	81:sR:2022:OHX:N3	2.33	0.62
47:sR:1767:G:OP1	47:sR:1770:U:H4'	2.00	0.62
80:Rb:195:HIS:CD2	80:Rb:199:ILE:HG21	2.33	0.62
48:s0:90:ALA:HA	48:s0:95:ALA:HB3	1.80	0.62
55:s7:154:LEU:HD11	55:s7:183:PHE:CD2	2.34	0.62
67:c9:40:SER:OG	67:c9:95:ASP:O	2.13	0.62
1:1:1466:G:O6	81:1:4089:OHX:N5	2.32	0.62
1:1:1834:U:OP2	40:AM:10:LYS:NZ	2.25	0.62
4:j:176:ASP:O	44:AQ:25:GLN:NE2	2.31	0.62
28:AA:9:LYS:O	28:AA:25:ILE:HD12	2.00	0.62
1:AR:912:G:OP2	4:CD:9:ARG:NH2	2.32	0.62
5:CE:218:ILE:HG12	5:CE:276:THR:HG23	1.80	0.62
8:CH:35:VAL:O	8:CH:38:THR:OG1	2.12	0.62
26:CZ:34:LEU:HD12	26:CZ:35:PRO:HD2	1.81	0.62
45:sM:54:PRO:HG2	45:sM:59:GLY:HA2	1.81	0.62
47:A:476:U:H2'	78:f:31:LYS:HG2	1.82	0.62
47:A:585:A:H2'	47:A:586:G:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:C:195:LYS:O	49:C:199:ASN:ND2	2.33	0.62
63:c5:9:LYS:O	63:c5:10:ARG:HD3	1.98	0.62
69:d1:45:ALA:O	69:d1:47:PRO:HD3	2.00	0.62
73:d5:49:ARG:NH1	73:d5:53:GLU:OE2	2.33	0.62
78:e0:63:GLN:HE21	78:e0:63:GLN:HA	1.64	0.62
1:l:1317:A:O2'	1:l:1318:A:H3'	1.99	0.62
6:l:35:VAL:HG21	6:l:244:LEU:HD21	1.81	0.62
7:m:67:SER:OG	7:m:72:ASP:OD1	2.13	0.62
11:q:105:GLU:HA	11:q:109:ALA:HB3	1.82	0.62
17:w:23:VAL:HB	17:w:84:LEU:HD21	1.80	0.62
37:AJ:55:ARG:O	37:AJ:58:ILE:HG13	2.00	0.62
1:AR:662:U:H2'	1:AR:663:C:C6	2.33	0.62
1:AR:1473:G:OP2	20:CT:8:LYS:NZ	2.32	0.62
1:AR:2177:G:O6	81:AR:3475:OHX:N1	2.33	0.62
1:AR:3224:G:O6	81:AR:3498:OHX:N2	2.33	0.62
10:CJ:108:ARG:O	10:CJ:112:GLU:HG2	1.99	0.62
17:CQ:62:THR:H	17:CQ:69:GLY:HA3	1.65	0.62
18:CR:25:SER:HB3	18:CR:28:ASN:HB2	1.80	0.62
47:A:38:C:C2'	47:A:39:A:H5'	2.29	0.62
47:sR:4:C:O2'	57:s9:17:ARG:NH2	2.28	0.62
47:sR:423:G:OP1	81:sR:1913:OHX:N3	2.33	0.62
47:sR:916:U:H3	62:c4:41:ARG:NH1	1.98	0.62
66:c8:16:ARG:HD2	66:c8:21:ASN:ND2	2.15	0.62
66:c8:101:LEU:O	66:c8:104:ASN:N	2.33	0.62
67:c9:21:PHE:CG	67:c9:135:ILE:HD11	2.35	0.62
72:d4:78:SER:HB3	72:d4:81:GLU:OE2	1.99	0.62
1:l:1675:G:H2'	1:l:1676:A:H8	1.65	0.62
13:s:166:LYS:HE2	13:s:166:LYS:HA	1.80	0.62
19:y:110:ALA:O	19:y:114:ILE:HG13	1.99	0.62
1:AR:550:A:H2'	1:AR:551:A:C8	2.34	0.62
1:AR:1952:G:H5'	1:AR:1953:G:OP2	1.99	0.62
1:AR:2696:A:H2'	1:AR:2697:A:C8	2.35	0.62
11:CK:111:PHE:HD1	11:CK:127:PRO:HA	1.64	0.62
23:CW:33:TYR:HE2	23:CW:63:VAL:HG11	1.64	0.62
37:DK:61:ILE:HD12	37:DK:87:VAL:HG13	1.81	0.62
47:A:532:U:H5''	72:Z:64:PHE:HD1	1.64	0.62
47:A:1585:U:N3	47:A:1611:A:H2	1.92	0.62
49:C:61:LEU:HD13	49:C:64:ARG:HH22	1.64	0.62
80:h:153:GLN:HE21	80:h:202:LEU:H	1.47	0.62
51:s3:17:PHE:CD1	51:s3:77:PHE:HE2	2.17	0.62
67:c9:7:ARG:NH1	67:c9:67:MET:HB3	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2611:U:H2'	1:1:2612:U:C6	2.35	0.62
1:1:2723:U:H2'	1:1:2724:U:C6	2.35	0.62
7:m:60:ILE:HB	7:m:80:SER:HB3	1.82	0.62
13:s:109:HIS:HB3	13:s:123:PHE:O	1.99	0.62
16:v:9:GLU:CG	37:AJ:44:VAL:HG11	2.30	0.62
29:AB:78:LEU:O	29:AB:78:LEU:HG	1.97	0.62
35:AH:98:GLN:O	35:AH:101:VAL:HG22	1.99	0.62
1:AR:409:A:OP2	81:AR:3601:OHX:N3	2.32	0.62
1:AR:543:C:N4	1:AR:548:G:H1	1.97	0.62
10:CJ:57:ARG:O	10:CJ:61:GLN:HG3	1.99	0.62
19:CS:79:LYS:HA	19:CS:136:ASN:ND2	2.14	0.62
28:DB:15:ARG:HD2	28:DB:79:HIS:CD2	2.34	0.62
44:DR:92:ALA:O	49:s1:219:LYS:NZ	2.32	0.62
47:A:1503:A:H2'	47:A:1504:G:O4'	1.99	0.62
50:D:111:VAL:HG22	50:D:139:ILE:HD11	1.82	0.62
50:D:227:PRO:HA	50:D:230:TRP:CE2	2.34	0.62
55:I:11:GLN:NE2	55:I:13:PRO:HG2	2.08	0.62
61:O:37:ILE:HD11	61:O:74:ILE:HG21	1.82	0.62
77:e:20:GLN:HG2	77:e:25:SER:HB2	1.82	0.62
47:sR:831:U:O2'	47:sR:832:U:H5'	1.99	0.62
47:sR:837:G:H2'	47:sR:838:G:H8	1.64	0.62
47:sR:1520:U:O2	81:sR:1935:OHX:N6	2.32	0.62
47:sR:1533:C:H4'	47:sR:1539:G:N1	2.14	0.62
53:s5:116:HIS:O	53:s5:120:ILE:HG13	1.99	0.62
59:c1:93:TYR:HB2	59:c1:100:TYR:HE1	1.65	0.62
66:c8:8:GLN:O	66:c8:10:SER:N	2.33	0.62
67:c9:52:GLY:C	67:c9:56:LYS:HE2	2.24	0.62
1:1:2801:A:O2'	1:1:2802:A:H2'	2.00	0.62
1:AR:66:A:OP2	14:CN:100:ARG:NH1	2.32	0.62
1:AR:3160:U:H2'	1:AR:3161:C:C6	2.34	0.62
13:CM:97:SER:HG	13:CM:99:THR:HG1	1.47	0.62
46:p0:16:ARG:NH2	46:p0:69:ASP:OD2	2.32	0.62
47:A:259:U:OP1	56:J:75:LYS:NZ	2.33	0.62
47:A:732:G:H1'	47:A:734:A:N6	2.15	0.62
52:F:181:VAL:HG12	52:F:227:VAL:HA	1.81	0.62
52:F:185:GLY:HA3	52:F:224:ASN:CG	2.25	0.62
54:H:98:ARG:HD3	54:H:99:GLY:N	2.15	0.62
55:I:30:SER:HB2	55:I:34:LEU:CB	2.27	0.62
64:R:16:ALA:HB2	64:R:72:GLY:HA3	1.81	0.62
69:W:55:LEU:HD11	69:W:69:LEU:HD12	1.81	0.62
75:c:37:CYS:O	75:c:39:GLY:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:240:VAL:HG11	80:h:243:LEU:HD11	1.82	0.62
53:s5:158:GLN:HG3	53:s5:225:ARG:HG2	1.80	0.62
53:s5:208:SER:O	53:s5:212:LYS:N	2.32	0.62
73:d5:49:ARG:HH21	73:d5:69:LEU:HD12	1.65	0.62
1:l:787:G:H2'	1:l:788:C:C6	2.35	0.62
1:l:1768:U:H2'	1:l:1769:G:O4'	2.00	0.62
24:6:89:ASP:OD1	24:6:91:VAL:HG22	2.00	0.62
1:AR:1201:C:OP1	81:AR:3686:OHX:N1	2.33	0.62
1:AR:2615:G:H2'	1:AR:2616:C:H6	1.64	0.62
14:CN:157:ARG:HG2	14:CN:158:ALA:H	1.65	0.62
21:CU:77:VAL:HG21	21:CU:106:LEU:HD13	1.81	0.62
36:DJ:9:LEU:CD2	36:DJ:54:VAL:HG12	2.30	0.62
47:A:1471:A:H2	47:A:1474:G:N3	1.98	0.62
47:A:1769:U:OP2	81:A:1970:OHX:N1	2.33	0.62
60:N:74:LEU:HB2	60:N:75:VAL:HG13	1.80	0.62
68:V:20:ILE:HG13	68:V:95:ALA:O	1.99	0.62
47:sR:924:A:H2'	47:sR:925:G:C8	2.35	0.62
81:sR:1923:OHX:N1	81:sR:1931:OHX:N4	2.47	0.62
80:Rb:193:ILE:HB	51:s3:221:SER:HB2	1.82	0.62
59:c1:33:ARG:NH1	59:c1:51:GLY:O	2.33	0.62
63:c5:69:GLU:OE1	63:c5:70:ASN:ND2	2.27	0.62
1:l:1861:G:O6	81:l:4103:OHX:N3	2.32	0.62
1:l:2593:A:H4'	1:l:2594:C:O5'	2.00	0.62
1:l:2615:G:H2'	1:l:2616:C:C6	2.35	0.62
6:l:104:LYS:HD2	6:l:106:TRP:CZ2	2.35	0.62
24:6:68:GLU:OE1	24:6:68:GLU:N	2.26	0.62
1:AR:518:G:OP2	1:AR:518:G:N2	2.28	0.62
1:AR:980:A:H2'	1:AR:981:U:N1	2.14	0.62
1:AR:2315:G:OP2	81:AR:3472:OHX:N1	2.33	0.62
1:AR:2537:U:H5''	49:s1:226:GLY:HA2	1.80	0.62
16:CP:96:ARG:NH2	16:CP:104:GLU:OE2	2.32	0.62
32:DF:55:LEU:O	32:DF:59:ILE:HG13	1.99	0.62
47:A:523:G:O6	81:A:1916:OHX:N3	2.33	0.62
47:A:775:G:N7	72:Z:11:LYS:NZ	2.48	0.62
47:A:955:A:H5''	61:O:10:GLY:HA3	1.80	0.62
47:A:1511:U:H2'	47:A:1512:G:H8	1.65	0.62
47:A:1600:A:H4'	47:A:1601:G:OP1	2.00	0.62
48:B:119:ARG:NH1	50:D:241:ASP:HA	2.15	0.62
49:C:27:LYS:HG2	49:C:49:ASN:HA	1.80	0.62
52:F:185:GLY:N	52:F:189:LEU:HD12	2.15	0.62
53:G:49:GLU:N	53:G:49:GLU:OE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:O:114:ARG:HH11	61:O:114:ARG:HG2	1.65	0.62
74:b:10:ARG:NH2	74:b:36:ILE:HG23	2.15	0.62
80:h:201:THR:CB	80:h:242:SER:HA	2.29	0.62
47:sR:57:G:OP1	72:d4:112:LYS:NZ	2.33	0.62
47:sR:639:U:OP2	55:s7:119:THR:HG23	2.00	0.62
47:sR:1360:A:C3'	47:sR:1361:U:H4'	2.30	0.62
48:s0:179:ARG:NH1	48:s0:180:GLU:OE2	2.33	0.62
52:s4:18:TRP:HH2	52:s4:31:PRO:HD3	1.63	0.62
53:s5:142:PRO:O	53:s5:162:VAL:HG11	1.99	0.62
21:0:131:LYS:O	21:0:134:ASP:HB2	2.00	0.61
26:8:82:LEU:HD12	26:8:126:LEU:HD21	1.81	0.61
1:AR:1110:U:H2'	1:AR:1111:U:C6	2.35	0.61
2:AS:49:G:N7	7:CG:58:LYS:HG3	2.15	0.61
14:CN:89:TYR:HB2	36:DJ:111:PHE:HE1	1.65	0.61
27:DA:58:VAL:HG12	27:DA:64:LYS:HA	1.80	0.61
34:DH:106:ASN:O	34:DH:106:ASN:ND2	2.34	0.61
47:A:472:U:H2'	47:A:473:A:H8	1.64	0.61
47:A:479:C:H42	47:A:509:G:H1	1.47	0.61
47:A:1297:G:N2	47:A:1300:A:OP2	2.33	0.61
49:C:103:MET:HB3	49:C:215:VAL:CG1	2.30	0.61
52:F:129:VAL:HG12	52:F:156:VAL:CG1	2.29	0.61
63:Q:19:GLY:H	66:T:94:ASP:HA	1.65	0.61
64:R:46:PHE:HA	64:R:49:TYR:HB2	1.81	0.61
66:T:36:LYS:HB3	66:T:105:VAL:HG11	1.82	0.61
67:U:9:VAL:HG11	67:U:14:PHE:CD1	2.36	0.61
68:V:24:ILE:HG23	68:V:91:ILE:HB	1.82	0.61
47:sR:1385:G:N7	81:sR:1976:OHX:N2	2.48	0.61
47:sR:1757:G:O6	81:sR:1903:OHX:N3	2.32	0.61
53:s5:161:ASP:O	76:d8:45:LYS:N	2.33	0.61
1:1:1233:G:N2	1:1:1255:C:H42	1.98	0.61
1:1:3361:G:O6	81:1:3610:OHX:N3	2.34	0.61
3:4:155:A:OP1	10:p:185:ARG:NH1	2.33	0.61
10:p:24:ASN:N	10:p:27:THR:HG1	1.98	0.61
11:q:53:ILE:HD13	15:u:7:VAL:HG21	1.80	0.61
13:s:49:LYS:HE2	45:i:26:VAL:HG21	1.82	0.61
17:w:89:SER:O	17:w:92:THR:OG1	2.18	0.61
28:AA:128:GLN:CD	28:AA:128:GLN:H	2.07	0.61
21:CU:2:ALA:HB3	21:CU:32:SER:CB	2.30	0.61
23:CW:99:LYS:HD2	23:CW:100:THR:H	1.66	0.61
43:DQ:28:TYR:HB3	43:DQ:69:VAL:HB	1.81	0.61
47:A:278:U:OP1	47:A:279:G:N2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:333:A:OP1	56:J:31:ARG:NH2	2.33	0.61
47:A:722:G:H3'	47:A:723:G:H5'	1.82	0.61
47:A:917:U:OP2	81:A:2134:OHX:N2	2.33	0.61
47:A:1015:U:OP1	81:A:2111:OHX:N4	2.33	0.61
49:C:103:MET:HB3	49:C:215:VAL:HG12	1.83	0.61
49:C:145:LYS:CB	49:C:149:GLN:HE21	2.14	0.61
53:G:118:LEU:HA	53:G:121:ILE:HG13	1.82	0.61
60:N:31:VAL:CG1	60:N:132:GLU:HG2	2.26	0.61
47:sR:696:C:H4'	47:sR:697:C:H6	1.65	0.61
47:sR:762:A:OP1	57:s9:79:ARG:NH1	2.33	0.61
80:Rb:149:ASP:HB2	80:Rb:175:ASP:HB3	1.80	0.61
56:s8:57:ALA:HB2	56:s8:177:GLY:HA2	1.82	0.61
66:c8:116:LEU:HA	66:c8:119:ILE:HG22	1.82	0.61
68:d0:55:PRO:HA	68:d0:91:ILE:HG22	1.82	0.61
9:o:26:VAL:HG13	9:o:27:ALA:H	1.64	0.61
1:AR:911:C:N4	4:CD:3:ARG:HD3	2.15	0.61
1:AR:1764:U:H3'	1:AR:1765:U:C4'	2.31	0.61
17:CQ:158:ALA:O	17:CQ:162:VAL:HG12	2.01	0.61
47:A:319:U:OP1	56:J:11:ARG:NH2	2.32	0.61
47:A:1228:G:OP1	60:N:119:SER:OG	2.18	0.61
53:G:159:ALA:HB3	53:G:225:ARG:HD2	1.82	0.61
53:G:172:ILE:O	53:G:176:THR:HG23	1.99	0.61
60:N:66:VAL:HG22	60:N:67:THR:H	1.66	0.61
68:V:20:ILE:HD11	68:V:94:GLU:HA	1.82	0.61
69:W:70:ASN:HB3	69:W:82:VAL:HG11	1.83	0.61
80:h:201:THR:HG21	80:h:243:LEU:HD13	1.81	0.61
47:sR:150:U:H2'	47:sR:151:G:O4'	1.99	0.61
47:sR:1392:U:H2'	47:sR:1393:C:C6	2.34	0.61
47:sR:1488:G:OP2	51:s3:8:LYS:HE3	2.00	0.61
47:sR:1591:C:H2'	47:sR:1592:A:H8	1.63	0.61
51:s3:79:TYR:HE2	51:s3:84:ILE:HD13	1.65	0.61
53:s5:51:VAL:HG21	53:s5:130:ILE:HD13	1.82	0.61
55:s7:114:ARG:O	55:s7:117:THR:HG22	1.98	0.61
57:s9:83:VAL:C	57:s9:107:ARG:HH12	2.07	0.61
61:c3:151:ASN:HA	81:c3:201:OHX:N6	2.15	0.61
65:c7:28:PHE:CE1	65:c7:32:LYS:HB2	2.35	0.61
1:1:1095:U:C2	22:2:129:LYS:HG3	2.36	0.61
1:1:2767:U:OP1	43:AP:34:SER:HB3	2.01	0.61
2:3:112:G:OP2	81:3:204:OHX:N3	2.33	0.61
1:AR:863:C:OP1	81:AR:3418:OHX:N1	2.33	0.61
1:AR:1486:G:O6	81:AR:3580:OHX:N4	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2268:U:H2'	1:AR:2269:U:H6	1.65	0.61
3:AT:83:C:H1'	3:AT:85:G:H21	1.65	0.61
10:CJ:45:ASN:ND2	10:CJ:47:SER:H	1.98	0.61
21:CU:131:LYS:O	21:CU:134:ASP:HB2	2.01	0.61
44:DR:3:LYS:HD3	44:DR:4:ARG:N	2.13	0.61
47:A:901:G:H2'	47:A:902:G:C8	2.36	0.61
48:B:104:PRO:HB3	48:B:131:GLN:HG2	1.82	0.61
80:Rb:61:PHE:C	80:Rb:62:LYS:HD3	2.25	0.61
48:s0:185:ARG:HB2	69:d1:45:ALA:HB3	1.82	0.61
1:1:1743:G:H2'	1:1:1744:G:H8	1.65	0.61
1:1:2234:G:O6	81:1:4120:OHX:N6	2.33	0.61
34:AG:67:MET:HE1	34:AG:90:PRO:HD3	1.82	0.61
1:AR:2152:A:H2'	1:AR:2153:U:H6	1.66	0.61
8:CH:93:VAL:O	8:CH:96:VAL:HG22	1.99	0.61
9:CI:191:VAL:HG13	9:CI:195:PHE:CD1	2.35	0.61
24:CX:126:TRP:HB2	24:CX:129:VAL:CG1	2.29	0.61
28:DB:110:ALA:O	28:DB:114:VAL:HG22	2.00	0.61
47:A:931:C:OP1	74:b:70:LYS:NZ	2.28	0.61
60:N:124:LYS:O	60:N:125:ASN:ND2	2.33	0.61
61:O:46:THR:N	61:O:49:GLN:OE1	2.34	0.61
64:R:46:PHE:O	64:R:50:GLU:HG3	2.00	0.61
47:sR:108:A:H2'	47:sR:109:G:C8	2.35	0.61
47:sR:703:G:H2'	47:sR:704:C:C6	2.36	0.61
80:Rb:102:ARG:HD3	80:Rb:102:ARG:H	1.66	0.61
58:c0:29:GLN:NE2	58:c0:31:LYS:O	2.28	0.61
71:d3:89:ASN:HB2	71:d3:92:CYS:SG	2.40	0.61
1:1:1682:U:C5	23:5:85:LYS:HD3	2.36	0.61
1:1:2674:A:H5''	13:s:105:GLY:HA3	1.81	0.61
1:1:3070:A:OP1	20:z:62:ARG:NH1	2.32	0.61
4:j:10:LYS:HA	4:j:16:PHE:CD2	2.36	0.61
8:n:31:ARG:NH2	34:AG:107:ILE:O	2.32	0.61
28:AA:10:VAL:HB	28:AA:83:THR:HG21	1.82	0.61
36:AI:85:THR:CG2	36:AI:88:LEU:H	2.12	0.61
37:AJ:74:LYS:HD2	37:AJ:80:PHE:HD1	1.65	0.61
1:AR:67:A:OP1	81:AR:3455:OHX:N2	2.34	0.61
1:AR:2842:U:OP1	1:AR:2844:C:N4	2.33	0.61
1:AR:3112:G:O2'	11:CK:70:THR:HB	1.99	0.61
19:CS:100:THR:HB	19:CS:120:GLU:HB2	1.83	0.61
23:CW:35:LYS:HA	23:CW:38:ILE:HG12	1.81	0.61
47:A:181:A:H2'	47:A:182:A:C8	2.35	0.61
47:A:1169:G:O2'	47:A:1576:A:N6	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B:93:THR:HB	48:B:95:ALA:H	1.64	0.61
49:C:120:LEU:HD12	49:C:121:ILE:H	1.65	0.61
70:X:15:ASN:HD21	70:X:72:CYS:H	1.48	0.61
80:h:16:HIS:CE1	80:h:37:SER:HB3	2.36	0.61
80:h:123:ILE:HD13	80:h:154:VAL:HG13	1.82	0.61
64:c6:28:LEU:N	64:c6:64:ASP:OD1	2.31	0.61
1:l:1381:A:OP1	6:l:197:ARG:NH1	2.34	0.61
1:AR:86:G:O2'	1:AR:98:G:O6	2.16	0.61
1:AR:1728:G:H4'	1:AR:1729:A:H5''	1.82	0.61
1:AR:2175:U:O2	4:CD:25:GLY:HA2	2.00	0.61
1:AR:3295:A:H2'	1:AR:3296:A:H8	1.65	0.61
7:CG:51:LEU:HB2	7:CG:144:VAL:HG11	1.82	0.61
14:CN:158:ALA:HA	29:DC:97:GLU:HA	1.82	0.61
16:CP:73:ARG:HB3	16:CP:89:VAL:HG13	1.83	0.61
40:DN:23:LEU:HD22	40:DN:24:PRO:HD2	1.83	0.61
47:A:1379:C:H1'	64:R:19:VAL:HG21	1.82	0.61
48:B:178:ALA:O	48:B:181:VAL:HG22	2.01	0.61
50:D:121:VAL:O	50:D:125:ILE:HG13	2.01	0.61
50:D:144:TRP:CE2	50:D:173:PRO:HG3	2.35	0.61
64:R:94:GLN:OE1	80:h:60:SER:OG	2.08	0.61
74:b:36:ILE:CD1	74:b:73:TYR:HB2	2.26	0.61
47:sR:330:G:O2'	56:s8:33:PRO:HB3	2.00	0.61
49:s1:181:LEU:O	49:s1:185:THR:HG22	2.01	0.61
51:s3:7:LYS:CE	68:d0:27:THR:HG21	2.31	0.61
52:s4:12:LEU:H	52:s4:12:LEU:HD12	1.64	0.61
61:c3:112:LYS:O	61:c3:116:ILE:HD12	2.00	0.61
77:d9:33:LYS:O	77:d9:36:LEU:HD12	1.99	0.61
1:l:2572:C:H5''	28:AA:60:LYS:NZ	2.15	0.61
8:n:40:LEU:HB3	8:n:84:VAL:HG21	1.83	0.61
20:z:155:LEU:HA	20:z:158:GLU:HG2	1.82	0.61
1:AR:114:A:H2'	1:AR:115:A:O4'	2.00	0.61
1:AR:994:G:O6	81:AR:3647:OHX:N1	2.34	0.61
14:CN:37:ASN:O	14:CN:41:THR:HG23	1.99	0.61
15:CO:32:LEU:HD11	15:CO:94:TRP:CG	2.35	0.61
23:CW:104:ARG:HG3	23:CW:105:LEU:N	2.16	0.61
32:DF:23:VAL:O	32:DF:28:ARG:NH1	2.33	0.61
47:A:151:G:O6	72:Z:124:ARG:NH2	2.33	0.61
47:A:894:U:H2'	47:A:895:G:C8	2.35	0.61
47:A:1673:G:H2'	47:A:1674:C:H6	1.66	0.61
48:B:50:VAL:HA	48:B:53:THR:HG23	1.82	0.61
49:C:105:PHE:CD1	49:C:213:ARG:HA	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G:182:ALA:O	53:G:186:ASN:ND2	2.33	0.61
55:I:114:ARG:O	55:I:117:THR:HG22	2.00	0.61
64:R:77:GLN:O	64:R:81:ILE:HG23	2.00	0.61
48:s0:9:LEU:HD22	48:s0:10:THR:H	1.66	0.61
48:s0:169:SER:O	48:s0:169:SER:OG	2.15	0.61
49:s1:92:GLN:NE2	49:s1:229:MET:HE1	2.16	0.61
49:s1:109:LYS:O	49:s1:112:SER:OG	2.17	0.61
52:s4:161:LYS:HB3	52:s4:170:THR:O	2.00	0.61
55:s7:37:GLU:HG2	55:s7:38:LEU:HD12	1.83	0.61
55:s7:126:LEU:HD12	55:s7:126:LEU:H	1.65	0.61
3:4:38:U:C4	36:AI:89:ARG:HD3	2.35	0.61
5:k:77:THR:HG23	5:k:326:GLY:O	2.01	0.61
13:s:16:LYS:HG3	13:s:130:VAL:CG1	2.31	0.61
39:AL:38:PHE:CE2	39:AL:57:ASN:HB3	2.35	0.61
45:i:139:GLU:N	45:i:139:GLU:OE2	2.34	0.61
1:AR:1257:C:H2'	1:AR:1258:U:O4'	2.00	0.61
1:AR:1284:C:O2'	1:AR:1285:G:H5'	2.00	0.61
1:AR:2406:C:H2'	1:AR:2407:C:C6	2.35	0.61
12:CL:14:ASN:O	12:CL:128:ARG:NH2	2.34	0.61
46:p0:33:VAL:HG23	46:p0:37:GLN:OE1	2.00	0.61
46:p0:42:ARG:O	46:p0:46:ARG:HG2	2.01	0.61
47:A:1622:G:H2'	47:A:1623:C:C6	2.36	0.61
47:A:1669:U:OP2	81:A:2116:OHX:N1	2.34	0.61
50:D:185:LYS:O	50:D:189:GLN:HG3	2.01	0.61
58:L:46:LEU:O	58:L:50:THR:HG23	2.00	0.61
80:h:164:ASP:OD1	80:h:166:SER:N	2.31	0.61
53:s5:81:ARG:NH2	76:d8:47:PRO:HB3	2.16	0.61
53:s5:170:GLN:O	53:s5:174:LEU:HG	2.00	0.61
78:e0:50:VAL:HG12	78:e0:52:GLY:N	2.10	0.61
1:1:943:U:H3'	29:AB:13:GLY:HA2	1.83	0.61
1:1:3251:U:H2'	1:1:3252:G:C8	2.35	0.61
81:1:4105:OHX:N1	9:o:217:PRO:HA	2.15	0.61
6:l:36:HIS:O	6:l:40:THR:HG23	1.99	0.61
15:u:24:LYS:HD3	15:u:64:VAL:HG23	1.82	0.61
28:AA:61:LYS:CD	28:AA:61:LYS:H	2.14	0.61
1:AR:1295:G:OP1	21:CU:84:ARG:HG3	2.01	0.61
1:AR:1820:U:H4'	1:AR:1821:U:O5'	2.00	0.61
11:CK:7:GLU:HA	11:CK:68:LEU:HD21	1.82	0.61
19:CS:36:LEU:O	19:CS:40:THR:OG1	2.12	0.61
28:DB:95:VAL:HG11	28:DB:113:VAL:CG1	2.30	0.61
33:DG:19:ARG:HD2	33:DG:33:ARG:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:p0:7:LYS:HD3	46:p0:10:GLU:OE2	2.01	0.61
47:A:197:A:H2'	47:A:198:A:C8	2.35	0.61
47:A:218:A:O2'	47:A:219:A:OP1	2.18	0.61
47:A:472:U:H5''	57:K:11:THR:HG23	1.82	0.61
47:A:486:G:H2'	47:A:487:G:O4'	2.01	0.61
47:A:1524:A:H2'	47:A:1525:A:C8	2.36	0.61
47:A:1524:A:N3	47:A:1590:G:O2'	2.26	0.61
49:C:217:LEU:HD13	49:C:218:LEU:N	2.16	0.61
50:D:50:ILE:HD11	50:D:239:PRO:CG	2.31	0.61
54:H:57:ASP:HA	54:H:106:LEU:HA	1.82	0.61
60:N:31:VAL:HA	60:N:34:THR:HG23	1.82	0.61
70:X:70:ASN:ND2	70:X:130:TYR:O	2.33	0.61
47:sR:517:U:O4	81:sR:1958:OHX:N4	2.34	0.61
50:s2:122:ALA:O	50:s2:125:ILE:HG13	2.00	0.61
51:s3:75:LYS:HD2	58:c0:34:GLU:OE2	2.01	0.61
51:s3:122:VAL:O	51:s3:126:VAL:HG12	2.01	0.61
1:1:155:G:H5''	1:1:156:G:C8	2.36	0.60
1:1:1447:G:H3'	18:x:67:ILE:HD11	1.82	0.60
14:t:166:ALA:HB1	29:AB:147:LEU:HD21	1.81	0.60
20:z:172:ARG:HH11	20:z:172:ARG:HG3	1.66	0.60
38:AK:18:LEU:HD23	38:AK:25:ARG:HB2	1.83	0.60
1:AR:1013:G:N7	81:AR:3602:OHX:N3	2.49	0.60
11:CK:12:VAL:HB	11:CK:51:GLN:HA	1.83	0.60
28:DB:54:THR:HG22	28:DB:57:HIS:CE1	2.36	0.60
47:A:1164:G:H2'	47:A:1165:G:H8	1.66	0.60
47:A:1358:G:H2'	47:A:1359:C:C6	2.36	0.60
48:B:177:LEU:O	48:B:181:VAL:HG13	2.00	0.60
49:C:168:ILE:HG22	49:C:172:LEU:CD2	2.31	0.60
51:E:120:TYR:HA	51:E:123:VAL:HG22	1.83	0.60
62:P:79:VAL:HG22	62:P:80:HIS:N	2.16	0.60
71:Y:103:LEU:HD22	71:Y:126:LYS:HD3	1.83	0.60
73:a:74:SER:HA	73:a:77:ARG:NH2	2.16	0.60
80:h:13:LEU:HD11	80:h:55:GLY:HA3	1.82	0.60
47:sR:228:G:N2	47:sR:237:C:N3	2.49	0.60
48:s0:85:ALA:HA	48:s0:202:TYR:CD2	2.36	0.60
49:s1:88:VAL:HG21	49:s1:96:LEU:HD12	1.83	0.60
53:s5:187:ILE:H	53:s5:187:ILE:HD12	1.65	0.60
55:s7:33:GLU:N	55:s7:33:GLU:OE1	2.34	0.60
63:c5:18:ARG:HH21	63:c5:38:PRO:HG3	1.66	0.60
1:1:385:A:H2'	1:1:386:A:C8	2.36	0.60
1:1:1464:G:O6	81:1:3616:OHX:N5	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1899:G:N7	81:1:4097:OHX:N1	2.49	0.60
3:4:10:A:H2'	3:4:11:C:C6	2.35	0.60
12:r:188:GLY:HA3	12:r:216:TYR:CD1	2.36	0.60
14:t:46:ILE:HG22	14:t:47:ALA:CB	2.29	0.60
20:z:151:ARG:O	20:z:155:LEU:HG	2.01	0.60
40:AM:9:ILE:O	40:AM:13:MET:HG3	2.02	0.60
43:AP:35:LEU:HB2	43:AP:40:LYS:HG2	1.82	0.60
1:AR:1019:G:H1	1:AR:1033:U:H3	1.48	0.60
10:CJ:45:ASN:HD22	10:CJ:47:SER:H	1.49	0.60
20:CT:89:LEU:HD12	20:CT:90:PRO:HD2	1.83	0.60
23:CW:38:ILE:HG22	23:CW:56:VAL:HG11	1.82	0.60
29:DC:45:MET:O	29:DC:49:HIS:N	2.35	0.60
47:A:1511:U:H2'	47:A:1512:G:C8	2.35	0.60
47:A:1794:A:H1'	74:b:79:ILE:HD12	1.83	0.60
62:P:17:ALA:CB	62:P:81:VAL:HA	2.28	0.60
80:h:197:SER:HB3	80:h:216:LYS:H	1.66	0.60
80:Rb:19:TRP:HB2	80:Rb:38:ARG:HG3	1.83	0.60
55:s7:31:SER:HB3	55:s7:35:LYS:HG2	1.82	0.60
61:c3:47:PRO:HG3	61:c3:72:MET:SD	2.42	0.60
22:2:105:PHE:O	22:2:109:VAL:HG13	2.00	0.60
28:AA:33:SER:HB3	28:AA:36:HIS:O	2.01	0.60
28:AA:72:ILE:CD1	28:AA:111:LYS:HG2	2.32	0.60
1:AR:2213:A:H2'	1:AR:2214:A:H8	1.66	0.60
1:AR:2261:G:HO2'	1:AR:2263:C:H41	1.48	0.60
2:AS:4:U:H2'	2:AS:5:G:H8	1.65	0.60
7:CG:256:THR:O	7:CG:258:LYS:HD2	2.01	0.60
47:A:1628:U:H2'	47:A:1629:G:H8	1.65	0.60
60:N:71:ILE:HA	60:N:74:LEU:HG	1.83	0.60
60:N:79:ALA:O	60:N:86:VAL:HB	2.01	0.60
61:O:53:LEU:HD23	75:c:52:THR:HG21	1.83	0.60
62:P:117:ASP:CG	62:P:119:THR:HG1	2.09	0.60
80:h:225:LEU:O	80:h:228:LYS:HG3	2.01	0.60
47:sR:241:U:H2'	47:sR:242:U:C5	2.36	0.60
47:sR:263:C:H4'	47:sR:292:U:H5'	1.83	0.60
47:sR:489:C:O2'	47:sR:490:C:O5'	2.17	0.60
47:sR:683:C:H5'	47:sR:684:A:OP2	2.01	0.60
47:sR:1474:G:H2'	47:sR:1475:A:H8	1.65	0.60
47:sR:1564:U:H2'	47:sR:1565:C:C6	2.36	0.60
62:c4:99:GLN:HG2	74:d6:46:GLU:HG2	1.83	0.60
65:c7:65:PRO:HB3	65:c7:74:GLN:HE22	1.66	0.60
1:1:1639:C:OP2	35:AH:74:ARG:NH2	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3118:C:H4'	41:AN:106:ARG:NH1	2.08	0.60
1:1:3192:U:OP2	17:w:176:LYS:NZ	2.35	0.60
6:l:299:ILE:HG22	6:l:300:ARG:O	2.00	0.60
10:p:156:ASP:OD1	10:p:156:ASP:N	2.34	0.60
32:AE:19:ARG:HB3	32:AE:35:GLU:HG2	1.83	0.60
33:AF:9:ILE:HG23	33:AF:63:THR:HB	1.82	0.60
3:AT:87:G:OP2	36:DJ:7:TYR:OH	2.19	0.60
7:CG:119:TYR:CZ	7:CG:135:VAL:HG13	2.36	0.60
12:CL:47:PRO:O	12:CL:172:GLY:N	2.33	0.60
35:DI:109:THR:HA	35:DI:112:ALA:HB3	1.82	0.60
47:A:223:U:H2'	47:A:224:C:C6	2.36	0.60
47:A:736:C:H42	47:A:737:A:H62	1.48	0.60
47:A:927:C:H2'	47:A:928:U:H6	1.65	0.60
47:A:1130:G:OP2	81:A:1930:OHX:N5	2.34	0.60
49:C:65:VAL:HG21	49:C:85:LYS:HG3	1.84	0.60
49:C:199:ASN:O	49:C:202:LYS:HE2	2.01	0.60
52:F:118:GLU:HA	52:F:121:TYR:HE1	1.66	0.60
61:O:127:ARG:O	61:O:131:THR:HG23	2.01	0.60
1:1:2244:A:OP1	4:j:243:THR:OG1	2.19	0.60
2:3:118:A:H5''	7:m:253:PHE:HZ	1.66	0.60
45:i:84:LYS:HD2	45:i:85:SER:H	1.66	0.60
1:AR:618:C:O2'	1:AR:620:U:O2	2.16	0.60
1:AR:2683:U:H2'	1:AR:2684:C:C6	2.36	0.60
1:AR:3026:G:N7	81:AR:3440:OHX:N6	2.49	0.60
1:AR:3033:A:H2'	1:AR:3034:C:H6	1.65	0.60
39:DM:17:ARG:O	39:DM:20:VAL:HG22	2.02	0.60
47:A:1613:U:H2'	47:A:1614:A:H5''	1.82	0.60
49:C:69:CYS:SG	62:P:114:ARG:NH2	2.75	0.60
51:E:40:ARG:HH22	68:V:110:PRO:CD	2.11	0.60
57:K:175:ARG:HA	57:K:178:ALA:HB3	1.83	0.60
66:T:41:ARG:HH22	67:U:36:ILE:HG22	1.67	0.60
70:X:30:SER:O	70:X:30:SER:OG	2.16	0.60
47:sR:1223:A:H2'	47:sR:1224:A:H8	1.65	0.60
47:sR:1360:A:H3'	47:sR:1361:U:H4'	1.82	0.60
80:Rb:267:PRO:HD2	80:Rb:269:TYR:HE1	1.67	0.60
53:s5:20:PHE:CG	53:s5:35:GLN:HG3	2.36	0.60
1:1:829:U:H3	1:1:895:A:H62	1.49	0.60
1:1:2539:C:H5'	1:1:2541:U:O4	2.02	0.60
5:k:79:VAL:HG11	5:k:338:LEU:HD11	1.83	0.60
12:r:72:ALA:HB2	12:r:155:ALA:HB2	1.83	0.60
45:i:77:THR:HG22	45:i:79:SER:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:126:GLU:HA	7:CG:196:ARG:HD3	1.83	0.60
11:CK:73:SER:HA	11:CK:76:ASP:HB2	1.84	0.60
14:CN:55:ARG:O	14:CN:115:ARG:NH2	2.34	0.60
47:A:1338:C:H1'	47:A:1410:A:C4	2.37	0.60
48:B:20:ALA:HB1	48:B:169:SER:HB3	1.82	0.60
52:F:26:CYS:HB2	57:K:2:PRO:O	2.01	0.60
56:J:117:TYR:CD2	56:J:146:ARG:HB3	2.37	0.60
60:N:63:VAL:HG11	60:N:94:ALA:H	1.66	0.60
70:X:104:LEU:HB2	70:X:124:LYS:O	2.02	0.60
55:s7:31:SER:HB3	55:s7:35:LYS:N	2.15	0.60
55:s7:44:LYS:HE3	55:s7:63:PRO:HA	1.83	0.60
73:d5:74:SER:HA	73:d5:77:ARG:HH21	1.66	0.60
1:l:2748:A:O3'	7:m:48:LYS:NZ	2.34	0.60
1:l:3193:C:H2'	1:l:3194:C:O4'	2.01	0.60
2:3:3:U:H2'	2:3:4:U:C6	2.37	0.60
5:k:60:LEU:HD21	5:k:62:ARG:HB2	1.83	0.60
15:u:88:ALA:O	15:u:93:LYS:NZ	2.34	0.60
25:7:9:SER:O	25:7:53:VAL:HG12	2.01	0.60
1:AR:585:A:H2'	1:AR:586:C:C6	2.36	0.60
1:AR:2180:G:H2'	1:AR:2181:C:C6	2.37	0.60
1:AR:2566:C:H2'	1:AR:2567:C:C6	2.36	0.60
10:CJ:56:VAL:O	10:CJ:60:ARG:HG3	2.01	0.60
37:DK:97:SER:HB2	37:DK:98:ARG:HH11	1.65	0.60
39:DM:12:LEU:O	39:DM:16:ARG:HG3	2.00	0.60
39:DM:26:LYS:NZ	39:DM:28:ASN:OD1	2.31	0.60
47:A:649:U:O2'	47:A:650:U:O5'	2.15	0.60
47:A:1566:U:OP1	66:T:39:GLY:HA3	2.02	0.60
48:B:26:ALA:HB3	48:B:149:LEU:HB2	1.84	0.60
48:B:153:SER:OG	69:W:63:GLY:O	2.20	0.60
52:F:100:ARG:HH21	52:F:122:LYS:HA	1.65	0.60
57:K:162:SER:O	57:K:167:ALA:HB2	2.02	0.60
58:L:60:SER:HB3	58:L:65:TYR:HE2	1.67	0.60
62:P:117:ASP:OD1	62:P:118:VAL:N	2.35	0.60
74:b:84:VAL:HG13	74:b:85:ARG:N	2.17	0.60
76:d:9:LEU:O	76:d:32:PHE:HA	2.01	0.60
47:sR:871:G:H2'	47:sR:872:G:C8	2.36	0.60
47:sR:990:C:OP2	81:sR:1975:OHX:N2	2.35	0.60
49:s1:35:PRO:HB3	49:s1:231:LEU:HD21	1.82	0.60
49:s1:135:LEU:HD22	49:s1:217:LEU:HD12	1.83	0.60
50:s2:125:ILE:O	50:s2:128:GLY:N	2.33	0.60
54:s6:199:GLN:HA	54:s6:202:ARG:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:c0:25:LYS:HB2	58:c0:64:TYR:CE2	2.36	0.60
1:1:870:G:N7	81:1:3445:OHX:N6	2.48	0.60
1:1:1180:A:OP1	34:AG:78:SER:OG	2.19	0.60
1:1:1213:G:H4'	21:0:90:MET:HG3	1.84	0.60
1:1:1225:A:H2'	1:1:1226:G:C8	2.37	0.60
5:k:35:ASP:OD2	5:k:37:ARG:NH1	2.35	0.60
11:q:91:ARG:HG2	11:q:143:GLU:HG3	1.84	0.60
1:AR:1659:U:H2'	1:AR:1660:C:C6	2.36	0.60
11:CK:129:ARG:NH1	11:CK:160:ASP:OD2	2.32	0.60
47:A:405:C:O2'	54:H:92:ARG:O	2.18	0.60
47:A:1611:A:O2'	53:G:95:ASN:O	2.20	0.60
66:T:91:ASP:OD1	66:T:92:ILE:N	2.34	0.60
71:Y:109:ARG:HD3	71:Y:114:LYS:HA	1.81	0.60
80:h:90:ARG:HD2	80:h:92:TRP:CZ2	2.36	0.60
80:h:197:SER:CB	80:h:216:LYS:H	2.15	0.60
55:s7:73:VAL:HG12	55:s7:76:LYS:NZ	2.17	0.60
58:c0:40:LEU:H	58:c0:40:LEU:HD12	1.67	0.60
58:c0:77:ARG:HD3	58:c0:83:PRO:HA	1.82	0.60
64:c6:82:ARG:NH1	64:c6:114:ARG:HB2	2.09	0.60
2:3:4:U:H2'	2:3:5:G:H8	1.66	0.60
12:r:73:ASN:O	12:r:77:THR:HG23	2.02	0.60
24:6:53:SER:O	24:6:81:GLN:NE2	2.35	0.60
35:AH:84:CYS:O	35:AH:88:ARG:HG2	2.02	0.60
1:AR:2737:C:OP1	22:CV:70:SER:OG	2.20	0.60
1:AR:3163:A:H2'	1:AR:3164:C:H5'	1.84	0.60
42:DP:6:ARG:NH2	47:sR:1112:G:OP1	2.34	0.60
47:A:764:U:O4	81:A:1967:OHX:N4	2.34	0.60
47:A:982:U:OP1	81:A:2132:OHX:N5	2.34	0.60
48:B:200:ASP:HA	48:B:203:PHE:CG	2.37	0.60
65:S:43:SER:OG	65:S:46:LEU:HB2	2.01	0.60
73:a:79:ALA:O	73:a:83:LEU:HD12	2.02	0.60
73:a:84:GLU:HA	73:a:89:ILE:HD11	1.84	0.60
80:h:13:LEU:HB3	80:h:310:ILE:HG12	1.82	0.60
47:sR:512:A:OP2	57:s9:173:ALA:N	2.34	0.60
47:sR:729:G:O2'	47:sR:730:G:O5'	2.13	0.60
47:sR:735:C:H2'	47:sR:736:C:C6	2.37	0.60
47:sR:1713:G:H2'	47:sR:1714:A:C8	2.35	0.60
80:Rb:93:ASP:HB3	80:Rb:96:THR:HG22	1.84	0.60
51:s3:76:ARG:C	51:s3:77:PHE:HD1	2.09	0.60
52:s4:12:LEU:HD11	57:s9:4:ALA:HB2	1.83	0.60
53:s5:42:LEU:HD22	53:s5:47:SER:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:s7:40:PRO:O	55:s7:42:GLN:NE2	2.35	0.60
63:c5:44:ARG:O	63:c5:48:GLY:N	2.31	0.60
71:d3:70:LYS:HB3	71:d3:93:LEU:HD13	1.83	0.60
1:1:1621:A:H2'	1:1:1622:U:C6	2.36	0.60
1:1:1754:G:H5''	81:1:3608[A]:OHX:N2	2.16	0.60
5:k:187:SER:OG	5:k:190:GLU:HG3	2.01	0.60
25:7:6:ASP:HB3	25:7:10:GLY:N	2.16	0.60
28:AA:23:VAL:HG12	28:AA:45:GLY:HA3	1.84	0.60
31:AD:13:LYS:HB3	31:AD:100:ILE:CG2	2.32	0.60
1:AR:92:G:H5'	1:AR:93:C:H5''	1.82	0.60
1:AR:3228:C:H4'	1:AR:3229:G:O5'	2.02	0.60
5:CE:56:ILE:HG22	5:CE:74:GLU:HB2	1.84	0.60
18:CR:25:SER:O	18:CR:29:THR:HG23	2.01	0.60
18:CR:108:ASP:N	18:CR:152:GLU:OE2	2.33	0.60
27:DA:32:SER:HA	27:DA:49:PRO:HA	1.82	0.60
37:DK:4:LYS:HG2	37:DK:14:GLY:HA3	1.83	0.60
47:A:186:C:N3	47:A:199:G:N2	2.49	0.60
47:A:495:C:H3'	47:A:496:G:C4'	2.32	0.60
47:A:637:C:O2	55:I:114:ARG:NH1	2.35	0.60
66:T:26:ILE:HG23	66:T:31:ALA:HB2	1.84	0.60
66:T:69:ILE:HG22	66:T:73:MET:HE2	1.84	0.60
71:Y:37:ALA:O	71:Y:41:SER:OG	2.20	0.60
72:Z:128:LYS:HG3	72:Z:131:ARG:HH12	1.66	0.60
73:a:73:GLY:HA2	73:a:76:ALA:HB3	1.83	0.60
74:b:75:VAL:HG13	74:b:79:ILE:HG13	1.82	0.60
47:sR:885:G:H2'	47:sR:886:U:C6	2.37	0.60
53:s5:159:ALA:HB2	53:s5:221:ALA:O	2.02	0.60
55:s7:63:PRO:HD2	55:s7:66:SER:OG	2.01	0.60
2:3:28:C:OP2	7:m:57:ASN:ND2	2.34	0.59
3:4:62:C:H4'	3:4:63:G:O5'	2.02	0.59
11:q:16:VAL:HG12	11:q:29:GLY:CA	2.29	0.59
11:q:129:ARG:H	11:q:157:ASN:HD21	1.48	0.59
28:AA:88:ASP:HB3	28:AA:121:ARG:NH1	2.17	0.59
1:AR:419:G:N7	81:AR:3406:OHX:N3	2.50	0.59
1:AR:2429:G:OP2	81:AR:3545:OHX:N5	2.35	0.59
19:CS:165:ILE:HD12	19:CS:166:LEU:H	1.67	0.59
23:CW:95:PHE:CE1	23:CW:103:TYR:HB3	2.37	0.59
47:A:216:U:OP2	81:A:1944:OHX:N4	2.35	0.59
47:A:679:U:H2'	47:A:680:U:C5	2.36	0.59
47:A:1475:A:H2'	47:A:1476:C:O4'	2.01	0.59
49:C:174:LYS:O	49:C:174:LYS:NZ	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:H:137:ARG:HD3	54:H:177:ARG:HD2	1.83	0.59
66:T:16:ARG:NE	66:T:21:ASN:OD1	2.24	0.59
47:sR:1358:G:O3'	67:c9:130:ARG:HB3	2.02	0.59
47:sR:1726:G:N7	81:sR:1916[B]:OHX:N2	2.49	0.59
48:s0:41:ARG:HH11	48:s0:45:VAL:HG12	1.67	0.59
72:d4:111:LYS:NZ	72:d4:115:ASP:OD2	2.35	0.59
1:1:2376:G:H2'	1:1:2377:G:C8	2.37	0.59
1:1:2528:G:H5'	10:p:245:LYS:NZ	2.18	0.59
4:j:108:PRO:O	4:j:111:THR:OG1	2.17	0.59
24:6:13:ILE:HD13	24:6:54:LEU:HB3	1.84	0.59
28:AA:13:VAL:HG13	28:AA:19:ALA:HA	1.84	0.59
1:AR:196:G:N7	81:AR:3444:OHX:N3	2.49	0.59
1:AR:543:C:H42	1:AR:548:G:H1	1.49	0.59
1:AR:1023:C:H42	1:AR:1029:G:H1	1.50	0.59
1:AR:1117:G:OP1	30:DD:4:SER:HB2	2.02	0.59
1:AR:2242:A:H5'	4:CD:243:THR:HG23	1.84	0.59
1:AR:2569:A:O2'	1:AR:2570:U:O5'	2.19	0.59
7:CG:44:TYR:HD1	7:CG:44:TYR:H	1.50	0.59
10:CJ:185:ARG:O	10:CJ:188:THR:OG1	2.19	0.59
12:CL:74:LYS:O	12:CL:78:THR:HG23	2.02	0.59
29:DC:126:LYS:HB3	29:DC:148:ILE:HD13	1.83	0.59
47:A:16:G:H2'	47:A:17:C:C6	2.37	0.59
47:A:33:U:O4	81:A:1918:OHX:N1	2.34	0.59
47:A:140:A:N6	47:A:281:G:OP1	2.35	0.59
50:D:49:LYS:HB3	50:D:243:TYR:CE2	2.36	0.59
53:G:216:GLU:N	53:G:216:GLU:OE1	2.35	0.59
62:P:127:ARG:HG3	74:b:22:ARG:NH1	2.17	0.59
47:sR:208:U:H1'	56:s8:178:ARG:HD2	1.83	0.59
47:sR:679:U:H2'	47:sR:680:U:C4'	2.31	0.59
47:sR:808:U:H2'	47:sR:809:A:C8	2.37	0.59
47:sR:952:A:O2'	61:c3:114:ARG:HG2	2.02	0.59
47:sR:1018:U:H2'	47:sR:1019:A:C8	2.37	0.59
80:Rb:87:LYS:HD3	80:Rb:107:LYS:C	2.26	0.59
48:s0:24:LEU:HD23	48:s0:163:ASN:ND2	2.17	0.59
52:s4:73:ASP:OD2	52:s4:122:LYS:NZ	2.29	0.59
59:c1:122:ILE:H	59:c1:122:ILE:HD12	1.67	0.59
65:c7:72:LYS:HB2	65:c7:73:LEU:HD22	1.84	0.59
65:c7:80:ARG:HH11	65:c7:83:GLN:HG3	1.67	0.59
66:c8:84:TRP:HA	66:c8:89:GLN:HE22	1.66	0.59
66:c8:110:ARG:O	66:c8:114:GLU:HG2	2.02	0.59
1:1:1796:G:N7	81:1:4142:OHX:N1	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2962:U:OP1	81:1:4090:OHX:N3	2.35	0.59
1:1:3066:U:H2'	1:1:3067:C:C6	2.37	0.59
7:m:40:HIS:CD2	22:2:69:LYS:HB2	2.37	0.59
11:q:57:VAL:HG23	11:q:68:LEU:HD13	1.84	0.59
28:AA:88:ASP:HB3	28:AA:121:ARG:HH12	1.67	0.59
1:AR:2534:G:H2'	1:AR:2536:A:N7	2.17	0.59
3:AT:113:U:H5''	40:DN:7:PHE:HB3	1.85	0.59
11:CK:147:SER:HB2	11:CK:187:ILE:HD11	1.84	0.59
26:CZ:73:MET:HE1	26:CZ:141:TYR:CE1	2.36	0.59
45:sM:66:ALA:HB2	63:c5:127:ARG:NH2	2.18	0.59
47:A:323:A:OP2	56:J:10:LYS:HA	2.01	0.59
47:A:1776:A:H2'	47:A:1777:G:C8	2.38	0.59
48:B:157:ASP:OD1	69:W:65:SER:OG	2.14	0.59
51:E:55:THR:HG22	51:E:59:LEU:HD11	1.83	0.59
54:H:161:GLU:HA	54:H:170:THR:HG22	1.83	0.59
56:J:22:ARG:HG3	56:J:25:ARG:NH2	2.17	0.59
61:O:4:MET:SD	61:O:124:ARG:NH2	2.76	0.59
65:S:6:THR:HG22	65:S:8:THR:H	1.67	0.59
65:S:75:GLU:O	65:S:78:ARG:NH1	2.35	0.59
72:Z:21:LYS:HD3	72:Z:21:LYS:N	2.18	0.59
72:Z:131:ARG:HH11	72:Z:131:ARG:HB3	1.67	0.59
75:c:10:PRO:HG2	75:c:15:GLU:OE1	2.02	0.59
76:d:42:ARG:HG3	76:d:43:ASN:H	1.66	0.59
47:sR:1095:U:O4	81:sR:2020:OHX:N2	2.35	0.59
47:sR:1263:G:H2'	47:sR:1264:G:O4'	2.02	0.59
69:d1:3:ASN:ND2	69:d1:5:LYS:HE2	2.17	0.59
69:d1:85:TYR:CD2	75:d7:6:ASP:HB2	2.38	0.59
1:1:838:G:O6	44:AQ:4:ARG:NH2	2.36	0.59
1:1:1015:U:O2	1:1:1017:C:O2'	2.19	0.59
3:4:70:G:O6	81:AK:103:OHX:N6	2.34	0.59
14:t:37:ASN:O	14:t:41:THR:HG22	2.03	0.59
1:AR:789:A:H2'	1:AR:790:U:H6	1.66	0.59
1:AR:2734:A:OP1	81:AR:3546:OHX:N3	2.35	0.59
46:p0:30:VAL:HG13	46:p0:33:VAL:HG11	1.83	0.59
47:A:1436:A:OP2	51:E:27:ARG:NH2	2.35	0.59
48:B:9:LEU:HG	48:B:54:TRP:CG	2.38	0.59
53:G:121:ILE:HD12	53:G:122:ASN:N	2.18	0.59
53:G:159:ALA:HB2	53:G:225:ARG:NH1	2.17	0.59
55:I:141:ARG:NH1	55:I:143:LEU:HD11	2.17	0.59
59:M:93:TYR:CD1	59:M:100:TYR:HE1	2.20	0.59
73:a:63:SER:O	73:a:67:ASP:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s0:88:LYS:O	48:s0:92:HIS:ND1	2.33	0.59
49:s1:27:LYS:HE3	49:s1:49:ASN:OD1	2.02	0.59
49:s1:171:ILE:HD13	49:s1:197:ILE:HG22	1.83	0.59
53:s5:107:LYS:O	53:s5:111:VAL:HG23	2.02	0.59
1:1:1567:U:H3'	1:1:1568:U:H5''	1.85	0.59
1:1:1717:U:H2'	1:1:1718:G:C8	2.37	0.59
1:1:2427:U:H2'	1:1:2428:U:C6	2.37	0.59
1:1:2726:C:O2'	1:1:2727:A:H2'	2.02	0.59
10:p:24:ASN:HB3	10:p:25:PRO:HD3	1.83	0.59
28:AA:87:LEU:HD11	28:AA:121:ARG:HD2	1.85	0.59
1:AR:734:C:H2'	1:AR:735:A:O4'	2.03	0.59
1:AR:1915:A:H2'	1:AR:1916:U:H6	1.67	0.59
3:AT:84:C:H5''	3:AT:85:G:C5	2.37	0.59
9:CI:47:ARG:NH1	9:CI:183:ASP:OD2	2.35	0.59
12:CL:51:HIS:HB3	12:CL:134:ILE:HG23	1.84	0.59
12:CL:99:ILE:HG22	12:CL:123:HIS:HB2	1.84	0.59
13:CM:37:LEU:O	13:CM:41:SER:OG	2.19	0.59
22:CV:39:ILE:HB	22:CV:102:ARG:HD3	1.84	0.59
47:A:1599:C:O2	81:A:2138:OHX:N2	2.35	0.59
48:B:12:GLU:HA	48:B:15:GLN:CD	2.28	0.59
48:B:124:THR:HA	48:B:146:LEU:HB2	1.84	0.59
48:B:198:MET:HE3	65:S:88:VAL:HB	1.84	0.59
52:F:155:LYS:H	52:F:174:LYS:HZ1	1.50	0.59
66:T:96:LYS:HB3	66:T:98:TYR:CE1	2.38	0.59
67:U:11:ALA:CA	67:U:63:ARG:HH12	2.15	0.59
69:W:62:ARG:NH2	70:X:20:THR:O	2.35	0.59
47:sR:318:U:O4	81:sR:2009:OHX:N4	2.35	0.59
80:Rb:81:LEU:HD21	80:Rb:91:LEU:CD1	2.31	0.59
49:s1:73:LEU:HD12	49:s1:73:LEU:N	2.18	0.59
50:s2:218:ILE:HD12	50:s2:219:GLY:H	1.67	0.59
53:s5:72:HIS:CD2	53:s5:107:LYS:HG2	2.32	0.59
53:s5:80:LYS:HD2	53:s5:81:ARG:HG3	1.85	0.59
54:s6:189:HIS:CE1	54:s6:193:LEU:HD11	2.37	0.59
1:1:1534:A:OP1	81:1:3409:OHX:N1	2.35	0.59
1:1:1650:G:N7	81:1:3598:OHX:N6	2.51	0.59
1:1:2298:U:OP1	81:1:3437:OHX:N5	2.34	0.59
1:1:2548:C:OP2	4:j:93:LYS:NZ	2.35	0.59
4:j:112:ILE:HD12	4:j:135:ILE:HG22	1.84	0.59
6:l:4:PRO:HG2	6:l:22:LEU:HD12	1.83	0.59
6:l:262:TRP:C	6:l:269:SER:HB2	2.28	0.59
11:q:110:LYS:HG2	11:q:128:VAL:HG11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:188:ARG:HG3	14:t:189:GLU:N	2.18	0.59
28:AA:95:VAL:HG21	28:AA:110:ALA:HA	1.85	0.59
45:i:127:ALA:O	45:i:131:ILE:HG12	2.02	0.59
1:AR:191:U:H2'	1:AR:192:C:H6	1.68	0.59
11:CK:122:LYS:HG3	11:CK:123:ILE:N	2.16	0.59
41:DO:79:GLU:HB3	41:DO:82:LEU:HB2	1.85	0.59
47:A:180:A:H2'	47:A:181:A:O4'	2.01	0.59
47:A:1335:U:H3	47:A:1416:G:H1	1.50	0.59
47:A:1365:C:O2'	64:R:30:LYS:NZ	2.36	0.59
52:F:31:PRO:HG2	52:F:38:LEU:HG	1.84	0.59
61:O:46:THR:O	61:O:50:ILE:HG13	2.01	0.59
78:f:27:PRO:HB2	78:f:29:LYS:NZ	2.18	0.59
80:h:258:THR:HG23	80:h:259:GLY:H	1.68	0.59
47:sR:793:A:H3'	47:sR:794:U:H5'	1.83	0.59
80:Rb:156:VAL:HA	80:Rb:169:ILE:HG22	1.84	0.59
80:Rb:197:SER:OG	80:Rb:198:ASN:O	2.20	0.59
50:s2:67:GLN:O	50:s2:71:THR:HG23	2.01	0.59
51:s3:164:VAL:O	51:s3:168:ILE:HG13	2.02	0.59
59:c1:21:ASN:ND2	59:c1:31:THR:HA	2.18	0.59
59:c1:92:HIS:HB2	59:c1:103:ARG:HD2	1.85	0.59
73:d5:59:TYR:HE1	73:d5:100:ILE:HG22	1.67	0.59
1:1:2228:A:H2'	1:1:2229:A:C8	2.37	0.59
1:1:2586:G:N7	10:p:241:LYS:HB2	2.18	0.59
1:1:3120:C:H3'	41:AN:111:ARG:NH1	2.18	0.59
15:u:121:MET:O	15:u:125:LYS:HG3	2.02	0.59
16:v:39:ALA:HB3	16:v:61:ILE:HG22	1.85	0.59
32:AE:62:ARG:HB2	32:AE:66:GLY:O	2.03	0.59
36:AI:10:ARG:NH1	36:AI:60:GLU:OE1	2.35	0.59
1:AR:261:U:H2'	1:AR:262:U:C6	2.38	0.59
1:AR:792:G:H2'	1:AR:793:C:C6	2.38	0.59
1:AR:2762:A:OP2	81:AR:3489:OHX:N2	2.35	0.59
1:AR:2791:G:P	19:CS:180:ARG:HH12	2.25	0.59
17:CQ:18:ARG:O	17:CQ:22:VAL:HG13	2.01	0.59
22:CV:18:ASP:O	22:CV:21:LYS:HB2	2.03	0.59
23:CW:32:SER:OG	23:CW:83:TYR:OH	2.19	0.59
81:CX:202:OHX:N4	47:sR:419:G:N7	2.51	0.59
31:DE:51:LEU:HD11	35:DI:90:ILE:HG22	1.85	0.59
31:DE:70:PHE:HE1	31:DE:72:GLY:HA3	1.68	0.59
47:A:273:G:H1	47:A:283:U:H3	1.50	0.59
47:A:719:U:OP1	47:A:720:G:N1	2.35	0.59
47:A:1291:G:H22	47:A:1324:G:H22	1.47	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:O:70:LYS:O	61:O:74:ILE:HG13	2.03	0.59
74:b:36:ILE:O	74:b:36:ILE:HD12	2.02	0.59
80:h:73:LEU:HB2	80:h:80:ALA:HA	1.85	0.59
47:sR:405:C:OP1	81:sR:1913:OHX:N5	2.36	0.59
80:Rb:214:ALA:HB1	80:Rb:240:VAL:HG11	1.83	0.59
53:s5:94:THR:HG22	53:s5:114:ILE:HG21	1.83	0.59
59:c1:75:VAL:HG12	59:c1:121:ASP:O	2.02	0.59
66:c8:26:ILE:HB	66:c8:31:ALA:HB2	1.85	0.59
75:d7:36:LYS:HD3	75:d7:42:ASN:O	2.03	0.59
1:l:209:A:OP1	6:l:161:LYS:NZ	2.36	0.59
1:l:2177:G:OP2	4:j:128:ARG:NH1	2.36	0.59
1:l:2514:U:H5'	10:p:68:ARG:HG3	1.85	0.59
1:l:3143:C:O2'	81:l:3427:OHX:N2	2.36	0.59
1:l:3224:G:N7	81:l:3420:OHX:N1	2.51	0.59
1:l:3312:U:OP1	81:l:4114:OHX:N2	2.36	0.59
15:u:92:GLU:OE1	15:u:92:GLU:N	2.22	0.59
1:AR:1638:A:H5''	35:DI:74:ARG:HH12	1.68	0.59
1:AR:2534:G:H21	1:AR:2535:A:H62	1.51	0.59
1:AR:2672:G:O3'	13:CM:95:ASN:HA	2.03	0.59
5:CE:286:GLY:HA3	5:CE:321:PHE:CE1	2.37	0.59
14:CN:2:ALA:N	29:DC:33:GLY:O	2.35	0.59
32:DF:62:ARG:HB2	32:DF:66:GLY:O	2.03	0.59
47:A:1445:G:C4	79:g:91:ILE:HB	2.38	0.59
47:A:1488:G:H3'	47:A:1515:A:H61	1.66	0.59
47:A:1795:U:H3'	74:b:5:ARG:NH1	2.14	0.59
48:B:125:ASP:OD1	48:B:127:ARG:HB2	2.02	0.59
55:I:155:ASP:OD1	55:I:156:SER:N	2.34	0.59
57:K:83:VAL:O	57:K:107:ARG:HD3	2.02	0.59
66:T:52:VAL:HG11	66:T:61:LEU:HD23	1.85	0.59
80:h:205:SER:HB3	80:h:210:LEU:HB2	1.84	0.59
47:sR:62:A:OP1	81:sR:1954:OHX:N3	2.36	0.59
47:sR:817:A:H2'	47:sR:818:C:H6	1.68	0.59
47:sR:1041:G:H2'	47:sR:1042:G:C8	2.37	0.59
53:s5:140:THR:O	53:s5:214:LYS:HG3	2.02	0.59
55:s7:15:GLU:N	55:s7:15:GLU:OE1	2.35	0.59
55:s7:31:SER:CB	55:s7:35:LYS:HG2	2.33	0.59
55:s7:53:GLY:C	55:s7:55:LYS:H	2.10	0.59
67:c9:117:SER:HB2	67:c9:123:ARG:HB3	1.84	0.59
1:l:1565:G:H2'	1:l:1566:A:O4'	2.01	0.59
1:l:2273:G:O6	86:l:4202:HOH:O	2.17	0.59
1:l:2663:G:H5''	7:m:152:ARG:HD2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m:34:LYS:O	7:m:38:THR:HG23	2.02	0.59
7:m:50:ARG:NH1	7:m:72:ASP:OD2	2.35	0.59
15:u:12:TRP:CZ2	21:0:153:PRO:HB3	2.38	0.59
19:y:101:VAL:HG21	19:y:114:ILE:HD13	1.85	0.59
1:AR:45:A:P	16:CP:85:THR:HG21	2.42	0.59
5:CE:47:LEU:HD22	5:CE:335:ILE:HD11	1.85	0.59
47:A:130:C:O2'	47:A:131:C:OP1	2.21	0.59
47:A:926:A:OP1	47:A:1016:C:O2'	2.13	0.59
47:A:1609:U:H5''	64:R:75:VAL:HG12	1.84	0.59
47:A:1738:U:H2'	47:A:1739:C:C6	2.38	0.59
47:A:1780:G:OP2	81:A:2114:OHX:N4	2.36	0.59
55:I:22:GLN:HA	55:I:25:VAL:HG22	1.85	0.59
47:sR:1432:U:H4'	47:sR:1433:G:H5''	1.85	0.59
48:s0:175:TYR:OH	48:s0:197:ILE:O	2.12	0.59
49:s1:73:LEU:C	49:s1:74:GLN:HE21	2.11	0.59
67:c9:70:GLN:NE2	67:c9:119:LYS:HD3	2.18	0.59
73:d5:61:SER:O	73:d5:64:VAL:HG22	2.03	0.59
1:1:269:G:H5''	16:v:14:LYS:HE2	1.85	0.59
2:3:112:G:H2'	2:3:113:C:C6	2.38	0.59
5:k:140:ASP:OD1	5:k:140:ASP:N	2.36	0.59
21:0:23:LYS:HB3	21:0:25:PHE:CZ	2.38	0.59
1:AR:1728:G:O2'	31:DE:87:VAL:HG12	2.03	0.59
1:AR:1940:G:N2	1:AR:3362:A:H8	2.00	0.59
1:AR:2556:C:H5'	28:DB:136:PHE:C	2.28	0.59
1:AR:2960:C:OP1	81:AR:3472:OHX:N3	2.36	0.59
3:AT:26:U:H2'	3:AT:27:U:C6	2.38	0.59
3:AT:84:C:N3	27:DA:116:LYS:NZ	2.50	0.59
3:AT:149:A:H2'	3:AT:150:G:C8	2.38	0.59
14:CN:103:ASN:CB	37:DK:20:MET:HE2	2.32	0.59
23:CW:59:ASP:OD1	23:CW:60:GLY:N	2.35	0.59
46:p0:42:ARG:HG2	46:p0:51:VAL:HG11	1.84	0.59
49:C:141:ALA:HB1	49:C:207:LEU:CD2	2.33	0.59
50:D:148:LEU:HA	69:W:4:ASP:HB2	1.84	0.59
54:H:136:LYS:HG3	54:H:173:PRO:HB2	1.83	0.59
57:K:138:LYS:HE3	72:Z:67:GLY:HA3	1.84	0.59
68:V:57:ARG:HA	68:V:89:ARG:NE	2.18	0.59
80:Rb:12:THR:OG1	80:Rb:310:ILE:O	2.20	0.59
63:c5:123:TYR:HE1	66:c8:122:HIS:HE1	1.51	0.59
1:1:1112:A:OP1	14:t:5:LYS:NZ	2.35	0.58
1:1:1240:A:H3'	1:1:1241:U:H5'	1.84	0.58
3:4:67:U:OP1	38:AK:85:LYS:HE2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:x:117:ILE:HG13	18:x:148:LEU:HB3	1.84	0.58
1:AR:211:A:OP1	6:CF:220:ARG:HD2	2.03	0.58
1:AR:1306:G:C6	17:CQ:62:THR:HA	2.38	0.58
1:AR:1881:A:OP2	81:AR:3530:OHX:N6	2.35	0.58
1:AR:2924:U:O4	81:AR:3559:OHX:N4	2.36	0.58
1:AR:3022:G:O2'	1:AR:3031:G:O6	2.21	0.58
5:CE:188:ILE:O	5:CE:192:VAL:HG12	2.03	0.58
14:CN:176:GLU:HG2	37:DK:11:LEU:HD11	1.84	0.58
15:CO:21:VAL:HB	15:CO:63:VAL:HG13	1.85	0.58
36:DJ:66:VAL:HG23	36:DJ:80:LEU:HD11	1.85	0.58
47:A:218:A:N6	47:A:844:A:H1'	2.18	0.58
47:A:885:G:N2	62:P:123:SER:HB2	2.05	0.58
47:A:1649:G:H2'	47:A:1650:U:C6	2.38	0.58
51:s3:168:ILE:HG22	51:s3:189:MET:HB2	1.84	0.58
56:s8:120:THR:O	81:s8:302:OHX:N3	2.36	0.58
1:1:1084:A:H4'	7:m:44:TYR:CE1	2.38	0.58
1:1:1667:A:H2'	1:1:1668:G:H8	1.68	0.58
6:l:99:MET:HG2	6:l:100:PHE:N	2.17	0.58
9:o:214:TRP:CE2	9:o:219:LYS:HD2	2.38	0.58
14:t:6:ASN:HB2	29:AB:48:TYR:CD2	2.38	0.58
18:x:59:PRO:HG3	18:x:76:PHE:CD2	2.38	0.58
25:7:46:PRO:HB2	25:7:54:LEU:HD22	1.84	0.58
1:AR:789:A:H2'	1:AR:790:U:C6	2.38	0.58
1:AR:2787:G:H2'	1:AR:2788:C:H6	1.68	0.58
1:AR:3151:U:OP2	5:CE:132:LYS:NZ	2.20	0.58
2:AS:68:C:OP1	7:CG:14:SER:OG	2.20	0.58
10:CJ:245:LYS:HZ3	10:CJ:249:ARG:HG2	1.66	0.58
19:CS:178:ARG:HG3	29:DC:50:PRO:HB2	1.84	0.58
47:A:195:G:H2'	47:A:196:G:H5''	1.84	0.58
47:A:1571:C:H3'	47:A:1572:G:H5''	1.84	0.58
48:B:119:ARG:NH1	50:D:241:ASP:OD1	2.36	0.58
49:C:64:ARG:N	49:C:64:ARG:HD2	2.18	0.58
49:C:144:ARG:HD3	49:C:145:LYS:N	2.17	0.58
53:G:62:VAL:HA	53:G:89:ILE:HG21	1.84	0.58
54:H:51:LYS:HB3	54:H:112:VAL:HG22	1.85	0.58
61:O:62:GLN:HB2	61:O:65:VAL:HG12	1.85	0.58
63:Q:55:GLY:O	63:Q:58:LYS:HB3	2.03	0.58
66:T:29:VAL:HG21	66:T:44:ASN:HD22	1.68	0.58
67:U:128:GLY:O	67:U:132:LEU:HG	2.03	0.58
71:Y:68:ILE:O	71:Y:70:LYS:NZ	2.33	0.58
47:sR:1091:A:H4'	47:sR:1092:A:O5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1222:C:N4	47:sR:1261:G:H1	1.98	0.58
80:Rb:214:ALA:HB2	80:Rb:220:ILE:HA	1.85	0.58
53:s5:42:LEU:HB3	53:s5:46:TRP:O	2.02	0.58
66:c8:23:ASP:HB3	66:c8:26:ILE:HD11	1.84	0.58
67:c9:108:LEU:HB3	67:c9:114:VAL:HG22	1.85	0.58
1:1:716:A:C5	29:AB:117:ARG:HD3	2.39	0.58
1:1:1077:U:O4	81:1:4107:OHX:N6	2.36	0.58
1:1:2808:A:O2'	1:1:2969:A:OP1	2.16	0.58
13:s:37:LEU:O	13:s:41:SER:OG	2.10	0.58
18:x:172:GLN:NE2	34:AG:61:GLY:HA3	2.18	0.58
45:i:74:LYS:HE2	63:Q:129:GLY:HA3	1.85	0.58
1:AR:171:G:H2'	1:AR:172:G:O4'	2.03	0.58
1:AR:776:U:H5	1:AR:2719:U:O2	1.86	0.58
1:AR:945:C:H2'	1:AR:946:U:C6	2.38	0.58
1:AR:1851:G:OP2	81:AR:3539:OHX:N2	2.36	0.58
1:AR:2904:U:H2'	1:AR:2905:U:C6	2.39	0.58
1:AR:3375:A:O2'	1:AR:3378:C:OP2	2.18	0.58
15:CO:22:LEU:HB3	15:CO:64:VAL:HG13	1.86	0.58
25:CY:49:ILE:O	25:CY:52:THR:HG22	2.03	0.58
26:CZ:67:ILE:HB	26:CZ:83:VAL:HG23	1.84	0.58
47:A:30:G:H2'	47:A:31:C:H6	1.68	0.58
47:A:732:G:H2'	47:A:732:G:N3	2.18	0.58
48:B:31:VAL:HG11	48:B:151:SER:O	2.03	0.58
48:B:109:ASN:O	48:B:112:THR:HG22	2.02	0.58
55:I:71:HIS:CD2	55:I:131:PHE:HE2	2.20	0.58
60:N:134:SER:HA	60:N:137:MET:CE	2.33	0.58
66:T:30:TYR:CE1	66:T:40:ARG:HG2	2.39	0.58
68:V:33:GLN:N	68:V:33:GLN:OE1	2.37	0.58
80:h:20:VAL:HA	80:h:37:SER:HB2	1.85	0.58
80:h:114:ASP:HB2	80:h:155:ARG:HD3	1.84	0.58
47:sR:830:U:C2'	47:sR:831:U:H5'	2.34	0.58
47:sR:1144:U:H2'	47:sR:1145:U:C6	2.38	0.58
48:s0:163:ASN:HB3	48:s0:169:SER:OG	2.02	0.58
48:s0:200:ASP:HA	48:s0:203:PHE:CZ	2.37	0.58
49:s1:48:VAL:HG21	49:s1:61:LEU:HD23	1.85	0.58
59:c1:78:THR:HA	59:c1:84:ILE:HG22	1.85	0.58
61:c3:91:LEU:HB3	61:c3:122:ILE:HG12	1.83	0.58
65:c7:80:ARG:NH1	65:c7:83:GLN:HE21	2.02	0.58
75:d7:19:HIS:CD2	75:d7:21:LEU:H	2.21	0.58
1:1:59:G:H2'	3:4:33:A:O2'	2.03	0.58
10:p:249:ARG:HH12	10:p:253:SER:HB2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:q:28:VAL:HG13	11:q:33:THR:HB	1.85	0.58
19:y:64:VAL:HG22	19:y:96:PHE:CE1	2.38	0.58
36:AI:109:ILE:HG13	36:AI:110:ALA:N	2.18	0.58
1:AR:604:G:N7	81:AR:3656:OHX:N2	2.52	0.58
1:AR:830:A:OP1	81:AR:3562:OHX:N5	2.37	0.58
23:CW:95:PHE:HD1	23:CW:96:VAL:N	2.02	0.58
49:C:91:VAL:HA	49:C:95:ASN:HD22	1.68	0.58
50:D:39:THR:OG1	50:D:65:GLU:HB2	2.04	0.58
57:K:27:GLU:HB2	57:K:39:LYS:HZ2	1.68	0.58
74:b:75:VAL:O	74:b:79:ILE:N	2.33	0.58
47:sR:1503:A:H2'	47:sR:1504:G:O4'	2.03	0.58
80:Rb:200:ASN:H	80:Rb:215:GLY:CA	2.16	0.58
1:1:1029:G:H2'	1:1:1030:A:C8	2.36	0.58
1:1:1798:A:H2'	1:1:1799:A:C8	2.38	0.58
1:1:1949:G:H2'	1:1:1950:U:C6	2.37	0.58
1:1:2575:G:H2'	1:1:2576:G:H8	1.69	0.58
10:p:75:ILE:HD11	16:v:18:VAL:HG23	1.85	0.58
10:p:226:TYR:HA	10:p:229:VAL:HG22	1.86	0.58
14:t:15:ARG:HG3	14:t:15:ARG:HH11	1.67	0.58
23:5:50:LEU:H	23:5:50:LEU:HD12	1.68	0.58
28:AA:4:PHE:CZ	31:AD:35:ARG:HA	2.39	0.58
1:AR:114:A:N1	1:AR:266:A:O2'	2.34	0.58
1:AR:121:A:N1	10:CJ:129:PRO:HG3	2.19	0.58
1:AR:272:G:OP2	81:AR:3574:OHX:N3	2.36	0.58
1:AR:284:A:OP2	43:DQ:41:ARG:NH1	2.36	0.58
1:AR:2433:U:H1'	16:CP:125:SER:HB3	1.86	0.58
1:AR:2801:A:O2'	1:AR:2802:A:H2'	2.03	0.58
35:DI:103:LYS:HD3	35:DI:104:VAL:CG1	2.23	0.58
47:A:66:U:H5'	54:H:173:PRO:HA	1.86	0.58
47:A:327:U:H2'	47:A:328:A:C8	2.39	0.58
47:A:741:C:O2	55:I:107:ARG:NH1	2.37	0.58
47:A:915:A:H5''	47:A:916:U:H5	1.68	0.58
47:A:1471:A:N7	47:A:1540:G:H1'	2.18	0.58
47:A:1716:C:O2'	47:A:1717:G:OP2	2.21	0.58
49:C:201:THR:HB	49:C:207:LEU:HD12	1.86	0.58
52:F:92:LEU:HD12	52:F:99:PHE:HE1	1.67	0.58
52:F:195:ILE:HD11	52:F:227:VAL:HG12	1.84	0.58
56:J:116:HIS:O	56:J:118:GLY:N	2.36	0.58
47:sR:1062:A:H5''	47:sR:1063:U:H5	1.69	0.58
47:sR:1383:G:OP1	68:d0:87:HIS:ND1	2.32	0.58
55:s7:50:ASP:HA	55:s7:56:LYS:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:c9:79:LEU:HD23	67:c9:80:TYR:CE1	2.38	0.58
67:c9:107:ALA:HA	67:c9:110:LYS:HE3	1.84	0.58
74:d6:87:ARG:NH2	74:d6:91:ASP:O	2.37	0.58
1:l:803:C:O2'	6:l:92:ASN:OD1	2.21	0.58
1:l:1487:G:H1	1:l:1855:U:H3	1.51	0.58
5:k:345:ASN:OD1	5:k:347:SER:HB2	2.02	0.58
1:AR:1094:U:H4'	1:AR:1095:U:OP1	2.04	0.58
1:AR:1481:A:O2'	1:AR:1858:A:N3	2.30	0.58
1:AR:1646:G:O2'	1:AR:1808:G:N2	2.28	0.58
1:AR:1740:U:H1'	1:AR:1741:A:H2	1.68	0.58
1:AR:2986:U:H2'	1:AR:2987:A:H8	1.69	0.58
13:CM:166:LYS:HB3	13:CM:167:TYR:CD1	2.38	0.58
47:A:474:A:OP2	57:K:44:ARG:NH1	2.30	0.58
47:A:639:U:OP1	55:I:117:THR:OG1	2.21	0.58
47:A:711:U:H5'	47:A:729:G:O6	2.03	0.58
49:C:111:ARG:HB3	74:b:68:TYR:HB2	1.86	0.58
57:K:48:GLN:O	57:K:52:ILE:HG13	2.03	0.58
74:b:46:GLU:HG2	74:b:47:ALA:H	1.67	0.58
75:c:54:VAL:HG23	75:c:63:LEU:HD22	1.85	0.58
75:c:75:GLU:O	75:c:77:THR:OG1	2.22	0.58
47:sR:161:U:OP2	54:s6:87:ARG:NH2	2.36	0.58
47:sR:488:G:O2'	47:sR:500:C:N4	2.37	0.58
47:sR:696:C:O2	81:sR:1930:OHX:N6	2.37	0.58
47:sR:761:G:O2'	57:s9:72:GLU:OE2	2.19	0.58
47:sR:929:A:H5''	47:sR:930:A:OP2	2.03	0.58
47:sR:1158:C:OP2	81:sR:1994:OHX:N3	2.35	0.58
80:Rb:213:SER:HB3	80:Rb:221:MET:O	2.02	0.58
48:s0:41:ARG:HB2	48:s0:42:PRO:HD2	1.85	0.58
49:s1:72:ASP:CG	74:d6:59:TYR:HH	2.11	0.58
50:s2:127:ALA:O	50:s2:131:ILE:HG12	2.04	0.58
57:s9:57:ARG:HG2	57:s9:97:LEU:HD21	1.85	0.58
59:c1:79:LYS:HE2	59:c1:79:LYS:HA	1.86	0.58
59:c1:111:VAL:HA	59:c1:139:VAL:HG12	1.85	0.58
65:c7:71:PHE:CZ	65:c7:74:GLN:HG3	2.38	0.58
66:c8:29:VAL:HG13	66:c8:30:TYR:CD1	2.38	0.58
1:l:92:G:OP2	1:l:93:C:H5''	2.03	0.58
1:l:211:A:OP1	6:l:220:ARG:HD2	2.03	0.58
1:l:3332:U:OP1	25:7:35:LYS:HD2	2.04	0.58
2:3:49:G:C5	7:m:58:LYS:HG3	2.38	0.58
10:p:30:THR:O	10:p:30:THR:OG1	2.22	0.58
10:p:171:LYS:HD3	10:p:226:TYR:CD1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:q:92:TYR:CD2	11:q:142:ASP:HB3	2.39	0.58
12:r:68:ALA:HB2	12:r:158:LYS:HB2	1.86	0.58
13:s:156:LYS:O	13:s:160:VAL:HG13	2.02	0.58
14:t:87:ALA:O	14:t:91:ARG:HG3	2.03	0.58
19:y:125:ASP:OD1	19:y:125:ASP:N	2.37	0.58
23:5:30:PRO:HA	23:5:33:TYR:HB3	1.84	0.58
35:AH:103:LYS:HD3	35:AH:104:VAL:HG13	1.85	0.58
1:AR:90:C:H2'	1:AR:91:G:H5'	1.84	0.58
1:AR:267:G:H4'	16:CP:50:ARG:HH11	1.69	0.58
1:AR:1836:C:H41	40:DN:3:ALA:HB2	1.68	0.58
1:AR:2508:U:H2'	1:AR:2509:U:C6	2.39	0.58
1:AR:3180:A:OP1	17:CQ:171:LYS:NZ	2.37	0.58
8:CH:100:LYS:HE2	8:CH:137:ASP:CG	2.29	0.58
10:CJ:45:ASN:ND2	10:CJ:47:SER:HB3	2.19	0.58
14:CN:167:PHE:CD2	29:DC:132:LYS:HB2	2.38	0.58
44:DR:46:THR:HB	44:DR:58:SER:HB3	1.85	0.58
47:A:470:A:OP2	81:A:2123:OHX:N4	2.37	0.58
52:F:184:THR:HA	52:F:189:LEU:HD12	1.86	0.58
52:F:191:ARG:HD3	52:F:245:LYS:HB2	1.85	0.58
53:G:143:ARG:HH11	53:G:143:ARG:HG3	1.68	0.58
73:a:41:ILE:HG12	73:a:42:LEU:H	1.68	0.58
80:h:216:LYS:CA	80:h:239:GLU:HG3	2.30	0.58
47:sR:563:U:H4'	78:e0:17:GLN:OE1	2.04	0.58
47:sR:1003:A:H4'	47:sR:1004:U:O5'	2.02	0.58
47:sR:1511:U:H2'	47:sR:1512:G:C8	2.39	0.58
48:s0:112:THR:HG22	48:s0:114:SER:N	2.14	0.58
53:s5:80:LYS:HD2	53:s5:81:ARG:H	1.69	0.58
53:s5:117:THR:HG22	53:s5:191:ALA:O	2.03	0.58
1:1:129:U:H2'	1:1:130:A:H8	1.69	0.58
1:1:317:A:OP2	37:AJ:30:LYS:NZ	2.36	0.58
1:1:872:U:H2'	1:1:873:C:C6	2.39	0.58
1:1:3346:U:H3	1:1:3359:A:N6	2.02	0.58
16:v:21:PHE:O	16:v:25:VAL:HG23	2.03	0.58
34:AG:49:ILE:CD1	34:AG:100:ILE:HG12	2.32	0.58
38:AK:17:THR:HG22	38:AK:18:LEU:H	1.68	0.58
1:AR:1234:G:N7	81:AR:3451:OHX:N5	2.52	0.58
1:AR:1618:G:H4'	3:AT:129:C:H1'	1.85	0.58
1:AR:1824:U:H4'	39:DM:17:ARG:NH1	2.18	0.58
1:AR:2896:A:H8	1:AR:2896:A:H5'	1.68	0.58
6:CF:126:ILE:HD11	6:CF:233:LEU:HD13	1.84	0.58
7:CG:41:LYS:HB2	22:CV:68:THR:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:138:TYR:CE2	9:CI:233:GLU:HB3	2.38	0.58
12:CL:82:ARG:O	12:CL:82:ARG:HD3	2.03	0.58
47:A:228:G:N1	47:A:834:G:N3	2.52	0.58
47:A:404:G:H2'	47:A:405:C:C6	2.38	0.58
47:A:514:G:O2'	47:A:515:A:H5'	2.04	0.58
47:A:1523:G:H8	67:U:79:LEU:HD13	1.68	0.58
50:D:111:VAL:O	50:D:136:VAL:HA	2.04	0.58
53:G:156:ARG:HH12	53:G:158:GLN:HG2	1.69	0.58
54:H:210:GLN:OE1	54:H:214:LYS:NZ	2.36	0.58
55:I:126:LEU:O	55:I:130:VAL:HG22	2.04	0.58
55:I:172:VAL:O	55:I:176:LEU:HG	2.03	0.58
66:T:32:LEU:O	66:T:35:ILE:HD12	2.03	0.58
69:W:57:GLY:O	69:W:61:SER:OG	2.19	0.58
47:sR:380:U:N3	57:s9:5:PRO:HB3	2.19	0.58
47:sR:646:C:H2'	47:sR:647:G:C8	2.39	0.58
47:sR:716:C:H42	47:sR:722:G:H1	1.52	0.58
47:sR:1040:G:H5''	48:s0:31:VAL:HG21	1.84	0.58
80:Rb:210:LEU:HA	80:Rb:223:TRP:O	2.04	0.58
53:s5:211:ILE:O	53:s5:215:ASP:HB2	2.04	0.58
54:s6:180:THR:HG23	54:s6:183:ARG:H	1.69	0.58
59:c1:21:ASN:HD22	59:c1:31:THR:HA	1.69	0.58
63:c5:16:SER:OG	63:c5:21:ASP:OD1	2.20	0.58
1:1:1498:A:H2'	1:1:1499:C:C6	2.39	0.58
1:1:2209:U:O2'	1:1:2210:G:OP1	2.21	0.58
2:3:118:A:H5''	7:m:253:PHE:CZ	2.39	0.58
5:k:86:VAL:HG22	5:k:162:VAL:HG12	1.85	0.58
31:AD:13:LYS:HZ3	31:AD:98:SER:HA	1.68	0.58
34:AG:14:LEU:HD11	34:AG:31:LYS:HB2	1.86	0.58
5:CE:79:VAL:HG23	5:CE:81:THR:HG23	1.86	0.58
10:CJ:42:PRO:HD2	10:CJ:44:ARG:HH12	1.69	0.58
47:A:145:A:O2'	47:A:146:U:O5'	2.18	0.58
47:A:920:U:H2'	47:A:921:U:O4'	2.02	0.58
47:A:1727:G:H2'	47:A:1728:A:C8	2.38	0.58
63:Q:28:MET:HA	63:Q:28:MET:HE3	1.85	0.58
65:S:103:ASP:H	65:S:106:THR:CG2	2.16	0.58
67:U:141:GLU:HG2	67:U:141:GLU:O	2.03	0.58
69:W:40:ASP:OD1	69:W:44:ARG:HB2	2.03	0.58
47:sR:891:A:H2'	47:sR:892:A:H8	1.69	0.58
47:sR:1552:U:OP2	63:c5:43:ARG:NH2	2.37	0.58
80:Rb:173:GLY:N	80:Rb:199:ILE:HD11	2.15	0.58
58:c0:35:ILE:HG22	58:c0:37:THR:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:c6:83:GLN:HG2	64:c6:83:GLN:O	2.03	0.58
1:1:2537:U:H1'	1:1:2538:U:O5'	2.04	0.58
1:1:2592:G:H4'	1:1:2594:C:C2	2.39	0.58
13:s:166:LYS:HD3	13:s:167:TYR:N	2.17	0.58
39:AL:12:LEU:O	39:AL:15:THR:OG1	2.21	0.58
44:AQ:37:TYR:HB2	44:AQ:47:VAL:HG13	1.84	0.58
1:AR:1239:C:N4	1:AR:1249:G:H22	2.00	0.58
1:AR:1658:G:H2'	1:AR:1659:U:C6	2.39	0.58
1:AR:2426:U:H2'	1:AR:2427:U:C6	2.39	0.58
1:AR:2588:U:OP1	10:CJ:48:ARG:NH2	2.31	0.58
1:AR:2953:U:H2'	1:AR:2954:U:H2'	1.86	0.58
9:CI:160:ARG:HD2	9:CI:203:TRP:CD1	2.39	0.58
11:CK:4:ILE:HD11	21:CU:143:PHE:CE2	2.38	0.58
46:p0:94:THR:HG22	46:p0:97:LYS:HB3	1.86	0.58
45:sM:72:ARG:NH1	47:sR:1460:A:O3'	2.37	0.58
47:A:40:A:OP1	57:K:3:ARG:NH2	2.37	0.58
47:A:159:U:O2'	54:H:87:ARG:NH1	2.37	0.58
47:A:939:A:H2'	47:A:940:A:C8	2.39	0.58
47:A:1034:C:HO2'	70:X:2:THR:N	2.01	0.58
47:A:1586:A:H1'	47:A:1611:A:N6	2.19	0.58
53:G:43:PHE:N	53:G:46:TRP:O	2.34	0.58
53:G:63:GLN:H	53:G:89:ILE:HG23	1.69	0.58
55:I:98:ILE:HG22	55:I:121:VAL:HG11	1.85	0.58
60:N:62:LEU:HG	60:N:75:VAL:HG21	1.84	0.58
66:T:67:GLU:HA	66:T:70:VAL:HG12	1.86	0.58
47:sR:191:C:O2'	47:sR:192:U:O5'	2.22	0.58
47:sR:845:G:N7	81:sR:1922:OHX:N4	2.52	0.58
47:sR:1003:A:H1'	47:sR:1005:A:N7	2.19	0.58
47:sR:1389:C:O2'	65:c7:52:GLY:HA3	2.04	0.58
80:Rb:206:PRO:HG2	80:Rb:247:PRO:HA	1.85	0.58
50:s2:227:PRO:HA	50:s2:230:TRP:CD1	2.39	0.58
51:s3:126:VAL:HG21	51:s3:188:ILE:HG12	1.86	0.58
54:s6:152:ASP:HB3	54:s6:154:ARG:HH22	1.68	0.58
59:c1:8:GLN:HE22	59:c1:14:GLN:H	1.50	0.58
65:c7:32:LYS:HG2	65:c7:47:ARG:HH12	1.68	0.58
68:d0:37:VAL:O	68:d0:41:ILE:HG12	2.03	0.58
73:d5:90:LYS:HE2	73:d5:105:THR:HA	1.86	0.58
1:1:1238:C:N4	1:1:1245:A:OP2	2.28	0.57
1:1:2112:U:H4'	1:1:2113:A:H5'	1.86	0.57
5:k:204:ALA:O	5:k:207:SER:OG	2.19	0.57
6:l:72:ALA:O	6:l:76:ARG:NH1	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:q:22:SER:HA	15:u:8:LYS:HE2	1.85	0.57
13:s:41:SER:O	13:s:75:LYS:NZ	2.34	0.57
1:AR:1448:U:H5''	18:CR:66:SER:HB2	1.86	0.57
1:AR:2619:G:N7	81:AR:3473:OHX:N4	2.52	0.57
1:AR:2854:U:P	12:CL:3:ARG:HH22	2.27	0.57
10:CJ:94:PHE:CZ	10:CJ:152:LEU:HD21	2.39	0.57
11:CK:90:MET:HE2	11:CK:179:ILE:HG22	1.85	0.57
12:CL:42:THR:HG22	12:CL:44:ASP:N	2.13	0.57
13:CM:116:TYR:CE2	13:CM:118:PRO:HB3	2.39	0.57
15:CO:26:GLY:O	15:CO:29:ALA:HB2	2.03	0.57
22:CV:86:GLU:OE2	22:CV:88:ARG:NH1	2.37	0.57
35:DI:100:ILE:HA	35:DI:103:LYS:HB2	1.84	0.57
42:DP:4:LYS:NZ	47:sR:1774:G:N7	2.52	0.57
47:A:992:A:OP1	81:A:2108:OHX:N6	2.37	0.57
47:A:1169:G:N1	47:A:1575:G:OP2	2.28	0.57
49:C:131:ASP:O	49:C:133:TYR:N	2.28	0.57
50:D:50:ILE:HD11	50:D:239:PRO:HG3	1.85	0.57
52:F:22:LYS:HD2	52:F:22:LYS:H	1.69	0.57
52:F:180:LEU:O	52:F:228:ILE:N	2.24	0.57
65:S:84:TYR:CD1	65:S:85:VAL:N	2.72	0.57
66:T:102:ALA:H	66:T:105:VAL:HG12	1.69	0.57
47:sR:1624:C:H2'	47:sR:1625:C:C6	2.39	0.57
47:sR:1776:A:H2'	47:sR:1777:G:C8	2.38	0.57
48:s0:41:ARG:HG3	48:s0:45:VAL:HG12	1.86	0.57
50:s2:218:ILE:HD12	50:s2:219:GLY:N	2.19	0.57
54:s6:57:ASP:HA	54:s6:106:LEU:HA	1.85	0.57
57:s9:93:LEU:HA	57:s9:96:VAL:HG22	1.85	0.57
66:c8:65:GLU:O	66:c8:69:ILE:HG23	2.04	0.57
69:d1:3:ASN:HD22	69:d1:5:LYS:HE2	1.69	0.57
1:1:723:U:O4	81:1:4116:OHX:N5	2.38	0.57
1:1:2094:C:H2'	1:1:2095:G:H8	1.69	0.57
1:1:3218:A:H4'	1:1:3219:G:O5'	2.04	0.57
23:5:99:LYS:HG3	23:5:102:GLU:HB2	1.86	0.57
1:AR:119:U:H4'	1:AR:120:G:H3'	1.86	0.57
1:AR:1405:U:OP2	33:DG:59:SER:OG	2.22	0.57
10:CJ:184:ALA:HA	10:CJ:194:THR:HG22	1.85	0.57
11:CK:137:SER:HB3	11:CK:143:GLU:HB3	1.86	0.57
11:CK:161:LEU:O	11:CK:164:ILE:HG22	2.03	0.57
14:CN:30:GLY:O	14:CN:33:VAL:HG12	2.04	0.57
47:A:472:U:H2'	47:A:473:A:C8	2.39	0.57
47:A:955:A:H4'	47:A:1073:G:O2'	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1081:A:H2'	47:A:1083:G:N7	2.18	0.57
49:C:104:ASP:OD1	49:C:105:PHE:N	2.37	0.57
52:F:139:VAL:HG13	52:F:150:PRO:HG3	1.86	0.57
52:F:151:ASP:HB3	52:F:154:ILE:HG13	1.86	0.57
52:F:241:GLY:O	52:F:244:ILE:HD12	2.03	0.57
53:G:121:ILE:HG21	53:G:198:LEU:CD1	2.34	0.57
54:H:102:VAL:HG13	54:H:106:LEU:HD12	1.87	0.57
55:I:5:GLN:N	55:I:5:GLN:OE1	2.36	0.57
61:O:30:SER:O	61:O:34:ILE:HG23	2.04	0.57
66:T:27:LYS:HG2	66:T:29:VAL:HG12	1.85	0.57
47:sR:292:U:H2'	47:sR:293:U:C6	2.39	0.57
47:sR:1142:A:H2'	47:sR:1143:A:C8	2.39	0.57
47:sR:1354:G:H5'	47:sR:1355:C:OP2	2.05	0.57
80:Rb:200:ASN:N	80:Rb:215:GLY:HA3	2.18	0.57
51:s3:95:GLY:HA2	51:s3:101:GLN:NE2	2.18	0.57
1:1:1472:U:H5'	20:z:4:LEU:HB2	1.87	0.57
1:1:1620:U:H2'	1:1:1621:A:C8	2.39	0.57
1:1:2341:A:OP2	5:k:247:ARG:NH2	2.37	0.57
1:1:3192:U:H2'	1:1:3193:C:C6	2.39	0.57
1:1:3290:G:N7	81:1:4127:OHX:N5	2.52	0.57
2:3:36:C:H4'	7:m:155:THR:HG23	1.86	0.57
7:m:41:LYS:NZ	22:2:32:LYS:O	2.29	0.57
7:m:195:LEU:O	7:m:199:ILE:HG13	2.03	0.57
13:s:114:ILE:H	13:s:114:ILE:HD12	1.68	0.57
20:z:138:LEU:O	20:z:142:ILE:HG13	2.04	0.57
31:AD:26:GLY:O	31:AD:30:THR:HG23	2.05	0.57
1:AR:2676:A:H4'	1:AR:2677:G:O5'	2.03	0.57
12:CL:45:GLU:O	12:CL:141:LYS:HE3	2.05	0.57
47:A:513:U:OP1	57:K:163:PRO:HG2	2.05	0.57
47:A:1235:C:H3'	47:A:1236:A:H8	1.68	0.57
47:A:1471:A:C2	47:A:1474:G:H1'	2.39	0.57
47:A:1529:C:OP1	53:G:112:ARG:HD3	2.04	0.57
49:C:183:GLN:HG2	49:C:187:LYS:HE2	1.86	0.57
80:h:168:THR:HG22	80:h:182:ASN:HA	1.86	0.57
47:sR:346:G:N7	81:sR:2009:OHX:N2	2.53	0.57
47:sR:701:U:H2'	47:sR:702:G:C8	2.39	0.57
47:sR:1251:U:H4'	79:e1:133:ALA:HB1	1.84	0.57
47:sR:1701:A:H3'	47:sR:1702:A:O4'	2.04	0.57
80:Rb:170:ILE:HG13	80:Rb:202:LEU:HD21	1.86	0.57
67:c9:15:ILE:HD11	67:c9:63:ARG:HD2	1.85	0.57
1:1:642:U:OP1	29:AB:22:ILE:HG23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:221:THR:O	5:k:334:ARG:NH1	2.38	0.57
11:q:47:LYS:NZ	15:u:5:SER:O	2.25	0.57
20:z:140:GLU:O	20:z:143:ILE:HG13	2.04	0.57
41:AN:77:ILE:HB	41:AN:79:GLU:OE1	2.05	0.57
45:i:68:ARG:HE	66:T:146:ALA:CB	2.17	0.57
1:AR:59:G:H2'	3:AT:33:A:O2'	2.04	0.57
12:CL:36:LEU:HD21	12:CL:69:ARG:HD3	1.87	0.57
47:A:494:U:O2'	47:A:495:C:O5'	2.20	0.57
50:D:218:ILE:O	50:D:221:THR:OG1	2.16	0.57
51:E:79:TYR:HE2	51:E:84:ILE:HD12	1.70	0.57
61:O:114:ARG:O	61:O:118:ILE:HD12	2.03	0.57
47:sR:52:U:H2'	47:sR:53:G:C8	2.39	0.57
47:sR:647:G:N2	47:sR:687:G:N2	2.52	0.57
47:sR:1681:A:H1'	54:s6:66:GLY:HA3	1.87	0.57
57:s9:109:LEU:HB2	57:s9:146:PHE:HB3	1.86	0.57
59:c1:98:ASN:HB3	70:d2:79:PHE:HE1	1.70	0.57
62:c4:99:GLN:OE1	74:d6:46:GLU:N	2.36	0.57
66:c8:91:ASP:O	66:c8:92:ILE:HB	2.04	0.57
66:c8:141:THR:HG22	66:c8:142:GLY:H	1.68	0.57
1:1:623:U:O3'	34:AG:86:ARG:NH2	2.37	0.57
1:1:1014:U:H3	1:1:1036:A:H61	1.51	0.57
7:m:68:THR:HG22	7:m:70:THR:H	1.69	0.57
45:i:61:ILE:HG13	66:T:128:PHE:CD2	2.40	0.57
1:AR:2181:C:OP1	4:CD:193:ARG:NH1	2.33	0.57
1:AR:2278:C:H5''	81:AR:3589:OHX:N3	2.19	0.57
1:AR:2882:U:H2'	1:AR:2883:U:C6	2.39	0.57
10:CJ:221:ASN:OD1	10:CJ:221:ASN:N	2.36	0.57
15:CO:25:LYS:HD2	15:CO:62:GLN:HG2	1.86	0.57
47:A:61:A:H8	47:A:269:G:O2'	1.88	0.57
47:A:1195:C:N4	64:R:143:ARG:HA	2.20	0.57
50:D:37:PRO:HG3	50:D:46:LYS:HD3	1.87	0.57
53:G:129:PRO:HA	53:G:132:VAL:HG22	1.86	0.57
63:Q:18:ARG:NH1	66:T:90:ASN:O	2.36	0.57
74:b:23:CYS:CB	74:b:74:CYS:HB3	2.34	0.57
79:g:90:LYS:O	79:g:90:LYS:HD2	2.03	0.57
47:sR:259:U:C4'	56:s8:178:ARG:HH12	2.17	0.57
47:sR:291:G:H2'	47:sR:292:U:C6	2.39	0.57
47:sR:604:A:OP2	81:sR:2002:OHX:N1	2.38	0.57
47:sR:986:G:OP2	81:sR:1974:OHX:N2	2.38	0.57
47:sR:1606:C:H2'	47:sR:1607:G:C8	2.39	0.57
51:s3:141:LYS:HB3	51:s3:145:ALA:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:s5:214:LYS:O	53:s5:219:ARG:NH1	2.37	0.57
55:s7:51:VAL:HG22	55:s7:55:LYS:O	2.04	0.57
57:s9:121:SER:OG	57:s9:124:HIS:N	2.34	0.57
4:j:116:VAL:HB	4:j:126:LEU:HB2	1.86	0.57
5:k:305:ILE:HD11	5:k:321:PHE:CE1	2.40	0.57
9:o:136:TYR:CZ	9:o:231:ASN:HB2	2.40	0.57
9:o:178:ILE:HG23	9:o:183:ASP:HB3	1.86	0.57
13:s:107:ASP:OD1	13:s:107:ASP:N	2.31	0.57
13:s:108:GLU:HG2	13:s:110:ILE:HD11	1.86	0.57
1:AR:84:U:O2'	1:AR:101:G:O6	2.17	0.57
1:AR:120:G:N7	10:CJ:128:LYS:HD3	2.19	0.57
1:AR:728:G:OP1	81:AR:3676:OHX:N6	2.38	0.57
1:AR:1103:A:O2'	1:AR:1104:G:OP1	2.20	0.57
1:AR:1348:U:H4'	1:AR:1349:G:OP1	2.05	0.57
1:AR:3230:G:C5'	15:CO:132:LYS:HD2	2.34	0.57
9:CI:132:PRO:HA	9:CI:229:PHE:CG	2.40	0.57
47:A:418:G:H1'	54:H:59:GLN:NE2	2.19	0.57
47:A:922:G:H2'	47:A:923:A:C8	2.40	0.57
48:B:49:ASN:HD22	48:B:52:LYS:HE3	1.69	0.57
48:B:55:GLU:O	48:B:58:VAL:HG22	2.04	0.57
56:J:190:ALA:HA	56:J:193:LEU:HG	1.85	0.57
62:P:20:TYR:HA	62:P:84:ARG:O	2.04	0.57
70:X:6:VAL:CG2	70:X:29:PRO:HD2	2.35	0.57
65:c7:105:GLN:HA	65:c7:108:ASP:H	1.69	0.57
1:1:819:U:H2'	1:1:820:A:H8	1.69	0.57
1:1:2369:G:H2'	1:1:2370:G:C8	2.40	0.57
1:1:2429:G:H2'	1:1:2430:A:C8	2.39	0.57
2:3:1:G:H4'	7:m:273:ARG:NH1	2.19	0.57
13:s:75:LYS:O	13:s:79:ILE:HG13	2.05	0.57
23:5:37:LEU:H	23:5:37:LEU:HD12	1.70	0.57
26:8:80:ASN:ND2	26:8:132:ALA:H	2.03	0.57
1:AR:1119:C:OP2	81:AR:3486:OHX:N2	2.38	0.57
1:AR:1795:U:O2	81:AR:3681:OHX:N6	2.38	0.57
1:AR:1836:C:N4	40:DN:3:ALA:HB2	2.20	0.57
1:AR:2555:G:N1	35:DI:96:GLU:OE2	2.36	0.57
1:AR:3139:A:OP2	5:CE:30:LYS:NZ	2.29	0.57
2:AS:86:U:O2	81:AS:3501:OHX:N6	2.38	0.57
12:CL:99:ILE:HD11	12:CL:101:LYS:HD3	1.87	0.57
14:CN:119:TYR:HD1	14:CN:145:PHE:CE2	2.23	0.57
14:CN:168:ARG:CZ	14:CN:172:LEU:HD11	2.34	0.57
26:CZ:82:LEU:HB2	26:CZ:124:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DB:73:LYS:HG2	28:DB:74:VAL:O	2.04	0.57
44:DR:74:ALA:O	44:DR:78:THR:HG23	2.05	0.57
47:A:458:G:OP1	72:Z:109:LYS:NZ	2.28	0.57
47:A:935:U:C4	74:b:15:ARG:NH2	2.70	0.57
47:A:1150:G:O6	81:A:2139:OHX:N4	2.38	0.57
70:X:27:ILE:HG12	70:X:61:ILE:HB	1.86	0.57
47:sR:891:A:H2'	47:sR:892:A:C8	2.39	0.57
47:sR:1114:G:O2'	47:sR:1130:G:O6	2.22	0.57
47:sR:1285:U:O2'	47:sR:1286:U:OP1	2.22	0.57
47:sR:1539:G:H5'	47:sR:1539:G:H8	1.69	0.57
47:sR:1559:A:H5''	66:c8:135:GLY:HA3	1.85	0.57
47:sR:1698:G:O2'	47:sR:1699:G:O5'	2.21	0.57
53:s5:200:ASN:HB3	53:s5:208:SER:OG	2.04	0.57
54:s6:10:ASN:HB3	54:s6:128:THR:HA	1.87	0.57
67:c9:126:GLU:O	67:c9:130:ARG:HG2	2.04	0.57
73:d5:44:GLN:HA	73:d5:47:TYR:HB3	1.87	0.57
75:d7:55:THR:HG22	75:d7:61:THR:O	2.04	0.57
1:1:507:U:H2'	1:1:508:U:C6	2.40	0.57
1:1:2093:A:H2'	1:1:2094:C:O4'	2.04	0.57
13:s:116:TYR:CE2	13:s:118:PRO:HB3	2.40	0.57
22:2:127:GLN:NE2	22:2:127:GLN:O	2.37	0.57
34:AG:15:SER:HB3	34:AG:29:LEU:HD12	1.85	0.57
35:AH:46:ASP:OD1	35:AH:80:ARG:NH1	2.37	0.57
1:AR:1534:A:OP1	81:AR:3423:OHX:N2	2.38	0.57
1:AR:2144:A:H1'	1:AR:2281:A:N6	2.19	0.57
1:AR:2369:G:OP2	81:AR:3410:OHX:N5	2.38	0.57
1:AR:2534:G:O6	81:AR:3541:OHX:N6	2.38	0.57
1:AR:3198:U:H1'	11:CK:21:LYS:HB2	1.86	0.57
2:AS:27:A:H2'	2:AS:28:C:C6	2.40	0.57
15:CO:66:THR:HG22	15:CO:68:LEU:H	1.68	0.57
20:CT:17:VAL:HG21	20:CT:52:LYS:HE2	1.85	0.57
47:A:874:C:OP1	81:A:1906:OHX:N2	2.37	0.57
47:A:1366:U:H4'	67:U:7:ARG:CD	2.34	0.57
47:A:1483:A:C2	47:A:1607:G:H1'	2.40	0.57
48:B:67:ILE:HG22	48:B:119:ARG:HH21	1.68	0.57
49:C:134:VAL:C	49:C:217:LEU:HG	2.30	0.57
50:D:47:ALA:O	50:D:49:LYS:N	2.31	0.57
50:D:169:LEU:HB3	50:D:196:VAL:HG21	1.86	0.57
51:E:175:VAL:CG1	51:E:182:LEU:HB2	2.35	0.57
52:F:77:ARG:HG3	52:F:82:TYR:CE2	2.39	0.57
56:J:84:HIS:CD2	56:J:90:LEU:HD13	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:M:42:PHE:HD1	59:M:141:LYS:HG3	1.69	0.57
61:O:55:ARG:HA	61:O:60:VAL:O	2.05	0.57
66:T:82:PRO:HG2	66:T:85:PHE:HB2	1.87	0.57
75:c:36:LYS:HA	75:c:43:ILE:HG21	1.87	0.57
80:h:157:VAL:CG1	80:h:168:THR:H	2.16	0.57
47:sR:30:G:H2'	47:sR:31:C:C6	2.40	0.57
47:sR:52:U:H2'	47:sR:53:G:H8	1.69	0.57
47:sR:591:A:H2'	47:sR:592:A:H8	1.69	0.57
47:sR:683:C:N4	47:sR:684:A:N7	2.53	0.57
47:sR:852:C:H2'	47:sR:853:G:H8	1.69	0.57
47:sR:1235:C:H2'	47:sR:1236:A:H8	1.70	0.57
80:Rb:179:LYS:HD3	80:Rb:181:TRP:CZ2	2.40	0.57
55:s7:73:VAL:HG12	55:s7:76:LYS:HZ3	1.70	0.57
57:s9:119:ALA:O	57:s9:120:LYS:HG2	2.04	0.57
68:d0:35:GLU:HG2	68:d0:89:ARG:HH12	1.70	0.57
75:d7:72:LYS:NZ	75:d7:73:LEU:O	2.23	0.57
1:1:1277:C:OP1	81:1:4132:OHX:N2	2.38	0.57
1:1:1383:G:O6	81:1:3412:OHX:N1	2.37	0.57
1:1:2762:A:H2'	1:1:2763:U:H6	1.70	0.57
5:k:133:TYR:O	5:k:136:LYS:HG3	2.04	0.57
11:q:147:SER:HB2	11:q:187:ILE:HD11	1.86	0.57
1:AR:289:A:H2'	1:AR:290:G:H8	1.70	0.57
1:AR:1235:U:C4'	1:AR:1236:G:H5'	2.34	0.57
1:AR:3016:A:H2'	1:AR:3017:A:C8	2.39	0.57
1:AR:3157:U:H4'	1:AR:3158:G:C5'	2.35	0.57
5:CE:43:LEU:HB2	5:CE:208:VAL:HG11	1.87	0.57
17:CQ:193:GLN:O	17:CQ:197:LEU:HD12	2.05	0.57
37:DK:61:ILE:HD13	37:DK:69:ALA:HB1	1.86	0.57
43:DQ:22:GLN:O	43:DQ:75:VAL:HG23	2.05	0.57
46:p0:186:THR:OG1	46:p0:187:VAL:N	2.37	0.57
47:A:895:G:H2'	47:A:896:U:C6	2.40	0.57
47:A:1214:U:OP1	47:A:1246:C:H1'	2.05	0.57
47:A:1796:C:H4'	47:A:1797:A:OP2	2.04	0.57
48:B:140:ASN:HD21	69:W:29:HIS:CA	2.18	0.57
47:sR:1226:A:O2'	47:sR:1256:A:N6	2.38	0.57
47:sR:1588:G:O6	47:sR:1608:U:O4	2.22	0.57
80:Rb:157:VAL:HG11	80:Rb:168:THR:HB	1.87	0.57
48:s0:56:LYS:HZ1	48:s0:158:VAL:HA	1.69	0.57
49:s1:92:GLN:N	49:s1:95:ASN:O	2.36	0.57
49:s1:166:LYS:O	49:s1:170:GLU:HG2	2.05	0.57
72:d4:35:VAL:HB	72:d4:40:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:417:A:H2'	1:1:418:A:C8	2.40	0.57
1:1:1799:A:H2'	1:1:1800:A:C8	2.40	0.57
1:1:3057:U:H5'	1:1:3086:A:H61	1.70	0.57
12:r:99:ILE:HG22	12:r:123:HIS:HB2	1.86	0.57
37:AJ:79:SER:HB3	37:AJ:82:ARG:HG3	1.87	0.57
1:AR:426:G:H2'	1:AR:427:C:C6	2.40	0.57
1:AR:3267:A:H2'	8:CH:69:PHE:CZ	2.40	0.57
11:CK:132:VAL:HG21	11:CK:157:ASN:HD22	1.69	0.57
14:CN:136:GLU:CD	14:CN:136:GLU:H	2.13	0.57
39:DM:64:LYS:HD3	39:DM:65:LEU:N	2.20	0.57
47:A:607:G:H5'	47:A:613:G:N2	2.20	0.57
47:A:676:G:O6	47:A:677:G:N2	2.38	0.57
47:A:1564:U:H2'	47:A:1565:C:H6	1.69	0.57
60:N:124:LYS:HD2	60:N:125:ASN:HB3	1.87	0.57
80:h:264:SER:O	80:h:268:GLN:HA	2.05	0.57
47:sR:404:G:H2'	47:sR:405:C:H6	1.70	0.57
47:sR:1017:U:H2'	47:sR:1018:U:H6	1.68	0.57
80:Rb:198:ASN:HD21	65:c7:23:LYS:HD2	1.70	0.57
48:s0:105:GLY:O	48:s0:109:ASN:HB3	2.04	0.57
51:s3:22:ASN:O	51:s3:26:THR:HG23	2.03	0.57
53:s5:199:ILE:HA	53:s5:202:ALA:HB3	1.86	0.57
55:s7:103:SER:OG	55:s7:104:ARG:N	2.38	0.57
63:c5:18:ARG:CZ	66:c8:92:ILE:HD13	2.34	0.57
63:c5:108:ARG:HB3	63:c5:110:GLU:OE1	2.05	0.57
72:d4:54:ALA:HB2	72:d4:79:VAL:HA	1.87	0.57
74:d6:51:ARG:O	74:d6:55:GLU:HG2	2.05	0.57
1:1:75:G:H5''	14:t:58:VAL:HG22	1.87	0.56
1:1:138:U:H2'	1:1:139:G:H8	1.70	0.56
1:1:307:A:H2'	1:1:308:A:C8	2.40	0.56
1:1:1232:C:H2'	1:1:1233:G:O4'	2.05	0.56
1:1:1856:C:OP2	81:1:3606:OHX:N5	2.38	0.56
1:1:2725:U:O4	81:1:4143:OHX:N5	2.38	0.56
5:k:83:PRO:O	5:k:165:GLN:NE2	2.33	0.56
13:s:21:ILE:HD11	13:s:37:LEU:HD23	1.86	0.56
17:w:35:VAL:HG21	17:w:80:PHE:HE2	1.70	0.56
26:8:47:ALA:HB3	36:AI:77:PRO:HG3	1.87	0.56
1:AR:230:U:H2'	1:AR:231:G:O4'	2.05	0.56
1:AR:2617:U:H3'	30:DD:3:LYS:HD3	1.87	0.56
1:AR:2674:A:H5''	13:CM:105:GLY:HA3	1.86	0.56
1:AR:3119:U:OP2	81:AR:3419:OHX:N5	2.38	0.56
5:CE:305:ILE:HD11	5:CE:317:ILE:HG21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:107:ARG:NH2	7:CG:120:LYS:HA	2.19	0.56
11:CK:112:ILE:HB	11:CK:126:VAL:HG22	1.87	0.56
31:DE:101:LEU:HD12	31:DE:101:LEU:H	1.70	0.56
33:DG:103:LYS:O	33:DG:106:VAL:HG22	2.04	0.56
47:A:5:U:H2'	47:A:6:G:H8	1.70	0.56
47:A:22:A:OP2	81:A:2127:OHX:N4	2.38	0.56
47:A:565:C:N3	81:A:2110:OHX:N5	2.53	0.56
47:A:680:U:H2'	47:A:681:U:O4'	2.05	0.56
47:A:1530:C:OP1	73:a:95:HIS:HB2	2.05	0.56
47:A:1585:U:O3'	64:R:135:ARG:HG2	2.05	0.56
51:E:134:CYS:SG	51:E:135:GLU:N	2.77	0.56
53:G:112:ARG:HD2	64:R:43:ILE:HG12	1.87	0.56
65:S:21:TYR:HE2	65:S:61:ILE:HD11	1.69	0.56
80:h:3:SER:HB2	80:h:269:TYR:HE2	1.69	0.56
80:h:234:LEU:HD21	80:h:263:PHE:CG	2.40	0.56
47:sR:1558:U:H3	63:c5:122:THR:HG22	1.68	0.56
47:sR:1615:C:P	53:s5:81:ARG:HH21	2.29	0.56
80:Rb:132:LYS:HD3	80:Rb:143:THR:OG1	2.05	0.56
49:s1:39:GLU:H	49:s1:74:GLN:HE22	1.52	0.56
49:s1:131:ASP:CG	49:s1:180:THR:HG1	2.12	0.56
3:4:41:A:O2'	38:AK:59:THR:HG22	2.05	0.56
6:l:193:LYS:HA	6:l:198:ARG:HA	1.87	0.56
10:p:45:ASN:OD1	26:8:26:VAL:HA	2.04	0.56
11:q:128:VAL:HG23	11:q:132:VAL:HG23	1.87	0.56
13:s:80:LEU:O	13:s:84:LEU:HD22	2.05	0.56
14:t:30:GLY:O	14:t:33:VAL:HG22	2.05	0.56
21:0:34:GLU:HB3	21:0:61:ILE:HD13	1.85	0.56
28:AA:100:THR:HG21	28:AA:110:ALA:HB2	1.87	0.56
39:AL:29:LYS:HD2	39:AL:39:ARG:HB3	1.87	0.56
1:AR:1688:U:H2'	1:AR:1689:U:C6	2.40	0.56
1:AR:2344:U:H2'	1:AR:2345:A:C8	2.39	0.56
1:AR:2413:A:H2'	1:AR:2414:G:H8	1.70	0.56
1:AR:2427:U:H2'	1:AR:2428:U:C6	2.40	0.56
1:AR:3230:G:H4'	15:CO:132:LYS:HD2	1.87	0.56
4:CD:30:ARG:NH2	4:CD:33:ASP:OD1	2.37	0.56
23:CW:30:PRO:HA	23:CW:33:TYR:HB3	1.86	0.56
23:CW:75:TYR:CE1	23:CW:79:LEU:HD11	2.40	0.56
29:DC:86:LYS:HG2	29:DC:90:TYR:HE2	1.70	0.56
49:C:217:LEU:HD13	49:C:219:LYS:N	2.16	0.56
51:E:71:LEU:O	51:E:74:GLN:HB3	2.04	0.56
58:L:77:ARG:HA	58:L:82:LEU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:M:30:ARG:O	59:M:30:ARG:HG3	2.05	0.56
63:Q:23:GLU:O	63:Q:24:LYS:HD2	2.05	0.56
71:Y:95:PHE:CD2	71:Y:135:LEU:HB3	2.39	0.56
80:h:134:TRP:CE3	80:h:140:CYS:HB2	2.40	0.56
47:sR:791:A:H2'	47:sR:792:U:O4'	2.05	0.56
47:sR:829:A:H1'	47:sR:830:U:H5	1.69	0.56
47:sR:1146:G:O3'	50:s2:91:ARG:HA	2.05	0.56
47:sR:1413:U:H4'	47:sR:1414:U:OP2	2.05	0.56
49:s1:141:ALA:HB1	49:s1:207:LEU:HD22	1.86	0.56
58:c0:44:LYS:HZ3	58:c0:44:LYS:HB2	1.69	0.56
59:c1:111:VAL:HG23	59:c1:139:VAL:HG11	1.86	0.56
70:d2:6:VAL:HG23	70:d2:29:PRO:HD2	1.87	0.56
78:e0:14:VAL:O	78:e0:18:THR:OG1	2.20	0.56
1:1:629:U:H2'	1:1:630:A:C8	2.40	0.56
1:1:911:C:H42	4:j:3:ARG:HD3	1.69	0.56
1:1:1281:G:H2'	1:1:1282:G:H8	1.71	0.56
1:1:1629:U:O3'	28:AA:115:LYS:NZ	2.38	0.56
1:1:1794:G:H4'	4:j:191:LEU:HD13	1.86	0.56
1:1:2150:G:H4'	44:AQ:22:LEU:HD21	1.87	0.56
1:1:2316:G:OP1	81:1:3554:OHX:N5	2.39	0.56
1:1:2574:G:H2'	1:1:2575:G:H8	1.70	0.56
1:1:2747:A:H2'	1:1:2748:A:C8	2.39	0.56
1:1:2927:C:H2'	1:1:2928:C:C6	2.40	0.56
11:q:132:VAL:HG21	11:q:157:ASN:HD22	1.70	0.56
36:AI:62:GLN:O	36:AI:66:VAL:HG23	2.06	0.56
42:AO:22:ALA:HA	42:AO:25:LYS:HB3	1.87	0.56
44:AQ:74:ALA:O	44:AQ:78:THR:HG23	2.05	0.56
1:AR:121:A:C6	10:CJ:129:PRO:HG3	2.40	0.56
1:AR:1010:G:N2	12:CL:193:ASP:OD2	2.38	0.56
1:AR:1239:C:H42	1:AR:1249:G:H1	1.51	0.56
1:AR:3277:U:OP2	1:AR:3278:C:N4	2.39	0.56
1:AR:3294:A:H5''	5:CE:128:LYS:HG3	1.86	0.56
5:CE:308:MET:O	5:CE:363:SER:HB2	2.06	0.56
6:CF:300:ARG:HB2	6:CF:301:PRO:HD2	1.87	0.56
16:CP:192:LYS:O	16:CP:196:THR:OG1	2.22	0.56
17:CQ:171:LYS:O	17:CQ:175:THR:HG23	2.04	0.56
23:CW:104:ARG:C	23:CW:105:LEU:HD12	2.31	0.56
31:DE:100:ILE:HA	31:DE:103:THR:HG23	1.86	0.56
46:p0:53:MET:SD	46:p0:85:GLY:HA3	2.46	0.56
47:A:476:U:C2	78:f:31:LYS:HG3	2.39	0.56
47:A:747:C:H2'	47:A:748:U:C6	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:978:A:H2'	47:A:979:A:O4'	2.05	0.56
47:A:1324:G:OP2	81:A:1937:OHX:N1	2.38	0.56
47:A:1366:U:H4'	67:U:7:ARG:HD3	1.87	0.56
48:B:48:ILE:HG21	48:B:161:PRO:HB2	1.87	0.56
49:C:91:VAL:HG12	49:C:96:LEU:HA	1.87	0.56
49:C:142:PHE:O	49:C:207:LEU:HA	2.05	0.56
51:E:69:LEU:O	51:E:73:VAL:HG12	2.06	0.56
54:H:142:ARG:HG2	54:H:153:VAL:HG11	1.87	0.56
67:U:42:GLY:HA2	67:U:84:LYS:HB2	1.86	0.56
79:g:126:CYS:HB3	79:g:130:VAL:HG21	1.87	0.56
47:sR:78:A:O2'	54:s6:173:PRO:O	2.22	0.56
47:sR:492:A:H1'	47:sR:496:G:H1	1.70	0.56
47:sR:565:C:C2	81:sR:2007:OHX:N4	2.74	0.56
47:sR:896:U:H2'	47:sR:897:C:C6	2.41	0.56
47:sR:1317:C:H2'	47:sR:1318:G:O4'	2.06	0.56
47:sR:1344:A:H2'	47:sR:1345:A:C8	2.40	0.56
47:sR:1477:G:OP1	67:c9:43:ASN:HB3	2.06	0.56
47:sR:1628:U:H2'	47:sR:1629:G:H8	1.68	0.56
80:Rb:267:PRO:HD2	80:Rb:269:TYR:CE1	2.40	0.56
55:s7:28:GLU:O	55:s7:35:LYS:NZ	2.30	0.56
55:s7:73:VAL:HG23	55:s7:74:GLN:H	1.70	0.56
59:c1:55:ASP:OD2	59:c1:113:PRO:HD3	2.06	0.56
59:c1:111:VAL:HA	59:c1:139:VAL:CG1	2.35	0.56
61:c3:150:VAL:O	61:c3:151:ASN:HB2	2.04	0.56
64:c6:60:PHE:CE1	64:c6:89:LEU:HD22	2.40	0.56
65:c7:104:ASN:ND2	65:c7:122:ILE:O	2.39	0.56
66:c8:70:VAL:HG12	66:c8:74:GLN:HE21	1.70	0.56
75:d7:64:CYS:HB3	75:d7:73:LEU:HD13	1.86	0.56
77:d9:32:ARG:HG2	77:d9:37:ASN:OD1	2.04	0.56
1:l:2505:U:H2'	1:l:2506:U:C6	2.39	0.56
6:l:5:GLN:HA	6:l:20:LEU:O	2.06	0.56
6:l:361:HIS:O	21:0:28:ARG:NH1	2.37	0.56
7:m:232:ASP:O	7:m:235:SER:HB3	2.05	0.56
11:q:90:MET:HE1	11:q:161:LEU:HB3	1.88	0.56
11:q:181:VAL:HG13	41:AN:89:TYR:OH	2.05	0.56
16:v:153:ASP:OD1	16:v:155:VAL:HG13	2.06	0.56
21:0:2:ALA:HB3	21:0:32:SER:HB2	1.86	0.56
1:AR:693:A:H2'	1:AR:694:C:H6	1.70	0.56
1:AR:1798:A:H2'	1:AR:1799:A:C8	2.41	0.56
3:AT:37:A:H5''	3:AT:39:G:O4'	2.04	0.56
5:CE:25:ILE:HG23	5:CE:272:TYR:OH	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:47:ARG:NH2	6:CF:109:TRP:O	2.27	0.56
24:CX:87:ARG:HH22	24:CX:137:VAL:HG22	1.71	0.56
27:DA:45:ILE:HD12	27:DA:46:LYS:H	1.69	0.56
28:DB:85:TYR:HE2	28:DB:129:TRP:CE2	2.23	0.56
43:DQ:15:LYS:HA	43:DQ:18:ARG:HD3	1.86	0.56
47:A:142:G:O6	54:H:177:ARG:NH2	2.38	0.56
47:A:179:A:H2'	47:A:180:A:O4'	2.05	0.56
47:A:1147:A:H2'	47:A:1148:C:C6	2.41	0.56
48:B:38:PHE:HB2	48:B:49:ASN:HB2	1.88	0.56
49:C:217:LEU:HD22	49:C:218:LEU:H	1.70	0.56
52:F:11:ARG:O	52:F:12:LEU:HB2	2.06	0.56
54:H:180:THR:O	54:H:184:LEU:HD12	2.04	0.56
56:J:3:ILE:H	56:J:3:ILE:HD12	1.70	0.56
62:P:16:VAL:HA	62:P:79:VAL:HG21	1.85	0.56
62:P:117:ASP:OD1	62:P:119:THR:N	2.21	0.56
64:R:11:GLY:HA2	64:R:83:GLN:NE2	2.21	0.56
64:R:11:GLY:HA2	64:R:83:GLN:HE21	1.69	0.56
67:U:72:GLY:O	67:U:76:LEU:HD12	2.06	0.56
67:U:117:SER:HB2	67:U:123:ARG:HB2	1.87	0.56
75:c:80:ARG:HB2	75:c:80:ARG:NH1	2.21	0.56
47:sR:190:C:O2'	47:sR:191:C:O5'	2.22	0.56
47:sR:960:U:H1'	61:c3:52:VAL:HG22	1.87	0.56
47:sR:1161:C:OP1	81:sR:2022:OHX:N6	2.38	0.56
54:s6:121:LEU:O	54:s6:125:THR:HG22	2.05	0.56
58:c0:32:HIS:HB3	58:c0:35:ILE:O	2.05	0.56
63:c5:96:ILE:HD13	63:c5:116:LEU:HB3	1.88	0.56
65:c7:105:GLN:HA	65:c7:108:ASP:HB2	1.87	0.56
1:1:1000:C:OP1	81:1:3493:OHX:N3	2.38	0.56
1:1:2896:A:OP1	41:AN:102:ARG:HD3	2.05	0.56
1:1:3103:A:OP2	81:1:3612:OHX:N1	2.38	0.56
3:4:79:A:C3'	3:4:80:A:H4'	2.35	0.56
5:k:136:LYS:O	5:k:139:GLN:NE2	2.38	0.56
23:5:93:ILE:HA	23:5:106:ALA:O	2.06	0.56
39:AL:27:ILE:HD12	39:AL:27:ILE:O	2.06	0.56
1:AR:129:U:O4	81:AR:3433:OHX:N4	2.38	0.56
1:AR:874:U:OP1	5:CE:241:LYS:HG2	2.06	0.56
1:AR:2103:U:H2'	1:AR:2104:A:C8	2.40	0.56
1:AR:2261:G:HO2'	1:AR:2263:C:N4	2.03	0.56
1:AR:2537:U:O2'	1:AR:2538:U:O5'	2.19	0.56
28:DB:46:ILE:HD11	28:DB:48:ARG:C	2.31	0.56
31:DE:78:GLY:HA2	31:DE:87:VAL:HG22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:72:A:O2'	47:A:73:U:H5''	2.04	0.56
49:C:62:LYS:O	49:C:62:LYS:HD2	2.06	0.56
50:D:43:ARG:NH2	50:D:249:ALA:HB2	2.20	0.56
52:F:35:PRO:HD2	52:F:83:PRO:HG2	1.87	0.56
53:G:110:ALA:O	53:G:114:ILE:HD12	2.06	0.56
70:X:77:PRO:HG3	71:Y:7:ARG:O	2.05	0.56
47:sR:190:C:N4	47:sR:196:G:O6	2.38	0.56
47:sR:1356:U:H2'	47:sR:1357:A:C8	2.40	0.56
47:sR:1365:C:H5''	64:c6:28:LEU:HD13	1.87	0.56
50:s2:53:ILE:HG13	50:s2:72:LEU:HB3	1.87	0.56
50:s2:104:VAL:HG22	50:s2:132:ALA:HB1	1.86	0.56
54:s6:68:LEU:HB3	54:s6:69:LEU:CB	2.34	0.56
1:1:263:C:H2'	1:1:264:G:O4'	2.05	0.56
1:1:821:U:H2'	1:1:822:G:H8	1.71	0.56
1:1:1440:G:N7	81:1:3448:OHX:N2	2.54	0.56
1:1:2683:U:H2'	1:1:2684:C:C6	2.39	0.56
1:1:2960:C:H2'	1:1:2961:G:C8	2.40	0.56
32:AE:23:VAL:O	32:AE:28:ARG:NH1	2.39	0.56
43:AP:71:ARG:HH11	43:AP:71:ARG:HG2	1.68	0.56
1:AR:1597:C:H2'	1:AR:1598:G:H8	1.71	0.56
1:AR:1621:A:H2'	1:AR:1622:U:C6	2.40	0.56
1:AR:2407:C:H2'	1:AR:2408:U:H6	1.71	0.56
15:CO:20:VAL:O	15:CO:66:THR:HB	2.06	0.56
15:CO:55:ARG:HD3	21:CU:70:THR:OG1	2.05	0.56
16:CP:115:VAL:HG22	16:CP:134:LEU:HD23	1.88	0.56
22:CV:91:LEU:HD12	22:CV:96:ILE:HD11	1.87	0.56
28:DB:119:GLU:OE1	28:DB:119:GLU:N	2.31	0.56
36:DJ:119:LYS:HD3	36:DJ:120:ALA:N	2.16	0.56
37:DK:95:ALA:HA	37:DK:99:ARG:HH11	1.71	0.56
47:A:349:U:O4	81:A:2130:OHX:N5	2.38	0.56
47:A:702:G:O2'	47:A:703:G:O4'	2.22	0.56
49:C:27:LYS:HD3	49:C:49:ASN:HA	1.87	0.56
49:C:29:TRP:HA	49:C:46:THR:O	2.06	0.56
51:E:56:GLN:HA	51:E:59:LEU:HD12	1.86	0.56
53:G:159:ALA:H	53:G:225:ARG:CZ	2.19	0.56
67:U:109:GLU:HB2	67:U:114:VAL:HG13	1.87	0.56
78:f:14:VAL:O	78:f:18:THR:HG23	2.05	0.56
47:sR:711:U:H3'	47:sR:712:G:H8	1.69	0.56
47:sR:1164:G:H2'	47:sR:1165:G:H8	1.71	0.56
47:sR:1491:U:H4'	47:sR:1492:A:C5'	2.35	0.56
48:s0:188:LEU:HD13	48:s0:188:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:s5:208:SER:H	53:s5:212:LYS:HZ3	1.54	0.56
53:s5:215:ASP:HA	53:s5:219:ARG:NH2	2.20	0.56
65:c7:32:LYS:CG	65:c7:47:ARG:HH12	2.18	0.56
74:d6:87:ARG:HH21	74:d6:92:ARG:C	2.13	0.56
1:1:1669:C:OP1	35:AH:24:LYS:NZ	2.20	0.56
1:1:2897:A:H2'	1:1:2899:C:H5''	1.88	0.56
7:m:262:LYS:N	7:m:262:LYS:HD3	2.21	0.56
20:z:172:ARG:HD3	47:A:852:C:OP1	2.06	0.56
28:AA:89:VAL:N	28:AA:90:GLU:OE1	2.38	0.56
33:AF:4:LEU:HD22	33:AF:91:THR:HG22	1.86	0.56
38:AK:25:ARG:HG3	38:AK:25:ARG:O	2.06	0.56
1:AR:1818:U:H2'	1:AR:1819:U:O4'	2.06	0.56
1:AR:2268:U:H3'	1:AR:2269:U:H5''	1.87	0.56
2:AS:96:U:H2'	2:AS:97:A:H8	1.71	0.56
12:CL:161:GLY:O	12:CL:163:GLN:NE2	2.39	0.56
15:CO:14:LEU:H	15:CO:19:ARG:NH2	2.04	0.56
21:CU:6:GLU:OE2	21:CU:99:ARG:NH2	2.34	0.56
36:DJ:47:VAL:O	36:DJ:51:ILE:HD12	2.06	0.56
36:DJ:104:GLN:O	36:DJ:108:GLN:HG3	2.06	0.56
41:DO:93:LYS:HD2	41:DO:102:ARG:HD3	1.88	0.56
47:A:113:U:H4'	47:A:115:G:OP1	2.06	0.56
47:A:855:A:C2	47:A:857:U:H1'	2.41	0.56
48:B:71:GLU:HA	48:B:94:GLY:O	2.06	0.56
56:J:38:ILE:HA	56:J:60:ILE:O	2.06	0.56
64:R:140:LYS:HE3	64:R:142:TYR:CE1	2.41	0.56
47:sR:86:A:OP2	81:sR:2025:OHX:N2	2.39	0.56
47:sR:315:A:O2'	81:sR:2008:OHX:N4	2.39	0.56
47:sR:1097:U:H4'	47:sR:1098:U:C5'	2.35	0.56
55:s7:20:VAL:O	55:s7:24:PHE:HD1	1.88	0.56
57:s9:150:LEU:O	57:s9:153:GLU:HB2	2.05	0.56
62:c4:103:ARG:CD	74:d6:49:ALA:HB2	2.36	0.56
66:c8:28:ILE:HG12	66:c8:61:LEU:HD13	1.88	0.56
68:d0:109:GLU:O	68:d0:112:VAL:HG22	2.06	0.56
78:e0:24:THR:O	78:e0:26:LYS:HE3	2.05	0.56
1:1:816:A:OP2	38:AK:28:HIS:HE1	1.88	0.56
1:1:1561:G:O2'	1:1:1562:C:OP2	2.20	0.56
1:1:2219:A:H2'	1:1:2220:A:C8	2.41	0.56
1:1:2430:A:H2'	1:1:2431:C:H6	1.71	0.56
6:l:152:VAL:HG12	6:l:172:VAL:HG11	1.87	0.56
10:p:78:PHE:O	10:p:79:GLN:HG2	2.05	0.56
32:AE:13:THR:HG22	32:AE:72:ARG:CD	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1471:U:H4'	20:CT:3:ASN:HD22	1.71	0.56
1:AR:1867:A:H2'	1:AR:1868:G:C8	2.41	0.56
1:AR:2680:A:C2	13:CM:57:PHE:HB3	2.41	0.56
1:AR:3287:U:H2'	1:AR:3288:G:H5'	1.87	0.56
12:CL:50:VAL:HG12	12:CL:138:VAL:HG22	1.87	0.56
13:CM:55:ARG:HB3	13:CM:55:ARG:NH1	2.21	0.56
47:A:162:A:H3'	47:A:163:G:N2	2.17	0.56
47:A:589:C:OP1	78:f:42:ARG:NH2	2.39	0.56
47:A:1327:C:C2	47:A:1328:G:C8	2.93	0.56
51:E:61:GLU:CD	51:E:64:ARG:HH21	2.13	0.56
51:E:168:ILE:O	51:E:168:ILE:HD12	2.06	0.56
52:F:143:ASP:OD2	52:F:145:ARG:HD3	2.06	0.56
52:F:157:ASN:HD22	52:F:222:LEU:HD22	1.70	0.56
52:F:223:ASN:O	52:F:223:ASN:ND2	2.38	0.56
55:I:78:THR:O	55:I:82:GLU:OE1	2.24	0.56
60:N:32:LEU:HB2	60:N:41:LEU:HD13	1.88	0.56
64:R:54:LEU:HD21	64:R:108:ALA:O	2.05	0.56
66:T:33:THR:HA	66:T:38:VAL:CG2	2.36	0.56
47:sR:93:A:H1'	52:s4:3:ARG:HB3	1.88	0.56
47:sR:1370:U:H4'	47:sR:1371:A:H4'	1.87	0.56
47:sR:1405:G:H2'	47:sR:1406:A:H8	1.68	0.56
47:sR:1471:A:C8	47:sR:1540:G:H1'	2.40	0.56
80:Rb:219:GLU:HA	80:Rb:235:SER:HA	1.88	0.56
49:s1:38:PHE:CG	49:s1:73:LEU:HD23	2.40	0.56
56:s8:62:THR:HG22	56:s8:77:ARG:HG3	1.88	0.56
72:d4:8:ARG:HD2	72:d4:28:LEU:HD11	1.88	0.56
72:d4:55:VAL:HG23	72:d4:75:VAL:HG12	1.87	0.56
78:e0:41:THR:HA	78:e0:45:VAL:HG22	1.88	0.56
1:1:230:U:H2'	1:1:231:G:O4'	2.06	0.56
1:1:275:U:H2'	1:1:276:U:C6	2.41	0.56
1:1:1046:A:H2'	1:1:1049:C:C5	2.41	0.56
1:1:1767:C:H2'	1:1:1768:U:H6	1.69	0.56
5:k:169:THR:HG22	5:k:171:LEU:H	1.70	0.56
11:q:89:LYS:HG2	11:q:145:VAL:HG22	1.88	0.56
18:x:85:ALA:O	18:x:89:LYS:HG3	2.06	0.56
27:9:63:LYS:O	27:9:66:GLN:HG3	2.06	0.56
1:AR:2177:G:OP2	4:CD:128:ARG:NH1	2.39	0.56
1:AR:2557:A:H2	10:CJ:38:GLN:HA	1.70	0.56
1:AR:2686:A:OP2	81:AR:3420:OHX:N5	2.39	0.56
5:CE:208:VAL:O	5:CE:340:LYS:HE3	2.05	0.56
7:CG:76:ALA:CB	7:CG:109:THR:HG22	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:142:LEU:HB3	10:CJ:148:ALA:HB2	1.88	0.56
46:p0:19:LEU:HB2	46:p0:70:LEU:HD23	1.88	0.56
47:A:69:G:H2'	47:A:70:C:C6	2.41	0.56
47:A:329:G:H2'	47:A:330:G:H8	1.71	0.56
47:A:947:U:OP1	49:C:165:ARG:NH2	2.29	0.56
47:A:1171:A:H2'	47:A:1172:G:H8	1.71	0.56
47:A:1525:A:H2'	47:A:1526:A:C8	2.41	0.56
47:A:1542:G:N2	47:A:1569:A:OP2	2.39	0.56
48:B:121:VAL:HG13	48:B:143:VAL:HG22	1.87	0.56
48:B:137:SER:O	69:W:30:ALA:HA	2.06	0.56
51:E:29:LEU:HD22	51:E:32:GLU:OE1	2.06	0.56
53:G:34:GLN:O	53:G:37:GLN:NE2	2.34	0.56
53:G:157:ARG:HH21	53:G:224:ASN:ND2	2.03	0.56
53:G:161:ASP:HB3	76:d:54:LEU:CD1	2.35	0.56
54:H:186:ARG:O	54:H:190:GLN:HG2	2.06	0.56
55:I:154:LEU:HD21	55:I:183:PHE:HD2	1.70	0.56
61:O:120:SER:O	61:O:124:ARG:HG3	2.06	0.56
63:Q:17:TYR:CD2	63:Q:33:PHE:HE1	2.24	0.56
69:W:39:VAL:HA	69:W:45:ALA:HA	1.88	0.56
70:X:6:VAL:HG13	70:X:34:ILE:HD11	1.88	0.56
70:X:47:ILE:HG22	70:X:65:LEU:HB3	1.88	0.56
74:b:41:ILE:HD11	74:b:68:TYR:CD2	2.41	0.56
76:d:19:THR:HG23	76:d:25:VAL:HG23	1.86	0.56
47:sR:477:A:OP1	78:e0:31:LYS:HG2	2.06	0.56
47:sR:753:A:OP1	52:s4:186:GLY:HA3	2.06	0.56
47:sR:1516:A:H5''	68:d0:58:LEU:HD23	1.88	0.56
52:s4:124:GLY:HA2	52:s4:142:HIS:CE1	2.40	0.56
57:s9:81:VAL:C	57:s9:84:GLY:H	2.14	0.56
62:c4:30:VAL:HB	62:c4:39:ILE:CD1	2.33	0.56
65:c7:78:ARG:HA	65:c7:81:LYS:HD3	1.88	0.56
23:5:83:TYR:O	23:5:87:ASN:ND2	2.39	0.56
24:6:120:LYS:H	24:6:137:VAL:HG23	1.71	0.56
44:AQ:47:VAL:HA	44:AQ:56:THR:O	2.05	0.56
1:AR:629:U:H2'	1:AR:630:A:H8	1.70	0.56
1:AR:1019:G:N2	1:AR:1033:U:H3	2.04	0.56
1:AR:1470:U:OP1	81:AR:3457:OHX:N6	2.39	0.56
1:AR:1799:A:H2'	1:AR:1800:A:C8	2.41	0.56
3:AT:79:A:H5''	3:AT:80:A:OP2	2.05	0.56
6:CF:304:GLN:N	6:CF:304:GLN:OE1	2.39	0.56
8:CH:131:LYS:HD3	8:CH:132:ALA:N	2.21	0.56
11:CK:90:MET:HB2	11:CK:144:ILE:HG23	1.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:191:LYS:HB3	12:CL:213:PHE:CE1	2.40	0.56
19:CS:155:MET:HE3	29:DC:48:TYR:HA	1.87	0.56
23:CW:79:LEU:HD12	23:CW:79:LEU:N	2.21	0.56
24:CX:120:LYS:HB2	24:CX:137:VAL:HG23	1.88	0.56
47:A:1150:G:H2'	47:A:1768:G:H21	1.71	0.56
59:M:43:LYS:H	59:M:141:LYS:HZ1	1.54	0.56
74:b:74:CYS:SG	74:b:77:CYS:HB2	2.46	0.56
47:sR:119:A:H1'	47:sR:397:A:C5	2.41	0.56
47:sR:639:U:H4'	47:sR:640:U:O5'	2.06	0.56
80:Rb:56:VAL:HB	64:c6:100:GLN:OE1	2.06	0.56
50:s2:139:ILE:HD11	50:s2:191:ALA:O	2.06	0.56
50:s2:157:LYS:HG2	50:s2:170:ILE:HG23	1.88	0.56
55:s7:20:VAL:HA	55:s7:23:ALA:HB3	1.88	0.56
57:s9:44:ARG:O	57:s9:48:GLN:HG3	2.05	0.56
57:s9:65:LYS:HA	57:s9:70:LEU:HD21	1.88	0.56
1:1:1576:G:H3'	1:1:1577:G:C8	2.40	0.55
10:p:161:GLU:HA	10:p:164:VAL:HG22	1.88	0.55
10:p:170:CYS:SG	10:p:177:TYR:HB3	2.46	0.55
3:AT:40:A:H2'	3:AT:41:A:C8	2.41	0.55
21:CU:73:LYS:NZ	21:CU:97:VAL:O	2.34	0.55
22:CV:39:ILE:HD12	22:CV:102:ARG:HD2	1.88	0.55
29:DC:93:SER:O	29:DC:93:SER:OG	2.22	0.55
42:DP:8:LYS:HD3	42:DP:12:ARG:NH2	2.22	0.55
43:DQ:11:TYR:HE1	43:DQ:13:LYS:HB3	1.71	0.55
46:p0:79:PHE:CE2	46:p0:189:GLN:HG3	2.41	0.55
49:C:69:CYS:SG	49:C:70:LEU:N	2.78	0.55
57:K:162:SER:O	57:K:164:PHE:N	2.38	0.55
58:L:50:THR:HG22	58:L:55:VAL:HG13	1.86	0.55
63:Q:54:ALA:O	63:Q:56:PHE:N	2.39	0.55
72:Z:84:LYS:HG3	72:Z:85:PHE:CD1	2.42	0.55
80:h:16:HIS:NE2	80:h:37:SER:HB3	2.21	0.55
80:h:85:TRP:HE1	80:h:111:MET:HE1	1.71	0.55
47:sR:783:G:OP2	72:d4:14:SER:OG	2.24	0.55
47:sR:836:U:H2'	47:sR:837:G:H8	1.71	0.55
47:sR:1018:U:H2'	47:sR:1019:A:H8	1.72	0.55
80:Rb:96:THR:HG23	80:Rb:98:GLU:N	2.20	0.55
80:Rb:147:HIS:HA	80:Rb:179:LYS:HE2	1.86	0.55
48:s0:157:ASP:OD1	69:d1:60:ARG:NH1	2.40	0.55
51:s3:17:PHE:CE1	51:s3:21:LEU:HD21	2.41	0.55
63:c5:90:ILE:HG21	63:c5:109:PRO:HG3	1.88	0.55
64:c6:131:GLY:HA3	64:c6:136:SER:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:d2:15:ASN:ND2	70:d2:72:CYS:O	2.39	0.55
1:1:979:U:H1'	1:1:980:A:N7	2.22	0.55
1:1:1221:A:H3'	1:1:1222:G:H5''	1.88	0.55
1:1:1310:G:N7	81:1:3524:OHX:N5	2.55	0.55
1:1:3284:G:OP1	81:1:3604:OHX:N3	2.39	0.55
1:1:3294:A:H2'	1:1:3295:A:O4'	2.06	0.55
7:m:107:ARG:HE	7:m:110:LEU:HD12	1.71	0.55
10:p:149:LYS:HG3	10:p:201:THR:O	2.05	0.55
15:u:13:ARG:NH1	15:u:65:LEU:O	2.40	0.55
45:i:140:ASP:OD1	45:i:140:ASP:N	2.34	0.55
1:AR:1482:A:N7	1:AR:1866:C:O2'	2.36	0.55
1:AR:2298:U:O4	1:AR:2923:U:H5	1.89	0.55
1:AR:3084:C:OP2	81:AR:3407:OHX:N3	2.39	0.55
10:CJ:42:PRO:HD2	10:CJ:44:ARG:NH1	2.21	0.55
10:CJ:55:TYR:HA	10:CJ:58:VAL:HG12	1.87	0.55
17:CQ:51:LYS:HE2	17:CQ:144:SER:HB2	1.88	0.55
28:DB:58:GLY:HA3	28:DB:61:LYS:NZ	2.20	0.55
31:DE:55:GLU:HA	35:DI:94:LEU:HD11	1.88	0.55
47:A:641:G:H2'	47:A:642:G:C8	2.41	0.55
47:A:641:G:H2'	47:A:642:G:H8	1.71	0.55
47:A:1070:C:H2'	47:A:1071:U:C6	2.41	0.55
48:B:22:THR:CG2	48:B:169:SER:HB2	2.27	0.55
49:C:67:GLU:N	49:C:67:GLU:OE1	2.39	0.55
53:G:31:GLU:HA	53:G:34:GLN:HB2	1.88	0.55
54:H:175:ILE:HD11	54:H:178:LEU:HD22	1.88	0.55
70:X:115:GLU:HG3	70:X:119:LYS:HZ3	1.71	0.55
76:d:54:LEU:HD22	76:d:55:VAL:H	1.72	0.55
47:sR:346:G:C5'	59:c1:79:LYS:HG3	2.37	0.55
47:sR:417:A:H4'	47:sR:418:G:O5'	2.07	0.55
47:sR:522:U:OP1	72:d4:37:LYS:HG2	2.06	0.55
47:sR:967:A:OP2	61:c3:124:ARG:NH2	2.33	0.55
47:sR:1015:U:OP1	81:sR:1912:OHX:N1	2.38	0.55
47:sR:1332:C:H4'	51:s3:203:PRO:HB3	1.87	0.55
48:s0:120:LEU:HD23	48:s0:121:VAL:N	2.21	0.55
57:s9:174:ARG:O	57:s9:174:ARG:HD3	2.07	0.55
64:c6:58:ASP:OD1	64:c6:59:LYS:NZ	2.36	0.55
66:c8:12:GLN:O	66:c8:59:GLY:HA2	2.05	0.55
70:d2:27:ILE:HB	70:d2:61:ILE:HB	1.88	0.55
1:1:1334:U:O2'	9:o:151:ARG:NH2	2.38	0.55
1:1:1498:A:H2'	1:1:1499:C:H6	1.70	0.55
1:1:1566:A:N6	1:1:1567:U:O2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1637:A:H5''	28:AA:15:ARG:O	2.06	0.55
1:1:2874:G:N2	1:1:2945:G:N7	2.53	0.55
1:1:3067:C:H5''	20:z:58:HIS:CD2	2.41	0.55
6:l:135:VAL:O	6:l:140:HIS:HB2	2.07	0.55
14:t:79:GLU:CD	14:t:112:ASN:HD22	2.14	0.55
39:AL:58:ASP:OD2	39:AL:61:LYS:N	2.27	0.55
1:AR:1352:A:H4'	1:AR:1353:U:OP1	2.06	0.55
1:AR:1781:C:H2'	1:AR:1782:U:C6	2.40	0.55
7:CG:153:THR:HG23	7:CG:160:PHE:HZ	1.71	0.55
8:CH:145:LEU:O	8:CH:149:ILE:HG13	2.05	0.55
24:CX:93:LEU:HD23	24:CX:93:LEU:H	1.71	0.55
29:DC:138:ILE:HD11	29:DC:145:VAL:CG1	2.36	0.55
47:A:206:A:OP2	81:A:1950:OHX:N5	2.38	0.55
48:B:53:THR:O	48:B:57:LEU:HD12	2.06	0.55
48:B:98:ILE:HD11	48:B:116:LYS:HD3	1.87	0.55
52:F:54:TYR:CD1	72:Z:15:ASN:ND2	2.75	0.55
54:H:98:ARG:HD3	54:H:99:GLY:H	1.69	0.55
71:Y:95:PHE:HE2	71:Y:135:LEU:HB3	1.70	0.55
74:b:84:VAL:HG13	74:b:85:ARG:H	1.71	0.55
47:sR:251:A:C2	52:s4:131:LEU:HD12	2.37	0.55
47:sR:699:U:O4	81:sR:1930:OHX:N1	2.39	0.55
48:s0:198:MET:HG3	48:s0:199:PRO:HD2	1.87	0.55
64:c6:18:ALA:HB2	64:c6:69:VAL:HG13	1.87	0.55
66:c8:63:GLN:HA	66:c8:66:LEU:HB3	1.88	0.55
72:d4:78:SER:OG	72:d4:80:ALA:N	2.39	0.55
1:1:900:G:H1'	1:1:1589:A:H61	1.71	0.55
1:1:1734:G:O6	81:1:3439:OHX:N3	2.39	0.55
1:1:3122:A:O2'	11:q:63:LYS:HD3	2.06	0.55
3:4:27:U:H4'	6:l:51:ALA:HB3	1.87	0.55
14:t:74:GLY:HA3	14:t:98:ASP:CB	2.36	0.55
24:6:15:LEU:HD23	24:6:53:SER:HB3	1.88	0.55
1:AR:1497:C:HO2'	1:AR:1602:A:HO2'	1.55	0.55
1:AR:2432:A:OP2	81:AR:3618:OHX:N2	2.40	0.55
2:AS:22:A:H2'	2:AS:23:A:C8	2.41	0.55
9:CI:62:ILE:O	9:CI:66:LYS:HG3	2.06	0.55
20:CT:3:ASN:ND2	20:CT:5:ARG:HB2	2.19	0.55
20:CT:106:LEU:HD13	20:CT:138:LEU:HD21	1.87	0.55
32:DF:31:ARG:O	32:DF:35:GLU:HB2	2.06	0.55
39:DM:8:ILE:H	39:DM:8:ILE:HD12	1.71	0.55
47:A:320:U:H3'	47:A:321:C:C5'	2.33	0.55
47:A:992:A:H2'	47:A:993:A:H5'	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1203:A:OP2	81:A:2138:OHX:N3	2.40	0.55
48:B:25:GLY:CA	48:B:48:ILE:HD11	2.36	0.55
49:C:119:THR:HG1	49:C:155:TYR:HD1	1.54	0.55
49:C:143:THR:HG21	49:C:154:SER:O	2.07	0.55
52:F:126:VAL:CG1	52:F:156:VAL:HA	2.35	0.55
57:K:34:PHE:HE2	57:K:106:GLU:HG2	1.71	0.55
57:K:102:GLU:HA	57:K:105:LEU:HD13	1.89	0.55
57:K:110:GLN:HA	57:K:129:ILE:HD11	1.89	0.55
64:R:47:LYS:HZ1	64:R:82:ARG:NH2	1.99	0.55
47:sR:822:U:H2'	47:sR:823:G:H5''	1.89	0.55
47:sR:852:C:H2'	47:sR:853:G:C8	2.41	0.55
47:sR:992:A:OP1	81:sR:1910:OHX:N5	2.39	0.55
47:sR:1359:C:O2	67:c9:3:GLY:HA2	2.06	0.55
47:sR:1459:C:OP2	66:c8:138:THR:OG1	2.23	0.55
48:s0:9:LEU:HD11	48:s0:14:ALA:HB2	1.88	0.55
48:s0:38:PHE:C	48:s0:39:ASN:HD22	2.08	0.55
50:s2:40:LYS:CG	50:s2:247:ALA:HB1	2.36	0.55
53:s5:207:THR:HA	53:s5:212:LYS:HZ1	1.69	0.55
55:s7:172:VAL:O	55:s7:176:LEU:HD12	2.07	0.55
66:c8:94:ASP:OD2	66:c8:98:TYR:OH	2.23	0.55
67:c9:123:ARG:HG3	67:c9:124:ILE:O	2.07	0.55
1:l:1306:G:C6	17:w:62:THR:HA	2.41	0.55
1:l:2882:U:H2'	1:l:2883:U:C6	2.42	0.55
1:l:3351:U:O2'	1:l:3352:U:OP1	2.24	0.55
6:l:9:HIS:CD2	6:l:15:ALA:HB2	2.42	0.55
10:p:176:PRO:HB2	10:p:218:ILE:HD11	1.87	0.55
11:q:3:TYR:HA	21:0:142:GLN:NE2	2.20	0.55
18:x:32:THR:HA	18:x:58:ILE:HD12	1.89	0.55
1:AR:2923:U:O4	81:AR:3559:OHX:N4	2.40	0.55
4:CD:40:TYR:HA	4:CD:90:ALA:O	2.07	0.55
47:A:771:A:OP1	57:K:9:SER:OG	2.15	0.55
47:A:924:A:O2'	47:A:987:G:OP1	2.24	0.55
47:A:1539:G:C2	66:T:30:TYR:HE2	2.24	0.55
47:A:1642:G:O6	81:A:2103:OHX:N1	2.39	0.55
49:C:134:VAL:O	49:C:217:LEU:HG	2.06	0.55
50:D:40:LYS:HG3	50:D:247:ALA:HB1	1.89	0.55
50:D:156:THR:HB	70:X:95:PRO:HB3	1.87	0.55
51:E:46:THR:O	51:E:84:ILE:HA	2.07	0.55
52:F:159:THR:HG22	52:F:160:VAL:H	1.71	0.55
53:G:146:THR:HG21	53:G:220:VAL:HG23	1.89	0.55
53:G:149:VAL:HG12	53:G:156:ARG:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N:63:VAL:HG13	60:N:92:ALA:HA	1.88	0.55
61:O:89:TYR:CZ	61:O:93:LYS:HD2	2.41	0.55
80:h:4:ASN:HD22	80:h:4:ASN:C	2.14	0.55
80:h:68:VAL:HG12	80:h:84:SER:HB2	1.88	0.55
47:sR:178:U:O4	54:s6:194:LYS:HE2	2.06	0.55
47:sR:1713:G:H2'	47:sR:1714:A:H8	1.71	0.55
48:s0:17:LEU:HB3	48:s0:22:THR:CG2	2.37	0.55
50:s2:226:THR:HG22	50:s2:228:ASN:H	1.71	0.55
52:s4:95:THR:HB	72:d4:16:PRO:HG2	1.89	0.55
53:s5:207:THR:HA	53:s5:212:LYS:NZ	2.21	0.55
1:1:1498:A:OP1	20:z:6:THR:HG22	2.06	0.55
1:1:1720:U:OP2	20:z:120:TYR:OH	2.12	0.55
1:1:1751:G:H5''	39:AL:26:LYS:HE3	1.89	0.55
1:1:3016:A:H2'	1:1:3017:A:H8	1.71	0.55
10:p:168:ALA:HB3	37:AJ:47:ILE:HD11	1.89	0.55
11:q:103:ILE:HG23	11:q:136:PHE:HE1	1.70	0.55
11:q:106:LYS:H	11:q:109:ALA:HB3	1.71	0.55
29:AB:71:PRO:HB2	29:AB:109:TYR:HA	1.88	0.55
31:AD:13:LYS:HD2	31:AD:99:ASP:OD1	2.06	0.55
33:AF:126:LEU:HD13	33:AF:128:LEU:HD12	1.89	0.55
45:i:107:ASN:CG	45:i:112:ASP:HB3	2.31	0.55
1:AR:849:C:H2'	1:AR:850:U:C6	2.41	0.55
1:AR:1472:U:H5'	20:CT:4:LEU:HB2	1.89	0.55
1:AR:2153:U:OP1	4:CD:246:LEU:HB3	2.07	0.55
1:AR:2581:U:H2'	1:AR:2582:C:H6	1.72	0.55
1:AR:2908:G:N7	81:AR:3404:OHX:N4	2.55	0.55
27:DA:74:TYR:CZ	27:DA:77:LYS:HE3	2.42	0.55
35:DI:107:GLU:HA	35:DI:110:GLU:HG2	1.89	0.55
37:DK:58:ILE:HD12	37:DK:59:ASP:N	2.20	0.55
47:A:205:U:C2	47:A:206:A:C8	2.94	0.55
47:A:836:U:H2'	47:A:837:G:H8	1.72	0.55
47:A:836:U:H2'	47:A:837:G:C8	2.42	0.55
47:A:1065:A:OP1	81:A:1906:OHX:N3	2.40	0.55
48:B:101:ARG:HD3	48:B:103:THR:H	1.71	0.55
48:B:135:GLU:O	48:B:139:VAL:HG22	2.06	0.55
50:D:53:ILE:HD11	50:D:110:HIS:CD2	2.42	0.55
52:F:128:LYS:HB2	52:F:140:VAL:HG22	1.89	0.55
53:G:62:VAL:CG1	53:G:89:ILE:HG12	2.36	0.55
60:N:73:LYS:CD	79:g:108:VAL:HG21	2.36	0.55
62:P:16:VAL:N	62:P:79:VAL:HG21	2.22	0.55
67:U:23:GLN:HG2	67:U:55:TYR:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:U:93:HIS:O	67:U:94:ILE:HD13	2.07	0.55
80:h:37:SER:OG	80:h:38:ARG:N	2.37	0.55
47:sR:85:A:OP1	81:sR:2025:OHX:N4	2.40	0.55
47:sR:1071:U:H2'	47:sR:1072:C:C6	2.41	0.55
53:s5:214:LYS:HA	53:s5:217:LEU:HD22	1.89	0.55
62:c4:99:GLN:HG2	74:d6:46:GLU:CG	2.36	0.55
63:c5:49:MET:HE2	63:c5:49:MET:HA	1.87	0.55
67:c9:135:ILE:HA	67:c9:138:GLN:NE2	2.21	0.55
75:d7:23:THR:HG21	75:d7:29:ARG:HH12	1.71	0.55
1:1:531:G:H2'	1:1:532:A:C8	2.42	0.55
1:1:905:U:O2'	1:1:910:G:O3'	2.25	0.55
10:p:86:THR:O	10:p:90:THR:OG1	2.23	0.55
13:s:133:ARG:NH2	13:s:158:ASP:OD2	2.37	0.55
17:w:42:ASN:ND2	17:w:125:ARG:HD3	2.21	0.55
19:y:8:LYS:NZ	30:AC:18:ARG:HH22	2.03	0.55
37:AJ:74:LYS:HD2	37:AJ:80:PHE:CD1	2.41	0.55
43:AP:71:ARG:NH1	43:AP:80:ARG:HD3	2.22	0.55
45:i:57:ASN:OD1	63:Q:120:SER:HA	2.07	0.55
1:AR:172:G:H3'	1:AR:173:G:H5''	1.89	0.55
1:AR:503:C:H2'	1:AR:504:A:H8	1.72	0.55
1:AR:524:U:OP1	15:CO:77:ARG:NH2	2.35	0.55
1:AR:783:A:OP2	81:AR:3668:OHX:N3	2.40	0.55
1:AR:1015:U:H3'	1:AR:1016:C:H5''	1.88	0.55
1:AR:1120:A:H2'	1:AR:1121:U:H6	1.72	0.55
1:AR:2430:A:H2'	1:AR:2431:C:C6	2.41	0.55
1:AR:2768:U:H2'	1:AR:2769:A:H8	1.71	0.55
1:AR:2897:A:H2'	1:AR:2899:C:H5''	1.89	0.55
81:AR:4200:OHX:N6	43:DQ:34:SER:OG	2.39	0.55
28:DB:101:PHE:HB3	28:DB:102:GLU:HB3	1.87	0.55
38:DL:54:LYS:O	38:DL:58:THR:HG23	2.07	0.55
47:A:74:U:O2'	47:A:75:U:H5''	2.07	0.55
47:A:257:A:H1'	56:J:73:SER:HB2	1.88	0.55
47:A:702:G:O6	47:A:737:A:N6	2.39	0.55
47:A:1150:G:H2'	47:A:1768:G:N2	2.22	0.55
47:A:1597:A:C8	77:e:14:TYR:CD2	2.91	0.55
47:A:1599:C:O2	81:A:2138:OHX:N5	2.40	0.55
49:C:83:LYS:O	49:C:103:MET:HG2	2.07	0.55
54:H:42:GLY:HA3	54:H:45:PHE:HD2	1.71	0.55
55:I:43:PHE:CZ	55:I:46:ILE:HG12	2.41	0.55
57:K:29:LYS:NZ	78:f:40:TYR:OH	2.25	0.55
57:K:180:LYS:CD	57:K:183:ALA:HB3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Q:86:VAL:H	63:Q:89:MET:HE2	1.71	0.55
47:sR:1324:G:OP2	81:sR:1960:OHX:N2	2.40	0.55
47:sR:1573:A:H4'	47:sR:1574:G:H5'	1.88	0.55
80:Rb:60:SER:OG	64:c6:102:LYS:NZ	2.39	0.55
48:s0:172:LEU:O	48:s0:176:LEU:HG	2.06	0.55
48:s0:183:ARG:HG3	48:s0:188:LEU:HB3	1.89	0.55
53:s5:101:GLY:HA2	53:s5:104:ASN:OD1	2.06	0.55
53:s5:127:GLN:HG2	53:s5:128:ASN:H	1.71	0.55
58:c0:5:LYS:O	58:c0:9:ASN:ND2	2.40	0.55
62:c4:25:ASP:OD1	62:c4:26:THR:N	2.37	0.55
63:c5:81:ARG:NH2	63:c5:120:SER:OG	2.39	0.55
67:c9:22:LEU:HD13	67:c9:28:LEU:HD22	1.89	0.55
73:d5:89:ILE:HD13	73:d5:101:TYR:CD1	2.41	0.55
1:1:911:C:N4	4:j:3:ARG:HD3	2.22	0.55
1:1:1460:A:H2'	1:1:1461:A:H8	1.72	0.55
1:1:1470:U:H2'	1:1:1471:U:C6	2.42	0.55
1:1:1569:U:H5''	1:1:1570:U:H5''	1.87	0.55
1:1:1615:C:H2'	1:1:1616:U:C6	2.42	0.55
1:1:1618:G:H4'	3:4:129:C:H1'	1.88	0.55
9:o:160:ARG:HD2	9:o:203:TRP:CD1	2.42	0.55
10:p:220:ALA:HA	10:p:224:ASP:OD2	2.06	0.55
17:w:140:LYS:O	17:w:143:THR:HG22	2.06	0.55
23:5:19:VAL:O	23:5:23:THR:HG23	2.06	0.55
37:AJ:89:GLU:O	37:AJ:93:ILE:HG12	2.07	0.55
39:AL:24:THR:HG23	39:AL:76:ASN:HB3	1.89	0.55
45:i:43:ASP:HB3	45:i:46:LYS:NZ	2.21	0.55
45:i:58:GLU:HA	45:i:61:ILE:HG22	1.89	0.55
1:AR:75:G:H5''	14:CN:58:VAL:HG22	1.89	0.55
1:AR:784:A:N6	19:CS:93:ILE:HD13	2.22	0.55
1:AR:795:G:O6	81:AR:3436:OHX:N6	2.40	0.55
1:AR:2790:A:O2'	81:AR:3568:OHX:N4	2.39	0.55
1:AR:2812:C:H2'	1:AR:2813:A:H8	1.72	0.55
1:AR:3047:U:O2'	1:AR:3048:A:H5'	2.06	0.55
3:AT:10:A:H2'	3:AT:11:C:H6	1.71	0.55
7:CG:93:THR:O	7:CG:93:THR:OG1	2.24	0.55
7:CG:293:LEU:HG	12:CL:210:ILE:HG21	1.89	0.55
10:CJ:54:GLU:O	10:CJ:58:VAL:HG12	2.07	0.55
13:CM:53:THR:HG23	13:CM:60:ARG:HA	1.87	0.55
20:CT:92:GLN:O	20:CT:96:ILE:HG23	2.07	0.55
26:CZ:103:TYR:CE2	26:CZ:139:ILE:HG13	2.42	0.55
30:DD:11:ASN:O	30:DD:15:LYS:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DE:13:LYS:HB3	31:DE:100:ILE:CG2	2.37	0.55
37:DK:40:VAL:O	37:DK:44:VAL:HG13	2.07	0.55
37:DK:54:GLU:HG2	37:DK:86:LYS:HE2	1.87	0.55
37:DK:58:ILE:HA	37:DK:61:ILE:HG12	1.88	0.55
47:A:413:U:H2'	47:A:414:C:C6	2.42	0.55
47:A:531:C:H2'	47:A:532:U:H5'	1.89	0.55
47:A:1064:G:H2'	47:A:1065:A:C8	2.42	0.55
55:I:51:VAL:HG23	55:I:170:GLN:NE2	2.22	0.55
55:I:103:SER:N	55:I:106:SER:OG	2.40	0.55
55:I:154:LEU:HD21	55:I:183:PHE:CD2	2.41	0.55
65:S:5:ARG:HD3	65:S:5:ARG:H	1.72	0.55
71:Y:134:ALA:HA	71:Y:139:LYS:HD2	1.89	0.55
80:h:38:ARG:CG	80:h:67:ILE:HD12	2.36	0.55
47:sR:140:A:N6	47:sR:281:G:OP1	2.40	0.55
47:sR:1080:U:O2'	47:sR:1081:A:H5'	2.06	0.55
47:sR:1530:C:OP2	73:d5:96:SER:OG	2.22	0.55
47:sR:1699:G:H2'	47:sR:1700:C:H5'	1.87	0.55
49:s1:134:VAL:CG2	49:s1:219:LYS:HB3	2.37	0.55
55:s7:63:PRO:HB2	55:s7:65:PRO:HD2	1.87	0.55
57:s9:106:GLU:O	57:s9:111:THR:OG1	2.25	0.55
66:c8:36:LYS:O	66:c8:102:ALA:HA	2.06	0.55
1:l:729:C:O2'	19:y:79:LYS:HE2	2.07	0.55
1:l:3281:U:H2'	1:l:3282:U:C6	2.42	0.55
3:4:40:A:H2'	3:4:41:A:C8	2.42	0.55
12:r:93:PRO:O	12:r:125:LEU:HD23	2.07	0.55
32:AE:31:ARG:O	32:AE:35:GLU:HB2	2.06	0.55
38:AK:28:HIS:HD2	38:AK:31:LYS:H	1.53	0.55
1:AR:12:A:H2'	1:AR:13:A:C8	2.42	0.55
1:AR:2852:C:N3	12:CL:158:LYS:HE3	2.21	0.55
13:CM:85:LYS:HA	13:CM:89:TYR:CE2	2.41	0.55
14:CN:176:GLU:O	14:CN:180:ARG:HB2	2.07	0.55
24:CX:80:ARG:HD2	24:CX:95:PHE:CD2	2.42	0.55
27:DA:53:ASP:HB2	27:DA:110:HIS:CD2	2.42	0.55
46:p0:16:ARG:HB3	46:p0:66:PHE:CE2	2.42	0.55
46:p0:25:LEU:HD23	46:p0:88:PHE:CD2	2.42	0.55
47:A:68:A:H5'	54:H:160:ARG:NH2	2.22	0.55
49:C:61:LEU:HG	49:C:91:VAL:HG21	1.88	0.55
49:C:110:LEU:O	49:C:114:VAL:HG12	2.07	0.55
53:G:51:VAL:HA	53:G:131:GLN:OE1	2.07	0.55
53:G:186:ASN:OD1	53:G:188:LYS:HB2	2.07	0.55
55:I:50:ASP:HB3	55:I:56:LYS:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Q:44:ARG:HE	63:Q:52:LYS:HE3	1.72	0.55
63:Q:64:LYS:HA	63:Q:73:PRO:HB3	1.89	0.55
66:T:33:THR:HA	66:T:38:VAL:HG21	1.89	0.55
47:sR:162:A:H2'	47:sR:163:G:C8	2.42	0.55
47:sR:234:G:H2'	47:sR:235:G:O4'	2.07	0.55
47:sR:337:G:H3'	59:c1:133:LYS:HB2	1.88	0.55
47:sR:392:G:OP1	56:s8:24:LYS:NZ	2.38	0.55
47:sR:919:A:C4'	62:c4:35:GLY:HA3	2.36	0.55
47:sR:1218:G:O2'	47:sR:1219:A:OP2	2.17	0.55
47:sR:1458:G:H5''	47:sR:1459:C:OP2	2.07	0.55
47:sR:1726:G:O6	81:sR:1916[B]:OHX:N2	2.40	0.55
80:Rb:22:SER:OG	80:Rb:70:ASP:HA	2.07	0.55
52:s4:200:ARG:HG3	52:s4:206:ASP:CG	2.32	0.55
54:s6:162:VAL:HG21	54:s6:169:TYR:CE1	2.42	0.55
57:s9:65:LYS:CA	57:s9:70:LEU:HD21	2.37	0.55
67:c9:37:VAL:HG11	67:c9:100:ILE:HD11	1.89	0.55
1:1:429:U:OP2	81:1:3536:OHX:N2	2.40	0.55
1:1:1671:C:H5''	20:z:60:LYS:NZ	2.22	0.55
1:1:2429:G:H2'	1:1:2430:A:H8	1.71	0.55
1:1:2443:A:O2'	1:1:2444:C:OP2	2.18	0.55
1:1:2505:U:H2'	1:1:2506:U:H6	1.72	0.55
12:r:166:ILE:HG12	22:2:158:THR:HG21	1.89	0.55
13:s:23:VAL:O	13:s:25:GLU:N	2.40	0.55
37:AJ:56:ARG:HH12	37:AJ:76:ARG:HD3	1.72	0.55
1:AR:430:U:OP2	81:AR:3483:OHX:N2	2.40	0.55
1:AR:787:G:H2'	1:AR:788:C:C6	2.42	0.55
1:AR:1895:A:O2'	1:AR:3053:G:H4'	2.07	0.55
1:AR:2916:U:H5	1:AR:2935:U:HO2'	1.54	0.55
1:AR:3374:U:O4	81:AR:3535:OHX:N5	2.40	0.55
10:CJ:148:ALA:HA	10:CJ:201:THR:HG22	1.89	0.55
23:CW:17:VAL:HB	23:CW:63:VAL:HG13	1.88	0.55
46:p0:27:VAL:HB	46:p0:188:VAL:CG2	2.37	0.55
47:A:820:U:H3'	47:A:821:U:H5''	1.89	0.55
50:D:90:THR:HG23	50:D:92:ALA:H	1.71	0.55
56:J:81:VAL:HG22	56:J:102:VAL:HG12	1.89	0.55
65:S:27:ASP:OD2	65:S:30:THR:HG23	2.07	0.55
69:W:42:GLU:O	69:W:44:ARG:HG3	2.07	0.55
78:f:30:PRO:C	78:f:31:LYS:HD3	2.32	0.55
80:h:210:LEU:HD12	80:h:231:MET:HE1	1.89	0.55
80:h:218:GLY:O	80:h:236:ALA:N	2.28	0.55
47:sR:245:U:O4	81:sR:1977:OHX:N6	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:674:C:H2'	47:sR:675:U:C6	2.42	0.55
47:sR:796:A:OP2	81:sR:1951:OHX:N1	2.40	0.55
47:sR:1429:G:H2'	47:sR:1430:U:C6	2.41	0.55
48:s0:34:GLU:HA	48:s0:37:VAL:HG12	1.88	0.55
49:s1:81:PHE:CD1	49:s1:82:ARG:HG3	2.42	0.55
62:c4:39:ILE:HD12	62:c4:40:ALA:N	2.22	0.55
68:d0:82:TYR:HB3	77:d9:52:PHE:HB3	1.89	0.55
71:d3:97:ASP:O	71:d3:100:ASP:HB2	2.06	0.55
1:1:422:A:C2	1:1:2363:A:H4'	2.42	0.54
1:1:1597:C:H2'	1:1:1598:G:H8	1.71	0.54
1:1:1658:G:H2'	1:1:1659:U:C6	2.41	0.54
1:1:2686:A:OP2	81:1:3426:OHX:N4	2.40	0.54
3:4:154:C:O2'	10:p:185:ARG:HD2	2.07	0.54
13:s:93:ASP:H	13:s:172:LEU:HB2	1.72	0.54
14:t:31:LYS:HG3	14:t:35:ARG:NH1	2.21	0.54
28:AA:57:HIS:HB3	28:AA:62:VAL:HG12	1.89	0.54
1:AR:269:G:N2	1:AR:295:A:OP2	2.33	0.54
1:AR:370:U:H4'	1:AR:404:G:H5'	1.89	0.54
1:AR:571:U:H2'	1:AR:572:A:H8	1.72	0.54
1:AR:2108:C:H1'	1:AR:3344:A:H8	1.71	0.54
1:AR:2571:U:H2'	1:AR:2571:U:OP1	2.07	0.54
1:AR:2700:G:OP1	22:CV:17:ARG:HB2	2.06	0.54
7:CG:85:ARG:NH2	7:CG:86:TYR:OH	2.40	0.54
15:CO:13:ARG:NH1	15:CO:65:LEU:O	2.40	0.54
37:DK:15:LYS:HZ3	37:DK:16:LYS:HB2	1.73	0.54
45:sM:66:ALA:HB2	63:c5:127:ARG:HH21	1.71	0.54
47:A:6:G:OP2	50:D:205:ARG:HD2	2.07	0.54
47:A:542:A:H3'	47:A:543:C:C5'	2.37	0.54
47:A:1345:A:OP1	68:V:54:GLY:N	2.33	0.54
47:A:1556:A:P	63:Q:40:ARG:HH12	2.30	0.54
48:B:90:ALA:O	48:B:93:THR:OG1	2.25	0.54
53:G:208:SER:HB3	53:G:211:ILE:HD12	1.89	0.54
55:I:80:GLU:HA	55:I:83:LYS:HG2	1.87	0.54
62:P:46:MET:SD	62:P:46:MET:N	2.80	0.54
64:R:39:VAL:H	64:R:45:ARG:HH12	1.54	0.54
47:sR:74:U:H5''	47:sR:75:U:OP2	2.07	0.54
47:sR:125:U:H5''	52:s4:148:ARG:NH1	2.22	0.54
47:sR:918:U:H2'	47:sR:919:A:C8	2.42	0.54
66:c8:136:GLN:OE1	66:c8:136:GLN:N	2.32	0.54
1:1:787:G:H2'	1:1:788:C:H6	1.70	0.54
1:1:1108:U:H2'	1:1:1109:U:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1577:G:H2'	1:1:1578:C:C6	2.41	0.54
1:1:3033:A:H2'	1:1:3034:C:H6	1.73	0.54
1:1:3066:U:H2'	1:1:3067:C:H6	1.72	0.54
1:1:3278:C:OP1	34:AG:54:ARG:NH2	2.40	0.54
6:l:351:PRO:HB3	9:o:70:LYS:HB3	1.89	0.54
11:q:106:LYS:HG3	11:q:111:PHE:HE2	1.71	0.54
32:AE:54:GLU:OE1	32:AE:54:GLU:N	2.22	0.54
36:AI:20:GLN:HG2	36:AI:24:LEU:HD11	1.89	0.54
38:AK:65:ARG:HH11	38:AK:65:ARG:HG3	1.72	0.54
1:AR:2111:G:H4'	1:AR:2112:U:OP2	2.08	0.54
1:AR:2406:C:H2'	1:AR:2407:C:H6	1.72	0.54
1:AR:3037:U:O4	81:AR:3551:OHX:N1	2.41	0.54
1:AR:3304:U:O2'	5:CE:334:ARG:NH2	2.39	0.54
4:CD:67:TYR:C	4:CD:68:LYS:HG3	2.32	0.54
9:CI:73:GLY:O	22:CV:143:THR:HG23	2.07	0.54
13:CM:172:LEU:O	13:CM:172:LEU:HD23	2.06	0.54
17:CQ:65:ASN:OD1	17:CQ:67:THR:HB	2.08	0.54
18:CR:67:ILE:HD12	18:CR:82:ARG:CZ	2.37	0.54
47:A:97:C:H2'	47:A:98:U:C6	2.42	0.54
47:A:304:U:H2'	47:A:305:C:C6	2.43	0.54
47:A:1458:G:H5''	47:A:1459:C:OP2	2.07	0.54
47:A:1555:A:OP1	63:Q:47:ARG:NH1	2.41	0.54
49:C:195:LYS:HB3	49:C:198:GLU:HG2	1.88	0.54
50:D:40:LYS:CG	50:D:247:ALA:HB1	2.37	0.54
54:H:182:GLN:CD	54:H:182:GLN:H	2.15	0.54
55:I:51:VAL:HG22	55:I:52:ALA:N	2.23	0.54
61:O:54:LEU:HD23	61:O:58:HIS:CD2	2.43	0.54
63:Q:125:PRO:HB3	66:T:129:TRP:CH2	2.41	0.54
47:sR:195:G:H2'	47:sR:196:G:H5''	1.89	0.54
47:sR:703:G:O6	81:sR:1955:OHX:N6	2.39	0.54
47:sR:1795:U:H3'	74:d6:5:ARG:HH21	1.72	0.54
57:s9:46:SER:O	57:s9:50:SER:OG	2.13	0.54
57:s9:184:SER:O	57:s9:184:SER:OG	2.22	0.54
58:c0:55:VAL:HG21	58:c0:66:TYR:HB3	1.89	0.54
67:c9:65:ILE:HG23	67:c9:71:VAL:HG23	1.87	0.54
1:1:244:G:OP1	14:t:132:ALA:HB3	2.08	0.54
1:1:549:U:H2'	1:1:550:A:C8	2.42	0.54
1:1:1530:U:OP1	81:1:4100:OHX:N6	2.40	0.54
1:1:2097:U:H2'	1:1:2098:C:C6	2.42	0.54
1:1:2356:A:H61	1:1:2983:C:H5	1.53	0.54
1:1:2401:A:O3'	6:l:68:GLY:HA2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2768:U:H2'	1:1:2769:A:H8	1.71	0.54
1:1:2848:G:OP1	41:AN:100:TYR:OH	2.24	0.54
81:1:3544:OHX:N3	2:3:87:G:OP2	2.40	0.54
2:3:23:A:H2'	2:3:24:A:C8	2.42	0.54
3:4:91:C:O2'	27:9:25:SER:HB3	2.06	0.54
17:w:78:ARG:HH11	17:w:78:ARG:HB3	1.73	0.54
1:AR:430:U:H4'	34:DH:67:MET:HE1	1.88	0.54
10:CJ:134:TYR:CD2	10:CJ:190:VAL:HG11	2.43	0.54
37:DK:79:SER:OG	37:DK:80:PHE:N	2.40	0.54
42:DP:16:LYS:O	42:DP:20:VAL:HG23	2.07	0.54
47:A:256:A:H2'	47:A:257:A:O4'	2.08	0.54
47:A:393:C:H4'	47:A:1673:G:O2'	2.07	0.54
47:A:1396:U:O4	81:A:1947:OHX:N4	2.40	0.54
47:A:1487:A:OP1	77:e:34:TYR:OH	2.17	0.54
48:B:71:GLU:O	48:B:96:THR:HG22	2.07	0.54
51:E:222:VAL:HG23	80:h:191:ASP:O	2.08	0.54
53:G:92:ARG:HH11	53:G:92:ARG:HG2	1.72	0.54
55:I:129:LEU:HD21	55:I:169:PHE:HB3	1.89	0.54
66:T:41:ARG:NH1	67:U:46:PRO:HG3	2.23	0.54
66:T:72:ILE:HD12	66:T:79:TYR:CD2	2.42	0.54
67:U:52:GLY:C	67:U:54:PHE:H	2.13	0.54
68:V:27:THR:HB	68:V:88:LYS:HG3	1.88	0.54
69:W:36:VAL:HG23	69:W:51:VAL:HG12	1.89	0.54
71:Y:51:GLY:HA2	71:Y:77:ILE:HG23	1.89	0.54
79:g:86:THR:HG23	79:g:87:THR:H	1.71	0.54
80:h:10:ARG:HE	80:h:51:ASP:HA	1.72	0.54
80:h:10:ARG:NH2	80:h:51:ASP:OD1	2.29	0.54
80:h:84:SER:O	80:h:110:VAL:HG22	2.08	0.54
47:sR:477:A:OP2	78:e0:28:LYS:NZ	2.40	0.54
48:s0:69:ASN:HB3	48:s0:71:GLU:OE1	2.07	0.54
55:s7:46:ILE:HD11	55:s7:60:ILE:HG23	1.89	0.54
57:s9:73:GLY:O	57:s9:77:ILE:HD12	2.07	0.54
1:1:138:U:H2'	1:1:139:G:C8	2.41	0.54
1:1:956:U:H2'	1:1:957:C:C6	2.42	0.54
5:k:171:LEU:O	81:k:402:OHX:N4	2.41	0.54
7:m:41:LYS:HB2	22:2:68:THR:O	2.08	0.54
19:y:57:ILE:H	19:y:57:ILE:CD1	2.17	0.54
1:AR:428:A:H2'	1:AR:429:U:C6	2.43	0.54
1:AR:585:A:OP2	81:AR:3594:OHX:N3	2.40	0.54
1:AR:2717:U:OP1	81:AR:3568:OHX:N5	2.41	0.54
1:AR:3121:U:H1'	1:AR:3122:A:H5''	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:27:A:OP2	7:CG:57:ASN:HB2	2.07	0.54
7:CG:120:LYS:O	7:CG:248:ARG:NH2	2.37	0.54
7:CG:282:ARG:O	7:CG:286:VAL:HG13	2.07	0.54
16:CP:119:TYR:OH	16:CP:131:GLU:OE1	2.20	0.54
47:A:848:C:H2'	47:A:849:C:H6	1.72	0.54
47:A:852:C:H2'	47:A:853:G:O4'	2.07	0.54
47:A:1175:U:H2'	47:A:1176:G:C8	2.42	0.54
48:B:193:GLN:O	48:B:195:TRP:N	2.41	0.54
50:D:54:GLU:OE1	50:D:54:GLU:N	2.36	0.54
52:F:102:VAL:HG13	52:F:182:TYR:CE2	2.42	0.54
56:J:152:ILE:HD12	56:J:153:GLU:N	2.23	0.54
64:R:48:VAL:HG23	64:R:82:ARG:HB3	1.88	0.54
71:Y:110:LYS:O	71:Y:112:LYS:HG2	2.08	0.54
80:h:156:VAL:HB	80:h:169:ILE:HG22	1.89	0.54
47:sR:152:U:C2	47:sR:163:G:N2	2.76	0.54
47:sR:771:A:OP1	57:s9:9:SER:OG	2.24	0.54
47:sR:1066:C:H5''	49:s1:149:GLN:NE2	2.23	0.54
47:sR:1688:U:H2'	47:sR:1689:A:C8	2.42	0.54
47:sR:1797:A:OP2	74:d6:10:ARG:NE	2.39	0.54
48:s0:70:PRO:HB2	48:s0:94:GLY:HA3	1.90	0.54
51:s3:17:PHE:O	51:s3:21:LEU:HD23	2.07	0.54
56:s8:152:ILE:CD1	56:s8:157:GLU:HB2	2.37	0.54
67:c9:76:LEU:O	67:c9:80:TYR:HD1	1.89	0.54
69:d1:56:SER:OG	69:d1:59:VAL:HG23	2.07	0.54
1:1:388:G:H4'	18:x:18:ARG:O	2.07	0.54
1:1:1267:U:H3'	1:1:1268:G:C8	2.43	0.54
1:1:2094:C:H2'	1:1:2095:G:C8	2.42	0.54
1:1:2310:U:OP1	86:1:4203:HOH:O	2.19	0.54
1:1:3231:U:H2'	1:1:3232:G:H8	1.71	0.54
5:k:19:ARG:HB2	5:k:232:ARG:NH2	2.22	0.54
11:q:99:ILE:HG22	11:q:117:PHE:HA	1.90	0.54
13:s:93:ASP:H	13:s:172:LEU:CB	2.21	0.54
25:7:49:ILE:O	25:7:52:THR:HG22	2.08	0.54
29:AB:48:TYR:O	29:AB:49:HIS:CG	2.60	0.54
32:AE:10:ARG:HG2	32:AE:108:VAL:HG22	1.89	0.54
1:AR:567:G:H2'	1:AR:568:G:C8	2.42	0.54
1:AR:764:U:O4	81:AR:3538:OHX:N4	2.40	0.54
1:AR:1322:U:O2	21:CU:108:GLN:NE2	2.41	0.54
1:AR:2311:G:OP2	81:AR:3478[B]:OHX:N2	2.40	0.54
1:AR:3131:U:H2'	1:AR:3132:C:C6	2.43	0.54
1:AR:3218:A:H4'	1:AR:3219:G:O5'	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:5:ILE:HG13	4:CD:8:GLN:HG3	1.88	0.54
15:CO:77:ARG:O	15:CO:81:VAL:HG12	2.08	0.54
47:A:162:A:H2'	47:A:163:G:N3	2.23	0.54
47:A:190:C:O2'	47:A:191:C:H5'	2.08	0.54
47:A:1120:U:H2'	47:A:1121:C:H6	1.72	0.54
49:C:65:VAL:HA	49:C:86:LEU:O	2.06	0.54
49:C:195:LYS:N	49:C:195:LYS:HD3	2.21	0.54
50:D:53:ILE:HG23	50:D:72:LEU:CD1	2.36	0.54
50:D:53:ILE:HD12	50:D:54:GLU:OE1	2.08	0.54
54:H:69:LEU:O	54:H:71:THR:N	2.29	0.54
55:I:74:GLN:O	55:I:78:THR:HG22	2.08	0.54
56:J:114:GLU:HA	56:J:118:GLY:HA2	1.89	0.54
57:K:113:VAL:HG21	57:K:134:ILE:HG12	1.90	0.54
64:R:114:ARG:HE	64:R:115:THR:HG23	1.71	0.54
67:U:31:PRO:HD3	67:U:54:PHE:HE2	1.73	0.54
77:e:33:LYS:O	77:e:36:LEU:HB2	2.07	0.54
47:sR:366:A:OP1	47:sR:758:U:O2'	2.24	0.54
47:sR:565:C:O2	81:sR:2007:OHX:N4	2.41	0.54
47:sR:1233:G:N2	47:sR:1253:U:H1'	2.21	0.54
53:s5:25:LEU:HD13	64:c6:60:PHE:O	2.07	0.54
53:s5:41:LYS:HG3	53:s5:69:PHE:CZ	2.43	0.54
53:s5:46:TRP:CE3	53:s5:129:PRO:HG3	2.42	0.54
62:c4:13:VAL:N	62:c4:77:THR:OG1	2.39	0.54
63:c5:134:THR:HG23	63:c5:135:THR:H	1.72	0.54
67:c9:61:VAL:O	67:c9:65:ILE:HD12	2.07	0.54
74:d6:20:PRO:HA	74:d6:31:PRO:HA	1.90	0.54
76:d8:10:ALA:HB1	76:d8:30:VAL:HB	1.89	0.54
1:1:1103:A:OP2	1:1:1103:A:H4'	2.07	0.54
1:1:1347:U:H4'	6:l:305:ALA:HB2	1.88	0.54
1:1:1586:G:OP1	81:1:4100:OHX:N2	2.41	0.54
1:1:2355:G:H4'	18:x:139:TYR:CE1	2.42	0.54
5:k:348:ARG:C	5:k:349:LYS:HD3	2.32	0.54
7:m:76:ALA:CB	7:m:109:THR:HG22	2.37	0.54
16:v:188:ARG:HH11	16:v:188:ARG:HG3	1.72	0.54
19:y:64:VAL:HG11	19:y:113:LYS:HD2	1.89	0.54
20:z:41:ILE:O	20:z:45:VAL:HG12	2.08	0.54
27:9:54:ASP:OD2	27:9:115:ARG:NH2	2.41	0.54
28:AA:53:VAL:HA	28:AA:57:HIS:HD2	1.72	0.54
1:AR:664:U:H2'	1:AR:665:A:H8	1.72	0.54
1:AR:1355:A:H4'	1:AR:1356:U:O5'	2.08	0.54
1:AR:1852:G:N7	81:AR:3539:OHX:N6	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3214:U:OP2	15:CO:128:ARG:NH1	2.40	0.54
12:CL:200:LEU:HD12	12:CL:213:PHE:HD2	1.72	0.54
39:DM:11:PHE:O	39:DM:14:LEU:HB2	2.08	0.54
47:A:274:G:H3'	47:A:275:C:C6	2.43	0.54
47:A:346:G:H5'	59:M:79:LYS:HB3	1.90	0.54
47:A:1078:C:H2'	47:A:1079:U:C6	2.43	0.54
48:B:120:LEU:HD23	48:B:121:VAL:N	2.22	0.54
50:D:35:TRP:NE1	50:D:37:PRO:HB3	2.22	0.54
51:E:5:ILE:HG12	51:E:6:SER:O	2.07	0.54
56:J:34:ALA:HB2	56:J:56:ARG:HG3	1.88	0.54
63:Q:16:SER:OG	66:T:93:THR:O	2.25	0.54
75:c:56:CYS:SG	75:c:63:LEU:HD11	2.48	0.54
77:e:22:ARG:HG3	77:e:37:ASN:O	2.07	0.54
47:sR:874:C:OP1	81:s1:301:OHX:N3	2.40	0.54
49:s1:35:PRO:HG2	49:s1:38:PHE:CE2	2.40	0.54
66:c8:49:LYS:HE3	66:c8:79:TYR:O	2.08	0.54
1:1:1194:G:H2'	1:1:1195:A:C8	2.43	0.54
1:1:1235:U:H4'	1:1:1236:G:H5'	1.89	0.54
1:1:2367:A:H2'	1:1:2368:A:C8	2.43	0.54
5:k:305:ILE:H	5:k:305:ILE:HD12	1.73	0.54
16:v:143:ARG:NH1	36:AI:91:ALA:O	2.41	0.54
19:y:18:ALA:HB1	19:y:19:PRO:HD2	1.89	0.54
33:AF:104:ASN:O	33:AF:108:ILE:HG13	2.07	0.54
1:AR:1506:A:H1'	1:AR:1848:G:O6	2.08	0.54
1:AR:3164:C:H1'	1:AR:3165:A:H5'	1.89	0.54
1:AR:3197:G:H2'	1:AR:3198:U:H5''	1.90	0.54
3:AT:40:A:H2'	3:AT:41:A:H8	1.73	0.54
3:AT:53:A:H2'	3:AT:54:A:H8	1.73	0.54
5:CE:56:ILE:HD11	5:CE:359:ILE:HG12	1.89	0.54
11:CK:20:ILE:HB	15:CO:7:VAL:HG22	1.90	0.54
27:DA:82:VAL:HB	27:DA:85:VAL:HG22	1.90	0.54
28:DB:23:VAL:HG23	28:DB:44:ALA:C	2.32	0.54
31:DE:47:ASN:OD1	31:DE:73:GLY:HA2	2.08	0.54
47:A:93:A:H1'	52:F:3:ARG:HB3	1.89	0.54
47:A:469:C:O2	81:A:2125:OHX:N5	2.40	0.54
47:A:959:U:H5'	61:O:15:ALA:O	2.08	0.54
47:A:1366:U:O2'	67:U:7:ARG:HD2	2.07	0.54
49:C:164:ILE:O	49:C:168:ILE:HD12	2.07	0.54
53:G:113:ILE:O	53:G:117:THR:HG23	2.07	0.54
54:H:48:TYR:CE2	54:H:121:LEU:HD21	2.43	0.54
57:K:60:LEU:HD11	57:K:93:LEU:CD2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N:54:ARG:HH21	79:g:127:GLY:HA3	1.72	0.54
66:T:28:ILE:HD13	66:T:58:ALA:HA	1.90	0.54
69:W:60:ARG:HA	69:W:65:SER:HB2	1.88	0.54
77:e:20:GLN:O	77:e:30:LEU:HD21	2.07	0.54
80:h:4:ASN:HD22	80:h:318:ALA:H	1.55	0.54
80:h:236:ALA:HB1	80:h:261:LYS:NZ	2.22	0.54
80:h:248:ASN:OD1	80:h:298:GLY:HA3	2.08	0.54
80:h:304:GLY:HA2	80:h:310:ILE:HG22	1.88	0.54
47:sR:140:A:OP2	47:sR:140:A:H4'	2.07	0.54
47:sR:224:C:C2	47:sR:225:A:C8	2.96	0.54
47:sR:487:G:H3'	47:sR:488:G:C5'	2.38	0.54
47:sR:696:C:H4'	47:sR:697:C:C6	2.42	0.54
47:sR:1255:G:H8	47:sR:1255:G:H5''	1.72	0.54
47:sR:1690:G:H1	47:sR:1711:C:H42	1.56	0.54
80:Rb:89:LEU:O	80:Rb:103:PHE:HD1	1.91	0.54
55:s7:46:ILE:HG13	55:s7:60:ILE:HA	1.90	0.54
57:s9:158:PHE:HD2	57:s9:164:PHE:HB2	1.72	0.54
62:c4:114:ARG:HG2	74:d6:59:TYR:CE2	2.43	0.54
1:l:364:G:OP1	6:l:60:THR:HG23	2.08	0.54
1:l:1119:C:OP2	81:l:3470:OHX:N1	2.41	0.54
1:l:1240:A:H3'	1:l:1241:U:C5'	2.37	0.54
1:l:1307:G:C4	17:w:60:LYS:HD3	2.43	0.54
1:l:1555:U:H5	1:l:1559:A:H61	1.55	0.54
1:l:1844:C:O2	38:AK:9:GLY:HA2	2.08	0.54
5:k:281:LYS:NZ	5:k:350:ALA:HA	2.22	0.54
7:m:88:ILE:HG12	7:m:240:TYR:CE1	2.43	0.54
12:r:36:LEU:HD21	12:r:69:ARG:NH1	2.22	0.54
1:AR:1487:G:H1	1:AR:1855:U:H3	1.56	0.54
5:CE:227:GLU:HG2	5:CE:270:ARG:HD3	1.90	0.54
11:CK:117:PHE:O	11:CK:120:ASP:HB2	2.08	0.54
12:CL:171:TRP:O	12:CL:174:THR:HG22	2.08	0.54
18:CR:59:PRO:HG3	18:CR:76:PHE:CD2	2.42	0.54
28:DB:100:THR:O	28:DB:106:GLN:HG3	2.08	0.54
29:DC:47:LYS:O	29:DC:47:LYS:HG3	2.08	0.54
44:DR:49:ARG:CZ	44:DR:52:ALA:HB2	2.38	0.54
47:A:276:C:O2'	47:A:277:U:H5''	2.07	0.54
47:A:324:U:O2'	59:M:80:MET:HE1	2.07	0.54
47:A:711:U:H1'	47:A:712:G:C8	2.42	0.54
60:N:133:LEU:O	60:N:137:MET:HE1	2.07	0.54
62:P:43:THR:O	62:P:46:MET:HG2	2.07	0.54
64:R:54:LEU:HD11	64:R:112:TYR:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:X:24:GLN:N	70:X:24:GLN:OE1	2.41	0.54
47:sR:332:U:P	56:s8:56:ARG:HH22	2.31	0.54
80:Rb:81:LEU:CD2	80:Rb:91:LEU:HA	2.37	0.54
48:s0:125:ASP:HB3	48:s0:128:SER:HB2	1.90	0.54
50:s2:212:LYS:O	50:s2:216:VAL:HG23	2.07	0.54
54:s6:17:GLU:CD	54:s6:17:GLU:H	2.16	0.54
63:c5:98:ASN:OD1	63:c5:101:ALA:N	2.31	0.54
66:c8:49:LYS:NZ	67:c9:35:ASP:OD2	2.41	0.54
1:l:65:A:H3'	1:l:111:C:H41	1.73	0.54
1:l:287:G:H5'	16:v:179:LYS:O	2.07	0.54
1:l:425:G:O6	81:l:3408:OHX:N6	2.41	0.54
1:l:1093:A:N3	1:l:1096:U:N3	2.56	0.54
1:l:2303:A:P	42:AO:23:ARG:HH21	2.31	0.54
1:l:2406:C:H2'	1:l:2407:C:H6	1.72	0.54
1:l:2561:A:C2	10:p:32:LYS:HG3	2.43	0.54
6:l:361:HIS:CG	6:l:362:ASP:H	2.25	0.54
16:v:102:ALA:O	16:v:106:VAL:HG12	2.08	0.54
29:AB:82:ILE:HD11	29:AB:102:ILE:HD11	1.88	0.54
31:AD:100:ILE:HD12	31:AD:101:LEU:N	2.23	0.54
43:AP:22:GLN:O	43:AP:75:VAL:HG22	2.07	0.54
1:AR:353:G:O6	38:DL:55:ARG:NH2	2.41	0.54
1:AR:2219:A:H2'	1:AR:2220:A:C8	2.43	0.54
1:AR:2986:U:H2'	1:AR:2987:A:C8	2.42	0.54
10:CJ:201:THR:O	10:CJ:202:GLU:C	2.51	0.54
47:A:226:A:H2'	47:A:227:U:H5'	1.89	0.54
47:A:1091:A:H5''	47:A:1091:A:N3	2.22	0.54
47:A:1515:A:OP2	51:E:7:LYS:HG3	2.08	0.54
47:A:1536:G:C6	47:A:1538:U:H1'	2.43	0.54
47:A:1600:A:HO2'	47:A:1602:C:N4	2.05	0.54
48:B:63:ILE:HG22	69:W:36:VAL:HA	1.90	0.54
49:C:217:LEU:HD13	49:C:218:LEU:H	1.71	0.54
51:E:70:THR:HG22	51:E:86:LEU:HD13	1.89	0.54
51:E:156:PHE:O	51:E:157:LEU:HD12	2.07	0.54
58:L:32:HIS:CD2	58:L:35:ILE:HG13	2.43	0.54
60:N:63:VAL:HG11	60:N:94:ALA:N	2.22	0.54
62:P:114:ARG:HA	74:b:62:TYR:OH	2.08	0.54
65:S:54:THR:O	65:S:58:MET:HG2	2.08	0.54
80:h:20:VAL:HA	80:h:37:SER:HA	1.90	0.54
80:h:112:SER:OG	80:h:153:GLN:HB2	2.07	0.54
80:h:170:ILE:HG22	80:h:180:ALA:HB2	1.90	0.54
47:sR:293:U:OP2	81:sR:1989:OHX:N2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:496:G:O6	47:sR:497:G:N2	2.40	0.54
47:sR:811:A:C4	47:sR:858:G:H1'	2.43	0.54
47:sR:1645:G:H1	47:sR:1756:A:H61	1.55	0.54
80:Rb:85:TRP:CH2	65:c7:29:GLN:HB3	2.42	0.54
49:s1:198:GLU:HA	49:s1:201:THR:HG22	1.90	0.54
59:c1:75:VAL:HG13	59:c1:120:GLY:H	1.73	0.54
1:1:786:A:H4'	1:1:787:G:H5'	1.90	0.54
1:1:1169:A:OP1	81:1:4105:OHX:N4	2.41	0.54
1:1:1481:A:O2'	1:1:1858:A:N3	2.37	0.54
1:1:2312:A:H3'	86:1:4211:HOH:O	2.07	0.54
3:4:83:C:H4'	3:4:85:G:N3	2.23	0.54
7:m:236:LEU:N	7:m:239:ILE:HD13	2.19	0.54
8:n:81:ALA:O	8:n:84:VAL:HG12	2.08	0.54
14:t:140:SER:O	14:t:144:THR:HG23	2.08	0.54
18:x:53:ASP:O	81:x:209:OHX:N1	2.41	0.54
25:7:9:SER:HB2	25:7:51:TRP:CZ3	2.43	0.54
28:AA:41:ALA:HB2	28:AA:77:TYR:HE1	1.72	0.54
28:AA:53:VAL:HA	28:AA:57:HIS:CD2	2.43	0.54
29:AB:125:VAL:HG21	29:AB:138:ILE:HD13	1.90	0.54
35:AH:104:VAL:HA	35:AH:107:GLU:HB3	1.90	0.54
40:AM:6:SER:OG	40:AM:9:ILE:HG12	2.07	0.54
1:AR:80:G:OP2	81:AR:3461:OHX:N1	2.41	0.54
1:AR:94:G:H2'	1:AR:95:A:C8	2.43	0.54
1:AR:138:U:H2'	1:AR:139:G:H8	1.73	0.54
1:AR:209:A:H4'	1:AR:211:A:C8	2.43	0.54
1:AR:2746:A:H2'	1:AR:2747:A:O4'	2.07	0.54
1:AR:2896:A:OP1	41:DO:102:ARG:NE	2.32	0.54
83:AR:4206:SPD:H81	29:DC:38:GLN:OE1	2.08	0.54
4:CD:3:ARG:HB2	4:CD:207:VAL:HG12	1.89	0.54
7:CG:19:PRO:HB2	7:CG:23:ARG:HB3	1.89	0.54
13:CM:80:LEU:O	13:CM:84:LEU:HD12	2.08	0.54
14:CN:176:GLU:HG2	37:DK:11:LEU:HD13	1.89	0.54
47:A:736:C:N4	47:A:737:A:H62	2.05	0.54
50:D:103:VAL:HG12	50:D:113:LEU:HD23	1.90	0.54
50:D:237:VAL:HG21	69:W:35:ASN:ND2	2.22	0.54
55:I:43:PHE:HE2	55:I:45:SER:C	2.15	0.54
55:I:68:ALA:O	55:I:72:LYS:NZ	2.31	0.54
59:M:109:VAL:HG12	59:M:137:PHE:HB2	1.90	0.54
68:V:39:SER:HA	68:V:42:VAL:HB	1.90	0.54
80:h:157:VAL:HG12	80:h:168:THR:O	2.08	0.54
47:sR:973:A:H2'	47:sR:974:A:H8	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1146:G:H2'	47:sR:1147:A:C8	2.43	0.54
47:sR:1553:G:C5	63:c5:47:ARG:NH2	2.76	0.54
48:s0:183:ARG:HA	48:s0:188:LEU:HB3	1.89	0.54
67:c9:108:LEU:HB3	67:c9:114:VAL:CG2	2.38	0.54
68:d0:33:GLN:O	68:d0:36:ASN:ND2	2.41	0.54
68:d0:68:ARG:CZ	68:d0:77:LYS:HA	2.37	0.54
72:d4:29:HIS:ND1	72:d4:33:ALA:O	2.41	0.54
1:1:1226:G:H2'	1:1:1227:C:H6	1.72	0.53
1:1:1470:U:H2'	1:1:1471:U:H6	1.73	0.53
1:1:1688:U:C2	1:1:1689:U:C5	2.96	0.53
1:1:1722:U:H5''	20:z:99:LEU:HD12	1.88	0.53
1:1:2430:A:H2'	1:1:2431:C:C6	2.43	0.53
5:k:292:ALA:HA	5:k:303:LYS:H	1.73	0.53
9:o:159:GLN:O	9:o:161:VAL:HG23	2.09	0.53
42:AO:6:ARG:O	42:AO:10:THR:HG23	2.08	0.53
44:AQ:8:VAL:O	44:AQ:11:THR:HG22	2.09	0.53
1:AR:1752:A:OP2	81:AR:3579:OHX:N1	2.40	0.53
1:AR:2763:U:N3	84:AR:4222:XBI:O2	2.41	0.53
1:AR:3209:A:OP2	21:CU:161:LYS:NZ	2.41	0.53
6:CF:296:GLN:HA	6:CF:299:ILE:HG12	1.91	0.53
6:CF:317:PRO:C	6:CF:319:LYS:H	2.16	0.53
13:CM:108:GLU:HA	13:CM:122:ILE:HG23	1.90	0.53
16:CP:43:THR:OG1	16:CP:131:GLU:OE2	2.25	0.53
18:CR:36:ILE:O	18:CR:39:TRP:HB2	2.08	0.53
22:CV:17:ARG:HB3	22:CV:22:HIS:CE1	2.42	0.53
23:CW:75:TYR:CD1	23:CW:79:LEU:HD11	2.44	0.53
26:CZ:109:LYS:HE3	26:CZ:125:ARG:HB2	1.89	0.53
29:DC:2:PRO:HG2	29:DC:5:PHE:CD2	2.43	0.53
29:DC:120:ASN:HD22	29:DC:120:ASN:C	2.16	0.53
39:DM:8:ILE:O	39:DM:11:PHE:HB3	2.08	0.53
46:p0:64:ARG:HA	46:p0:67:LEU:HD11	1.89	0.53
47:A:118:U:OP1	81:A:2100:OHX:N1	2.40	0.53
47:A:400:A:N6	56:J:29:LEU:HD12	2.23	0.53
47:A:1182:U:H4'	63:Q:124:THR:HB	1.89	0.53
47:A:1199:G:H1	77:e:31:ILE:HG12	1.72	0.53
47:A:1450:U:H2'	47:A:1451:C:H6	1.73	0.53
48:B:113:ARG:O	48:B:113:ARG:HG3	2.07	0.53
48:B:172:LEU:O	48:B:176:LEU:HD12	2.08	0.53
52:F:141:THR:OG1	52:F:143:ASP:CG	2.47	0.53
57:K:163:PRO:HA	57:K:167:ALA:CB	2.37	0.53
58:L:11:ILE:HD13	58:L:35:ILE:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:Q:22:LEU:CD1	63:Q:109:PRO:HG3	2.38	0.53
63:Q:56:PHE:CE1	63:Q:60:LEU:HD11	2.43	0.53
73:a:43:ASP:HB3	73:a:46:LYS:CB	2.38	0.53
54:s6:64:LYS:HE2	54:s6:82:SER:HB2	1.90	0.53
56:s8:37:LYS:NZ	56:s8:95:THR:OG1	2.23	0.53
57:s9:161:THR:C	57:s9:167:ALA:HB1	2.33	0.53
63:c5:86:VAL:HB	63:c5:87:PRO:HD2	1.90	0.53
65:c7:29:GLN:HA	65:c7:32:LYS:HE3	1.89	0.53
1:1:817:A:H8	38:AK:15:SER:HG	1.55	0.53
1:1:3096:C:H2'	1:1:3097:C:C6	2.43	0.53
1:1:3165:A:H61	1:1:3285:C:H42	1.57	0.53
5:k:76:VAL:HG12	5:k:325:LYS:HA	1.90	0.53
11:q:103:ILE:HG23	11:q:136:PHE:CE1	2.44	0.53
13:s:37:LEU:HD12	13:s:69:VAL:CG1	2.35	0.53
15:u:54:PRO:O	15:u:56:GLN:HG2	2.08	0.53
23:5:30:PRO:HB2	23:5:58:GLU:OE2	2.08	0.53
23:5:35:LYS:HZ1	23:5:39:ASP:HB2	1.74	0.53
32:AE:5:LYS:HA	32:AE:89:LEU:HD11	1.90	0.53
1:AR:126:U:H2'	1:AR:127:G:O4'	2.08	0.53
1:AR:599:C:OP1	6:CF:332:LYS:NZ	2.24	0.53
1:AR:656:A:H2'	1:AR:657:A:C8	2.43	0.53
1:AR:3160:U:OP1	81:AR:3664:OHX:N5	2.41	0.53
3:AT:141:C:OP2	81:AT:203:OHX:N2	2.41	0.53
5:CE:173:GLN:O	5:CE:174:LYS:HG2	2.08	0.53
11:CK:1:MET:HE1	21:CU:138:GLN:HB3	1.90	0.53
26:CZ:73:MET:HE2	26:CZ:73:MET:HA	1.89	0.53
34:DH:59:VAL:HG23	34:DH:60:ARG:H	1.73	0.53
47:A:413:U:H2'	47:A:414:C:H6	1.73	0.53
47:A:434:G:H5'	71:Y:78:LYS:HB3	1.90	0.53
47:A:983:A:OP1	81:A:2132:OHX:N6	2.41	0.53
47:A:1545:A:OP1	66:T:133:VAL:HG12	2.08	0.53
48:B:119:ARG:HH12	50:D:241:ASP:HA	1.71	0.53
52:F:92:LEU:HD22	72:Z:17:LEU:HD21	1.90	0.53
53:G:216:GLU:HA	53:G:219:ARG:HG2	1.90	0.53
60:N:38:HIS:ND1	60:N:38:HIS:O	2.41	0.53
61:O:34:ILE:O	61:O:38:VAL:HG22	2.07	0.53
62:P:64:ALA:O	62:P:105:LEU:HD21	2.09	0.53
66:T:72:ILE:HD12	66:T:79:TYR:HD2	1.73	0.53
47:sR:1:U:C4	57:s9:54:ARG:HG3	2.44	0.53
47:sR:152:U:O2	47:sR:163:G:N2	2.41	0.53
47:sR:599:A:H2'	47:sR:600:U:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:788:A:OP2	52:s4:108:ARG:NH2	2.41	0.53
47:sR:1608:U:OP1	64:c6:15:SER:HB3	2.08	0.53
55:s7:51:VAL:HG11	55:s7:168:SER:OG	2.09	0.53
57:s9:168:ARG:HB2	57:s9:169:PRO:HD2	1.91	0.53
58:c0:54:TYR:HE2	58:c0:75:TYR:CB	2.22	0.53
64:c6:69:VAL:HG21	64:c6:81:ILE:CG1	2.37	0.53
67:c9:117:SER:CB	67:c9:123:ARG:HB3	2.38	0.53
69:d1:36:VAL:HG11	69:d1:78:LEU:CD1	2.37	0.53
73:d5:60:VAL:HB	73:d5:101:TYR:HB2	1.90	0.53
78:e0:48:THR:CB	78:e0:50:VAL:HG23	2.37	0.53
1:1:25:U:O4	81:1:3404:OHX:N3	2.41	0.53
1:1:993:G:OP1	81:1:4076:OHX:N1	2.41	0.53
1:1:1508:C:OP1	18:x:127:ARG:NH2	2.34	0.53
1:1:1562:C:O2'	1:1:1563:C:O5'	2.25	0.53
1:1:2506:U:H2'	1:1:2507:C:C6	2.43	0.53
1:1:2808:A:H8	1:1:2808:A:H5'	1.72	0.53
11:q:137:SER:HB3	11:q:143:GLU:HB3	1.91	0.53
14:t:5:LYS:O	14:t:7:LEU:HG	2.09	0.53
23:5:33:TYR:HA	23:5:83:TYR:CE2	2.41	0.53
26:8:77:GLU:HG2	26:8:133:LEU:HD22	1.89	0.53
33:AF:18:LYS:HE2	33:AF:30:GLU:OE1	2.09	0.53
44:AQ:38:ASP:HA	44:AQ:45:LYS:HA	1.91	0.53
1:AR:1854:C:OP2	81:AR:3556:OHX:N6	2.41	0.53
1:AR:2270:A:H2'	1:AR:2271:A:C8	2.42	0.53
1:AR:2880:U:H1'	5:CE:250:ALA:HB3	1.91	0.53
2:AS:7:G:O3'	7:CG:33:ARG:NH2	2.41	0.53
3:AT:77:A:H2'	3:AT:78:G:O4'	2.09	0.53
5:CE:41:VAL:HA	5:CE:185:GLY:CA	2.37	0.53
9:CI:110:ARG:CZ	19:CS:3:ILE:HD11	2.38	0.53
10:CJ:161:GLU:HA	10:CJ:164:VAL:HG22	1.90	0.53
11:CK:8:GLN:HB3	11:CK:72:LYS:HD2	1.90	0.53
16:CP:190:THR:O	16:CP:194:GLN:HG3	2.08	0.53
17:CQ:189:ASP:O	17:CQ:193:GLN:HG3	2.08	0.53
43:DQ:100:LYS:HD3	43:DQ:100:LYS:N	2.23	0.53
44:DR:49:ARG:HB2	44:DR:55:TRP:CZ3	2.43	0.53
47:A:522:U:O2'	72:Z:60:PHE:O	2.23	0.53
47:A:1164:G:H2'	47:A:1165:G:C8	2.44	0.53
47:A:1182:U:O2	47:A:1184:A:H8	1.91	0.53
47:A:1572:G:H2'	47:A:1572:G:N3	2.21	0.53
50:D:175:GLY:O	57:K:53:ARG:NE	2.41	0.53
52:F:129:VAL:HG12	52:F:156:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G:94:THR:HA	53:G:97:LEU:HD13	1.90	0.53
65:S:50:ILE:O	65:S:54:THR:HG22	2.08	0.53
67:U:123:ARG:HG2	67:U:124:ILE:N	2.23	0.53
77:e:40:ARG:HH11	77:e:40:ARG:HG3	1.73	0.53
47:sR:488:G:N2	47:sR:499:U:H3	2.04	0.53
47:sR:953:G:H2'	47:sR:954:G:C8	2.43	0.53
47:sR:958:U:H2'	61:c3:14:SER:HB3	1.91	0.53
47:sR:964:U:OP1	61:c3:128:TYR:OH	2.21	0.53
47:sR:1234:A:H2'	47:sR:1235:C:C5	2.43	0.53
47:sR:1561:U:H4'	47:sR:1599:C:H4'	1.89	0.53
47:sR:1747:G:N7	81:sR:1980:OHX:N1	2.57	0.53
81:sR:2018:OHX:N4	57:s9:8:TYR:O	2.42	0.53
80:Rb:129:LYS:HE3	80:Rb:148:ASN:C	2.34	0.53
80:Rb:249:ARG:NH2	80:Rb:315:VAL:HG21	2.22	0.53
56:s8:47:ARG:HH11	56:s8:47:ARG:HG2	1.73	0.53
56:s8:66:SER:O	56:s8:183:ILE:HG22	2.08	0.53
67:c9:25:GLN:O	67:c9:27:LYS:HG2	2.08	0.53
71:d3:56:LYS:NZ	71:d3:96:VAL:O	2.36	0.53
1:1:783:A:OP2	81:1:4123:OHX:N4	2.42	0.53
1:1:1940:G:H21	1:1:3362:A:H8	1.56	0.53
1:1:2148:U:H2'	1:1:2149:A:C8	2.43	0.53
1:1:2662:G:H2'	1:1:2663:G:H8	1.72	0.53
1:1:3298:C:C2	1:1:3299:A:C8	2.96	0.53
18:x:28:ASN:O	18:x:32:THR:HG22	2.08	0.53
28:AA:121:ARG:HG3	28:AA:126:LYS:HE2	1.89	0.53
43:AP:15:LYS:HA	43:AP:18:ARG:HG3	1.90	0.53
1:AR:407:A:C2	3:AT:17:A:H1'	2.44	0.53
1:AR:956:U:H2'	1:AR:957:C:C6	2.43	0.53
1:AR:1196:C:O2	81:AS:3501:OHX:N1	2.41	0.53
1:AR:1317:A:OP1	81:AR:3596:OHX:N4	2.42	0.53
4:CD:247:ARG:HD2	4:CD:249:SER:HB2	1.89	0.53
27:DA:55:GLU:HG3	27:DA:108:LYS:HD3	1.90	0.53
47:A:186:C:H5'	56:J:142:LYS:NZ	2.24	0.53
47:A:221:A:OP2	47:A:832:U:O2'	2.24	0.53
47:A:714:G:H22	47:A:725:U:H3	1.56	0.53
47:A:906:A:OP1	62:P:52:ARG:N	2.40	0.53
47:A:1175:U:H3	47:A:1464:G:H1	1.56	0.53
49:C:84:ILE:HG22	49:C:86:LEU:HD12	1.91	0.53
54:H:21:GLU:HA	54:H:24:ILE:HG12	1.90	0.53
56:J:137:LYS:H	56:J:137:LYS:HD2	1.74	0.53
67:U:31:PRO:HD3	67:U:54:PHE:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:Y:137:LYS:O	71:Y:139:LYS:N	2.41	0.53
80:h:181:TRP:CE3	80:h:188:ILE:HB	2.43	0.53
47:sR:895:G:H2'	47:sR:896:U:C6	2.43	0.53
47:sR:1379:C:H5'	64:c6:10:PHE:CE2	2.43	0.53
47:sR:1474:G:H2'	47:sR:1475:A:C8	2.43	0.53
80:Rb:136:ILE:HD12	80:Rb:137:LYS:HG3	1.90	0.53
48:s0:36:TYR:HB3	48:s0:48:ILE:HD11	1.90	0.53
48:s0:41:ARG:CG	48:s0:45:VAL:HG12	2.38	0.53
48:s0:55:GLU:O	48:s0:58:VAL:HG22	2.09	0.53
49:s1:48:VAL:HG22	49:s1:64:ARG:NH2	2.23	0.53
54:s6:1:MET:HG3	54:s6:2:LYS:N	2.24	0.53
55:s7:82:GLU:OE2	55:s7:90:VAL:N	2.42	0.53
57:s9:119:ALA:O	57:s9:124:HIS:ND1	2.42	0.53
64:c6:39:VAL:O	64:c6:45:ARG:NH1	2.41	0.53
65:c7:109:LEU:O	65:c7:113:LEU:HG	2.08	0.53
73:d5:82:HIS:O	73:d5:85:LYS:N	2.38	0.53
1:1:1081:U:OP1	81:1:4107:OHX:N5	2.41	0.53
1:1:1243:G:N2	1:1:1244:A:N7	2.56	0.53
1:1:1915:A:H2'	1:1:1916:U:C6	2.43	0.53
1:1:2585:G:N7	10:p:47:SER:OG	2.40	0.53
6:l:354:VAL:O	6:l:358:THR:HG22	2.08	0.53
7:m:52:VAL:HA	7:m:147:ASP:HB3	1.90	0.53
10:p:91:PHE:HE1	10:p:189:LEU:HD12	1.74	0.53
11:q:13:PRO:HD2	11:q:16:VAL:CG2	2.39	0.53
17:w:84:LEU:HD13	17:w:102:LEU:HD21	1.91	0.53
20:z:47:ASN:OD1	20:z:49:THR:OG1	2.25	0.53
23:5:23:THR:CG2	23:5:30:PRO:HG3	2.37	0.53
29:AB:74:ASN:HB3	29:AB:76:ASP:H	1.73	0.53
31:AD:86:ARG:HH12	44:AQ:44:LYS:HD3	1.74	0.53
1:AR:1772:U:H5''	1:AR:1773:C:H5'	1.90	0.53
1:AR:2155:G:OP1	4:CD:241:ARG:HG2	2.07	0.53
1:AR:2433:U:OP2	1:AR:2434:U:O2'	2.23	0.53
1:AR:2557:A:OP1	4:CD:69:TYR:OH	2.26	0.53
1:AR:2773:C:H2'	1:AR:2774:C:H6	1.72	0.53
2:AS:45:A:H2'	2:AS:46:A:C8	2.44	0.53
4:CD:189:TYR:HA	4:CD:192:LYS:HG3	1.90	0.53
10:CJ:190:VAL:HB	10:CJ:192:GLN:HG2	1.90	0.53
15:CO:109:ARG:HD3	17:CQ:199:TYR:CZ	2.44	0.53
18:CR:60:PHE:HB3	18:CR:64:ASN:HB3	1.90	0.53
24:CX:114:ILE:CD1	24:CX:129:VAL:HG23	2.37	0.53
31:DE:70:PHE:CE1	31:DE:72:GLY:HA3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DK:32:ALA:O	37:DK:34:SER:HB3	2.08	0.53
47:A:560:U:H2'	47:A:561:G:H8	1.74	0.53
47:A:837:G:H21	59:M:26:LYS:NZ	2.07	0.53
47:A:1253:U:H2'	47:A:1254:U:C6	2.44	0.53
47:A:1341:A:OP1	80:h:63:GLY:HA2	2.08	0.53
48:B:36:TYR:CG	48:B:161:PRO:HG3	2.44	0.53
49:C:32:ILE:HG13	49:C:43:VAL:HG11	1.90	0.53
49:C:100:PHE:CE2	49:C:185:THR:HG21	2.44	0.53
51:E:79:TYR:CE2	51:E:84:ILE:HD12	2.44	0.53
53:G:147:THR:HG22	53:G:148:ARG:H	1.74	0.53
55:I:7:LYS:O	55:I:8:ILE:HD13	2.07	0.53
57:K:107:ARG:NH1	57:K:148:VAL:O	2.42	0.53
57:K:171:ARG:HE	57:K:174:ARG:NE	2.01	0.53
64:R:83:GLN:O	64:R:87:LYS:HG2	2.08	0.53
47:sR:950:C:H2'	47:sR:951:A:C8	2.43	0.53
80:Rb:151:VAL:HG23	80:Rb:172:ALA:O	2.07	0.53
53:s5:51:VAL:HG23	53:s5:131:GLN:CG	2.39	0.53
53:s5:77:TYR:CD1	53:s5:83:ARG:HG2	2.44	0.53
64:c6:115:THR:OG1	64:c6:118:ILE:O	2.21	0.53
1:1:564:G:H2'	1:1:565:U:C6	2.44	0.53
1:1:1278:A:HO2'	1:1:1279:C:H6	1.55	0.53
7:m:144:VAL:HG22	7:m:173:VAL:HG22	1.91	0.53
7:m:238:ASP:O	7:m:242:SER:OG	2.21	0.53
11:q:59:ASN:ND2	15:u:41:GLN:HG2	2.24	0.53
1:AR:73:C:OP1	37:DK:14:GLY:HA2	2.07	0.53
1:AR:198:A:N3	1:AR:218:G:O2'	2.42	0.53
1:AR:1065:A:N3	30:DD:28:LYS:HB2	2.24	0.53
1:AR:1174:G:N2	17:CQ:87:MET:SD	2.82	0.53
1:AR:1332:A:H2'	1:AR:1333:C:H6	1.74	0.53
1:AR:1365:G:OP2	81:AR:3529:OHX:N3	2.42	0.53
3:AT:95:G:H1'	38:DL:81:GLY:O	2.08	0.53
12:CL:144:ASN:O	12:CL:148:VAL:HG22	2.08	0.53
13:CM:19:LEU:HD13	13:CM:125:MET:SD	2.49	0.53
37:DK:25:LYS:HB2	37:DK:28:TYR:HD2	1.74	0.53
47:A:325:G:OP1	59:M:134:THR:OG1	2.27	0.53
47:A:446:A:N6	47:A:461:G:H21	2.07	0.53
47:A:868:G:H1	47:A:960:U:H3	1.54	0.53
47:A:895:G:H1'	62:P:36:LYS:O	2.09	0.53
56:J:136:SER:O	56:J:140:GLU:HG2	2.09	0.53
62:P:113:GLY:O	62:P:115:ILE:HG23	2.09	0.53
66:T:2:SER:O	66:T:3:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:T:25:ASN:O	73:a:40:VAL:HG11	2.08	0.53
67:U:112:GLY:O	67:U:127:ASN:ND2	2.42	0.53
71:Y:53:VAL:HG23	71:Y:100:ASP:O	2.09	0.53
73:a:65:LEU:HD23	73:a:76:ALA:HB1	1.91	0.53
74:b:14:GLY:C	74:b:15:ARG:HG3	2.34	0.53
76:d:16:LEU:HB2	76:d:27:GLN:O	2.09	0.53
76:d:49:ARG:HG2	76:d:50:GLU:O	2.07	0.53
47:sR:165:G:H2'	47:sR:166:C:H5''	1.89	0.53
47:sR:486:G:H4'	47:sR:486:G:OP1	2.07	0.53
47:sR:1253:U:H2'	47:sR:1254:U:C6	2.44	0.53
80:Rb:59:ARG:NH1	80:Rb:95:ALA:HB1	2.23	0.53
80:Rb:80:ALA:HB2	80:Rb:94:VAL:HG22	1.91	0.53
55:s7:99:LEU:CD1	55:s7:116:ARG:HB3	2.38	0.53
57:s9:123:HIS:HD2	78:e0:33:ARG:HD2	1.73	0.53
59:c1:59:PRO:HA	59:c1:64:VAL:HG23	1.89	0.53
59:c1:106:ASN:N	59:c1:106:ASN:HD22	2.07	0.53
62:c4:64:ALA:O	62:c4:67:VAL:HG22	2.09	0.53
66:c8:66:LEU:O	66:c8:70:VAL:HG23	2.08	0.53
73:d5:80:LEU:HD23	73:d5:101:TYR:CD2	2.44	0.53
76:d8:11:LYS:H	76:d8:33:LEU:CD2	2.21	0.53
76:d8:56:LEU:HD13	76:d8:58:GLU:N	2.24	0.53
1:1:3255:U:H2'	1:1:3256:G:H8	1.73	0.53
3:4:113:U:H5''	40:AM:7:PHE:HB3	1.91	0.53
3:4:124:G:H3'	3:4:125:U:C5'	2.39	0.53
5:k:41:VAL:HG12	5:k:186:GLY:H	1.74	0.53
9:o:36:ALA:HA	9:o:39:GLU:HB2	1.90	0.53
15:u:115:PHE:O	15:u:119:GLN:HG3	2.08	0.53
20:z:139:VAL:O	20:z:143:ILE:HG23	2.09	0.53
22:2:57:TYR:OH	22:2:87:LYS:HD3	2.08	0.53
43:AP:35:LEU:HD22	43:AP:36:PHE:N	2.20	0.53
1:AR:314:U:H2'	1:AR:315:C:C6	2.43	0.53
1:AR:679:U:O4	81:AR:3515:OHX:N2	2.41	0.53
1:AR:871:U:H2'	1:AR:872:U:C6	2.43	0.53
6:CF:154:THR:O	6:CF:154:THR:OG1	2.27	0.53
6:CF:271:LYS:HB2	6:CF:274:TYR:HB3	1.91	0.53
15:CO:24:LYS:HG3	15:CO:25:LYS:HG2	1.90	0.53
19:CS:94:PHE:CZ	29:DC:119:PRO:HD3	2.44	0.53
23:CW:96:VAL:HG12	23:CW:97:SER:H	1.74	0.53
28:DB:33:SER:HB3	28:DB:40:HIS:HE1	1.74	0.53
34:DH:12:LYS:NZ	34:DH:97:SER:OG	2.41	0.53
53:G:92:ARG:O	53:G:92:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:H:44:GLU:N	54:H:44:GLU:OE1	2.38	0.53
56:J:113:PHE:O	56:J:116:HIS:C	2.51	0.53
69:W:79:LEU:HD23	69:W:82:VAL:HG11	1.90	0.53
80:h:300:THR:CG2	80:h:314:GLN:HB3	2.38	0.53
47:sR:973:A:H2'	47:sR:974:A:C8	2.44	0.53
49:s1:81:PHE:HD1	49:s1:82:ARG:HG3	1.74	0.53
51:s3:116:ARG:CZ	51:s3:116:ARG:HB2	2.39	0.53
52:s4:115:THR:OG1	52:s4:117:GLU:O	2.25	0.53
57:s9:64:GLU:OE2	57:s9:69:ARG:NH1	2.42	0.53
63:c5:15:HIS:O	63:c5:22:LEU:HB3	2.07	0.53
1:1:1035:G:H3'	1:1:1036:A:H8	1.74	0.53
1:1:2217:U:H2'	1:1:2218:G:H8	1.73	0.53
1:1:2881:C:H2'	1:1:2882:U:C6	2.44	0.53
1:1:3214:U:C5	15:u:121:MET:HG3	2.43	0.53
3:4:9:A:H2'	3:4:10:A:C8	2.44	0.53
6:l:23:PRO:HD2	6:l:26:PHE:CD2	2.44	0.53
7:m:106:ALA:O	7:m:110:LEU:HG	2.09	0.53
10:p:35:GLY:O	10:p:38:GLN:HB2	2.09	0.53
10:p:135:GLY:O	10:p:139:VAL:HG23	2.09	0.53
16:v:183:THR:O	16:v:183:THR:OG1	2.26	0.53
18:x:47:TYR:O	18:x:51:VAL:HG13	2.09	0.53
26:8:95:ILE:O	26:8:99:VAL:HG23	2.08	0.53
37:AJ:25:LYS:HD3	37:AJ:28:TYR:HE1	1.74	0.53
1:AR:370:U:OP1	81:AR:3654:OHX:N5	2.42	0.53
1:AR:1214:U:H2'	1:AR:1215:U:C6	2.44	0.53
1:AR:1249:G:H2'	1:AR:1250:G:C8	2.43	0.53
1:AR:2615:G:H2'	1:AR:2616:C:C6	2.44	0.53
1:AR:2736:A:OP1	22:CV:92:ARG:NH1	2.38	0.53
1:AR:2883:U:H2'	1:AR:2884:C:C6	2.43	0.53
12:CL:48:LEU:O	12:CL:139:ARG:HA	2.08	0.53
28:DB:3:LYS:HE2	31:DE:36:GLN:HA	1.91	0.53
28:DB:84:ARG:HG3	28:DB:85:TYR:CE1	2.42	0.53
37:DK:57:LEU:O	37:DK:61:ILE:HG12	2.09	0.53
47:A:182:A:H2'	47:A:183:U:C6	2.43	0.53
47:A:538:A:H5'	47:A:543:C:H42	1.74	0.53
47:A:1424:A:H2'	47:A:1425:A:C8	2.44	0.53
47:A:1570:A:H2'	47:A:1571:C:O4'	2.09	0.53
47:A:1732:A:H2'	47:A:1733:C:H6	1.73	0.53
50:D:140:ARG:HH11	50:D:140:ARG:HG2	1.73	0.53
55:I:173:TYR:HE1	55:I:179:LYS:HB2	1.73	0.53
75:c:14:SER:O	75:c:18:LYS:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:68:A:HO2'	47:sR:69:G:P	2.29	0.53
47:sR:74:U:H3'	47:sR:75:U:H3'	1.91	0.53
47:sR:296:U:H2'	47:sR:297:U:C6	2.43	0.53
47:sR:701:U:H2'	47:sR:702:G:H8	1.74	0.53
47:sR:1133:A:H2'	47:sR:1134:C:O4'	2.09	0.53
47:sR:1379:C:H5'	64:c6:10:PHE:CD2	2.44	0.53
47:sR:1696:G:O2'	47:sR:1698:G:N7	2.42	0.53
80:Rb:60:SER:O	64:c6:94:GLN:NE2	2.42	0.53
80:Rb:171:SER:HB2	80:Rb:181:TRP:NE1	2.21	0.53
48:s0:26:ALA:HB3	48:s0:149:LEU:HB2	1.90	0.53
48:s0:92:HIS:H	48:s0:92:HIS:HD1	1.56	0.53
49:s1:129:THR:O	49:s1:131:ASP:O	2.27	0.53
50:s2:169:LEU:HD12	50:s2:198:THR:HG22	1.90	0.53
54:s6:30:LYS:O	54:s6:102:VAL:HG23	2.08	0.53
57:s9:78:ARG:HD2	57:s9:78:ARG:C	2.33	0.53
65:c7:29:GLN:HG3	65:c7:32:LYS:HE3	1.89	0.53
67:c9:53:TRP:HA	67:c9:56:LYS:HG2	1.89	0.53
1:1:1222:G:H1'	1:1:1286:A:N6	2.24	0.53
1:1:1681:U:O4	23:5:81:LYS:HE3	2.09	0.53
1:1:3325:G:H1'	32:AE:105:GLN:HE21	1.74	0.53
11:q:41:ILE:HD13	11:q:71:VAL:CG2	2.38	0.53
29:AB:134:ALA:O	29:AB:138:ILE:HG13	2.08	0.53
1:AR:1220:U:OP1	1:AR:1221:A:O2'	2.25	0.53
81:AR:3406:OHX:N5	3:AT:1:A:OP1	2.42	0.53
2:AS:57:G:H3'	2:AS:58:C:H6	1.74	0.53
3:AT:94:C:H5''	38:DL:76:ASN:ND2	2.24	0.53
7:CG:88:ILE:HG12	7:CG:240:TYR:HE1	1.74	0.53
10:CJ:106:LYS:HA	10:CJ:109:LEU:HB2	1.90	0.53
36:DJ:64:GLU:HG2	36:DJ:67:ARG:NH2	2.17	0.53
39:DM:56:ILE:HG22	39:DM:58:ASP:H	1.74	0.53
47:A:119:A:H1'	47:A:397:A:C4	2.44	0.53
47:A:142:G:N2	47:A:173:A:H2	2.04	0.53
47:A:150:U:OP1	72:Z:123:LYS:HD3	2.09	0.53
47:A:417:A:H4'	47:A:418:G:O5'	2.07	0.53
47:A:803:A:C4	55:I:104:ARG:HD3	2.43	0.53
47:A:814:A:O2'	47:A:816:G:OP2	2.25	0.53
47:A:922:G:H2'	47:A:923:A:H8	1.74	0.53
47:A:1172:G:H4'	47:A:1569:A:H2	1.74	0.53
47:A:1418:G:N7	81:A:1901:OHX:N3	2.57	0.53
47:A:1545:A:H2'	47:A:1546:G:H8	1.74	0.53
49:C:77:GLU:HA	49:C:80:SER:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:C:129:THR:OG1	49:C:179:SER:O	2.22	0.53
50:D:68:ILE:O	50:D:72:LEU:HG	2.09	0.53
51:E:120:TYR:HA	51:E:123:VAL:CG2	2.39	0.53
52:F:173:ILE:HD12	52:F:173:ILE:H	1.73	0.53
55:I:11:GLN:HG2	55:I:13:PRO:HD2	1.89	0.53
55:I:71:HIS:CG	55:I:131:PHE:HE2	2.25	0.53
57:K:3:ARG:HD2	57:K:4:ALA:O	2.09	0.53
57:K:73:GLY:O	57:K:77:ILE:HG13	2.09	0.53
61:O:28:LEU:HD12	61:O:33:VAL:HG13	1.89	0.53
63:Q:121:ILE:HD13	66:T:122:HIS:HD2	1.74	0.53
68:V:20:ILE:HD12	68:V:21:LYS:N	2.22	0.53
68:V:33:GLN:HB3	68:V:109:GLU:OE1	2.09	0.53
68:V:46:GLU:HB2	68:V:52:LYS:HZ1	1.73	0.53
68:V:109:GLU:CD	68:V:110:PRO:HD2	2.33	0.53
74:b:75:VAL:HA	74:b:78:ALA:HB3	1.91	0.53
47:sR:832:U:H2'	47:sR:833:U:O4'	2.08	0.53
47:sR:1615:C:H2'	53:s5:81:ARG:HG2	1.90	0.53
80:Rb:9:LEU:C	80:Rb:10:ARG:HG3	2.33	0.53
80:Rb:64:HIS:CE1	80:Rb:84:SER:HB3	2.43	0.53
50:s2:40:LYS:HG2	50:s2:247:ALA:HB1	1.91	0.53
52:s4:87:MET:HE3	52:s4:226:PHE:CE1	2.44	0.53
59:c1:124:THR:HB	59:c1:141:LYS:HB3	1.91	0.53
64:c6:40:GLU:HG3	64:c6:42:GLU:HB2	1.91	0.53
64:c6:54:LEU:HD11	64:c6:108:ALA:O	2.09	0.53
70:d2:73:GLY:HA3	70:d2:128:PHE:CE1	2.44	0.53
77:d9:10:HIS:CG	77:d9:11:PRO:HD2	2.44	0.53
1:1:86:G:O2'	14:t:11:LYS:HD3	2.09	0.53
1:1:265:A:O3'	16:v:5:LYS:NZ	2.42	0.53
1:1:543:C:H3'	1:1:544:C:C6	2.44	0.53
1:1:679:U:O4	81:1:4108:OHX:N3	2.42	0.53
9:o:80:GLN:HB2	22:2:135:PRO:HB2	1.91	0.53
10:p:84:ARG:HA	10:p:87:ALA:HB3	1.91	0.53
11:q:90:MET:HE2	11:q:146:LEU:HD11	1.90	0.53
14:t:48:PRO:HB2	36:AI:117:ALA:HB2	1.91	0.53
14:t:58:VAL:HG12	14:t:70:ARG:O	2.09	0.53
14:t:64:LYS:HD2	29:AB:66:ALA:HB1	1.91	0.53
16:v:73:ARG:HG2	16:v:75:VAL:HG13	1.91	0.53
33:AF:103:LYS:O	33:AF:106:VAL:HG22	2.09	0.53
36:AI:20:GLN:O	36:AI:24:LEU:HD12	2.09	0.53
38:AK:2:GLY:HA2	38:AK:6:PRO:HG2	1.90	0.53
1:AR:371:G:O6	81:AR:3641:OHX:N2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:589:A:H1'	1:AR:1337:A:H5''	1.91	0.53
1:AR:600:G:N7	81:AR:3619:OHX:N4	2.57	0.53
1:AR:718:G:O6	1:AR:751:A:H1'	2.09	0.53
1:AR:1634:G:O6	28:DB:17:ARG:HD3	2.09	0.53
1:AR:2424:A:OP1	16:CP:90:ASN:ND2	2.42	0.53
1:AR:2514:U:OP2	1:AR:2586:G:N2	2.42	0.53
1:AR:2655:U:H4'	1:AR:2656:A:O4'	2.08	0.53
2:AS:55:A:H2'	2:AS:56:A:O4'	2.08	0.53
9:CI:186:HIS:O	9:CI:190:THR:HG23	2.08	0.53
11:CK:50:ASN:ND2	15:CO:4:ASP:OD1	2.41	0.53
13:CM:84:LEU:HD12	13:CM:84:LEU:H	1.74	0.53
20:CT:159:ALA:HA	20:CT:162:ARG:HB2	1.91	0.53
22:CV:68:THR:HG22	22:CV:71:SER:O	2.09	0.53
44:DR:33:GLN:HG2	44:DR:34:HIS:CD2	2.42	0.53
47:A:1003:A:H4'	47:A:1004:U:O5'	2.09	0.53
47:A:1066:C:O3'	49:C:149:GLN:HB2	2.09	0.53
47:A:1783:C:H2'	47:A:1784:C:C6	2.43	0.53
49:C:32:ILE:HG21	49:C:98:THR:CG2	2.37	0.53
49:C:110:LEU:HD21	49:C:213:ARG:HD3	1.91	0.53
49:C:135:LEU:CD2	49:C:215:VAL:HG23	2.39	0.53
53:G:134:VAL:O	53:G:138:THR:HG23	2.09	0.53
55:I:51:VAL:HG12	55:I:55:LYS:O	2.09	0.53
57:K:180:LYS:HD2	57:K:183:ALA:HB3	1.89	0.53
62:P:31:THR:HA	62:P:39:ILE:HG12	1.91	0.53
62:P:99:GLN:O	62:P:102:LEU:HD23	2.09	0.53
65:S:14:LYS:HG3	65:S:15:ALA:N	2.23	0.53
71:Y:97:ASP:HB2	71:Y:142:LYS:NZ	2.24	0.53
76:d:54:LEU:HD13	76:d:55:VAL:N	2.24	0.53
80:h:17:ASN:O	80:h:17:ASN:ND2	2.41	0.53
47:sR:711:U:H3'	47:sR:712:G:C8	2.44	0.53
47:sR:826:U:O4	81:sR:1922:OHX:N5	2.42	0.53
47:sR:827:C:H2'	47:sR:828:U:C6	2.43	0.53
47:sR:1273:G:O5'	47:sR:1274:C:H3'	2.08	0.53
47:sR:1514:U:H1'	51:s3:6:SER:CA	2.38	0.53
80:Rb:132:LYS:NZ	80:Rb:143:THR:HG21	2.24	0.53
49:s1:121:ILE:HG23	49:s1:161:ILE:HG23	1.90	0.53
49:s1:139:ALA:HA	49:s1:212:VAL:HA	1.91	0.53
53:s5:208:SER:CB	53:s5:211:ILE:HG12	2.34	0.53
54:s6:3:LEU:HD11	54:s6:18:ILE:HG12	1.90	0.53
55:s7:91:ILE:HG12	55:s7:129:LEU:HA	1.91	0.53
56:s8:73:SER:O	56:s8:74:LYS:HE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:d3:130:VAL:HG12	71:d3:135:LEU:HG	1.91	0.53
1:1:109:A:H4'	1:1:110:G:OP1	2.09	0.52
1:1:534:U:O2	21:0:146:LYS:HA	2.09	0.52
1:1:2768:U:H2'	1:1:2769:A:C8	2.44	0.52
28:AA:109:GLU:HG3	28:AA:112:LYS:HD2	1.91	0.52
36:AI:53:CYS:O	36:AI:57:VAL:HG23	2.09	0.52
38:AK:18:LEU:HA	38:AK:25:ARG:HA	1.91	0.52
1:AR:90:C:C2'	1:AR:91:G:H5'	2.39	0.52
1:AR:155:G:H5''	1:AR:156:G:C8	2.44	0.52
1:AR:1231:A:OP2	81:AR:3507:OHX:N6	2.42	0.52
1:AR:1239:C:H42	1:AR:1249:G:N2	2.05	0.52
1:AR:1337:A:OP1	81:AR:3555:OHX:N2	2.42	0.52
1:AR:2415:C:OP1	4:CD:2:GLY:HA2	2.10	0.52
1:AR:2588:U:OP1	10:CJ:241:LYS:NZ	2.41	0.52
3:AT:90:U:O2	81:AT:212:OHX:N2	2.42	0.52
13:CM:15:GLU:CG	13:CM:132:ASN:HD22	2.11	0.52
13:CM:87:LYS:HE2	13:CM:105:GLY:O	2.09	0.52
14:CN:11:LYS:O	14:CN:13:HIS:ND1	2.42	0.52
14:CN:140:SER:O	14:CN:144:THR:HG23	2.09	0.52
22:CV:82:ASN:HA	30:DD:21:ILE:HD13	1.90	0.52
41:DO:127:LEU:O	41:DO:128:LYS:HB2	2.08	0.52
47:A:768:C:C2	57:K:143:ILE:HG12	2.44	0.52
47:A:1172:G:H21	67:U:88:VAL:HG21	1.74	0.52
47:A:1366:U:OP2	64:R:66:ARG:NH1	2.42	0.52
47:A:1617:U:H1'	76:d:22:ARG:O	2.09	0.52
48:B:88:LYS:HG3	48:B:201:LEU:HD13	1.91	0.52
48:B:134:LYS:O	48:B:137:SER:OG	2.27	0.52
50:D:59:HIS:HB2	50:D:61:LEU:CD2	2.39	0.52
67:U:55:TYR:HA	67:U:58:ALA:HB3	1.90	0.52
71:Y:93:LEU:HD21	78:f:8:LEU:HD23	1.90	0.52
73:a:62:VAL:HG11	73:a:77:ARG:HG2	1.90	0.52
47:sR:205:U:C2	47:sR:206:A:C8	2.97	0.52
47:sR:472:U:C2	47:sR:473:A:C8	2.96	0.52
47:sR:1172:G:H2'	47:sR:1173:C:C6	2.44	0.52
47:sR:1469:A:H2'	47:sR:1470:C:C6	2.44	0.52
47:sR:1732:A:H2'	47:sR:1733:C:H6	1.73	0.52
49:s1:171:ILE:HG21	49:s1:197:ILE:CG2	2.37	0.52
52:s4:214:LEU:HG	52:s4:244:ILE:HD11	1.91	0.52
57:s9:80:LEU:O	57:s9:84:GLY:N	2.43	0.52
66:c8:30:TYR:O	66:c8:33:THR:OG1	2.27	0.52
72:d4:52:LYS:O	72:d4:55:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d4:57:VAL:HB	72:d4:60:PHE:CE1	2.45	0.52
1:1:2677:G:O2'	1:1:2679:A:N1	2.31	0.52
1:1:2765:C:O3'	43:AP:39:GLY:HA3	2.09	0.52
10:p:201:THR:HG23	10:p:202:GLU:HG2	1.91	0.52
13:s:91:LEU:O	13:s:171:VAL:O	2.27	0.52
14:t:48:PRO:HA	14:t:137:GLN:HB2	1.91	0.52
17:w:42:ASN:HD22	17:w:125:ARG:HD3	1.74	0.52
19:y:96:PHE:CD1	19:y:97:PRO:HD2	2.44	0.52
1:AR:1039:U:H2'	1:AR:1040:A:C8	2.44	0.52
1:AR:1525:G:N7	81:AR:3547:OHX:N3	2.56	0.52
1:AR:1597:C:H2'	1:AR:1598:G:C8	2.43	0.52
1:AR:2163:C:H4'	4:CD:8:GLN:HA	1.90	0.52
1:AR:3322:A:H2'	1:AR:3323:A:C8	2.44	0.52
81:AR:3456:OHX:N5	47:sR:1004:U:O4	2.42	0.52
4:CD:109:GLU:OE1	4:CD:109:GLU:N	2.28	0.52
5:CE:339:ARG:HG2	5:CE:340:LYS:O	2.09	0.52
14:CN:137:GLN:O	14:CN:137:GLN:HG3	2.10	0.52
15:CO:99:TRP:O	15:CO:103:ILE:HG13	2.09	0.52
20:CT:178:ALA:HA	20:CT:181:ARG:HB3	1.90	0.52
22:CV:102:ARG:HG2	22:CV:103:GLN:OE1	2.09	0.52
26:CZ:101:GLU:HG3	26:CZ:102:LEU:N	2.24	0.52
36:DJ:68:GLN:HE21	36:DJ:71:LYS:HE2	1.74	0.52
47:A:927:C:H1'	62:P:125:SER:CB	2.39	0.52
47:A:1277:G:H2'	47:A:1278:G:O4'	2.09	0.52
47:A:1332:C:O2'	51:E:162:GLN:HB3	2.09	0.52
47:A:1450:U:H2'	47:A:1451:C:C6	2.45	0.52
47:A:1486:G:OP2	81:A:1949:OHX:N2	2.43	0.52
48:B:120:LEU:HD23	48:B:121:VAL:H	1.74	0.52
53:G:224:ASN:O	53:G:225:ARG:HG2	2.08	0.52
55:I:46:ILE:CD1	55:I:60:ILE:HA	2.39	0.52
61:O:100:LYS:HA	61:O:100:LYS:HE2	1.90	0.52
62:P:101:ALA:O	62:P:105:LEU:HG	2.09	0.52
64:R:75:VAL:HA	64:R:78:VAL:HG12	1.91	0.52
70:X:60:LYS:HE3	75:c:24:LEU:O	2.09	0.52
76:d:14:LYS:CD	76:d:15:VAL:H	2.22	0.52
47:sR:16:G:H2'	47:sR:17:C:C6	2.43	0.52
47:sR:482:U:H3	47:sR:505:A:N6	1.93	0.52
47:sR:1398:U:H3'	47:sR:1399:C:H4'	1.91	0.52
52:s4:104:ASP:N	52:s4:108:ARG:O	2.28	0.52
53:s5:76:ARG:HD3	64:c6:122:ARG:HD2	1.91	0.52
53:s5:205:SER:O	53:s5:206:SER:OG	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:s8:25:ARG:HD3	56:s8:27:PHE:CE2	2.44	0.52
59:c1:69:LYS:HB3	59:c1:71:LEU:HD21	1.92	0.52
64:c6:142:TYR:O	64:c6:143:ARG:HG2	2.09	0.52
1:1:38:U:H2'	1:1:39:A:O4'	2.10	0.52
1:1:656:A:H2'	1:1:657:A:C8	2.45	0.52
1:1:1083:G:H2'	1:1:1084:A:C8	2.45	0.52
1:1:3115:C:O2'	1:1:3117:C:N4	2.36	0.52
2:3:3:U:H2'	2:3:4:U:H6	1.75	0.52
6:l:290:ILE:HG23	19:y:35:PHE:CE2	2.44	0.52
13:s:92:ARG:HA	13:s:172:LEU:HB2	1.89	0.52
19:y:83:VAL:O	19:y:103:ALA:HA	2.09	0.52
19:y:176:ARG:HG3	19:y:183:GLY:HA3	1.90	0.52
29:AB:90:TYR:O	29:AB:94:ALA:HB2	2.09	0.52
35:AH:98:GLN:HB3	35:AH:102:LYS:HZ2	1.74	0.52
40:AM:41:ARG:HG2	40:AM:41:ARG:NH1	2.22	0.52
7:CG:266:ALA:O	7:CG:270:LYS:HB2	2.08	0.52
9:CI:40:LYS:HE2	9:CI:170:GLU:OE2	2.09	0.52
11:CK:101:VAL:O	81:CK:201:OHX:N6	2.43	0.52
15:CO:23:ILE:H	15:CO:23:ILE:HD12	1.73	0.52
16:CP:42:PRO:HG3	16:CP:61:ILE:HG13	1.91	0.52
24:CX:129:VAL:O	24:CX:133:SER:OG	2.15	0.52
40:DN:42:ARG:HG2	40:DN:43:ASN:H	1.74	0.52
47:A:1165:G:H2'	47:A:1166:A:C8	2.45	0.52
47:A:1784:C:H2'	47:A:1785:U:C6	2.43	0.52
50:D:41:LEU:O	50:D:45:VAL:HG12	2.10	0.52
51:E:65:ARG:HG3	51:E:69:LEU:HD11	1.92	0.52
52:F:176:ASP:O	52:F:179:LYS:HG3	2.08	0.52
53:G:41:LYS:HG3	53:G:69:PHE:CE1	2.44	0.52
53:G:58:LEU:O	53:G:62:VAL:HG23	2.09	0.52
58:L:25:LYS:HD3	58:L:59:PHE:CZ	2.44	0.52
58:L:44:LYS:HB3	58:L:47:GLN:HB3	1.92	0.52
72:Z:27:VAL:HG11	72:Z:40:LEU:HD21	1.91	0.52
80:h:153:GLN:HE21	80:h:202:LEU:N	2.07	0.52
50:s2:99:LYS:HA	50:s2:117:THR:HA	1.91	0.52
50:s2:139:ILE:HD13	50:s2:191:ALA:HB1	1.90	0.52
54:s6:3:LEU:CD1	54:s6:18:ILE:HG12	2.39	0.52
56:s8:103:GLN:HE21	56:s8:166:TYR:HE1	1.57	0.52
66:c8:16:ARG:O	66:c8:17:LEU:HD23	2.09	0.52
1:1:583:G:H5''	34:AG:106:ASN:ND2	2.24	0.52
2:3:76:A:OP2	81:3:201:OHX:N2	2.43	0.52
4:j:135:ILE:HD11	4:j:149:ARG:HD3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:140:HIS:NE2	6:l:246:ARG:HD2	2.24	0.52
12:r:36:LEU:HD11	12:r:69:ARG:HD2	1.92	0.52
42:AO:3:ALA:HB3	47:A:1773:C:OP1	2.10	0.52
45:i:103:LYS:NZ	45:i:107:ASN:OD1	2.41	0.52
1:AR:829:U:H3	1:AR:895:A:H62	1.58	0.52
1:AR:2268:U:H2'	1:AR:2269:U:C6	2.45	0.52
1:AR:2656:A:H4'	43:DQ:98:LYS:HD2	1.91	0.52
2:AS:3:U:H2'	2:AS:4:U:H6	1.75	0.52
2:AS:3:U:H2'	2:AS:4:U:C6	2.44	0.52
2:AS:26:C:H2'	2:AS:27:A:O4'	2.09	0.52
6:CF:36:HIS:O	6:CF:40:THR:HG23	2.09	0.52
10:CJ:34:PHE:CD1	10:CJ:42:PRO:HD3	2.45	0.52
33:DG:16:LYS:HD2	33:DG:17:PHE:H	1.74	0.52
47:A:196:G:O2'	47:A:197:A:H8	1.91	0.52
47:A:851:U:H2'	47:A:852:C:C6	2.43	0.52
49:C:31:ASP:HB3	49:C:45:LYS:HE3	1.91	0.52
49:C:213:ARG:O	49:C:214:LYS:HG3	2.10	0.52
52:F:54:TYR:HD1	72:Z:15:ASN:ND2	2.08	0.52
53:G:37:GLN:O	53:G:39:GLU:N	2.42	0.52
55:I:166:LEU:HA	55:I:169:PHE:CD2	2.45	0.52
56:J:194:ARG:HH11	56:J:194:ARG:HG2	1.74	0.52
57:K:59:LEU:O	57:K:62:ARG:HB2	2.09	0.52
57:K:171:ARG:NE	57:K:174:ARG:HE	2.03	0.52
58:L:55:VAL:HG21	58:L:66:TYR:HB3	1.92	0.52
64:R:41:PRO:O	64:R:44:LEU:N	2.43	0.52
65:S:61:ILE:C	65:S:61:ILE:HD12	2.34	0.52
47:sR:542:A:H1'	47:sR:543:C:H5'	1.91	0.52
47:sR:876:G:H1'	47:sR:944:A:O4'	2.10	0.52
47:sR:1783:C:H2'	47:sR:1784:C:H6	1.74	0.52
80:Rb:183:LEU:HD23	80:Rb:186:PHE:CE1	2.44	0.52
80:Rb:202:LEU:HD12	80:Rb:212:ALA:O	2.08	0.52
50:s2:111:VAL:HG13	50:s2:191:ALA:HA	1.91	0.52
52:s4:9:LEU:HG	52:s4:28:ALA:HB3	1.91	0.52
53:s5:37:GLN:NE2	53:s5:43:PHE:O	2.42	0.52
55:s7:55:LYS:C	55:s7:56:LYS:HD2	2.35	0.52
71:d3:37:ALA:O	71:d3:41:SER:HB3	2.09	0.52
1:1:121:A:C2	10:p:129:PRO:HB3	2.44	0.52
1:1:507:U:H2'	1:1:508:U:H6	1.74	0.52
1:1:926:A:H2'	1:1:927:C:C6	2.45	0.52
1:1:1345:G:O6	81:1:3474:OHX:N2	2.41	0.52
1:1:1675:G:H2'	1:1:1676:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3026:G:N7	81:1:3459:OHX:N3	2.57	0.52
1:1:3049:A:H4'	5:k:364:LYS:HE2	1.90	0.52
1:1:3322:A:H2'	1:1:3323:A:C8	2.44	0.52
3:4:91:C:H2'	3:4:92:A:C8	2.45	0.52
10:p:160:ILE:O	10:p:164:VAL:HG13	2.10	0.52
12:r:205:SER:O	12:r:209:ASN:HB2	2.10	0.52
14:t:79:GLU:HG3	14:t:109:PHE:CD1	2.44	0.52
1:AR:990:U:H4'	22:CV:100:LYS:HB3	1.91	0.52
1:AR:1696:A:H2'	1:AR:1697:A:H8	1.75	0.52
14:CN:168:ARG:NH2	14:CN:172:LEU:HD11	2.23	0.52
20:CT:166:ASN:ND2	20:CT:167:ARG:HD2	2.24	0.52
20:CT:167:ARG:NH1	47:sR:814:A:H5'	2.24	0.52
44:DR:79:VAL:O	44:DR:83:ILE:HG23	2.10	0.52
47:A:42:G:O6	81:A:1908:OHX:N6	2.41	0.52
47:A:307:G:OP1	59:M:103:ARG:NH1	2.34	0.52
47:A:366:A:OP1	47:A:758:U:O2'	2.15	0.52
47:A:647:G:N2	47:A:687:G:H1	2.05	0.52
47:A:1255:G:N7	60:N:46:ARG:NH1	2.57	0.52
50:D:59:HIS:HB2	50:D:61:LEU:HD21	1.91	0.52
50:D:81:MET:HB2	50:D:101:VAL:HG13	1.91	0.52
50:D:169:LEU:CD1	50:D:217:ALA:HB1	2.40	0.52
51:E:133:GLY:HA3	51:E:156:PHE:O	2.09	0.52
57:K:54:ARG:HA	57:K:57:ARG:HE	1.75	0.52
61:O:42:ARG:NH2	61:O:80:LEU:HD11	2.24	0.52
62:P:18:ARG:HB2	62:P:29:HIS:O	2.09	0.52
65:S:71:PHE:CE1	65:S:73:LEU:HB3	2.45	0.52
47:sR:153:G:H2'	47:sR:154:G:C8	2.45	0.52
47:sR:837:G:H2'	47:sR:838:G:C8	2.45	0.52
47:sR:989:U:H2'	47:sR:990:C:C6	2.44	0.52
47:sR:1062:A:H3'	47:sR:1063:U:H6	1.75	0.52
47:sR:1280:C:H2'	47:sR:1281:G:H8	1.73	0.52
47:sR:1330:G:N2	65:c7:8:THR:HG21	2.23	0.52
47:sR:1381:U:O4	47:sR:1382:A:N6	2.43	0.52
47:sR:1439:C:H2'	47:sR:1440:C:H6	1.74	0.52
47:sR:1455:G:OP1	63:c5:122:THR:HG21	2.09	0.52
47:sR:1516:A:OP1	68:d0:88:LYS:NZ	2.38	0.52
47:sR:1796:C:O2'	74:d6:95:ARG:NH1	2.41	0.52
48:s0:63:ILE:HG22	69:d1:36:VAL:HG22	1.91	0.52
55:s7:44:LYS:HZ1	55:s7:63:PRO:CD	2.21	0.52
56:s8:62:THR:HA	56:s8:76:THR:O	2.09	0.52
57:s9:65:LYS:HG3	57:s9:65:LYS:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:c4:51:ASP:HA	62:c4:54:GLU:HG3	1.91	0.52
66:c8:4:VAL:HG11	73:d5:82:HIS:ND1	2.24	0.52
72:d4:40:LEU:O	72:d4:44:LEU:HD12	2.09	0.52
74:d6:5:ARG:O	74:d6:8:ASN:HB3	2.09	0.52
1:1:314:U:H2'	1:1:315:C:C6	2.45	0.52
1:1:351:A:N6	40:AM:35:ILE:HG23	2.24	0.52
1:1:789:A:H2'	1:1:790:U:C6	2.44	0.52
1:1:1523:U:O4	26:8:75:LYS:NZ	2.42	0.52
1:1:2352:A:H2'	1:1:2353:G:C8	2.44	0.52
1:1:2880:U:H1'	5:k:250:ALA:HB3	1.92	0.52
1:1:3027:A:H2'	1:1:3028:G:O4'	2.09	0.52
1:1:3230:G:H4'	15:u:132:LYS:HD2	1.92	0.52
2:3:1:G:H4'	7:m:273:ARG:HH11	1.75	0.52
5:k:103:THR:HG22	5:k:104:THR:H	1.75	0.52
17:w:10:ASP:HB2	17:w:117:ARG:HG3	1.91	0.52
33:AF:86:THR:HG22	33:AF:115:LEU:HD13	1.92	0.52
37:AJ:69:ALA:HA	37:AJ:72:VAL:HG12	1.91	0.52
1:AR:1119:C:H2'	1:AR:1120:A:H8	1.73	0.52
1:AR:1750:A:H4'	1:AR:1751:G:H5'	1.91	0.52
1:AR:2228:A:H2'	1:AR:2229:A:H8	1.74	0.52
1:AR:3150:A:H5'	5:CE:130:PHE:H	1.74	0.52
3:AT:80:A:H5'	3:AT:81:U:OP2	2.10	0.52
18:CR:131:ARG:HG3	18:CR:137:ASN:ND2	2.25	0.52
37:DK:38:LYS:O	37:DK:42:SER:HB3	2.10	0.52
37:DK:97:SER:CB	37:DK:98:ARG:HD2	2.40	0.52
47:A:475:A:OP2	57:K:126:ARG:NH1	2.43	0.52
47:A:704:C:H4'	47:A:705:U:OP1	2.10	0.52
47:A:947:U:P	49:C:165:ARG:HH21	2.32	0.52
47:A:1087:A:H2'	47:A:1088:A:C8	2.44	0.52
47:A:1141:G:H2'	47:A:1142:A:C8	2.45	0.52
47:A:1291:G:H8	47:A:1291:G:O5'	1.92	0.52
60:N:35:ALA:HB2	60:N:126:TRP:HA	1.92	0.52
60:N:61:VAL:HG23	60:N:89:ILE:HG23	1.91	0.52
66:T:16:ARG:HG3	66:T:20:THR:O	2.10	0.52
71:Y:59:ILE:HG13	78:f:4:VAL:HG13	1.91	0.52
73:a:60:VAL:HG21	73:a:101:TYR:HB2	1.92	0.52
80:h:209:THR:OG1	80:h:210:LEU:HD22	2.09	0.52
47:sR:416:A:H5'	47:sR:417:A:N7	2.25	0.52
47:sR:967:A:O4'	70:d2:2:THR:HG21	2.10	0.52
48:s0:74:VAL:HG23	48:s0:118:PRO:HB3	1.89	0.52
48:s0:76:ILE:HB	48:s0:123:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:s9:88:GLU:O	57:s9:91:LYS:HE2	2.09	0.52
57:s9:162:SER:O	57:s9:167:ALA:HB3	2.10	0.52
58:c0:56:LYS:HB3	58:c0:67:THR:HG23	1.92	0.52
1:1:239:G:H2'	1:1:240:U:C6	2.45	0.52
1:1:289:A:H2'	1:1:290:G:H8	1.75	0.52
1:1:1103:A:N3	1:1:1103:A:H2'	2.25	0.52
1:1:1934:G:N7	81:1:4092:OHX:N2	2.58	0.52
1:1:2169:G:O6	81:1:4095:OHX:N3	2.43	0.52
1:1:2812:C:H2'	1:1:2813:A:H8	1.75	0.52
1:1:2881:C:H2'	1:1:2882:U:H6	1.75	0.52
1:1:3344:A:H2	1:1:3361:G:H21	1.53	0.52
6:l:38:VAL:O	6:l:42:VAL:HG23	2.09	0.52
8:n:76:LEU:HD11	8:n:141:VAL:HG21	1.91	0.52
14:t:101:ARG:HH22	14:t:112:ASN:ND2	2.08	0.52
15:u:20:VAL:HG22	15:u:68:LEU:HB2	1.92	0.52
31:AD:9:SER:OG	31:AD:10:ILE:N	2.43	0.52
34:AG:9:VAL:HG21	34:AG:44:TYR:HE2	1.75	0.52
44:AQ:56:THR:HG22	44:AQ:63:THR:HG23	1.92	0.52
45:i:59:GLY:O	45:i:63:ASP:HB3	2.10	0.52
1:AR:1145:G:H5'	33:DG:46:PHE:CE1	2.45	0.52
1:AR:1441:G:O6	81:AR:3464:OHX:N1	2.42	0.52
1:AR:1562:C:O2'	1:AR:1563:C:O5'	2.25	0.52
1:AR:2998:U:O4	81:AR:3634:OHX:N1	2.43	0.52
1:AR:3049:A:H8	1:AR:3049:A:H5'	1.74	0.52
1:AR:3255:U:H2'	1:AR:3256:G:C8	2.43	0.52
3:AT:6:U:H2'	3:AT:7:U:H6	1.74	0.52
13:CM:132:ASN:OD1	13:CM:133:ARG:N	2.43	0.52
17:CQ:79:ILE:HG21	17:CQ:138:LEU:HD11	1.91	0.52
28:DB:61:LYS:O	28:DB:65:ARG:HG3	2.09	0.52
35:DI:57:LEU:HD12	35:DI:62:TYR:HD1	1.75	0.52
39:DM:65:LEU:HD12	39:DM:68:SER:OG	2.10	0.52
47:A:452:A:H3'	47:A:453:U:C6	2.45	0.52
47:A:1208:A:N1	47:A:1455:G:N2	2.55	0.52
49:C:124:ASN:HB3	49:C:138:PHE:CD1	2.45	0.52
50:D:49:LYS:NZ	50:D:246:GLU:OE1	2.42	0.52
51:E:202:LEU:HD12	51:E:204:ASP:HB2	1.92	0.52
52:F:248:ILE:HD12	52:F:249:ALA:N	2.25	0.52
53:G:48:PHE:CE2	53:G:67:PRO:HA	2.45	0.52
57:K:149:ARG:HD3	57:K:149:ARG:H	1.75	0.52
61:O:47:PRO:HG3	61:O:75:LEU:HD22	1.92	0.52
66:T:23:ASP:OD1	66:T:25:ASN:N	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:a:89:ILE:HB	73:a:101:TYR:HB3	1.92	0.52
74:b:52:ASP:HA	74:b:55:GLU:HB2	1.92	0.52
74:b:62:TYR:CG	74:b:63:ALA:N	2.78	0.52
47:sR:1216:C:O2'	47:sR:1444:A:N1	2.39	0.52
47:sR:1745:G:O6	81:sR:1934:OHX:N5	2.43	0.52
80:Rb:66:HIS:ND1	80:Rb:67:ILE:HG13	2.23	0.52
48:s0:122:ILE:HA	48:s0:144:ILE:O	2.10	0.52
54:s6:63:MET:HG2	54:s6:99:GLY:O	2.09	0.52
55:s7:67:LEU:HD13	55:s7:94:ALA:HB2	1.91	0.52
55:s7:152:VAL:C	55:s7:153:LEU:HD23	2.35	0.52
62:c4:18:ARG:N	62:c4:29:HIS:O	2.43	0.52
76:d8:43:ASN:OD1	76:d8:43:ASN:N	2.42	0.52
1:l:1101:G:H1'	9:o:105:LEU:HD23	1.92	0.52
1:l:1278:A:O2'	1:l:1279:C:H6	1.92	0.52
1:l:1779:C:H1'	20:z:93:VAL:HG21	1.90	0.52
5:k:169:THR:O	81:k:402:OHX:N2	2.43	0.52
6:l:26:PHE:HA	6:l:127:ALA:HA	1.91	0.52
14:t:76:THR:O	14:t:76:THR:OG1	2.27	0.52
16:v:143:ARG:HH11	36:AI:92:LEU:HD23	1.75	0.52
22:2:88:ARG:NH1	30:AC:33:LYS:O	2.42	0.52
26:8:46:TYR:HB3	36:AI:75:TYR:O	2.10	0.52
1:AR:929:A:H2'	1:AR:930:U:C6	2.45	0.52
1:AR:3355:U:H3'	1:AR:3356:G:C5'	2.38	0.52
2:AS:4:U:H2'	2:AS:5:G:C8	2.44	0.52
4:CD:117:GLU:HG2	4:CD:122:ASP:OD1	2.10	0.52
7:CG:283:ALA:O	7:CG:286:VAL:HG22	2.10	0.52
12:CL:34:TYR:O	12:CL:88:ARG:HA	2.09	0.52
17:CQ:62:THR:HG21	17:CQ:68:ARG:HG3	1.92	0.52
28:DB:64:LYS:O	28:DB:64:LYS:HD2	2.09	0.52
29:DC:112:ILE:HB	29:DC:130:VAL:HG12	1.90	0.52
47:A:29:U:H2'	47:A:30:G:H8	1.74	0.52
47:A:327:U:O2'	59:M:10:GLU:HG2	2.10	0.52
47:A:1759:C:H2'	47:A:1760:G:O4'	2.10	0.52
51:E:191:ASP:HB3	51:E:194:LYS:HB3	1.91	0.52
55:I:5:GLN:CD	55:I:5:GLN:H	2.18	0.52
55:I:24:PHE:C	55:I:28:GLU:OE1	2.53	0.52
55:I:82:GLU:OE2	55:I:90:VAL:HG12	2.10	0.52
57:K:107:ARG:O	57:K:147:MET:HA	2.09	0.52
64:R:39:VAL:O	64:R:40:GLU:HG2	2.09	0.52
69:W:35:ASN:HD22	69:W:52:THR:HG22	1.74	0.52
70:X:6:VAL:HG23	70:X:29:PRO:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:46:LYS:HB2	80:h:56:VAL:HG12	1.90	0.52
47:sR:75:U:O2'	47:sR:76:A:O5'	2.28	0.52
47:sR:531:C:OP2	81:sR:1958:OHX:N5	2.43	0.52
47:sR:861:U:OP1	61:c3:64:ARG:NH1	2.42	0.52
47:sR:1063:U:H2'	47:sR:1064:G:H8	1.75	0.52
47:sR:1330:G:H21	65:c7:8:THR:HG21	1.75	0.52
47:sR:1529:C:H2'	47:sR:1530:C:C6	2.45	0.52
80:Rb:68:VAL:HA	80:Rb:84:SER:HA	1.92	0.52
49:s1:52:THR:HG22	49:s1:55:LYS:HB3	1.90	0.52
52:s4:251:GLU:HA	52:s4:255:ARG:NH2	2.25	0.52
53:s5:206:SER:N	53:s5:211:ILE:HD11	2.18	0.52
57:s9:118:LEU:HD23	57:s9:158:PHE:CD1	2.45	0.52
57:s9:118:LEU:HB3	57:s9:158:PHE:HE1	1.74	0.52
57:s9:125:ALA:O	57:s9:129:ILE:HD12	2.10	0.52
63:c5:29:SER:OG	63:c5:30:THR:N	2.42	0.52
67:c9:39:THR:HG23	67:c9:57:ARG:NH2	2.24	0.52
69:d1:20:THR:OG1	69:d1:22:ARG:HB2	2.10	0.52
73:d5:84:GLU:CB	73:d5:89:ILE:HD11	2.40	0.52
76:d8:42:ARG:NH2	76:d8:58:GLU:O	2.43	0.52
1:l:563:U:OP1	21:0:71:LYS:NZ	2.31	0.52
1:l:912:G:OP2	4:j:9:ARG:NH2	2.42	0.52
1:l:978:G:OP2	81:l:3581:OHX:N5	2.43	0.52
1:l:979:U:H1'	1:l:980:A:C8	2.44	0.52
1:l:2178:A:H5''	4:j:129:ALA:HB3	1.91	0.52
1:l:2680:A:C2	13:s:57:PHE:HB3	2.44	0.52
1:l:2835:U:H2'	1:l:2836:C:O2	2.09	0.52
1:l:3016:A:H2'	1:l:3017:A:C8	2.45	0.52
6:l:302:ALA:HB2	19:y:39:ARG:NH1	2.25	0.52
7:m:236:LEU:O	7:m:237:GLU:C	2.53	0.52
10:p:91:PHE:CE1	10:p:189:LEU:HD12	2.45	0.52
13:s:21:ILE:CD1	13:s:37:LEU:CD2	2.87	0.52
14:t:56:PRO:HB2	14:t:112:ASN:HD21	1.75	0.52
19:y:175:ALA:C	29:AB:51:GLY:HA2	2.34	0.52
32:AE:72:ARG:HG2	32:AE:96:VAL:HG11	1.92	0.52
37:AJ:58:ILE:HG22	37:AJ:90:MET:HB3	1.91	0.52
42:AO:7:LYS:HE2	42:AO:11:ARG:NH2	2.25	0.52
45:i:84:LYS:HD2	45:i:85:SER:N	2.25	0.52
1:AR:3136:G:OP2	81:AR:3604:OHX:N3	2.43	0.52
1:AR:3215:A:O5'	15:CO:121:MET:HE1	2.10	0.52
81:AR:3502:OHX:N2	9:CI:217:PRO:HA	2.25	0.52
2:AS:45:A:H2'	2:AS:46:A:H8	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:27:ALA:O	4:CD:128:ARG:NH2	2.42	0.52
7:CG:204:VAL:O	7:CG:208:MET:HG3	2.10	0.52
12:CL:89:VAL:HG22	12:CL:136:PHE:CE1	2.45	0.52
13:CM:116:TYR:HE2	13:CM:118:PRO:HB3	1.75	0.52
15:CO:21:VAL:HB	15:CO:63:VAL:CG1	2.40	0.52
18:CR:4:TYR:CZ	18:CR:18:ARG:HG3	2.44	0.52
26:CZ:72:ALA:O	26:CZ:76:VAL:HG23	2.10	0.52
29:DC:48:TYR:O	29:DC:49:HIS:CG	2.63	0.52
37:DK:58:ILE:HG23	37:DK:90:MET:HG2	1.92	0.52
39:DM:66:ILE:HG21	39:DM:77:ARG:HE	1.75	0.52
42:DP:8:LYS:O	42:DP:12:ARG:HG3	2.10	0.52
47:A:138:A:N6	47:A:266:A:H61	2.08	0.52
47:A:1500:C:OP1	67:U:106:GLN:NE2	2.34	0.52
48:B:185:ARG:H	69:W:45:ALA:H	1.58	0.52
51:E:110:LEU:CD1	51:E:175:VAL:HG23	2.39	0.52
55:I:167:GLU:HA	55:I:170:GLN:HG2	1.92	0.52
55:I:170:GLN:HG3	55:I:171:ALA:N	2.25	0.52
58:L:10:LYS:NZ	58:L:36:ASP:HB3	2.25	0.52
60:N:88:LEU:H	60:N:140:PHE:HE2	1.56	0.52
61:O:87:ASP:OD1	61:O:88:LEU:N	2.43	0.52
66:T:126:ARG:NH1	66:T:131:LEU:HD13	2.24	0.52
75:c:14:SER:HA	75:c:17:ARG:HG3	1.91	0.52
47:sR:4:C:OP1	50:s2:200:SER:OG	2.26	0.52
80:Rb:301:LEU:HD12	80:Rb:302:PHE:N	2.25	0.52
49:s1:70:LEU:HD13	49:s1:84:ILE:HD11	1.90	0.52
50:s2:186:LYS:HA	50:s2:189:GLN:HE21	1.75	0.52
51:s3:22:ASN:OD1	51:s3:22:ASN:N	2.43	0.52
52:s4:45:ILE:HA	52:s4:61:VAL:HG11	1.92	0.52
52:s4:248:ILE:HG13	57:s9:71:PHE:CE2	2.45	0.52
53:s5:40:ILE:HG12	53:s5:42:LEU:HD21	1.92	0.52
53:s5:63:GLN:HE21	53:s5:88:PRO:HA	1.75	0.52
59:c1:79:LYS:O	59:c1:79:LYS:HD3	2.10	0.52
66:c8:15:LEU:HD13	66:c8:22:VAL:HG22	1.92	0.52
66:c8:83:ALA:O	66:c8:89:GLN:NE2	2.43	0.52
1:1:80:G:H2'	1:1:81:C:H6	1.75	0.52
1:1:980:A:H2'	1:1:981:U:C1'	2.39	0.52
1:1:1213:G:H4'	21:0:90:MET:CG	2.40	0.52
1:1:1390:A:N6	1:1:1418:A:O2'	2.43	0.52
1:1:2319:U:O4	81:1:3533:OHX:N2	2.43	0.52
1:1:2689:A:H2'	1:1:2689:A:N3	2.25	0.52
3:4:36:G:P	36:AI:85:THR:HG1	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:203:ARG:HH11	6:l:240:PRO:HB3	1.75	0.52
8:n:97:ASN:OD1	8:n:99:GLU:HG2	2.10	0.52
14:t:101:ARG:HH22	14:t:112:ASN:HD21	1.56	0.52
32:AE:19:ARG:HD3	32:AE:35:GLU:CG	2.40	0.52
44:AQ:49:ARG:HD2	44:AQ:50:GLY:N	2.25	0.52
1:AR:38:U:H2'	1:AR:39:A:O4'	2.10	0.52
1:AR:59:G:H4'	1:AR:60:A:H4'	1.92	0.52
1:AR:287:G:H5'	16:CP:179:LYS:O	2.10	0.52
1:AR:651:G:OP1	81:AR:3606:OHX:N2	2.43	0.52
1:AR:2443:A:O2'	1:AR:2444:C:H5'	2.11	0.52
1:AR:3051:U:C2	1:AR:3052:G:C8	2.98	0.52
4:CD:249:SER:HB3	4:CD:251:LYS:HD3	1.92	0.52
8:CH:30:LEU:HD22	8:CH:34:LEU:HD12	1.91	0.52
12:CL:86:HIS:HB3	12:CL:139:ARG:HG3	1.92	0.52
20:CT:17:VAL:CG1	20:CT:21:LYS:HB2	2.40	0.52
35:DI:99:LYS:O	35:DI:103:LYS:HB2	2.10	0.52
45:sM:49:LYS:O	45:sM:53:ARG:NH2	2.43	0.52
47:A:154:G:H5'	54:H:108:VAL:HG11	1.92	0.52
47:A:286:C:H2'	47:A:287:G:H5'	1.92	0.52
47:A:732:G:H1'	47:A:734:A:H61	1.74	0.52
47:A:895:G:H2'	47:A:896:U:H6	1.74	0.52
47:A:1471:A:C2	47:A:1474:G:N3	2.76	0.52
47:A:1667:A:OP2	81:A:1917:OHX:N6	2.43	0.52
48:B:169:SER:HA	48:B:172:LEU:HB2	1.91	0.52
49:C:124:ASN:HB3	49:C:138:PHE:HD1	1.74	0.52
55:I:15:GLU:HB3	55:I:19:GLN:HE22	1.75	0.52
56:J:88:ASN:O	56:J:91:VAL:HG22	2.10	0.52
58:L:17:GLN:HG3	58:L:18:GLU:HG2	1.91	0.52
59:M:96:LYS:HD3	59:M:97:TYR:CE2	2.45	0.52
60:N:28:LEU:CD1	60:N:31:VAL:HG22	2.38	0.52
64:R:135:ARG:N	64:R:135:ARG:HD2	2.24	0.52
72:Z:37:LYS:HA	72:Z:40:LEU:CD1	2.40	0.52
80:h:38:ARG:HG2	80:h:67:ILE:CD1	2.37	0.52
80:h:179:LYS:HG2	80:h:191:ASP:OD1	2.10	0.52
47:sR:1481:C:H4'	47:sR:1482:C:OP1	2.10	0.52
49:s1:81:PHE:HB2	49:s1:109:LYS:HG2	1.91	0.52
52:s4:240:LYS:HD2	52:s4:240:LYS:N	2.25	0.52
53:s5:135:ASP:HA	53:s5:138:THR:HG23	1.92	0.52
53:s5:218:GLU:N	53:s5:219:ARG:HH11	1.90	0.52
58:c0:54:TYR:HD2	58:c0:72:GLY:HA2	1.74	0.52
73:d5:73:GLY:HA2	73:d5:76:ALA:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:d9:31:ILE:HG22	77:d9:38:ILE:O	2.10	0.52
1:1:1074:U:O2'	1:1:1075:A:H2'	2.09	0.51
1:1:1696:A:OP2	81:1:3609:OHX:N3	2.44	0.51
1:1:1813:A:OP1	1:1:1817:G:O2'	2.28	0.51
1:1:3330:A:H4'	5:k:366:GLY:HA3	1.92	0.51
6:l:342:LYS:NZ	9:o:56:GLU:OE1	2.40	0.51
14:t:76:THR:O	14:t:79:GLU:N	2.39	0.51
18:x:119:VAL:HA	18:x:145:HIS:O	2.10	0.51
19:y:170:ARG:HA	19:y:174:ARG:HD2	1.92	0.51
23:5:53:ALA:O	23:5:68:THR:HG22	2.10	0.51
41:AN:94:SER:HB2	41:AN:103:LEU:HB2	1.92	0.51
44:AQ:29:LEU:O	44:AQ:33:GLN:HG2	2.10	0.51
1:AR:1382:G:O6	81:AR:3437:OHX:N6	2.43	0.51
6:CF:110:ASN:HB2	16:CP:201:ARG:O	2.09	0.51
7:CG:290:ILE:HG13	7:CG:291:ALA:H	1.75	0.51
11:CK:105:GLU:HB2	11:CK:109:ALA:H	1.75	0.51
12:CL:145:LYS:O	12:CL:149:VAL:HG13	2.10	0.51
21:CU:12:ARG:HB3	21:CU:24:LEU:HD23	1.91	0.51
35:DI:104:VAL:HB	35:DI:107:GLU:HG2	1.92	0.51
47:A:706:A:N1	47:A:734:A:N6	2.56	0.51
47:A:1793:G:H22	74:b:76:SER:HB3	1.74	0.51
48:B:41:ARG:NH1	48:B:42:PRO:O	2.43	0.51
48:B:88:LYS:HG3	48:B:201:LEU:CD1	2.40	0.51
49:C:135:LEU:HD21	49:C:215:VAL:HG23	1.92	0.51
51:E:136:VAL:HG13	51:E:152:PHE:HB2	1.93	0.51
56:J:116:HIS:NE2	56:J:146:ARG:HD3	2.26	0.51
63:Q:107:ILE:HA	63:Q:111:MET:CE	2.40	0.51
68:V:24:ILE:CD1	68:V:116:VAL:HB	2.38	0.51
71:Y:13:ARG:O	71:Y:17:VAL:HG13	2.10	0.51
74:b:88:SER:O	74:b:91:ASP:N	2.41	0.51
80:h:19:TRP:O	80:h:38:ARG:HB2	2.10	0.51
47:sR:189:C:H5	56:s8:138:ASN:HD22	1.58	0.51
47:sR:1230:A:H1'	47:sR:1256:A:N1	2.25	0.51
47:sR:1454:G:O3'	63:c5:122:THR:OG1	2.28	0.51
53:s5:73:THR:N	53:s5:91:GLU:OE2	2.43	0.51
55:s7:64:VAL:O	55:s7:67:LEU:N	2.25	0.51
67:c9:9:VAL:HG11	67:c9:14:PHE:HD2	1.71	0.51
1:1:649:A:OP2	1:1:2868:U:O2'	2.29	0.51
1:1:929:A:H2'	1:1:930:U:C6	2.46	0.51
1:1:1096:U:H4'	1:1:1097:G:O5'	2.10	0.51
1:1:3375:A:O2'	1:1:3378:C:OP2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:307:PRO:HD3	5:k:311:PHE:CE2	2.46	0.51
11:q:72:LYS:HE3	11:q:76:ASP:OD2	2.09	0.51
16:v:190:THR:O	16:v:194:GLN:HG2	2.11	0.51
24:6:13:ILE:HG23	24:6:53:SER:OG	2.09	0.51
26:8:137:ASN:HB3	26:8:142:ILE:HD11	1.92	0.51
41:AN:104:PRO:HD3	41:AN:111:ARG:HH21	1.76	0.51
45:i:74:LYS:CE	63:Q:129:GLY:HA3	2.40	0.51
1:AR:123:A:C6	1:AR:150:A:C5	2.98	0.51
1:AR:138:U:H2'	1:AR:139:G:C8	2.44	0.51
1:AR:147:U:C5	10:CJ:157:VAL:HG12	2.45	0.51
1:AR:619:A:H4'	1:AR:620:U:C5'	2.40	0.51
1:AR:3052:G:H2'	1:AR:3053:G:H8	1.75	0.51
3:AT:7:U:H2'	3:AT:8:C:C6	2.45	0.51
3:AT:145:U:H2'	3:AT:146:U:C6	2.45	0.51
22:CV:84:TYR:O	22:CV:85:LEU:HD23	2.10	0.51
25:CY:17:ARG:NH1	25:CY:17:ARG:HG2	2.25	0.51
28:DB:50:PRO:HD3	28:DB:68:ILE:HG12	1.92	0.51
38:DL:29:VAL:O	38:DL:32:LYS:HE3	2.09	0.51
47:A:1303:U:O4	81:A:1931:OHX:N6	2.43	0.51
47:A:1519:U:H2'	47:A:1520:U:C5	2.46	0.51
49:C:161:ILE:H	49:C:161:ILE:HD12	1.75	0.51
54:H:27:PHE:O	54:H:30:LYS:HB2	2.10	0.51
56:J:46:VAL:HG22	56:J:54:LYS:HB3	1.92	0.51
56:J:82:VAL:HG22	56:J:196:LEU:HD21	1.93	0.51
57:K:85:VAL:HG23	57:K:103:ASP:HB3	1.92	0.51
58:L:32:HIS:HB3	58:L:35:ILE:HB	1.92	0.51
61:O:94:LYS:O	61:O:98:VAL:HG12	2.10	0.51
72:Z:78:SER:OG	72:Z:79:VAL:N	2.42	0.51
75:c:67:THR:HG21	75:c:70:LYS:O	2.09	0.51
47:sR:595:G:H2'	47:sR:596:C:C6	2.45	0.51
47:sR:600:U:OP2	71:d3:108:GLY:HA2	2.10	0.51
47:sR:1567:U:H2'	47:sR:1568:C:H5'	1.91	0.51
80:Rb:132:LYS:HZ3	80:Rb:143:THR:HG21	1.74	0.51
50:s2:158:THR:HG22	50:s2:169:LEU:HB2	1.91	0.51
51:s3:76:ARG:HG3	51:s3:77:PHE:HE1	1.75	0.51
52:s4:253:ASP:OD1	52:s4:254:ARG:N	2.43	0.51
55:s7:37:GLU:O	55:s7:41:LEU:HD11	2.10	0.51
55:s7:91:ILE:HD12	55:s7:92:PHE:H	1.74	0.51
58:c0:2:LEU:HD12	58:c0:4:PRO:HD3	1.91	0.51
77:d9:6:VAL:O	77:d9:7:TRP:CD2	2.62	0.51
1:1:1129:A:H62	12:r:115:MET:HE1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1576:G:H3'	1:1:1577:G:H8	1.74	0.51
1:1:2152:A:H2'	1:1:2153:U:H6	1.76	0.51
1:1:2573:G:OP1	28:AA:61:LYS:HE3	2.11	0.51
1:1:2619:G:OP2	81:1:3447:OHX:N3	2.43	0.51
1:1:2899:C:C5	11:q:171:ASP:HA	2.45	0.51
3:4:136:G:OP1	26:8:48:SER:OG	2.25	0.51
4:j:65:ASP:OD1	4:j:72:ARG:NH1	2.42	0.51
10:p:134:TYR:CG	10:p:190:VAL:HG21	2.45	0.51
10:p:215:VAL:O	10:p:219:ASP:HB2	2.10	0.51
13:s:153:LYS:HG3	13:s:154:THR:N	2.26	0.51
27:9:53:ASP:HB2	27:9:110:HIS:ND1	2.26	0.51
1:AR:269:G:P	16:CP:44:ARG:HH22	2.34	0.51
1:AR:687:U:OP2	14:CN:36:ARG:NH2	2.43	0.51
1:AR:1120:A:H2'	1:AR:1121:U:C6	2.45	0.51
1:AR:1249:G:H2'	1:AR:1250:G:H8	1.74	0.51
1:AR:2407:C:H2'	1:AR:2408:U:C6	2.45	0.51
1:AR:3107:U:OP1	41:DO:114:LYS:NZ	2.40	0.51
1:AR:3230:G:H5''	15:CO:132:LYS:HD2	1.92	0.51
5:CE:293:ASN:HB2	5:CE:304:THR:HA	1.91	0.51
19:CS:58:ASN:C	19:CS:60:PRO:HD3	2.36	0.51
19:CS:177:GLY:O	19:CS:186:VAL:N	2.42	0.51
20:CT:23:TRP:HB3	20:CT:51:VAL:HG22	1.92	0.51
45:sM:61:ILE:HD13	66:c8:125:ILE:HA	1.91	0.51
47:A:273:G:N2	47:A:283:U:O2	2.31	0.51
47:A:460:A:H3'	47:A:461:G:H8	1.75	0.51
47:A:536:C:P	57:K:174:ARG:HH22	2.34	0.51
47:A:609:U:H4'	47:A:610:G:O5'	2.09	0.51
47:A:747:C:H2'	47:A:748:U:H6	1.75	0.51
47:A:1320:U:O2	47:A:1322:A:H5'	2.09	0.51
47:A:1350:U:H2'	47:A:1351:G:C8	2.46	0.51
49:C:57:ALA:HB1	49:C:61:LEU:CD2	2.38	0.51
51:E:41:VAL:HG11	68:V:112:VAL:H	1.75	0.51
51:E:52:ALA:O	51:E:91:VAL:HG12	2.11	0.51
76:d:39:THR:O	76:d:40:ILE:HG12	2.11	0.51
80:h:260:ILE:HD11	80:h:274:LEU:HD23	1.93	0.51
80:h:289:ALA:HA	80:h:305:TYR:HA	1.93	0.51
47:sR:151:G:N2	47:sR:163:G:H22	2.09	0.51
47:sR:153:G:H2'	47:sR:154:G:H8	1.75	0.51
47:sR:1345:A:H2'	47:sR:1348:A:H62	1.75	0.51
47:sR:1478:G:H5'	67:c9:47:PRO:HB3	1.93	0.51
48:s0:168:HIS:HB3	48:s0:203:PHE:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s0:185:ARG:HG2	48:s0:185:ARG:O	2.08	0.51
51:s3:72:LEU:HD12	58:c0:20:VAL:HG21	1.92	0.51
51:s3:98:ALA:HB2	51:s3:188:ILE:HD12	1.93	0.51
57:s9:66:ASP:O	57:s9:70:LEU:HD23	2.11	0.51
66:c8:11:PHE:CZ	66:c8:59:GLY:HA3	2.45	0.51
70:d2:94:LEU:HD11	70:d2:102:VAL:HG23	1.91	0.51
1:1:209:A:H4'	1:1:211:A:C8	2.45	0.51
1:1:1389:G:OP2	81:1:3482[A]:OHX:N4	2.44	0.51
1:1:1497:C:O2'	1:1:1602:A:N3	2.42	0.51
1:1:1688:U:H2'	1:1:1689:U:C6	2.45	0.51
1:1:2763:U:O2	83:1:4144:SPD:N1	2.44	0.51
1:1:2859:U:O2'	81:1:3403:OHX:N1	2.42	0.51
3:4:142:C:H2'	3:4:143:U:C6	2.45	0.51
5:k:60:LEU:HD23	5:k:60:LEU:C	2.36	0.51
10:p:225:LYS:O	10:p:229:VAL:HG13	2.10	0.51
16:v:183:THR:CG2	16:v:187:ARG:HB2	2.40	0.51
24:6:86:ARG:HD2	24:6:92:PHE:CZ	2.46	0.51
31:AD:17:VAL:HG12	31:AD:98:SER:HB2	1.92	0.51
1:AR:51:A:C4	1:AR:52:A:C8	2.99	0.51
1:AR:256:G:H2'	1:AR:257:U:C6	2.45	0.51
1:AR:291:C:OP1	16:CP:68:ARG:HB3	2.11	0.51
1:AR:507:U:H2'	1:AR:508:U:C6	2.46	0.51
1:AR:976:U:H2'	1:AR:977:C:O4'	2.09	0.51
1:AR:1336:U:H2'	1:AR:1337:A:H8	1.76	0.51
1:AR:1709:C:H2'	1:AR:1710:C:H6	1.75	0.51
1:AR:2234:G:N7	81:AR:3462:OHX:N1	2.58	0.51
6:CF:191:LYS:HB2	6:CF:194:TYR:CZ	2.45	0.51
9:CI:52:GLN:NE2	9:CI:56:GLU:OE2	2.43	0.51
47:A:895:G:H1	47:A:917:U:H3	1.57	0.51
47:A:1530:C:P	73:a:95:HIS:HB2	2.50	0.51
52:F:36:HIS:CG	52:F:85:GLY:HA3	2.46	0.51
52:F:151:ASP:OD1	52:F:153:ASN:N	2.32	0.51
53:G:89:ILE:HD12	53:G:90:ILE:N	2.25	0.51
63:Q:37:ALA:HB1	63:Q:41:VAL:HG11	1.91	0.51
64:R:52:LEU:HD22	64:R:60:PHE:CZ	2.45	0.51
67:U:108:LEU:HA	67:U:111:ILE:HB	1.91	0.51
70:X:22:LYS:HD3	75:c:3:LEU:HA	1.90	0.51
72:Z:128:LYS:HA	72:Z:131:ARG:NH1	2.26	0.51
73:a:39:ALA:O	73:a:71:ILE:HA	2.11	0.51
47:sR:1450:U:OP2	81:sR:1981:OHX:N4	2.44	0.51
47:sR:1645:G:H1	47:sR:1756:A:N6	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:66:VAL:HG23	62:c4:33:LEU:O	2.09	0.51
49:s1:145:LYS:HG2	49:s1:149:GLN:OE1	2.09	0.51
51:s3:76:ARG:HD3	58:c0:63:TYR:CD2	2.45	0.51
52:s4:140:VAL:HA	52:s4:145:ARG:O	2.10	0.51
53:s5:72:HIS:O	64:c6:47:LYS:HE2	2.10	0.51
55:s7:109:VAL:O	55:s7:110:GLN:HB3	2.11	0.51
69:d1:39:VAL:HG22	69:d1:45:ALA:HA	1.91	0.51
1:l:671:U:OP2	19:y:57:ILE:HD13	2.10	0.51
1:l:807:A:H61	1:l:934:G:H22	1.57	0.51
1:l:2514:U:OP2	1:l:2586:G:N2	2.43	0.51
1:l:2563:G:OP2	28:AA:55:LYS:NZ	2.30	0.51
1:l:2723:U:OP1	22:2:87:LYS:HE3	2.10	0.51
1:l:3295:A:H2'	1:l:3296:A:C8	2.46	0.51
5:k:60:LEU:HD21	5:k:62:ARG:CB	2.41	0.51
6:l:140:HIS:HA	6:l:177:ASP:OD1	2.10	0.51
14:t:15:ARG:HG3	14:t:15:ARG:NH1	2.26	0.51
15:u:127:LYS:O	15:u:131:VAL:HG13	2.11	0.51
1:AR:109:A:H4'	1:AR:110:G:OP1	2.10	0.51
1:AR:364:G:O3'	6:CF:84:ARG:HG2	2.11	0.51
1:AR:1754:G:O6	81:AR:3579:OHX:N2	2.43	0.51
1:AR:3094:A:H2'	1:AR:3095:U:C6	2.45	0.51
4:CD:65:ASP:HB3	4:CD:68:LYS:O	2.10	0.51
5:CE:148:LEU:O	5:CE:152:LYS:HG3	2.11	0.51
6:CF:345:GLU:OE2	6:CF:345:GLU:HA	2.10	0.51
20:CT:172:ARG:NH2	47:sR:851:U:OP1	2.44	0.51
28:DB:17:ARG:NH2	28:DB:18:TYR:OH	2.43	0.51
34:DH:8:TYR:CE1	34:DH:99:ARG:HG2	2.45	0.51
47:A:304:U:H2'	47:A:305:C:H6	1.76	0.51
47:A:331:A:H5'	56:J:33:PRO:HA	1.92	0.51
47:A:1073:G:C2'	47:A:1074:G:H5''	2.36	0.51
47:A:1110:G:N7	81:A:1927:OHX:N3	2.59	0.51
48:B:67:ILE:HD11	48:B:120:LEU:HD12	1.91	0.51
48:B:179:ARG:HD3	48:B:183:ARG:HD2	1.92	0.51
52:F:11:ARG:NH2	52:F:24:SER:OG	2.43	0.51
52:F:68:ARG:NH2	52:F:76:VAL:HG21	2.25	0.51
53:G:57:SER:OG	53:G:167:ARG:NH1	2.44	0.51
54:H:71:THR:HG22	54:H:72:ARG:H	1.75	0.51
55:I:69:GLY:O	55:I:73:VAL:HG23	2.11	0.51
56:J:159:GLN:HB2	56:J:165:LEU:HD23	1.93	0.51
61:O:129:TYR:HA	61:O:132:VAL:HG22	1.92	0.51
67:U:132:LEU:O	67:U:135:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:b:17:HIS:NE2	74:b:19:LYS:HD2	2.25	0.51
47:sR:15:U:H2'	47:sR:16:G:O4'	2.11	0.51
47:sR:140:A:O2'	54:s6:149:LYS:HE3	2.11	0.51
47:sR:186:C:H2'	47:sR:187:G:O4'	2.11	0.51
47:sR:703:G:H2'	47:sR:704:C:H6	1.74	0.51
47:sR:715:U:H2'	47:sR:716:C:C6	2.46	0.51
47:sR:789:A:H2	52:s4:248:ILE:HG12	1.75	0.51
57:s9:140:ILE:HD12	57:s9:140:ILE:H	1.73	0.51
57:s9:160:PRO:O	57:s9:167:ALA:HB2	2.09	0.51
64:c6:69:VAL:HG21	64:c6:81:ILE:HG13	1.91	0.51
66:c8:117:LYS:O	66:c8:120:ARG:HD2	2.10	0.51
68:d0:25:THR:O	68:d0:26:LEU:HD23	2.11	0.51
69:d1:36:VAL:HG11	69:d1:78:LEU:HD13	1.93	0.51
1:1:304:G:H5'	1:1:304:G:N3	2.26	0.51
1:1:398:A:O2'	1:1:1416:C:OP1	2.24	0.51
1:1:428:A:H2'	1:1:429:U:C6	2.45	0.51
1:1:2574:G:H2'	1:1:2575:G:C8	2.46	0.51
1:1:2679:A:O2'	13:s:52:TYR:OH	2.25	0.51
1:1:2723:U:H2'	1:1:2724:U:H6	1.75	0.51
1:1:2741:C:O2'	43:AP:20:HIS:ND1	2.35	0.51
2:3:7:G:O3'	7:m:33:ARG:NH2	2.44	0.51
3:4:127:U:H2'	3:4:128:U:H5'	1.92	0.51
4:j:251:LYS:HE3	47:A:986:G:OP2	2.11	0.51
8:n:137:ASP:O	8:n:141:VAL:HG22	2.10	0.51
10:p:89:GLU:OE1	10:p:92:LYS:HD2	2.11	0.51
12:r:48:LEU:HD12	12:r:49:CYS:H	1.75	0.51
14:t:190:LYS:O	14:t:190:LYS:HG2	2.11	0.51
17:w:23:VAL:HG13	17:w:33:ILE:HG21	1.93	0.51
20:z:147:ALA:O	20:z:151:ARG:HD3	2.10	0.51
43:AP:2:VAL:N	43:AP:90:HIS:O	2.43	0.51
1:AR:1317:A:O2'	1:AR:1318:A:H3'	2.11	0.51
1:AR:1498:A:H2'	1:AR:1499:C:C6	2.46	0.51
1:AR:3159:C:H2'	1:AR:3160:U:C6	2.45	0.51
81:AR:3505:OHX:N5	20:CT:87:ALA:O	2.43	0.51
3:AT:136:G:OP1	26:CZ:48:SER:OG	2.23	0.51
4:CD:143:GLU:O	4:CD:143:GLU:HG2	2.10	0.51
10:CJ:45:ASN:HD21	10:CJ:47:SER:HB3	1.75	0.51
13:CM:99:THR:O	13:CM:154:THR:OG1	2.28	0.51
16:CP:11:GLN:HE21	16:CP:44:ARG:NH1	2.09	0.51
29:DC:118:ILE:HD11	29:DC:138:ILE:HG22	1.93	0.51
33:DG:4:LEU:HD22	33:DG:91:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:p0:37:GLN:NE2	46:p0:184:GLY:HA2	2.22	0.51
46:p0:97:LYS:HD3	46:p0:97:LYS:C	2.36	0.51
47:A:772:G:N2	47:A:774:A:H1'	2.23	0.51
47:A:1067:C:H2'	47:A:1068:C:C6	2.46	0.51
47:A:1330:G:H1	51:E:204:ASP:CG	2.18	0.51
47:A:1545:A:H2'	47:A:1546:G:C8	2.45	0.51
48:B:60:ALA:O	48:B:63:ILE:HG12	2.11	0.51
55:I:4:PRO:HB2	55:I:25:VAL:HG11	1.93	0.51
55:I:74:GLN:HA	55:I:77:LEU:HB3	1.92	0.51
63:Q:43:ARG:O	63:Q:47:ARG:HG3	2.11	0.51
64:R:86:ALA:O	64:R:90:VAL:HG13	2.11	0.51
79:g:110:ALA:HB3	79:g:113:LYS:CB	2.41	0.51
80:h:4:ASN:ND2	80:h:318:ALA:H	2.08	0.51
80:h:121:MET:HE3	80:h:183:LEU:HD23	1.92	0.51
47:sR:83:G:OP2	81:sR:1954:OHX:N4	2.44	0.51
47:sR:477:A:P	78:e0:28:LYS:HZ3	2.34	0.51
47:sR:1222:C:H2'	47:sR:1223:A:O4'	2.11	0.51
47:sR:1660:A:H2'	47:sR:1661:U:C6	2.45	0.51
51:s3:59:LEU:HD11	51:s3:88:ALA:HB2	1.92	0.51
53:s5:175:LEU:HD12	53:s5:176:THR:N	2.26	0.51
55:s7:28:GLU:HB3	55:s7:35:LYS:CD	2.29	0.51
61:c3:55:ARG:NH1	61:c3:56:ASP:OD1	2.29	0.51
62:c4:87:GLY:HA3	62:c4:120:PRO:HG2	1.91	0.51
67:c9:29:GLU:OE2	67:c9:29:GLU:HA	2.10	0.51
1:1:1073:U:H2'	1:1:1074:U:C6	2.45	0.51
1:1:1272:C:H2'	1:1:1273:A:O4'	2.11	0.51
1:1:1492:G:O2'	40:AM:48:LYS:NZ	2.44	0.51
1:1:1806:A:H2'	1:1:1807:G:O4'	2.11	0.51
1:1:2808:A:H5'	1:1:2808:A:C8	2.46	0.51
1:1:2944:U:H1'	5:k:251:CYS:SG	2.51	0.51
1:1:3165:A:O2'	1:1:3166:C:H5'	2.10	0.51
6:l:141:ARG:CZ	6:l:180:LYS:HD3	2.41	0.51
13:s:106:ILE:CD1	13:s:112:LEU:HD21	2.41	0.51
19:y:34:THR:HA	19:y:49:LEU:HD22	1.92	0.51
31:AD:92:ILE:O	31:AD:92:ILE:HD12	2.10	0.51
38:AK:17:THR:HG22	38:AK:18:LEU:N	2.26	0.51
1:AR:147:U:O4	10:CJ:157:VAL:HA	2.10	0.51
1:AR:945:C:H2'	1:AR:946:U:H6	1.75	0.51
1:AR:1728:G:H5''	1:AR:1730:G:O4'	2.11	0.51
1:AR:2767:U:OP1	43:DQ:34:SER:HB3	2.10	0.51
1:AR:2787:G:H2'	1:AR:2788:C:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:6:U:H2'	3:AT:7:U:C6	2.46	0.51
6:CF:353:ALA:O	6:CF:357:GLU:HG3	2.10	0.51
15:CO:41:GLN:O	15:CO:41:GLN:HG3	2.09	0.51
25:CY:17:ARG:HG2	25:CY:17:ARG:HH11	1.75	0.51
27:DA:42:GLN:O	27:DA:125:LYS:HD2	2.09	0.51
27:DA:54:ASP:CG	27:DA:115:ARG:HH12	2.17	0.51
28:DB:128:GLN:HG2	28:DB:128:GLN:O	2.11	0.51
29:DC:39:HIS:O	29:DC:42:ARG:N	2.36	0.51
47:A:1079:U:H2'	47:A:1080:U:C6	2.46	0.51
47:A:1302:U:OP2	50:D:88:LYS:NZ	2.43	0.51
47:A:1490:C:H4'	47:A:1491:U:OP1	2.11	0.51
47:A:1502:G:O6	67:U:102:ARG:NH2	2.44	0.51
47:A:1521:G:O2'	47:A:1523:G:OP2	2.17	0.51
47:A:1642:G:H2'	47:A:1643:U:H6	1.76	0.51
48:B:140:ASN:HD21	69:W:29:HIS:C	2.19	0.51
55:I:46:ILE:HD11	55:I:60:ILE:HG13	1.93	0.51
55:I:58:LEU:O	55:I:90:VAL:HG23	2.10	0.51
59:M:56:LYS:HG2	59:M:57:LYS:HG2	1.93	0.51
66:T:23:ASP:HB3	66:T:26:ILE:HG22	1.92	0.51
68:V:19:ILE:HG22	68:V:20:ILE:H	1.76	0.51
69:W:82:VAL:HG13	69:W:83:TRP:N	2.25	0.51
70:X:35:ILE:HG22	70:X:61:ILE:HD11	1.92	0.51
71:Y:137:LYS:O	71:Y:139:LYS:HG3	2.11	0.51
74:b:53:LEU:HD23	74:b:54:SER:N	2.25	0.51
74:b:84:VAL:CG1	74:b:85:ARG:H	2.24	0.51
79:g:110:ALA:HB3	79:g:113:LYS:HB2	1.93	0.51
80:h:22:SER:O	80:h:23:LEU:HD23	2.10	0.51
80:h:153:GLN:NE2	80:h:202:LEU:H	2.08	0.51
47:sR:650:U:H5'	57:s9:65:LYS:HE2	1.91	0.51
47:sR:765:G:N7	57:s9:149:ARG:NE	2.59	0.51
47:sR:886:U:O2'	62:c4:121:VAL:O	2.26	0.51
47:sR:1136:U:O4	71:d3:112:LYS:HE3	2.10	0.51
47:sR:1487:A:OP1	77:d9:34:TYR:OH	2.19	0.51
80:Rb:213:SER:OG	80:Rb:214:ALA:N	2.43	0.51
62:c4:13:VAL:HG21	62:c4:75:GLY:O	2.11	0.51
71:d3:70:LYS:HB3	71:d3:93:LEU:CD1	2.41	0.51
72:d4:104:SER:HB3	72:d4:107:GLN:HG3	1.92	0.51
1:1:739:G:O6	81:1:3442:OHX:N3	2.44	0.51
1:1:985:U:H2'	1:1:986:U:H6	1.74	0.51
1:1:2186:U:H2'	1:1:2187:G:O4'	2.10	0.51
1:1:2852:C:N3	12:r:158:LYS:NZ	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3291:G:H2'	1:1:3292:A:H8	1.75	0.51
83:1:4144:SPD:H41	29:AB:38:GLN:NE2	2.23	0.51
2:3:19:C:H2'	2:3:20:A:H8	1.76	0.51
4:j:186:PHE:HB2	4:j:196:TRP:CH2	2.46	0.51
11:q:26:LYS:HG3	11:q:35:THR:HG22	1.93	0.51
16:v:24:ARG:HG3	16:v:24:ARG:HH11	1.76	0.51
19:y:30:VAL:O	19:y:34:THR:HG23	2.11	0.51
1:AR:275:U:H2'	1:AR:276:U:C6	2.46	0.51
1:AR:284:A:H4'	1:AR:285:A:C2	2.46	0.51
1:AR:385:A:H2'	1:AR:386:A:C8	2.46	0.51
1:AR:595:G:C8	1:AR:609:G:C6	2.98	0.51
1:AR:2815:G:N2	1:AR:2818:U:O2	2.40	0.51
3:AT:79:A:H3'	3:AT:80:A:O4'	2.10	0.51
7:CG:52:VAL:HG22	7:CG:63:GLN:HB2	1.93	0.51
8:CH:40:LEU:HD13	8:CH:54:TYR:HB2	1.91	0.51
15:CO:36:VAL:HG12	15:CO:75:GLY:HA2	1.92	0.51
16:CP:103:GLU:OE2	16:CP:118:SER:OG	2.28	0.51
23:CW:33:TYR:HA	23:CW:83:TYR:CE2	2.46	0.51
31:DE:43:ILE:HG22	31:DE:70:PHE:HB2	1.93	0.51
39:DM:7:ASP:HB3	39:DM:10:GLN:HB3	1.93	0.51
47:A:498:G:O2'	47:A:499:U:O5'	2.29	0.51
47:A:610:G:H2'	47:A:614:C:C5	2.46	0.51
47:A:989:U:H3'	47:A:990:C:C6	2.45	0.51
47:A:1657:U:H4'	47:A:1658:G:O5'	2.09	0.51
50:D:106:ASP:OD1	50:D:107:SER:N	2.36	0.51
53:G:202:ALA:O	53:G:203:LYS:HG2	2.11	0.51
61:O:27:LYS:H	61:O:27:LYS:HD2	1.76	0.51
65:S:51:ALA:HA	65:S:54:THR:CG2	2.41	0.51
72:Z:123:LYS:HG3	72:Z:124:ARG:N	2.25	0.51
47:sR:228:G:H22	47:sR:237:C:N4	2.09	0.51
47:sR:694:U:H3'	47:sR:695:U:O2	2.11	0.51
47:sR:1159:C:H5''	47:sR:1160:A:H5'	1.91	0.51
47:sR:1230:A:C5	47:sR:1231:U:H1'	2.46	0.51
47:sR:1502:G:N7	67:c9:102:ARG:NH2	2.54	0.51
80:Rb:124:SER:O	80:Rb:154:VAL:HG11	2.10	0.51
49:s1:175:GLU:O	49:s1:187:LYS:NZ	2.44	0.51
51:s3:58:VAL:O	51:s3:66:ILE:HB	2.11	0.51
53:s5:81:ARG:HB2	53:s5:82:PHE:CD1	2.46	0.51
56:s8:5:ARG:HG3	56:s8:28:GLU:O	2.11	0.51
64:c6:108:ALA:O	64:c6:111:SER:OG	2.29	0.51
67:c9:31:PRO:HD3	67:c9:54:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:424:G:N2	33:AF:24:ARG:HH21	2.09	0.51
1:1:664:U:H2'	1:1:665:A:H8	1.75	0.51
1:1:1565:G:H21	1:1:1575:A:N6	2.09	0.51
1:1:2947:G:OP2	1:1:2947:G:H4'	2.10	0.51
3:4:87:G:OP2	36:AI:5:LYS:NZ	2.42	0.51
5:k:186:GLY:O	5:k:191:LYS:HE2	2.11	0.51
7:m:106:ALA:HB2	7:m:166:ALA:HA	1.92	0.51
17:w:58:LEU:HA	17:w:72:HIS:CD2	2.46	0.51
37:AJ:25:LYS:HD3	37:AJ:28:TYR:CE1	2.46	0.51
39:AL:40:GLN:HE21	39:AL:55:VAL:HG23	1.76	0.51
1:AR:277:G:H2'	1:AR:278:U:C6	2.45	0.51
1:AR:533:A:OP2	81:AR:3583:OHX:N6	2.44	0.51
1:AR:1659:U:H2'	1:AR:1660:C:H6	1.76	0.51
1:AR:1716:U:O2'	1:AR:1717:U:H4'	2.11	0.51
1:AR:2201:G:H2'	1:AR:2202:C:C6	2.46	0.51
1:AR:2666:C:H5''	45:sM:30:THR:HG23	1.93	0.51
1:AR:2705:A:OP2	81:AR:3401:OHX:N2	2.44	0.51
6:CF:321:LYS:HA	6:CF:324:LEU:HB3	1.93	0.51
9:CI:191:VAL:HG13	9:CI:195:PHE:CG	2.46	0.51
12:CL:156:ARG:HD2	12:CL:163:GLN:O	2.11	0.51
20:CT:43:LYS:HG3	20:CT:44:LEU:N	2.25	0.51
23:CW:94:ARG:HH11	23:CW:94:ARG:HG2	1.76	0.51
36:DJ:30:GLU:O	36:DJ:34:GLN:HG3	2.11	0.51
45:sM:74:LYS:HG2	63:c5:129:GLY:HA3	1.93	0.51
47:A:213:A:H2'	47:A:214:G:O4'	2.11	0.51
47:A:1796:C:H1'	74:b:7:SER:HB3	1.92	0.51
49:C:46:THR:HG22	49:C:47:LEU:N	2.23	0.51
49:C:92:GLN:H	49:C:95:ASN:CB	2.23	0.51
50:D:47:ALA:O	50:D:49:LYS:HG2	2.11	0.51
57:K:74:ASN:HA	57:K:77:ILE:CD1	2.38	0.51
61:O:91:LEU:HB3	61:O:122:ILE:HG12	1.91	0.51
64:R:129:PHE:CD2	68:V:79:TRP:HB2	2.46	0.51
71:Y:12:ALA:O	71:Y:16:ARG:HG2	2.11	0.51
75:c:21:LEU:HD22	75:c:26:GLN:HE22	1.76	0.51
78:f:27:PRO:HB2	78:f:29:LYS:HZ3	1.74	0.51
47:sR:1183:A:C2	63:c5:100:LYS:HB3	2.46	0.51
48:s0:84:ARG:NH1	48:s0:84:ARG:HG2	2.21	0.51
56:s8:25:ARG:O	56:s8:28:GLU:HG2	2.11	0.51
62:c4:13:VAL:O	62:c4:77:THR:OG1	2.29	0.51
63:c5:75:PRO:HA	63:c5:93:VAL:HB	1.93	0.51
66:c8:108:LYS:HA	66:c8:111:ASP:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:c9:105:LEU:HB3	67:c9:122:ARG:NH1	2.26	0.51
1:1:361:A:H5'	38:AK:35:SER:OG	2.11	0.51
1:1:539:C:H2'	1:1:540:U:C6	2.46	0.51
1:1:1295:G:H2'	1:1:1296:C:C6	2.46	0.51
1:1:2904:U:H2'	1:1:2905:U:C6	2.46	0.51
14:t:138:VAL:HG11	14:t:144:THR:HG21	1.91	0.51
17:w:185:ALA:O	17:w:188:SER:HB3	2.10	0.51
34:AG:35:VAL:HG13	34:AG:40:ASP:HB3	1.93	0.51
35:AH:86:LYS:O	35:AH:90:ILE:HG13	2.11	0.51
45:i:59:GLY:O	45:i:63:ASP:CB	2.59	0.51
45:i:103:LYS:HD2	45:i:106:VAL:CG2	2.41	0.51
1:AR:14:U:H1'	26:CZ:42:ARG:HD2	1.93	0.51
1:AR:394:G:N1	1:AR:397:A:OP2	2.41	0.51
1:AR:2904:U:H2'	1:AR:2905:U:H6	1.74	0.51
1:AR:3371:G:H2'	1:AR:3372:A:C8	2.46	0.51
2:AS:121:U:H5''	7:CG:265:TYR:HE1	1.75	0.51
5:CE:86:VAL:HG22	5:CE:162:VAL:HG12	1.93	0.51
6:CF:169:LEU:HA	6:CF:172:VAL:HG22	1.93	0.51
7:CG:242:SER:O	7:CG:245:GLU:HG2	2.10	0.51
9:CI:110:ARG:NH1	19:CS:3:ILE:HD11	2.25	0.51
10:CJ:106:LYS:O	10:CJ:110:THR:HG22	2.11	0.51
14:CN:86:THR:HG23	14:CN:89:TYR:H	1.76	0.51
17:CQ:98:ALA:HA	17:CQ:101:ARG:HH11	1.75	0.51
20:CT:44:LEU:HB3	20:CT:50:ILE:HG13	1.93	0.51
31:DE:24:THR:CG2	31:DE:91:SER:HB3	2.41	0.51
33:DG:32:TRP:CZ2	33:DG:53:PRO:HD2	2.46	0.51
44:DR:27:LYS:O	44:DR:31:ILE:HG13	2.10	0.51
44:DR:50:GLY:O	44:DR:54:ILE:HB	2.10	0.51
45:sM:69:ARG:NH1	45:sM:73:SER:HA	2.27	0.51
47:A:296:U:H2'	47:A:297:U:C6	2.46	0.51
47:A:635:A:H2'	47:A:636:A:H8	1.76	0.51
47:A:927:C:H2'	47:A:928:U:C6	2.45	0.51
47:A:1798:U:C6	74:b:97:PRO:HB3	2.46	0.51
48:B:59:LEU:HD11	69:W:78:LEU:HD12	1.93	0.51
48:B:68:PRO:HB2	50:D:244:SER:OG	2.11	0.51
48:B:105:GLY:N	48:B:135:GLU:OE2	2.39	0.51
50:D:237:VAL:HG12	50:D:242:ILE:HD11	1.93	0.51
54:H:135:PRO:HB2	54:H:141:ILE:HG13	1.91	0.51
71:Y:41:SER:OG	71:Y:41:SER:O	2.28	0.51
80:h:118:LYS:HE3	80:h:120:SER:OG	2.11	0.51
80:h:207:ASP:OD1	80:h:209:THR:OG1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:68:A:H3'	47:sR:68:A:N3	2.26	0.51
47:sR:138:A:N3	47:sR:138:A:H5''	2.25	0.51
47:sR:1159:C:N3	81:sR:1990:OHX:N3	2.59	0.51
47:sR:1175:U:OP2	66:c8:137:HIS:ND1	2.43	0.51
47:sR:1368:G:H5''	67:c9:69:LYS:HG2	1.92	0.51
80:Rb:192:PHE:HD2	80:Rb:223:TRP:CG	2.28	0.51
80:Rb:249:ARG:HD2	80:Rb:251:TRP:CZ3	2.46	0.51
80:Rb:299:GLN:O	80:Rb:314:GLN:HB2	2.10	0.51
50:s2:180:ALA:HB1	50:s2:184:VAL:HG13	1.92	0.51
55:s7:141:ARG:HA	70:d2:51:GLU:HG3	1.93	0.51
63:c5:18:ARG:NH2	63:c5:38:PRO:HG3	2.26	0.51
65:c7:27:ASP:O	65:c7:31:ASN:ND2	2.44	0.51
72:d4:57:VAL:HB	72:d4:60:PHE:HE1	1.75	0.51
1:1:103:G:OP1	14:t:70:ARG:NH2	2.44	0.50
1:1:401:U:H4'	1:1:403:C:C2	2.46	0.50
1:1:839:C:H4'	1:1:1724:U:H2'	1.93	0.50
1:1:1103:A:H1'	1:1:1104:G:OP1	2.11	0.50
1:1:1804:A:OP1	35:AH:70:LYS:NZ	2.44	0.50
1:1:2395:G:H4'	5:k:258:ALA:HB1	1.93	0.50
1:1:3013:U:H2'	1:1:3014:U:C6	2.46	0.50
7:m:262:LYS:HD3	7:m:262:LYS:H	1.77	0.50
10:p:211:LEU:O	10:p:215:VAL:HG13	2.10	0.50
11:q:10:ILE:HD13	11:q:75:VAL:HB	1.92	0.50
39:AL:66:ILE:O	39:AL:69:LEU:HD23	2.10	0.50
1:AR:98:G:OP1	14:CN:16:LYS:NZ	2.44	0.50
1:AR:2131:A:N6	44:DR:18:TYR:HA	2.25	0.50
1:AR:3199:G:O6	81:AR:3636:OHX:N4	2.43	0.50
19:CS:176:ARG:O	29:DC:51:GLY:N	2.43	0.50
26:CZ:50:ALA:HB2	36:DJ:77:PRO:CB	2.41	0.50
28:DB:15:ARG:HH11	28:DB:15:ARG:HG2	1.76	0.50
37:DK:9:ILE:HA	37:DK:13:LYS:HG2	1.93	0.50
47:A:155:U:H4'	54:H:59:GLN:H	1.76	0.50
47:A:733:A:O2'	47:A:735:C:H5	1.94	0.50
47:A:792:U:H2'	47:A:793:A:N7	2.26	0.50
47:A:912:U:H4'	47:A:913:G:O5'	2.10	0.50
47:A:980:G:H4'	47:A:1776:A:H4'	1.93	0.50
49:C:61:LEU:CD1	49:C:64:ARG:HH22	2.24	0.50
49:C:88:VAL:HG13	49:C:96:LEU:CD2	2.41	0.50
52:F:185:GLY:HA3	52:F:224:ASN:ND2	2.26	0.50
53:G:51:VAL:HG22	53:G:128:ASN:HD21	1.75	0.50
53:G:72:HIS:CD2	53:G:107:LYS:HG2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G:121:ILE:HD12	53:G:122:ASN:H	1.75	0.50
55:I:40:PRO:C	55:I:41:LEU:HD12	2.36	0.50
55:I:153:LEU:HD13	55:I:184:GLU:HB3	1.93	0.50
59:M:75:VAL:HG13	59:M:119:VAL:HA	1.91	0.50
63:Q:26:LEU:HD23	63:Q:27:GLU:N	2.26	0.50
76:d:64:ARG:HG3	76:d:65:ARG:H	1.76	0.50
80:h:39:ASP:OD1	80:h:39:ASP:N	2.39	0.50
47:sR:200:A:H2'	47:sR:201:G:C8	2.45	0.50
47:sR:501:U:H2'	47:sR:502:U:C6	2.46	0.50
47:sR:853:G:H2'	47:sR:854:U:H6	1.75	0.50
47:sR:1065:A:OP1	81:s1:301:OHX:N4	2.43	0.50
47:sR:1565:C:H2'	47:sR:1566:U:H6	1.75	0.50
48:s0:57:LEU:O	48:s0:60:ALA:HB3	2.11	0.50
49:s1:36:SER:HA	49:s1:41:ARG:NH1	2.24	0.50
49:s1:116:LYS:HD2	49:s1:117:TRP:CZ2	2.47	0.50
51:s3:157:LEU:HA	51:s3:189:MET:HE2	1.92	0.50
57:s9:107:ARG:HH21	57:s9:149:ARG:HA	1.76	0.50
59:c1:43:LYS:NZ	59:c1:44:THR:O	2.44	0.50
62:c4:89:THR:O	62:c4:128:LYS:NZ	2.31	0.50
63:c5:85:ILE:HA	63:c5:89:MET:CE	2.39	0.50
70:d2:23:ARG:HG2	70:d2:65:LEU:O	2.11	0.50
74:d6:59:TYR:HB3	74:d6:62:TYR:HB3	1.93	0.50
1:1:1495:U:H5	1:1:1835:A:N1	2.10	0.50
1:1:1506:A:H1'	1:1:1848:G:O6	2.11	0.50
1:1:1942:U:HO2'	1:1:3345:G:HO2'	1.58	0.50
1:1:2266:U:H2'	1:1:2267:C:C6	2.47	0.50
1:1:2662:G:H2'	1:1:2663:G:C8	2.45	0.50
2:3:68:C:OP1	7:m:14:SER:OG	2.24	0.50
6:l:62:ALA:HB3	6:l:90:PHE:CE2	2.44	0.50
9:o:25:GLN:HA	9:o:28:ALA:H	1.75	0.50
9:o:197:GLN:OE1	9:o:197:GLN:N	2.31	0.50
12:r:48:LEU:HD22	12:r:142:ASP:HA	1.94	0.50
24:6:86:ARG:HA	24:6:91:VAL:O	2.12	0.50
36:AI:101:THR:HG22	36:AI:103:LYS:N	2.25	0.50
37:AJ:83:ALA:O	37:AJ:87:VAL:HG12	2.10	0.50
45:i:65:THR:O	63:Q:130:ARG:NH2	2.44	0.50
1:AR:80:G:H2'	1:AR:81:C:H6	1.76	0.50
1:AR:519:A:O5'	9:CI:70:LYS:NZ	2.44	0.50
1:AR:849:C:H2'	1:AR:850:U:H6	1.76	0.50
1:AR:1176:C:H2'	1:AR:1177:G:N2	2.26	0.50
1:AR:2160:G:H2'	1:AR:2161:G:C8	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2556:C:OP1	35:DI:88:ARG:NH2	2.43	0.50
3:AT:86:U:H5'	3:AT:87:G:OP1	2.11	0.50
3:AT:143:U:OP1	16:CP:38:ARG:NH2	2.42	0.50
8:CH:100:LYS:HE3	8:CH:105:TYR:HE2	1.76	0.50
17:CQ:22:VAL:HG21	17:CQ:120:VAL:HG11	1.91	0.50
19:CS:165:ILE:HG13	19:CS:167:SER:O	2.12	0.50
23:CW:43:VAL:HG11	23:CW:50:LEU:HA	1.91	0.50
37:DK:56:ARG:O	37:DK:59:ASP:HB2	2.10	0.50
46:p0:38:MET:HA	46:p0:41:VAL:CG1	2.39	0.50
46:p0:93:LEU:HD12	46:p0:94:THR:H	1.76	0.50
45:sM:72:ARG:HD2	66:c8:145:ARG:HB2	1.93	0.50
47:A:830:U:O2'	47:A:831:U:H6	1.93	0.50
47:A:892:A:H2'	47:A:893:U:H6	1.76	0.50
47:A:1120:U:H2'	47:A:1121:C:C6	2.47	0.50
47:A:1142:A:H2'	47:A:1143:A:C8	2.46	0.50
47:A:1264:G:H2'	47:A:1265:G:O4'	2.10	0.50
47:A:1498:G:C2'	47:A:1499:G:H5'	2.41	0.50
47:A:1583:A:N1	47:A:1611:A:H5''	2.26	0.50
49:C:27:LYS:CD	49:C:49:ASN:HA	2.41	0.50
52:F:159:THR:OG1	52:F:227:VAL:HG23	2.11	0.50
56:J:193:LEU:HD12	56:J:194:ARG:N	2.27	0.50
80:h:114:ASP:OD2	80:h:156:VAL:HG12	2.11	0.50
80:h:220:ILE:HG12	80:h:243:LEU:HD21	1.94	0.50
47:sR:17:C:H2'	47:sR:18:C:C6	2.45	0.50
47:sR:602:U:H2'	47:sR:603:U:C6	2.46	0.50
47:sR:890:C:OP2	81:sR:2004:OHX:N1	2.44	0.50
47:sR:1200:G:H4'	47:sR:1201:G:C5'	2.41	0.50
47:sR:1230:A:H8	47:sR:1258:U:C6	2.29	0.50
80:Rb:255:ALA:HB2	80:Rb:292:LEU:HD12	1.93	0.50
48:s0:9:LEU:HD23	48:s0:54:TRP:CD2	2.47	0.50
48:s0:62:ARG:O	48:s0:62:ARG:HG3	2.12	0.50
48:s0:183:ARG:NH1	48:s0:191:ARG:HG3	2.26	0.50
55:s7:10:SER:CB	55:s7:44:LYS:HA	2.39	0.50
59:c1:21:ASN:OD1	59:c1:21:ASN:N	2.44	0.50
62:c4:82:LYS:HB3	62:c4:118:VAL:HG21	1.93	0.50
65:c7:36:ASP:OD1	65:c7:36:ASP:N	2.43	0.50
1:1:239:G:O2'	1:1:240:U:H5'	2.12	0.50
1:1:2655:U:H4'	1:1:2656:A:O4'	2.12	0.50
3:4:141:C:OP1	16:v:109:ARG:NH1	2.44	0.50
5:k:293:ASN:HB3	5:k:305:ILE:HD11	1.92	0.50
7:m:287:ALA:HA	7:m:290:ILE:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:56:PRO:HG3	14:t:74:GLY:O	2.10	0.50
15:u:120:VAL:HG12	17:w:197:LEU:CD1	2.41	0.50
16:v:122:ASN:OD1	16:v:123:GLN:N	2.44	0.50
22:2:39:ILE:CD1	22:2:102:ARG:HD2	2.41	0.50
26:8:86:VAL:HG23	26:8:120:LYS:HB3	1.94	0.50
29:AB:95:SER:HA	29:AB:122:PRO:HG2	1.93	0.50
1:AR:287:G:OP1	16:CP:179:LYS:HD3	2.11	0.50
1:AR:358:G:N2	1:AR:361:A:OP2	2.44	0.50
1:AR:388:G:N2	18:CR:101:ASN:HD21	2.01	0.50
1:AR:495:G:H2'	1:AR:496:C:O4'	2.11	0.50
1:AR:1046:A:H2'	1:AR:1049:C:C5	2.46	0.50
1:AR:1618:G:H4'	3:AT:129:C:C1'	2.42	0.50
1:AR:1722:U:OP1	20:CT:100:ARG:NH1	2.44	0.50
1:AR:2424:A:N1	4:CD:230:VAL:HG21	2.27	0.50
1:AR:3153:U:H3'	1:AR:3154:C:C6	2.46	0.50
1:AR:3204:C:H2'	1:AR:3205:G:C8	2.47	0.50
13:CM:84:LEU:HD21	13:CM:163:PHE:HE1	1.77	0.50
29:DC:63:LYS:HE2	29:DC:65:GLN:HE22	1.76	0.50
47:A:488:G:OP1	47:A:488:G:H4'	2.11	0.50
47:A:545:A:H4'	47:A:546:U:OP1	2.11	0.50
47:A:953:G:H2'	47:A:954:G:C8	2.47	0.50
47:A:1238:A:H2'	47:A:1239:U:O4'	2.11	0.50
47:A:1389:C:O2'	65:S:52:GLY:HA3	2.11	0.50
47:A:1526:A:H3'	47:A:1527:C:H6	1.77	0.50
48:B:42:PRO:HD3	65:S:105:GLN:HE21	1.75	0.50
50:D:165:VAL:HG21	50:D:210:THR:CA	2.39	0.50
53:G:73:THR:CG2	64:R:114:ARG:HD2	2.42	0.50
54:H:14:LYS:CB	54:H:124:LEU:HD11	2.37	0.50
61:O:30:SER:HA	61:O:66:ILE:HG22	1.91	0.50
62:P:111:ARG:HH21	74:b:57:SER:C	2.19	0.50
64:R:6:SER:OG	64:R:23:LYS:HA	2.11	0.50
64:R:97:VAL:HG12	64:R:98:ASP:H	1.77	0.50
68:V:88:LYS:O	68:V:89:ARG:NH2	2.44	0.50
74:b:10:ARG:CZ	74:b:36:ILE:HG23	2.40	0.50
80:h:34:LEU:HD22	80:h:73:LEU:HD13	1.92	0.50
47:sR:138:A:N6	47:sR:266:A:H61	2.09	0.50
47:sR:647:G:H22	47:sR:687:G:N2	2.08	0.50
47:sR:810:G:H21	55:s7:109:VAL:HA	1.77	0.50
80:Rb:218:GLY:HA3	80:Rb:238:ASP:O	2.11	0.50
80:Rb:224:ASN:HD21	80:Rb:227:ALA:HB3	1.77	0.50
49:s1:46:THR:HG22	49:s1:47:LEU:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s2:83:ILE:O	50:s2:83:ILE:HD12	2.11	0.50
51:s3:88:ALA:O	51:s3:89:GLU:HG2	2.11	0.50
52:s4:65:LEU:HD22	52:s4:78:THR:HA	1.93	0.50
53:s5:24:VAL:HG23	53:s5:29:ILE:HD13	1.94	0.50
66:c8:11:PHE:CE1	66:c8:59:GLY:HA3	2.45	0.50
71:d3:59:ILE:HG21	71:d3:118:PRO:HD2	1.93	0.50
74:d6:46:GLU:O	74:d6:46:GLU:HG3	2.10	0.50
1:1:518:G:O6	81:1:4137:OHX:N2	2.44	0.50
1:1:968:G:H2'	1:1:969:C:C6	2.46	0.50
1:1:1306:G:O2'	1:1:1307:G:H5''	2.11	0.50
1:1:1716:U:O2'	1:1:1717:U:H4'	2.11	0.50
1:1:1730:G:N7	31:AD:28:LYS:HB2	2.27	0.50
1:1:3000:A:H2'	1:1:3001:C:C6	2.47	0.50
1:1:3198:U:O4	11:q:26:LYS:HB2	2.11	0.50
1:1:3252:G:H2'	1:1:3253:G:C8	2.46	0.50
1:1:3282:U:H2'	1:1:3283:U:O4'	2.11	0.50
81:1:4068:OHX:N5	3:4:19:C:OP2	2.44	0.50
4:j:70:ARG:NH1	4:j:71:LEU:O	2.44	0.50
7:m:282:ARG:O	7:m:286:VAL:HG13	2.12	0.50
8:n:44:ALA:HB2	34:AG:103:TYR:CE2	2.47	0.50
9:o:89:ILE:HG23	9:o:219:LYS:HE3	1.94	0.50
17:w:46:GLU:HG3	17:w:48:PHE:H	1.75	0.50
19:y:135:GLN:CD	19:y:135:GLN:H	2.18	0.50
28:AA:81:LEU:HD11	35:AH:90:ILE:HG23	1.93	0.50
1:AR:209:A:OP1	6:CF:161:LYS:NZ	2.43	0.50
1:AR:437:G:N1	1:AR:621:A:C6	2.71	0.50
1:AR:728:G:H2'	1:AR:729:C:H6	1.76	0.50
1:AR:955:U:H2'	1:AR:956:U:C6	2.47	0.50
1:AR:1098:A:O2'	22:CV:130:ARG:O	2.26	0.50
1:AR:1616:U:H2'	1:AR:1617:G:C8	2.47	0.50
1:AR:2896:A:P	41:DO:102:ARG:HH21	2.34	0.50
1:AR:3122:A:N1	11:CK:70:THR:HG21	2.26	0.50
1:AR:3279:A:H2'	1:AR:3280:U:H5'	1.93	0.50
11:CK:86:TYR:CE1	11:CK:151:VAL:HG22	2.47	0.50
11:CK:111:PHE:CD1	11:CK:127:PRO:HA	2.46	0.50
28:DB:84:ARG:CZ	28:DB:85:TYR:HE1	2.25	0.50
37:DK:58:ILE:HD12	37:DK:59:ASP:H	1.76	0.50
46:p0:45:LEU:HG	46:p0:49:ALA:HB3	1.94	0.50
47:A:5:U:H2'	47:A:6:G:C8	2.47	0.50
47:A:327:U:H2'	47:A:328:A:H8	1.77	0.50
47:A:890:C:H2'	47:A:891:A:H8	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1320:U:H3'	48:B:101:ARG:HH22	1.77	0.50
48:B:49:ASN:ND2	48:B:52:LYS:HE3	2.26	0.50
57:K:153:GLU:C	57:K:156:ILE:HD11	2.36	0.50
59:M:29:LYS:NZ	59:M:33:ARG:H	2.10	0.50
80:h:288:HIS:ND1	80:h:288:HIS:O	2.45	0.50
47:sR:438:A:OP1	81:sR:1920:OHX:N6	2.44	0.50
47:sR:1241:G:OP2	63:c5:77:ARG:NH2	2.43	0.50
47:sR:1248:C:C2	47:sR:1249:U:C5	3.00	0.50
47:sR:1345:A:H5'	68:d0:53:LYS:HG3	1.93	0.50
47:sR:1539:G:H5'	47:sR:1539:G:C8	2.46	0.50
48:s0:64:ILE:HD12	48:s0:122:ILE:HD11	1.93	0.50
51:s3:17:PHE:CD1	51:s3:77:PHE:CE2	3.00	0.50
51:s3:76:ARG:O	51:s3:76:ARG:HD2	2.11	0.50
52:s4:12:LEU:HD11	57:s9:4:ALA:CB	2.41	0.50
53:s5:52:GLU:HA	53:s5:65:ARG:HH22	1.76	0.50
57:s9:64:GLU:O	57:s9:65:LYS:HB3	2.12	0.50
57:s9:118:LEU:CD2	57:s9:158:PHE:HE1	2.21	0.50
59:c1:8:GLN:NE2	59:c1:14:GLN:H	2.10	0.50
62:c4:106:ALA:HB2	74:d6:53:LEU:HD13	1.93	0.50
70:d2:25:VAL:HG13	70:d2:65:LEU:HD11	1.93	0.50
1:1:271:C:O2	37:AJ:82:ARG:NH2	2.44	0.50
1:1:1095:U:H4'	1:1:1096:U:H5''	1.92	0.50
1:1:1715:A:H4'	1:1:1716:U:OP1	2.11	0.50
7:m:235:SER:O	7:m:236:LEU:HB2	2.11	0.50
8:n:40:LEU:HD13	8:n:84:VAL:HG21	1.93	0.50
11:q:106:LYS:O	11:q:106:LYS:HD2	2.12	0.50
17:w:157:GLU:OE1	17:w:160:ARG:NH1	2.45	0.50
20:z:23:TRP:HB3	20:z:51:VAL:HG22	1.93	0.50
24:6:85:TRP:O	24:6:92:PHE:HA	2.11	0.50
1:AR:80:G:H2'	1:AR:81:C:C6	2.47	0.50
1:AR:528:U:H2'	1:AR:529:A:H8	1.73	0.50
1:AR:2201:G:H2'	1:AR:2202:C:H6	1.75	0.50
1:AR:2854:U:OP2	12:CL:3:ARG:NH1	2.44	0.50
1:AR:3301:U:O4	81:AR:3427:OHX:N3	2.44	0.50
81:AR:3454:OHX:N1	10:CJ:54:GLU:OE1	2.45	0.50
2:AS:1:G:O6	7:CG:262:LYS:HE3	2.11	0.50
3:AT:84:C:H5''	3:AT:85:G:C4	2.47	0.50
4:CD:39:GLY:HA3	10:CJ:36:ILE:HD12	1.94	0.50
4:CD:90:ALA:CB	4:CD:101:VAL:HG22	2.42	0.50
5:CE:105:VAL:HG21	5:CE:148:LEU:CD2	2.40	0.50
10:CJ:106:LYS:O	10:CJ:109:LEU:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:86:TYR:CD2	11:CK:151:VAL:HG13	2.45	0.50
14:CN:60:ALA:HB3	14:CN:65:TYR:O	2.12	0.50
23:CW:88:GLN:N	23:CW:88:GLN:OE1	2.45	0.50
30:DD:23:LYS:CD	30:DD:24:PRO:HD2	2.35	0.50
32:DF:72:ARG:NH1	32:DF:105:GLN:O	2.31	0.50
47:A:151:G:H2'	47:A:152:U:C6	2.46	0.50
47:A:627:C:H2'	47:A:628:G:O4'	2.11	0.50
47:A:735:C:H2'	47:A:735:C:OP2	2.11	0.50
47:A:887:A:H2'	47:A:888:U:C6	2.47	0.50
47:A:890:C:H2'	47:A:891:A:C8	2.47	0.50
47:A:935:U:O4	74:b:15:ARG:NH1	2.44	0.50
50:D:49:LYS:HB3	50:D:243:TYR:CD2	2.46	0.50
50:D:83:ILE:HD12	50:D:83:ILE:O	2.12	0.50
50:D:142:GLY:N	50:D:153:SER:O	2.45	0.50
53:G:48:PHE:CD2	53:G:67:PRO:HA	2.47	0.50
53:G:151:GLY:H	76:d:67:ARG:HG3	1.76	0.50
59:M:25:VAL:HG22	59:M:26:LYS:O	2.12	0.50
66:T:30:TYR:O	66:T:33:THR:HG22	2.12	0.50
71:Y:93:LEU:O	71:Y:96:VAL:HG22	2.11	0.50
72:Z:104:SER:HB3	72:Z:107:GLN:NE2	2.26	0.50
47:sR:1164:G:H2'	47:sR:1165:G:C8	2.46	0.50
48:s0:23:HIS:HA	48:s0:48:ILE:HG22	1.93	0.50
48:s0:30:GLN:OE1	48:s0:32:HIS:HB2	2.12	0.50
52:s4:126:VAL:HG11	52:s4:155:LYS:O	2.12	0.50
56:s8:70:GLU:O	56:s8:72:ILE:HG23	2.12	0.50
63:c5:28:MET:HG2	63:c5:29:SER:O	2.12	0.50
70:d2:24:GLN:NE2	75:d7:5:GLN:H	2.09	0.50
1:1:255:A:H2'	1:1:256:G:H8	1.76	0.50
1:1:541:U:H2'	1:1:542:G:C8	2.46	0.50
1:1:627:U:H4'	1:1:1399:A:O2'	2.12	0.50
1:1:839:C:O2'	1:1:1724:U:OP1	2.28	0.50
1:1:1575:A:C6	1:1:1576:G:N7	2.79	0.50
1:1:1580:A:H5''	1:1:2522:G:C2	2.46	0.50
1:1:1717:U:H2'	1:1:1718:G:H8	1.76	0.50
1:1:2338:C:OP1	5:k:236:LYS:HE2	2.12	0.50
3:4:150:G:N7	81:4:208:OHX:N1	2.60	0.50
19:y:175:ALA:HB3	29:AB:51:GLY:O	2.12	0.50
28:AA:22:LYS:NZ	28:AA:132:SER:O	2.29	0.50
36:AI:43:LYS:HD3	36:AI:43:LYS:H	1.76	0.50
36:AI:102:GLU:O	36:AI:106:LYS:HG3	2.12	0.50
43:AP:14:GLY:O	43:AP:15:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:192:C:H2'	1:AR:193:C:H6	1.75	0.50
1:AR:356:C:OP2	81:AR:3675:OHX:N3	2.45	0.50
1:AR:1029:G:H2'	1:AR:1030:A:C8	2.40	0.50
1:AR:1390:A:N3	1:AR:1390:A:H5'	2.27	0.50
1:AR:2356:A:H61	1:AR:2983:C:H5	1.59	0.50
1:AR:2667:A:H61	1:AR:2687:G:H1'	1.75	0.50
1:AR:2945:G:O2'	1:AR:2948:C:OP2	2.16	0.50
4:CD:247:ARG:HG3	4:CD:249:SER:H	1.77	0.50
6:CF:8:VAL:HG22	6:CF:20:LEU:HD12	1.93	0.50
11:CK:113:GLU:OE2	11:CK:115:ARG:NH2	2.44	0.50
19:CS:158:HIS:H	19:CS:186:VAL:CG1	2.24	0.50
29:DC:13:GLY:O	33:DG:36:LYS:HD2	2.11	0.50
47:A:817:A:C1'	55:I:110:GLN:NE2	2.73	0.50
47:A:953:G:H2'	47:A:954:G:H8	1.77	0.50
47:A:1429:G:H21	68:V:72:ASN:ND2	2.09	0.50
47:A:1586:A:OP1	64:R:135:ARG:N	2.39	0.50
49:C:26:ARG:CZ	49:C:26:ARG:HB3	2.42	0.50
49:C:103:MET:HG2	49:C:104:ASP:H	1.75	0.50
49:C:131:ASP:OD2	49:C:181:LEU:N	2.44	0.50
49:C:135:LEU:HG	49:C:217:LEU:HB2	1.92	0.50
53:G:89:ILE:HD12	53:G:90:ILE:H	1.77	0.50
60:N:58:LEU:CD1	60:N:124:LYS:HA	2.41	0.50
80:h:262:VAL:O	80:h:270:LEU:HD12	2.11	0.50
80:h:300:THR:HG22	80:h:314:GLN:HB3	1.94	0.50
47:sR:65:A:H2	47:sR:84:A:H62	1.59	0.50
47:sR:188:A:P	56:s8:138:ASN:HD21	2.35	0.50
47:sR:525:A:H2'	47:sR:526:A:C8	2.46	0.50
47:sR:741:C:O2'	55:s7:107:ARG:NH1	2.42	0.50
47:sR:755:A:C4	47:sR:756:A:C8	3.00	0.50
47:sR:776:G:O6	72:d4:11:LYS:HE2	2.12	0.50
80:Rb:284:ALA:HB2	65:c7:63:LYS:HE3	1.94	0.50
48:s0:154:GLU:HA	69:d1:63:GLY:HA2	1.94	0.50
51:s3:223:LYS:NZ	51:s3:225:TYR:HE1	2.05	0.50
53:s5:21:THR:HG22	53:s5:21:THR:O	2.12	0.50
61:c3:98:VAL:HG11	61:c3:115:LEU:HB2	1.93	0.50
67:c9:27:LYS:O	67:c9:111:ILE:HD11	2.11	0.50
1:1:290:G:H2'	1:1:291:C:C6	2.47	0.50
1:1:871:U:H2'	1:1:872:U:C6	2.46	0.50
1:1:2225:U:H2'	1:1:2226:U:C6	2.46	0.50
1:1:2340:U:OP1	5:k:236:LYS:HE3	2.10	0.50
1:1:2413:A:H2'	1:1:2414:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3110:C:O3'	11:q:155:SER:HB2	2.10	0.50
13:s:92:ARG:HG2	13:s:172:LEU:HD13	1.92	0.50
1:AR:361:A:H5'	38:DL:35:SER:OG	2.11	0.50
1:AR:1331:U:OP1	81:AR:3402:OHX:N1	2.45	0.50
1:AR:2557:A:C2	10:CJ:38:GLN:HA	2.47	0.50
1:AR:3366:G:OP1	25:CY:61:LYS:NZ	2.39	0.50
3:AT:9:A:H2'	3:AT:10:A:C8	2.47	0.50
7:CG:196:ARG:HA	7:CG:199:ILE:HD13	1.93	0.50
23:CW:99:LYS:HD2	23:CW:100:THR:HG23	1.93	0.50
47:A:434:G:OP1	71:Y:78:LYS:HA	2.11	0.50
47:A:1445:G:C8	79:g:91:ILE:HD12	2.47	0.50
47:A:1533:C:H5'	66:T:27:LYS:NZ	2.26	0.50
48:B:89:PHE:N	48:B:202:TYR:HE1	2.10	0.50
49:C:62:LYS:HD3	49:C:89:ASP:O	2.12	0.50
51:E:55:THR:OG1	51:E:90:ARG:HG2	2.12	0.50
51:E:208:ILE:HD12	51:E:209:ILE:N	2.27	0.50
51:E:215:GLU:OE1	51:E:218:LEU:HD11	2.12	0.50
57:K:24:LEU:HD23	57:K:39:LYS:NZ	2.26	0.50
58:L:40:LEU:H	58:L:40:LEU:CD1	2.25	0.50
58:L:59:PHE:CZ	58:L:62:GLN:HA	2.47	0.50
64:R:94:GLN:NE2	64:R:102:LYS:HE2	2.27	0.50
67:U:129:GLN:HA	67:U:132:LEU:HD21	1.93	0.50
68:V:52:LYS:HG2	68:V:93:LEU:HD21	1.93	0.50
69:W:1:MET:HE3	69:W:10:GLU:O	2.12	0.50
72:Z:78:SER:HB3	72:Z:81:GLU:OE2	2.12	0.50
80:h:35:SER:HB3	80:h:43:ILE:O	2.11	0.50
47:sR:829:A:H1'	47:sR:830:U:C5	2.47	0.50
47:sR:885:G:OP1	49:s1:216:LYS:NZ	2.35	0.50
47:sR:1255:G:H4'	47:sR:1256:A:OP1	2.11	0.50
80:Rb:74:THR:HB	80:Rb:115:ILE:HD12	1.94	0.50
51:s3:17:PHE:HD1	51:s3:77:PHE:HE2	1.60	0.50
51:s3:132:LYS:HE2	51:s3:132:LYS:HA	1.93	0.50
53:s5:43:PHE:CG	53:s5:44:ASN:N	2.79	0.50
53:s5:222:LYS:HA	53:s5:225:ARG:HH12	1.77	0.50
56:s8:87:ASN:ND2	56:s8:89:GLU:H	2.10	0.50
58:c0:42:VAL:HA	58:c0:45:ALA:HB3	1.92	0.50
1:1:266:A:P	16:v:5:LYS:HZ1	2.35	0.50
1:1:2103:U:H2'	1:1:2104:A:C8	2.47	0.50
1:1:2767:U:O2'	43:AP:30:ALA:O	2.28	0.50
1:1:2777:G:H5'	1:1:2779:A:OP2	2.11	0.50
4:j:134:VAL:HG12	4:j:151:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:296:GLN:HA	6:l:299:ILE:HG13	1.93	0.50
7:m:155:THR:N	7:m:179:ARG:HH11	2.10	0.50
7:m:209:GLU:HG3	7:m:233:ALA:HB3	1.94	0.50
20:z:99:LEU:HD11	20:z:103:ARG:CZ	2.41	0.50
22:2:39:ILE:HD11	22:2:102:ARG:HD2	1.93	0.50
33:AF:97:ALA:HB3	33:AF:100:ILE:HG12	1.93	0.50
45:i:74:LYS:HD3	63:Q:130:ARG:NH1	2.27	0.50
1:AR:188:U:C4	1:AR:223:U:H4'	2.47	0.50
1:AR:284:A:H4'	1:AR:285:A:N3	2.27	0.50
1:AR:306:A:C2	1:AR:2784:G:H1'	2.47	0.50
1:AR:636:C:O2	1:AR:2377:G:O2'	2.22	0.50
1:AR:1226:G:H2'	1:AR:1227:C:C6	2.46	0.50
1:AR:1767:C:H2'	1:AR:1768:U:O4'	2.12	0.50
1:AR:2268:U:H3'	1:AR:2269:U:C5'	2.41	0.50
3:AT:69:U:H2'	3:AT:70:G:O4'	2.11	0.50
5:CE:221:THR:HG22	5:CE:273:HIS:H	1.76	0.50
6:CF:74:ILE:HD13	6:CF:88:GLY:HA2	1.93	0.50
12:CL:72:ALA:HB2	12:CL:155:ALA:HB2	1.94	0.50
16:CP:114:ARG:HG2	16:CP:137:PRO:HG3	1.93	0.50
20:CT:171:ASP:HA	20:CT:174:ALA:HB3	1.94	0.50
28:DB:9:LYS:O	28:DB:25:ILE:HD12	2.11	0.50
36:DJ:48:ARG:HA	36:DJ:51:ILE:HD13	1.94	0.50
37:DK:71:LYS:HD3	37:DK:71:LYS:N	2.25	0.50
45:sM:72:ARG:HH11	45:sM:72:ARG:HG2	1.76	0.50
47:A:498:G:N7	47:A:499:U:N3	2.59	0.50
47:A:693:U:H5'	47:A:694:U:H5'	1.94	0.50
47:A:848:C:H2'	47:A:849:C:C6	2.46	0.50
47:A:887:A:H2'	47:A:888:U:H6	1.77	0.50
47:A:1039:A:H5''	69:W:62:ARG:NH1	2.26	0.50
47:A:1595:U:N3	47:A:1600:A:H2	2.10	0.50
49:C:140:ILE:HG21	49:C:213:ARG:HG3	1.94	0.50
53:G:161:ASP:O	76:d:44:VAL:HA	2.11	0.50
57:K:77:ILE:HD12	57:K:78:ARG:H	1.77	0.50
57:K:83:VAL:HG21	57:K:147:MET:HG3	1.94	0.50
57:K:180:LYS:HA	57:K:180:LYS:CE	2.41	0.50
60:N:51:ALA:HB1	60:N:57:ALA:HB2	1.93	0.50
63:Q:46:ALA:O	63:Q:49:MET:HE2	2.11	0.50
64:R:23:LYS:HG2	64:R:24:ALA:N	2.27	0.50
66:T:7:GLU:H	73:a:42:LEU:HD22	1.77	0.50
66:T:47:CYS:HB3	66:T:54:LEU:CD2	2.42	0.50
67:U:105:LEU:HD21	67:U:122:ARG:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:W:74:GLN:HG2	69:W:79:LEU:O	2.12	0.50
71:Y:90:ASP:OD1	78:f:12:GLY:HA2	2.11	0.50
80:h:20:VAL:HG21	80:h:310:ILE:CG2	2.42	0.50
80:h:74:THR:OG1	80:h:76:ASP:OD1	2.18	0.50
80:h:307:ASP:OD2	80:h:311:ARG:NH2	2.43	0.50
47:sR:621:A:N3	47:sR:1107:G:H1'	2.27	0.50
47:sR:1564:U:H2'	47:sR:1565:C:H6	1.76	0.50
47:sR:1695:G:H2'	47:sR:1696:G:O4'	2.11	0.50
47:sR:1738:U:H2'	47:sR:1739:C:C6	2.47	0.50
57:s9:63:ASP:HB3	57:s9:66:ASP:HB2	1.94	0.50
69:d1:22:ARG:NH2	70:d2:69:LEU:O	2.45	0.50
73:d5:65:LEU:HB3	73:d5:71:ILE:HD13	1.93	0.50
1:1:546:C:H5'	1:1:547:G:O4'	2.11	0.50
1:1:1001:G:O2'	1:1:1041:U:OP2	2.30	0.50
1:1:1352:A:H1'	1:1:1353:U:C6	2.47	0.50
1:1:1611:G:H2'	1:1:1612:A:C8	2.46	0.50
1:1:1686:U:O2	1:1:1688:U:H1'	2.12	0.50
1:1:1818:U:H2'	1:1:1819:U:O4'	2.11	0.50
1:1:1856:C:C2	1:1:1857:C:C5	2.99	0.50
1:1:1926:C:H3'	44:AQ:7:LYS:HG3	1.93	0.50
1:1:3301:U:O4	81:1:3423:OHX:N5	2.45	0.50
4:j:180:LEU:HD22	44:AQ:26:VAL:HG21	1.93	0.50
7:m:60:ILE:HB	7:m:80:SER:CB	2.41	0.50
8:n:51:ARG:NH1	15:u:114:ASP:OD2	2.45	0.50
9:o:25:GLN:CD	9:o:29:GLU:HB2	2.37	0.50
14:t:157:ARG:HG2	14:t:158:ALA:N	2.24	0.50
24:6:108:GLU:HB3	24:6:128:ARG:CZ	2.42	0.50
26:8:134:ASP:HA	26:8:137:ASN:OD1	2.12	0.50
33:AF:19:ARG:HD2	33:AF:33:ARG:HB2	1.94	0.50
38:AK:17:THR:CG2	38:AK:18:LEU:H	2.24	0.50
45:i:96:ARG:H	47:A:1274:C:H5	1.59	0.50
1:AR:398:A:O2'	1:AR:1416:C:OP1	2.27	0.50
1:AR:591:G:N2	1:AR:612:U:OP1	2.39	0.50
1:AR:2148:U:H2'	1:AR:2149:A:C8	2.46	0.50
1:AR:2546:C:C2	1:AR:2547:A:C8	3.00	0.50
1:AR:3110:C:H2'	1:AR:3111:U:C6	2.47	0.50
1:AR:3243:A:OP1	17:CQ:159:LYS:NZ	2.45	0.50
3:AT:4:C:H2'	3:AT:5:U:H6	1.77	0.50
10:CJ:245:LYS:HZ2	10:CJ:245:LYS:C	2.19	0.50
12:CL:76:MET:O	12:CL:80:SER:OG	2.21	0.50
16:CP:116:LEU:HA	16:CP:159:ARG:NH1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CZ:46:TYR:HB3	36:DJ:75:TYR:O	2.11	0.50
37:DK:61:ILE:HD13	37:DK:69:ALA:CB	2.42	0.50
38:DL:64:MET:O	38:DL:68:LYS:HB3	2.12	0.50
47:A:188:A:N7	47:A:197:A:H2	2.10	0.50
47:A:253:A:H2'	47:A:254:A:H8	1.76	0.50
47:A:1017:U:H2'	47:A:1018:U:C6	2.47	0.50
47:A:1238:A:OP2	81:A:2112:OHX:N3	2.44	0.50
47:A:1292:G:H2'	47:A:1293:U:C6	2.46	0.50
47:A:1483:A:H2	47:A:1607:G:H1'	1.77	0.50
47:A:1518:C:OP2	81:A:1960:OHX:N2	2.45	0.50
54:H:38:GLY:O	54:H:41:VAL:HG22	2.11	0.50
55:I:140:VAL:HG22	55:I:150:GLN:HG2	1.94	0.50
60:N:50:LYS:HD3	60:N:50:LYS:O	2.11	0.50
64:R:14:LYS:CB	64:R:76:SER:HB3	2.42	0.50
65:S:28:PHE:HE1	65:S:51:ALA:HB3	1.76	0.50
80:h:178:VAL:O	80:h:192:PHE:HB2	2.12	0.50
47:sR:590:C:H2'	47:sR:591:A:H8	1.77	0.50
47:sR:755:A:O2'	47:sR:756:A:H5''	2.12	0.50
47:sR:1433:G:N2	77:d9:45:GLU:OE1	2.21	0.50
47:sR:1438:G:H2'	47:sR:1439:C:C6	2.46	0.50
47:sR:1528:U:H2'	47:sR:1529:C:C6	2.47	0.50
48:s0:84:ARG:NH2	48:s0:201:LEU:HD12	2.24	0.50
53:s5:128:ASN:OD1	53:s5:129:PRO:HD2	2.11	0.50
62:c4:85:ALA:H	62:c4:119:THR:CG2	2.20	0.50
64:c6:103:ASN:OD1	64:c6:107:LYS:HG3	2.12	0.50
67:c9:73:VAL:HA	67:c9:76:LEU:HD12	1.93	0.50
70:d2:71:LYS:HB3	70:d2:130:TYR:CE1	2.47	0.50
1:1:1602:A:H5''	20:z:38:ARG:HG3	1.93	0.49
1:1:1743:G:H2'	1:1:1744:G:C8	2.46	0.49
1:1:1949:G:OP2	20:z:135:LYS:NZ	2.35	0.49
1:1:2389:C:H2'	1:1:2390:A:H8	1.77	0.49
1:1:2534:G:O6	81:1:3499:OHX:N4	2.44	0.49
1:1:2572:C:H5''	28:AA:60:LYS:HZ3	1.75	0.49
3:4:15:G:OP2	81:4:204:OHX:N4	2.45	0.49
5:k:10:ARG:NH2	5:k:14:LEU:HD21	2.27	0.49
5:k:215:ILE:HD13	5:k:282:ILE:HD11	1.93	0.49
6:l:9:HIS:NE2	6:l:15:ALA:HB2	2.27	0.49
6:l:168:ALA:O	6:l:172:VAL:HG23	2.11	0.49
7:m:243:ALA:O	7:m:247:ILE:HD12	2.11	0.49
17:w:7:VAL:HB	17:w:33:ILE:HD13	1.93	0.49
23:5:19:VAL:HG22	23:5:62:VAL:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AA:26:VAL:HA	28:AA:89:VAL:HG21	1.94	0.49
35:AH:98:GLN:O	35:AH:102:LYS:HD2	2.12	0.49
36:AI:43:LYS:HD3	36:AI:43:LYS:N	2.27	0.49
1:AR:92:G:H5''	1:AR:94:G:N7	2.26	0.49
1:AR:892:U:OP2	81:AR:3418:OHX:N6	2.45	0.49
1:AR:1034:U:H2'	1:AR:1035:G:C8	2.47	0.49
1:AR:3065:G:O6	81:AR:3603:OHX:N6	2.45	0.49
26:CZ:109:LYS:HG3	26:CZ:125:ARG:HB3	1.94	0.49
29:DC:74:ASN:HB3	29:DC:76:ASP:H	1.77	0.49
37:DK:89:GLU:HG2	37:DK:89:GLU:O	2.12	0.49
47:A:1279:C:P	51:E:185:LYS:HZ1	2.34	0.49
47:A:1767:G:OP2	47:A:1770:U:O2'	2.23	0.49
48:B:173:ILE:HD12	48:B:173:ILE:H	1.76	0.49
52:F:121:TYR:HA	52:F:164:LEU:HD13	1.93	0.49
53:G:100:ASN:O	53:G:102:ARG:N	2.43	0.49
53:G:208:SER:HB3	53:G:211:ILE:CD1	2.42	0.49
47:sR:1078:C:H2'	47:sR:1079:U:H6	1.77	0.49
47:sR:1098:U:OP2	50:s2:168:ARG:NH2	2.45	0.49
80:Rb:147:HIS:HA	80:Rb:179:LYS:CE	2.42	0.49
48:s0:73:VAL:CG2	48:s0:95:ALA:HA	2.42	0.49
53:s5:68:ILE:HD13	53:s5:88:PRO:HG2	1.92	0.49
56:s8:48:THR:HG22	56:s8:52:ASN:C	2.37	0.49
57:s9:53:ARG:O	57:s9:57:ARG:HG3	2.12	0.49
68:d0:51:VAL:CG1	68:d0:52:LYS:N	2.75	0.49
70:d2:16:ASN:O	70:d2:20:THR:HG22	2.12	0.49
1:1:821:U:H2'	1:1:822:G:C8	2.47	0.49
1:1:1703:U:N3	1:1:1740:U:O2	2.45	0.49
4:j:95:SER:OG	4:j:97:ASN:OD1	2.29	0.49
4:j:230:VAL:O	4:j:233:GLN:HB2	2.12	0.49
10:p:112:GLU:O	10:p:116:VAL:HG12	2.13	0.49
11:q:161:LEU:O	11:q:164:ILE:HG22	2.12	0.49
17:w:12:LYS:HA	17:w:40:GLU:O	2.11	0.49
27:9:58:VAL:HG12	27:9:104:LEU:HD23	1.94	0.49
37:AJ:35:ASN:HA	37:AJ:38:LYS:HB2	1.94	0.49
1:AR:29:C:H4'	1:AR:62:A:H4'	1.94	0.49
1:AR:794:U:C2	1:AR:795:G:C8	3.00	0.49
1:AR:1720:U:OP2	20:CT:110:ARG:NH2	2.46	0.49
1:AR:2279:A:O5'	1:AR:2280:A:H5''	2.12	0.49
3:AT:53:A:H2'	3:AT:54:A:C8	2.46	0.49
7:CG:289:LYS:O	7:CG:292:ALA:HB3	2.12	0.49
9:CI:153:PHE:CD2	9:CI:160:ARG:HG2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:122:ILE:HG22	19:CS:123:THR:O	2.11	0.49
39:DM:5:ILE:HD12	39:DM:6:THR:H	1.76	0.49
41:DO:94:SER:OG	41:DO:104:PRO:O	2.30	0.49
47:A:211:U:H5''	59:M:20:PHE:CD2	2.47	0.49
47:A:740:A:C2'	47:A:741:C:H5''	2.38	0.49
47:A:866:G:H5''	61:O:2:GLY:HA2	1.93	0.49
47:A:1142:A:H5''	74:b:2:PRO:HG3	1.93	0.49
47:A:1439:C:H2'	47:A:1440:C:H6	1.76	0.49
47:A:1519:U:H2'	47:A:1520:U:H5	1.76	0.49
47:A:1726:G:O6	81:A:2143:OHX:N6	2.45	0.49
47:A:1785:U:H2'	47:A:1786:G:H8	1.75	0.49
48:B:119:ARG:NH1	50:D:240:LEU:O	2.45	0.49
50:D:238:SER:HB2	50:D:239:PRO:HD2	1.93	0.49
56:J:182:TYR:OH	56:J:188:GLU:OE2	2.28	0.49
65:S:78:ARG:H	65:S:78:ARG:HH11	1.59	0.49
67:U:105:LEU:HD23	67:U:106:GLN:N	2.27	0.49
68:V:24:ILE:HD11	68:V:26:LEU:HD21	1.93	0.49
70:X:31:SER:H	70:X:34:ILE:HD13	1.78	0.49
80:h:155:ARG:HB2	80:h:170:ILE:HD11	1.94	0.49
47:sR:640:U:C4	55:s7:118:LEU:HD11	2.46	0.49
47:sR:781:U:H5''	47:sR:781:U:O2	2.12	0.49
47:sR:800:U:OP1	81:sR:2178:OHX:N6	2.44	0.49
47:sR:863:A:H4'	70:d2:57:ARG:HB3	1.94	0.49
47:sR:947:U:H2'	47:sR:948:G:H8	1.77	0.49
80:Rb:102:ARG:HD3	80:Rb:102:ARG:N	2.27	0.49
49:s1:185:THR:O	49:s1:188:LEU:N	2.43	0.49
51:s3:142:LEU:HD23	51:s3:148:LYS:HB3	1.93	0.49
62:c4:61:MET:HG3	62:c4:62:LEU:N	2.27	0.49
71:d3:86:PHE:HB2	71:d3:120:VAL:HG11	1.94	0.49
1:1:559:A:OP1	1:1:559:A:H4'	2.11	0.49
1:1:608:A:N6	8:n:22:ARG:HD3	2.27	0.49
1:1:781:G:N7	81:1:3460:OHX:N5	2.61	0.49
1:1:1093:A:OP1	22:2:116:ARG:NH2	2.41	0.49
1:1:1104:G:H8	1:1:1104:G:O5'	1.95	0.49
1:1:1488:G:H5''	1:1:1838:G:O6	2.10	0.49
1:1:2352:A:H2'	1:1:2353:G:H8	1.77	0.49
1:1:2504:U:H2'	1:1:2505:U:O4'	2.11	0.49
1:1:3016:A:OP2	81:1:3587:OHX:N2	2.46	0.49
11:q:8:GLN:HG3	11:q:68:LEU:HG	1.94	0.49
12:r:38:LYS:NZ	12:r:45:GLU:OE2	2.26	0.49
20:z:68:GLN:HG2	20:z:71:ARG:HH21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AA:58:GLY:H	28:AA:61:LYS:HE2	1.77	0.49
45:i:110:TRP:HA	51:E:115:ILE:HG21	1.95	0.49
1:AR:879:U:O2	1:AR:2357:A:H1'	2.11	0.49
1:AR:1232:C:HO2'	46:p0:36:GLN:CD	2.12	0.49
1:AR:2352:A:P	18:CR:82:ARG:HD3	2.52	0.49
1:AR:2667:A:N6	1:AR:2687:G:H1'	2.27	0.49
2:AS:28:C:OP2	7:CG:57:ASN:ND2	2.46	0.49
10:CJ:52:TRP:HB3	10:CJ:56:VAL:CG1	2.41	0.49
12:CL:36:LEU:HD12	12:CL:87:LEU:HB3	1.94	0.49
13:CM:153:LYS:HD2	13:CM:154:THR:H	1.76	0.49
14:CN:165:SER:O	14:CN:167:PHE:N	2.35	0.49
15:CO:55:ARG:NH1	21:CU:70:THR:O	2.45	0.49
18:CR:33:ALA:HB1	18:CR:117:ILE:HG12	1.93	0.49
28:DB:115:LYS:HG2	28:DB:119:GLU:OE2	2.12	0.49
35:DI:74:ARG:HD2	35:DI:85:VAL:HG21	1.93	0.49
35:DI:102:LYS:HA	35:DI:105:VAL:HG13	1.93	0.49
47:A:112:A:O2'	47:A:113:U:H5'	2.12	0.49
47:A:422:G:N7	81:A:2140:OHX:N5	2.60	0.49
47:A:505:A:H3'	47:A:506:A:H5''	1.93	0.49
47:A:1408:G:H2'	47:A:1409:G:O4'	2.12	0.49
48:B:63:ILE:HG22	69:W:35:ASN:O	2.13	0.49
48:B:179:ARG:O	48:B:183:ARG:HG3	2.11	0.49
50:D:65:GLU:HB3	50:D:68:ILE:HD13	1.93	0.49
50:D:212:LYS:O	50:D:216:VAL:HG23	2.11	0.49
51:E:73:VAL:HG11	51:E:86:LEU:HD11	1.93	0.49
52:F:123:LEU:HA	52:F:160:VAL:O	2.11	0.49
56:J:195:ARG:O	56:J:199:LYS:HB2	2.13	0.49
61:O:52:VAL:HG23	61:O:55:ARG:NH2	2.28	0.49
62:P:92:LYS:NZ	74:b:69:ASN:HD22	2.10	0.49
65:S:101:ASN:HA	65:S:120:SER:CB	2.42	0.49
66:T:88:ARG:HG3	66:T:100:THR:HG23	1.94	0.49
77:e:46:LYS:O	77:e:50:ILE:HD13	2.13	0.49
80:h:13:LEU:HB3	80:h:310:ILE:CG1	2.42	0.49
80:h:183:LEU:HG	80:h:186:PHE:CE1	2.46	0.49
80:h:221:MET:HB2	80:h:233:THR:HG23	1.93	0.49
47:sR:329:G:H2'	47:sR:330:G:H8	1.77	0.49
47:sR:1471:A:H2	47:sR:1474:G:N3	2.10	0.49
47:sR:1783:C:H2'	47:sR:1784:C:C6	2.47	0.49
80:Rb:264:SER:O	80:Rb:265:LEU:HD13	2.11	0.49
48:s0:143:VAL:CG2	48:s0:156:VAL:HA	2.42	0.49
52:s4:181:VAL:HG21	52:s4:195:ILE:HG13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:s5:189:THR:OG1	53:s5:190:ILE:N	2.45	0.49
56:s8:121:LEU:HD12	56:s8:157:GLU:HG3	1.94	0.49
66:c8:134:ARG:HB2	66:c8:136:GLN:NE2	2.26	0.49
72:d4:32:ARG:NH1	72:d4:39:GLU:OE1	2.36	0.49
76:d8:56:LEU:HD13	76:d8:58:GLU:H	1.75	0.49
1:l:1706:C:H2'	1:l:1707:A:O4'	2.12	0.49
1:l:2147:A:OP2	4:j:200:ARG:NH1	2.45	0.49
1:l:2523:A:H2'	10:p:49:TYR:O	2.12	0.49
5:k:160:VAL:HG11	5:k:194:TRP:HZ3	1.77	0.49
7:m:146:LEU:HD22	7:m:163:LEU:HD13	1.93	0.49
17:w:77:SER:HB2	17:w:104:VAL:HG12	1.94	0.49
26:8:92:LYS:HE2	26:8:110:VAL:O	2.12	0.49
27:9:32:SER:HA	27:9:49:PRO:HA	1.95	0.49
1:AR:75:G:H5'	14:CN:59:ARG:O	2.11	0.49
1:AR:143:G:OP2	81:AR:3518:OHX:N4	2.45	0.49
1:AR:314:U:H2'	1:AR:315:C:H6	1.77	0.49
1:AR:756:U:H2'	1:AR:757:C:C6	2.47	0.49
1:AR:1310:G:N7	81:AR:3526:OHX:N1	2.59	0.49
1:AR:1621:A:H2'	1:AR:1622:U:H6	1.76	0.49
1:AR:1804:A:H2'	1:AR:1805:C:C6	2.47	0.49
7:CG:115:LEU:HD12	7:CG:119:TYR:HD2	1.77	0.49
10:CJ:212:ALA:O	10:CJ:215:VAL:HG22	2.12	0.49
15:CO:119:GLN:O	15:CO:123:LEU:HD12	2.11	0.49
21:CU:79:VAL:HG21	21:CU:106:LEU:HD11	1.95	0.49
46:p0:27:VAL:HB	46:p0:188:VAL:HG22	1.95	0.49
47:A:365:G:O6	81:A:2124:OHX:N1	2.45	0.49
47:A:599:A:H2'	47:A:600:U:C6	2.47	0.49
47:A:1147:A:H2'	47:A:1148:C:H6	1.75	0.49
47:A:1477:G:H2'	47:A:1478:G:C8	2.48	0.49
48:B:50:VAL:HA	48:B:53:THR:CG2	2.42	0.49
48:B:198:MET:HE1	65:S:86:PRO:HA	1.94	0.49
49:C:194:ASN:HB2	49:C:195:LYS:NZ	2.28	0.49
55:I:63:PRO:O	55:I:66:SER:OG	2.29	0.49
59:M:86:ILE:HG12	59:M:107:VAL:HG12	1.94	0.49
60:N:87:PRO:HA	60:N:140:PHE:CZ	2.48	0.49
65:S:81:LYS:O	65:S:81:LYS:HD2	2.13	0.49
74:b:26:CYS:SG	74:b:28:LYS:HB3	2.52	0.49
76:d:27:GLN:HG2	76:d:43:ASN:HD21	1.77	0.49
80:h:195:HIS:NE2	80:h:213:SER:HB2	2.27	0.49
47:sR:631:G:H2'	47:sR:632:U:C6	2.48	0.49
47:sR:1001:A:H2'	47:sR:1002:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1172:G:H21	67:c9:88:VAL:CG2	2.25	0.49
47:sR:1244:A:H3'	47:sR:1244:A:N3	2.27	0.49
48:s0:147:THR:HB	48:s0:151:SER:OG	2.13	0.49
48:s0:197:ILE:H	48:s0:197:ILE:HD12	1.77	0.49
51:s3:102:ALA:HB2	51:s3:171:ALA:HB3	1.94	0.49
57:s9:108:ARG:HB2	57:s9:111:THR:HG23	1.95	0.49
59:c1:110:HIS:HD2	59:c1:138:ASN:HD21	1.59	0.49
64:c6:72:GLY:HA3	64:c6:76:SER:OG	2.12	0.49
68:d0:67:THR:OG1	77:d9:40:ARG:NH1	2.45	0.49
71:d3:126:LYS:HG2	71:d3:131:SER:HA	1.94	0.49
73:d5:71:ILE:HD12	73:d5:76:ALA:HB2	1.94	0.49
74:d6:4:LYS:HG3	74:d6:4:LYS:O	2.12	0.49
1:1:1540:U:OP1	81:1:3519[A]:OHX:N5	2.46	0.49
1:1:2538:U:H4'	1:1:2539:C:OP2	2.12	0.49
1:1:2555:G:N2	35:AH:96:GLU:OE2	2.45	0.49
1:1:2699:G:OP2	81:1:3433:OHX:N4	2.46	0.49
1:1:2707:C:OP1	45:i:34:LYS:NZ	2.46	0.49
1:1:2904:U:H2'	1:1:2905:U:H6	1.77	0.49
1:1:3131:U:H2'	1:1:3132:C:H6	1.78	0.49
10:p:64:ILE:O	10:p:68:ARG:HG2	2.12	0.49
10:p:138:HIS:O	10:p:142:LEU:HG	2.11	0.49
13:s:16:LYS:HG3	13:s:130:VAL:HG13	1.94	0.49
14:t:76:THR:O	14:t:78:ALA:N	2.46	0.49
23:5:104:ARG:HG3	23:5:105:LEU:H	1.78	0.49
1:AR:249:U:H4'	1:AR:250:U:O5'	2.11	0.49
1:AR:817:A:C4	38:DL:13:ASN:O	2.66	0.49
1:AR:822:G:H2'	1:AR:823:C:H6	1.77	0.49
1:AR:1862:U:OP2	81:AR:3637:OHX:N2	2.46	0.49
1:AR:2687:G:N7	81:AR:3420:OHX:N1	2.60	0.49
4:CD:20:THR:HG22	4:CD:23:ARG:NE	2.26	0.49
5:CE:185:GLY:H	5:CE:191:LYS:NZ	2.11	0.49
23:CW:54:VAL:HA	23:CW:66:VAL:O	2.12	0.49
26:CZ:115:ARG:HE	26:CZ:119:THR:HG1	1.59	0.49
28:DB:84:ARG:HG3	28:DB:85:TYR:CD1	2.47	0.49
29:DC:88:ASP:HA	29:DC:91:LEU:HB2	1.94	0.49
47:A:521:A:H2'	47:A:522:U:O4'	2.12	0.49
47:A:736:C:C4	47:A:737:A:N7	2.81	0.49
47:A:1244:A:O2'	47:A:1245:G:OP1	2.30	0.49
47:A:1555:A:P	63:Q:47:ARG:HH12	2.36	0.49
49:C:118:GLN:HE21	49:C:142:PHE:HD2	1.59	0.49
50:D:140:ARG:HG2	50:D:140:ARG:NH1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:F:13:ALA:O	52:F:39:ARG:NH1	2.45	0.49
53:G:225:ARG:O	76:d:61:ARG:NH2	2.45	0.49
55:I:19:GLN:CD	55:I:19:GLN:H	2.21	0.49
58:L:10:LYS:CE	58:L:36:ASP:HB3	2.42	0.49
68:V:22:ILE:HD13	68:V:118:VAL:HG12	1.94	0.49
73:a:46:LYS:HE3	73:a:49:ARG:NH1	2.27	0.49
80:h:103:PHE:HB3	80:h:134:TRP:CE3	2.48	0.49
80:h:262:VAL:CG1	80:h:271:VAL:HB	2.43	0.49
80:h:288:HIS:ND1	80:h:288:HIS:C	2.70	0.49
47:sR:43:A:O2'	47:sR:99:C:OP1	2.23	0.49
47:sR:139:C:H4'	47:sR:140:A:O5'	2.11	0.49
47:sR:223:U:H2'	47:sR:224:C:C6	2.48	0.49
47:sR:407:A:H5'	54:s6:94:ARG:HH21	1.78	0.49
47:sR:565:C:H4'	47:sR:566:C:O5'	2.13	0.49
47:sR:990:C:H1'	62:c4:127:ARG:HD3	1.94	0.49
47:sR:1523:G:H8	67:c9:79:LEU:HD13	1.78	0.49
80:Rb:270:LEU:HD23	80:Rb:270:LEU:H	1.78	0.49
50:s2:139:ILE:CD1	50:s2:191:ALA:HB1	2.42	0.49
53:s5:51:VAL:HG21	53:s5:130:ILE:CD1	2.41	0.49
53:s5:113:ILE:O	53:s5:117:THR:HG23	2.13	0.49
53:s5:196:GLU:O	53:s5:200:ASN:HB2	2.12	0.49
55:s7:53:GLY:C	55:s7:55:LYS:N	2.69	0.49
55:s7:162:ILE:HG13	55:s7:166:LEU:HD21	1.94	0.49
57:s9:49:LEU:HG	57:s9:53:ARG:HH21	1.76	0.49
58:c0:59:PHE:CE1	58:c0:62:GLN:HA	2.46	0.49
1:1:12:A:H2'	1:1:13:A:C8	2.48	0.49
1:1:374:A:H4'	1:1:375:A:OP1	2.12	0.49
1:1:612:U:H2'	1:1:613:G:H8	1.77	0.49
1:1:1073:U:O2'	30:AC:49:GLY:HA3	2.13	0.49
1:1:1486:G:H21	35:AH:6:THR:HG22	1.78	0.49
1:1:1638:A:N3	1:1:1709:C:H1'	2.28	0.49
1:1:1734:G:H2'	1:1:1735:G:O4'	2.12	0.49
1:1:3094:A:H2'	1:1:3095:U:C6	2.48	0.49
1:1:3106:A:H2'	1:1:3107:U:O4'	2.12	0.49
1:1:3275:U:H5''	34:AG:68:TRP:HZ2	1.78	0.49
3:4:149:A:H2'	3:4:150:G:C8	2.47	0.49
6:l:64:SER:N	6:l:75:PRO:HA	2.27	0.49
8:n:170:LYS:HB3	8:n:172:HIS:CE1	2.47	0.49
13:s:16:LYS:HB3	13:s:72:ARG:HG2	1.93	0.49
16:v:23:GLN:O	16:v:27:VAL:HG12	2.13	0.49
18:x:22:LEU:HD12	18:x:146:ILE:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:x:67:ILE:HD12	18:x:82:ARG:CZ	2.43	0.49
24:6:31:ALA:HB2	24:6:69:LEU:HD23	1.94	0.49
35:AH:41:ARG:O	35:AH:43:LYS:HE2	2.13	0.49
39:AL:56:ILE:HD12	39:AL:57:ASN:H	1.77	0.49
1:AR:1471:U:H2'	1:AR:1472:U:C6	2.46	0.49
1:AR:2392:C:O2'	5:CE:266:ARG:NH2	2.25	0.49
1:AR:2413:A:H2'	1:AR:2414:G:C8	2.48	0.49
1:AR:2515:A:H5''	16:CP:28:TRP:CD1	2.47	0.49
1:AR:2538:U:H3'	1:AR:2539:C:O4'	2.13	0.49
1:AR:3023:U:H2'	1:AR:3024:A:H8	1.76	0.49
4:CD:188:LYS:HD3	4:CD:189:TYR:CE2	2.47	0.49
5:CE:211:GLN:HG3	5:CE:212:ASN:N	2.28	0.49
5:CE:280:HIS:HB3	5:CE:324:VAL:HG13	1.94	0.49
11:CK:117:PHE:CE1	11:CK:165:CYS:HB3	2.47	0.49
17:CQ:36:VAL:HG21	17:CQ:108:ILE:HG12	1.95	0.49
18:CR:4:TYR:CE2	18:CR:16:SER:HB3	2.48	0.49
19:CS:135:GLN:OE1	19:CS:135:GLN:N	2.41	0.49
22:CV:25:VAL:HG13	22:CV:30:TYR:HE2	1.78	0.49
31:DE:13:LYS:HD2	31:DE:103:THR:HG21	1.93	0.49
31:DE:99:ASP:OD1	31:DE:99:ASP:N	2.36	0.49
35:DI:31:ARG:HH11	35:DI:31:ARG:HG3	1.78	0.49
47:A:224:C:H2'	47:A:225:A:H8	1.77	0.49
47:A:329:G:OP1	56:J:98:LYS:HE2	2.13	0.49
47:A:399:A:H4'	52:F:3:ARG:HG2	1.93	0.49
47:A:773:C:OP1	52:F:22:LYS:HD2	2.13	0.49
47:A:1158:C:O2'	47:A:1581:C:OP2	2.30	0.49
47:A:1542:G:O2'	81:A:1951:OHX:N4	2.46	0.49
47:A:1586:A:H2'	47:A:1587:A:O4'	2.13	0.49
47:A:1623:C:H2'	47:A:1624:C:C6	2.45	0.49
48:B:88:LYS:NZ	65:S:79:GLU:HB2	2.28	0.49
55:I:11:GLN:HG2	55:I:13:PRO:HG2	1.94	0.49
55:I:14:THR:OG1	55:I:15:GLU:N	2.41	0.49
59:M:67:ARG:HD3	59:M:67:ARG:N	2.27	0.49
60:N:58:LEU:HD12	60:N:58:LEU:N	2.28	0.49
66:T:22:VAL:CG1	66:T:31:ALA:HB1	2.42	0.49
66:T:65:GLU:O	66:T:69:ILE:HG13	2.11	0.49
47:sR:525:A:H2'	47:sR:526:A:H8	1.76	0.49
47:sR:956:C:OP2	61:c3:12:SER:HB3	2.13	0.49
47:sR:1022:C:O2'	47:sR:1125:A:N1	2.43	0.49
47:sR:1031:U:H4'	47:sR:1032:G:OP2	2.13	0.49
47:sR:1514:U:H1'	51:s3:6:SER:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:114:VAL:HG23	49:s1:114:VAL:O	2.12	0.49
51:s3:70:THR:CG2	51:s3:86:LEU:HG	2.41	0.49
51:s3:80:ALA:O	51:s3:83:THR:OG1	2.21	0.49
53:s5:26:ALA:H	64:c6:27:GLY:HA3	1.77	0.49
55:s7:99:LEU:HD12	55:s7:116:ARG:HB3	1.95	0.49
55:s7:110:GLN:O	55:s7:110:GLN:CG	2.60	0.49
55:s7:182:VAL:HG12	55:s7:183:PHE:H	1.78	0.49
72:d4:43:LYS:HE2	72:d4:43:LYS:HA	1.95	0.49
1:1:118:U:O2	1:1:121:A:H5'	2.11	0.49
1:1:610:G:N7	6:l:309:ARG:NH2	2.61	0.49
1:1:619:A:H5''	1:1:620:U:OP1	2.12	0.49
1:1:718:G:O6	1:1:751:A:H1'	2.12	0.49
1:1:748:U:H2'	1:1:749:C:C6	2.48	0.49
1:1:1040:A:N3	12:r:198:LYS:NZ	2.49	0.49
1:1:2407:C:H2'	1:1:2408:U:H6	1.78	0.49
1:1:3111:U:O4	1:1:3120:C:H4'	2.12	0.49
5:k:238:LEU:HB2	5:k:246:LEU:HB2	1.95	0.49
10:p:64:ILE:HG13	10:p:65:LEU:N	2.27	0.49
21:0:10:ILE:HG12	21:0:26:ARG:HB2	1.94	0.49
28:AA:87:LEU:HD13	28:AA:127:ASN:CG	2.37	0.49
28:AA:103:GLN:O	28:AA:106:GLN:HB2	2.12	0.49
32:AE:56:ASN:O	32:AE:59:ILE:HG12	2.12	0.49
1:AR:18:G:O6	81:AR:4175:OHX:N3	2.46	0.49
1:AR:408:A:N6	3:AT:15:G:H1'	2.26	0.49
1:AR:551:A:O2'	1:AR:552:G:H8	1.96	0.49
1:AR:701:G:H2'	1:AR:702:C:C6	2.48	0.49
1:AR:1357:G:H2'	1:AR:1358:C:C6	2.48	0.49
1:AR:1688:U:H2'	1:AR:1689:U:H6	1.78	0.49
1:AR:2146:C:OP1	4:CD:200:ARG:NH2	2.45	0.49
1:AR:3312:U:OP1	81:AR:3520:OHX:N2	2.46	0.49
4:CD:102:LEU:HD22	4:CD:107:VAL:HG12	1.94	0.49
4:CD:143:GLU:O	4:CD:145:LYS:HG3	2.12	0.49
5:CE:256:HIS:HA	5:CE:257:PRO:C	2.38	0.49
7:CG:257:GLU:HG2	7:CG:257:GLU:O	2.12	0.49
8:CH:13:GLU:OE2	33:DG:88:HIS:HA	2.13	0.49
10:CJ:160:ILE:O	10:CJ:164:VAL:HG13	2.11	0.49
12:CL:191:LYS:HD3	12:CL:213:PHE:CE1	2.47	0.49
14:CN:129:ASN:HB2	14:CN:131:LYS:NZ	2.28	0.49
23:CW:83:TYR:O	23:CW:87:ASN:ND2	2.39	0.49
28:DB:48:ARG:HB3	28:DB:69:LYS:HB3	1.93	0.49
29:DC:74:ASN:OD1	29:DC:113:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:523:G:H5''	72:Z:59:GLY:O	2.13	0.49
47:A:838:G:H2'	47:A:839:U:C6	2.47	0.49
47:A:1188:G:O2'	47:A:1430:U:OP1	2.27	0.49
47:A:1532:U:O4	73:a:97:LYS:NZ	2.46	0.49
48:B:18:LEU:H	48:B:18:LEU:HD12	1.78	0.49
48:B:25:GLY:HA2	48:B:48:ILE:HD11	1.94	0.49
48:B:93:THR:HB	48:B:95:ALA:N	2.28	0.49
53:G:53:VAL:HG21	53:G:59:VAL:HG22	1.94	0.49
54:H:41:VAL:HG23	54:H:42:GLY:H	1.77	0.49
61:O:135:LEU:HD13	61:O:139:TRP:CG	2.47	0.49
62:P:89:THR:HG21	62:P:126:THR:HG1	1.77	0.49
71:Y:97:ASP:HB2	71:Y:142:LYS:HZ1	1.77	0.49
74:b:23:CYS:SG	74:b:74:CYS:HB3	2.52	0.49
74:b:74:CYS:SG	74:b:74:CYS:O	2.70	0.49
79:g:108:VAL:HA	79:g:114:VAL:HA	1.95	0.49
80:h:278:PHE:HZ	80:h:311:ARG:NH2	2.11	0.49
47:sR:176:C:H3'	47:sR:177:U:H6	1.77	0.49
47:sR:1358:G:H2'	47:sR:1359:C:C6	2.47	0.49
47:sR:1498:G:H2'	47:sR:1499:G:H8	1.76	0.49
80:Rb:23:LEU:HB3	80:Rb:33:LEU:HD11	1.94	0.49
80:Rb:193:ILE:HB	51:s3:221:SER:CB	2.41	0.49
80:Rb:228:LYS:HG3	51:s3:224:ASP:HB2	1.93	0.49
48:s0:23:HIS:HA	48:s0:48:ILE:CG2	2.43	0.49
49:s1:180:THR:HG23	49:s1:183:GLN:H	1.76	0.49
51:s3:12:VAL:O	51:s3:16:VAL:HG13	2.12	0.49
54:s6:5:ILE:HD12	54:s6:16:PHE:CD1	2.48	0.49
59:c1:93:TYR:HB2	59:c1:100:TYR:CE1	2.47	0.49
63:c5:12:PHE:O	63:c5:14:THR:HG23	2.12	0.49
64:c6:99:GLU:O	64:c6:102:LYS:N	2.45	0.49
66:c8:29:VAL:O	66:c8:43:SER:OG	2.25	0.49
68:d0:22:ILE:HG13	68:d0:117:VAL:O	2.12	0.49
72:d4:27:VAL:HG21	72:d4:40:LEU:HD21	1.93	0.49
1:1:1666:G:H2'	1:1:1667:A:C8	2.48	0.49
1:1:1752:A:OP2	81:1:3537:OHX:N3	2.45	0.49
1:1:3200:G:O6	81:1:4126:OHX:N5	2.46	0.49
81:1:3404:OHX:N2	38:AK:44:THR:O	2.46	0.49
9:o:158:LYS:O	9:o:158:LYS:HD2	2.13	0.49
10:p:78:PHE:C	10:p:80:TYR:H	2.20	0.49
11:q:13:PRO:HD2	11:q:16:VAL:HG22	1.95	0.49
17:w:73:PHE:CD1	17:w:78:ARG:HD3	2.47	0.49
31:AD:13:LYS:HB3	31:AD:100:ILE:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:563:U:H2'	1:AR:564:G:C8	2.47	0.49
1:AR:799:G:O2'	14:CN:18:TRP:NE1	2.43	0.49
1:AR:908:G:H4'	1:AR:909:G:O5'	2.13	0.49
1:AR:993:G:N3	1:AR:2637:A:H2'	2.27	0.49
1:AR:1821:U:C2	35:DI:67:LYS:HB2	2.47	0.49
1:AR:2254:U:H3	1:AR:2263:C:N4	2.02	0.49
1:AR:3112:G:O6	1:AR:3120:C:H5''	2.13	0.49
7:CG:86:TYR:CE2	7:CG:247:ILE:HA	2.48	0.49
10:CJ:100:GLU:CD	10:CJ:108:ARG:HH11	2.20	0.49
16:CP:14:LYS:HA	16:CP:19:LEU:HD23	1.95	0.49
16:CP:46:ASP:OD2	16:CP:50:ARG:NH2	2.46	0.49
27:DA:37:LYS:H	27:DA:37:LYS:CD	2.20	0.49
37:DK:83:ALA:O	37:DK:87:VAL:HG23	2.13	0.49
47:A:25:C:H1'	47:A:26:A:OP2	2.13	0.49
47:A:245:U:O2'	47:A:247:A:N7	2.42	0.49
47:A:324:U:OP1	59:M:133:LYS:NZ	2.31	0.49
47:A:654:C:H5'	47:A:655:G:OP2	2.12	0.49
48:B:55:GLU:HA	48:B:58:VAL:HG22	1.94	0.49
48:B:159:ALA:HB3	69:W:66:ASP:OD2	2.12	0.49
53:G:92:ARG:HA	53:G:95:ASN:ND2	2.16	0.49
63:Q:33:PHE:CE2	63:Q:86:VAL:HA	2.48	0.49
67:U:26:GLY:O	67:U:28:LEU:HG	2.13	0.49
72:Z:131:ARG:HB3	72:Z:131:ARG:NH1	2.28	0.49
76:d:27:GLN:HG2	76:d:43:ASN:ND2	2.28	0.49
80:h:299:GLN:O	80:h:299:GLN:HG3	2.11	0.49
47:sR:27:U:OP1	81:sR:1964:OHX:N6	2.46	0.49
47:sR:94:U:O3'	52:s4:6:LYS:HG2	2.13	0.49
47:sR:564:G:N2	47:sR:577:G:OP1	2.45	0.49
47:sR:881:A:OP2	81:sR:1965:OHX:N2	2.45	0.49
47:sR:885:G:N2	62:c4:123:SER:O	2.44	0.49
47:sR:1062:A:H5''	47:sR:1063:U:C5	2.47	0.49
47:sR:1065:A:N3	49:s1:146:GLN:NE2	2.60	0.49
80:Rb:11:GLY:O	80:Rb:312:VAL:HG22	2.12	0.49
50:s2:39:THR:HG23	50:s2:42:GLY:N	2.25	0.49
53:s5:64:VAL:O	53:s5:65:ARG:HD3	2.13	0.49
55:s7:29:ASN:OD1	55:s7:29:ASN:N	2.44	0.49
56:s8:84:HIS:NE2	56:s8:97:THR:OG1	2.31	0.49
58:c0:55:VAL:HG22	58:c0:56:LYS:O	2.13	0.49
63:c5:18:ARG:NH1	66:c8:90:ASN:OD1	2.46	0.49
64:c6:45:ARG:O	64:c6:48:VAL:HG12	2.12	0.49
64:c6:57:LEU:H	64:c6:57:LEU:HD12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:c8:56:LYS:C	66:c8:57:ARG:HD2	2.38	0.49
67:c9:73:VAL:HG21	67:c9:102:ARG:HG3	1.95	0.49
1:1:171:G:H2'	1:1:172:G:O4'	2.12	0.49
1:1:585:A:H2'	1:1:586:C:C6	2.48	0.49
1:1:641:C:OP1	29:AB:21:ARG:HB3	2.12	0.49
1:1:1281:G:H2'	1:1:1282:G:C8	2.48	0.49
1:1:1460:A:H2'	1:1:1461:A:C8	2.47	0.49
1:1:1544:G:H5'	16:v:67:ARG:HD2	1.95	0.49
1:1:3255:U:H2'	1:1:3256:G:C8	2.48	0.49
4:j:112:ILE:CD1	4:j:135:ILE:HG22	2.42	0.49
13:s:10:ARG:HG2	13:s:10:ARG:O	2.12	0.49
28:AA:25:ILE:HA	28:AA:43:VAL:HG12	1.95	0.49
28:AA:26:VAL:HG23	28:AA:27:LYS:N	2.27	0.49
30:AC:46:ALA:O	30:AC:50:THR:HG23	2.12	0.49
31:AD:75:ASN:O	31:AD:79:THR:HG23	2.12	0.49
37:AJ:5:THR:HG23	37:AJ:12:ASN:C	2.37	0.49
1:AR:933:A:H61	6:CF:102:PRO:HD2	1.77	0.49
1:AR:1498:A:H2'	1:AR:1499:C:H6	1.78	0.49
1:AR:2728:G:N7	22:CV:87:LYS:NZ	2.56	0.49
1:AR:3076:C:OP1	32:DF:65:LYS:NZ	2.45	0.49
7:CG:37:VAL:HG13	7:CG:67:SER:OG	2.13	0.49
7:CG:99:TYR:HE2	7:CG:164:LYS:HG3	1.76	0.49
8:CH:63:LEU:HB2	8:CH:79:VAL:HG23	1.94	0.49
8:CH:172:HIS:CD2	8:CH:173:MET:HG3	2.47	0.49
12:CL:77:THR:O	12:CL:81:GLY:N	2.41	0.49
29:DC:132:LYS:O	29:DC:136:GLU:HG3	2.12	0.49
44:DR:49:ARG:HB2	44:DR:55:TRP:CH2	2.48	0.49
47:A:219:A:N7	47:A:830:U:H5	2.11	0.49
47:A:243:G:H21	52:F:130:GLN:NE2	2.10	0.49
47:A:513:U:H4'	57:K:131:GLN:HG2	1.95	0.49
47:A:1007:C:H5''	62:P:135:ARG:HG2	1.94	0.49
47:A:1318:G:OP1	65:S:67:ARG:HD3	2.13	0.49
47:A:1479:A:H2'	47:A:1480:G:H8	1.78	0.49
48:B:143:VAL:O	48:B:157:ASP:C	2.56	0.49
56:J:36:THR:OG1	56:J:57:ALA:O	2.17	0.49
60:N:75:VAL:HA	60:N:78:LEU:HG	1.94	0.49
65:S:88:VAL:O	65:S:95:ARG:N	2.46	0.49
67:U:28:LEU:HD22	67:U:55:TYR:CE1	2.48	0.49
76:d:9:LEU:HD12	76:d:34:GLU:HB3	1.93	0.49
47:sR:821:U:H2'	47:sR:822:U:O4'	2.13	0.49
47:sR:1702:A:H4'	47:sR:1702:A:OP1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:Rb:85:TRP:CZ3	65:c7:29:GLN:HB3	2.47	0.49
49:s1:90:GLU:CD	49:s1:91:VAL:H	2.20	0.49
49:s1:144:ARG:HG2	49:s1:145:LYS:O	2.12	0.49
49:s1:161:ILE:H	49:s1:161:ILE:HD12	1.78	0.49
51:s3:140:GLY:O	51:s3:147:ALA:HA	2.12	0.49
52:s4:73:ASP:HA	52:s4:164:LEU:HD11	1.95	0.49
53:s5:137:ILE:HA	53:s5:140:THR:CG2	2.43	0.49
63:c5:17:TYR:CD2	63:c5:18:ARG:HG3	2.48	0.49
67:c9:40:SER:HB2	67:c9:96:ALA:HA	1.95	0.49
68:d0:51:VAL:HG12	68:d0:52:LYS:N	2.27	0.49
73:d5:40:VAL:HG13	73:d5:41:ILE:N	2.27	0.49
1:1:284:A:OP2	43:AP:41:ARG:NH1	2.45	0.49
1:1:367:A:OP1	81:1:4091:OHX:N2	2.46	0.49
1:1:2562:A:N3	10:p:30:THR:N	2.59	0.49
1:1:3051:U:C2	1:1:3052:G:C8	3.01	0.49
1:1:3243:A:C8	17:w:156:LEU:HD22	2.47	0.49
2:3:71:G:H2'	2:3:72:A:C8	2.48	0.49
7:m:52:VAL:HG11	7:m:65:ILE:HD11	1.94	0.49
9:o:84:VAL:HG23	9:o:117:VAL:HB	1.94	0.49
28:AA:10:VAL:O	28:AA:83:THR:HG22	2.13	0.49
32:AE:27:LYS:C	32:AE:30:PRO:HD2	2.37	0.49
1:AR:671:U:OP2	19:CS:57:ILE:HD12	2.13	0.49
1:AR:712:G:H2'	1:AR:713:U:C6	2.48	0.49
1:AR:1097:G:O5'	22:CV:129:LYS:HE2	2.13	0.49
1:AR:1225:A:H2'	1:AR:1226:G:H8	1.78	0.49
1:AR:1332:A:H2'	1:AR:1333:C:C6	2.48	0.49
1:AR:1677:G:OP1	23:CW:100:THR:HA	2.13	0.49
1:AR:3072:C:H2'	1:AR:3073:A:O4'	2.13	0.49
1:AR:3343:G:H21	1:AR:3362:A:H2	1.61	0.49
2:AS:64:A:N1	12:CL:202:LYS:HD3	2.28	0.49
2:AS:115:G:N2	7:CG:72:ASP:O	2.40	0.49
9:CI:180:SER:H	9:CI:183:ASP:HB2	1.78	0.49
13:CM:74:PRO:HA	13:CM:77:GLU:HB2	1.95	0.49
17:CQ:174:PHE:O	17:CQ:178:VAL:HG13	2.13	0.49
18:CR:27:LYS:HD3	18:CR:63:PHE:HB3	1.95	0.49
20:CT:177:VAL:HA	20:CT:180:LYS:HG2	1.94	0.49
23:CW:17:VAL:HG12	23:CW:105:LEU:HD11	1.94	0.49
28:DB:51:LEU:HG	28:DB:65:ARG:HB3	1.94	0.49
47:A:602:U:H2'	47:A:603:U:C6	2.47	0.49
47:A:1430:U:C1'	68:V:72:ASN:HD22	2.26	0.49
48:B:8:ASP:HB2	69:W:80:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B:140:ASN:ND2	69:W:29:HIS:C	2.71	0.49
54:H:69:LEU:C	54:H:71:THR:H	2.20	0.49
61:O:31:GLU:OE1	61:O:31:GLU:N	2.27	0.49
62:P:70:LYS:O	62:P:74:VAL:HG12	2.13	0.49
74:b:53:LEU:O	74:b:57:SER:HB3	2.12	0.49
76:d:14:LYS:HD2	76:d:15:VAL:N	2.28	0.49
47:sR:397:A:O3'	56:s8:50:GLY:HA2	2.13	0.49
47:sR:978:A:H2'	47:sR:979:A:O4'	2.13	0.49
47:sR:1653:C:OP2	81:sR:1934:OHX:N6	2.46	0.49
80:Rb:300:THR:HA	80:Rb:314:GLN:CB	2.40	0.49
55:s7:126:LEU:O	55:s7:130:VAL:HG22	2.12	0.49
57:s9:3:ARG:HG2	57:s9:4:ALA:H	1.77	0.49
57:s9:108:ARG:HH12	57:s9:126:ARG:NH2	2.11	0.49
62:c4:42:VAL:HG13	62:c4:46:MET:HE3	1.95	0.49
68:d0:35:GLU:CG	68:d0:89:ARG:HH22	2.25	0.49
72:d4:104:SER:O	72:d4:108:ARG:HG3	2.11	0.49
1:1:120:G:N7	10:p:128:LYS:HG3	2.28	0.48
1:1:279:U:H2'	1:1:280:U:C6	2.48	0.48
1:1:1211:U:H2'	1:1:1212:A:C8	2.48	0.48
1:1:1369:A:OP1	29:AB:21:ARG:NH1	2.45	0.48
1:1:1799:A:H2'	1:1:1800:A:H8	1.76	0.48
1:1:1895:A:O2'	1:1:3053:G:H4'	2.12	0.48
1:1:1925:U:O2	44:AQ:19:GLY:HA2	2.13	0.48
1:1:2842:U:O2	1:1:2842:U:H2'	2.13	0.48
1:1:2986:U:H2'	1:1:2987:A:H8	1.77	0.48
1:1:3035:A:OP2	81:1:3558:OHX:N3	2.46	0.48
3:4:75:G:C8	40:AM:30:ARG:HG2	2.48	0.48
4:j:108:PRO:HG2	44:AQ:86:LEU:HD22	1.94	0.48
5:k:41:VAL:CA	5:k:185:GLY:HA3	2.41	0.48
11:q:59:ASN:ND2	15:u:41:GLN:HE21	2.11	0.48
12:r:86:HIS:HB3	12:r:139:ARG:HG2	1.95	0.48
19:y:158:HIS:H	19:y:186:VAL:CG1	2.23	0.48
29:AB:96:LYS:HD3	29:AB:96:LYS:N	2.28	0.48
44:AQ:84:ARG:CZ	44:AQ:84:ARG:HB3	2.41	0.48
45:i:71:ASN:HB3	47:A:1460:A:O4'	2.13	0.48
1:AR:896:A:H5'	4:CD:183:GLY:HA2	1.95	0.48
1:AR:1234:G:OP2	1:AR:1235:U:H3'	2.12	0.48
1:AR:1641:U:O2'	1:AR:1642:A:H3'	2.13	0.48
1:AR:2107:A:H2	1:AR:3344:A:C8	2.31	0.48
1:AR:2344:U:H2'	1:AR:2345:A:H8	1.77	0.48
3:AT:23:U:OP1	27:DA:16:ARG:NH1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:264:GLN:NE2	7:CG:264:GLN:H	2.09	0.48
10:CJ:111:LYS:HG3	10:CJ:112:GLU:N	2.27	0.48
12:CL:169:LYS:N	12:CL:169:LYS:HD2	2.28	0.48
29:DC:104:THR:HG21	29:DC:112:ILE:HD11	1.94	0.48
37:DK:34:SER:O	37:DK:34:SER:OG	2.27	0.48
46:p0:76:LEU:HD11	46:p0:191:TYR:HB2	1.95	0.48
47:A:4:C:H5'	50:D:204:THR:OG1	2.13	0.48
47:A:1429:G:H21	68:V:72:ASN:HD21	1.59	0.48
47:A:1533:C:H5	73:a:77:ARG:HE	1.59	0.48
48:B:175:TYR:CD2	48:B:199:PRO:HA	2.47	0.48
49:C:77:GLU:C	49:C:79:HIS:H	2.20	0.48
63:Q:123:TYR:OH	66:T:122:HIS:NE2	2.33	0.48
64:R:9:THR:CG2	64:R:88:GLY:HA2	2.35	0.48
64:R:14:LYS:HB2	64:R:76:SER:HB3	1.95	0.48
65:S:110:VAL:O	65:S:114:GLY:N	2.39	0.48
67:U:86:ARG:HH11	67:U:86:ARG:HG3	1.78	0.48
71:Y:107:PHE:HE2	71:Y:120:VAL:HG23	1.78	0.48
75:c:34:ASP:OD1	75:c:45:THR:HG22	2.13	0.48
76:d:13:ILE:CG2	76:d:31:GLU:HB2	2.42	0.48
80:h:151:VAL:O	80:h:152:SER:C	2.55	0.48
80:h:287:PRO:HG3	80:h:307:ASP:HB3	1.95	0.48
47:sR:761:G:N7	81:sR:1940:OHX:N5	2.60	0.48
47:sR:1244:A:O2'	47:sR:1245:G:O5'	2.19	0.48
47:sR:1472:C:H5'	47:sR:1474:G:O4'	2.13	0.48
80:Rb:34:LEU:HD22	80:Rb:80:ALA:HB1	1.95	0.48
80:Rb:114:ASP:OD2	80:Rb:156:VAL:HG12	2.12	0.48
80:Rb:182:ASN:ND2	80:Rb:189:GLU:OE1	2.45	0.48
80:Rb:228:LYS:C	80:Rb:229:LYS:HG2	2.37	0.48
48:s0:188:LEU:HD21	48:s0:195:TRP:CD1	2.48	0.48
49:s1:193:ILE:O	49:s1:197:ILE:HG23	2.13	0.48
52:s4:106:LYS:O	52:s4:108:ARG:NH1	2.46	0.48
53:s5:143:ARG:O	53:s5:144:GLU:HB3	2.13	0.48
54:s6:180:THR:CG2	54:s6:183:ARG:H	2.25	0.48
57:s9:125:ALA:O	57:s9:128:LEU:HB2	2.13	0.48
61:c3:28:LEU:O	61:c3:32:SER:OG	2.31	0.48
65:c7:80:ARG:HH11	65:c7:83:GLN:HE21	1.60	0.48
65:c7:101:ASN:HA	65:c7:120:SER:CB	2.43	0.48
71:d3:100:ASP:O	71:d3:102:VAL:HG13	2.13	0.48
1:1:54:C:O2'	1:1:1547:G:H1'	2.14	0.48
1:1:239:G:H4'	1:1:240:U:OP1	2.13	0.48
1:1:547:G:H1'	1:1:548:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1013:G:N7	81:1:3516:OHX:N6	2.61	0.48
1:1:2254:U:H2'	1:1:2261:G:N2	2.27	0.48
1:1:2256:A:N7	47:A:1757:G:H4'	2.27	0.48
1:1:2264:U:OP2	81:1:3492:OHX:N5	2.45	0.48
1:1:2780:A:H2'	1:1:2781:U:C6	2.48	0.48
2:3:90:U:H2'	2:3:91:G:O4'	2.13	0.48
3:4:143:U:P	16:v:38:ARG:HH12	2.36	0.48
27:9:112:ASP:H	27:9:115:ARG:HB3	1.77	0.48
28:AA:4:PHE:HE1	28:AA:82:PRO:HG3	1.78	0.48
28:AA:36:HIS:HB3	28:AA:38:PHE:CZ	2.48	0.48
31:AD:70:PHE:CG	31:AD:77:LEU:HD13	2.48	0.48
1:AR:744:A:H4'	19:CS:142:GLY:O	2.13	0.48
1:AR:1236:G:N2	1:AR:1244:A:OP1	2.45	0.48
1:AR:1686:U:O2	1:AR:1688:U:H1'	2.13	0.48
1:AR:2341:A:OP2	5:CE:247:ARG:NH2	2.46	0.48
4:CD:101:VAL:CG1	4:CD:165:VAL:HG22	2.31	0.48
4:CD:118:GLU:HG3	4:CD:125:ALA:HB3	1.95	0.48
4:CD:249:SER:HA	4:CD:251:LYS:HD2	1.94	0.48
12:CL:115:MET:O	12:CL:115:MET:HG3	2.13	0.48
14:CN:46:ILE:HG22	14:CN:47:ALA:CB	2.42	0.48
22:CV:39:ILE:HG22	22:CV:99:SER:HB3	1.95	0.48
24:CX:19:VAL:HG23	24:CX:50:PRO:O	2.12	0.48
32:DF:8:VAL:HG11	32:DF:10:ARG:HE	1.78	0.48
47:A:189:C:N4	56:J:138:ASN:HD21	2.10	0.48
47:A:1031:U:H4'	47:A:1032:G:OP2	2.11	0.48
47:A:1515:A:H1'	47:A:1518:C:N4	2.28	0.48
49:C:61:LEU:HA	49:C:64:ARG:NH2	2.28	0.48
55:I:181:ILE:HG22	55:I:182:VAL:N	2.28	0.48
59:M:55:ASP:OD1	59:M:57:LYS:N	2.46	0.48
68:V:16:GLN:HG3	68:V:17:GLN:H	1.77	0.48
72:Z:43:LYS:O	72:Z:47:VAL:HG23	2.13	0.48
73:a:77:ARG:HB2	73:a:77:ARG:HH11	1.78	0.48
75:c:78:SER:OG	75:c:79:PHE:N	2.45	0.48
47:sR:625:C:H2'	47:sR:626:U:C6	2.48	0.48
47:sR:1584:G:N2	47:sR:1611:A:OP2	2.35	0.48
48:s0:17:LEU:HB3	48:s0:22:THR:HG21	1.94	0.48
49:s1:84:ILE:HD12	49:s1:84:ILE:N	2.28	0.48
53:s5:101:GLY:HA2	53:s5:104:ASN:CG	2.38	0.48
54:s6:122:GLU:CD	54:s6:123:GLY:N	2.71	0.48
56:s8:48:THR:HG22	56:s8:52:ASN:O	2.14	0.48
57:s9:105:LEU:HD12	57:s9:105:LEU:HA	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:d1:11:LEU:HD12	69:d1:12:TYR:N	2.28	0.48
70:d2:8:ALA:CB	70:d2:74:VAL:HG11	2.43	0.48
73:d5:59:TYR:CE1	73:d5:100:ILE:HG22	2.47	0.48
1:1:663:C:H2'	1:1:664:U:C6	2.48	0.48
1:1:1593:A:O4'	35:AH:60:ARG:HD3	2.13	0.48
1:1:1740:U:H1'	1:1:1741:A:H2	1.78	0.48
1:1:2261:G:O2'	1:1:2263:C:N4	2.47	0.48
1:1:2588:U:OP1	10:p:241:LYS:NZ	2.41	0.48
12:r:47:PRO:HB3	12:r:171:TRP:CZ2	2.49	0.48
14:t:48:PRO:HA	14:t:137:GLN:CB	2.42	0.48
18:x:116:HIS:O	18:x:148:LEU:HA	2.13	0.48
42:AO:13:LEU:HD11	42:AO:17:ARG:CZ	2.43	0.48
1:AR:321:C:H5''	16:CP:150:TRP:CE3	2.49	0.48
1:AR:741:U:H2'	1:AR:742:G:O4'	2.13	0.48
1:AR:1222:G:OP2	46:p0:57:THR:OG1	2.27	0.48
1:AR:1357:G:H2'	1:AR:1358:C:H6	1.78	0.48
1:AR:1495:U:H5	1:AR:1835:A:C2	2.31	0.48
1:AR:1625:A:H2'	1:AR:1626:U:H6	1.79	0.48
1:AR:1770:G:H5'	1:AR:1771:C:OP2	2.13	0.48
1:AR:1813:A:H2'	1:AR:1814:A:H5''	1.96	0.48
1:AR:2417:U:OP1	4:CD:221:LYS:NZ	2.39	0.48
2:AS:107:C:H2'	2:AS:108:A:C8	2.48	0.48
7:CG:234:ASP:HB3	81:CG:301:OHX:N2	2.28	0.48
11:CK:129:ARG:O	11:CK:132:VAL:HG22	2.14	0.48
18:CR:48:LEU:HD22	18:CR:88:VAL:HB	1.95	0.48
47:A:79:C:H1'	54:H:174:LYS:CG	2.43	0.48
47:A:123:G:OP1	52:F:77:ARG:NH2	2.46	0.48
47:A:391:A:OP2	56:J:23:LYS:HD3	2.13	0.48
47:A:460:A:H5'	47:A:461:G:OP2	2.13	0.48
47:A:576:G:H4'	47:A:580:A:C5	2.49	0.48
47:A:755:A:H2'	47:A:756:A:H8	1.78	0.48
47:A:951:A:H1'	61:O:101:HIS:CG	2.47	0.48
47:A:1315:U:H2'	47:A:1316:G:O4'	2.14	0.48
47:A:1393:C:H2'	47:A:1394:G:O4'	2.13	0.48
51:E:34:TYR:HA	51:E:52:ALA:HA	1.95	0.48
52:F:36:HIS:CD2	52:F:85:GLY:HA3	2.47	0.48
52:F:126:VAL:CA	52:F:141:THR:HG22	2.39	0.48
72:Z:128:LYS:CG	72:Z:131:ARG:HH12	2.25	0.48
73:a:37:GLN:HB3	73:a:38:HIS:CD2	2.48	0.48
77:e:21:CYS:HB3	77:e:25:SER:H	1.78	0.48
47:sR:328:A:H2'	47:sR:329:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:874:C:H2'	47:sR:875:G:C8	2.48	0.48
47:sR:961:U:C2	47:sR:962:C:C5	3.01	0.48
47:sR:1175:U:H2'	47:sR:1176:G:C8	2.48	0.48
47:sR:1208:A:N1	47:sR:1455:G:N2	2.59	0.48
47:sR:1334:U:H2'	47:sR:1335:U:C6	2.48	0.48
47:sR:1511:U:H2'	47:sR:1512:G:H8	1.77	0.48
47:sR:1552:U:H2'	47:sR:1553:G:O4'	2.13	0.48
47:sR:1697:G:H3'	47:sR:1698:G:H8	1.78	0.48
80:Rb:165:ASP:O	80:Rb:166:SER:OG	2.29	0.48
48:s0:25:GLY:O	48:s0:45:VAL:CG2	2.60	0.48
49:s1:180:THR:N	49:s1:183:GLN:HE21	2.11	0.48
52:s4:60:GLU:O	52:s4:64:ILE:HG13	2.13	0.48
53:s5:144:GLU:OE1	53:s5:221:ALA:HB1	2.14	0.48
54:s6:166:GLU:OE1	54:s6:166:GLU:N	2.43	0.48
55:s7:44:LYS:HZ1	55:s7:62:VAL:HA	1.78	0.48
55:s7:86:GLN:HG3	55:s7:87:ASP:N	2.28	0.48
55:s7:112:ARG:O	55:s7:112:ARG:HG3	2.14	0.48
62:c4:128:LYS:HD3	74:d6:27:SER:CB	2.40	0.48
66:c8:35:ILE:CG2	66:c8:102:ALA:HB2	2.43	0.48
1:1:1480:G:H4'	1:1:1481:A:OP1	2.13	0.48
1:1:1641:U:O2'	1:1:1642:A:H3'	2.14	0.48
1:1:1941:C:H1'	1:1:3362:A:C8	2.48	0.48
1:1:2537:U:H4'	1:1:2538:U:OP1	2.13	0.48
5:k:156:SER:HA	5:k:188:ILE:HD13	1.95	0.48
6:l:120:TYR:CE2	6:l:277:PRO:HB3	2.48	0.48
7:m:56:THR:OG1	7:m:59:ASP:HB3	2.14	0.48
7:m:108:ARG:CZ	7:m:253:PHE:HB2	2.43	0.48
7:m:132:THR:HG21	7:m:170:GLY:CA	2.41	0.48
9:o:136:TYR:CE2	9:o:231:ASN:HB2	2.48	0.48
29:AB:130:VAL:HG11	29:AB:145:VAL:HG11	1.96	0.48
31:AD:34:LEU:HD23	31:AD:39:SER:HB2	1.93	0.48
39:AL:15:THR:HB	39:AL:70:PRO:HG2	1.95	0.48
1:AR:565:U:H2'	1:AR:566:G:H8	1.77	0.48
1:AR:993:G:OP1	81:AR:3412:OHX:N6	2.46	0.48
1:AR:1561:G:O2'	1:AR:1562:C:OP2	2.28	0.48
1:AR:1709:C:H2'	1:AR:1710:C:C6	2.48	0.48
1:AR:2144:A:H1'	1:AR:2281:A:H61	1.76	0.48
1:AR:2273:G:O6	81:AR:3478[A]:OHX:N2	2.46	0.48
1:AR:2882:U:H2'	1:AR:2883:U:H6	1.79	0.48
1:AR:3084:C:H2'	1:AR:3085:G:O4'	2.13	0.48
5:CE:16:PHE:HB2	5:CE:19:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:17:GLN:NE2	22:CV:22:HIS:O	2.46	0.48
7:CG:88:ILE:HG12	7:CG:240:TYR:CE1	2.48	0.48
8:CH:52:VAL:HG11	8:CH:65:ILE:HD13	1.95	0.48
10:CJ:238:LEU:HD13	10:CJ:243:GLN:OE1	2.13	0.48
11:CK:87:LYS:HB2	11:CK:187:ILE:HG12	1.96	0.48
26:CZ:103:TYR:HE2	26:CZ:139:ILE:HG13	1.78	0.48
27:DA:51:ARG:HG2	27:DA:115:ARG:NH1	2.28	0.48
31:DE:39:SER:OG	31:DE:91:SER:OG	2.24	0.48
43:DQ:74:CYS:O	43:DQ:78:LYS:HA	2.13	0.48
47:A:116:U:H2'	47:A:117:U:C6	2.48	0.48
47:A:312:A:C2	47:A:314:C:H2'	2.49	0.48
47:A:341:A:H2'	47:A:342:C:C6	2.48	0.48
47:A:872:G:H2'	47:A:873:U:O4'	2.13	0.48
47:A:881:A:OP2	81:A:1961:OHX:N4	2.46	0.48
47:A:973:A:H2'	47:A:974:A:H8	1.78	0.48
47:A:1572:G:H1'	53:G:185:ARG:NH2	2.28	0.48
48:B:71:GLU:HA	48:B:94:GLY:C	2.38	0.48
53:G:97:LEU:HA	53:G:180:ARG:HH22	1.78	0.48
60:N:46:ARG:HA	60:N:49:THR:OG1	2.13	0.48
60:N:103:LEU:HD21	60:N:116:VAL:N	2.29	0.48
62:P:106:ALA:HB1	74:b:53:LEU:HA	1.96	0.48
64:R:94:GLN:NE2	64:R:94:GLN:HA	2.27	0.48
80:h:89:LEU:HB2	80:h:103:PHE:HB2	1.95	0.48
47:sR:380:U:O3'	57:s9:2:PRO:HA	2.13	0.48
47:sR:800:U:H2'	47:sR:801:G:C8	2.45	0.48
47:sR:871:G:O2'	75:d7:67:THR:O	2.27	0.48
47:sR:1542:G:N2	47:sR:1568:C:H1'	2.29	0.48
49:s1:99:ASN:OD1	49:s1:100:PHE:N	2.46	0.48
50:s2:142:GLY:N	50:s2:153:SER:O	2.21	0.48
52:s4:118:GLU:HA	52:s4:121:TYR:CE1	2.48	0.48
53:s5:136:ALA:HA	53:s5:202:ALA:CA	2.43	0.48
54:s6:164:LYS:HD3	54:s6:164:LYS:C	2.38	0.48
59:c1:96:LYS:HD3	59:c1:97:TYR:CE2	2.49	0.48
64:c6:125:GLU:OE1	64:c6:135:ARG:NH2	2.46	0.48
68:d0:82:TYR:OH	77:d9:44:ARG:HG2	2.13	0.48
69:d1:9:VAL:O	69:d1:10:GLU:HB2	2.14	0.48
76:d8:42:ARG:HH12	76:d8:61:ARG:HH12	1.61	0.48
1:1:1100:U:OP2	9:o:196:LYS:HE3	2.13	0.48
1:1:1949:G:H2'	1:1:1950:U:H6	1.78	0.48
1:1:3000:A:H2'	1:1:3001:C:H6	1.78	0.48
1:1:3316:A:OP1	1:1:3318:G:N2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3358:U:H2'	1:1:3359:A:O4'	2.11	0.48
3:4:79:A:H3'	3:4:80:A:H4'	1.95	0.48
5:k:81:THR:OG1	5:k:205:VAL:HG21	2.12	0.48
38:AK:24:ARG:HG2	38:AK:26:SER:OG	2.13	0.48
1:AR:191:U:H2'	1:AR:192:C:C6	2.46	0.48
1:AR:1626:U:H2'	1:AR:1627:U:C6	2.48	0.48
1:AR:3162:C:H2'	1:AR:3163:A:H8	1.78	0.48
1:AR:3242:G:H5'	1:AR:3245:A:N3	2.28	0.48
5:CE:139:GLN:HG3	5:CE:141:GLY:N	2.17	0.48
11:CK:104:VAL:O	11:CK:111:PHE:N	2.44	0.48
43:DQ:11:TYR:CE1	43:DQ:13:LYS:HB3	2.48	0.48
45:sM:69:ARG:HH11	45:sM:73:SER:HA	1.78	0.48
47:A:102:U:O4	47:A:360:A:H2'	2.13	0.48
47:A:1401:A:O3'	65:S:10:LYS:NZ	2.46	0.48
47:A:1523:G:C8	67:U:79:LEU:HD13	2.48	0.48
47:A:1615:C:P	76:d:47:PRO:HB3	2.54	0.48
47:A:1756:A:C2	47:A:1757:G:C8	3.01	0.48
49:C:32:ILE:HA	49:C:96:LEU:O	2.13	0.48
51:E:40:ARG:NH2	68:V:110:PRO:HD3	2.18	0.48
53:G:216:GLU:HG3	53:G:219:ARG:HE	1.78	0.48
59:M:22:ASN:OD1	59:M:24:LYS:N	2.44	0.48
66:T:35:ILE:HB	66:T:38:VAL:HG11	1.96	0.48
67:U:89:ARG:HB3	67:U:90:PRO:HD2	1.96	0.48
74:b:90:GLU:HA	74:b:93:LYS:HD2	1.96	0.48
75:c:8:LEU:H	75:c:8:LEU:HD12	1.78	0.48
79:g:144:CYS:HB3	79:g:147:VAL:HG12	1.96	0.48
80:h:248:ASN:OD1	80:h:248:ASN:N	2.46	0.48
47:sR:140:A:H1'	54:s6:179:VAL:HG11	1.95	0.48
47:sR:817:A:C1'	55:s7:110:GLN:NE2	2.77	0.48
47:sR:1435:G:H4'	47:sR:1436:A:H5'	1.95	0.48
47:sR:1490:C:O5'	51:s3:9:ARG:NH2	2.47	0.48
80:Rb:187:GLN:HE21	51:s3:225:TYR:HD2	1.61	0.48
80:Rb:239:GLU:HG3	80:Rb:241:PHE:CZ	2.48	0.48
48:s0:167:LYS:O	48:s0:169:SER:N	2.47	0.48
51:s3:209:ILE:HG12	65:c7:38:ILE:O	2.13	0.48
54:s6:67:VAL:HG23	54:s6:68:LEU:H	1.78	0.48
57:s9:113:VAL:HG21	57:s9:134:ILE:HG12	1.95	0.48
65:c7:61:ILE:HG23	65:c7:62:GLN:OE1	2.14	0.48
67:c9:116:ILE:HD12	67:c9:116:ILE:H	1.78	0.48
68:d0:43:LYS:HA	68:d0:46:GLU:H	1.78	0.48
71:d3:24:TRP:CE3	71:d3:30:LYS:HG3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:d3:62:LYS:HG3	71:d3:118:PRO:HG3	1.94	0.48
72:d4:81:GLU:O	72:d4:85:PHE:HB2	2.14	0.48
76:d8:15:VAL:O	76:d8:15:VAL:HG23	2.14	0.48
1:1:259:C:H2'	1:1:260:C:C6	2.49	0.48
1:1:1592:G:OP2	35:AH:37:LYS:NZ	2.43	0.48
1:1:2298:U:O4	1:1:2923:U:H5	1.95	0.48
1:1:2534:G:H1	1:1:2545:C:H42	1.62	0.48
1:1:3214:U:C4	15:u:121:MET:HG3	2.48	0.48
1:1:3370:A:H2'	1:1:3371:G:C8	2.49	0.48
2:3:106:U:H2'	2:3:107:C:C6	2.49	0.48
9:o:152:GLY:O	9:o:163:LEU:HG	2.13	0.48
13:s:13:LYS:HG3	13:s:14:ILE:N	2.28	0.48
13:s:80:LEU:HG	13:s:84:LEU:HD21	1.95	0.48
23:5:35:LYS:NZ	23:5:39:ASP:HB2	2.28	0.48
30:AC:28:LYS:HG2	30:AC:29:TYR:HD1	1.77	0.48
31:AD:18:ILE:HD12	31:AD:23:TYR:CE2	2.49	0.48
35:AH:85:VAL:O	35:AH:89:ILE:HG13	2.13	0.48
1:AR:7:C:H2'	1:AR:8:C:C6	2.48	0.48
1:AR:132:C:H2'	1:AR:133:U:H5''	1.94	0.48
1:AR:1415:U:O4	81:AR:3639:OHX:N1	2.46	0.48
1:AR:1485:G:N2	35:DI:4:ARG:HD2	2.28	0.48
1:AR:1631:C:H5''	1:AR:1632:A:H5''	1.94	0.48
1:AR:2160:G:H2'	1:AR:2161:G:H8	1.78	0.48
1:AR:2181:C:H5''	4:CD:193:ARG:CZ	2.44	0.48
1:AR:2407:C:H1'	1:AR:2818:U:C2	2.48	0.48
1:AR:2434:U:H4'	1:AR:2435:G:O5'	2.14	0.48
1:AR:2514:U:OP1	10:CJ:68:ARG:HD2	2.14	0.48
1:AR:3016:A:OP2	81:AR:3621:OHX:N1	2.47	0.48
1:AR:3074:G:O6	81:AR:3603:OHX:N4	2.47	0.48
5:CE:68:HIS:CD2	5:CE:69:LYS:HG3	2.48	0.48
6:CF:359:LEU:HA	21:CU:8:GLN:OE1	2.14	0.48
7:CG:293:LEU:HD22	81:CG:302:OHX:N6	2.29	0.48
12:CL:50:VAL:HG23	12:CL:167:LEU:HA	1.95	0.48
18:CR:88:VAL:O	18:CR:92:GLN:HG2	2.14	0.48
28:DB:136:PHE:O	35:DI:76:TYR:OH	2.27	0.48
29:DC:135:GLU:O	29:DC:135:GLU:HG2	2.06	0.48
43:DQ:104:LEU:HD23	43:DQ:104:LEU:H	1.77	0.48
44:DR:84:ARG:HA	44:DR:87:ARG:HG2	1.96	0.48
47:A:97:C:H2'	47:A:98:U:H6	1.76	0.48
47:A:397:A:O3'	56:J:50:GLY:HA2	2.14	0.48
47:A:420:A:OP1	54:H:96:SER:OG	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1086:A:H2'	47:A:1087:A:C8	2.49	0.48
50:D:179:VAL:O	50:D:198:THR:OG1	2.30	0.48
53:G:46:TRP:CZ3	53:G:118:LEU:HG	2.48	0.48
53:G:212:LYS:O	53:G:216:GLU:OE1	2.32	0.48
57:K:159:ALA:HB3	57:K:162:SER:HB3	1.96	0.48
62:P:80:HIS:ND1	62:P:113:GLY:HA3	2.28	0.48
65:S:44:LYS:NZ	65:S:44:LYS:HB3	2.28	0.48
67:U:34:VAL:O	67:U:34:VAL:HG13	2.13	0.48
69:W:16:LYS:HZ2	69:W:21:ASN:HD22	1.58	0.48
71:Y:113:ALA:HB2	71:Y:121:ARG:HG3	1.96	0.48
80:h:14:GLU:O	80:h:45:TRP:HH2	1.96	0.48
47:sR:817:A:C1'	55:s7:110:GLN:HE22	2.25	0.48
47:sR:820:U:O2'	47:sR:821:U:H5''	2.13	0.48
47:sR:986:G:OP2	81:sR:1974:OHX:N5	2.46	0.48
47:sR:1241:G:H2'	47:sR:1242:A:O4'	2.14	0.48
80:Rb:181:TRP:CZ3	80:Rb:188:ILE:HG12	2.48	0.48
48:s0:84:ARG:HD3	48:s0:203:PHE:O	2.14	0.48
52:s4:87:MET:HB3	52:s4:122:LYS:HB2	1.96	0.48
54:s6:68:LEU:HD13	54:s6:69:LEU:H	1.79	0.48
59:c1:57:LYS:HD3	59:c1:131:ILE:HG23	1.95	0.48
63:c5:68:PRO:HB2	63:c5:69:GLU:OE2	2.14	0.48
64:c6:25:GLY:O	64:c6:62:ASN:HA	2.14	0.48
73:d5:64:VAL:HA	73:d5:68:ARG:NH1	2.28	0.48
1:l:1603:A:N6	26:8:71:THR:HG21	2.22	0.48
1:l:1720:U:P	20:z:110:ARG:HH22	2.36	0.48
1:l:2423:U:H2'	1:l:2424:A:C8	2.48	0.48
1:l:2943:G:OP2	5:k:2:SER:HB3	2.13	0.48
3:4:85:G:H4'	3:4:86:U:OP1	2.13	0.48
5:k:41:VAL:HA	5:k:185:GLY:CA	2.43	0.48
6:l:140:HIS:CD2	6:l:247:PHE:H	2.31	0.48
11:q:92:TYR:HB3	11:q:99:ILE:CD1	2.44	0.48
1:AR:139:G:H2'	1:AR:140:C:H6	1.79	0.48
1:AR:675:C:O2'	1:AR:679:U:OP1	2.22	0.48
1:AR:715:A:H4'	1:AR:716:A:OP1	2.13	0.48
1:AR:778:U:O4	81:AR:3586:OHX:N4	2.46	0.48
1:AR:1639:C:P	35:DI:74:ARG:HH22	2.36	0.48
1:AR:2152:A:H2'	1:AR:2153:U:C6	2.47	0.48
1:AR:3232:G:H2'	1:AR:3233:C:C6	2.48	0.48
7:CG:31:TYR:O	7:CG:35:ARG:HD2	2.14	0.48
7:CG:206:GLN:O	7:CG:210:GLU:HG3	2.13	0.48
7:CG:234:ASP:N	7:CG:234:ASP:OD1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:19:ARG:HG2	15:CO:65:LEU:HD22	1.95	0.48
21:CU:110:MET:HB3	21:CU:116:ALA:HB3	1.96	0.48
23:CW:38:ILE:HG22	23:CW:56:VAL:CG1	2.44	0.48
27:DA:79:ALA:HB1	27:DA:98:ASN:HB3	1.96	0.48
28:DB:27:LYS:HB3	28:DB:29:HIS:HE1	1.77	0.48
36:DJ:5:LYS:O	36:DJ:9:LEU:HD12	2.13	0.48
36:DJ:63:ARG:O	36:DJ:66:VAL:HG22	2.14	0.48
44:DR:38:ASP:OD1	44:DR:45:LYS:HG3	2.14	0.48
47:A:178:U:O4	54:H:191:ARG:HD3	2.14	0.48
47:A:471:A:N7	81:A:2123:OHX:N6	2.61	0.48
47:A:603:U:H2'	47:A:604:A:C8	2.48	0.48
47:A:739:G:H2'	47:A:740:A:C8	2.48	0.48
47:A:1107:G:O2'	47:A:1108:G:H5'	2.14	0.48
47:A:1534:G:OP2	73:a:74:SER:HB2	2.14	0.48
50:D:42:GLY:CA	50:D:68:ILE:HD11	2.42	0.48
50:D:98:PHE:O	50:D:117:THR:HA	2.12	0.48
52:F:131:LEU:HA	52:F:137:PRO:HA	1.96	0.48
57:K:13:SER:OG	57:K:14:THR:N	2.46	0.48
58:L:5:LYS:O	58:L:8:ARG:HB3	2.14	0.48
62:P:89:THR:HG21	62:P:126:THR:OG1	2.14	0.48
73:a:88:ILE:O	73:a:104:ALA:HB2	2.14	0.48
75:c:80:ARG:HB2	75:c:80:ARG:HH11	1.79	0.48
47:sR:138:A:H61	47:sR:266:A:H61	1.60	0.48
47:sR:151:G:H22	47:sR:163:G:H1	1.60	0.48
47:sR:482:U:H2'	47:sR:483:A:C8	2.49	0.48
47:sR:906:A:H2'	47:sR:907:A:H8	1.78	0.48
47:sR:1708:U:H2'	47:sR:1709:C:C6	2.48	0.48
47:sR:1712:A:H4'	47:sR:1712:A:OP1	2.13	0.48
80:Rb:5:GLU:HB3	80:Rb:316:MET:O	2.14	0.48
80:Rb:80:ALA:C	80:Rb:81:LEU:HD23	2.38	0.48
48:s0:83:GLN:O	48:s0:84:ARG:C	2.56	0.48
48:s0:106:SER:O	48:s0:115:PHE:HD1	1.97	0.48
50:s2:54:GLU:OE2	50:s2:110:HIS:NE2	2.43	0.48
50:s2:67:GLN:OE1	50:s2:67:GLN:N	2.28	0.48
50:s2:130:ILE:HG22	50:s2:131:ILE:HD13	1.95	0.48
52:s4:95:THR:HG23	52:s4:97:GLU:HG2	1.96	0.48
54:s6:67:VAL:HG23	54:s6:68:LEU:N	2.29	0.48
57:s9:84:GLY:C	57:s9:107:ARG:HH12	2.22	0.48
58:c0:30:ALA:O	58:c0:31:LYS:HG2	2.14	0.48
66:c8:12:GLN:N	66:c8:59:GLY:O	2.44	0.48
66:c8:67:GLU:O	66:c8:71:GLN:NE2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:d2:104:LEU:HD22	70:d2:125:ILE:HA	1.95	0.48
72:d4:76:TYR:HB2	72:d4:82:ALA:HB2	1.96	0.48
73:d5:80:LEU:HD23	73:d5:101:TYR:HD2	1.78	0.48
1:1:1249:G:H2'	1:1:1250:G:H8	1.78	0.48
1:1:1427:U:H2'	1:1:1428:A:C8	2.49	0.48
1:1:1535:A:OP1	81:1:3409:OHX:N4	2.47	0.48
1:1:1546:A:N7	16:v:71:ARG:NH1	2.61	0.48
1:1:1601:U:P	20:z:42:ARG:HH22	2.37	0.48
1:1:2217:U:H2'	1:1:2218:G:C8	2.48	0.48
1:1:2426:U:H2'	1:1:2427:U:C6	2.49	0.48
1:1:2772:C:P	43:AP:15:LYS:HZ1	2.36	0.48
6:l:16:THR:HG22	6:l:17:ALA:H	1.77	0.48
7:m:244:HIS:O	7:m:248:ARG:HG3	2.14	0.48
8:n:31:ARG:NH1	8:n:81:ALA:O	2.47	0.48
9:o:53:LYS:O	9:o:57:THR:OG1	2.27	0.48
9:o:93:ASN:OD1	9:o:93:ASN:N	2.46	0.48
14:t:128:ARG:NH2	36:AI:109:ILE:O	2.47	0.48
19:y:87:VAL:O	19:y:107:THR:HG23	2.13	0.48
24:6:13:ILE:HG13	24:6:85:TRP:CD1	2.49	0.48
27:9:56:VAL:HG22	27:9:104:LEU:HB3	1.96	0.48
32:AE:72:ARG:HG2	32:AE:96:VAL:CG1	2.44	0.48
1:AR:70:A:N1	1:AR:313:A:O2'	2.42	0.48
1:AR:251:G:H4'	1:AR:252:U:OP1	2.13	0.48
1:AR:291:C:H2'	1:AR:292:U:C6	2.49	0.48
1:AR:359:U:H4'	1:AR:817:A:N6	2.29	0.48
1:AR:664:U:H5'	6:CF:107:ARG:HA	1.95	0.48
1:AR:1033:U:H2'	1:AR:1034:U:O4'	2.14	0.48
1:AR:1104:G:H2'	1:AR:1105:A:H8	1.79	0.48
1:AR:2396:G:OP1	1:AR:2397:A:H4'	2.13	0.48
1:AR:2713:U:H3'	43:DQ:9:LYS:O	2.13	0.48
1:AR:2773:C:H2'	1:AR:2774:C:C6	2.48	0.48
1:AR:2780:A:H2'	1:AR:2781:U:C6	2.49	0.48
1:AR:2812:C:H2'	1:AR:2813:A:C8	2.48	0.48
1:AR:3166:C:H42	1:AR:3284:G:H1	1.61	0.48
1:AR:3180:A:H5'	17:CQ:116:LYS:HB2	1.96	0.48
1:AR:3182:G:H4'	17:CQ:161:LYS:HD3	1.96	0.48
6:CF:324:LEU:O	6:CF:327:LEU:O	2.32	0.48
15:CO:66:THR:CG2	15:CO:68:LEU:H	2.26	0.48
18:CR:126:ARG:HA	18:CR:140:GLU:HG2	1.96	0.48
45:sM:48:ARG:HG3	45:sM:49:LYS:N	2.27	0.48
47:A:329:G:H2'	47:A:330:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:595:G:OP2	81:A:2123:OHX:N5	2.47	0.48
47:A:1352:G:H2'	47:A:1353:U:O4'	2.14	0.48
52:F:158:ASP:HB3	52:F:173:ILE:O	2.14	0.48
53:G:116:HIS:O	53:G:120:ILE:HD12	2.13	0.48
53:G:118:LEU:HD12	53:G:129:PRO:HB2	1.95	0.48
55:I:9:LEU:CD1	55:I:17:GLU:HB3	2.39	0.48
60:N:63:VAL:HG21	60:N:94:ALA:CA	2.44	0.48
61:O:129:TYR:CD1	61:O:134:VAL:HG21	2.49	0.48
63:Q:14:THR:HG22	63:Q:22:LEU:HB3	1.93	0.48
80:h:299:GLN:HA	80:h:315:VAL:HG12	1.96	0.48
47:sR:872:G:H2'	47:sR:873:U:O4'	2.12	0.48
49:s1:87:ARG:NH1	49:s1:89:ASP:OD2	2.47	0.48
57:s9:118:LEU:HB3	57:s9:158:PHE:CE1	2.49	0.48
61:c3:92:ILE:O	61:c3:96:VAL:HG13	2.13	0.48
67:c9:14:PHE:CD1	67:c9:14:PHE:C	2.92	0.48
68:d0:57:ARG:HG2	68:d0:89:ARG:CD	2.44	0.48
70:d2:18:GLU:HG2	70:d2:65:LEU:HD22	1.94	0.48
70:d2:50:PHE:HB3	70:d2:63:VAL:HB	1.95	0.48
71:d3:6:PRO:HG3	71:d3:14:LYS:HD2	1.95	0.48
74:d6:64:LEU:HD12	74:d6:64:LEU:O	2.14	0.48
1:1:1301:A:H4'	1:1:1302:A:O5'	2.13	0.48
1:1:1916:U:H2'	1:1:1917:C:C6	2.49	0.48
1:1:2442:G:H2'	1:1:2443:A:H5'	1.95	0.48
1:1:2722:U:O2'	22:2:88:ARG:O	2.29	0.48
1:1:3084:C:H2'	1:1:3085:G:O4'	2.14	0.48
1:1:3095:U:H2'	1:1:3096:C:H6	1.78	0.48
1:1:3146:G:O2'	5:k:100:ARG:NH1	2.45	0.48
1:1:3268:A:O2'	8:n:130:ILE:HD11	2.13	0.48
1:1:3384:U:H2'	1:1:3385:U:C6	2.48	0.48
81:1:4071:OHX:N4	8:n:29:LYS:O	2.47	0.48
5:k:188:ILE:O	5:k:192:VAL:HG12	2.13	0.48
5:k:211:GLN:C	5:k:212:ASN:HD22	2.22	0.48
9:o:234:GLU:N	9:o:234:GLU:OE2	2.46	0.48
12:r:47:PRO:HD2	12:r:141:LYS:HA	1.96	0.48
12:r:66:GLU:O	12:r:70:ILE:HG23	2.13	0.48
23:5:23:THR:HG21	23:5:30:PRO:HG3	1.95	0.48
36:AI:21:LEU:O	36:AI:25:LYS:HG3	2.14	0.48
37:AJ:34:SER:O	37:AJ:37:THR:N	2.44	0.48
37:AJ:94:ILE:HG13	37:AJ:95:ALA:H	1.78	0.48
1:AR:63:A:H2'	1:AR:64:G:C8	2.48	0.48
1:AR:406:G:H1'	3:AT:16:G:N2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:501:A:H2'	1:AR:502:U:C6	2.49	0.48
1:AR:531:G:H2'	1:AR:532:A:C8	2.49	0.48
1:AR:563:U:OP1	21:CU:71:LYS:NZ	2.44	0.48
1:AR:860:G:OP1	44:DR:17:ARG:NH1	2.47	0.48
1:AR:996:A:H2'	1:AR:997:A:O4'	2.14	0.48
1:AR:2355:G:H4'	18:CR:139:TYR:CE1	2.48	0.48
1:AR:2726:C:O2'	1:AR:2727:A:H2'	2.14	0.48
4:CD:70:ARG:HD2	4:CD:72:ARG:HG3	1.95	0.48
10:CJ:134:TYR:CG	10:CJ:190:VAL:HG11	2.49	0.48
38:DL:22:CYS:SG	38:DL:24:ARG:HB2	2.54	0.48
47:A:53:G:H2'	47:A:54:C:H6	1.79	0.48
47:A:346:G:O6	81:A:2129:OHX:N3	2.46	0.48
47:A:707:A:C2	47:A:731:C:H2'	2.49	0.48
47:A:822:U:H2'	47:A:823:G:H5''	1.95	0.48
47:A:871:G:H2'	47:A:872:G:C8	2.48	0.48
47:A:915:A:H5'	47:A:916:U:OP2	2.13	0.48
47:A:1235:C:C4'	79:g:146:SER:HB2	2.44	0.48
47:A:1545:A:OP2	66:T:134:ARG:HG3	2.14	0.48
50:D:237:VAL:CG2	69:W:35:ASN:HD21	2.24	0.48
50:D:242:ILE:HG22	50:D:243:TYR:CD1	2.48	0.48
52:F:246:LEU:HD12	52:F:250:GLU:HB3	1.96	0.48
57:K:101:VAL:HG22	57:K:105:LEU:CD1	2.43	0.48
57:K:135:ALA:HB2	57:K:140:ILE:HA	1.96	0.48
62:P:88:GLY:H	62:P:120:PRO:HG2	1.79	0.48
63:Q:93:VAL:HA	63:Q:105:VAL:O	2.14	0.48
65:S:28:PHE:HA	65:S:55:THR:HG21	1.96	0.48
67:U:58:ALA:C	67:U:61:VAL:HG12	2.39	0.48
68:V:68:ARG:HH12	68:V:70:THR:CG2	2.27	0.48
72:Z:131:ARG:O	72:Z:131:ARG:HG2	2.13	0.48
73:a:66:VAL:HG22	73:a:71:ILE:O	2.14	0.48
80:h:87:LYS:HB3	80:h:106:HIS:O	2.14	0.48
80:h:155:ARG:HB2	80:h:170:ILE:CD1	2.44	0.48
47:sR:25:C:H1'	47:sR:26:A:OP2	2.14	0.48
47:sR:82:U:H2'	47:sR:83:G:O4'	2.14	0.48
47:sR:151:G:N2	47:sR:163:G:N2	2.62	0.48
47:sR:472:U:H5''	57:s9:11:THR:HG23	1.96	0.48
47:sR:1114:G:O6	81:sR:1969:OHX:N6	2.47	0.48
47:sR:1381:U:H1'	47:sR:1516:A:N6	2.29	0.48
47:sR:1797:A:N6	74:d6:84:VAL:HB	2.29	0.48
48:s0:24:LEU:HD23	48:s0:163:ASN:HD21	1.78	0.48
48:s0:110:TYR:CD1	48:s0:111:ILE:N	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:35:PRO:CB	49:s1:231:LEU:HD21	2.43	0.48
49:s1:108:ASP:CG	74:d6:65:PRO:HB3	2.38	0.48
51:s3:170:THR:HG21	51:s3:187:LYS:HE2	1.95	0.48
53:s5:42:LEU:HD13	53:s5:47:SER:HA	1.96	0.48
59:c1:55:ASP:OD2	59:c1:58:CYS:HB2	2.13	0.48
61:c3:30:SER:O	61:c3:33:VAL:HG22	2.14	0.48
62:c4:47:LYS:HD2	62:c4:62:LEU:HB3	1.95	0.48
64:c6:44:LEU:O	64:c6:47:LYS:N	2.47	0.48
65:c7:80:ARG:HH11	65:c7:83:GLN:NE2	2.11	0.48
67:c9:92:LYS:HE3	67:c9:94:ILE:HD11	1.96	0.48
67:c9:127:ASN:OD1	67:c9:130:ARG:NH2	2.46	0.48
1:1:45:A:P	16:v:85:THR:HG21	2.53	0.48
1:1:372:A:H2'	1:1:373:A:C8	2.49	0.48
1:1:386:A:H2'	1:1:387:A:O4'	2.14	0.48
1:1:769:G:OP1	14:t:175:SER:HB2	2.14	0.48
1:1:1110:U:O4	81:1:3487:OHX:N2	2.47	0.48
1:1:2565:U:H2'	1:1:2566:C:C6	2.48	0.48
1:1:3050:U:OP2	81:1:4134:OHX:N3	2.47	0.48
81:1:3599:OHX:N6	40:AM:50:ASN:OD1	2.47	0.48
12:r:19:LYS:HD2	12:r:26:VAL:HB	1.95	0.48
15:u:17:VAL:HG22	15:u:36:VAL:O	2.14	0.48
22:2:17:ARG:HB3	22:2:22:HIS:CE1	2.49	0.48
26:8:105:VAL:HG12	26:8:130:TYR:CD2	2.49	0.48
28:AA:26:VAL:HG22	28:AA:42:LEU:O	2.14	0.48
44:AQ:44:LYS:HD2	44:AQ:45:LYS:N	2.28	0.48
1:AR:200:C:OP1	27:DA:60:ARG:HD3	2.14	0.48
1:AR:313:A:H2'	1:AR:314:U:C6	2.49	0.48
1:AR:402:A:OP1	40:DN:36:ARG:NH2	2.46	0.48
1:AR:848:A:H2'	1:AR:849:C:O4'	2.13	0.48
1:AR:1225:A:H2'	1:AR:1226:G:C8	2.49	0.48
1:AR:1304:A:N6	1:AR:2860:U:OP1	2.47	0.48
1:AR:1699:A:H2'	1:AR:1700:G:H8	1.78	0.48
1:AR:1733:G:OP2	81:AR:3469:OHX:N6	2.47	0.48
1:AR:1806:A:OP2	81:AR:3524:OHX:N3	2.47	0.48
1:AR:3049:A:C2	5:CE:75:ALA:HB2	2.48	0.48
1:AR:3155:U:H3'	1:AR:3156:U:H4'	1.95	0.48
4:CD:105:GLY:CA	4:CD:160:SER:HB3	2.44	0.48
7:CG:111:GLN:CA	7:CG:116:ASP:HB3	2.43	0.48
10:CJ:196:ALA:O	10:CJ:197:VAL:HG23	2.14	0.48
12:CL:38:LYS:HD3	12:CL:41:ALA:HB2	1.94	0.48
12:CL:38:LYS:NZ	12:CL:45:GLU:OE1	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:132:ALA:O	14:CN:134:GLU:N	2.47	0.48
14:CN:168:ARG:NE	14:CN:172:LEU:HD11	2.29	0.48
24:CX:2:SER:N	24:CX:57:MET:H	2.12	0.48
28:DB:58:GLY:HA3	28:DB:61:LYS:HZ3	1.78	0.48
39:DM:64:LYS:HD3	39:DM:64:LYS:C	2.39	0.48
47:A:66:U:O2	54:H:160:ARG:HD3	2.13	0.48
47:A:525:A:H2'	47:A:526:A:C8	2.49	0.48
47:A:1097:U:O3'	50:D:159:THR:HG21	2.14	0.48
47:A:1217:A:H4'	58:L:44:LYS:HD2	1.95	0.48
47:A:1317:C:H2'	47:A:1318:G:O4'	2.13	0.48
47:A:1486:G:H1'	47:A:1592:A:O2'	2.14	0.48
47:A:1662:G:O6	81:A:1909:OHX:N1	2.47	0.48
48:B:85:ALA:HA	48:B:202:TYR:HD1	1.78	0.48
50:D:214:ALA:O	50:D:217:ALA:HB3	2.14	0.48
50:D:238:SER:HB2	50:D:239:PRO:CD	2.43	0.48
52:F:163:ASP:OD2	52:F:165:ALA:HB3	2.14	0.48
53:G:56:ALA:O	53:G:59:VAL:HG23	2.13	0.48
55:I:49:ILE:HG13	55:I:57:ALA:O	2.14	0.48
56:J:88:ASN:HD22	56:J:88:ASN:H	1.62	0.48
58:L:17:GLN:CG	58:L:18:GLU:HG2	2.44	0.48
60:N:137:MET:HE2	60:N:137:MET:H	1.79	0.48
63:Q:52:LYS:HB3	63:Q:53:PRO:HD3	1.95	0.48
66:T:36:LYS:HB2	66:T:102:ALA:CA	2.38	0.48
66:T:47:CYS:HB3	66:T:54:LEU:HD22	1.94	0.48
68:V:61:LYS:HB2	68:V:86:ILE:HB	1.94	0.48
70:X:57:ARG:NH1	75:c:26:GLN:OE1	2.47	0.48
70:X:73:GLY:HA3	70:X:128:PHE:CE1	2.49	0.48
71:Y:87:VAL:HG11	71:Y:92:CYS:O	2.13	0.48
74:b:10:ARG:HH12	74:b:35:ALA:C	2.21	0.48
76:d:42:ARG:HG3	76:d:43:ASN:N	2.28	0.48
80:h:153:GLN:H	80:h:172:ALA:HB3	1.79	0.48
47:sR:163:G:H4'	54:s6:53:SER:HB2	1.95	0.48
47:sR:721:U:O2'	47:sR:722:G:O4'	2.31	0.48
47:sR:1366:U:H5'	64:c6:30:LYS:NZ	2.28	0.48
47:sR:1648:A:H2'	47:sR:1649:G:C8	2.48	0.48
47:sR:1648:A:H2'	47:sR:1649:G:H8	1.78	0.48
47:sR:1776:A:H2'	47:sR:1777:G:H8	1.78	0.48
80:Rb:115:ILE:HG23	80:Rb:122:ILE:HD12	1.96	0.48
80:Rb:175:ASP:C	80:Rb:176:LYS:HD2	2.38	0.48
80:Rb:203:THR:HG23	80:Rb:245:PHE:CD2	2.49	0.48
48:s0:70:PRO:O	48:s0:95:ALA:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s6:73:ILE:HD12	54:s6:75:LEU:CD1	2.44	0.48
65:c7:40:THR:C	65:c7:41:ILE:HD12	2.39	0.48
76:d8:12:VAL:HA	76:d8:30:VAL:HG12	1.96	0.48
1:1:792:G:H2'	1:1:793:C:H6	1.76	0.47
1:1:2219:A:H2'	1:1:2220:A:H8	1.77	0.47
1:1:2535:A:N6	1:1:2545:C:N3	2.62	0.47
1:1:3017:A:H2'	1:1:3018:C:H6	1.79	0.47
1:1:3318:G:H2'	1:1:3318:G:OP2	2.14	0.47
4:j:27:ALA:O	4:j:128:ARG:NH2	2.46	0.47
5:k:362:ALA:O	5:k:364:LYS:HD3	2.13	0.47
10:p:111:LYS:NZ	10:p:111:LYS:HB3	2.29	0.47
39:AL:66:ILE:HD13	39:AL:77:ARG:HH22	1.79	0.47
1:AR:551:A:HO2'	1:AR:552:G:H8	1.58	0.47
1:AR:1807:G:C6	1:AR:1808:G:N1	2.82	0.47
1:AR:2217:U:H2'	1:AR:2218:G:H8	1.78	0.47
1:AR:3228:C:O3'	15:CO:137:LYS:NZ	2.46	0.47
6:CF:84:ARG:O	6:CF:87:GLN:HG3	2.14	0.47
9:CI:156:ILE:HD13	9:CI:168:ILE:HD11	1.96	0.47
9:CI:165:ASP:O	9:CI:168:ILE:HG22	2.14	0.47
27:DA:55:GLU:HG3	27:DA:108:LYS:HB3	1.95	0.47
29:DC:75:LEU:HD11	29:DC:134:ALA:O	2.14	0.47
32:DF:25:PHE:HD1	32:DF:28:ARG:HD2	1.79	0.47
36:DJ:49:LYS:HD3	36:DJ:49:LYS:HA	1.55	0.47
47:A:30:G:O3'	71:Y:131:SER:OG	2.32	0.47
47:A:78:A:H4'	54:H:159:ARG:HH12	1.79	0.47
47:A:291:G:H2'	47:A:292:U:C6	2.48	0.47
47:A:438:A:H1'	47:A:466:U:O2	2.14	0.47
47:A:868:G:C2	47:A:869:A:C8	3.02	0.47
47:A:1291:G:H5'	50:D:119:LYS:CE	2.44	0.47
47:A:1360:A:C2	47:A:1364:G:C6	3.02	0.47
47:A:1553:G:N2	47:A:1555:A:H3'	2.28	0.47
55:I:15:GLU:N	55:I:15:GLU:OE1	2.47	0.47
57:K:17:ARG:O	57:K:23:ARG:NH1	2.46	0.47
57:K:156:ILE:HD12	57:K:156:ILE:N	2.29	0.47
58:L:60:SER:O	58:L:61:TRP:HB2	2.14	0.47
63:Q:95:GLY:C	63:Q:102:PHE:HB3	2.39	0.47
64:R:136:SER:C	64:R:137:ARG:HD2	2.38	0.47
65:S:69:ILE:HG13	65:S:74:GLN:NE2	2.28	0.47
67:U:113:ILE:C	67:U:125:SER:HB3	2.38	0.47
70:X:106:THR:HG23	70:X:108:ALA:N	2.30	0.47
71:Y:52:ILE:O	71:Y:74:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:a:51:LEU:HB3	73:a:52:LYS:HD2	1.95	0.47
73:a:91:PRO:HB3	73:a:101:TYR:HE1	1.79	0.47
80:h:21:THR:C	80:h:291:SER:HB3	2.39	0.47
80:h:22:SER:C	80:h:71:CYS:SG	2.97	0.47
80:h:304:GLY:CA	80:h:310:ILE:HG22	2.43	0.47
47:sR:37:U:O2'	47:sR:770:A:N1	2.34	0.47
47:sR:492:A:H2'	47:sR:493:U:H5''	1.96	0.47
48:s0:14:ALA:HA	48:s0:17:LEU:HD12	1.95	0.47
52:s4:246:LEU:CD1	52:s4:254:ARG:HE	2.27	0.47
54:s6:115:LYS:HD3	54:s6:116:LYS:O	2.13	0.47
57:s9:84:GLY:CA	57:s9:107:ARG:HH12	2.27	0.47
57:s9:114:TYR:CD2	57:s9:115:LYS:HG2	2.48	0.47
67:c9:66:TYR:CD1	67:c9:66:TYR:C	2.92	0.47
68:d0:34:LEU:HA	68:d0:36:ASN:OD1	2.13	0.47
70:d2:15:ASN:HD21	70:d2:72:CYS:N	2.12	0.47
71:d3:44:GLY:H	71:d3:78:LYS:HZ2	1.61	0.47
1:l:976:U:OP1	19:y:144:ARG:NH2	2.47	0.47
1:l:1246:G:H2'	1:l:1247:U:O4'	2.14	0.47
1:l:1566:A:H2'	1:l:1573:G:O6	2.14	0.47
1:l:1573:G:N2	1:l:1574:C:O2'	2.48	0.47
1:l:1910:A:H2'	1:l:1911:A:C8	2.49	0.47
1:l:2144:A:H1'	1:l:2281:A:N6	2.28	0.47
1:l:2541:U:O2'	1:l:2542:U:OP2	2.29	0.47
1:l:3379:C:OP2	81:l:3432:OHX:N4	2.47	0.47
6:l:188:ARG:O	6:l:193:LYS:HE3	2.14	0.47
7:m:31:TYR:O	7:m:35:ARG:HD2	2.14	0.47
8:n:172:HIS:CD2	8:n:173:MET:HG2	2.49	0.47
10:p:184:ALA:O	10:p:188:THR:HG23	2.13	0.47
13:s:91:LEU:HD23	13:s:91:LEU:HA	1.60	0.47
14:t:153:ASP:CG	14:t:154:VAL:H	2.19	0.47
18:x:29:THR:HA	18:x:32:THR:CG2	2.44	0.47
22:2:82:ASN:OD1	22:2:82:ASN:N	2.47	0.47
24:6:32:ARG:HH11	24:6:32:ARG:HG3	1.79	0.47
43:AP:28:TYR:CE1	43:AP:30:ALA:HA	2.49	0.47
1:AR:120:G:C5	10:CJ:128:LYS:HD3	2.49	0.47
1:AR:860:G:O2'	1:AR:895:A:H4'	2.14	0.47
1:AR:1029:G:OP2	13:CM:174:LYS:HD2	2.14	0.47
1:AR:1682:U:O4	23:CW:90:ARG:NH1	2.47	0.47
1:AR:1767:C:H2'	1:AR:1768:U:C6	2.49	0.47
1:AR:1941:C:O2'	1:AR:3344:A:N6	2.44	0.47
1:AR:3075:G:O6	81:AR:3603:OHX:N6	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:88:A:H2'	3:AT:89:A:O4'	2.14	0.47
5:CE:59:ASP:OD1	5:CE:71:GLU:HG2	2.14	0.47
6:CF:75:PRO:HG2	6:CF:89:ALA:O	2.13	0.47
14:CN:109:PHE:CG	37:DK:20:MET:HE1	2.49	0.47
14:CN:119:TYR:O	14:CN:123:ILE:HG23	2.15	0.47
14:CN:122:LYS:HB3	14:CN:122:LYS:HE2	1.51	0.47
26:CZ:131:ASP:HB3	26:CZ:134:ASP:HB2	1.96	0.47
32:DF:53:PRO:O	32:DF:57:GLN:HG3	2.14	0.47
35:DI:16:ARG:HA	35:DI:19:LYS:HE2	1.95	0.47
47:A:53:G:H2'	47:A:54:C:C6	2.49	0.47
47:A:187:G:H4'	47:A:188:A:OP1	2.13	0.47
47:A:1354:G:H5'	47:A:1355:C:OP2	2.14	0.47
47:A:1579:U:H2'	47:A:1580:C:C6	2.49	0.47
48:B:79:ARG:NH1	48:B:164:ASN:HB2	2.28	0.47
49:C:27:LYS:CG	49:C:49:ASN:HA	2.44	0.47
50:D:58:LEU:O	69:W:15:ARG:NE	2.35	0.47
50:D:77:GLN:O	50:D:104:VAL:HA	2.14	0.47
51:E:92:GLN:OE1	51:E:92:GLN:N	2.40	0.47
56:J:168:CYS:HB2	56:J:184:LEU:HD21	1.96	0.47
61:O:5:HIS:HB3	61:O:117:LEU:HD12	1.95	0.47
62:P:48:VAL:CG2	62:P:53:ASP:HB2	2.44	0.47
66:T:41:ARG:HH12	67:U:46:PRO:HG3	1.79	0.47
67:U:117:SER:HB2	67:U:123:ARG:CB	2.44	0.47
68:V:20:ILE:CG1	68:V:95:ALA:H	2.28	0.47
74:b:79:ILE:HG23	74:b:84:VAL:HG11	1.95	0.47
80:h:158:PRO:O	80:h:208:GLY:HA3	2.15	0.47
47:sR:231:U:H2'	47:sR:232:U:H5''	1.96	0.47
47:sR:476:U:OP1	47:sR:477:A:O2'	2.29	0.47
47:sR:715:U:H2'	47:sR:716:C:H6	1.79	0.47
47:sR:1097:U:H6	50:s2:168:ARG:HD2	1.78	0.47
47:sR:1251:U:H4'	79:e1:134:ASN:H	1.78	0.47
48:s0:48:ILE:HD11	48:s0:161:PRO:HB2	1.96	0.47
51:s3:91:VAL:HG21	51:s3:94:ARG:HB3	1.96	0.47
52:s4:35:PRO:HB3	52:s4:143:ASP:O	2.14	0.47
56:s8:167:ALA:HB1	56:s8:182:TYR:O	2.14	0.47
69:d1:54:ALA:O	69:d1:55:LEU:HD23	2.14	0.47
1:1:402:A:OP1	40:AM:36:ARG:NH2	2.37	0.47
1:1:544:C:H1'	1:1:548:G:N2	2.25	0.47
1:1:1278:A:O2'	1:1:1279:C:C6	2.67	0.47
1:1:2125:A:OP2	81:1:3553:OHX:N4	2.47	0.47
1:1:2244:A:H5''	4:j:243:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3393:U:H2'	1:1:3394:U:C6	2.49	0.47
2:3:46:A:P	7:m:158:ARG:HH11	2.38	0.47
6:l:46:LYS:HG2	6:l:46:LYS:O	2.14	0.47
6:l:145:ILE:HD11	6:l:150:LEU:HD22	1.95	0.47
6:l:177:ASP:OD1	6:l:180:LYS:HE3	2.14	0.47
11:q:1:MET:HE1	21:0:139:TYR:N	2.30	0.47
23:5:35:LYS:HA	23:5:38:ILE:HD12	1.96	0.47
31:AD:75:ASN:ND2	44:AQ:43:GLY:O	2.46	0.47
38:AK:24:ARG:O	38:AK:24:ARG:HG3	2.14	0.47
45:i:117:LEU:HB2	50:D:121:VAL:HG21	1.95	0.47
1:AR:873:C:H5''	1:AR:874:U:O5'	2.14	0.47
1:AR:1595:U:C2	1:AR:1596:C:C5	3.01	0.47
1:AR:1614:C:H2'	1:AR:1615:C:H6	1.79	0.47
1:AR:1615:C:H2'	1:AR:1616:U:C6	2.49	0.47
1:AR:1813:A:OP1	81:AR:3662:OHX:N2	2.47	0.47
1:AR:2103:U:H2'	1:AR:2104:A:H8	1.79	0.47
1:AR:3047:U:O2'	5:CE:53:MET:HE1	2.15	0.47
1:AR:3371:G:H2'	1:AR:3372:A:H8	1.78	0.47
7:CG:155:THR:HA	7:CG:179:ARG:HA	1.95	0.47
7:CG:218:ARG:NH2	7:CG:221:GLU:OE1	2.30	0.47
15:CO:103:ILE:O	15:CO:107:GLU:HG3	2.14	0.47
16:CP:160:GLU:OE1	16:CP:160:GLU:N	2.37	0.47
17:CQ:187:GLU:O	17:CQ:187:GLU:HG3	2.13	0.47
20:CT:185:LEU:O	20:CT:189:ALA:HB2	2.14	0.47
22:CV:126:VAL:HG23	22:CV:127:GLN:H	1.79	0.47
33:DG:80:LYS:HD2	33:DG:80:LYS:N	2.26	0.47
35:DI:94:LEU:HD23	35:DI:94:LEU:HA	1.63	0.47
41:DO:97:ARG:HB2	41:DO:120:GLN:O	2.14	0.47
47:A:1526:A:N1	47:A:1608:U:O2'	2.46	0.47
49:C:83:LYS:HE3	49:C:105:PHE:O	2.15	0.47
49:C:138:PHE:HD2	49:C:214:LYS:HB2	1.79	0.47
55:I:63:PRO:HG2	55:I:66:SER:HB3	1.96	0.47
55:I:118:LEU:O	55:I:121:VAL:HG22	2.14	0.47
57:K:83:VAL:HG22	57:K:107:ARG:HG2	1.96	0.47
59:M:99:ARG:HH12	71:Y:7:ARG:HG3	1.80	0.47
62:P:19:ILE:HB	62:P:83:ILE:HG13	1.96	0.47
64:R:10:PHE:C	64:R:10:PHE:CD1	2.92	0.47
80:h:111:MET:HE3	80:h:111:MET:HA	1.96	0.47
47:sR:398:G:P	56:s8:47:ARG:HH22	2.36	0.47
47:sR:398:G:OP2	56:s8:47:ARG:NH2	2.46	0.47
80:Rb:80:ALA:O	80:Rb:81:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:Rb:149:ASP:HB2	80:Rb:175:ASP:N	2.29	0.47
80:Rb:224:ASN:HB3	80:Rb:231:MET:CE	2.40	0.47
54:s6:210:GLN:CD	54:s6:210:GLN:H	2.23	0.47
56:s8:38:ILE:HA	56:s8:60:ILE:O	2.14	0.47
57:s9:114:TYR:HD2	57:s9:115:LYS:HG2	1.79	0.47
67:c9:43:ASN:N	67:c9:43:ASN:HD22	2.11	0.47
69:d1:4:ASP:OD2	69:d1:5:LYS:NZ	2.45	0.47
74:d6:10:ARG:CB	74:d6:34:LYS:HA	2.45	0.47
75:d7:56:CYS:HB3	75:d7:59:CYS:CB	2.29	0.47
1:1:701:G:H2'	1:1:702:C:C6	2.49	0.47
1:1:1221:A:H3'	1:1:1222:G:C5'	2.43	0.47
1:1:1618:G:H4'	3:4:129:C:C1'	2.44	0.47
1:1:1765:U:H5'	20:z:43:LYS:HZ2	1.79	0.47
1:1:1796:G:H5''	1:1:1797:A:OP1	2.14	0.47
1:1:2413:A:H2'	1:1:2414:G:C8	2.49	0.47
1:1:3288:G:N3	1:1:3289:G:C8	2.82	0.47
3:4:45:C:H2'	3:4:46:G:O4'	2.15	0.47
4:j:130:SER:HA	4:j:169:ILE:HG22	1.97	0.47
6:l:44:LYS:O	6:l:47:ARG:HG3	2.13	0.47
7:m:52:VAL:CG1	7:m:63:GLN:HB2	2.43	0.47
7:m:166:ALA:HB1	7:m:171:LEU:HD12	1.96	0.47
10:p:24:ASN:HB3	10:p:25:PRO:CD	2.43	0.47
13:s:40:LEU:HD23	13:s:79:ILE:HD13	1.95	0.47
13:s:62:ASN:O	43:AP:103:ALA:HB2	2.15	0.47
13:s:87:LYS:HB3	13:s:87:LYS:HE3	1.60	0.47
15:u:73:PRO:HG2	15:u:76:ALA:HB2	1.97	0.47
39:AL:63:LYS:O	39:AL:66:ILE:HG22	2.14	0.47
1:AR:321:C:H5''	16:CP:150:TRP:CZ3	2.50	0.47
1:AR:621:A:H3'	81:AR:3616:OHX:N2	2.30	0.47
1:AR:815:G:OP2	38:DL:31:LYS:NZ	2.41	0.47
1:AR:2367:A:H2'	1:AR:2368:A:C8	2.49	0.47
1:AR:2403:G:N7	1:AR:2870:C:H4'	2.29	0.47
1:AR:2793:G:H5''	43:DQ:66:LYS:HG2	1.96	0.47
3:AT:82:U:O2'	3:AT:87:G:H4'	2.14	0.47
11:CK:105:GLU:HB2	11:CK:109:ALA:N	2.29	0.47
18:CR:13:LYS:HZ2	18:CR:154:GLU:HG2	1.79	0.47
26:CZ:56:ARG:O	26:CZ:57:LEU:HD12	2.14	0.47
47:A:358:U:O2'	47:A:360:A:H5''	2.14	0.47
47:A:479:C:O3'	57:K:120:LYS:NZ	2.39	0.47
47:A:749:U:H2'	47:A:750:U:C6	2.49	0.47
47:A:986:G:H2'	47:A:987:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1114:G:O2'	47:A:1130:G:O6	2.22	0.47
47:A:1291:G:H22	47:A:1324:G:N2	2.10	0.47
47:A:1336:A:O2'	64:R:123:ARG:HG2	2.15	0.47
47:A:1525:A:OP1	67:U:82:GLY:HA2	2.14	0.47
47:A:1619:C:H2'	47:A:1620:C:H6	1.78	0.47
50:D:120:GLU:HG3	50:D:123:GLY:H	1.79	0.47
56:J:91:VAL:O	56:J:94:ASN:ND2	2.48	0.47
62:P:86:THR:HG23	62:P:87:GLY:H	1.79	0.47
67:U:76:LEU:HB3	67:U:80:TYR:HE2	1.79	0.47
72:Z:53:ASP:OD1	72:Z:96:LEU:HD21	2.13	0.47
74:b:51:ARG:HG3	74:b:52:ASP:H	1.80	0.47
77:e:22:ARG:HB2	77:e:38:ILE:HD11	1.96	0.47
80:h:20:VAL:HG23	80:h:291:SER:OG	2.14	0.47
47:sR:1078:C:H2'	47:sR:1079:U:C6	2.50	0.47
47:sR:1086:A:C5'	50:s2:164:SER:HB3	2.40	0.47
80:Rb:209:THR:O	80:Rb:224:ASN:HA	2.13	0.47
80:Rb:276:PRO:HB2	80:Rb:278:PHE:CE1	2.49	0.47
80:Rb:288:HIS:O	80:Rb:306:THR:HG23	2.14	0.47
50:s2:87:GLN:HA	50:s2:95:ARG:O	2.14	0.47
50:s2:129:ILE:H	50:s2:129:ILE:HD12	1.79	0.47
51:s3:32:GLU:HG3	51:s3:57:ASP:HB2	1.95	0.47
53:s5:218:GLU:O	53:s5:221:ALA:HB3	2.14	0.47
55:s7:20:VAL:HG22	55:s7:24:PHE:CE1	2.50	0.47
57:s9:140:ILE:HD13	72:d4:65:GLY:HA3	1.96	0.47
63:c5:12:PHE:C	63:c5:14:THR:HG23	2.39	0.47
63:c5:17:TYR:O	66:c8:92:ILE:O	2.32	0.47
63:c5:52:LYS:N	63:c5:53:PRO:HD3	2.29	0.47
63:c5:90:ILE:HA	63:c5:107:ILE:HG22	1.96	0.47
64:c6:78:VAL:HA	64:c6:81:ILE:HD12	1.96	0.47
66:c8:23:ASP:HB3	66:c8:26:ILE:CD1	2.44	0.47
70:d2:17:ALA:HA	70:d2:20:THR:HG22	1.96	0.47
1:1:268:A:C4	16:v:12:ARG:HG2	2.50	0.47
1:1:408:A:N6	3:4:15:G:H1'	2.29	0.47
1:1:409:A:OP2	81:1:4122:OHX:N4	2.47	0.47
1:1:1233:G:H2'	1:1:1234:G:C8	2.49	0.47
1:1:1386:A:N7	6:l:183:LYS:HE3	2.29	0.47
1:1:1574:C:H2'	1:1:1575:A:H5''	1.96	0.47
1:1:2273:G:O6	81:1:4090:OHX:N5	2.48	0.47
1:1:2314:U:O2'	1:1:2315:G:OP1	2.30	0.47
1:1:2344:U:H2'	1:1:2345:A:C8	2.49	0.47
1:1:2608:G:OP1	4:j:2:GLY:HA3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:212:ASN:OD1	5:k:354:VAL:N	2.46	0.47
7:m:219:PHE:CE1	7:m:227:LEU:HD21	2.46	0.47
27:9:112:ASP:HB2	27:9:115:ARG:HB2	1.96	0.47
35:AH:102:LYS:HD2	35:AH:102:LYS:H	1.79	0.47
1:AR:609:G:C8	6:CF:310:THR:HG22	2.50	0.47
1:AR:728:G:H2'	1:AR:729:C:C6	2.49	0.47
1:AR:817:A:H2'	1:AR:920:A:C2	2.50	0.47
1:AR:1711:C:H2'	1:AR:1712:G:O4'	2.14	0.47
1:AR:2426:U:H2'	1:AR:2427:U:H6	1.79	0.47
1:AR:2524:A:N1	10:CJ:44:ARG:HD2	2.29	0.47
1:AR:2611:U:H2'	1:AR:2612:U:C6	2.49	0.47
1:AR:3086:A:OP1	81:AR:4202:OHX:N3	2.47	0.47
1:AR:3313:U:H4'	5:CE:173:GLN:HG2	1.96	0.47
4:CD:140:ASN:O	4:CD:144:ASN:HA	2.14	0.47
16:CP:17:ASP:OD1	37:DK:55:ARG:NH2	2.38	0.47
20:CT:4:LEU:HA	20:CT:7:GLN:OE1	2.15	0.47
20:CT:32:ILE:HA	20:CT:44:LEU:HD21	1.96	0.47
29:DC:47:LYS:HE3	29:DC:48:TYR:CZ	2.49	0.47
33:DG:79:VAL:O	33:DG:83:GLU:HG3	2.14	0.47
47:A:260:U:H3'	47:A:261:U:H5'	1.96	0.47
47:A:288:A:H2'	47:A:289:U:C6	2.49	0.47
47:A:531:C:C2'	47:A:532:U:H5'	2.43	0.47
47:A:702:G:C6	47:A:737:A:N6	2.83	0.47
47:A:1294:G:O2'	47:A:1321:A:N1	2.35	0.47
47:A:1424:A:H2'	47:A:1425:A:H8	1.80	0.47
49:C:144:ARG:HB2	49:C:208:GLN:HB3	1.96	0.47
50:D:139:ILE:HD13	50:D:191:ALA:HB1	1.96	0.47
52:F:212:ASP:OD1	52:F:216:ASN:HB2	2.14	0.47
53:G:98:MET:HE3	53:G:105:GLY:O	2.14	0.47
60:N:69:ALA:O	60:N:73:LYS:HB2	2.14	0.47
62:P:114:ARG:HA	74:b:62:TYR:CZ	2.49	0.47
67:U:105:LEU:HD22	67:U:122:ARG:CZ	2.45	0.47
70:X:115:GLU:HG3	70:X:119:LYS:NZ	2.29	0.47
72:Z:84:LYS:HG3	72:Z:85:PHE:HD1	1.78	0.47
80:h:170:ILE:HD12	80:h:170:ILE:O	2.15	0.47
80:h:249:ARG:HH11	80:h:249:ARG:HG2	1.78	0.47
80:h:263:PHE:CD1	80:h:270:LEU:HD13	2.50	0.47
47:sR:129:U:O2	81:sR:1915:OHX:N5	2.47	0.47
47:sR:650:U:C2'	47:sR:651:G:H5'	2.44	0.47
47:sR:1673:G:C5	47:sR:1674:C:C5	3.02	0.47
48:s0:48:ILE:HD12	48:s0:49:ASN:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s2:229:LEU:HD21	69:d1:10:GLU:OE2	2.15	0.47
51:s3:40:ARG:HG2	68:d0:110:PRO:HB3	1.95	0.47
53:s5:43:PHE:O	53:s5:44:ASN:C	2.57	0.47
53:s5:43:PHE:CE2	53:s5:118:LEU:HD22	2.49	0.47
53:s5:44:ASN:O	53:s5:45:LYS:HD2	2.14	0.47
66:c8:3:LEU:HD12	66:c8:5:VAL:HG12	1.95	0.47
1:1:283:G:OP2	1:1:285:A:H4'	2.14	0.47
1:1:578:A:H5''	1:1:579:G:O5'	2.15	0.47
1:1:1039:U:H2'	1:1:1040:A:C8	2.50	0.47
1:1:2389:C:H2'	1:1:2390:A:C8	2.49	0.47
1:1:2415:C:OP1	4:j:2:GLY:N	2.48	0.47
1:1:2713:U:H3'	43:AP:9:LYS:O	2.15	0.47
1:1:2823:G:O6	81:1:3430:OHX:N1	2.46	0.47
1:1:3028:G:H2'	1:1:3029:A:O4'	2.14	0.47
1:1:3296:A:H2'	1:1:3297:U:H6	1.80	0.47
3:4:67:U:H2'	3:4:68:G:H8	1.79	0.47
5:k:349:LYS:HD3	5:k:349:LYS:N	2.29	0.47
6:l:3:ARG:O	6:l:5:GLN:HG2	2.14	0.47
10:p:158:ASP:HB3	10:p:159:PRO:HD3	1.95	0.47
12:r:9:TYR:CG	12:r:97:LEU:HD13	2.50	0.47
13:s:80:LEU:HD13	13:s:129:VAL:HG21	1.96	0.47
21:0:101:ALA:O	21:0:105:THR:HG23	2.14	0.47
23:5:22:PRO:HB2	23:5:28:PHE:CD2	2.49	0.47
28:AA:61:LYS:H	28:AA:61:LYS:HD3	1.79	0.47
35:AH:54:ILE:HD11	35:AH:78:GLY:HA2	1.97	0.47
1:AR:821:U:H2'	1:AR:822:G:H8	1.78	0.47
1:AR:900:G:H1'	1:AR:1589:A:H61	1.77	0.47
1:AR:1334:U:H5''	9:CI:206:LYS:HB3	1.97	0.47
1:AR:1587:A:OP1	81:AR:3491:OHX:N6	2.48	0.47
1:AR:1746:U:O2'	39:DM:4:GLU:OE1	2.30	0.47
1:AR:1886:A:O4'	1:AR:3307:A:H5'	2.13	0.47
1:AR:2393:G:H4'	5:CE:252:ILE:HD13	1.96	0.47
1:AR:3208:G:O3'	21:CU:161:LYS:NZ	2.48	0.47
1:AR:3283:U:H2'	1:AR:3284:G:C8	2.50	0.47
9:CI:88:ARG:NH2	9:CI:92:ILE:HA	2.29	0.47
47:A:206:A:H1'	47:A:262:U:C2	2.49	0.47
47:A:530:C:OP1	81:A:1928:OHX:N4	2.48	0.47
47:A:696:C:H1'	47:A:697:C:H2'	1.97	0.47
47:A:915:A:N3	47:A:915:A:H2'	2.29	0.47
47:A:1228:G:H5''	47:A:1229:G:C8	2.49	0.47
47:A:1533:C:P	73:a:77:ARG:HH22	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1650:U:H2'	47:A:1651:A:C8	2.50	0.47
48:B:60:ALA:C	48:B:64:ILE:HG13	2.40	0.47
48:B:74:VAL:HG23	48:B:118:PRO:HB3	1.97	0.47
53:G:53:VAL:CG2	53:G:59:VAL:HG22	2.44	0.47
57:K:127:VAL:HG12	57:K:131:GLN:OE1	2.14	0.47
58:L:25:LYS:HD3	58:L:59:PHE:HZ	1.80	0.47
64:R:52:LEU:HD13	64:R:60:PHE:CE2	2.50	0.47
65:S:17:ILE:HG13	65:S:58:MET:SD	2.55	0.47
66:T:35:ILE:O	66:T:38:VAL:HG22	2.14	0.47
68:V:20:ILE:HG12	68:V:95:ALA:H	1.79	0.47
69:W:12:TYR:O	69:W:14:PRO:HD3	2.14	0.47
70:X:57:ARG:N	70:X:57:ARG:HD2	2.30	0.47
80:h:294:TRP:CZ3	80:h:301:LEU:HB2	2.50	0.47
47:sR:71:A:C2	47:sR:81:G:C2	3.02	0.47
47:sR:199:G:HO2'	47:sR:200:A:H8	1.61	0.47
47:sR:358:U:OP1	81:sR:2169:OHX:N1	2.47	0.47
47:sR:393:C:OP2	56:s8:2:GLY:N	2.47	0.47
47:sR:538:A:H2	47:sR:540:G:N2	2.12	0.47
47:sR:592:A:OP1	57:s9:39:LYS:HG3	2.14	0.47
47:sR:847:A:H2'	47:sR:848:C:O4'	2.14	0.47
47:sR:1199:G:H1	77:d9:31:ILE:HD13	1.79	0.47
47:sR:1357:A:H2'	47:sR:1358:G:C8	2.50	0.47
47:sR:1363:U:H3'	47:sR:1364:G:H8	1.80	0.47
47:sR:1558:U:H3	63:c5:122:THR:CG2	2.28	0.47
47:sR:1754:A:O2'	81:sR:1917:OHX:N1	2.48	0.47
80:Rb:89:LEU:HB2	80:Rb:103:PHE:HB2	1.97	0.47
48:s0:126:PRO:HG2	48:s0:152:PRO:HD2	1.96	0.47
48:s0:148:ASP:OD2	48:s0:163:ASN:O	2.31	0.47
59:c1:76:VAL:HG11	59:c1:87:ARG:HB2	1.97	0.47
62:c4:32:ASP:OD2	62:c4:37:GLU:HB2	2.14	0.47
68:d0:51:VAL:CG1	68:d0:52:LYS:H	2.27	0.47
72:d4:55:VAL:HG23	72:d4:75:VAL:CG1	2.44	0.47
78:e0:38:LEU:HD22	78:e0:39:LEU:HD12	1.96	0.47
1:1:26:A:H2'	1:1:27:C:H6	1.79	0.47
1:1:29:C:H4'	1:1:62:A:H4'	1.96	0.47
1:1:305:U:C5	1:1:2776:C:H1'	2.50	0.47
1:1:1222:G:H1'	1:1:1286:A:H61	1.80	0.47
1:1:1750:A:H4'	1:1:1751:G:H5'	1.96	0.47
1:1:1832:C:OP1	26:8:120:LYS:HE3	2.15	0.47
1:1:2407:C:H1'	1:1:2818:U:O2	2.14	0.47
1:1:2422:C:O2	16:v:87:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2433:U:H1'	16:v:125:SER:HB3	1.97	0.47
1:1:2585:G:H2'	1:1:2585:G:N3	2.29	0.47
1:1:3015:G:OP1	81:1:3587:OHX:N5	2.47	0.47
1:1:3041:U:OP1	24:6:12:ARG:NH1	2.44	0.47
1:1:3095:U:H2'	1:1:3096:C:C6	2.49	0.47
1:1:3112:G:O6	1:1:3120:C:H5''	2.14	0.47
1:1:3317:U:H4'	1:1:3318:G:O5'	2.15	0.47
7:m:64:ILE:HD12	7:m:109:THR:HG21	1.96	0.47
9:o:158:LYS:HD2	9:o:158:LYS:N	2.30	0.47
10:p:75:ILE:CD1	16:v:18:VAL:HG23	2.45	0.47
11:q:45:PHE:HB3	15:u:7:VAL:HG11	1.96	0.47
11:q:132:VAL:HG21	11:q:157:ASN:ND2	2.29	0.47
12:r:66:GLU:CD	12:r:69:ARG:HH21	2.23	0.47
16:v:146:ALA:HA	16:v:149:ASN:CG	2.40	0.47
21:0:80:ARG:HB3	21:0:122:HIS:HB2	1.97	0.47
26:8:59:SER:HB3	26:8:102:LEU:HD13	1.96	0.47
35:AH:102:LYS:HD2	35:AH:102:LYS:N	2.30	0.47
39:AL:8:ILE:H	39:AL:8:ILE:HD12	1.80	0.47
39:AL:23:ALA:CB	39:AL:73:LEU:HD11	2.43	0.47
39:AL:63:LYS:HZ3	39:AL:64:LYS:HD3	1.79	0.47
45:i:79:SER:O	45:i:82:THR:OG1	2.30	0.47
1:AR:192:C:H2'	1:AR:193:C:C6	2.50	0.47
1:AR:872:U:H2'	1:AR:873:C:C6	2.50	0.47
1:AR:1334:U:H5'	9:CI:207:LEU:O	2.15	0.47
1:AR:1799:A:H2'	1:AR:1800:A:H8	1.79	0.47
1:AR:1863:G:N1	1:AR:1866:C:OP2	2.37	0.47
1:AR:1879:A:H4'	1:AR:1880:U:OP2	2.14	0.47
1:AR:3089:C:H2'	1:AR:3090:U:O4'	2.15	0.47
1:AR:3159:C:O2	1:AR:3291:G:N2	2.39	0.47
1:AR:3218:A:H5''	1:AR:3219:G:C5	2.50	0.47
1:AR:3281:U:H2'	1:AR:3282:U:C6	2.50	0.47
81:AR:3425:OHX:N2	3:AT:17:A:OP1	2.48	0.47
3:AT:134:G:OP1	26:CZ:56:ARG:HD2	2.15	0.47
5:CE:265:ALA:C	5:CE:266:ARG:HG2	2.39	0.47
6:CF:131:VAL:O	6:CF:135:VAL:HG23	2.14	0.47
6:CF:354:VAL:O	6:CF:358:THR:HG23	2.14	0.47
7:CG:92:LEU:CD2	7:CG:92:LEU:H	2.28	0.47
9:CI:158:LYS:C	9:CI:159:GLN:HG2	2.39	0.47
11:CK:147:SER:HB2	11:CK:187:ILE:CD1	2.44	0.47
11:CK:150:SER:O	11:CK:154:VAL:HG23	2.15	0.47
19:CS:159:LYS:O	19:CS:161:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DE:32:LYS:O	31:DE:36:GLN:HG3	2.15	0.47
31:DE:104:LEU:HD22	31:DE:104:LEU:H	1.80	0.47
33:DG:89:THR:HG22	33:DG:117:ILE:HG12	1.97	0.47
37:DK:64:SER:C	37:DK:67:LYS:HZ3	2.23	0.47
47:A:156:A:H2'	47:A:157:A:O4'	2.15	0.47
47:A:168:A:O2'	47:A:169:A:H5'	2.15	0.47
47:A:223:U:H2'	47:A:224:C:C5	2.49	0.47
47:A:224:C:H2'	47:A:225:A:C8	2.49	0.47
47:A:319:U:H1'	47:A:323:A:C8	2.50	0.47
47:A:631:G:H2'	47:A:632:U:C6	2.50	0.47
47:A:685:A:HO2'	47:A:686:C:P	2.37	0.47
47:A:747:C:H4'	70:X:80:ASN:OD1	2.14	0.47
47:A:881:A:H2'	47:A:882:U:O4'	2.14	0.47
47:A:960:U:O5'	61:O:55:ARG:NH1	2.48	0.47
47:A:1100:G:H1'	70:X:76:SER:OG	2.14	0.47
47:A:1100:G:O2'	70:X:76:SER:N	2.44	0.47
47:A:1198:G:O4'	68:V:73:GLY:HA3	2.15	0.47
47:A:1252:C:OP1	79:g:118:ARG:HD2	2.15	0.47
47:A:1459:C:OP1	66:T:126:ARG:NH2	2.45	0.47
47:A:1514:U:O2'	51:E:5:ILE:O	2.32	0.47
47:A:1622:G:H2'	47:A:1623:C:H6	1.79	0.47
48:B:89:PHE:O	48:B:93:THR:HG23	2.15	0.47
48:B:187:ALA:O	48:B:188:LEU:HD12	2.15	0.47
49:C:120:LEU:HD12	49:C:121:ILE:N	2.28	0.47
50:D:245:ASP:C	50:D:248:SER:OG	2.58	0.47
51:E:208:ILE:HD13	65:S:16:LEU:HD21	1.96	0.47
52:F:106:LYS:HG3	52:F:108:ARG:NH2	2.30	0.47
53:G:112:ARG:NH1	64:R:42:GLU:OE1	2.46	0.47
56:J:22:ARG:O	56:J:22:ARG:HG2	2.14	0.47
57:K:44:ARG:HG2	57:K:48:GLN:HE22	1.80	0.47
61:O:88:LEU:O	61:O:92:ILE:HG13	2.15	0.47
65:S:24:LEU:HA	65:S:31:ASN:OD1	2.13	0.47
66:T:6:GLN:HG2	73:a:42:LEU:HD13	1.95	0.47
67:U:31:PRO:CD	67:U:54:PHE:HE2	2.28	0.47
72:Z:28:LEU:HD23	72:Z:67:GLY:O	2.14	0.47
72:Z:84:LYS:HD2	72:Z:85:PHE:CE1	2.50	0.47
74:b:4:LYS:O	74:b:5:ARG:HG3	2.15	0.47
80:h:59:ARG:NH2	80:h:96:THR:O	2.48	0.47
80:h:114:ASP:CB	80:h:123:ILE:HD11	2.39	0.47
80:h:131:ILE:O	80:h:144:LEU:HB2	2.14	0.47
47:sR:176:C:C2'	47:sR:177:U:H5'	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:208:U:H1'	56:s8:178:ARG:CD	2.44	0.47
47:sR:228:G:H22	47:sR:237:C:H42	1.63	0.47
47:sR:393:C:H2'	47:sR:394:C:C6	2.50	0.47
47:sR:542:A:N1	78:e0:28:LYS:HD3	2.29	0.47
47:sR:1081:A:N3	47:sR:1082:C:N4	2.62	0.47
47:sR:1267:G:H2'	47:sR:1268:G:H8	1.79	0.47
47:sR:1389:C:C6	65:c7:28:PHE:CE2	3.03	0.47
47:sR:1471:A:OP1	53:s5:185:ARG:NH2	2.48	0.47
47:sR:1498:G:H5''	67:c9:72:GLY:HA3	1.96	0.47
47:sR:1685:G:H1	47:sR:1716:C:H42	1.63	0.47
80:Rb:48:THR:OG1	80:Rb:49:GLY:N	2.47	0.47
80:Rb:234:LEU:HD21	80:Rb:265:LEU:HD11	1.96	0.47
80:Rb:249:ARG:HH21	80:Rb:315:VAL:HG21	1.79	0.47
48:s0:52:LYS:HD3	69:d1:82:VAL:HA	1.97	0.47
48:s0:66:ALA:HB1	69:d1:50:TYR:CE1	2.49	0.47
51:s3:58:VAL:HG13	51:s3:59:LEU:H	1.79	0.47
52:s4:22:LYS:HB3	52:s4:23:LEU:HD13	1.96	0.47
52:s4:54:TYR:HD1	72:d4:15:ASN:ND2	2.12	0.47
52:s4:192:ILE:HD11	52:s4:242:LYS:O	2.15	0.47
53:s5:139:ASN:O	53:s5:211:ILE:HG22	2.15	0.47
53:s5:219:ARG:NE	53:s5:219:ARG:H	2.12	0.47
55:s7:101:LYS:HA	55:s7:112:ARG:CZ	2.45	0.47
57:s9:29:LYS:HA	78:e0:40:TYR:CE1	2.50	0.47
57:s9:129:ILE:C	57:s9:131:GLN:H	2.21	0.47
57:s9:142:ASN:C	57:s9:143:ILE:HD13	2.40	0.47
63:c5:30:THR:O	63:c5:34:VAL:HG13	2.15	0.47
64:c6:127:LYS:HG2	64:c6:128:LYS:N	2.28	0.47
65:c7:59:LYS:O	65:c7:59:LYS:HD2	2.15	0.47
66:c8:50:ALA:CB	66:c8:69:ILE:HG22	2.45	0.47
66:c8:63:GLN:CD	66:c8:66:LEU:HD23	2.39	0.47
67:c9:101:ASN:O	67:c9:104:VAL:HG22	2.15	0.47
70:d2:18:GLU:OE2	70:d2:65:LEU:HB3	2.14	0.47
71:d3:50:LYS:O	71:d3:77:ILE:HG13	2.15	0.47
72:d4:123:LYS:O	72:d4:127:LYS:HD3	2.14	0.47
1:1:113:C:OP1	16:v:147:ARG:NE	2.38	0.47
1:1:290:G:H5''	16:v:98:LEU:CD1	2.45	0.47
1:1:638:C:H2'	1:1:639:G:H8	1.79	0.47
1:1:1121:U:OP2	81:1:3552:OHX:N6	2.48	0.47
1:1:1856:C:H1'	35:AH:7:PHE:CE2	2.50	0.47
1:1:2185:G:O2'	1:1:2314:U:OP2	2.29	0.47
1:1:2946:A:H5''	1:1:2947:G:H5'	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2986:U:H2'	1:1:2987:A:C8	2.50	0.47
1:1:3040:A:H5''	24:6:12:ARG:HB2	1.96	0.47
7:m:52:VAL:HG23	7:m:54:ARG:CZ	2.44	0.47
7:m:65:ILE:CG2	7:m:72:ASP:HB3	2.43	0.47
10:p:203:VAL:HG11	10:p:211:LEU:HD22	1.97	0.47
21:0:71:LYS:O	21:0:73:LYS:HE2	2.15	0.47
1:AR:113:C:OP1	16:CP:147:ARG:NH2	2.41	0.47
1:AR:269:G:OP1	16:CP:44:ARG:NH2	2.48	0.47
1:AR:693:A:H2'	1:AR:694:C:C6	2.48	0.47
1:AR:1063:G:N1	22:CV:109:VAL:HG23	2.28	0.47
1:AR:1238:C:H2'	1:AR:1239:C:H6	1.79	0.47
1:AR:1597:C:H5'	1:AR:1696:A:H1'	1.97	0.47
1:AR:2369:G:H2'	1:AR:2370:G:C8	2.49	0.47
1:AR:2407:C:C2	1:AR:2408:U:C5	3.03	0.47
1:AR:3291:G:H2'	1:AR:3292:A:H8	1.78	0.47
5:CE:114:VAL:O	5:CE:117:ARG:N	2.42	0.47
10:CJ:130:TYR:HD2	10:CJ:204:ARG:HG2	1.80	0.47
13:CM:117:ASP:OD1	13:CM:119:SER:OG	2.26	0.47
17:CQ:8:VAL:HG22	17:CQ:34:VAL:HG22	1.96	0.47
17:CQ:186:ALA:O	17:CQ:187:GLU:HB3	2.15	0.47
29:DC:28:HIS:CD2	29:DC:32:ARG:HE	2.33	0.47
33:DG:40:SER:O	33:DG:44:ARG:HG3	2.14	0.47
36:DJ:77:PRO:HD2	36:DJ:80:LEU:HD12	1.96	0.47
42:DP:3:ALA:HB3	47:sR:1773:C:OP1	2.15	0.47
46:p0:77:LEU:N	46:p0:78:PRO:HD2	2.30	0.47
45:sM:64:LYS:O	45:sM:65:THR:OG1	2.32	0.47
47:A:5:U:OP2	50:D:204:THR:OG1	2.33	0.47
47:A:226:A:C2'	47:A:227:U:H5'	2.45	0.47
47:A:638:U:OP2	70:X:32:LYS:NZ	2.39	0.47
47:A:736:C:H42	47:A:737:A:N6	2.13	0.47
47:A:1067:C:H5'	49:C:149:GLN:HA	1.97	0.47
47:A:1433:G:N2	77:e:45:GLU:OE1	2.48	0.47
53:G:63:GLN:OE1	53:G:66:GLN:HB3	2.15	0.47
57:K:13:SER:H	57:K:47:PHE:HB2	1.79	0.47
61:O:49:GLN:O	61:O:53:LEU:HG	2.15	0.47
63:Q:14:THR:HG22	63:Q:15:HIS:N	2.29	0.47
63:Q:107:ILE:HA	63:Q:111:MET:HE3	1.97	0.47
67:U:45:MET:HE3	67:U:46:PRO:HD2	1.97	0.47
75:c:8:LEU:O	75:c:10:PRO:HD3	2.14	0.47
47:sR:913:G:H4'	47:sR:914:G:OP2	2.14	0.47
47:sR:947:U:H2'	47:sR:948:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1392:U:H2'	47:sR:1393:C:H6	1.78	0.47
80:Rb:106:HIS:CE1	80:Rb:126:SER:HB3	2.49	0.47
49:s1:104:ASP:CG	49:s1:214:LYS:HD3	2.39	0.47
53:s5:144:GLU:HB2	53:s5:160:VAL:O	2.15	0.47
53:s5:203:LYS:HG3	53:s5:205:SER:HB2	1.96	0.47
54:s6:70:PRO:O	54:s6:98:ARG:CZ	2.63	0.47
57:s9:3:ARG:HG2	57:s9:4:ALA:N	2.29	0.47
57:s9:171:ARG:NH2	57:s9:174:ARG:HG2	2.30	0.47
62:c4:29:HIS:NE2	62:c4:38:THR:HB	2.30	0.47
63:c5:20:VAL:HG11	63:c5:25:LEU:HD13	1.97	0.47
63:c5:127:ARG:O	63:c5:130:ARG:HG3	2.14	0.47
70:d2:112:ASP:OD1	70:d2:112:ASP:C	2.58	0.47
75:d7:36:LYS:O	75:d7:77:THR:HG22	2.15	0.47
75:d7:72:LYS:HD2	75:d7:72:LYS:C	2.39	0.47
1:1:338:A:N7	6:l:47:ARG:HD3	2.29	0.47
1:1:1028:U:H5''	1:1:1029:G:H5'	1.97	0.47
1:1:1043:C:OP2	81:1:3493:OHX:N2	2.48	0.47
1:1:1700:G:H2'	1:1:1701:C:C6	2.50	0.47
1:1:2683:U:H2'	1:1:2684:C:H6	1.80	0.47
1:1:3056:U:OP2	81:1:3457:OHX:N1	2.48	0.47
1:1:3165:A:H2'	1:1:3166:C:C6	2.50	0.47
1:1:3187:A:OP1	11:q:22:SER:HB2	2.15	0.47
6:l:191:LYS:HG2	6:l:194:TYR:OH	2.14	0.47
7:m:164:LYS:HG2	7:m:180:PHE:CZ	2.50	0.47
11:q:76:ASP:O	11:q:79:ILE:HG12	2.15	0.47
12:r:48:LEU:CD2	12:r:145:LYS:HB2	2.43	0.47
13:s:101:ASN:ND2	13:s:130:VAL:HG23	2.30	0.47
15:u:117:ARG:O	15:u:120:VAL:HG22	2.14	0.47
16:v:28:TRP:O	16:v:32:GLN:HG2	2.14	0.47
28:AA:66:THR:O	28:AA:68:ILE:HD12	2.14	0.47
30:AC:23:LYS:HD2	30:AC:23:LYS:HA	1.66	0.47
1:AR:380:U:H2'	1:AR:381:U:C6	2.50	0.47
1:AR:1232:C:O3'	46:p0:36:GLN:OE1	2.33	0.47
1:AR:1281:G:C2	1:AR:1282:G:C8	3.03	0.47
1:AR:1691:U:H2'	1:AR:1692:U:C6	2.50	0.47
1:AR:2244:A:H5''	4:CD:243:THR:OG1	2.13	0.47
1:AR:2523:A:H2'	10:CJ:49:TYR:O	2.15	0.47
1:AR:2700:G:O2'	1:AR:2705:A:N1	2.40	0.47
4:CD:82:VAL:HA	4:CD:86:GLN:OE1	2.15	0.47
5:CE:209:PHE:HB3	5:CE:282:ILE:CD1	2.44	0.47
9:CI:44:ILE:HG12	9:CI:180:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:55:ASN:ND2	12:CL:164:LYS:HE3	2.30	0.47
12:CL:55:ASN:O	12:CL:131:ILE:HG12	2.14	0.47
16:CP:35:VAL:O	16:CP:64:VAL:HA	2.15	0.47
20:CT:170:ARG:HH22	47:sR:814:A:H5''	1.80	0.47
43:DQ:12:CYS:HB2	43:DQ:23:HIS:CE1	2.50	0.47
47:A:918:U:H2'	47:A:919:A:C8	2.50	0.47
47:A:1330:G:H2'	47:A:1331:A:O4'	2.15	0.47
47:A:1484:G:H21	47:A:1606:C:H1'	1.80	0.47
49:C:181:LEU:O	49:C:185:THR:HG23	2.15	0.47
54:H:163:THR:HA	54:H:167:LYS:O	2.15	0.47
57:K:77:ILE:CD1	57:K:91:LYS:HD3	2.40	0.47
58:L:13:GLN:HG3	58:L:14:TYR:N	2.29	0.47
61:O:33:VAL:O	61:O:37:ILE:HG23	2.15	0.47
63:Q:38:PRO:HD2	63:Q:41:VAL:HG11	1.97	0.47
65:S:20:TYR:O	65:S:24:LEU:HD12	2.14	0.47
67:U:118:PRO:HD2	67:U:123:ARG:NH2	2.30	0.47
73:a:94:LYS:HG2	73:a:95:HIS:HB3	1.97	0.47
76:d:13:ILE:HG23	76:d:31:GLU:HB2	1.97	0.47
47:sR:472:U:H2'	47:sR:473:A:H8	1.79	0.47
47:sR:737:A:H2'	47:sR:738:G:C8	2.50	0.47
47:sR:1006:C:OP1	81:sR:1910:OHX:N4	2.48	0.47
47:sR:1297:G:N2	47:sR:1300:A:OP2	2.46	0.47
47:sR:1620:C:H2'	47:sR:1621:U:C6	2.50	0.47
80:Rb:316:MET:HE3	80:Rb:316:MET:HA	1.97	0.47
48:s0:24:LEU:O	48:s0:163:ASN:ND2	2.47	0.47
51:s3:59:LEU:HG	51:s3:66:ILE:HG21	1.97	0.47
51:s3:102:ALA:HB1	51:s3:173:ARG:HG2	1.96	0.47
55:s7:11:GLN:OE1	55:s7:12:ALA:N	2.48	0.47
59:c1:59:PRO:HB3	59:c1:66:ILE:HD11	1.97	0.47
68:d0:33:GLN:H	68:d0:33:GLN:CD	2.23	0.47
71:d3:56:LYS:HD3	71:d3:93:LEU:HD21	1.96	0.47
1:1:926:A:H2'	1:1:927:C:H6	1.80	0.47
1:1:962:A:N1	1:1:2814:G:O2'	2.42	0.47
1:1:1334:U:H5''	9:o:206:LYS:HB3	1.97	0.47
1:1:1742:U:H2'	1:1:1743:G:C8	2.50	0.47
1:1:1802:C:H2'	1:1:1803:C:C6	2.50	0.47
2:3:49:G:OP1	7:m:90:HIS:HB3	2.15	0.47
3:4:146:U:H2'	3:4:147:U:C6	2.50	0.47
7:m:160:PHE:HA	7:m:163:LEU:HB3	1.96	0.47
15:u:55:ARG:NE	21:0:70:THR:OG1	2.45	0.47
23:5:89:LEU:HB3	23:5:93:ILE:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AO:11:ARG:HH11	42:AO:11:ARG:HG3	1.80	0.47
1:AR:210:U:C2	1:AR:230:U:H4'	2.49	0.47
1:AR:796:U:H2'	1:AR:797:U:C6	2.50	0.47
1:AR:827:A:H5''	35:DI:14:ASN:O	2.15	0.47
1:AR:2683:U:H2'	1:AR:2684:C:H6	1.77	0.47
1:AR:2947:G:C2	5:CE:250:ALA:HB1	2.50	0.47
1:AR:3053:G:H2'	1:AR:3054:U:C6	2.50	0.47
5:CE:239:PRO:O	5:CE:242:THR:HG23	2.14	0.47
6:CF:262:TRP:C	6:CF:269:SER:HB2	2.40	0.47
10:CJ:30:THR:O	10:CJ:30:THR:OG1	2.28	0.47
22:CV:56:PHE:CZ	22:CV:78:LYS:HG3	2.50	0.47
37:DK:97:SER:OG	37:DK:98:ARG:HD2	2.15	0.47
46:p0:190:VAL:HG12	46:p0:197:PHE:O	2.14	0.47
45:sM:61:ILE:HG21	66:c8:120:ARG:CG	2.44	0.47
47:A:863:A:C8	47:A:865:A:C8	3.02	0.47
47:A:1471:A:N3	47:A:1474:G:H1'	2.29	0.47
48:B:160:ILE:HG22	48:B:162:CYS:SG	2.55	0.47
51:E:24:PHE:C	51:E:24:PHE:CD1	2.93	0.47
53:G:118:LEU:HB2	53:G:129:PRO:CB	2.45	0.47
55:I:8:ILE:C	55:I:42:GLN:HG2	2.40	0.47
57:K:38:ASN:HB3	57:K:40:LYS:H	1.79	0.47
57:K:114:TYR:HA	57:K:119:ALA:HB3	1.97	0.47
57:K:159:ALA:HB1	57:K:160:PRO:HD2	1.97	0.47
61:O:37:ILE:HG22	61:O:54:LEU:CD1	2.40	0.47
62:P:17:ALA:HB1	62:P:19:ILE:HD11	1.96	0.47
68:V:25:THR:C	68:V:26:LEU:HD23	2.40	0.47
69:W:35:ASN:HB3	69:W:50:TYR:CG	2.50	0.47
70:X:19:LYS:O	70:X:19:LYS:HD3	2.14	0.47
47:sR:570:A:N6	71:d3:116:ASP:OD1	2.40	0.47
47:sR:845:G:H2'	47:sR:846:G:C8	2.50	0.47
47:sR:1584:G:H22	47:sR:1611:A:P	2.37	0.47
80:Rb:12:THR:HA	80:Rb:312:VAL:HG13	1.97	0.47
80:Rb:38:ARG:HG2	80:Rb:67:ILE:CG2	2.44	0.47
49:s1:38:PHE:CD1	49:s1:73:LEU:HD23	2.50	0.47
53:s5:69:PHE:CD1	53:s5:69:PHE:N	2.77	0.47
53:s5:164:PRO:HG3	76:d8:52:ASP:HB3	1.97	0.47
54:s6:17:GLU:N	54:s6:17:GLU:OE1	2.48	0.47
58:c0:8:ARG:HG3	58:c0:12:HIS:HE1	1.80	0.47
64:c6:97:VAL:HG12	64:c6:98:ASP:N	2.29	0.47
65:c7:21:TYR:HB2	65:c7:71:PHE:HB2	1.97	0.47
67:c9:61:VAL:O	67:c9:64:HIS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:d2:106:THR:HG22	70:d2:122:SER:C	2.40	0.47
72:d4:52:LYS:C	72:d4:54:ALA:N	2.72	0.47
75:d7:3:LEU:O	75:d7:3:LEU:HD23	2.14	0.47
77:d9:6:VAL:O	77:d9:7:TRP:CG	2.68	0.47
1:1:329:U:OP2	81:1:3534:OHX:N4	2.48	0.46
1:1:501:A:H2'	1:1:502:U:C6	2.49	0.46
1:1:551:A:H2'	1:1:551:A:OP2	2.14	0.46
1:1:565:U:H2'	1:1:566:G:H8	1.80	0.46
1:1:595:G:N1	1:1:609:G:H5''	2.30	0.46
1:1:1097:G:H1'	1:1:1098:A:OP2	2.15	0.46
1:1:1141:C:OP2	81:1:3543:OHX:N2	2.48	0.46
1:1:3107:U:P	41:AN:112:LYS:NZ	2.88	0.46
10:p:72:PRO:HG2	10:p:75:ILE:HD12	1.97	0.46
14:t:153:ASP:OD1	14:t:154:VAL:N	2.36	0.46
19:y:19:PRO:HD3	19:y:53:PHE:CD1	2.49	0.46
20:z:68:GLN:HG2	20:z:71:ARG:NH2	2.30	0.46
20:z:136:ARG:O	20:z:140:GLU:HG3	2.16	0.46
31:AD:31:VAL:O	31:AD:35:ARG:HG2	2.15	0.46
37:AJ:61:ILE:HD12	37:AJ:62:ARG:N	2.30	0.46
1:AR:926:A:H2'	1:AR:927:C:C6	2.50	0.46
28:DB:41:ALA:O	28:DB:43:VAL:HG13	2.15	0.46
31:DE:13:LYS:O	31:DE:17:VAL:HG23	2.15	0.46
38:DL:60:GLY:O	81:DL:102:OHX:N6	2.48	0.46
41:DO:99:CYS:HB2	41:DO:114:LYS:HD2	1.96	0.46
43:DQ:54:THR:O	43:DQ:55:LYS:HG2	2.16	0.46
44:DR:49:ARG:HG2	44:DR:50:GLY:N	2.30	0.46
47:A:79:C:H1'	54:H:174:LYS:HG3	1.96	0.46
47:A:127:G:C4	54:H:195:VAL:HG23	2.50	0.46
47:A:169:A:OP1	54:H:137:ARG:HG3	2.15	0.46
47:A:788:A:H2'	52:F:19:LEU:CD1	2.45	0.46
47:A:1183:A:C6	47:A:1184:A:N1	2.83	0.46
47:A:1595:U:H3	47:A:1600:A:H2	1.62	0.46
48:B:80:THR:O	48:B:84:ARG:HD2	2.15	0.46
49:C:196:GLU:HA	49:C:199:ASN:OD1	2.15	0.46
57:K:24:LEU:HD23	57:K:39:LYS:HZ1	1.81	0.46
61:O:28:LEU:HD23	61:O:28:LEU:H	1.79	0.46
65:S:5:ARG:H	65:S:5:ARG:CD	2.27	0.46
65:S:16:LEU:HA	65:S:16:LEU:HD23	1.50	0.46
67:U:34:VAL:HG23	67:U:53:TRP:CZ2	2.51	0.46
69:W:70:ASN:HB3	69:W:82:VAL:CG1	2.45	0.46
73:a:80:LEU:HD12	73:a:80:LEU:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:7:LEU:HD23	80:h:314:GLN:C	2.40	0.46
80:h:307:ASP:OD1	80:h:309:VAL:HG12	2.14	0.46
47:sR:347:G:OP1	59:c1:77:SER:OG	2.23	0.46
47:sR:631:G:H2'	47:sR:632:U:H6	1.80	0.46
47:sR:919:A:H2'	47:sR:920:U:C6	2.50	0.46
47:sR:1402:G:OP2	65:c7:5:ARG:NH1	2.42	0.46
80:Rb:112:SER:HB2	80:Rb:153:GLN:HA	1.97	0.46
48:s0:13:ASP:HA	48:s0:16:LEU:CD1	2.45	0.46
49:s1:157:GLN:OE1	81:s1:301:OHX:N3	2.49	0.46
51:s3:51:ARG:HB3	51:s3:91:VAL:HG12	1.96	0.46
53:s5:130:ILE:HD12	53:s5:131:GLN:N	2.30	0.46
54:s6:20:ASP:CB	54:s6:23:ARG:HG3	2.39	0.46
62:c4:135:ARG:H	74:d6:26:CYS:HB2	1.80	0.46
77:d9:40:ARG:CZ	77:d9:40:ARG:HB2	2.45	0.46
1:l:269:G:H5'	16:v:120:TRP:CE3	2.50	0.46
1:l:1408:G:OP2	33:AF:31:ASN:ND2	2.47	0.46
1:l:1447:G:OP1	18:x:65:SER:HB2	2.15	0.46
1:l:2812:C:H2'	1:l:2813:A:C8	2.49	0.46
2:3:26:C:C5'	7:m:56:THR:HB	2.38	0.46
3:4:63:G:O2'	36:AI:49:LYS:HE3	2.16	0.46
11:q:99:ILE:HG21	11:q:117:PHE:HD1	1.80	0.46
13:s:92:ARG:O	13:s:94:ARG:O	2.33	0.46
14:t:93:ILE:HG22	14:t:93:ILE:O	2.14	0.46
23:5:40:HIS:HA	23:5:47:VAL:HB	1.96	0.46
29:AB:77:LYS:C	29:AB:79:TRP:H	2.22	0.46
1:AR:201:A:H2'	1:AR:202:G:C8	2.50	0.46
1:AR:295:A:OP1	37:DK:53:TYR:HE2	1.98	0.46
1:AR:374:A:H4'	1:AR:375:A:OP1	2.16	0.46
1:AR:607:A:OP1	8:CH:24:ALA:N	2.38	0.46
1:AR:1019:G:H2'	1:AR:1020:G:H5''	1.96	0.46
1:AR:1162:U:H4'	33:DG:57:TYR:CE1	2.50	0.46
1:AR:2233:A:OP2	81:AR:3462:OHX:N5	2.48	0.46
1:AR:2947:G:H2'	1:AR:2948:C:H6	1.80	0.46
1:AR:2986:U:C2	1:AR:2987:A:C8	3.03	0.46
1:AR:3018:C:C4	1:AR:3019:U:C4	3.03	0.46
1:AR:3203:U:H2'	1:AR:3204:C:C6	2.50	0.46
1:AR:3260:G:OP2	15:CO:128:ARG:NH2	2.48	0.46
1:AR:3275:U:H5	1:AR:3276:G:H21	1.62	0.46
3:AT:141:C:H2'	3:AT:142:C:H6	1.79	0.46
5:CE:313:HIS:O	5:CE:333:LYS:HE2	2.16	0.46
8:CH:131:LYS:HD3	8:CH:132:ALA:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DJ:101:THR:HG23	36:DJ:104:GLN:HB3	1.96	0.46
44:DR:78:THR:O	44:DR:82:THR:HG23	2.15	0.46
45:sM:71:ASN:HD21	63:c5:126:VAL:HB	1.80	0.46
47:A:139:C:H1'	47:A:140:A:OP2	2.15	0.46
47:A:190:C:OP2	47:A:190:C:H6	1.97	0.46
47:A:434:G:N2	47:A:436:A:H3'	2.30	0.46
47:A:1473:U:OP2	53:G:189:THR:HA	2.15	0.46
47:A:1581:C:O2'	47:A:1582:U:H5'	2.14	0.46
49:C:110:LEU:HD11	49:C:140:ILE:HD13	1.96	0.46
50:D:233:GLN:OE1	50:D:234:PRO:HD3	2.16	0.46
51:E:208:ILE:HD11	65:S:20:TYR:HE2	1.80	0.46
53:G:84:LYS:HG2	53:G:92:ARG:HE	1.81	0.46
53:G:117:THR:O	53:G:121:ILE:HG13	2.15	0.46
53:G:137:ILE:HD12	53:G:138:THR:N	2.30	0.46
54:H:23:ARG:O	54:H:26:VAL:HG12	2.15	0.46
55:I:62:VAL:HG11	55:I:70:PHE:CE2	2.50	0.46
60:N:74:LEU:O	60:N:78:LEU:HD23	2.16	0.46
62:P:16:VAL:HA	62:P:79:VAL:CG2	2.45	0.46
63:Q:19:GLY:N	66:T:94:ASP:HA	2.30	0.46
65:S:51:ALA:HA	65:S:54:THR:HG22	1.97	0.46
71:Y:69:ARG:HD2	71:Y:117:ILE:HG12	1.97	0.46
79:g:132:LEU:HB2	79:g:140:TYR:C	2.40	0.46
80:h:13:LEU:O	80:h:309:VAL:HG23	2.15	0.46
80:h:69:GLN:CD	80:h:70:ASP:HB2	2.41	0.46
47:sR:460:A:H3'	47:sR:461:G:H8	1.79	0.46
47:sR:513:U:H4'	57:s9:131:GLN:HG2	1.97	0.46
47:sR:521:A:H2'	47:sR:522:U:O4'	2.15	0.46
47:sR:1316:G:OP1	65:c7:7:LYS:N	2.47	0.46
47:sR:1346:A:H4'	47:sR:1347:U:OP1	2.12	0.46
47:sR:1371:A:H5'	47:sR:1372:U:OP2	2.15	0.46
80:Rb:184:ASN:OD1	80:Rb:185:GLN:N	2.49	0.46
50:s2:157:LYS:HD3	50:s2:168:ARG:NH2	2.30	0.46
54:s6:211:LEU:O	54:s6:211:LEU:HD12	2.15	0.46
55:s7:62:VAL:HA	55:s7:63:PRO:HD3	1.64	0.46
56:s8:136:SER:O	56:s8:139:ALA:N	2.26	0.46
57:s9:171:ARG:CZ	57:s9:174:ARG:HG2	2.46	0.46
66:c8:121:ALA:O	66:c8:125:ILE:HG13	2.14	0.46
68:d0:38:SER:O	68:d0:42:VAL:HB	2.15	0.46
73:d5:40:VAL:HG13	73:d5:41:ILE:H	1.80	0.46
1:1:561:C:H2'	1:1:562:C:H6	1.81	0.46
1:1:955:U:H2'	1:1:956:U:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1245:A:C3'	1:1:1246:G:H5''	2.46	0.46
1:1:1273:A:O2'	1:1:1274:A:OP1	2.31	0.46
1:1:1336:U:H2'	1:1:1337:A:H8	1.80	0.46
1:1:2727:A:C2	29:AB:43:ILE:HG23	2.50	0.46
1:1:2762:A:H2'	1:1:2763:U:C6	2.48	0.46
2:3:73:C:N4	21:0:19:VAL:HG11	2.30	0.46
6:l:23:PRO:HD2	6:l:26:PHE:HD2	1.81	0.46
9:o:121:LYS:HB2	22:2:133:ALA:HB3	1.97	0.46
13:s:99:THR:O	13:s:154:THR:OG1	2.32	0.46
16:v:135:VAL:HG21	16:v:151:ILE:HG21	1.96	0.46
24:6:13:ILE:HG13	24:6:85:TRP:CG	2.50	0.46
26:8:68:THR:HA	26:8:73:MET:HE3	1.97	0.46
31:AD:58:TYR:OH	35:AH:97:GLU:OE1	2.25	0.46
43:AP:26:THR:HB	43:AP:71:ARG:HB3	1.96	0.46
1:AR:599:C:H2'	1:AR:600:G:O4'	2.15	0.46
1:AR:1174:G:H1'	1:AR:1181:U:N3	2.30	0.46
1:AR:1742:U:H2'	1:AR:1743:G:C8	2.50	0.46
1:AR:2441:A:N1	1:AR:2442:G:H1'	2.30	0.46
1:AR:2853:A:H5'	12:CL:3:ARG:NH1	2.30	0.46
1:AR:2854:U:H5''	12:CL:160:PRO:HD3	1.98	0.46
6:CF:208:VAL:HA	6:CF:228:ALA:O	2.15	0.46
7:CG:86:TYR:CD2	7:CG:247:ILE:HG12	2.50	0.46
8:CH:58:LEU:HD21	8:CH:64:LEU:HB2	1.96	0.46
15:CO:113:THR:HG23	15:CO:116:GLU:H	1.81	0.46
28:DB:63:ALA:O	28:DB:67:LYS:HE3	2.15	0.46
28:DB:115:LYS:HZ2	28:DB:116:LYS:HE3	1.80	0.46
34:DH:37:THR:OG1	34:DH:39:GLN:OE1	2.34	0.46
37:DK:95:ALA:HA	37:DK:99:ARG:NH1	2.30	0.46
47:A:189:C:H2'	47:A:190:C:H5'	1.97	0.46
47:A:231:U:O2'	47:A:232:U:H5''	2.15	0.46
47:A:335:U:O2'	59:M:130:PRO:O	2.32	0.46
47:A:707:A:O2'	47:A:731:C:N4	2.49	0.46
47:A:900:A:H3'	47:A:901:G:N2	2.30	0.46
47:A:1533:C:OP2	73:a:77:ARG:NH1	2.46	0.46
48:B:67:ILE:HG13	48:B:73:VAL:CG1	2.45	0.46
53:G:73:THR:HG22	64:R:114:ARG:HD2	1.98	0.46
54:H:137:ARG:O	54:H:140:ASN:N	2.49	0.46
55:I:38:LEU:HA	55:I:41:LEU:HD13	1.97	0.46
55:I:165:LYS:O	55:I:168:SER:N	2.44	0.46
61:O:37:ILE:HG13	61:O:38:VAL:N	2.30	0.46
65:S:71:PHE:CD1	65:S:73:LEU:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:X:106:THR:HG23	70:X:108:ALA:H	1.80	0.46
74:b:5:ARG:HB2	74:b:8:ASN:HA	1.98	0.46
47:sR:151:G:H2'	47:sR:152:U:C6	2.50	0.46
47:sR:331:A:H5'	56:s8:33:PRO:HA	1.96	0.46
47:sR:488:G:H1'	47:sR:500:C:N4	2.30	0.46
47:sR:828:U:O4	47:sR:829:A:N6	2.47	0.46
47:sR:959:U:H5''	75:d7:28:PRO:HB3	1.96	0.46
47:sR:1170:G:C2	47:sR:1171:A:C8	3.03	0.46
47:sR:1204:A:H1'	47:sR:1554:U:O4	2.16	0.46
48:s0:90:ALA:HA	48:s0:95:ALA:CB	2.45	0.46
51:s3:181:VAL:O	51:s3:182:LEU:HD23	2.15	0.46
52:s4:148:ARG:NH1	54:s6:201:GLN:OE1	2.49	0.46
52:s4:154:ILE:HG12	52:s4:172:PHE:CD2	2.50	0.46
59:c1:21:ASN:ND2	59:c1:32:LYS:H	2.13	0.46
61:c3:55:ARG:HD2	61:c3:56:ASP:OD1	2.15	0.46
62:c4:99:GLN:HG2	74:d6:46:GLU:CD	2.40	0.46
63:c5:15:HIS:H	63:c5:22:LEU:HD22	1.79	0.46
63:c5:90:ILE:HA	63:c5:107:ILE:CG2	2.46	0.46
1:1:583:G:H5''	34:AG:106:ASN:HD21	1.80	0.46
1:1:1659:U:H2'	1:1:1660:C:H6	1.77	0.46
1:1:2357:A:H2'	1:1:2358:A:C8	2.50	0.46
1:1:3369:G:C6	5:k:380:MET:HG3	2.51	0.46
2:3:96:U:H2'	2:3:97:A:H8	1.81	0.46
3:4:8:C:H2'	3:4:9:A:C8	2.50	0.46
7:m:25:GLU:O	7:m:27:LYS:HG3	2.16	0.46
11:q:25:VAL:O	11:q:35:THR:HA	2.16	0.46
13:s:49:LYS:HA	13:s:64:LYS:H	1.80	0.46
13:s:155:THR:HG22	13:s:157:GLU:N	2.30	0.46
22:2:71:SER:HB2	22:2:91:LEU:O	2.15	0.46
24:6:77:ILE:HD13	24:6:126:TRP:CE2	2.50	0.46
26:8:57:LEU:HD12	26:8:57:LEU:HA	1.68	0.46
27:9:3:LYS:HG3	27:9:8:VAL:CG1	2.45	0.46
29:AB:2:PRO:HG2	29:AB:5:PHE:CD2	2.50	0.46
1:AR:1048:A:H2'	12:CL:22:TYR:CZ	2.51	0.46
1:AR:1465:A:H2'	1:AR:1466:G:O4'	2.15	0.46
1:AR:1729:A:OP1	31:DE:88:GLY:N	2.47	0.46
1:AR:3009:G:O6	81:AR:3426:OHX:N4	2.49	0.46
13:CM:91:LEU:HD12	13:CM:163:PHE:CZ	2.51	0.46
19:CS:85:GLY:O	19:CS:104:LEU:HB2	2.15	0.46
20:CT:98:ARG:O	20:CT:101:VAL:HG22	2.15	0.46
21:CU:33:ASN:OD1	21:CU:35:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DC:77:LYS:C	29:DC:79:TRP:H	2.23	0.46
31:DE:41:LEU:HA	31:DE:66:LYS:O	2.15	0.46
34:DH:49:ILE:HG12	34:DH:100:ILE:HG13	1.98	0.46
47:A:275:C:H2'	47:A:276:C:C6	2.51	0.46
47:A:380:U:C5	57:K:5:PRO:HB3	2.50	0.46
47:A:509:G:H2'	47:A:510:G:N9	2.31	0.46
47:A:651:G:H1	47:A:683:C:H42	1.64	0.46
47:A:1542:G:N2	47:A:1568:C:H1'	2.31	0.46
49:C:104:ASP:HA	49:C:214:LYS:HG2	1.96	0.46
49:C:191:GLU:HG3	49:C:195:LYS:NZ	2.30	0.46
50:D:143:TYR:CE1	50:D:151:PRO:HB3	2.50	0.46
51:E:65:ARG:HG3	51:E:69:LEU:CD1	2.45	0.46
52:F:72:VAL:HA	52:F:89:VAL:O	2.15	0.46
54:H:10:ASN:HB2	54:H:12:SER:OG	2.14	0.46
56:J:22:ARG:HG3	56:J:25:ARG:HH21	1.79	0.46
57:K:153:GLU:HG2	57:K:153:GLU:O	2.15	0.46
60:N:56:GLU:O	60:N:124:LYS:HB2	2.16	0.46
60:N:103:LEU:CD1	60:N:115:VAL:HA	2.39	0.46
60:N:124:LYS:HG3	60:N:125:ASN:HD22	1.81	0.46
62:P:92:LYS:O	62:P:92:LYS:HG2	2.16	0.46
67:U:25:GLN:NE2	67:U:27:LYS:O	2.34	0.46
70:X:46:TYR:HB3	70:X:69:LEU:HD13	1.97	0.46
72:Z:32:ARG:NH1	72:Z:35:VAL:HG23	2.30	0.46
74:b:51:ARG:HG3	74:b:52:ASP:N	2.29	0.46
47:sR:509:G:H2'	47:sR:510:G:C1'	2.45	0.46
47:sR:567:A:H4'	78:e0:13:LYS:HB3	1.96	0.46
47:sR:760:A:H2'	47:sR:761:G:O4'	2.15	0.46
47:sR:830:U:H2'	47:sR:831:U:H5'	1.96	0.46
47:sR:1427:A:O2'	47:sR:1428:G:OP1	2.28	0.46
80:Rb:69:GLN:HG2	80:Rb:111:MET:HE2	1.97	0.46
80:Rb:192:PHE:CE2	80:Rb:211:ILE:HD11	2.50	0.46
51:s3:116:ARG:HB2	51:s3:116:ARG:NH1	2.30	0.46
56:s8:67:TRP:HA	56:s8:183:ILE:CG2	2.46	0.46
69:d1:69:LEU:HD23	69:d1:69:LEU:HA	1.75	0.46
71:d3:8:GLY:O	71:d3:11:SER:OG	2.34	0.46
1:1:738:A:H2'	1:1:739:G:H8	1.80	0.46
1:1:1595:U:C2	1:1:1596:C:C5	3.04	0.46
1:1:1723:A:OP1	20:z:128:LYS:NZ	2.49	0.46
1:1:1940:G:N2	1:1:3362:A:C8	2.79	0.46
1:1:2218:G:H2'	1:1:2219:A:H8	1.81	0.46
1:1:2575:G:H2'	1:1:2576:G:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2636:A:H5''	1:1:2637:A:H5'	1.98	0.46
1:1:3006:A:H2'	1:1:3007:U:O4'	2.16	0.46
4:j:109:GLU:OE2	4:j:138:GLY:HA2	2.15	0.46
5:k:243:HIS:ND1	5:k:244:ARG:HG3	2.30	0.46
9:o:25:GLN:HA	9:o:28:ALA:HB3	1.98	0.46
10:p:162:LEU:HA	16:v:7:LEU:HD11	1.97	0.46
17:w:3:VAL:HG13	17:w:4:GLU:H	1.79	0.46
17:w:175:THR:HA	17:w:178:VAL:HG22	1.97	0.46
27:9:32:SER:O	27:9:101:PRO:HB2	2.15	0.46
43:AP:14:GLY:HA2	43:AP:79:THR:HG21	1.97	0.46
45:i:74:LYS:HE3	45:i:74:LYS:HB3	1.38	0.46
1:AR:773:G:N7	81:AR:3438:OHX:N5	2.63	0.46
1:AR:884:A:N7	1:AR:2139:A:C4	2.84	0.46
1:AR:992:A:O2'	1:AR:993:G:H5'	2.15	0.46
1:AR:1108:U:H2'	1:AR:1109:U:C6	2.51	0.46
1:AR:1481:A:H2'	1:AR:1481:A:N3	2.30	0.46
1:AR:1845:G:H5'	1:AR:1846:C:H5''	1.97	0.46
4:CD:19:HIS:CD2	4:CD:19:HIS:N	2.84	0.46
4:CD:202:VAL:HG22	4:CD:217:GLN:HG2	1.97	0.46
5:CE:109:HIS:O	5:CE:110:LEU:HD23	2.15	0.46
10:CJ:26:LEU:HD21	28:DB:122:HIS:O	2.16	0.46
16:CP:24:ARG:HE	16:CP:24:ARG:HB2	1.54	0.46
18:CR:132:ALA:O	18:CR:135:ARG:NH1	2.48	0.46
20:CT:167:ARG:NH2	47:sR:813:U:O3'	2.49	0.46
21:CU:155:ARG:HB2	21:CU:172:TYR:HB2	1.98	0.46
24:CX:125:LEU:HD23	24:CX:125:LEU:HA	1.81	0.46
25:CY:28:ILE:HD12	25:CY:28:ILE:H	1.79	0.46
26:CZ:96:LYS:O	26:CZ:100:LYS:HB2	2.16	0.46
27:DA:85:VAL:O	27:DA:85:VAL:HG23	2.16	0.46
29:DC:78:LEU:HD13	29:DC:78:LEU:O	2.15	0.46
34:DH:55:ALA:O	34:DH:63:LYS:HB3	2.16	0.46
37:DK:33:ALA:O	37:DK:38:LYS:HG3	2.15	0.46
46:p0:50:VAL:O	46:p0:87:VAL:HA	2.15	0.46
47:A:526:A:H2'	47:A:527:A:O4'	2.15	0.46
47:A:532:U:H5''	72:Z:64:PHE:CD1	2.46	0.46
47:A:1157:A:H61	47:A:1621:U:H3	1.61	0.46
47:A:1682:U:O2'	47:A:1683:C:H5'	2.15	0.46
49:C:137:ILE:HD13	49:C:172:LEU:HG	1.96	0.46
53:G:76:ARG:HB3	53:G:79:ASN:OD1	2.14	0.46
54:H:39:GLU:HG3	54:H:43:ASP:OD1	2.16	0.46
55:I:101:LYS:HA	55:I:112:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:L:7:ASP:OD2	58:L:37:THR:HG22	2.16	0.46
62:P:64:ALA:HB1	62:P:105:LEU:HD21	1.97	0.46
79:g:126:CYS:HB3	79:g:130:VAL:CG2	2.45	0.46
80:h:20:VAL:HG21	80:h:310:ILE:HG22	1.97	0.46
47:sR:116:U:H2'	47:sR:117:U:C6	2.49	0.46
47:sR:481:A:H2'	47:sR:482:U:C6	2.51	0.46
47:sR:500:C:O2'	47:sR:501:U:O4'	2.28	0.46
47:sR:607:G:H5'	47:sR:613:G:N2	2.31	0.46
47:sR:841:U:H2'	47:sR:842:C:C6	2.50	0.46
47:sR:1220:C:H5'	58:c0:52:LYS:HE3	1.97	0.46
47:sR:1267:G:H2'	47:sR:1268:G:C8	2.50	0.46
47:sR:1489:U:H5'	47:sR:1494:C:H1'	1.97	0.46
47:sR:1565:C:OP1	66:c8:41:ARG:HD3	2.15	0.46
47:sR:1620:C:HO2'	47:sR:1621:U:P	2.38	0.46
47:sR:1773:C:H2'	47:sR:1774:G:C8	2.50	0.46
80:Rb:9:LEU:HG	80:Rb:313:TRP:CD2	2.51	0.46
80:Rb:72:THR:HG21	80:Rb:122:ILE:HD11	1.97	0.46
51:s3:7:LYS:HE3	51:s3:7:LYS:HB3	1.81	0.46
51:s3:195:SER:O	51:s3:200:LYS:HE2	2.15	0.46
53:s5:94:THR:CG2	53:s5:114:ILE:HG12	2.45	0.46
57:s9:41:GLU:O	57:s9:45:ILE:HD13	2.16	0.46
63:c5:97:TYR:HE1	63:c5:100:LYS:C	2.23	0.46
65:c7:14:LYS:HE3	65:c7:68:GLY:O	2.15	0.46
68:d0:39:SER:O	68:d0:42:VAL:HG12	2.16	0.46
70:d2:105:THR:OG1	70:d2:126:LEU:HG	2.15	0.46
73:d5:74:SER:O	73:d5:77:ARG:NE	2.48	0.46
78:e0:35:TYR:CZ	78:e0:39:LEU:HD11	2.50	0.46
1:1:100:A:H2'	1:1:101:G:N3	2.31	0.46
1:1:290:G:H5''	16:v:98:LEU:HD11	1.98	0.46
1:1:1204:A:H2	1:1:2834:G:N3	2.14	0.46
1:1:1485:G:N2	35:AH:4:ARG:HD2	2.31	0.46
1:1:1764:U:H3'	1:1:1765:U:C4'	2.45	0.46
1:1:2176:U:OP1	4:j:54:ARG:NH2	2.42	0.46
1:1:2207:A:O2'	1:1:2208:A:H5'	2.16	0.46
1:1:3183:A:H2	1:1:3188:G:H4'	1.81	0.46
2:3:45:A:H2'	2:3:46:A:C8	2.51	0.46
6:l:16:THR:HG22	6:l:17:ALA:N	2.31	0.46
11:q:118:LEU:O	11:q:118:LEU:HD23	2.15	0.46
13:s:7:ASN:N	13:s:7:ASN:OD1	2.48	0.46
37:AJ:45:ARG:HH21	37:AJ:50:LEU:HA	1.81	0.46
37:AJ:57:LEU:HD11	37:AJ:73:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:167:U:H2'	1:AR:168:U:H6	1.80	0.46
1:AR:1638:A:OP1	35:DI:74:ARG:NH1	2.49	0.46
1:AR:2537:U:C5'	49:s1:226:GLY:HA2	2.43	0.46
1:AR:2765:C:O3'	43:DQ:39:GLY:HA3	2.15	0.46
1:AR:3159:C:H2'	1:AR:3160:U:H6	1.79	0.46
7:CG:51:LEU:HB2	7:CG:144:VAL:CG1	2.45	0.46
12:CL:140:THR:HG21	12:CL:144:ASN:HB3	1.96	0.46
13:CM:131:MET:O	13:CM:154:THR:HG21	2.16	0.46
28:DB:85:TYR:HE2	28:DB:129:TRP:CD2	2.34	0.46
29:DC:84:GLU:O	29:DC:87:ARG:HB2	2.16	0.46
31:DE:95:ALA:HB2	31:DE:101:LEU:HD11	1.96	0.46
44:DR:52:ALA:HB1	44:DR:68:ALA:O	2.15	0.46
47:A:1227:A:H3'	60:N:117:GLY:O	2.16	0.46
47:A:1340:U:O4	64:R:9:THR:HA	2.16	0.46
47:A:1638:G:H2'	47:A:1639:C:O4'	2.16	0.46
48:B:114:SER:O	48:B:116:LYS:HD2	2.16	0.46
49:C:65:VAL:O	62:P:34:SER:HA	2.15	0.46
53:G:68:ILE:HD12	53:G:69:PHE:H	1.80	0.46
64:R:97:VAL:HG12	64:R:98:ASP:N	2.30	0.46
68:V:20:ILE:HD11	68:V:94:GLU:CA	2.45	0.46
69:W:58:TYR:OH	70:X:20:THR:O	2.34	0.46
72:Z:41:ARG:HD2	72:Z:55:VAL:O	2.16	0.46
80:h:38:ARG:O	80:h:67:ILE:HD13	2.16	0.46
47:sR:1215:C:H2'	47:sR:1216:C:C6	2.51	0.46
47:sR:1251:U:C4'	79:e1:133:ALA:HB1	2.46	0.46
47:sR:1350:U:H2'	47:sR:1351:G:C8	2.51	0.46
47:sR:1525:A:H2'	47:sR:1526:A:C8	2.51	0.46
80:Rb:25:THR:OG1	80:Rb:26:SER:N	2.49	0.46
49:s1:126:THR:HG22	49:s1:136:ARG:HE	1.80	0.46
50:s2:143:TYR:CE1	50:s2:151:PRO:HB3	2.51	0.46
52:s4:95:THR:HG23	52:s4:97:GLU:CG	2.46	0.46
68:d0:46:GLU:HA	68:d0:49:ASN:N	2.31	0.46
70:d2:67:GLY:O	70:d2:68:ARG:HG2	2.15	0.46
73:d5:78:ILE:HA	73:d5:81:ARG:HB3	1.97	0.46
76:d8:8:THR:HG1	76:d8:56:LEU:H	1.62	0.46
1:1:700:C:OP1	14:t:65:TYR:OH	2.22	0.46
1:1:970:A:OP1	30:AC:18:ARG:HD3	2.16	0.46
1:1:1249:G:H2'	1:1:1250:G:C8	2.51	0.46
1:1:1671:C:H5''	20:z:60:LYS:HZ2	1.78	0.46
1:1:2101:C:O2'	1:1:2102:U:O5'	2.30	0.46
1:1:2103:U:H2'	1:1:2104:A:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2885:C:O2'	1:1:2886:U:H5'	2.15	0.46
1:1:3194:C:H2'	1:1:3195:U:H5''	1.98	0.46
7:m:15:ARG:HH11	7:m:15:ARG:HB3	1.81	0.46
7:m:61:ILE:HG23	7:m:79:TYR:CE1	2.50	0.46
9:o:192:GLY:H	9:o:195:PHE:HB2	1.80	0.46
10:p:54:GLU:O	10:p:58:VAL:HG23	2.16	0.46
23:5:80:THR:HG21	23:5:95:PHE:HD2	1.80	0.46
23:5:93:ILE:HG22	23:5:105:LEU:HG	1.98	0.46
45:i:122:GLU:OE2	51:E:117:ARG:NH1	2.48	0.46
1:AR:144:A:H2'	1:AR:145:G:O4'	2.15	0.46
1:AR:748:U:H2'	1:AR:749:C:C6	2.50	0.46
1:AR:1784:G:H2'	1:AR:1785:U:O4'	2.15	0.46
1:AR:2971:A:OP2	81:AR:3612:OHX:N3	2.49	0.46
1:AR:3013:U:H2'	1:AR:3014:U:C6	2.51	0.46
3:AT:68:G:OP1	38:DL:85:LYS:NZ	2.46	0.46
5:CE:350:ALA:O	5:CE:351:LEU:HB2	2.16	0.46
7:CG:290:ILE:HG23	12:CL:206:LEU:HD21	1.98	0.46
11:CK:124:ARG:HB3	11:CK:164:ILE:HG12	1.97	0.46
11:CK:181:VAL:HB	41:DO:89:TYR:OH	2.15	0.46
13:CM:52:TYR:CZ	45:sM:39:PRO:HD3	2.51	0.46
32:DF:8:VAL:CG2	32:DF:77:ARG:HH21	2.28	0.46
40:DN:36:ARG:HG3	40:DN:37:TYR:CE1	2.50	0.46
46:p0:63:ILE:CG2	46:p0:77:LEU:HD11	2.41	0.46
47:A:279:G:N7	47:A:281:G:C8	2.84	0.46
47:A:631:G:H2'	47:A:632:U:H6	1.80	0.46
47:A:1078:C:H2'	47:A:1079:U:H6	1.80	0.46
47:A:1223:A:H2'	47:A:1224:A:C8	2.50	0.46
47:A:1344:A:O2'	47:A:1345:A:C8	2.66	0.46
47:A:1391:A:H2'	47:A:1392:U:C6	2.50	0.46
47:A:1524:A:C6	47:A:1525:A:C6	3.04	0.46
47:A:1596:C:OP2	77:e:32:ARG:HD3	2.16	0.46
49:C:133:TYR:CD2	49:C:181:LEU:HD12	2.50	0.46
49:C:167:VAL:O	49:C:171:ILE:HG12	2.16	0.46
51:E:41:VAL:HG21	68:V:112:VAL:O	2.16	0.46
54:H:138:ALA:O	54:H:142:ARG:HG3	2.16	0.46
56:J:119:GLN:OE1	81:J:301:OHX:N2	2.49	0.46
58:L:6:GLU:O	58:L:10:LYS:HG3	2.16	0.46
59:M:92:HIS:HB2	59:M:103:ARG:HD2	1.97	0.46
60:N:140:PHE:C	60:N:140:PHE:CD1	2.94	0.46
60:N:142:GLN:OE1	60:N:142:GLN:HA	2.15	0.46
66:T:52:VAL:CG1	66:T:61:LEU:HD23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:a:85:LYS:HG3	73:a:86:GLU:CD	2.40	0.46
73:a:93:SER:OG	73:a:94:LYS:N	2.48	0.46
74:b:70:LYS:C	74:b:71:LEU:HD23	2.41	0.46
79:g:132:LEU:HB2	79:g:140:TYR:O	2.16	0.46
80:h:131:ILE:HG21	80:h:154:VAL:HG21	1.98	0.46
80:h:288:HIS:C	80:h:288:HIS:HD1	2.23	0.46
47:sR:585:A:H2'	47:sR:586:G:H8	1.80	0.46
47:sR:699:U:H2'	47:sR:700:C:C6	2.51	0.46
47:sR:1312:A:OP1	65:c7:2:GLY:N	2.49	0.46
47:sR:1351:G:H5''	64:c6:66:ARG:NH2	2.21	0.46
47:sR:1357:A:H2'	47:sR:1358:G:H8	1.80	0.46
49:s1:125:VAL:HG11	49:s1:173:THR:HG23	1.98	0.46
50:s2:65:GLU:HB3	50:s2:67:GLN:OE1	2.15	0.46
52:s4:49:ARG:HG3	52:s4:55:ALA:O	2.16	0.46
57:s9:29:LYS:NZ	57:s9:33:GLU:OE2	2.49	0.46
58:c0:54:TYR:C	58:c0:69:THR:HG22	2.41	0.46
58:c0:70:GLU:HG2	58:c0:71:GLU:N	2.31	0.46
69:d1:14:PRO:HB2	69:d1:23:ILE:HG23	1.96	0.46
73:d5:47:TYR:O	73:d5:50:ILE:N	2.30	0.46
1:1:19:U:O4	81:1:3503:OHX:N6	2.49	0.46
1:1:39:A:H5''	29:AB:35:ALA:HB2	1.97	0.46
1:1:277:G:H2'	1:1:278:U:C6	2.51	0.46
1:1:339:C:OP1	1:1:1380:G:O2'	2.25	0.46
1:1:1010:G:OP1	12:r:39:LYS:NZ	2.49	0.46
1:1:1709:C:H2'	1:1:1710:C:C6	2.51	0.46
1:1:2767:U:H2'	1:1:2768:U:C6	2.50	0.46
1:1:2772:C:OP2	43:AP:15:LYS:NZ	2.44	0.46
1:1:3060:C:H1'	1:1:3332:U:H1'	1.97	0.46
4:j:206:PRO:HD3	4:j:213:GLY:HA3	1.98	0.46
5:k:166:ILE:HD11	5:k:173:GLN:HB3	1.97	0.46
5:k:358:TRP:HZ2	5:k:371:GLN:NE2	2.14	0.46
6:l:174:ALA:HB1	6:l:178:LEU:HD23	1.97	0.46
7:m:262:LYS:H	7:m:262:LYS:CD	2.27	0.46
8:n:130:ILE:HG22	8:n:135:VAL:HG23	1.97	0.46
11:q:12:VAL:O	11:q:51:GLN:HB3	2.16	0.46
12:r:84:ALA:O	12:r:140:THR:HG22	2.15	0.46
12:r:86:HIS:HB3	12:r:139:ARG:CG	2.46	0.46
12:r:99:ILE:CG2	12:r:123:HIS:HB2	2.46	0.46
17:w:188:SER:O	17:w:192:LYS:HG3	2.16	0.46
40:AM:3:ALA:O	40:AM:4:GLN:HG2	2.16	0.46
1:AR:172:G:H5'	1:AR:173:G:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:736:A:C5	1:AR:737:G:H1'	2.51	0.46
1:AR:846:A:H2'	1:AR:847:A:O4'	2.16	0.46
1:AR:1263:A:H2'	1:AR:1263:A:N3	2.30	0.46
1:AR:1483:G:C8	1:AR:1485:G:C8	3.04	0.46
1:AR:1528:G:O2'	1:AR:1588:A:N3	2.34	0.46
1:AR:1954:G:H2'	1:AR:1955:U:C5	2.50	0.46
1:AR:2647:A:H4'	12:CL:22:TYR:HB3	1.97	0.46
1:AR:2768:U:H2'	1:AR:2769:A:C8	2.49	0.46
1:AR:3065:G:H2'	1:AR:3066:U:C6	2.50	0.46
3:AT:30:C:OP2	81:AT:201:OHX:N2	2.48	0.46
6:CF:139:GLY:O	6:CF:141:ARG:NH1	2.49	0.46
6:CF:264:SER:OG	6:CF:266:THR:HG23	2.16	0.46
7:CG:57:ASN:C	7:CG:58:LYS:HG2	2.40	0.46
14:CN:27:ASP:HB2	14:CN:31:LYS:HG3	1.98	0.46
17:CQ:58:LEU:HA	17:CQ:72:HIS:CD2	2.50	0.46
20:CT:13:SER:OG	20:CT:38:ARG:NH2	2.49	0.46
32:DF:16:LEU:HD12	32:DF:71:LEU:HD13	1.98	0.46
39:DM:31:LEU:O	39:DM:38:PHE:HE1	1.99	0.46
47:A:722:G:H3'	47:A:723:G:C5'	2.44	0.46
47:A:765:G:C8	57:K:149:ARG:CZ	2.99	0.46
47:A:1175:U:H2'	47:A:1176:G:H8	1.81	0.46
48:B:185:ARG:HA	48:B:185:ARG:HD2	1.83	0.46
49:C:62:LYS:HA	49:C:88:VAL:CB	2.44	0.46
49:C:85:LYS:O	49:C:86:LEU:HD12	2.15	0.46
50:D:63:VAL:HG21	50:D:69:ILE:HD11	1.98	0.46
53:G:90:ILE:O	53:G:94:THR:HG23	2.16	0.46
54:H:70:PRO:HB3	54:H:101:ILE:CG2	2.46	0.46
55:I:135:ILE:HG22	55:I:154:LEU:CD1	2.46	0.46
61:O:23:PRO:HG2	61:O:26:PHE:HB2	1.98	0.46
62:P:20:TYR:HB3	62:P:27:PHE:HB2	1.96	0.46
64:R:81:ILE:O	64:R:85:ILE:HG23	2.16	0.46
66:T:92:ILE:HG23	66:T:93:THR:HG23	1.98	0.46
68:V:35:GLU:HA	68:V:38:SER:HB3	1.98	0.46
68:V:51:VAL:HG13	68:V:94:GLU:HG2	1.98	0.46
47:sR:241:U:H2'	47:sR:242:U:H5	1.79	0.46
47:sR:752:A:C2'	47:sR:753:A:H5'	2.46	0.46
47:sR:1014:G:H2'	47:sR:1015:U:O4'	2.16	0.46
80:Rb:178:VAL:HG23	80:Rb:195:HIS:CE1	2.51	0.46
80:Rb:238:ASP:HB2	80:Rb:256:THR:OG1	2.15	0.46
49:s1:29:TRP:C	49:s1:30:PHE:CD1	2.94	0.46
49:s1:61:LEU:O	49:s1:64:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:126:THR:CG2	49:s1:136:ARG:HE	2.28	0.46
49:s1:180:THR:H	49:s1:183:GLN:HE21	1.64	0.46
50:s2:53:ILE:H	50:s2:53:ILE:HD12	1.81	0.46
50:s2:162:CYS:HB3	50:s2:209:ASN:O	2.16	0.46
50:s2:204:THR:O	50:s2:210:THR:HG21	2.16	0.46
52:s4:11:ARG:NH2	52:s4:20:LEU:HB3	2.30	0.46
52:s4:256:ARG:HA	52:s4:259:GLN:HB3	1.97	0.46
53:s5:114:ILE:O	53:s5:117:THR:N	2.49	0.46
54:s6:137:ARG:O	54:s6:141:ILE:HD12	2.16	0.46
55:s7:31:SER:HA	55:s7:34:LEU:H	1.80	0.46
63:c5:85:ILE:HA	63:c5:89:MET:HE1	1.97	0.46
67:c9:37:VAL:CG1	67:c9:100:ILE:HD11	2.46	0.46
1:l:208:C:OP2	6:l:163:LYS:NZ	2.49	0.46
1:l:283:G:O6	1:l:304:G:H1'	2.16	0.46
1:l:414:U:H2'	1:l:415:G:H8	1.81	0.46
1:l:3335:A:H2'	1:l:3336:A:C8	2.50	0.46
3:4:40:A:H2'	3:4:41:A:H8	1.79	0.46
6:l:257:LYS:O	6:l:261:VAL:HG12	2.16	0.46
10:p:130:TYR:HE1	10:p:202:GLU:HB2	1.80	0.46
40:AM:24:PRO:HB2	40:AM:27:ILE:HD12	1.98	0.46
1:AR:250:U:OP2	1:AR:251:G:H5''	2.16	0.46
1:AR:663:C:H2'	1:AR:664:U:C6	2.50	0.46
1:AR:1503:A:C4	1:AR:1504:A:C8	3.03	0.46
1:AR:1701:C:H2'	1:AR:1702:U:O4'	2.16	0.46
1:AR:1714:A:C5	1:AR:1728:G:C6	3.04	0.46
1:AR:1719:G:N7	20:CT:121:HIS:HE1	2.13	0.46
1:AR:1874:A:H5''	20:CT:18:GLY:HA3	1.97	0.46
1:AR:2261:G:H21	1:AR:2262:A:H61	1.60	0.46
1:AR:3232:G:H2'	1:AR:3233:C:H6	1.81	0.46
1:AR:3344:A:H2	1:AR:3361:G:H21	1.64	0.46
5:CE:221:THR:O	5:CE:272:TYR:HA	2.16	0.46
6:CF:206:LEU:O	6:CF:248:VAL:HA	2.15	0.46
7:CG:30:TYR:HD1	22:CV:27:LEU:HD21	1.81	0.46
7:CG:41:LYS:HD3	7:CG:41:LYS:HA	1.55	0.46
8:CH:97:ASN:O	8:CH:99:GLU:N	2.48	0.46
13:CM:156:LYS:O	13:CM:160:VAL:HG13	2.15	0.46
25:CY:54:LEU:HD23	25:CY:54:LEU:HA	1.74	0.46
27:DA:54:ASP:OD1	27:DA:115:ARG:NH1	2.44	0.46
33:DG:79:VAL:HG13	33:DG:111:ARG:HG2	1.98	0.46
41:DO:98:LYS:HG3	41:DO:118:THR:HG21	1.97	0.46
44:DR:80:ARG:HE	44:DR:80:ARG:HB2	1.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:p0:33:VAL:HG22	46:p0:34:SER:N	2.31	0.46
47:A:1235:C:H5'	79:g:146:SER:CB	2.45	0.46
47:A:1390:U:OP2	65:S:49:LYS:HE3	2.16	0.46
47:A:1424:A:OP1	51:E:151:LYS:HE3	2.16	0.46
47:A:1672:G:H2'	47:A:1673:G:H8	1.74	0.46
48:B:84:ARG:H	48:B:84:ARG:HG3	1.50	0.46
48:B:133:ILE:HD12	48:B:133:ILE:H	1.80	0.46
48:B:173:ILE:HA	48:B:176:LEU:HD12	1.97	0.46
49:C:97:LEU:HD12	49:C:232:HIS:NE2	2.31	0.46
50:D:116:LYS:HG2	50:D:117:THR:N	2.27	0.46
50:D:143:TYR:OH	50:D:151:PRO:HD3	2.15	0.46
52:F:19:LEU:HD21	52:F:108:ARG:CD	2.41	0.46
53:G:145:ASP:N	53:G:160:VAL:O	2.44	0.46
53:G:169:ASN:H	53:G:169:ASN:HD22	1.63	0.46
53:G:218:GLU:C	53:G:220:VAL:H	2.23	0.46
55:I:78:THR:OG1	55:I:82:GLU:OE2	2.29	0.46
55:I:82:GLU:O	55:I:86:GLN:HB3	2.16	0.46
58:L:35:ILE:HG22	58:L:36:ASP:N	2.31	0.46
58:L:70:GLU:O	58:L:73:VAL:HG12	2.16	0.46
63:Q:77:ARG:HD3	63:Q:102:PHE:CE1	2.51	0.46
66:T:23:ASP:HB3	66:T:26:ILE:CG2	2.45	0.46
66:T:30:TYR:HE1	66:T:40:ARG:HG2	1.80	0.46
67:U:107:ALA:O	67:U:108:LEU:HD12	2.15	0.46
80:h:122:ILE:O	80:h:133:VAL:HA	2.16	0.46
47:sR:1375:A:H2'	47:sR:1376:C:O4'	2.16	0.46
47:sR:1756:A:H8	47:sR:1756:A:O5'	1.98	0.46
80:Rb:9:LEU:HG	80:Rb:313:TRP:CE3	2.51	0.46
80:Rb:113:VAL:HG22	80:Rb:122:ILE:HD11	1.98	0.46
51:s3:15:GLY:C	77:d9:50:ILE:HG23	2.40	0.46
53:s5:162:VAL:HG22	53:s5:167:ARG:HG2	1.98	0.46
55:s7:75:THR:HA	55:s7:79:ARG:NH2	2.24	0.46
61:c3:61:THR:OG1	61:c3:62:GLN:N	2.49	0.46
64:c6:137:ARG:HA	64:c6:137:ARG:HE	1.81	0.46
73:d5:88:ILE:O	73:d5:104:ALA:HB2	2.16	0.46
1:1:70:A:N1	1:1:313:A:O2'	2.42	0.46
1:1:805:G:H1'	6:l:73:ARG:NH1	2.30	0.46
1:1:1176:C:H2'	1:1:1177:G:N2	2.31	0.46
1:1:1353:U:O2	8:n:10:TYR:N	2.41	0.46
1:1:1719:G:OP1	20:z:110:ARG:NH1	2.49	0.46
1:1:1804:A:H2'	1:1:1805:C:C6	2.51	0.46
1:1:2315:G:OP2	81:1:3504:OHX:N3	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2773:C:H2'	1:1:2774:C:H6	1.79	0.46
1:1:2948:C:O2'	5:k:242:THR:HG22	2.15	0.46
1:1:3047:U:O2'	1:1:3048:A:H5'	2.16	0.46
3:4:142:C:H5'	16:v:113:LEU:HD21	1.98	0.46
11:q:76:ASP:O	11:q:80:THR:HG23	2.16	0.46
12:r:165:ILE:HD12	12:r:165:ILE:O	2.15	0.46
12:r:191:LYS:NZ	12:r:213:PHE:H	2.14	0.46
20:z:171:ASP:HA	20:z:174:ALA:HB3	1.96	0.46
32:AE:97:LEU:H	32:AE:97:LEU:HD12	1.80	0.46
35:AH:93:PHE:CD2	35:AH:94:LEU:HD23	2.51	0.46
1:AR:374:A:N3	1:AR:376:G:H5''	2.31	0.46
1:AR:412:G:H2'	1:AR:413:U:C6	2.51	0.46
1:AR:824:C:H5''	4:CD:21:ARG:HD3	1.99	0.46
1:AR:926:A:H2'	1:AR:927:C:H6	1.81	0.46
1:AR:1178:G:H5'	34:DH:18:ARG:HD3	1.98	0.46
1:AR:2552:C:H2'	31:DE:50:VAL:HG11	1.98	0.46
1:AR:3337:G:H2'	1:AR:3338:C:C6	2.51	0.46
6:CF:148:ILE:HA	6:CF:149:PRO:C	2.41	0.46
11:CK:41:ILE:HD11	11:CK:67:ALA:CB	2.45	0.46
14:CN:62:THR:O	14:CN:65:TYR:N	2.42	0.46
14:CN:69:VAL:HG12	14:CN:149:GLN:OE1	2.16	0.46
20:CT:185:LEU:HD12	20:CT:186:LYS:N	2.31	0.46
21:CU:27:MET:HE2	21:CU:45:LEU:HD23	1.97	0.46
24:CX:93:LEU:HA	25:CY:20:LEU:O	2.16	0.46
30:DD:18:ARG:HA	30:DD:18:ARG:HD2	1.81	0.46
36:DJ:66:VAL:HA	36:DJ:69:LEU:CD2	2.45	0.46
45:sM:42:ALA:O	45:sM:43:ASP:HB3	2.15	0.46
47:A:29:U:H2'	47:A:30:G:C8	2.51	0.46
47:A:197:A:N6	56:J:141:ARG:HH22	2.14	0.46
47:A:253:A:H2'	47:A:254:A:C8	2.51	0.46
47:A:341:A:H2'	47:A:342:C:H6	1.81	0.46
47:A:1234:A:O2'	79:g:145:HIS:O	2.32	0.46
47:A:1469:A:H2'	47:A:1470:C:C6	2.51	0.46
47:A:1490:C:O2'	51:E:4:LEU:HD22	2.15	0.46
47:A:1580:C:H4'	64:R:137:ARG:HB2	1.98	0.46
47:A:1585:U:H4'	64:R:135:ARG:HD3	1.98	0.46
47:A:1588:G:OP1	81:A:2126:OHX:N5	2.49	0.46
48:B:103:THR:O	48:B:103:THR:OG1	2.33	0.46
48:B:172:LEU:O	48:B:175:TYR:HB3	2.16	0.46
52:F:121:TYR:CD2	52:F:161:LYS:HE3	2.50	0.46
52:F:181:VAL:HG12	52:F:227:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G:97:LEU:HA	53:G:180:ARG:NH2	2.31	0.46
54:H:175:ILE:HD11	54:H:178:LEU:HB2	1.98	0.46
55:I:141:ARG:CZ	55:I:143:LEU:HD11	2.45	0.46
61:O:54:LEU:O	61:O:58:HIS:HB2	2.16	0.46
62:P:12:GLN:HA	62:P:12:GLN:OE1	2.16	0.46
66:T:63:GLN:H	66:T:63:GLN:HG2	1.43	0.46
72:Z:74:LEU:HD13	72:Z:76:TYR:CE1	2.51	0.46
73:a:93:SER:CB	73:a:100:ILE:H	2.24	0.46
80:h:22:SER:HB3	80:h:71:CYS:SG	2.56	0.46
80:h:262:VAL:HG13	80:h:271:VAL:HB	1.98	0.46
47:sR:753:A:H2'	47:sR:754:A:O4'	2.15	0.46
47:sR:894:U:O2'	62:c4:36:LYS:HE3	2.16	0.46
47:sR:1439:C:H2'	47:sR:1440:C:C6	2.51	0.46
47:sR:1471:A:C2	47:sR:1474:G:N3	2.84	0.46
47:sR:1623:C:H2'	47:sR:1624:C:H6	1.80	0.46
48:s0:63:ILE:CG2	69:d1:36:VAL:HG22	2.45	0.46
50:s2:144:TRP:CE2	50:s2:173:PRO:HG3	2.50	0.46
51:s3:23:GLU:OE2	51:s3:27:ARG:NH1	2.49	0.46
53:s5:131:GLN:O	53:s5:135:ASP:HB2	2.15	0.46
55:s7:55:LYS:O	55:s7:56:LYS:HD2	2.16	0.46
56:s8:60:ILE:HG21	56:s8:179:CYS:HB2	1.98	0.46
57:s9:108:ARG:HH12	57:s9:126:ARG:HH21	1.63	0.46
59:c1:34:TRP:CH2	59:c1:36:LYS:HD3	2.51	0.46
63:c5:25:LEU:O	63:c5:28:MET:HB3	2.15	0.46
64:c6:22:VAL:HA	64:c6:64:ASP:O	2.16	0.46
66:c8:68:ARG:O	66:c8:72:ILE:HG13	2.16	0.46
66:c8:104:ASN:HA	66:c8:107:SER:OG	2.15	0.46
71:d3:53:VAL:HG23	71:d3:100:ASP:O	2.16	0.46
72:d4:52:LYS:HG3	72:d4:53:ASP:OD1	2.16	0.46
72:d4:60:PHE:CD2	72:d4:71:GLY:HA3	2.51	0.46
74:d6:10:ARG:HH11	74:d6:10:ARG:HG2	1.81	0.46
75:d7:14:SER:O	75:d7:17:ARG:HG2	2.16	0.46
1:1:655:C:H5''	33:AF:26:HIS:HB2	1.98	0.45
1:1:1264:G:H4'	1:1:1265:U:OP1	2.17	0.45
1:1:1405:U:OP2	33:AF:59:SER:OG	2.34	0.45
1:1:1911:A:H8	1:1:1911:A:O5'	1.99	0.45
1:1:2111:G:H5''	25:7:48:ARG:CZ	2.45	0.45
1:1:2296:A:OP1	81:1:3603:OHX:N2	2.48	0.45
1:1:2573:G:N7	81:1:3500:OHX:N1	2.65	0.45
1:1:2586:G:C5	10:p:241:LYS:HB2	2.50	0.45
1:1:2914:G:OP2	81:1:3539:OHX:N6	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3131:U:H2'	1:1:3132:C:C6	2.50	0.45
2:3:19:C:H2'	2:3:20:A:C8	2.52	0.45
3:4:6:U:H2'	3:4:7:U:C6	2.51	0.45
10:p:72:PRO:HG3	16:v:18:VAL:HA	1.98	0.45
12:r:207:GLU:HG3	12:r:208:ASN:H	1.80	0.45
15:u:8:LYS:H	15:u:8:LYS:HG2	1.53	0.45
28:AA:5:LEU:HD23	28:AA:5:LEU:HA	1.55	0.45
37:AJ:4:LYS:HD2	37:AJ:13:LYS:O	2.16	0.45
1:AR:8:C:H2'	1:AR:9:U:O4'	2.17	0.45
1:AR:122:A:N7	1:AR:146:U:N3	2.64	0.45
1:AR:498:A:O2'	1:AR:3273:A:N1	2.43	0.45
1:AR:1119:C:H2'	1:AR:1120:A:C8	2.51	0.45
2:AS:27:A:P	7:CG:57:ASN:H	2.39	0.45
7:CG:92:LEU:H	7:CG:92:LEU:HD23	1.80	0.45
7:CG:264:GLN:H	7:CG:264:GLN:HE21	1.63	0.45
10:CJ:52:TRP:HB3	10:CJ:56:VAL:HG11	1.98	0.45
10:CJ:166:LEU:HD23	10:CJ:166:LEU:HA	1.71	0.45
13:CM:41:SER:O	13:CM:75:LYS:NZ	2.44	0.45
13:CM:132:ASN:OD1	13:CM:132:ASN:C	2.59	0.45
14:CN:140:SER:OG	14:CN:143:ALA:N	2.38	0.45
14:CN:157:ARG:NH2	29:DC:146:GLU:OE2	2.49	0.45
18:CR:122:ALA:HB3	18:CR:143:PRO:HB2	1.99	0.45
20:CT:118:HIS:O	20:CT:122:VAL:HG23	2.16	0.45
24:CX:70:ARG:HB3	24:CX:70:ARG:NH1	2.30	0.45
30:DD:28:LYS:HG3	30:DD:29:TYR:N	2.32	0.45
31:DE:55:GLU:CA	35:DI:94:LEU:HD11	2.46	0.45
47:A:682:C:H2'	47:A:683:C:C6	2.52	0.45
47:A:918:U:H2'	47:A:919:A:H8	1.81	0.45
47:A:1237:G:H2'	47:A:1238:A:C8	2.51	0.45
47:A:1540:G:C4	47:A:1541:G:C8	3.04	0.45
47:A:1670:G:N7	81:A:2116:OHX:N5	2.64	0.45
47:A:1754:A:H4'	47:A:1755:A:O5'	2.15	0.45
48:B:55:GLU:OE1	69:W:80:LYS:N	2.49	0.45
49:C:32:ILE:CG1	49:C:43:VAL:HG11	2.46	0.45
51:E:44:THR:O	51:E:45:LYS:HD3	2.16	0.45
51:E:158:ILE:HD13	51:E:202:LEU:HD13	1.99	0.45
53:G:150:GLY:C	53:G:152:GLY:H	2.24	0.45
55:I:31:SER:O	55:I:34:LEU:N	2.42	0.45
58:L:12:HIS:ND1	58:L:79:TYR:HE2	2.10	0.45
59:M:37:ASN:HA	59:M:44:THR:OG1	2.17	0.45
60:N:133:LEU:O	60:N:133:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:O:57:ALA:C	61:O:58:HIS:HD1	2.24	0.45
62:P:109:GLY:O	62:P:110:LEU:HD13	2.16	0.45
66:T:28:ILE:O	66:T:32:LEU:HG	2.16	0.45
80:h:133:VAL:CG2	80:h:142:ALA:HB3	2.46	0.45
47:sR:68:A:H5'	54:s6:160:ARG:HH12	1.80	0.45
47:sR:121:U:H2'	47:sR:122:U:C6	2.51	0.45
47:sR:169:A:C4	47:sR:171:A:C8	3.04	0.45
47:sR:1085:G:O6	81:sR:1907:OHX:N5	2.49	0.45
47:sR:1389:C:H6	65:c7:28:PHE:CE2	2.34	0.45
80:Rb:295:SER:HB3	80:Rb:300:THR:O	2.16	0.45
53:s5:130:ILE:O	53:s5:134:VAL:HG22	2.16	0.45
53:s5:214:LYS:O	53:s5:214:LYS:HD2	2.16	0.45
66:c8:6:GLN:HG3	73:d5:44:GLN:OE1	2.16	0.45
67:c9:15:ILE:HG21	67:c9:60:SER:HB3	1.98	0.45
69:d1:3:ASN:ND2	69:d1:5:LYS:HB2	2.32	0.45
72:d4:41:ARG:HD2	72:d4:55:VAL:HG13	1.99	0.45
1:1:316:U:O2'	37:AJ:30:LYS:HD3	2.16	0.45
1:1:394:G:N7	81:1:3441:OHX:N6	2.64	0.45
1:1:811:U:H2'	1:1:812:G:C8	2.52	0.45
1:1:999:G:O2'	1:1:1000:C:H5'	2.15	0.45
1:1:1194:G:OP1	81:1:3477:OHX:N1	2.49	0.45
1:1:1763:U:H5'	1:1:1764:U:OP2	2.16	0.45
1:1:2232:A:H2'	1:1:2233:A:C8	2.51	0.45
1:1:2273:G:N2	1:1:2311:G:H2'	2.32	0.45
1:1:2630:C:H3'	22:2:4:SER:OG	2.16	0.45
1:1:2659:G:H4'	1:1:2751:G:O2'	2.15	0.45
1:1:3257:C:H2'	1:1:3258:U:O4'	2.16	0.45
5:k:10:ARG:CZ	5:k:14:LEU:HD21	2.46	0.45
5:k:213:GLU:OE2	5:k:214:MET:N	2.50	0.45
5:k:292:ALA:HB2	5:k:302:LYS:HA	1.97	0.45
7:m:155:THR:HA	7:m:179:ARG:HA	1.97	0.45
8:n:135:VAL:O	8:n:139:LYS:HG3	2.16	0.45
11:q:163:GLN:C	11:q:165:CYS:H	2.24	0.45
13:s:106:ILE:HD13	13:s:112:LEU:HD21	1.98	0.45
14:t:124:ILE:O	14:t:124:ILE:HG13	2.15	0.45
16:v:75:VAL:O	16:v:76:PRO:C	2.58	0.45
24:6:40:LYS:HE3	24:6:59:MET:HE2	1.98	0.45
36:AI:41:LEU:HD12	36:AI:43:LYS:HG2	1.98	0.45
43:AP:105:GLN:O	43:AP:106:PHE:HB3	2.17	0.45
1:AR:507:U:H2'	1:AR:508:U:H6	1.81	0.45
1:AR:650:C:H2'	1:AR:651:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1240:A:H2'	1:AR:1241:U:H5'	1.98	0.45
1:AR:1258:U:O2	1:AR:1260:A:H8	1.99	0.45
1:AR:1654:A:N3	35:DI:59:PRO:HB3	2.32	0.45
1:AR:2522:G:C6	4:CD:70:ARG:NH2	2.74	0.45
1:AR:2537:U:H1'	1:AR:2538:U:O4'	2.16	0.45
1:AR:2656:A:C4	1:AR:2658:G:N7	2.85	0.45
1:AR:3273:A:OP2	8:CH:77:ARG:NH2	2.49	0.45
3:AT:2:A:H2'	3:AT:3:A:H8	1.81	0.45
3:AT:85:G:H3'	3:AT:85:G:C8	2.51	0.45
3:AT:112:U:OP1	40:DN:8:ARG:NH1	2.48	0.45
10:CJ:73:PRO:HD3	10:CJ:233:TRP:CD1	2.51	0.45
11:CK:28:VAL:HG12	11:CK:33:THR:HB	1.98	0.45
13:CM:40:LEU:HD11	13:CM:79:ILE:HG12	1.97	0.45
13:CM:49:LYS:CB	13:CM:64:LYS:H	2.29	0.45
20:CT:159:ALA:HA	20:CT:162:ARG:CB	2.46	0.45
26:CZ:74:LYS:O	26:CZ:78:ASP:HB2	2.16	0.45
31:DE:10:ILE:HG21	31:DE:68:TYR:CE2	2.40	0.45
46:p0:28:VAL:O	46:p0:84:VAL:HG13	2.16	0.45
47:A:337:G:H3'	59:M:133:LYS:HB2	1.98	0.45
47:A:498:G:C8	47:A:499:U:N3	2.85	0.45
47:A:616:G:N7	71:Y:3:LYS:NZ	2.63	0.45
47:A:1136:U:OP1	71:Y:62:LYS:NZ	2.46	0.45
47:A:1392:U:H2'	47:A:1393:C:C6	2.51	0.45
47:A:1681:A:H1'	54:H:66:GLY:HA3	1.98	0.45
49:C:134:VAL:O	49:C:135:LEU:HB2	2.16	0.45
53:G:25:LEU:HD21	53:G:29:ILE:HG21	1.97	0.45
56:J:61:GLU:HG3	56:J:62:THR:CG2	2.45	0.45
66:T:11:PHE:HD1	66:T:59:GLY:HA3	1.80	0.45
66:T:36:LYS:H	66:T:102:ALA:HB2	1.81	0.45
69:W:16:LYS:NZ	69:W:21:ASN:ND2	2.62	0.45
70:X:102:VAL:HG13	70:X:113:HIS:HB3	1.98	0.45
71:Y:57:LEU:CD1	71:Y:73:ARG:HG3	2.41	0.45
73:a:42:LEU:HG	73:a:43:ASP:N	2.31	0.45
73:a:91:PRO:HA	73:a:101:TYR:CD1	2.51	0.45
80:h:117:LYS:NZ	80:h:159:ASN:O	2.47	0.45
47:sR:277:U:O2'	47:sR:278:U:OP1	2.28	0.45
47:sR:413:U:H2'	47:sR:414:C:C6	2.51	0.45
47:sR:514:G:N3	47:sR:515:A:C8	2.84	0.45
47:sR:648:G:C2	47:sR:687:G:C2	3.05	0.45
47:sR:906:A:H2'	47:sR:907:A:C8	2.50	0.45
47:sR:1438:G:H2'	47:sR:1439:C:H6	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1592:A:H2'	47:sR:1593:A:H8	1.82	0.45
47:sR:1705:C:H2'	47:sR:1706:C:C6	2.51	0.45
48:s0:116:LYS:HD2	48:s0:116:LYS:HA	1.59	0.45
49:s1:157:GLN:HB2	49:s1:160:HIS:CE1	2.51	0.45
49:s1:194:ASN:OD1	49:s1:194:ASN:N	2.48	0.45
53:s5:99:MET:O	53:s5:103:ASN:HB2	2.17	0.45
54:s6:84:TYR:OH	54:s6:91:GLU:O	2.28	0.45
56:s8:105:ASP:OD1	56:s8:107:THR:HG23	2.17	0.45
56:s8:117:TYR:CE2	56:s8:150:ALA:HA	2.51	0.45
61:c3:38:VAL:HG21	61:c3:78:ASN:ND2	2.30	0.45
63:c5:33:PHE:CD2	63:c5:87:PRO:HD3	2.50	0.45
68:d0:23:ARG:HB3	68:d0:117:VAL:CG1	2.39	0.45
73:d5:85:LYS:HD2	73:d5:86:GLU:N	2.31	0.45
73:d5:93:SER:OG	73:d5:100:ILE:HD11	2.17	0.45
1:l:981:U:O2'	1:l:982:C:OP1	2.34	0.45
1:l:3067:C:H3'	20:z:62:ARG:NH2	2.31	0.45
1:l:3138:U:OP2	5:k:30:LYS:HD3	2.15	0.45
1:l:3151:U:OP2	5:k:132:LYS:NZ	2.45	0.45
4:j:177:LYS:HD2	44:AQ:69:TYR:CE2	2.52	0.45
9:o:38:LYS:O	9:o:38:LYS:HD3	2.17	0.45
9:o:236:ILE:HD12	9:o:236:ILE:HA	1.84	0.45
11:q:92:TYR:N	11:q:92:TYR:CD1	2.85	0.45
12:r:161:GLY:O	12:r:163:GLN:NE2	2.49	0.45
12:r:193:ASP:HB3	12:r:196:PHE:O	2.16	0.45
14:t:74:GLY:HA3	14:t:98:ASP:N	2.31	0.45
14:t:187:ALA:HA	14:t:190:LYS:HE3	1.98	0.45
24:6:84:SER:HA	24:6:94:TYR:HB3	1.98	0.45
44:AQ:51:ALA:O	44:AQ:54:ILE:HD12	2.17	0.45
44:AQ:73:THR:HG23	44:AQ:76:ALA:H	1.81	0.45
1:AR:1730:G:N7	31:DE:28:LYS:HB2	2.32	0.45
1:AR:1916:U:H2'	1:AR:1917:C:C6	2.51	0.45
1:AR:3096:C:H2'	1:AR:3097:C:C6	2.51	0.45
2:AS:71:G:H2'	2:AS:72:A:C8	2.51	0.45
6:CF:326:ARG:O	9:CI:41:ARG:NH2	2.49	0.45
21:CU:155:ARG:NH2	21:CU:171:PHE:O	2.48	0.45
37:DK:97:SER:HB2	37:DK:98:ARG:NH1	2.31	0.45
42:DP:21:ARG:HD2	47:sR:1653:C:O3'	2.15	0.45
47:A:17:C:H4'	47:A:1109:G:C8	2.51	0.45
47:A:312:A:H4'	47:A:313:U:H5''	1.98	0.45
47:A:1278:G:O4'	51:E:174:HIS:HE1	1.99	0.45
48:B:153:SER:O	48:B:156:VAL:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:C:26:ARG:HH11	49:C:27:LYS:HG3	1.80	0.45
49:C:135:LEU:HD21	49:C:216:LYS:N	2.31	0.45
50:D:106:ASP:OD1	50:D:108:ASN:N	2.41	0.45
51:E:63:GLY:O	51:E:67:ASN:HB2	2.16	0.45
53:G:156:ARG:HA	53:G:157:ARG:NH1	2.31	0.45
56:J:88:ASN:H	56:J:88:ASN:ND2	2.14	0.45
57:K:34:PHE:CE2	57:K:106:GLU:HG2	2.50	0.45
58:L:3:MET:HE1	58:L:41:TYR:O	2.16	0.45
62:P:115:ILE:CD1	74:b:44:ILE:HG21	2.46	0.45
64:R:134:ALA:C	64:R:135:ARG:HD2	2.42	0.45
65:S:20:TYR:HB2	65:S:24:LEU:HD11	1.98	0.45
67:U:22:LEU:HA	67:U:25:GLN:HG2	1.99	0.45
73:a:71:ILE:HD11	73:a:75:LEU:C	2.41	0.45
47:sR:205:U:H2'	47:sR:206:A:H8	1.81	0.45
47:sR:248:U:H4'	59:c1:36:LYS:HD2	1.99	0.45
47:sR:354:C:H5''	56:s8:16:ALA:HB2	1.97	0.45
47:sR:478:A:O2'	57:s9:124:HIS:HD2	1.99	0.45
47:sR:887:A:H2'	47:sR:888:U:H6	1.80	0.45
47:sR:1017:U:C2	47:sR:1018:U:C5	3.05	0.45
47:sR:1070:C:O2'	47:sR:1071:U:H5'	2.16	0.45
47:sR:1207:C:H4'	47:sR:1208:A:OP1	2.17	0.45
80:Rb:260:ILE:HG23	80:Rb:292:LEU:HD11	1.98	0.45
48:s0:88:LYS:HD3	48:s0:201:LEU:HG	1.98	0.45
52:s4:191:ARG:CZ	52:s4:245:LYS:HG2	2.46	0.45
53:s5:42:LEU:O	53:s5:69:PHE:HD1	1.99	0.45
58:c0:8:ARG:O	58:c0:12:HIS:ND1	2.40	0.45
59:c1:110:HIS:HD2	59:c1:138:ASN:ND2	2.15	0.45
65:c7:21:TYR:CB	65:c7:71:PHE:HB2	2.47	0.45
70:d2:43:LYS:HB2	70:d2:43:LYS:HE3	1.50	0.45
71:d3:53:VAL:HG13	71:d3:72:VAL:HB	1.97	0.45
1:1:80:G:H2'	1:1:81:C:C6	2.51	0.45
1:1:847:A:H2'	1:1:848:A:C8	2.52	0.45
1:1:2710:C:H2'	1:1:2711:C:C6	2.52	0.45
2:3:65:G:O3'	12:r:204:GLY:HA2	2.16	0.45
6:l:157:GLU:HB3	6:l:211:GLU:O	2.16	0.45
6:l:362:ASP:C	22:2:150:THR:HG21	2.42	0.45
10:p:240:ASN:HA	10:p:243:GLN:HB3	1.98	0.45
15:u:118:PHE:O	15:u:122:VAL:HG23	2.16	0.45
27:9:60:ARG:HD3	27:9:60:ARG:HA	1.72	0.45
28:AA:134:LEU:HD11	35:AH:92:ALA:HB3	1.98	0.45
1:AR:756:U:H2'	1:AR:757:C:H6	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:870:G:N7	81:AR:3467:OHX:N5	2.64	0.45
1:AR:1104:G:H2'	1:AR:1105:A:C8	2.52	0.45
1:AR:1334:U:H2'	1:AR:1335:C:C6	2.52	0.45
1:AR:1927:G:C8	44:DR:16:VAL:HG12	2.50	0.45
1:AR:2157:G:N7	4:CD:152:SER:HB3	2.31	0.45
1:AR:2736:A:H4'	22:CV:71:SER:OG	2.16	0.45
1:AR:3225:C:C2	1:AR:3226:A:C8	3.05	0.45
81:AR:3592:OHX:N4	81:AS:3501:OHX:N3	2.64	0.45
5:CE:195:ALA:O	5:CE:199:PHE:HD1	2.00	0.45
5:CE:227:GLU:HB2	5:CE:270:ARG:HB3	1.98	0.45
12:CL:56:GLU:HB2	12:CL:58:GLU:OE2	2.16	0.45
18:CR:154:GLU:OE1	18:CR:155:GLU:N	2.50	0.45
19:CS:67:ILE:HG12	19:CS:81:VAL:HG21	1.97	0.45
81:CX:202:OHX:N4	47:sR:419:G:O6	2.49	0.45
47:A:45:U:O2	47:A:434:G:H1'	2.17	0.45
47:A:330:G:O2'	56:J:33:PRO:HB3	2.16	0.45
47:A:1003:A:H1'	47:A:1005:A:N7	2.31	0.45
47:A:1479:A:OP1	67:U:57:ARG:NH1	2.50	0.45
47:A:1683:C:O2'	47:A:1684:U:O5'	2.32	0.45
48:B:8:ASP:HB2	69:W:80:LYS:HZ2	1.80	0.45
49:C:116:LYS:HB3	49:C:117:TRP:HD1	1.82	0.45
49:C:141:ALA:HB1	49:C:207:LEU:HD21	1.96	0.45
49:C:205:PHE:CG	49:C:206:PRO:HD2	2.52	0.45
52:F:45:ILE:O	52:F:49:ARG:HB2	2.16	0.45
52:F:125:LYS:HE2	52:F:157:ASN:HA	1.98	0.45
53:G:97:LEU:CD2	53:G:114:ILE:HD11	2.44	0.45
54:H:145:PHE:CE2	54:H:158:ILE:HD11	2.51	0.45
54:H:175:ILE:CD1	54:H:178:LEU:HB2	2.46	0.45
55:I:67:LEU:HD23	55:I:71:HIS:HE1	1.80	0.45
59:M:86:ILE:O	59:M:106:ASN:HA	2.16	0.45
61:O:62:GLN:O	61:O:66:ILE:HD12	2.17	0.45
65:S:21:TYR:CE2	65:S:58:MET:HE1	2.50	0.45
65:S:104:ASN:O	65:S:107:SER:OG	2.35	0.45
66:T:60:GLU:C	66:T:61:LEU:HD12	2.42	0.45
70:X:122:SER:OG	70:X:123:GLY:N	2.49	0.45
71:Y:113:ALA:HB1	71:Y:120:VAL:O	2.15	0.45
72:Z:125:LEU:O	72:Z:129:VAL:HG23	2.16	0.45
47:sR:71:A:H2'	47:sR:72:A:C4'	2.46	0.45
47:sR:763:G:H2'	47:sR:764:U:C6	2.52	0.45
47:sR:1217:A:H4'	58:c0:44:LYS:CE	2.44	0.45
47:sR:1321:A:OP2	48:s0:101:ARG:NH2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1333:C:H2'	47:sR:1334:U:C6	2.51	0.45
47:sR:1597:A:OP1	77:d9:19:ARG:NH1	2.49	0.45
47:sR:1610:G:H5''	53:s5:107:LYS:HB2	1.99	0.45
80:Rb:20:VAL:HG21	80:Rb:310:ILE:HG12	1.98	0.45
48:s0:88:LYS:HZ1	65:c7:82:ASP:CG	2.24	0.45
49:s1:46:THR:HG22	49:s1:47:LEU:N	2.32	0.45
49:s1:179:SER:OG	49:s1:187:LYS:NZ	2.46	0.45
51:s3:67:ASN:O	51:s3:70:THR:OG1	2.29	0.45
51:s3:79:TYR:CD2	51:s3:84:ILE:HB	2.51	0.45
55:s7:62:VAL:HG13	55:s7:63:PRO:HD2	1.98	0.45
58:c0:28:ASN:H	58:c0:40:LEU:HD21	1.82	0.45
59:c1:91:LEU:HD21	59:c1:102:LYS:HD2	1.99	0.45
61:c3:26:PHE:CZ	61:c3:28:LEU:HB3	2.51	0.45
61:c3:26:PHE:CE2	61:c3:66:ILE:HD13	2.50	0.45
70:d2:14:ILE:HG22	70:d2:25:VAL:HG21	1.98	0.45
76:d8:25:VAL:CG1	76:d8:43:ASN:HB2	2.46	0.45
1:1:22:G:H1'	3:4:104:A:N3	2.32	0.45
1:1:314:U:H2'	1:1:315:C:H6	1.81	0.45
1:1:540:U:H2'	1:1:541:U:C6	2.52	0.45
1:1:693:A:H2'	1:1:694:C:H6	1.81	0.45
1:1:1580:A:OP2	1:1:2522:G:N1	2.49	0.45
1:1:1823:A:H2'	1:1:1824:U:C6	2.51	0.45
1:1:2203:U:H2'	1:1:2204:C:C6	2.51	0.45
1:1:2419:A:H1'	1:1:2804:A:O4'	2.16	0.45
1:1:2896:A:H4'	41:AN:95:VAL:HG11	1.98	0.45
1:1:2987:A:H2'	1:1:2988:C:C6	2.52	0.45
1:1:3337:G:H2'	1:1:3338:C:C6	2.51	0.45
81:1:4095:OHX:N4	16:v:32:GLN:O	2.49	0.45
5:k:282:ILE:HD13	5:k:322:ILE:HD12	1.98	0.45
5:k:299:ASP:OD1	5:k:301:THR:HG22	2.16	0.45
6:l:182:LEU:HD21	6:l:223:PRO:HG2	1.97	0.45
12:r:188:GLY:HA3	12:r:216:TYR:HD1	1.77	0.45
13:s:114:ILE:H	13:s:114:ILE:CD1	2.30	0.45
13:s:171:VAL:HG23	13:s:172:LEU:N	2.31	0.45
16:v:73:ARG:C	16:v:75:VAL:HG22	2.42	0.45
20:z:122:VAL:O	20:z:126:GLU:HG3	2.17	0.45
33:AF:83:GLU:O	33:AF:86:THR:HG23	2.16	0.45
36:AI:86:ARG:O	36:AI:90:ARG:HD2	2.17	0.45
39:AL:30:LYS:NZ	39:AL:40:GLN:OE1	2.31	0.45
1:AR:544:C:O2'	1:AR:547:G:N2	2.37	0.45
1:AR:692:A:C4	1:AR:693:A:C8	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1238:C:O2'	1:AR:1239:C:O5'	2.34	0.45
1:AR:1334:U:O2'	9:CI:151:ARG:NH2	2.49	0.45
1:AR:1497:C:H2'	1:AR:1498:A:H8	1.81	0.45
1:AR:2689:A:N3	1:AR:2689:A:H2'	2.31	0.45
1:AR:3112:G:N7	81:AR:3419:OHX:N6	2.64	0.45
1:AR:3191:G:H2'	1:AR:3192:U:C6	2.51	0.45
6:CF:26:PHE:HE1	6:CF:258:LEU:HD23	1.80	0.45
9:CI:239:LEU:O	9:CI:243:MET:HG3	2.17	0.45
11:CK:10:ILE:HD13	11:CK:75:VAL:HG21	1.98	0.45
11:CK:93:VAL:O	11:CK:177:ASP:HA	2.17	0.45
28:DB:42:LEU:HD11	28:DB:98:THR:HA	1.97	0.45
28:DB:61:LYS:O	28:DB:64:LYS:HB3	2.16	0.45
40:DN:50:ASN:O	40:DN:51:ILE:HG22	2.15	0.45
45:sM:83:LYS:HD2	45:sM:83:LYS:HA	1.59	0.45
47:A:1580:C:H2'	47:A:1581:C:C6	2.51	0.45
49:C:63:GLY:C	49:C:64:ARG:HD2	2.42	0.45
49:C:119:THR:OG1	49:C:155:TYR:HD1	1.99	0.45
50:D:43:ARG:H	50:D:43:ARG:HG3	1.53	0.45
51:E:40:ARG:HH12	68:V:110:PRO:CB	2.12	0.45
55:I:158:ASP:CG	55:I:161:GLN:HE21	2.25	0.45
57:K:27:GLU:CB	57:K:39:LYS:HZ2	2.28	0.45
64:R:79:TYR:HA	64:R:82:ARG:HD3	1.97	0.45
66:T:49:LYS:HD3	66:T:49:LYS:HA	1.70	0.45
71:Y:53:VAL:HG13	71:Y:72:VAL:HB	1.99	0.45
79:g:105:TYR:HD2	79:g:118:ARG:HH22	1.64	0.45
80:h:242:SER:H	80:h:255:ALA:HB3	1.81	0.45
47:sR:79:C:P	54:s6:159:ARG:HH22	2.40	0.45
47:sR:187:G:O3'	56:s8:138:ASN:ND2	2.49	0.45
47:sR:208:U:H1'	56:s8:178:ARG:HE	1.81	0.45
47:sR:1561:U:H2'	47:sR:1562:G:H8	1.82	0.45
47:sR:1608:U:O3'	64:c6:73:GLY:HA3	2.17	0.45
47:sR:1639:C:H2'	47:sR:1640:C:O4'	2.16	0.45
47:sR:1720:G:O6	81:sR:1950[A]:OHX:N6	2.50	0.45
80:Rb:9:LEU:HD23	80:Rb:313:TRP:N	2.31	0.45
80:Rb:12:THR:HG23	80:Rb:14:GLU:OE2	2.16	0.45
80:Rb:132:LYS:HA	80:Rb:143:THR:HG23	1.98	0.45
80:Rb:256:THR:HG23	80:Rb:259:GLY:N	2.31	0.45
80:Rb:299:GLN:HA	80:Rb:315:VAL:HG22	1.99	0.45
49:s1:149:GLN:NE2	49:s1:151:LYS:HE3	2.31	0.45
51:s3:86:LEU:O	51:s3:87:TYR:HD1	2.00	0.45
53:s5:192:GLU:O	53:s5:196:GLU:N	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s6:75:LEU:O	54:s6:94:ARG:HA	2.17	0.45
55:s7:41:LEU:HD23	55:s7:70:PHE:CD1	2.51	0.45
58:c0:1:MET:O	58:c0:3:MET:HB2	2.16	0.45
61:c3:128:TYR:O	61:c3:132:VAL:HG22	2.17	0.45
73:d5:51:LEU:CD2	73:d5:88:ILE:HG12	2.46	0.45
1:1:499:G:H2'	1:1:500:C:C6	2.51	0.45
1:1:1355:A:H1'	1:1:1356:U:OP2	2.16	0.45
1:1:2361:A:H2'	1:1:2362:C:H6	1.81	0.45
1:1:2927:C:H2'	1:1:2928:C:H6	1.79	0.45
81:1:3567:OHX:N2	81:1:4139:OHX:N2	2.64	0.45
4:j:98:VAL:HG23	4:j:167:GLY:HA3	1.97	0.45
6:l:295:ILE:HG22	6:l:299:ILE:HD11	1.99	0.45
6:l:302:ALA:HB2	19:y:39:ARG:CZ	2.47	0.45
8:n:8:LYS:O	8:n:8:LYS:HG3	2.15	0.45
14:t:74:GLY:CA	14:t:98:ASP:HB2	2.45	0.45
20:z:90:PRO:O	20:z:93:VAL:HG12	2.17	0.45
24:6:28:ASN:HD21	24:6:112:SER:H	1.63	0.45
28:AA:78:ASN:OD1	31:AD:35:ARG:NH2	2.47	0.45
40:AM:25:GLN:HE22	40:AM:28:ARG:HE	1.64	0.45
43:AP:98:LYS:HG3	43:AP:99:GLN:H	1.81	0.45
1:AR:594:U:O2'	1:AR:595:G:H5'	2.17	0.45
1:AR:826:G:C5	1:AR:900:G:O6	2.70	0.45
1:AR:2245:C:O4'	4:CD:222:ALA:HA	2.17	0.45
1:AR:2352:A:H2'	1:AR:2353:G:C8	2.52	0.45
1:AR:2571:U:H4'	1:AR:2572:C:OP1	2.17	0.45
1:AR:2678:A:O2'	45:sM:41:SER:O	2.24	0.45
1:AR:3231:U:H2'	1:AR:3232:G:H8	1.80	0.45
1:AR:3383:G:H2'	1:AR:3384:U:H6	1.81	0.45
2:AS:103:A:H2'	2:AS:104:A:O4'	2.16	0.45
4:CD:83:HIS:NE2	4:CD:86:GLN:HB2	2.32	0.45
4:CD:83:HIS:CE1	4:CD:86:GLN:HB2	2.51	0.45
4:CD:206:PRO:HG3	4:CD:213:GLY:HA3	1.98	0.45
5:CE:79:VAL:HG21	5:CE:338:LEU:HD11	1.99	0.45
6:CF:39:PHE:CD1	6:CF:242:ALA:HB2	2.51	0.45
10:CJ:41:GLN:OE1	10:CJ:44:ARG:NH1	2.50	0.45
14:CN:185:LYS:HD3	14:CN:188:ARG:HG2	1.98	0.45
18:CR:52:LEU:HG	18:CR:88:VAL:HG21	1.98	0.45
19:CS:62:VAL:O	19:CS:87:VAL:HA	2.16	0.45
20:CT:96:ILE:HG13	20:CT:97:ARG:N	2.32	0.45
24:CX:109:MET:SD	24:CX:129:VAL:HA	2.57	0.45
28:DB:98:THR:O	28:DB:101:PHE:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DG:18:LYS:HD3	33:DG:30:GLU:CD	2.41	0.45
36:DJ:119:LYS:HE2	36:DJ:119:LYS:HA	1.97	0.45
45:sM:52:PRO:O	45:sM:54:PRO:HD3	2.16	0.45
47:A:279:G:H2'	47:A:281:G:H5'	1.98	0.45
47:A:322:G:HO2'	56:J:10:LYS:NZ	2.14	0.45
47:A:404:G:H2'	47:A:405:C:H6	1.79	0.45
47:A:838:G:N7	81:A:1907:OHX:N3	2.65	0.45
47:A:1147:A:OP2	50:D:91:ARG:NH2	2.50	0.45
47:A:1174:C:H2'	47:A:1175:U:O4'	2.16	0.45
47:A:1235:C:H5'	79:g:146:SER:HB2	1.98	0.45
47:A:1516:A:C8	68:V:59:PRO:HD2	2.51	0.45
49:C:24:PHE:CD1	62:P:74:VAL:HG23	2.45	0.45
50:D:230:TRP:CD2	70:X:68:ARG:HD3	2.51	0.45
52:F:124:GLY:O	52:F:160:VAL:HG22	2.17	0.45
53:G:63:GLN:HG3	53:G:86:GLN:O	2.17	0.45
55:I:39:ARG:HH11	55:I:39:ARG:HG2	1.81	0.45
55:I:43:PHE:HB2	55:I:61:PHE:O	2.16	0.45
57:K:93:LEU:O	57:K:96:VAL:HG22	2.17	0.45
58:L:38:LYS:O	58:L:42:VAL:HG23	2.17	0.45
64:R:27:GLY:N	64:R:63:ILE:O	2.42	0.45
66:T:104:ASN:ND2	66:T:108:LYS:HG2	2.31	0.45
80:h:217:ASP:OD1	80:h:217:ASP:N	2.49	0.45
47:sR:413:U:H2'	47:sR:414:C:H6	1.81	0.45
47:sR:1252:C:H4'	79:e1:131:PHE:O	2.17	0.45
47:sR:1316:G:O2'	47:sR:1401:A:O2'	2.14	0.45
47:sR:1531:G:H2'	47:sR:1532:U:C6	2.51	0.45
47:sR:1622:G:H2'	47:sR:1623:C:C6	2.52	0.45
47:sR:1624:C:H2'	47:sR:1625:C:H6	1.81	0.45
80:Rb:72:THR:HB	80:Rb:113:VAL:HG13	1.99	0.45
80:Rb:116:ASP:HB3	80:Rb:156:VAL:HG21	1.99	0.45
80:Rb:172:ALA:HB2	80:Rb:202:LEU:HD13	1.99	0.45
48:s0:155:PHE:O	69:d1:60:ARG:NH1	2.50	0.45
48:s0:155:PHE:HE1	69:d1:30:ALA:HB1	1.81	0.45
48:s0:167:LYS:C	48:s0:169:SER:H	2.23	0.45
49:s1:39:GLU:H	49:s1:74:GLN:NE2	2.14	0.45
49:s1:168:ILE:HG22	49:s1:172:LEU:HD11	1.97	0.45
51:s3:17:PHE:CE1	51:s3:77:PHE:CE2	3.05	0.45
53:s5:25:LEU:H	53:s5:25:LEU:HD23	1.82	0.45
55:s7:76:LYS:H	55:s7:76:LYS:HG3	1.63	0.45
62:c4:39:ILE:HD12	62:c4:40:ALA:H	1.81	0.45
1:1:167:U:H2'	1:1:168:U:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:689:U:O4	6:l:209:TYR:HE2	2.00	0.45
1:1:1018:G:H2'	1:1:1019:G:C8	2.52	0.45
1:1:1268:G:H8	1:1:1268:G:OP2	2.00	0.45
1:1:2118:C:H2'	1:1:2119:A:O4'	2.17	0.45
3:4:91:C:H2'	3:4:92:A:H8	1.81	0.45
19:y:170:ARG:HH11	29:AB:57:GLY:H	1.65	0.45
24:6:54:LEU:HB2	24:6:81:GLN:HE21	1.82	0.45
24:6:89:ASP:OD1	24:6:89:ASP:C	2.59	0.45
26:8:106:ASP:HB3	26:8:127:THR:CG2	2.46	0.45
29:AB:112:ILE:HB	29:AB:130:VAL:HG12	1.99	0.45
33:AF:12:LYS:HD2	33:AF:57:TYR:HA	1.98	0.45
1:AR:864:G:OP2	81:AR:3418:OHX:N4	2.50	0.45
1:AR:1699:A:H2'	1:AR:1700:G:C8	2.52	0.45
1:AR:2528:G:H5''	10:CJ:248:LYS:NZ	2.32	0.45
5:CE:107:ALA:HA	5:CE:199:PHE:HD2	1.82	0.45
13:CM:108:GLU:HG2	13:CM:122:ILE:HG21	1.98	0.45
23:CW:94:ARG:HG2	23:CW:94:ARG:NH1	2.31	0.45
32:DF:68:GLU:HB2	32:DF:71:LEU:CD1	2.47	0.45
38:DL:8:PHE:O	38:DL:11:ARG:HG3	2.17	0.45
46:p0:25:LEU:O	46:p0:190:VAL:HG23	2.16	0.45
47:A:15:U:H2'	47:A:16:G:O4'	2.16	0.45
47:A:190:C:N4	47:A:196:G:O6	2.49	0.45
47:A:332:U:OP2	56:J:56:ARG:NH2	2.48	0.45
47:A:587:C:H2'	47:A:588:U:C6	2.50	0.45
47:A:654:C:H3'	47:A:655:G:H5''	1.99	0.45
47:A:735:C:O2'	47:A:736:C:OP2	2.30	0.45
47:A:946:U:H2'	47:A:947:U:C6	2.51	0.45
47:A:1357:A:C6	47:A:1367:G:C6	3.04	0.45
47:A:1459:C:OP1	66:T:126:ARG:NH1	2.49	0.45
47:A:1717:G:C2	47:A:1718:G:C8	3.04	0.45
48:B:53:THR:HG22	48:B:161:PRO:CG	2.45	0.45
48:B:69:ASN:HD21	50:D:244:SER:C	2.25	0.45
49:C:195:LYS:O	49:C:198:GLU:HG2	2.16	0.45
51:E:34:TYR:OH	51:E:37:VAL:HG13	2.16	0.45
51:E:43:PRO:HG3	68:V:114:VAL:HG23	1.99	0.45
51:E:202:LEU:HD23	51:E:202:LEU:H	1.82	0.45
52:F:247:SER:O	52:F:251:GLU:HG2	2.17	0.45
53:G:113:ILE:HG23	53:G:191:ALA:HB2	1.99	0.45
55:I:58:LEU:O	55:I:90:VAL:HA	2.17	0.45
56:J:36:THR:O	56:J:96:LEU:N	2.47	0.45
60:N:29:LYS:HE2	60:N:100:TRP:HE1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N:52:LEU:HD21	60:N:81:ASP:OD2	2.17	0.45
61:O:4:MET:HG3	61:O:5:HIS:N	2.31	0.45
63:Q:23:GLU:O	63:Q:26:LEU:HD22	2.17	0.45
74:b:7:SER:O	74:b:7:SER:OG	2.33	0.45
80:h:201:THR:OG1	80:h:242:SER:HA	2.17	0.45
80:h:202:LEU:HA	80:h:202:LEU:HD12	1.41	0.45
47:sR:74:U:C2	47:sR:76:A:H5''	2.52	0.45
47:sR:94:U:H4'	52:s4:6:LYS:HA	1.99	0.45
47:sR:512:A:H2'	47:sR:513:U:C6	2.52	0.45
47:sR:647:G:N2	47:sR:688:G:C4	2.85	0.45
47:sR:1248:C:H2'	47:sR:1249:U:C6	2.52	0.45
47:sR:1688:U:O2	47:sR:1713:G:N2	2.36	0.45
80:Rb:135:THR:OG1	80:Rb:139:GLN:N	2.50	0.45
80:Rb:144:LEU:HD13	80:Rb:181:TRP:CE3	2.51	0.45
80:Rb:194:GLY:C	80:Rb:221:MET:HE1	2.41	0.45
48:s0:85:ALA:HB1	48:s0:174:TRP:CB	2.47	0.45
49:s1:180:THR:CG2	49:s1:183:GLN:H	2.30	0.45
49:s1:194:ASN:ND2	49:s1:211:HIS:HA	2.32	0.45
50:s2:63:VAL:HG11	50:s2:69:ILE:HD11	1.98	0.45
51:s3:142:LEU:HD22	51:s3:142:LEU:H	1.81	0.45
53:s5:189:THR:O	53:s5:193:THR:HG23	2.17	0.45
54:s6:195:VAL:O	54:s6:199:GLN:HG2	2.17	0.45
58:c0:23:ALA:HB1	58:c0:43:ILE:HD13	1.99	0.45
59:c1:16:GLN:HB2	59:c1:19:ILE:HG12	1.99	0.45
61:c3:54:LEU:HB3	61:c3:60:VAL:CG1	2.46	0.45
70:d2:30:SER:HB3	70:d2:59:GLY:HA3	1.99	0.45
1:l:290:G:OP1	16:v:98:LEU:HD12	2.16	0.45
1:l:662:U:OP1	29:AB:8:THR:HG21	2.16	0.45
1:l:1144:U:H1'	1:l:1145:G:C8	2.51	0.45
1:l:1184:A:H2'	1:l:1185:C:C6	2.52	0.45
1:l:1472:U:H2'	1:l:1473:G:H8	1.82	0.45
1:l:1481:A:H2'	1:l:1481:A:N3	2.32	0.45
1:l:1599:G:OP1	81:l:3608[A]:OHX:N3	2.50	0.45
1:l:2357:A:H2'	1:l:2358:A:H8	1.81	0.45
1:l:2623:G:C4	1:l:2624:G:C8	3.04	0.45
1:l:3231:U:H2'	1:l:3232:G:C8	2.51	0.45
1:l:3332:U:H2'	1:l:3333:G:O4'	2.16	0.45
1:l:3393:U:H2'	1:l:3394:U:H6	1.81	0.45
2:3:92:A:H4'	12:r:11:TYR:CE1	2.51	0.45
5:k:41:VAL:CG1	5:k:185:GLY:HA3	2.46	0.45
6:l:216:VAL:HG23	6:l:217:LYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:o:214:TRP:CD2	9:o:219:LYS:HD2	2.51	0.45
12:r:191:LYS:HZ1	12:r:213:PHE:H	1.63	0.45
13:s:23:VAL:C	13:s:25:GLU:H	2.23	0.45
19:y:60:PRO:HG2	19:y:142:GLY:C	2.42	0.45
24:6:79:VAL:HG23	24:6:80:ARG:HG3	1.99	0.45
36:AI:44:ILE:O	36:AI:48:ARG:HG2	2.16	0.45
42:AO:13:LEU:O	42:AO:17:ARG:HG2	2.16	0.45
1:AR:39:A:H5'	29:DC:35:ALA:HB2	1.97	0.45
1:AR:139:G:H2'	1:AR:140:C:C6	2.52	0.45
1:AR:1252:A:H2'	1:AR:1253:U:H5'	1.99	0.45
1:AR:1282:G:C5	1:AR:1283:C:C5	3.05	0.45
1:AR:2746:A:C8	7:CG:153:THR:HG21	2.52	0.45
1:AR:3107:U:H2'	1:AR:3108:G:H8	1.82	0.45
1:AR:3214:U:H4'	34:DH:3:GLU:HG2	1.97	0.45
3:AT:27:U:H4'	6:CF:51:ALA:HB3	1.99	0.45
5:CE:300:ARG:HA	5:CE:300:ARG:NE	2.32	0.45
6:CF:138:ARG:HH21	6:CF:240:PRO:HB2	1.81	0.45
6:CF:187:LEU:HD12	6:CF:198:ARG:O	2.17	0.45
11:CK:94:TYR:CD1	11:CK:98:PRO:HA	2.52	0.45
13:CM:59:ILE:O	13:CM:59:ILE:HG13	2.16	0.45
23:CW:23:THR:OG1	23:CW:24:GLU:OE2	2.35	0.45
32:DF:37:LYS:HA	32:DF:49:VAL:HG11	1.98	0.45
47:A:121:U:H1'	52:F:33:ALA:O	2.17	0.45
47:A:838:G:H2'	47:A:839:U:H6	1.82	0.45
47:A:1150:G:N2	47:A:1768:G:H2'	2.32	0.45
47:A:1228:G:N2	60:N:67:THR:OG1	2.48	0.45
48:B:42:PRO:HD3	65:S:105:GLN:NE2	2.32	0.45
51:E:71:LEU:HA	51:E:74:GLN:HE21	1.82	0.45
51:E:223:LYS:CD	51:E:224:ASP:H	2.29	0.45
53:G:130:ILE:O	53:G:130:ILE:HG13	2.17	0.45
53:G:220:VAL:HA	53:G:223:SER:H	1.80	0.45
56:J:165:LEU:HD13	56:J:183:ILE:HD13	1.98	0.45
57:K:41:GLU:O	57:K:45:ILE:HD13	2.16	0.45
57:K:108:ARG:HH21	57:K:145:SER:CB	2.28	0.45
57:K:143:ILE:HG22	57:K:145:SER:H	1.82	0.45
58:L:44:LYS:HA	58:L:47:GLN:H	1.82	0.45
64:R:114:ARG:CZ	64:R:114:ARG:HA	2.46	0.45
73:a:89:ILE:C	73:a:89:ILE:HD12	2.42	0.45
47:sR:142:G:OP2	54:s6:177:ARG:HD3	2.17	0.45
47:sR:249:U:H3'	47:sR:250:C:H5'	1.99	0.45
47:sR:304:U:H2'	47:sR:305:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:748:U:OP1	70:d2:82:LYS:HE3	2.17	0.45
47:sR:1320:U:O2	47:sR:1322:A:H5'	2.16	0.45
47:sR:1494:C:H2'	47:sR:1495:C:C6	2.52	0.45
47:sR:1505:A:C5	47:sR:1506:G:H1'	2.51	0.45
47:sR:1544:U:H2'	47:sR:1545:A:O4'	2.16	0.45
80:Rb:19:TRP:HB2	80:Rb:38:ARG:CG	2.46	0.45
48:s0:66:ALA:HB2	69:d1:37:ALA:HB2	1.99	0.45
49:s1:160:HIS:CD2	49:s1:204:ILE:HD11	2.52	0.45
50:s2:39:THR:HG22	50:s2:65:GLU:CD	2.42	0.45
50:s2:59:HIS:CE1	50:s2:239:PRO:HD3	2.51	0.45
50:s2:73:LEU:O	50:s2:76:LEU:HD22	2.16	0.45
53:s5:197:GLU:OE2	53:s5:209:TYR:N	2.50	0.45
53:s5:218:GLU:HB2	53:s5:219:ARG:CZ	2.46	0.45
57:s9:122:VAL:O	57:s9:125:ALA:HB3	2.17	0.45
58:c0:6:GLU:HA	58:c0:9:ASN:ND2	2.22	0.45
61:c3:27:LYS:HE2	61:c3:27:LYS:HB2	1.87	0.45
70:d2:15:ASN:OD1	70:d2:71:LYS:HA	2.17	0.45
74:d6:30:ILE:HD13	74:d6:74:CYS:HA	1.98	0.45
1:1:295:A:OP1	37:AJ:53:TYR:HE2	2.00	0.45
1:1:629:U:H2'	1:1:630:A:H8	1.81	0.45
1:1:1019:G:N7	81:1:3545:OHX:N4	2.65	0.45
1:1:1231:A:N1	1:1:1279:C:N4	2.65	0.45
1:1:1503:A:C4	1:1:1504:A:C8	3.05	0.45
1:1:1597:C:H2'	1:1:1598:G:C8	2.48	0.45
1:1:1856:C:H2'	1:1:1857:C:H6	1.81	0.45
1:1:2191:U:H2'	1:1:2192:C:C6	2.52	0.45
1:1:2407:C:C2	1:1:2408:U:C5	3.04	0.45
1:1:2528:G:H5'	10:p:245:LYS:HZ3	1.79	0.45
1:1:2533:G:C2	1:1:2547:A:C2	3.05	0.45
1:1:2773:C:C2	1:1:2774:C:C5	3.04	0.45
1:1:3108:G:H21	11:q:163:GLN:CD	2.24	0.45
2:3:76:A:N3	21:0:50:LYS:NZ	2.64	0.45
5:k:108:GLU:HA	5:k:137:TYR:CE2	2.52	0.45
6:l:84:ARG:O	6:l:87:GLN:HG3	2.17	0.45
6:l:316:ASN:ND2	9:o:150:LYS:HG3	2.31	0.45
9:o:190:THR:O	9:o:190:THR:OG1	2.33	0.45
11:q:75:VAL:O	11:q:79:ILE:HG23	2.17	0.45
13:s:52:TYR:CZ	45:i:39:PRO:HD3	2.52	0.45
17:w:54:TYR:O	17:w:57:PHE:HB3	2.17	0.45
19:y:24:VAL:O	19:y:28:LEU:HG	2.16	0.45
26:8:45:LYS:HG3	36:AI:75:TYR:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:8:80:ASN:OD1	26:8:126:LEU:HB2	2.17	0.45
26:8:103:TYR:HB3	26:8:135:ILE:HD11	1.99	0.45
35:AH:46:ASP:OD1	35:AH:80:ARG:HD2	2.16	0.45
45:i:133:GLU:O	45:i:136:ALA:N	2.49	0.45
1:AR:271:C:OP1	81:AR:3574:OHX:N6	2.50	0.45
1:AR:604:G:O6	81:AR:3656:OHX:N5	2.50	0.45
1:AR:969:C:H5'	30:DD:15:LYS:O	2.17	0.45
1:AR:1261:G:H5''	1:AR:1262:G:OP1	2.16	0.45
1:AR:2254:U:H6	1:AR:2254:U:H5''	1.81	0.45
1:AR:2308:C:O2	81:AR:4201:OHX:N3	2.50	0.45
1:AR:2395:G:H5''	5:CE:255:TRP:CD1	2.51	0.45
1:AR:3006:A:H2'	1:AR:3007:U:O4'	2.17	0.45
1:AR:3231:U:H2'	1:AR:3232:G:C8	2.52	0.45
12:CL:66:GLU:OE1	12:CL:69:ARG:NH2	2.50	0.45
21:CU:78:TRP:CE3	21:CU:125:LYS:HG2	2.52	0.45
23:CW:55:THR:O	23:CW:65:VAL:HA	2.17	0.45
28:DB:115:LYS:O	28:DB:119:GLU:OE1	2.35	0.45
34:DH:9:VAL:HG21	34:DH:44:TYR:CE2	2.52	0.45
36:DJ:28:LEU:O	36:DJ:32:LYS:HG2	2.17	0.45
43:DQ:35:LEU:HB2	43:DQ:40:LYS:HG2	1.98	0.45
47:A:679:U:H2'	47:A:680:U:C6	2.51	0.45
47:A:968:U:H2'	47:A:969:C:O4'	2.17	0.45
47:A:1082:C:O2'	70:X:19:LYS:HE3	2.16	0.45
47:A:1200:G:H4'	47:A:1201:G:C5'	2.47	0.45
49:C:141:ALA:HB1	49:C:207:LEU:HD22	1.99	0.45
50:D:180:ALA:HB2	50:D:198:THR:OG1	2.16	0.45
59:M:43:LYS:HD2	59:M:141:LYS:HE2	1.99	0.45
65:S:21:TYR:OH	65:S:61:ILE:HD11	2.16	0.45
70:X:102:VAL:HG23	70:X:127:GLY:O	2.17	0.45
74:b:46:GLU:HB3	74:b:49:ALA:HB3	1.99	0.45
75:c:34:ASP:O	75:c:79:PHE:HA	2.16	0.45
80:h:13:LEU:HD12	80:h:13:LEU:HA	1.49	0.45
80:h:50:ASP:CB	80:h:53:LYS:HD3	2.47	0.45
47:sR:66:U:H5'	54:s6:173:PRO:HA	1.98	0.45
47:sR:177:U:HO2'	47:sR:178:U:H6	1.62	0.45
47:sR:259:U:H4'	56:s8:178:ARG:HH12	1.82	0.45
47:sR:590:C:H2'	47:sR:591:A:C8	2.52	0.45
47:sR:887:A:H2'	47:sR:888:U:C6	2.52	0.45
47:sR:1388:A:C5	47:sR:1411:A:C6	3.05	0.45
48:s0:148:ASP:HB2	48:s0:164:ASN:HD22	1.82	0.45
49:s1:157:GLN:O	49:s1:161:ILE:HD12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s1:197:ILE:HD11	49:s1:210:ILE:HG22	1.99	0.45
51:s3:8:LYS:HB2	51:s3:8:LYS:HE2	1.77	0.45
51:s3:212:LYS:HE2	51:s3:212:LYS:HB3	1.67	0.45
53:s5:120:ILE:O	53:s5:124:LEU:HG	2.17	0.45
54:s6:69:LEU:O	54:s6:69:LEU:HG	2.16	0.45
55:s7:152:VAL:O	55:s7:183:PHE:HA	2.16	0.45
57:s9:21:SER:HA	57:s9:24:LEU:HG	1.99	0.45
64:c6:28:LEU:HD11	64:c6:30:LYS:HD2	1.99	0.45
1:1:265:A:C5'	37:AJ:34:SER:HB2	2.46	0.45
1:1:307:A:H2'	1:1:308:A:H8	1.80	0.45
1:1:738:A:H2'	1:1:739:G:C8	2.52	0.45
1:1:1426:C:H4'	6:l:40:THR:HB	1.99	0.45
1:1:1779:C:C4	20:z:89:LEU:HD13	2.52	0.45
1:1:2163:C:H4'	4:j:7:ASN:O	2.17	0.45
1:1:2696:A:H2'	1:1:2697:A:C8	2.52	0.45
2:3:43:U:H4'	13:s:140:ARG:O	2.16	0.45
5:k:159:ARG:HG2	5:k:182:GLN:HA	1.97	0.45
11:q:187:ILE:HG22	11:q:188:THR:H	1.82	0.45
12:r:216:TYR:CG	12:r:217:PHE:N	2.85	0.45
20:z:4:LEU:HD22	20:z:7:GLN:HG3	1.98	0.45
20:z:8:LYS:HG3	20:z:22:VAL:CG2	2.46	0.45
24:6:87:ARG:HH22	24:6:137:VAL:CG2	2.26	0.45
28:AA:108:GLU:HA	28:AA:111:LYS:HZ1	1.82	0.45
1:AR:1073:U:H2'	1:AR:1074:U:C6	2.51	0.45
1:AR:1230:G:H4'	46:p0:33:VAL:O	2.17	0.45
1:AR:1625:A:H2'	1:AR:1626:U:C6	2.52	0.45
1:AR:1688:U:C2	1:AR:1689:U:C5	3.05	0.45
1:AR:2541:U:H1'	1:AR:2542:U:P	2.56	0.45
1:AR:2985:C:H2'	1:AR:2986:U:C6	2.52	0.45
2:AS:42:A:H2'	2:AS:43:U:H6	1.82	0.45
7:CG:218:ARG:HG3	7:CG:222:LEU:HD12	2.00	0.45
8:CH:50:LYS:HE2	8:CH:72:ASN:HB2	1.98	0.45
8:CH:131:LYS:HE2	8:CH:131:LYS:HA	1.99	0.45
10:CJ:34:PHE:CE2	10:CJ:42:PRO:HG3	2.52	0.45
14:CN:42:ARG:HG2	14:CN:46:ILE:HD11	1.99	0.45
16:CP:101:THR:O	16:CP:105:ARG:HG3	2.17	0.45
17:CQ:155:LYS:HG3	17:CQ:156:LEU:N	2.31	0.45
18:CR:52:LEU:HD23	18:CR:52:LEU:HA	1.80	0.45
19:CS:85:GLY:N	19:CS:104:LEU:HD12	2.32	0.45
33:DG:104:ASN:HA	33:DG:107:VAL:HG12	1.98	0.45
36:DJ:58:ILE:O	36:DJ:62:GLN:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:127:G:C5	54:H:195:VAL:HG23	2.52	0.45
47:A:358:U:O2'	47:A:360:A:OP1	2.35	0.45
47:A:1277:G:O3'	51:E:183:GLY:HA3	2.17	0.45
47:A:1380:U:H2'	47:A:1381:U:C6	2.51	0.45
47:A:1483:A:C6	47:A:1484:G:C6	3.05	0.45
47:A:1598:U:OP1	81:A:1973:OHX:N5	2.50	0.45
52:F:191:ARG:CD	52:F:245:LYS:HB2	2.46	0.45
62:P:68:ALA:HB2	62:P:105:LEU:HD22	1.99	0.45
64:R:29:ILE:HA	64:R:65:ILE:O	2.17	0.45
68:V:34:LEU:O	68:V:38:SER:HB3	2.17	0.45
70:X:37:PHE:CZ	70:X:103:ILE:HG21	2.51	0.45
73:a:47:TYR:O	73:a:50:ILE:HG13	2.16	0.45
80:h:61:PHE:HB3	80:h:92:TRP:CE3	2.52	0.45
47:sR:66:U:H5'	54:s6:172:ALA:O	2.17	0.45
47:sR:396:G:O6	56:s8:26:LYS:HE3	2.17	0.45
47:sR:697:C:C2	55:s7:105:THR:O	2.70	0.45
47:sR:905:A:H2'	47:sR:906:A:O4'	2.16	0.45
47:sR:1060:U:H4'	47:sR:1061:A:C5'	2.46	0.45
47:sR:1257:U:O2'	47:sR:1258:U:O2	2.32	0.45
47:sR:1420:C:H2'	47:sR:1421:A:O4'	2.17	0.45
47:sR:1542:G:H5''	67:c9:87:GLY:C	2.42	0.45
47:sR:1711:C:H2'	47:sR:1712:A:H5''	1.98	0.45
47:sR:1729:C:O2'	56:s8:2:GLY:HA2	2.16	0.45
49:s1:158:SER:HA	49:s1:161:ILE:HD13	1.99	0.45
51:s3:191:ASP:OD1	51:s3:193:ALA:N	2.50	0.45
53:s5:41:LYS:HA	53:s5:41:LYS:HD2	1.65	0.45
53:s5:69:PHE:CE2	64:c6:112:TYR:OH	2.66	0.45
55:s7:187:SER:O	55:s7:187:SER:OG	2.34	0.45
61:c3:98:VAL:CG1	61:c3:115:LEU:HB2	2.47	0.45
63:c5:52:LYS:N	63:c5:52:LYS:HD2	2.32	0.45
64:c6:49:TYR:HB3	64:c6:53:LEU:HD11	1.98	0.45
65:c7:21:TYR:OH	65:c7:62:GLN:NE2	2.49	0.45
66:c8:92:ILE:HD13	66:c8:92:ILE:HA	1.91	0.45
69:d1:64:GLU:HG3	75:d7:3:LEU:HD12	1.99	0.45
70:d2:15:ASN:HD21	70:d2:72:CYS:H	1.64	0.45
72:d4:29:HIS:CG	72:d4:67:GLY:O	2.70	0.45
1:1:625:G:H2'	1:1:626:U:C6	2.52	0.44
1:1:1624:G:O2'	1:1:1643:A:N1	2.47	0.44
1:1:2393:G:H4'	5:k:252:ILE:HD13	1.97	0.44
1:1:2853:A:O3'	12:r:64:ALA:HB2	2.17	0.44
1:1:2897:A:H2'	1:1:2899:C:C5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2997:G:C6	1:1:3396:U:C4	3.05	0.44
1:1:3242:G:N2	1:1:3245:A:H5''	2.32	0.44
1:1:3315:G:H2'	5:k:123:TYR:CD2	2.52	0.44
4:j:171:GLY:O	44:AQ:68:ALA:HB2	2.16	0.44
4:j:206:PRO:HA	4:j:212:GLY:HA3	1.99	0.44
7:m:33:ARG:O	7:m:37:VAL:HG23	2.17	0.44
7:m:152:ARG:HE	7:m:152:ARG:HB3	1.57	0.44
10:p:149:LYS:O	10:p:176:PRO:HG2	2.17	0.44
11:q:74:LEU:O	11:q:78:MET:HG3	2.17	0.44
12:r:38:LYS:HD3	12:r:41:ALA:HB2	1.98	0.44
15:u:76:ALA:HB1	15:u:80:THR:OG1	2.18	0.44
18:x:53:ASP:O	18:x:54:HIS:HB2	2.17	0.44
32:AE:19:ARG:HD3	32:AE:35:GLU:HG3	1.98	0.44
45:i:138:ALA:HB3	45:i:139:GLU:OE2	2.16	0.44
1:AR:1369:A:OP1	29:DC:21:ARG:NH1	2.51	0.44
1:AR:1413:G:N7	81:AR:3639:OHX:N5	2.65	0.44
1:AR:1468:A:N1	1:AR:1880:U:O2'	2.50	0.44
1:AR:1751:G:H5''	39:DM:26:LYS:HE2	1.98	0.44
1:AR:2263:C:H6	1:AR:2263:C:H2'	1.53	0.44
2:AS:15:C:O3'	7:CG:8:LYS:NZ	2.46	0.44
2:AS:33:U:H2'	2:AS:34:C:O4'	2.17	0.44
4:CD:45:VAL:HG23	4:CD:88:ILE:HD13	1.97	0.44
4:CD:130:SER:HA	4:CD:169:ILE:HG22	2.00	0.44
7:CG:23:ARG:HD2	7:CG:23:ARG:HA	1.76	0.44
7:CG:156:GLY:HA2	7:CG:181:PRO:HD3	1.99	0.44
13:CM:95:ASN:HB3	13:CM:103:GLY:O	2.17	0.44
17:CQ:16:VAL:HG23	17:CQ:42:ASN:O	2.16	0.44
18:CR:41:LEU:O	18:CR:45:GLN:HG3	2.17	0.44
19:CS:77:ALA:O	19:CS:99:THR:HG21	2.17	0.44
19:CS:122:ILE:HG23	19:CS:126:GLN:HB3	1.98	0.44
28:DB:15:ARG:C	28:DB:19:ALA:HB2	2.42	0.44
31:DE:39:SER:C	31:DE:40:LYS:HD3	2.42	0.44
47:A:495:C:H3'	47:A:496:G:H4'	1.99	0.44
47:A:765:G:C6	57:K:149:ARG:HD2	2.52	0.44
47:A:1274:C:H4'	47:A:1275:A:O5'	2.16	0.44
47:A:1302:U:H2'	47:A:1303:U:H6	1.81	0.44
47:A:1349:G:H2'	47:A:1350:U:C6	2.52	0.44
47:A:1366:U:H4'	67:U:7:ARG:HD2	1.99	0.44
47:A:1390:U:O4'	65:S:3:ARG:NH1	2.50	0.44
47:A:1505:A:C5	47:A:1506:G:H1'	2.52	0.44
47:A:1531:G:OP2	73:a:96:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1610:G:OP2	64:R:75:VAL:HG11	2.18	0.44
49:C:190:PRO:O	49:C:191:GLU:HG2	2.17	0.44
53:G:125:THR:HG22	53:G:127:GLN:HB2	1.99	0.44
54:H:64:LYS:HE2	54:H:82:SER:HB2	1.99	0.44
55:I:31:SER:H	55:I:34:LEU:HB2	1.81	0.44
55:I:172:VAL:HG13	55:I:173:TYR:H	1.82	0.44
56:J:58:LEU:HD12	56:J:58:LEU:H	1.82	0.44
57:K:65:LYS:HA	57:K:70:LEU:HD11	1.98	0.44
61:O:4:MET:HE1	61:O:121:ARG:HG3	1.99	0.44
64:R:55:VAL:CG2	64:R:105:LEU:HG	2.46	0.44
67:U:66:TYR:C	67:U:66:TYR:CD1	2.94	0.44
69:W:74:GLN:OE1	69:W:82:VAL:HG12	2.17	0.44
72:Z:124:ARG:O	72:Z:127:LYS:HE3	2.17	0.44
74:b:84:VAL:CG1	74:b:85:ARG:N	2.77	0.44
47:sR:259:U:O4'	56:s8:178:ARG:NH1	2.49	0.44
47:sR:725:U:H2'	47:sR:726:C:C6	2.52	0.44
47:sR:1388:A:H5''	65:c7:48:ASN:ND2	2.25	0.44
47:sR:1425:A:O2'	47:sR:1426:C:H5'	2.16	0.44
47:sR:1435:G:N7	58:c0:25:LYS:NZ	2.65	0.44
80:Rb:262:VAL:HG23	80:Rb:271:VAL:HB	1.99	0.44
80:Rb:295:SER:OG	80:Rb:296:ALA:N	2.50	0.44
48:s0:84:ARG:NH2	48:s0:88:LYS:HZ3	2.14	0.44
48:s0:201:LEU:O	48:s0:201:LEU:HG	2.17	0.44
53:s5:217:LEU:CA	53:s5:219:ARG:HH11	2.27	0.44
54:s6:123:GLY:HA2	54:s6:127:THR:HG23	2.00	0.44
54:s6:141:ILE:HD12	54:s6:141:ILE:H	1.81	0.44
54:s6:164:LYS:HD3	54:s6:164:LYS:O	2.16	0.44
55:s7:74:GLN:HG2	55:s7:74:GLN:O	2.17	0.44
56:s8:84:HIS:HA	56:s8:100:ALA:O	2.17	0.44
56:s8:138:ASN:C	56:s8:138:ASN:OD1	2.60	0.44
58:c0:54:TYR:CD2	58:c0:72:GLY:HA2	2.52	0.44
64:c6:37:THR:HG23	64:c6:38:LEU:CD2	2.47	0.44
66:c8:104:ASN:ND2	66:c8:107:SER:OG	2.49	0.44
68:d0:80:GLU:OE1	77:d9:44:ARG:NH1	2.50	0.44
73:d5:48:ASP:OD1	73:d5:48:ASP:N	2.49	0.44
1:1:92:G:O5'	43:AP:46:LYS:NZ	2.48	0.44
1:1:1048:A:H2'	12:r:22:TYR:CZ	2.53	0.44
1:1:1273:A:HO2'	1:1:1274:A:P	2.40	0.44
1:1:1701:C:H2'	1:1:1702:U:O4'	2.18	0.44
1:1:2160:G:H2'	1:1:2161:G:C8	2.53	0.44
1:1:2985:C:H2'	1:1:2986:U:C6	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3292:A:H2'	1:1:3293:U:C6	2.51	0.44
2:3:92:A:C5	2:3:93:C:H1'	2.53	0.44
4:j:36:GLU:OE1	4:j:163:ARG:NH1	2.50	0.44
7:m:76:ALA:HB3	7:m:109:THR:HG22	1.98	0.44
11:q:101:VAL:HA	11:q:113:GLU:O	2.17	0.44
11:q:189:GLU:O	11:q:190:ASP:HB3	2.17	0.44
14:t:64:LYS:HD2	29:AB:66:ALA:CB	2.47	0.44
16:v:35:VAL:O	16:v:64:VAL:HA	2.18	0.44
21:0:138:GLN:HA	21:0:141:LYS:HB2	1.99	0.44
28:AA:109:GLU:HA	28:AA:112:LYS:HG3	1.99	0.44
37:AJ:75:LYS:O	37:AJ:75:LYS:HG3	2.17	0.44
1:AR:150:A:C5	1:AR:151:A:C8	3.06	0.44
1:AR:1307:G:C4	17:CQ:60:LYS:HD3	2.52	0.44
1:AR:1447:G:H3'	18:CR:67:ILE:CD1	2.44	0.44
1:AR:1579:C:N4	26:CZ:33:ARG:HH22	2.15	0.44
1:AR:1669:C:OP1	35:DI:24:LYS:HE2	2.17	0.44
1:AR:2508:U:H2'	1:AR:2509:U:C5	2.53	0.44
1:AR:2520:A:H2'	1:AR:2521:U:C6	2.52	0.44
1:AR:2608:G:H2'	1:AR:2609:A:H8	1.83	0.44
1:AR:2881:C:H2'	1:AR:2882:U:H6	1.83	0.44
6:CF:202:ARG:HA	6:CF:202:ARG:HD3	1.85	0.44
7:CG:38:THR:O	7:CG:48:LYS:HE3	2.17	0.44
8:CH:13:GLU:OE2	33:DG:91:THR:HG23	2.17	0.44
37:DK:56:ARG:O	37:DK:60:LEU:HD22	2.17	0.44
44:DR:87:ARG:O	44:DR:91:GLU:CG	2.64	0.44
47:A:600:U:OP2	71:Y:108:GLY:HA2	2.18	0.44
47:A:771:A:C4	47:A:772:G:C8	3.05	0.44
47:A:839:U:H5''	59:M:28:SER:OG	2.17	0.44
47:A:1060:U:H2'	47:A:1061:A:O4'	2.17	0.44
47:A:1206:U:OP1	81:A:1922:OHX:N6	2.50	0.44
47:A:1217:A:H8	47:A:1217:A:H5'	1.82	0.44
47:A:1451:C:H2'	47:A:1452:U:C6	2.53	0.44
47:A:1552:U:H2'	47:A:1553:G:O4'	2.17	0.44
47:A:1754:A:O2'	81:A:2117:OHX:N3	2.50	0.44
48:B:200:ASP:OD1	48:B:200:ASP:N	2.49	0.44
52:F:194:THR:O	52:F:195:ILE:C	2.59	0.44
53:G:65:ARG:CZ	53:G:65:ARG:HB2	2.46	0.44
53:G:166:ARG:HD2	76:d:46:GLY:HA2	1.99	0.44
54:H:137:ARG:HH11	54:H:177:ARG:HD2	1.82	0.44
55:I:153:LEU:CD1	55:I:184:GLU:HB3	2.47	0.44
57:K:6:ARG:CZ	57:K:6:ARG:HB3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:K:158:PHE:HB3	57:K:162:SER:OG	2.17	0.44
59:M:111:VAL:HG23	59:M:139:VAL:HG21	1.99	0.44
60:N:51:ALA:CB	60:N:122:VAL:HG11	2.47	0.44
60:N:81:ASP:OD1	60:N:81:ASP:C	2.61	0.44
64:R:26:LYS:HD2	64:R:26:LYS:N	2.32	0.44
64:R:82:ARG:O	64:R:85:ILE:HG13	2.17	0.44
66:T:11:PHE:CD1	66:T:59:GLY:HA3	2.52	0.44
73:a:54:VAL:N	73:a:55:PRO:HD2	2.31	0.44
80:h:74:THR:CG2	80:h:79:TYR:HB2	2.47	0.44
47:sR:244:A:C2'	47:sR:245:U:H5'	2.47	0.44
47:sR:609:U:H4'	47:sR:610:G:O5'	2.16	0.44
47:sR:961:U:H2'	47:sR:962:C:C6	2.52	0.44
47:sR:1248:C:H2'	47:sR:1249:U:H6	1.81	0.44
47:sR:1330:G:H2'	47:sR:1331:A:O4'	2.17	0.44
47:sR:1620:C:O2'	47:sR:1621:U:OP1	2.29	0.44
48:s0:183:ARG:NE	48:s0:188:LEU:HD12	2.32	0.44
53:s5:35:GLN:HA	53:s5:38:THR:HG22	1.98	0.44
55:s7:51:VAL:HG22	55:s7:55:LYS:C	2.42	0.44
57:s9:13:SER:O	57:s9:43:TYR:HB3	2.17	0.44
58:c0:3:MET:HE2	58:c0:45:ALA:HB2	2.00	0.44
61:c3:5:HIS:CE1	61:c3:121:ARG:HG3	2.53	0.44
61:c3:45:LEU:HB3	61:c3:50:ILE:HG13	1.98	0.44
65:c7:104:ASN:O	65:c7:105:GLN:HG2	2.16	0.44
70:d2:14:ILE:CG2	70:d2:25:VAL:HG21	2.47	0.44
1:1:374:A:N3	1:1:376:G:H5''	2.32	0.44
1:1:1350:A:H2'	1:1:1351:U:C6	2.52	0.44
1:1:1654:A:N3	35:AH:59:PRO:HB3	2.32	0.44
1:1:1740:U:C1'	1:1:1741:A:H2	2.30	0.44
1:1:1793:C:OP1	4:j:177:LYS:NZ	2.50	0.44
1:1:1862:U:OP2	81:1:4135:OHX:N3	2.50	0.44
1:1:2162:U:OP1	4:j:234:LYS:NZ	2.43	0.44
1:1:2816:G:C8	1:1:2869:U:H3'	2.52	0.44
1:1:2947:G:C2	5:k:250:ALA:HB1	2.52	0.44
2:3:45:A:H2'	2:3:46:A:H8	1.83	0.44
14:t:106:GLN:HB3	37:AJ:18:THR:OG1	2.17	0.44
17:w:108:ILE:HD12	17:w:160:ARG:CZ	2.47	0.44
21:0:24:LEU:HD12	21:0:24:LEU:HA	1.80	0.44
1:AR:320:G:O2'	1:AR:321:C:H5'	2.17	0.44
1:AR:671:U:O2'	19:CS:20:LYS:HD3	2.17	0.44
1:AR:694:C:H4'	6:CF:232:SER:O	2.18	0.44
1:AR:1679:A:OP2	23:CW:77:LYS:NZ	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2269:U:O2'	1:AR:2270:A:OP1	2.30	0.44
1:AR:3257:C:OP1	81:AR:4197:OHX:N4	2.49	0.44
1:AR:3277:U:O2'	1:AR:3278:C:H5'	2.17	0.44
3:AT:4:C:H2'	3:AT:5:U:C6	2.52	0.44
8:CH:42:LEU:HD23	8:CH:84:VAL:HG12	2.00	0.44
9:CI:86:VAL:HG22	9:CI:136:TYR:HB3	1.98	0.44
14:CN:64:LYS:HB2	29:DC:69:TRP:HB3	1.99	0.44
15:CO:15:VAL:O	21:CU:149:LYS:HA	2.17	0.44
16:CP:48:ALA:C	16:CP:53:TYR:HB3	2.42	0.44
23:CW:17:VAL:HB	23:CW:63:VAL:CG1	2.47	0.44
24:CX:18:PRO:HA	24:CX:51:ALA:HA	1.98	0.44
25:CY:25:ASP:OD1	25:CY:25:ASP:N	2.49	0.44
29:DC:103:ASP:HB3	29:DC:106:ALA:HB3	2.00	0.44
34:DH:59:VAL:C	34:DH:60:ARG:HD3	2.42	0.44
47:A:227:U:H3	47:A:834:G:H1	1.65	0.44
47:A:855:A:O2'	47:A:856:A:H3'	2.17	0.44
47:A:1292:G:N2	48:B:111:ILE:HD11	2.26	0.44
47:A:1457:C:H1'	66:T:137:HIS:CD2	2.52	0.44
47:A:1640:C:H2'	47:A:1641:C:C6	2.52	0.44
50:D:152:HIS:HB2	50:D:194:GLU:HB2	1.98	0.44
50:D:177:GLY:H	50:D:195:ASP:CG	2.25	0.44
54:H:179:VAL:HG12	54:H:184:LEU:HD11	1.98	0.44
62:P:99:GLN:HA	62:P:102:LEU:CD2	2.47	0.44
66:T:31:ALA:O	66:T:34:THR:HG22	2.18	0.44
66:T:52:VAL:HG22	66:T:65:GLU:CG	2.48	0.44
67:U:7:ARG:H	67:U:7:ARG:HG3	1.62	0.44
47:sR:1203:A:C2	47:sR:1556:A:C4	3.05	0.44
47:sR:1258:U:H5	47:sR:1259:U:C2	2.35	0.44
47:sR:1389:C:H4'	65:c7:49:LYS:HA	1.99	0.44
80:Rb:34:LEU:CD2	80:Rb:80:ALA:HB1	2.46	0.44
48:s0:74:VAL:HA	48:s0:96:THR:O	2.17	0.44
50:s2:59:HIS:NE2	50:s2:238:SER:HA	2.33	0.44
55:s7:7:LYS:HE2	55:s7:7:LYS:H	1.83	0.44
55:s7:99:LEU:O	55:s7:112:ARG:NH1	2.51	0.44
58:c0:50:THR:HB	58:c0:55:VAL:HG13	1.99	0.44
61:c3:46:THR:HG23	61:c3:49:GLN:OE1	2.18	0.44
68:d0:67:THR:HG23	68:d0:68:ARG:O	2.17	0.44
70:d2:41:MET:HG2	70:d2:129:VAL:HG21	1.99	0.44
1:1:158:G:H2'	1:1:159:A:H8	1.81	0.44
1:1:407:A:C2	3:4:17:A:H1'	2.52	0.44
1:1:3288:G:C4	1:1:3289:G:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:p:116:VAL:HG22	10:p:116:VAL:O	2.17	0.44
13:s:78:GLU:OE1	13:s:82:ARG:NH2	2.50	0.44
13:s:172:LEU:HG	13:s:173:ASP:N	2.33	0.44
16:v:51:LEU:HD22	16:v:117:ASN:ND2	2.32	0.44
16:v:99:ARG:HD3	16:v:167:THR:HB	1.99	0.44
20:z:104:ARG:HH11	20:z:104:ARG:HG2	1.81	0.44
1:AR:426:G:H2'	1:AR:427:C:H6	1.80	0.44
1:AR:1312:C:H2'	1:AR:1313:G:O4'	2.17	0.44
1:AR:1410:U:O2'	33:DG:95:GLU:OE2	2.31	0.44
1:AR:1675:G:H2'	1:AR:1676:A:C8	2.52	0.44
1:AR:1691:U:H2'	1:AR:1692:U:H6	1.81	0.44
1:AR:2767:U:O4	81:AR:3534:OHX:N5	2.51	0.44
1:AR:2785:A:H4'	43:DQ:41:ARG:HH21	1.82	0.44
1:AR:3106:A:H2'	1:AR:3107:U:O4'	2.18	0.44
2:AS:24:A:H2'	2:AS:25:G:C8	2.52	0.44
6:CF:157:GLU:O	6:CF:213:ASN:HB2	2.17	0.44
7:CG:260:PHE:HB2	7:CG:265:TYR:CE1	2.51	0.44
10:CJ:29:SER:O	10:CJ:31:PRO:HD3	2.18	0.44
11:CK:128:VAL:HA	11:CK:157:ASN:HD21	1.82	0.44
13:CM:32:ARG:HD2	13:CM:120:ILE:O	2.17	0.44
18:CR:71:ALA:O	18:CR:74:LYS:HG3	2.16	0.44
28:DB:103:GLN:O	28:DB:106:GLN:HG2	2.17	0.44
34:DH:45:LEU:HA	34:DH:71:VAL:HG12	2.00	0.44
37:DK:15:LYS:HA	37:DK:15:LYS:HD2	1.71	0.44
43:DQ:10:THR:HA	43:DQ:20:HIS:CE1	2.52	0.44
43:DQ:68:VAL:HG13	43:DQ:85:LEU:HB2	2.00	0.44
47:A:495:C:H3'	47:A:496:G:O4'	2.18	0.44
47:A:548:G:H2'	47:A:549:G:O4'	2.18	0.44
47:A:562:G:H2'	47:A:563:U:C6	2.52	0.44
47:A:1061:A:H3'	47:A:1062:A:C2	2.53	0.44
48:B:26:ALA:O	48:B:45:VAL:HG23	2.17	0.44
49:C:182:ALA:O	49:C:185:THR:OG1	2.30	0.44
50:D:230:TRP:CG	70:X:68:ARG:HD3	2.52	0.44
53:G:222:LYS:HA	53:G:222:LYS:CE	2.42	0.44
54:H:3:LEU:O	54:H:15:THR:HA	2.18	0.44
57:K:37:LYS:HA	78:f:33:ARG:HA	1.99	0.44
57:K:110:GLN:HA	57:K:129:ILE:CD1	2.47	0.44
63:Q:98:ASN:ND2	63:Q:121:ILE:O	2.50	0.44
68:V:20:ILE:CD1	68:V:21:LYS:N	2.80	0.44
74:b:30:ILE:HD11	74:b:34:LYS:HD3	1.99	0.44
77:e:24:CYS:O	77:e:25:SER:OG	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:180:ALA:O	80:h:188:ILE:HD12	2.17	0.44
47:sR:325:G:OP1	59:c1:132:SER:OG	2.34	0.44
47:sR:411:C:H2'	47:sR:412:A:O4'	2.18	0.44
47:sR:812:A:H62	47:sR:858:G:H2'	1.82	0.44
47:sR:901:G:N2	62:c4:54:GLU:OE1	2.51	0.44
81:sR:2007:OHX:N2	71:d3:64:PRO:HB2	2.33	0.44
49:s1:165:ARG:O	49:s1:169:SER:OG	2.36	0.44
50:s2:98:PHE:N	50:s2:98:PHE:CD1	2.86	0.44
50:s2:115:ILE:HD12	50:s2:115:ILE:O	2.17	0.44
51:s3:53:THR:HA	51:s3:91:VAL:HG22	1.99	0.44
51:s3:119:ALA:O	51:s3:123:VAL:HG12	2.18	0.44
51:s3:158:ILE:HG12	51:s3:189:MET:HE1	2.00	0.44
52:s4:160:VAL:HG12	52:s4:172:PHE:HB2	1.98	0.44
53:s5:73:THR:HG22	53:s5:74:ALA:N	2.33	0.44
55:s7:164:TYR:CE2	55:s7:165:LYS:HG3	2.52	0.44
57:s9:77:ILE:O	57:s9:81:VAL:HG13	2.18	0.44
66:c8:2:SER:HA	73:d5:78:ILE:HD11	2.00	0.44
68:d0:51:VAL:HG12	68:d0:52:LYS:O	2.17	0.44
73:d5:58:ARG:HG3	73:d5:103:ARG:HD2	1.99	0.44
1:l:96:G:H5'	14:t:15:ARG:CZ	2.47	0.44
1:l:1108:U:H2'	1:l:1109:U:H6	1.81	0.44
1:l:2526:C:H2'	1:l:2527:G:C8	2.51	0.44
1:l:2656:A:C4	1:l:2658:G:N7	2.86	0.44
1:l:2988:C:OP1	17:w:68:ARG:HD2	2.17	0.44
1:l:3279:A:C6	1:l:3280:U:C4	3.05	0.44
7:m:44:TYR:H	7:m:44:TYR:HD1	1.61	0.44
20:z:21:LYS:HE3	20:z:55:VAL:HA	1.99	0.44
20:z:105:LEU:HD13	20:z:135:LYS:HG3	1.99	0.44
21:0:148:LEU:HD12	21:0:149:LYS:N	2.33	0.44
27:9:81:GLN:NE2	27:9:96:PRO:HB2	2.32	0.44
28:AA:18:TYR:HE1	28:AA:47:GLU:OE1	2.00	0.44
28:AA:36:HIS:NE2	28:AA:74:VAL:HG21	2.32	0.44
42:AO:8:LYS:O	42:AO:12:ARG:HG3	2.18	0.44
1:AR:309:U:OP1	37:DK:84:LYS:NZ	2.45	0.44
1:AR:595:G:N1	1:AR:609:G:H5''	2.32	0.44
1:AR:645:A:O2'	1:AR:647:A:OP2	2.27	0.44
1:AR:1386:A:H5''	6:CF:141:ARG:HH22	1.82	0.44
1:AR:2291:A:O2'	47:sR:1655:A:N1	2.50	0.44
1:AR:2423:U:H2'	1:AR:2424:A:C8	2.52	0.44
1:AR:3131:U:H2'	1:AR:3132:C:H6	1.81	0.44
1:AR:3299:A:C5	1:AR:3300:U:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:324:LEU:O	6:CF:324:LEU:HD12	2.17	0.44
10:CJ:48:ARG:NH1	10:CJ:49:TYR:HE1	2.16	0.44
14:CN:57:VAL:HG12	14:CN:112:ASN:OD1	2.17	0.44
21:CU:27:MET:HG2	22:CV:151:LEU:O	2.18	0.44
28:DB:52:LYS:O	28:DB:65:ARG:NH1	2.50	0.44
37:DK:15:LYS:NZ	37:DK:16:LYS:O	2.51	0.44
40:DN:42:ARG:HG2	40:DN:43:ASN:N	2.33	0.44
44:DR:56:THR:HG23	44:DR:63:THR:OG1	2.17	0.44
47:A:67:A:N6	47:A:83:G:O2'	2.51	0.44
47:A:289:U:H2'	47:A:290:G:O4'	2.17	0.44
47:A:355:G:OP1	81:A:2137:OHX:N4	2.51	0.44
47:A:566:C:O3'	78:f:10:ARG:NH1	2.50	0.44
47:A:1405:G:H2'	47:A:1406:A:H8	1.82	0.44
49:C:108:ASP:OD1	49:C:109:LYS:N	2.49	0.44
53:G:169:ASN:HD22	53:G:169:ASN:N	2.15	0.44
54:H:203:GLU:O	54:H:206:ALA:N	2.51	0.44
63:Q:97:TYR:CE1	63:Q:99:GLY:C	2.96	0.44
66:T:48:LYS:HG3	66:T:48:LYS:O	2.18	0.44
67:U:117:SER:OG	67:U:118:PRO:O	2.29	0.44
73:a:48:ASP:OD1	73:a:48:ASP:N	2.49	0.44
80:h:3:SER:HB2	80:h:269:TYR:CE2	2.51	0.44
47:sR:579:A:N1	51:s3:144:ALA:HA	2.33	0.44
47:sR:980:G:H4'	47:sR:1776:A:H4'	1.98	0.44
47:sR:1213:G:H1	47:sR:1450:U:H3	1.65	0.44
47:sR:1333:C:H2'	47:sR:1334:U:H6	1.83	0.44
47:sR:1402:G:H2'	47:sR:1403:C:C6	2.53	0.44
49:s1:91:VAL:HA	49:s1:96:LEU:HA	2.00	0.44
52:s4:207:LEU:HD12	52:s4:221:ARG:HA	1.98	0.44
55:s7:135:ILE:H	55:s7:135:ILE:HD12	1.81	0.44
65:c7:24:LEU:HB2	65:c7:58:MET:HE2	1.99	0.44
68:d0:68:ARG:N	77:d9:40:ARG:HH12	2.15	0.44
70:d2:6:VAL:CG2	70:d2:29:PRO:HD2	2.47	0.44
70:d2:15:ASN:O	70:d2:19:LYS:HG3	2.17	0.44
1:1:563:U:H2'	1:1:564:G:C8	2.53	0.44
1:1:844:G:O6	81:1:3446:OHX:N5	2.51	0.44
1:1:906:A:OP1	81:1:3502:OHX:N3	2.51	0.44
1:1:1160:C:N3	33:AF:45:ARG:NH1	2.66	0.44
1:1:1268:G:H3'	1:1:1269:U:H5''	2.00	0.44
1:1:1386:A:H5''	6:l:141:ARG:NH2	2.33	0.44
1:1:1500:G:H2'	1:1:1501:U:O4'	2.17	0.44
1:1:1556:C:H5''	1:1:2169:G:N2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1708:C:H2'	1:1:1709:C:H6	1.82	0.44
1:1:1714:A:C2	1:1:1731:A:C4	3.05	0.44
1:1:2093:A:H3'	1:1:2093:A:N3	2.32	0.44
1:1:3049:A:C2	5:k:75:ALA:HB2	2.53	0.44
1:1:3165:A:H2'	1:1:3166:C:H6	1.81	0.44
2:3:57:G:C8	2:3:58:C:C5	3.06	0.44
3:4:2:A:C4	3:4:3:A:C8	3.06	0.44
4:j:80:GLU:CD	44:AQ:73:THR:HG22	2.43	0.44
5:k:107:ALA:HA	5:k:199:PHE:CD2	2.53	0.44
5:k:308:MET:HE2	5:k:308:MET:HB3	1.83	0.44
10:p:81:THR:OG1	10:p:181:LYS:HG3	2.16	0.44
13:s:37:LEU:HA	13:s:37:LEU:HD22	1.67	0.44
13:s:82:ARG:HD3	13:s:112:LEU:O	2.17	0.44
14:t:49:ARG:HG2	36:AI:116:TYR:CD1	2.52	0.44
16:v:37:HIS:NE2	16:v:63:ARG:HD2	2.33	0.44
19:y:151:ARG:O	19:y:162:ALA:HB3	2.18	0.44
31:AD:57:GLU:OE1	31:AD:69:TYR:OH	2.34	0.44
45:i:93:ARG:HG3	47:A:1637:C:C2	2.52	0.44
1:AR:75:G:H5''	14:CN:58:VAL:CG2	2.47	0.44
1:AR:563:U:H2'	1:AR:564:G:H8	1.82	0.44
1:AR:565:U:H2'	1:AR:566:G:C8	2.53	0.44
1:AR:972:A:OP1	19:CS:12:ARG:NH2	2.50	0.44
1:AR:1215:U:H2'	1:AR:1216:C:C6	2.52	0.44
1:AR:1716:U:O2'	1:AR:1717:U:O5'	2.33	0.44
1:AR:2150:G:N2	1:AR:2313:A:H2	2.16	0.44
1:AR:2353:G:H5''	18:CR:86:LYS:HB2	2.00	0.44
1:AR:3063:C:H2'	1:AR:3064:U:H6	1.82	0.44
1:AR:3298:C:C2	1:AR:3299:A:C8	3.06	0.44
3:AT:56:G:H2'	3:AT:57:C:H6	1.83	0.44
4:CD:65:ASP:CB	4:CD:70:ARG:HG2	2.47	0.44
7:CG:80:SER:O	7:CG:83:LEU:HG	2.18	0.44
8:CH:52:VAL:CG1	8:CH:65:ILE:HB	2.48	0.44
17:CQ:116:LYS:HG3	17:CQ:117:ARG:N	2.33	0.44
20:CT:150:GLN:HA	20:CT:153:LYS:CB	2.48	0.44
23:CW:108:TYR:N	23:CW:108:TYR:CD1	2.85	0.44
37:DK:68:ARG:O	37:DK:72:VAL:HG13	2.18	0.44
47:A:555:A:C6	57:K:19:TYR:CZ	3.06	0.44
47:A:1213:G:N7	81:A:2106:OHX:N5	2.65	0.44
47:A:1248:C:OP1	79:g:96:LYS:NZ	2.51	0.44
47:A:1330:G:N1	51:E:204:ASP:OD1	2.47	0.44
47:A:1610:G:H4'	53:G:98:MET:CE	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:C:38:PHE:HA	49:C:74:GLN:NE2	2.31	0.44
49:C:40:ASN:HB2	49:C:73:LEU:O	2.17	0.44
49:C:61:LEU:HA	49:C:64:ARG:CZ	2.46	0.44
51:E:104:SER:O	51:E:108:LYS:HG2	2.18	0.44
52:F:125:LYS:HE3	52:F:225:VAL:O	2.18	0.44
52:F:222:LEU:O	52:F:225:VAL:HG12	2.17	0.44
55:I:51:VAL:HG21	55:I:167:GLU:O	2.17	0.44
55:I:60:ILE:HD13	55:I:92:PHE:CE1	2.52	0.44
56:J:48:THR:HG21	56:J:54:LYS:HE2	1.98	0.44
57:K:47:PHE:CE2	57:K:51:LYS:HE2	2.53	0.44
57:K:108:ARG:HE	57:K:145:SER:HA	1.82	0.44
57:K:136:VAL:HG23	57:K:137:GLY:H	1.81	0.44
57:K:149:ARG:H	57:K:149:ARG:CD	2.30	0.44
58:L:80:LEU:HD12	58:L:82:LEU:HD21	1.99	0.44
61:O:60:VAL:HG13	61:O:66:ILE:HD13	1.99	0.44
63:Q:128:HIS:O	63:Q:130:ARG:NH1	2.51	0.44
64:R:32:ASN:HA	64:R:68:ARG:HH11	1.83	0.44
47:sR:725:U:H2'	47:sR:726:C:H6	1.82	0.44
47:sR:780:A:H5''	47:sR:781:U:H5'	2.00	0.44
47:sR:939:A:OP1	61:c3:114:ARG:NH2	2.50	0.44
80:Rb:133:VAL:CG2	80:Rb:142:ALA:H	2.29	0.44
80:Rb:203:THR:HB	80:Rb:243:LEU:HD13	1.99	0.44
49:s1:66:VAL:HA	62:c4:34:SER:HB2	1.99	0.44
55:s7:96:ARG:NH1	55:s7:124:LYS:HE2	2.32	0.44
56:s8:138:ASN:HB2	56:s8:141:ARG:NH2	2.32	0.44
57:s9:123:HIS:CD2	78:e0:37:ARG:HD2	2.52	0.44
63:c5:29:SER:HB3	63:c5:32:ASP:OD2	2.17	0.44
64:c6:47:LYS:HD3	64:c6:50:GLU:CD	2.43	0.44
68:d0:55:PRO:CA	68:d0:91:ILE:HG22	2.45	0.44
1:1:112:U:O2'	1:1:113:C:H5''	2.18	0.44
1:1:274:G:H2'	1:1:275:U:O4'	2.18	0.44
1:1:355:A:H2'	1:1:356:C:O4'	2.17	0.44
1:1:690:A:H4'	1:1:691:A:OP1	2.18	0.44
1:1:2303:A:OP2	42:AO:23:ARG:NH2	2.51	0.44
1:1:2840:C:OP1	81:1:3600:OHX:N6	2.50	0.44
1:1:3166:C:H2'	1:1:3167:A:O4'	2.17	0.44
1:1:3375:A:O2'	1:1:3378:C:H5'	2.17	0.44
5:k:106:TRP:HB2	5:k:133:TYR:CE2	2.53	0.44
7:m:55:PHE:CZ	7:m:158:ARG:HG3	2.52	0.44
9:o:110:ARG:HG2	9:o:111:ILE:N	2.32	0.44
12:r:191:LYS:HZ3	12:r:212:GLU:HG3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:16:SER:O	16:v:20:ARG:HG3	2.18	0.44
17:w:158:ALA:O	17:w:162:VAL:HG13	2.18	0.44
18:x:60:PHE:CE1	18:x:82:ARG:HB2	2.53	0.44
22:2:42:ILE:HD13	22:2:91:LEU:HD11	1.98	0.44
23:5:19:VAL:HG12	23:5:28:PHE:HE2	1.82	0.44
30:AC:14:ARG:NH2	30:AC:18:ARG:HD2	2.32	0.44
36:AI:94:LYS:HD2	36:AI:94:LYS:HA	1.61	0.44
45:i:72:ARG:HD2	45:i:72:ARG:HA	1.68	0.44
1:AR:317:A:OP2	37:DK:30:LYS:NZ	2.51	0.44
1:AR:553:U:H2'	1:AR:554:A:O4'	2.17	0.44
1:AR:830:A:O2'	1:AR:1866:C:H2'	2.18	0.44
1:AR:917:A:OP2	81:AR:4196:OHX:N1	2.51	0.44
1:AR:1070:U:H2'	1:AR:1071:U:O4'	2.17	0.44
1:AR:1103:A:OP2	1:AR:1103:A:H4'	2.18	0.44
1:AR:1171:G:N7	81:AR:3502:OHX:N3	2.66	0.44
1:AR:1213:G:H4'	21:CU:90:MET:CG	2.43	0.44
1:AR:2407:C:H1'	1:AR:2818:U:O2	2.18	0.44
1:AR:3000:A:H2'	1:AR:3001:C:C6	2.53	0.44
2:AS:7:G:OP1	7:CG:33:ARG:HD2	2.18	0.44
3:AT:2:A:H2'	3:AT:3:A:C8	2.52	0.44
6:CF:138:ARG:HE	6:CF:240:PRO:HD2	1.82	0.44
6:CF:234:ASN:OD1	6:CF:236:LEU:N	2.40	0.44
10:CJ:78:PHE:O	10:CJ:79:GLN:CG	2.66	0.44
12:CL:208:ASN:HA	12:CL:211:ARG:CG	2.47	0.44
13:CM:30:LEU:HD22	13:CM:64:LYS:O	2.18	0.44
20:CT:21:LYS:HD3	20:CT:53:LYS:O	2.18	0.44
20:CT:41:ILE:HD13	20:CT:41:ILE:HA	1.86	0.44
22:CV:106:LEU:HA	22:CV:109:VAL:HG12	1.98	0.44
28:DB:26:VAL:HG12	28:DB:89:VAL:CG2	2.48	0.44
36:DJ:68:GLN:HE21	36:DJ:71:LYS:CE	2.31	0.44
46:p0:33:VAL:HG23	46:p0:37:GLN:CD	2.43	0.44
46:p0:67:LEU:HD12	46:p0:67:LEU:N	2.33	0.44
45:sM:68:ARG:HD3	45:sM:69:ARG:H	1.82	0.44
47:A:66:U:C5'	54:H:173:PRO:HA	2.48	0.44
47:A:497:G:O2'	47:A:498:G:C8	2.68	0.44
47:A:1402:G:H4'	65:S:4:VAL:HG12	2.00	0.44
47:A:1414:U:H4'	47:A:1415:U:OP2	2.18	0.44
47:A:1445:G:C6	79:g:91:ILE:HB	2.53	0.44
47:A:1761:U:O2'	47:A:1762:A:OP2	2.31	0.44
49:C:88:VAL:CG1	49:C:96:LEU:HD21	2.48	0.44
53:G:120:ILE:C	53:G:123:VAL:H	2.22	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:H:55:GLY:O	54:H:63:MET:HG2	2.17	0.44
56:J:138:ASN:CA	56:J:141:ARG:HE	2.28	0.44
58:L:88:PRO:C	58:L:90:THR:H	2.26	0.44
64:R:48:VAL:HG21	64:R:81:ILE:HG13	1.99	0.44
66:T:91:ASP:CG	66:T:92:ILE:H	2.25	0.44
68:V:37:VAL:HG21	68:V:109:GLU:HB2	1.99	0.44
72:Z:124:ARG:O	72:Z:127:LYS:HG3	2.18	0.44
74:b:53:LEU:HD23	74:b:54:SER:H	1.82	0.44
74:b:96:ALA:C	74:b:98:PRO:HD2	2.43	0.44
76:d:27:GLN:O	76:d:28:VAL:HG23	2.18	0.44
47:sR:142:G:P	54:s6:139:ASN:HD21	2.41	0.44
47:sR:542:A:H1'	47:sR:543:C:P	2.58	0.44
47:sR:1230:A:N7	47:sR:1231:U:H1'	2.32	0.44
47:sR:1422:A:H2'	47:sR:1423:U:C6	2.52	0.44
47:sR:1429:G:O2'	68:d0:72:ASN:ND2	2.51	0.44
47:sR:1641:C:H2'	47:sR:1642:G:C8	2.53	0.44
80:Rb:37:SER:OG	80:Rb:38:ARG:N	2.51	0.44
80:Rb:69:GLN:HE21	80:Rb:85:TRP:HE1	1.64	0.44
48:s0:5:ALA:HA	48:s0:8:ASP:OD1	2.17	0.44
49:s1:197:ILE:HD11	49:s1:210:ILE:CG2	2.48	0.44
50:s2:99:LYS:HB2	50:s2:117:THR:HB	2.00	0.44
53:s5:138:THR:OG1	53:s5:139:ASN:N	2.50	0.44
54:s6:68:LEU:CB	54:s6:69:LEU:HB3	2.47	0.44
57:s9:73:GLY:C	57:s9:77:ILE:HD12	2.43	0.44
61:c3:79:GLY:C	61:c3:80:LEU:HD23	2.42	0.44
66:c8:45:LEU:O	66:c8:49:LYS:HG2	2.17	0.44
66:c8:52:VAL:HG13	66:c8:61:LEU:CD1	2.48	0.44
70:d2:36:LYS:HG2	70:d2:110:ILE:HB	1.99	0.44
78:e0:13:LYS:O	78:e0:17:GLN:HG2	2.18	0.44
1:1:199:A:C4	1:1:201:A:C8	3.05	0.44
1:1:755:A:C5	1:1:756:U:C5	3.05	0.44
1:1:817:A:H2'	1:1:920:A:C2	2.52	0.44
1:1:1233:G:H8	1:1:1233:G:OP2	2.01	0.44
1:1:1615:C:H2'	1:1:1616:U:H6	1.79	0.44
1:1:1754:G:OP1	81:1:3608[B]:OHX:N5	2.51	0.44
1:1:2107:A:H2	1:1:3344:A:C8	2.35	0.44
1:1:3115:C:OP1	11:q:62:ARG:NH2	2.50	0.44
1:1:3374:U:O4	81:1:3518:OHX:N3	2.51	0.44
3:4:69:U:H2'	3:4:70:G:O4'	2.18	0.44
5:k:25:ILE:HG23	5:k:272:TYR:OH	2.17	0.44
5:k:67:PHE:CE1	24:6:88:ARG:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:9:HIS:HE1	6:l:147:GLU:OE2	2.01	0.44
9:o:233:GLU:OE2	21:0:35:VAL:HB	2.18	0.44
25:7:58:HIS:O	25:7:58:HIS:CG	2.70	0.44
26:8:26:VAL:O	26:8:26:VAL:HG13	2.18	0.44
26:8:58:ASP:OD2	36:AI:25:LYS:NZ	2.48	0.44
28:AA:51:LEU:HB2	28:AA:65:ARG:HB3	1.98	0.44
28:AA:57:HIS:HB3	28:AA:62:VAL:CG1	2.47	0.44
35:AH:5:VAL:CG2	35:AH:32:ALA:HB2	2.48	0.44
39:AL:69:LEU:HD22	39:AL:75:VAL:HG21	2.00	0.44
1:AR:158:G:H2'	1:AR:159:A:H8	1.82	0.44
1:AR:294:U:H4'	37:DK:77:LEU:HD23	2.00	0.44
1:AR:649:A:H2'	1:AR:650:C:C6	2.52	0.44
1:AR:805:G:H1'	6:CF:73:ARG:NH1	2.33	0.44
1:AR:1100:U:OP2	9:CI:196:LYS:HE3	2.18	0.44
1:AR:1513:G:OP1	20:CT:5:ARG:NH2	2.51	0.44
1:AR:1556:C:H5''	1:AR:2169:G:H22	1.83	0.44
1:AR:2273:G:O6	81:AR:3478[B]:OHX:N2	2.51	0.44
1:AR:2881:C:H2'	1:AR:2882:U:C6	2.53	0.44
1:AR:3107:U:H2'	1:AR:3108:G:C8	2.53	0.44
1:AR:3209:A:P	21:CU:161:LYS:NZ	2.90	0.44
1:AR:3335:A:H2'	1:AR:3336:A:C8	2.53	0.44
1:AR:3383:G:H2'	1:AR:3384:U:C6	2.53	0.44
4:CD:50:HIS:HB2	44:DR:51:ALA:HB1	2.00	0.44
6:CF:23:PRO:HB3	6:CF:259:ASP:OD1	2.17	0.44
9:CI:80:GLN:HB2	22:CV:135:PRO:HB2	1.99	0.44
10:CJ:72:PRO:HG2	16:CP:18:VAL:HA	2.00	0.44
11:CK:67:ALA:HA	11:CK:70:THR:HG23	1.98	0.44
11:CK:105:GLU:HG2	11:CK:105:GLU:O	2.17	0.44
14:CN:126:PHE:N	14:CN:126:PHE:CD1	2.86	0.44
16:CP:163:GLY:HA2	16:CP:168:GLY:HA3	1.98	0.44
30:DD:18:ARG:O	81:DD:101:OHX:N4	2.50	0.44
47:A:182:A:H2'	47:A:183:U:H6	1.83	0.44
47:A:1245:G:O6	47:A:1250:U:O4	2.35	0.44
47:A:1504:G:H2'	47:A:1505:A:C8	2.53	0.44
47:A:1557:U:OP2	47:A:1559:A:O2'	2.29	0.44
49:C:144:ARG:HA	49:C:208:GLN:NE2	2.33	0.44
53:G:72:HIS:HD2	53:G:107:LYS:HG2	1.83	0.44
53:G:120:ILE:O	53:G:121:ILE:C	2.60	0.44
54:H:9:VAL:HG23	54:H:10:ASN:OD1	2.17	0.44
54:H:32:ILE:HD11	54:H:65:GLN:CA	2.44	0.44
55:I:46:ILE:HD13	55:I:60:ILE:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:J:48:THR:HG21	56:J:54:LYS:HB2	1.98	0.44
56:J:105:ASP:OD1	56:J:107:THR:HG23	2.18	0.44
59:M:53:TYR:CD1	59:M:113:PRO:HG2	2.53	0.44
64:R:101:SER:O	64:R:105:LEU:HD13	2.17	0.44
70:X:108:ALA:HB3	70:X:121:VAL:HG21	1.99	0.44
74:b:24:VAL:HG23	74:b:72:HIS:O	2.18	0.44
80:h:241:PHE:CE2	80:h:288:HIS:CE1	3.06	0.44
47:sR:30:G:H5'	71:d3:131:SER:HB2	2.00	0.44
47:sR:811:A:C5	55:s7:110:GLN:HG3	2.52	0.44
47:sR:880:C:OP2	81:sR:1965:OHX:N4	2.51	0.44
47:sR:1479:A:OP1	67:c9:57:ARG:HD3	2.18	0.44
47:sR:1559:A:C6	66:c8:134:ARG:HD3	2.53	0.44
47:sR:1572:G:H8	53:s5:185:ARG:HH21	1.65	0.44
80:Rb:64:HIS:ND1	80:Rb:84:SER:HB3	2.33	0.44
80:Rb:65:SER:HB2	80:Rb:86:ASP:HB3	1.99	0.44
48:s0:63:ILE:HD11	48:s0:158:VAL:HG21	2.00	0.44
49:s1:37:THR:HG21	49:s1:185:THR:CG2	2.47	0.44
49:s1:125:VAL:HG12	49:s1:126:THR:N	2.31	0.44
51:s3:115:ILE:H	51:s3:115:ILE:HD12	1.83	0.44
58:c0:56:LYS:HB3	58:c0:67:THR:CG2	2.47	0.44
61:c3:93:LYS:O	61:c3:96:VAL:HG22	2.18	0.44
62:c4:49:LYS:O	62:c4:49:LYS:HG3	2.18	0.44
62:c4:128:LYS:CD	74:d6:27:SER:HB3	2.41	0.44
65:c7:78:ARG:HA	65:c7:81:LYS:CD	2.47	0.44
69:d1:62:ARG:HA	69:d1:62:ARG:NE	2.32	0.44
71:d3:126:LYS:HB3	71:d3:131:SER:H	1.83	0.44
72:d4:43:LYS:O	72:d4:47:VAL:HG23	2.17	0.44
74:d6:42:ARG:O	74:d6:66:LYS:HB2	2.18	0.44
75:d7:31:TYR:CE1	75:d7:33:LEU:HD21	2.53	0.44
1:1:26:A:C4	1:1:27:C:C6	3.06	0.44
1:1:178:U:H2'	1:1:179:C:C6	2.53	0.44
1:1:181:U:O3'	38:AK:75:LYS:NZ	2.51	0.44
1:1:2383:C:H5'	17:w:71:PHE:CE2	2.53	0.44
1:1:2707:C:H2'	1:1:2708:C:H6	1.83	0.44
1:1:2724:U:H4'	22:2:54:HIS:CD2	2.53	0.44
1:1:2882:U:H2'	1:1:2883:U:H6	1.83	0.44
3:4:84:C:O2	27:9:113:LYS:HG3	2.18	0.44
4:j:80:GLU:OE2	44:AQ:73:THR:HG22	2.18	0.44
6:l:41:SER:HB3	6:l:111:VAL:HG11	2.00	0.44
6:l:355:PHE:CZ	9:o:70:LYS:HD3	2.53	0.44
11:q:91:ARG:NH1	11:q:141:LYS:O	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:r:178:ARG:HB2	12:r:179:PRO:HD3	2.00	0.44
15:u:50:LYS:HE2	15:u:85:TRP:HD1	1.82	0.44
16:v:19:LEU:HD23	16:v:19:LEU:HA	1.78	0.44
16:v:27:VAL:HB	16:v:122:ASN:ND2	2.33	0.44
17:w:98:ALA:HA	17:w:101:ARG:HH11	1.83	0.44
20:z:168:ALA:HA	20:z:171:ASP:OD1	2.18	0.44
43:AP:38:GLN:HA	43:AP:38:GLN:HE21	1.82	0.44
1:AR:408:A:H61	3:AT:15:G:H1'	1.83	0.44
1:AR:562:C:H5''	21:CU:71:LYS:HD2	1.99	0.44
1:AR:660:A:H5''	6:CF:100:PHE:CD2	2.53	0.44
1:AR:690:A:H2	14:CN:33:VAL:HG21	1.83	0.44
1:AR:1005:G:OP2	81:AR:3677:OHX:N6	2.51	0.44
1:AR:1543:G:OP1	16:CP:35:VAL:HG23	2.17	0.44
1:AR:1601:U:OP2	20:CT:38:ARG:HD3	2.18	0.44
1:AR:1615:C:H2'	1:AR:1616:U:H6	1.83	0.44
1:AR:1765:U:C5	20:CT:46:LYS:HD2	2.53	0.44
1:AR:1878:G:H5'	81:AR:3457:OHX:N3	2.33	0.44
1:AR:2309:A:H4'	81:AR:3478[B]:OHX:N3	2.33	0.44
1:AR:2595:A:OP1	81:AR:3545:OHX:N3	2.51	0.44
1:AR:2850:G:O6	81:AR:3552:OHX:N1	2.51	0.44
8:CH:175:LYS:HD3	8:CH:175:LYS:HA	1.65	0.44
10:CJ:152:LEU:HD23	10:CJ:198:ALA:HB3	1.99	0.44
14:CN:58:VAL:O	14:CN:69:VAL:HG23	2.18	0.44
18:CR:112:LEU:HA	18:CR:151:THR:O	2.18	0.44
24:CX:40:LYS:HG3	24:CX:57:MET:HG2	2.00	0.44
24:CX:114:ILE:HD11	24:CX:129:VAL:HG23	2.00	0.44
28:DB:15:ARG:HG2	28:DB:15:ARG:NH1	2.32	0.44
31:DE:25:LEU:CD2	31:DE:90:VAL:HG22	2.48	0.44
31:DE:40:LYS:HD3	31:DE:40:LYS:N	2.32	0.44
36:DJ:63:ARG:NH2	36:DJ:79:ASP:O	2.51	0.44
44:DR:82:THR:O	44:DR:86:LEU:HG	2.17	0.44
46:p0:188:VAL:HG23	46:p0:189:GLN:N	2.33	0.44
45:sM:84:LYS:HG2	45:sM:84:LYS:O	2.18	0.44
47:A:158:U:O2'	47:A:159:U:H3'	2.18	0.44
47:A:400:A:H61	56:J:29:LEU:HD12	1.83	0.44
47:A:526:A:P	72:Z:93:ARG:HH11	2.41	0.44
47:A:686:C:H2'	47:A:687:G:C8	2.53	0.44
47:A:737:A:C4	47:A:738:G:C8	3.06	0.44
47:A:968:U:OP1	47:A:1033:C:O2'	2.35	0.44
47:A:1071:U:H2'	47:A:1072:C:H6	1.83	0.44
47:A:1111:G:O6	81:A:1927:OHX:N5	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1172:G:H2'	47:A:1173:C:C6	2.53	0.44
47:A:1344:A:O2'	47:A:1345:A:H8	2.00	0.44
47:A:1541:G:H2'	47:A:1542:G:C4	2.53	0.44
47:A:1584:G:H22	47:A:1611:A:P	2.40	0.44
47:A:1584:G:H5'	64:R:123:ARG:H	1.82	0.44
49:C:78:ASP:HB2	49:C:79:HIS:ND1	2.33	0.44
52:F:180:LEU:HD11	52:F:192:ILE:HG22	2.00	0.44
56:J:152:ILE:HD12	56:J:153:GLU:H	1.82	0.44
57:K:136:VAL:HG23	57:K:137:GLY:N	2.33	0.44
58:L:38:LYS:HD3	58:L:41:TYR:CE1	2.53	0.44
60:N:32:LEU:CD1	60:N:101:ALA:HA	2.48	0.44
66:T:25:ASN:HB3	73:a:40:VAL:HG12	2.00	0.44
70:X:112:ASP:OD1	70:X:115:GLU:N	2.33	0.44
80:h:20:VAL:HG12	80:h:37:SER:HB2	2.00	0.44
80:h:157:VAL:HG12	80:h:168:THR:H	1.82	0.44
47:sR:197:A:H2'	47:sR:198:A:H8	1.83	0.44
47:sR:200:A:H2'	47:sR:201:G:H8	1.82	0.44
47:sR:496:G:N3	47:sR:496:G:H2'	2.33	0.44
47:sR:545:A:H4'	47:sR:546:U:H5'	1.99	0.44
47:sR:835:U:H2'	47:sR:836:U:C6	2.53	0.44
47:sR:867:G:OP2	61:c3:3:ARG:NH1	2.50	0.44
80:Rb:121:MET:SD	80:Rb:167:VAL:HG21	2.58	0.44
80:Rb:126:SER:O	80:Rb:151:VAL:HG12	2.18	0.44
80:Rb:220:ILE:CG2	80:Rb:234:LEU:HB2	2.47	0.44
48:s0:106:SER:O	48:s0:115:PHE:CD1	2.71	0.44
49:s1:84:ILE:HG23	49:s1:100:PHE:HE1	1.83	0.44
51:s3:32:GLU:CG	51:s3:57:ASP:HB2	2.47	0.44
53:s5:134:VAL:O	53:s5:138:THR:HG23	2.18	0.44
53:s5:146:THR:OG1	53:s5:220:VAL:HG23	2.18	0.44
53:s5:184:PHE:CD2	53:s5:185:ARG:HG2	2.53	0.44
54:s6:148:SER:OG	54:s6:149:LYS:N	2.51	0.44
56:s8:42:ARG:HD2	56:s8:59:ARG:HD2	2.00	0.44
56:s8:191:PHE:O	56:s8:195:ARG:HD3	2.18	0.44
61:c3:88:LEU:HD23	61:c3:88:LEU:HA	1.78	0.44
1:1:167:U:H2'	1:1:168:U:H6	1.82	0.43
1:1:438:A:OP1	33:AF:118:LYS:HE3	2.18	0.43
1:1:595:G:H1	1:1:609:G:H5''	1.83	0.43
1:1:916:G:H5'	1:1:917:A:OP1	2.18	0.43
1:1:947:G:H2'	1:1:948:C:C6	2.53	0.43
1:1:1157:G:H2'	1:1:1158:A:O4'	2.18	0.43
1:1:1223:A:C2	1:1:1224:C:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1385:C:OP1	6:l:141:ARG:NH1	2.50	0.43
1:1:1445:U:H5''	1:1:1446:A:OP2	2.18	0.43
1:1:1719:G:H4'	1:1:1732:U:H4'	2.00	0.43
1:1:1801:U:H2'	1:1:1802:C:C6	2.53	0.43
1:1:2384:A:OP1	81:1:4075:OHX:N6	2.52	0.43
1:1:3232:G:C6	1:1:3256:G:C6	3.06	0.43
2:3:22:A:H2'	2:3:23:A:H8	1.82	0.43
4:j:113:VAL:HG12	4:j:166:ILE:HD13	2.00	0.43
5:k:122:TRP:CE2	5:k:127:LYS:HE3	2.52	0.43
5:k:163:HIS:HD2	5:k:164:THR:O	2.02	0.43
5:k:222:LYS:O	5:k:272:TYR:N	2.51	0.43
81:v:301:OHX:N5	36:AI:97:ALA:O	2.51	0.43
21:0:2:ALA:HB3	21:0:32:SER:CB	2.47	0.43
22:2:17:ARG:NH1	22:2:21:LYS:O	2.51	0.43
23:5:104:ARG:HG3	23:5:105:LEU:N	2.33	0.43
33:AF:95:GLU:OE1	33:AF:120:THR:OG1	2.28	0.43
1:AR:121:A:C2	10:CJ:129:PRO:HG3	2.53	0.43
1:AR:806:A:O2'	1:AR:807:A:H5'	2.18	0.43
1:AR:1063:G:C6	22:CV:109:VAL:HG23	2.52	0.43
1:AR:1393:A:N3	1:AR:1419:A:O2'	2.45	0.43
1:AR:2361:A:H2'	1:AR:2362:C:H6	1.83	0.43
1:AR:2659:G:H4'	1:AR:2751:G:O2'	2.18	0.43
1:AR:3162:C:H2'	1:AR:3163:A:C8	2.53	0.43
2:AS:8:G:H2'	2:AS:9:C:C6	2.53	0.43
2:AS:49:G:H4'	2:AS:50:U:O5'	2.19	0.43
4:CD:45:VAL:HG22	4:CD:61:VAL:HG22	1.99	0.43
4:CD:180:LEU:C	4:CD:181:LYS:HG2	2.43	0.43
6:CF:216:VAL:HA	6:CF:227:THR:HG21	2.00	0.43
6:CF:262:TRP:O	6:CF:269:SER:HB2	2.18	0.43
7:CG:34:LYS:HE2	7:CG:38:THR:HG21	1.99	0.43
10:CJ:45:ASN:HD22	10:CJ:45:ASN:C	2.25	0.43
11:CK:29:GLY:HA3	11:CK:82:VAL:HG13	2.00	0.43
11:CK:74:LEU:HD23	11:CK:74:LEU:HA	1.80	0.43
14:CN:64:LYS:HA	29:DC:69:TRP:CE3	2.53	0.43
14:CN:104:ARG:HE	14:CN:104:ARG:HB2	1.70	0.43
14:CN:179:PHE:O	14:CN:182:ILE:N	2.50	0.43
20:CT:166:ASN:HD21	20:CT:167:ARG:HD2	1.83	0.43
29:DC:15:VAL:HG21	29:DC:21:ARG:HH22	1.83	0.43
31:DE:77:LEU:HG	31:DE:87:VAL:HG23	2.00	0.43
32:DF:29:ALA:HB3	32:DF:30:PRO:HD3	2.00	0.43
32:DF:83:GLU:O	32:DF:84:ASP:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DJ:7:TYR:HA	36:DJ:10:ARG:HH11	1.83	0.43
37:DK:90:MET:HA	37:DK:93:ILE:HG22	1.99	0.43
39:DM:12:LEU:HB3	39:DM:16:ARG:NH2	2.33	0.43
46:p0:11:TYR:OH	46:p0:54:GLY:HA3	2.17	0.43
47:A:350:U:H5''	47:A:352:A:H5'	1.99	0.43
47:A:521:A:N3	72:Z:34:ASN:OD1	2.51	0.43
47:A:582:U:H3'	47:A:583:C:H5	1.83	0.43
47:A:781:U:HO2'	47:A:782:U:H6	1.66	0.43
47:A:1252:C:O2'	79:g:132:LEU:HA	2.18	0.43
49:C:70:LEU:HD23	49:C:70:LEU:C	2.42	0.43
49:C:193:ILE:O	49:C:197:ILE:HG12	2.18	0.43
49:C:205:PHE:O	49:C:207:LEU:HB2	2.17	0.43
51:E:46:THR:C	51:E:84:ILE:HG13	2.43	0.43
51:E:105:MET:HE1	51:E:119:ALA:N	2.33	0.43
53:G:125:THR:CG2	53:G:127:GLN:HB2	2.48	0.43
54:H:137:ARG:O	54:H:141:ILE:HD12	2.18	0.43
60:N:98:GLY:HA3	60:N:116:VAL:O	2.18	0.43
63:Q:95:GLY:O	63:Q:102:PHE:HB3	2.18	0.43
64:R:140:LYS:HE3	64:R:142:TYR:HE1	1.79	0.43
67:U:10:ALA:HB3	67:U:13:ASP:OD1	2.18	0.43
68:V:52:LYS:HG2	68:V:93:LEU:CD2	2.48	0.43
70:X:38:LEU:HD23	70:X:41:MET:HE3	1.99	0.43
72:Z:29:HIS:N	72:Z:29:HIS:HD1	2.16	0.43
74:b:73:TYR:HB2	74:b:78:ALA:HB2	2.00	0.43
79:g:98:VAL:HG13	79:g:100:LEU:CD2	2.48	0.43
79:g:98:VAL:O	79:g:100:LEU:HD23	2.17	0.43
79:g:115:THR:OG1	79:g:116:LYS:N	2.51	0.43
47:sR:587:C:H2'	47:sR:588:U:C6	2.53	0.43
47:sR:604:A:H2'	47:sR:605:A:O4'	2.18	0.43
47:sR:909:U:O2'	47:sR:910:C:H5'	2.17	0.43
47:sR:1062:A:H3'	47:sR:1063:U:C6	2.53	0.43
47:sR:1298:U:O3'	50:s2:212:LYS:NZ	2.48	0.43
47:sR:1390:U:H6	47:sR:1412:G:H1'	1.83	0.43
47:sR:1697:G:H8	47:sR:1705:C:C2	2.36	0.43
48:s0:34:GLU:O	48:s0:37:VAL:HG12	2.18	0.43
48:s0:101:ARG:HG3	48:s0:102:PHE:N	2.33	0.43
48:s0:157:ASP:HB3	69:d1:69:LEU:HD12	1.99	0.43
51:s3:10:LYS:HD2	51:s3:14:ASP:OD1	2.17	0.43
52:s4:74:GLY:HA3	52:s4:164:LEU:HD21	2.00	0.43
53:s5:63:GLN:HB3	53:s5:88:PRO:HA	1.99	0.43
57:s9:171:ARG:NE	57:s9:171:ARG:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:c3:17:PRO:HB3	75:d7:28:PRO:HG3	1.99	0.43
63:c5:59:LYS:HA	63:c5:62:ALA:HB3	2.01	0.43
70:d2:77:PRO:HD2	70:d2:79:PHE:CE2	2.53	0.43
78:e0:53:LYS:C	78:e0:54:ARG:HG2	2.43	0.43
78:e0:59:GLY:O	78:e0:60:PRO:C	2.61	0.43
79:e1:133:ALA:N	79:e1:140:TYR:O	2.51	0.43
1:l:77:A:H5'	14:t:100:ARG:NH1	2.33	0.43
1:l:99:A:H1'	1:l:281:G:N7	2.34	0.43
1:l:563:U:H2'	1:l:564:G:H8	1.82	0.43
1:l:801:A:OP1	29:AB:27:LYS:NZ	2.33	0.43
1:l:1093:A:O2'	1:l:1094:U:O5'	2.33	0.43
1:l:1668:G:O3'	35:AH:30:LEU:HD21	2.18	0.43
1:l:1682:U:C6	23:5:85:LYS:HD3	2.52	0.43
1:l:1802:C:H2'	1:l:1803:C:H6	1.83	0.43
1:l:2096:A:H8	1:l:2096:A:O5'	2.00	0.43
1:l:2541:U:H1'	1:l:2542:U:P	2.58	0.43
1:l:2606:G:H2'	1:l:2606:G:N3	2.33	0.43
6:l:233:LEU:HD22	6:l:233:LEU:HA	1.63	0.43
7:m:126:GLU:HA	7:m:196:ARG:HD2	1.99	0.43
11:q:44:THR:HG21	15:u:12:TRP:CH2	2.53	0.43
17:w:12:LYS:HG3	17:w:40:GLU:HB3	1.99	0.43
18:x:30:ARG:HD3	18:x:30:ARG:C	2.43	0.43
19:y:170:ARG:NH1	29:AB:57:GLY:H	2.16	0.43
28:AA:121:ARG:HE	28:AA:121:ARG:HB2	1.43	0.43
36:AI:40:SER:OG	36:AI:42:PRO:HD3	2.17	0.43
42:AO:1:MET:HB3	47:A:1642:G:H5'	2.00	0.43
1:AR:65:A:C4	1:AR:110:G:N7	2.86	0.43
1:AR:150:A:C4	1:AR:151:A:C8	3.05	0.43
1:AR:437:G:H21	1:AR:622:A:H62	1.64	0.43
1:AR:1074:U:O2'	1:AR:1075:A:H2'	2.18	0.43
1:AR:1144:U:H1'	1:AR:1145:G:C8	2.53	0.43
1:AR:1301:A:H4'	1:AR:1302:A:O5'	2.18	0.43
1:AR:1470:U:H2'	1:AR:1471:U:C6	2.53	0.43
1:AR:1616:U:H2'	1:AR:1617:G:H8	1.83	0.43
1:AR:1805:C:C5'	35:DI:77:GLY:HA3	2.48	0.43
1:AR:3259:U:H5''	1:AR:3261:C:H5	1.83	0.43
7:CG:115:LEU:HD23	7:CG:115:LEU:H	1.83	0.43
8:CH:93:VAL:HG22	8:CH:96:VAL:HG21	2.00	0.43
11:CK:105:GLU:CB	11:CK:110:LYS:H	2.31	0.43
14:CN:64:LYS:HG3	29:DC:69:TRP:CG	2.53	0.43
15:CO:31:LYS:NZ	15:CO:51:ALA:O	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:76:ALA:O	19:CS:79:LYS:HG3	2.18	0.43
31:DE:40:LYS:NZ	31:DE:93:LEU:O	2.50	0.43
47:A:562:G:H2'	47:A:563:U:H6	1.83	0.43
47:A:812:A:OP1	47:A:814:A:C8	2.71	0.43
47:A:1081:A:O2'	47:A:1082:C:O5'	2.22	0.43
47:A:1275:A:C2	47:A:1438:G:C4	3.06	0.43
48:B:180:GLU:C	48:B:184:LEU:HD12	2.42	0.43
50:D:68:ILE:HG22	50:D:72:LEU:CD1	2.44	0.43
50:D:126:ARG:O	50:D:129:ILE:HG22	2.19	0.43
52:F:68:ARG:CZ	52:F:76:VAL:HG11	2.47	0.43
52:F:240:LYS:H	52:F:240:LYS:CD	2.07	0.43
59:M:127:GLN:HG3	59:M:137:PHE:CE2	2.53	0.43
63:Q:12:PHE:HD1	63:Q:13:LYS:N	2.16	0.43
66:T:8:GLN:CD	66:T:9:GLY:N	2.76	0.43
66:T:45:LEU:HD12	66:T:45:LEU:HA	1.56	0.43
66:T:122:HIS:CE1	66:T:126:ARG:HG3	2.53	0.43
74:b:59:TYR:O	74:b:61:GLU:N	2.52	0.43
76:d:27:GLN:HA	76:d:43:ASN:ND2	2.34	0.43
80:h:89:LEU:O	80:h:102:ARG:HA	2.18	0.43
47:sR:158:U:O2'	47:sR:159:U:H3'	2.17	0.43
47:sR:1422:A:H2'	47:sR:1423:U:H6	1.83	0.43
47:sR:1428:G:H3'	47:sR:1428:G:OP2	2.18	0.43
47:sR:1486:G:N2	47:sR:1522:U:O4	2.52	0.43
80:Rb:172:ALA:HB1	80:Rb:199:ILE:CD1	2.48	0.43
48:s0:20:ALA:O	48:s0:169:SER:HB2	2.17	0.43
51:s3:46:THR:O	51:s3:84:ILE:HD12	2.18	0.43
51:s3:91:VAL:CG2	51:s3:94:ARG:HB3	2.47	0.43
53:s5:174:LEU:HD13	53:s5:210:ALA:HB1	2.00	0.43
57:s9:34:PHE:O	57:s9:110:GLN:NE2	2.50	0.43
57:s9:176:ASN:HA	57:s9:179:ARG:HB3	2.00	0.43
59:c1:8:GLN:HE22	59:c1:14:GLN:N	2.16	0.43
64:c6:79:TYR:O	64:c6:82:ARG:HG2	2.18	0.43
67:c9:7:ARG:HH12	67:c9:67:MET:HB3	1.79	0.43
69:d1:41:GLU:CD	69:d1:42:GLU:H	2.26	0.43
71:d3:35:GLY:O	71:d3:39:LYS:HG2	2.18	0.43
73:d5:49:ARG:NH2	73:d5:69:LEU:HD12	2.32	0.43
1:l:75:G:H5'	14:t:58:VAL:CG2	2.47	0.43
1:l:973:A:OP2	19:y:12:ARG:NH1	2.45	0.43
1:l:1347:U:P	6:l:300:ARG:HH22	2.41	0.43
1:l:1455:U:HO2'	1:l:1456:A:H8	1.67	0.43
1:l:1565:G:H8	1:l:1565:G:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1567:U:H1'	1:1:1571:A:N6	2.33	0.43
1:1:2173:U:H2'	1:1:2174:G:C8	2.54	0.43
2:3:84:A:H2'	2:3:85:G:C8	2.54	0.43
5:k:5:LYS:O	5:k:5:LYS:HG3	2.16	0.43
5:k:169:THR:HG22	5:k:171:LEU:HG	2.00	0.43
5:k:347:SER:C	5:k:349:LYS:H	2.27	0.43
7:m:258:LYS:HG2	7:m:261:THR:CG2	2.38	0.43
11:q:20:ILE:HD13	11:q:45:PHE:CD2	2.53	0.43
30:AC:17:HIS:CE1	30:AC:21:ILE:HD11	2.53	0.43
39:AL:17:ARG:O	39:AL:17:ARG:HG2	2.18	0.43
39:AL:56:ILE:HG12	39:AL:61:LYS:HE3	1.99	0.43
39:AL:64:LYS:HA	39:AL:64:LYS:HD2	1.80	0.43
1:AR:207:U:H2'	1:AR:208:C:H6	1.84	0.43
1:AR:213:A:H5''	27:DA:2:ALA:N	2.33	0.43
1:AR:585:A:H4'	34:DH:72:THR:HB	2.00	0.43
1:AR:639:G:P	33:DG:37:GLY:HA3	2.59	0.43
1:AR:860:G:C5	4:CD:181:LYS:HB3	2.54	0.43
1:AR:1064:A:H5''	1:AR:1066:G:O4'	2.19	0.43
1:AR:1107:C:H2'	1:AR:1108:U:H6	1.84	0.43
1:AR:1672:U:H1'	1:AR:1776:G:N2	2.33	0.43
1:AR:2631:U:H4'	1:AR:2697:A:H2	1.83	0.43
1:AR:2971:A:H3'	1:AR:2971:A:N3	2.33	0.43
3:AT:65:A:O3'	36:DJ:10:ARG:NH2	2.50	0.43
8:CH:3:ALA:HB1	33:DG:75:LEU:HD23	2.00	0.43
8:CH:54:TYR:OH	8:CH:57:HIS:HB2	2.17	0.43
8:CH:108:LYS:O	8:CH:109:GLU:HB2	2.17	0.43
18:CR:119:VAL:HA	18:CR:145:HIS:O	2.17	0.43
19:CS:147:ARG:O	19:CS:150:VAL:HG22	2.19	0.43
19:CS:173:GLU:C	29:DC:51:GLY:HA3	2.43	0.43
20:CT:134:HIS:ND1	20:CT:136:ARG:HB3	2.33	0.43
23:CW:25:ASN:O	23:CW:27:VAL:HG23	2.19	0.43
47:A:127:G:N7	54:H:202:ARG:NH2	2.66	0.43
47:A:352:A:H8	47:A:352:A:OP2	2.02	0.43
47:A:488:G:H3'	47:A:489:C:C6	2.53	0.43
50:D:90:THR:HG22	50:D:93:GLY:O	2.19	0.43
50:D:169:LEU:HD11	50:D:217:ALA:HB1	1.98	0.43
52:F:118:GLU:HA	52:F:121:TYR:CE1	2.50	0.43
56:J:57:ALA:HB1	56:J:60:ILE:HG12	2.00	0.43
56:J:135:LYS:HA	56:J:140:GLU:OE1	2.19	0.43
57:K:56:ALA:HA	57:K:59:LEU:HD12	2.00	0.43
64:R:94:GLN:HA	64:R:94:GLN:HE21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:U:11:ALA:HA	67:U:63:ARG:NH1	2.25	0.43
71:Y:79:ASN:OD1	71:Y:81:LYS:HB2	2.18	0.43
72:Z:20:ARG:C	72:Z:21:LYS:HD3	2.43	0.43
80:h:36:ALA:HB3	80:h:71:CYS:SG	2.58	0.43
47:sR:449:C:H2'	47:sR:450:U:C6	2.54	0.43
47:sR:687:G:H2'	47:sR:687:G:N3	2.33	0.43
47:sR:824:G:H2'	47:sR:824:G:N3	2.33	0.43
47:sR:926:A:H2'	47:sR:927:C:H6	1.82	0.43
47:sR:1079:U:H2'	47:sR:1080:U:C6	2.54	0.43
47:sR:1476:C:H2'	47:sR:1477:G:H8	1.82	0.43
47:sR:1614:A:O2'	47:sR:1615:C:H5'	2.18	0.43
47:sR:1732:A:H2'	47:sR:1733:C:C6	2.53	0.43
50:s2:225:LEU:HD23	70:d2:68:ARG:HA	2.00	0.43
52:s4:18:TRP:CH2	52:s4:31:PRO:HD3	2.50	0.43
54:s6:216:LEU:HD12	54:s6:216:LEU:HA	1.84	0.43
55:s7:166:LEU:O	55:s7:170:GLN:HG3	2.18	0.43
57:s9:80:LEU:HD23	57:s9:80:LEU:HA	1.85	0.43
67:c9:14:PHE:HZ	67:c9:132:LEU:HD23	1.83	0.43
76:d8:11:LYS:H	76:d8:33:LEU:HD21	1.82	0.43
1:1:19:U:H3	3:4:140:G:H1	1.67	0.43
1:1:83:U:H2'	1:1:84:U:O4'	2.19	0.43
1:1:631:U:H2'	1:1:632:G:C8	2.54	0.43
1:1:830:A:H2'	1:1:831:G:O4'	2.19	0.43
1:1:948:C:H2'	1:1:949:C:H6	1.84	0.43
1:1:1155:C:OP1	9:o:94:LYS:NZ	2.51	0.43
1:1:1580:A:H1'	1:1:1581:C:C5	2.53	0.43
1:1:1634:G:N7	28:AA:17:ARG:NH2	2.65	0.43
1:1:2896:A:OP2	41:AN:102:ARG:NH1	2.51	0.43
1:1:3136:G:OP2	81:1:3577:OHX:N6	2.52	0.43
7:m:86:TYR:CE1	7:m:247:ILE:HA	2.54	0.43
7:m:153:THR:CG2	7:m:179:ARG:HD2	2.45	0.43
8:n:22:ARG:C	8:n:23:LYS:HG2	2.43	0.43
8:n:40:LEU:O	8:n:51:ARG:HA	2.18	0.43
12:r:30:LYS:HG2	12:r:63:GLU:HG3	2.00	0.43
12:r:211:ARG:O	12:r:214:PRO:HD3	2.18	0.43
16:v:188:ARG:HG3	16:v:188:ARG:NH1	2.32	0.43
20:z:115:ILE:CD1	20:z:120:TYR:HB2	2.48	0.43
36:AI:84:LYS:H	36:AI:84:LYS:HG3	1.49	0.43
37:AJ:67:LYS:H	37:AJ:67:LYS:CD	2.29	0.43
45:i:137:GLU:CD	45:i:137:GLU:N	2.76	0.43
1:AR:241:G:O2'	1:AR:242:C:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:916:G:H5'	1:AR:917:A:OP1	2.18	0.43
1:AR:1644:C:H5''	1:AR:1645:U:H5''	2.01	0.43
1:AR:1695:U:O2'	1:AR:1749:A:N1	2.45	0.43
1:AR:2763:U:O2	83:AR:4206:SPD:N10	2.49	0.43
1:AR:3233:C:H2'	1:AR:3234:A:C8	2.52	0.43
2:AS:1:G:C2	2:AS:2:G:C8	3.06	0.43
2:AS:119:U:OP1	7:CG:256:THR:HG23	2.19	0.43
5:CE:34:LYS:HA	5:CE:34:LYS:HD2	1.86	0.43
8:CH:36:PRO:HA	8:CH:54:TYR:CD2	2.53	0.43
10:CJ:134:TYR:CE2	10:CJ:190:VAL:HG11	2.53	0.43
19:CS:94:PHE:CE2	29:DC:119:PRO:HD3	2.53	0.43
31:DE:70:PHE:HD1	31:DE:72:GLY:N	2.16	0.43
37:DK:43:LEU:O	37:DK:47:ILE:HD12	2.19	0.43
47:A:78:A:C8	54:H:154:ARG:HB3	2.53	0.43
47:A:108:A:H2'	47:A:109:G:H8	1.77	0.43
47:A:197:A:H61	56:J:141:ARG:HH22	1.67	0.43
47:A:333:A:N7	56:J:49:ARG:HD3	2.33	0.43
47:A:635:A:H2'	47:A:636:A:C8	2.52	0.43
47:A:838:G:H4'	59:M:26:LYS:O	2.19	0.43
47:A:1071:U:H2'	47:A:1072:C:C6	2.53	0.43
47:A:1230:A:H2'	47:A:1258:U:C5	2.53	0.43
47:A:1285:U:OP1	81:A:1958:OHX:N4	2.52	0.43
47:A:1430:U:H1'	68:V:72:ASN:HD22	1.82	0.43
47:A:1559:A:H3'	47:A:1559:A:N3	2.33	0.43
47:A:1649:G:H2'	47:A:1650:U:H6	1.79	0.43
47:A:1673:G:H2'	47:A:1674:C:C6	2.48	0.43
51:E:96:LEU:O	51:E:96:LEU:HD23	2.17	0.43
52:F:71:LYS:HB2	52:F:91:THR:HG23	2.00	0.43
53:G:187:ILE:CD1	73:a:63:SER:HA	2.47	0.43
54:H:48:TYR:CD2	54:H:117:GLY:HA3	2.53	0.43
59:M:118:GLN:HG2	59:M:119:VAL:H	1.83	0.43
60:N:71:ILE:HG22	60:N:71:ILE:O	2.18	0.43
63:Q:97:TYR:HD2	63:Q:102:PHE:CD2	2.35	0.43
71:Y:126:LYS:HG2	71:Y:131:SER:H	1.84	0.43
72:Z:27:VAL:HG22	72:Z:69:SER:HB2	2.00	0.43
47:sR:215:A:H2'	47:sR:216:U:O4'	2.18	0.43
47:sR:492:A:C2'	47:sR:493:U:H5''	2.49	0.43
47:sR:500:C:H2'	47:sR:501:U:C6	2.53	0.43
47:sR:886:U:C2	47:sR:887:A:C8	3.06	0.43
47:sR:1067:C:H5''	49:s1:150:VAL:H	1.83	0.43
47:sR:1294:G:O2'	47:sR:1321:A:N1	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1740:A:H2'	47:sR:1741:U:C6	2.54	0.43
47:sR:1796:C:OP2	74:d6:5:ARG:NH2	2.46	0.43
80:Rb:68:VAL:HG23	80:Rb:83:ALA:H	1.82	0.43
48:s0:49:ASN:OD1	48:s0:52:LYS:HG3	2.18	0.43
49:s1:207:LEU:HD23	49:s1:207:LEU:HA	1.58	0.43
57:s9:129:ILE:HG22	57:s9:142:ASN:CA	2.43	0.43
58:c0:70:GLU:OE1	58:c0:70:GLU:N	2.42	0.43
59:c1:72:THR:O	59:c1:88:ARG:HG2	2.18	0.43
62:c4:85:ALA:HB2	62:c4:94:PRO:HA	1.99	0.43
1:1:191:U:H2'	1:1:192:C:C6	2.54	0.43
1:1:300:G:N7	81:1:3605:OHX:N5	2.67	0.43
1:1:412:G:OP1	18:x:62:ARG:NH1	2.51	0.43
1:1:873:C:H5''	1:1:874:U:O5'	2.19	0.43
1:1:952:A:N3	1:1:1114:U:O2'	2.38	0.43
1:1:1031:C:H2'	1:1:1032:C:C6	2.54	0.43
1:1:1045:C:OP1	12:r:133:GLN:NE2	2.52	0.43
1:1:1352:A:H1'	1:1:1353:U:H6	1.82	0.43
1:1:1574:C:H2'	1:1:1575:A:C8	2.54	0.43
1:1:1643:A:H2'	1:1:1644:C:C2	2.54	0.43
1:1:1826:C:H2'	1:1:1827:C:C6	2.53	0.43
1:1:2359:C:H2'	1:1:2360:C:C6	2.54	0.43
1:1:2707:C:H2'	1:1:2708:C:C6	2.54	0.43
2:3:77:G:O4'	21:0:50:LYS:HE2	2.19	0.43
5:k:59:ASP:CG	5:k:357:LYS:HZ2	2.27	0.43
13:s:63:GLU:HB3	13:s:65:ILE:HG23	2.01	0.43
13:s:91:LEU:HD12	13:s:163:PHE:CZ	2.53	0.43
14:t:85:LEU:HD22	14:t:120:GLN:OE1	2.18	0.43
15:u:55:ARG:NH1	15:u:76:ALA:O	2.50	0.43
27:9:40:ARG:HG3	27:9:46:LYS:HA	2.00	0.43
28:AA:22:LYS:HD3	28:AA:129:TRP:CZ3	2.53	0.43
28:AA:120:GLU:HA	28:AA:120:GLU:OE1	2.17	0.43
31:AD:99:ASP:O	31:AD:103:THR:HG23	2.18	0.43
36:AI:70:TYR:HA	36:AI:73:LYS:NZ	2.33	0.43
1:AR:26:A:C5	1:AR:27:C:C5	3.07	0.43
1:AR:542:G:H1	1:AR:549:U:H3	1.65	0.43
1:AR:796:U:H2'	1:AR:797:U:H6	1.84	0.43
1:AR:943:U:H3'	29:DC:13:GLY:HA2	2.01	0.43
1:AR:2571:U:O2'	1:AR:2572:C:H2'	2.19	0.43
1:AR:2836:C:H5	1:AR:2852:C:N4	2.13	0.43
1:AR:2940:A:N7	5:CE:2:SER:N	2.66	0.43
1:AR:2997:G:H1'	1:AR:3395:G:O3'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:120:TYR:HD1	6:CF:120:TYR:O	2.02	0.43
7:CG:52:VAL:CG2	7:CG:63:GLN:HB2	2.48	0.43
13:CM:164:LYS:HE3	13:CM:171:VAL:HG22	2.00	0.43
19:CS:8:LYS:HE3	19:CS:8:LYS:HB2	1.87	0.43
23:CW:96:VAL:HG12	23:CW:97:SER:N	2.32	0.43
23:CW:104:ARG:CG	23:CW:105:LEU:N	2.81	0.43
28:DB:101:PHE:HA	28:DB:107:ARG:HG2	2.00	0.43
29:DC:47:LYS:O	29:DC:48:TYR:CD2	2.71	0.43
37:DK:35:ASN:HA	37:DK:38:LYS:HE3	2.00	0.43
38:DL:28:HIS:HE1	38:DL:30:GLN:HB2	1.83	0.43
38:DL:65:ARG:HG3	38:DL:65:ARG:NH1	2.22	0.43
47:A:348:U:OP1	59:M:85:VAL:HG11	2.19	0.43
47:A:805:U:O4'	70:X:105:THR:HG21	2.18	0.43
47:A:1010:C:H2'	47:A:1011:G:O4'	2.18	0.43
47:A:1097:U:C3'	50:D:159:THR:HG21	2.49	0.43
47:A:1182:U:O2	47:A:1184:A:C8	2.71	0.43
47:A:1353:U:H2'	47:A:1354:G:O4'	2.18	0.43
47:A:1489:U:H5'	47:A:1494:C:H1'	2.00	0.43
49:C:81:PHE:CE1	49:C:82:ARG:NE	2.86	0.43
50:D:50:ILE:HA	50:D:50:ILE:HD13	1.66	0.43
50:D:112:GLY:HA3	50:D:132:ALA:O	2.18	0.43
50:D:169:LEU:HB3	50:D:196:VAL:CG2	2.48	0.43
51:E:133:GLY:HA3	51:E:157:LEU:HD12	2.00	0.43
52:F:120:SER:O	52:F:163:ASP:O	2.36	0.43
53:G:163:SER:HB2	76:d:48:VAL:HG22	2.01	0.43
55:I:83:LYS:HG3	55:I:84:LYS:N	2.33	0.43
56:J:142:LYS:O	56:J:146:ARG:HG3	2.19	0.43
56:J:192:TYR:O	56:J:196:LEU:HD12	2.19	0.43
58:L:44:LYS:HB3	58:L:44:LYS:HE3	1.80	0.43
58:L:72:GLY:O	58:L:76:LEU:HD23	2.17	0.43
59:M:53:TYR:CG	59:M:113:PRO:HG2	2.53	0.43
61:O:3:ARG:HB3	61:O:6:SER:HB2	2.00	0.43
64:R:93:HIS:ND1	64:R:101:SER:OG	2.49	0.43
64:R:103:ASN:O	64:R:107:LYS:HB3	2.19	0.43
64:R:140:LYS:HG3	64:R:141:SER:H	1.83	0.43
65:S:74:GLN:HA	65:S:77:GLU:HB2	1.99	0.43
74:b:61:GLU:N	74:b:61:GLU:CD	2.77	0.43
80:h:114:ASP:OD2	80:h:156:VAL:N	2.52	0.43
80:h:238:ASP:HB3	80:h:257:ALA:H	1.83	0.43
80:h:249:ARG:HH21	80:h:315:VAL:HG11	1.84	0.43
47:sR:222:A:H2'	47:sR:223:U:O4'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:256:A:H2'	47:sR:257:A:O4'	2.18	0.43
47:sR:447:U:H2'	47:sR:448:C:O4'	2.19	0.43
47:sR:463:U:H2'	47:sR:464:A:C8	2.53	0.43
47:sR:499:U:H2'	47:sR:500:C:C6	2.53	0.43
47:sR:542:A:O2'	47:sR:543:C:O5'	2.30	0.43
47:sR:640:U:H2'	47:sR:641:G:O4'	2.18	0.43
47:sR:641:G:H2'	47:sR:642:G:O4'	2.19	0.43
47:sR:729:G:C4	47:sR:730:G:C8	3.06	0.43
47:sR:747:C:O3'	70:d2:80:ASN:OD1	2.37	0.43
47:sR:1049:U:H2'	47:sR:1050:G:C8	2.53	0.43
47:sR:1102:G:H2'	47:sR:1103:U:O4'	2.18	0.43
47:sR:1223:A:H2'	47:sR:1224:A:C8	2.51	0.43
47:sR:1515:A:OP2	51:s3:7:LYS:HG3	2.18	0.43
47:sR:1523:G:C8	67:c9:79:LEU:HD13	2.53	0.43
80:Rb:40:LYS:HD3	80:Rb:66:HIS:HA	1.99	0.43
80:Rb:171:SER:CB	80:Rb:181:TRP:HE1	2.25	0.43
50:s2:115:ILE:O	50:s2:116:LYS:HB3	2.18	0.43
50:s2:147:ASN:OD1	69:d1:4:ASP:N	2.52	0.43
51:s3:11:LEU:HD23	51:s3:11:LEU:HA	1.78	0.43
52:s4:141:THR:OG1	52:s4:145:ARG:HB2	2.19	0.43
57:s9:158:PHE:CD2	57:s9:164:PHE:HB2	2.52	0.43
58:c0:46:LEU:HD23	58:c0:46:LEU:HA	1.74	0.43
67:c9:37:VAL:O	67:c9:46:PRO:HB3	2.18	0.43
70:d2:86:ILE:O	70:d2:90:THR:HG23	2.19	0.43
70:d2:95:PRO:HD3	70:d2:130:TYR:CD2	2.53	0.43
73:d5:61:SER:H	73:d5:64:VAL:CG2	2.26	0.43
75:d7:76:GLY:O	75:d7:77:THR:HG23	2.19	0.43
1:1:282:G:O2'	1:1:283:G:OP2	2.31	0.43
1:1:439:C:H3'	1:1:440:A:N7	2.33	0.43
1:1:547:G:H4'	1:1:548:G:OP1	2.17	0.43
1:1:1162:U:H4'	33:AF:57:TYR:CE1	2.54	0.43
1:1:1332:A:H2'	1:1:1333:C:H6	1.84	0.43
1:1:1392:G:H1'	1:1:1418:A:N6	2.34	0.43
1:1:1591:G:OP1	35:AH:16:ARG:NH2	2.51	0.43
1:1:1720:U:O4	20:z:125:LYS:HE2	2.19	0.43
1:1:1790:G:O6	81:1:4129:OHX:N5	2.51	0.43
1:1:1807:G:C6	1:1:1808:G:N1	2.86	0.43
1:1:2412:G:H2'	1:1:2413:A:C8	2.53	0.43
1:1:2660:G:H1'	1:1:2744:U:H1'	2.00	0.43
1:1:2672:G:O3'	13:s:95:ASN:HA	2.19	0.43
3:4:152:G:H2'	3:4:153:U:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:92:TYR:O	5:k:155:ALA:HA	2.19	0.43
5:k:212:ASN:O	5:k:281:LYS:HE3	2.19	0.43
6:l:63:GLU:C	6:l:75:PRO:HA	2.42	0.43
9:o:190:THR:O	9:o:191:VAL:C	2.61	0.43
10:p:241:LYS:O	10:p:245:LYS:HG2	2.18	0.43
12:r:188:GLY:O	12:r:216:TYR:HB2	2.17	0.43
13:s:51:ARG:O	13:s:61:ARG:HG3	2.19	0.43
17:w:128:ARG:HD2	17:w:128:ARG:HA	1.70	0.43
18:x:27:LYS:HE2	18:x:63:PHE:CD1	2.52	0.43
24:6:79:VAL:HB	24:6:118:VAL:HG22	2.01	0.43
26:8:100:LYS:HG2	26:8:105:VAL:O	2.19	0.43
32:AE:15:ASN:HD21	32:AE:17:HIS:HB3	1.83	0.43
32:AE:56:ASN:O	32:AE:60:TRP:HD1	2.01	0.43
1:AR:130:A:H2'	1:AR:131:C:C6	2.54	0.43
1:AR:411:U:H2'	1:AR:412:G:H8	1.83	0.43
1:AR:559:A:H2'	1:AR:560:G:O4'	2.19	0.43
1:AR:700:C:OP1	14:CN:65:TYR:OH	2.30	0.43
1:AR:783:A:OP2	81:AR:3668:OHX:N6	2.52	0.43
1:AR:1622:U:H2'	1:AR:1623:G:O4'	2.19	0.43
1:AR:2677:G:OP2	81:AR:3646:OHX:N5	2.51	0.43
1:AR:2924:U:O2'	81:AR:3554:OHX:N2	2.51	0.43
1:AR:3191:G:OP1	17:CQ:172:ARG:HD2	2.18	0.43
1:AR:3386:G:H4'	32:DF:10:ARG:NH1	2.34	0.43
2:AS:81:U:O4	81:AS:3505:OHX:N6	2.52	0.43
10:CJ:81:THR:HG21	10:CJ:181:LYS:HG3	1.99	0.43
12:CL:101:LYS:HA	12:CL:101:LYS:HD2	1.62	0.43
13:CM:38:GLU:HG3	13:CM:39:GLN:N	2.34	0.43
14:CN:48:PRO:HA	14:CN:137:GLN:CB	2.49	0.43
14:CN:109:PHE:CD1	37:DK:20:MET:HE1	2.53	0.43
18:CR:59:PRO:HG3	18:CR:76:PHE:CG	2.53	0.43
20:CT:74:ARG:CD	20:CT:74:ARG:N	2.82	0.43
28:DB:75:VAL:HG22	28:DB:76:ASN:O	2.18	0.43
34:DH:44:TYR:O	34:DH:47:LYS:HB2	2.18	0.43
43:DQ:40:LYS:HE3	43:DQ:44:ASP:OD2	2.18	0.43
47:A:542:A:H5''	47:A:544:A:C8	2.53	0.43
47:A:649:U:O2'	47:A:650:U:H6	2.01	0.43
47:A:755:A:H2'	47:A:756:A:C8	2.52	0.43
47:A:862:A:P	61:O:20:ARG:HE	2.41	0.43
48:B:84:ARG:HH11	48:B:204:TYR:CB	2.32	0.43
48:B:110:TYR:HD1	50:D:64:LYS:CE	2.32	0.43
49:C:135:LEU:HD23	49:C:136:ARG:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D:39:THR:HB	50:D:42:GLY:H	1.84	0.43
50:D:143:TYR:HE2	50:D:148:LEU:O	2.01	0.43
51:E:211:PRO:HD3	65:S:20:TYR:CZ	2.54	0.43
53:G:114:ILE:O	53:G:115:LYS:C	2.61	0.43
54:H:137:ARG:HD3	54:H:177:ARG:CD	2.48	0.43
57:K:134:ILE:HG23	57:K:158:PHE:CD1	2.54	0.43
60:N:32:LEU:HD12	60:N:101:ALA:HA	2.01	0.43
60:N:97:LEU:HD12	60:N:97:LEU:O	2.18	0.43
63:Q:111:MET:HG2	66:T:119:ILE:CG2	2.48	0.43
70:X:11:LEU:HD12	70:X:74:VAL:HB	2.00	0.43
73:a:77:ARG:HB2	73:a:77:ARG:NH1	2.33	0.43
80:h:35:SER:OG	80:h:36:ALA:N	2.51	0.43
80:h:67:ILE:HB	80:h:85:TRP:CD2	2.53	0.43
47:sR:151:G:O2'	54:s6:13:GLN:NE2	2.52	0.43
47:sR:946:U:H2'	47:sR:947:U:O4'	2.19	0.43
47:sR:1039:A:O2'	47:sR:1040:G:OP2	2.35	0.43
47:sR:1086:A:H2'	47:sR:1087:A:C8	2.53	0.43
47:sR:1523:G:N7	67:c9:64:HIS:NE2	2.65	0.43
47:sR:1673:G:H2'	47:sR:1674:C:H6	1.82	0.43
53:s5:201:ALA:N	53:s5:208:SER:OG	2.52	0.43
54:s6:67:VAL:CG2	54:s6:68:LEU:H	2.31	0.43
54:s6:152:ASP:HB3	54:s6:154:ARG:HH12	1.83	0.43
55:s7:6:ALA:HB3	55:s7:7:LYS:NZ	2.33	0.43
56:s8:61:GLU:HB2	56:s8:62:THR:HG23	2.01	0.43
61:c3:139:TRP:C	61:c3:140:LYS:HG2	2.43	0.43
66:c8:25:ASN:HB3	73:d5:40:VAL:CG1	2.46	0.43
1:1:15:C:P	26:8:42:ARG:HH21	2.41	0.43
1:1:1214:U:H2'	1:1:1215:U:C6	2.54	0.43
1:1:1574:C:H2'	1:1:1575:A:H8	1.84	0.43
1:1:1852:G:H1'	38:AK:9:GLY:HA3	2.00	0.43
1:1:3009:G:O6	81:1:4094:OHX:N2	2.52	0.43
1:1:3094:A:OP1	24:6:14:SER:HB2	2.17	0.43
1:1:3164:C:O2'	1:1:3165:A:H8	2.01	0.43
4:j:128:ARG:HA	4:j:169:ILE:CD1	2.49	0.43
6:l:203:ARG:NH1	6:l:240:PRO:HB3	2.34	0.43
7:m:270:LYS:HA	7:m:273:ARG:HB3	2.00	0.43
10:p:95:ASN:HD21	10:p:98:ARG:HH22	1.67	0.43
12:r:24:ARG:HE	12:r:24:ARG:HB2	1.64	0.43
13:s:26:SER:HB3	13:s:63:GLU:O	2.18	0.43
13:s:28:ASP:HA	13:s:31:THR:CG2	2.49	0.43
15:u:133:LYS:HG3	15:u:134:ALA:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:w:181:ALA:O	17:w:184:THR:HG22	2.19	0.43
26:8:50:ALA:HB2	36:AI:77:PRO:CG	2.46	0.43
28:AA:16:GLY:O	28:AA:17:ARG:C	2.62	0.43
28:AA:90:GLU:OE1	28:AA:90:GLU:N	2.51	0.43
33:AF:32:TRP:CZ2	33:AF:53:PRO:HD2	2.54	0.43
34:AG:29:LEU:HD22	34:AG:75:HIS:CD2	2.54	0.43
36:AI:85:THR:HG22	36:AI:88:LEU:HD12	2.00	0.43
43:AP:71:ARG:NH1	43:AP:71:ARG:HG2	2.33	0.43
1:AR:900:G:H2'	1:AR:901:G:C8	2.54	0.43
1:AR:1083:G:H2'	1:AR:1084:A:C8	2.54	0.43
1:AR:1525:G:H5'	1:AR:1830:G:OP2	2.18	0.43
1:AR:2361:A:H2'	1:AR:2362:C:C6	2.54	0.43
2:AS:57:G:H3'	2:AS:58:C:C6	2.53	0.43
4:CD:28:LYS:HZ2	4:CD:28:LYS:HG2	1.78	0.43
5:CE:21:ARG:HG2	5:CE:269:GLN:HG2	2.01	0.43
5:CE:53:MET:HG2	5:CE:76:VAL:O	2.19	0.43
10:CJ:106:LYS:C	10:CJ:109:LEU:H	2.25	0.43
13:CM:59:ILE:HB	13:CM:65:ILE:HD11	1.99	0.43
14:CN:107:GLU:OE2	37:DK:18:THR:HG23	2.18	0.43
14:CN:157:ARG:NH2	29:DC:124:ILE:HG21	2.33	0.43
16:CP:68:ARG:HA	16:CP:98:LEU:HD21	2.00	0.43
20:CT:12:ALA:HB1	20:CT:17:VAL:O	2.18	0.43
20:CT:133:LYS:HE3	20:CT:133:LYS:HB3	1.72	0.43
30:DD:22:LYS:HA	30:DD:22:LYS:HD3	1.88	0.43
33:DG:4:LEU:HG	33:DG:5:PRO:HD2	2.01	0.43
36:DJ:54:VAL:O	36:DJ:58:ILE:HG13	2.19	0.43
37:DK:79:SER:OG	37:DK:81:THR:HG22	2.18	0.43
41:DO:126:LYS:HA	41:DO:126:LYS:HD3	1.79	0.43
47:A:78:A:H8	54:H:154:ARG:HB3	1.83	0.43
47:A:189:C:C2'	47:A:190:C:H5'	2.48	0.43
47:A:337:G:H1'	56:J:10:LYS:NZ	2.33	0.43
47:A:720:G:N3	47:A:720:G:H2'	2.33	0.43
47:A:899:G:C4'	62:P:46:MET:HE1	2.46	0.43
47:A:959:U:OP1	75:c:30:SER:HB2	2.19	0.43
47:A:1223:A:H2'	47:A:1224:A:H8	1.83	0.43
47:A:1231:U:H4'	47:A:1258:U:H6	1.84	0.43
47:A:1253:U:H4'	79:g:143:LYS:H	1.84	0.43
47:A:1391:A:C4	47:A:1392:U:C5	3.07	0.43
47:A:1405:G:H2'	47:A:1406:A:C8	2.53	0.43
52:F:78:THR:O	52:F:78:THR:OG1	2.33	0.43
53:G:98:MET:H	53:G:98:MET:HG2	1.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:G:215:ASP:HB2	53:G:216:GLU:OE1	2.19	0.43
57:K:66:ASP:O	57:K:70:LEU:HD22	2.19	0.43
63:Q:34:VAL:HG11	63:Q:45:PHE:CB	2.48	0.43
65:S:57:LEU:O	65:S:61:ILE:HG23	2.18	0.43
72:Z:132:ARG:HG2	72:Z:132:ARG:O	2.19	0.43
73:a:71:ILE:HD11	73:a:75:LEU:O	2.19	0.43
73:a:91:PRO:HB3	73:a:101:TYR:CE1	2.54	0.43
74:b:58:VAL:HG13	74:b:59:TYR:CD2	2.53	0.43
78:f:29:LYS:HE2	78:f:29:LYS:N	2.33	0.43
47:sR:119:A:H1'	47:sR:397:A:C4	2.53	0.43
47:sR:125:U:H5''	52:s4:148:ARG:HH11	1.83	0.43
47:sR:585:A:H2'	47:sR:586:G:C8	2.53	0.43
47:sR:1087:A:H2'	47:sR:1088:A:C8	2.54	0.43
47:sR:1097:U:O3'	50:s2:159:THR:HG21	2.19	0.43
47:sR:1138:A:H2'	47:sR:1139:A:H8	1.84	0.43
47:sR:1285:U:H3'	47:sR:1286:U:H6	1.83	0.43
47:sR:1459:C:OP2	47:sR:1459:C:H6	2.02	0.43
47:sR:1539:G:C2	66:c8:30:TYR:CE1	3.07	0.43
47:sR:1572:G:H8	53:s5:185:ARG:NH2	2.16	0.43
47:sR:1637:C:OP2	81:sR:1971:OHX:N4	2.52	0.43
47:sR:1794:A:H1'	74:d6:79:ILE:HD12	2.00	0.43
48:s0:73:VAL:HG23	48:s0:95:ALA:HA	2.01	0.43
51:s3:4:LEU:HD23	51:s3:4:LEU:HA	1.84	0.43
51:s3:58:VAL:HG22	51:s3:66:ILE:HD12	2.00	0.43
52:s4:132:GLY:N	52:s4:136:VAL:O	2.49	0.43
53:s5:137:ILE:HA	53:s5:140:THR:HG23	2.00	0.43
54:s6:3:LEU:O	54:s6:15:THR:HA	2.18	0.43
55:s7:98:ILE:HD11	55:s7:121:VAL:HG21	2.00	0.43
56:s8:48:THR:CG2	56:s8:52:ASN:HB2	2.49	0.43
56:s8:87:ASN:HD22	56:s8:88:ASN:N	2.17	0.43
57:s9:86:LEU:HA	57:s9:86:LEU:HD12	1.64	0.43
59:c1:91:LEU:CD2	59:c1:102:LYS:HD2	2.49	0.43
61:c3:93:LYS:O	61:c3:97:SER:OG	2.35	0.43
63:c5:44:ARG:NH1	63:c5:82:ASN:O	2.50	0.43
63:c5:108:ARG:N	63:c5:111:MET:SD	2.91	0.43
64:c6:35:PRO:HG2	64:c6:38:LEU:HD23	2.01	0.43
69:d1:3:ASN:HD21	69:d1:5:LYS:HB2	1.84	0.43
75:d7:36:LYS:HE3	75:d7:37:CYS:H	1.84	0.43
1:1:417:A:H2'	1:1:418:A:H8	1.82	0.43
1:1:562:C:H2'	1:1:563:U:C6	2.53	0.43
1:1:1034:U:C2	1:1:1035:G:C8	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1334:U:H1'	9:o:208:SER:HB2	2.00	0.43
1:1:2407:C:H2'	1:1:2408:U:C6	2.54	0.43
1:1:2413:A:O2'	1:1:2414:G:H5'	2.19	0.43
1:1:3228:C:C3'	15:u:137:LYS:HZ1	2.31	0.43
2:3:60:G:H2'	2:3:61:G:H8	1.83	0.43
4:j:181:LYS:HE2	4:j:184:ARG:NH1	2.30	0.43
5:k:284:ARG:NH1	5:k:293:ASN:O	2.52	0.43
11:q:106:LYS:H	11:q:109:ALA:CB	2.31	0.43
14:t:119:TYR:O	14:t:123:ILE:HG23	2.19	0.43
19:y:153:PHE:O	19:y:161:LYS:HD2	2.19	0.43
23:5:50:LEU:HB3	23:5:54:VAL:HG23	2.00	0.43
25:7:10:GLY:HA3	25:7:53:VAL:CG1	2.49	0.43
27:9:57:LEU:HD23	27:9:67:GLU:HB3	1.99	0.43
28:AA:108:GLU:HA	28:AA:111:LYS:NZ	2.34	0.43
40:AM:28:ARG:HA	40:AM:33:ASN:ND2	2.34	0.43
45:i:61:ILE:HG13	66:T:128:PHE:HD2	1.84	0.43
1:AR:160:G:H2'	1:AR:161:G:O4'	2.19	0.43
1:AR:1220:U:O2	81:AR:3622:OHX:N4	2.52	0.43
1:AR:1666:G:H2'	1:AR:1667:A:H8	1.84	0.43
1:AR:1742:U:H2'	1:AR:1743:G:H8	1.84	0.43
1:AR:1867:A:H2'	1:AR:1868:G:H8	1.81	0.43
1:AR:2667:A:H5''	45:sM:33:LYS:HE3	2.00	0.43
1:AR:2885:C:O2'	1:AR:2886:U:H5'	2.19	0.43
1:AR:3287:U:H2'	1:AR:3288:G:C5'	2.48	0.43
1:AR:3315:G:H2'	5:CE:123:TYR:CD2	2.54	0.43
5:CE:43:LEU:HB2	5:CE:208:VAL:CG1	2.49	0.43
6:CF:351:PRO:HA	9:CI:71:ALA:HA	2.00	0.43
11:CK:25:VAL:O	11:CK:35:THR:HA	2.19	0.43
11:CK:137:SER:CB	11:CK:143:GLU:HB3	2.48	0.43
15:CO:19:ARG:HA	15:CO:69:THR:HG22	1.99	0.43
21:CU:45:LEU:HA	21:CU:45:LEU:HD22	1.83	0.43
23:CW:21:SER:C	23:CW:107:PHE:CE2	2.97	0.43
31:DE:101:LEU:H	31:DE:101:LEU:CD1	2.32	0.43
47:A:434:G:H5'	71:Y:78:LYS:CB	2.48	0.43
47:A:559:C:H4'	78:f:60:PRO:HG3	1.99	0.43
47:A:736:C:H5'	47:A:737:A:OP2	2.19	0.43
47:A:1322:A:H2'	47:A:1323:C:C6	2.54	0.43
47:A:1487:A:H2'	47:A:1488:G:O4'	2.18	0.43
47:A:1535:U:OP1	47:A:1535:U:H4'	2.18	0.43
48:B:27:ARG:O	48:B:29:VAL:N	2.52	0.43
48:B:59:LEU:CD1	69:W:78:LEU:HD12	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:C:48:VAL:HG13	49:C:49:ASN:H	1.83	0.43
50:D:160:GLY:HA3	50:D:213:ALA:O	2.18	0.43
50:D:188:LEU:HA	50:D:191:ALA:HB3	2.01	0.43
51:E:123:VAL:HG12	51:E:134:CYS:SG	2.58	0.43
53:G:61:TYR:OH	76:d:52:ASP:OD2	2.28	0.43
53:G:145:ASP:O	53:G:159:ALA:HA	2.19	0.43
54:H:7:TYR:HD1	54:H:8:PRO:HD2	1.84	0.43
55:I:7:LYS:C	55:I:8:ILE:HD13	2.44	0.43
58:L:22:VAL:HA	58:L:64:TYR:O	2.18	0.43
60:N:61:VAL:HG21	60:N:91:VAL:HG13	2.01	0.43
61:O:3:ARG:NE	61:O:3:ARG:HA	2.31	0.43
62:P:41:ARG:O	62:P:42:VAL:C	2.62	0.43
64:R:98:ASP:OD1	64:R:98:ASP:C	2.62	0.43
65:S:105:GLN:HA	65:S:108:ASP:OD1	2.19	0.43
67:U:118:PRO:HD2	67:U:123:ARG:HH21	1.83	0.43
80:h:50:ASP:HB3	80:h:53:LYS:HD3	2.00	0.43
80:h:150:TRP:HB2	80:h:174:ASN:HB2	1.99	0.43
80:h:151:VAL:O	80:h:172:ALA:O	2.36	0.43
80:h:193:ILE:O	80:h:223:TRP:HH2	2.00	0.43
47:sR:1107:G:O2'	47:sR:1108:G:H5'	2.18	0.43
47:sR:1649:G:H2'	47:sR:1650:U:C6	2.53	0.43
47:sR:1681:A:H2'	47:sR:1682:U:H5'	2.01	0.43
80:Rb:301:LEU:HD12	80:Rb:302:PHE:H	1.83	0.43
49:s1:120:LEU:HD12	49:s1:121:ILE:N	2.33	0.43
52:s4:208:VAL:HG21	52:s4:225:VAL:CG2	2.46	0.43
53:s5:99:MET:HE2	53:s5:99:MET:HB3	1.71	0.43
54:s6:67:VAL:O	54:s6:68:LEU:HD23	2.19	0.43
55:s7:66:SER:O	55:s7:69:GLY:N	2.47	0.43
55:s7:85:PHE:HD1	55:s7:86:GLN:O	2.02	0.43
56:s8:65:PHE:HA	56:s8:181:GLY:O	2.17	0.43
66:c8:51:ASP:HB2	66:c8:68:ARG:NH1	2.33	0.43
66:c8:64:GLU:O	66:c8:68:ARG:HB2	2.18	0.43
73:d5:41:ILE:HD12	73:d5:42:LEU:H	1.84	0.43
74:d6:35:ALA:O	74:d6:37:LYS:HG3	2.19	0.43
1:1:616:G:H2'	1:1:617:G:C8	2.53	0.43
1:1:735:A:H2'	1:1:736:A:C8	2.53	0.43
1:1:790:U:H4'	6:l:112:LYS:O	2.18	0.43
1:1:1662:G:H2'	1:1:1663:C:H6	1.84	0.43
1:1:1709:C:H2'	1:1:1710:C:H6	1.84	0.43
1:1:1916:U:H2'	1:1:1917:C:H6	1.84	0.43
1:1:2403:G:C8	1:1:2870:C:H4'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2766:U:OP2	81:1:3467[A]:OHX:N2	2.52	0.43
1:1:3278:C:O2	1:1:3278:C:H2'	2.18	0.43
1:1:3313:U:O5'	5:k:173:GLN:NE2	2.52	0.43
81:1:4076:OHX:N6	22:2:18:ASP:OD1	2.52	0.43
3:4:59:A:O2'	26:8:61:LYS:NZ	2.51	0.43
5:k:10:ARG:HG2	5:k:11:HIS:N	2.33	0.43
5:k:343:TYR:CE2	5:k:345:ASN:HB2	2.54	0.43
6:l:22:LEU:HA	6:l:23:PRO:HD3	1.78	0.43
13:s:20:ASN:OD1	13:s:20:ASN:C	2.62	0.43
13:s:21:ILE:CD1	13:s:37:LEU:HD23	2.47	0.43
17:w:172:ARG:HA	17:w:175:THR:OG1	2.18	0.43
24:6:109:MET:HE3	24:6:109:MET:HB3	1.70	0.43
25:7:31:PHE:HB3	25:7:36:SER:OG	2.19	0.43
32:AE:78:LYS:O	32:AE:89:LEU:HD22	2.19	0.43
36:AI:49:LYS:HD3	36:AI:49:LYS:HA	1.83	0.43
1:AR:948:C:H2'	1:AR:949:C:C6	2.54	0.43
1:AR:966:U:H2'	1:AR:967:A:C8	2.54	0.43
1:AR:979:U:H1'	1:AR:980:A:N7	2.33	0.43
1:AR:2269:U:H2'	1:AR:2270:A:C8	2.53	0.43
2:AS:49:G:O6	7:CG:58:LYS:HE3	2.18	0.43
4:CD:95:SER:O	4:CD:100:ASN:ND2	2.44	0.43
5:CE:117:ARG:CZ	5:CE:175:LYS:HD3	2.49	0.43
6:CF:205:PRO:HB3	6:CF:247:PHE:CD2	2.53	0.43
7:CG:44:TYR:CD1	7:CG:44:TYR:N	2.86	0.43
7:CG:119:TYR:CE1	7:CG:135:VAL:HG13	2.54	0.43
8:CH:31:ARG:HH12	34:DH:107:ILE:C	2.27	0.43
10:CJ:113:ALA:O	10:CJ:116:VAL:HG12	2.17	0.43
10:CJ:203:VAL:CG1	10:CJ:208:GLU:HG2	2.48	0.43
11:CK:9:GLN:O	11:CK:72:LYS:NZ	2.29	0.43
14:CN:53:LEU:HD23	14:CN:96:ALA:HB2	2.01	0.43
19:CS:42:ALA:HA	19:CS:43:PRO:HD2	1.93	0.43
22:CV:40:VAL:HB	22:CV:96:ILE:HG23	2.01	0.43
27:DA:38:GLU:O	27:DA:42:GLN:HG3	2.18	0.43
27:DA:74:TYR:CE2	27:DA:77:LYS:HE3	2.54	0.43
28:DB:26:VAL:HG21	28:DB:96:VAL:CG1	2.49	0.43
28:DB:46:ILE:CD1	28:DB:68:ILE:HG23	2.44	0.43
28:DB:85:TYR:CE2	28:DB:129:TRP:CD2	3.07	0.43
31:DE:54:SER:OG	35:DI:94:LEU:HD13	2.19	0.43
35:DI:101:VAL:HG23	35:DI:102:LYS:N	2.34	0.43
45:sM:23:LYS:HB2	45:sM:23:LYS:HE2	1.82	0.43
47:A:144:U:O2'	47:A:145:A:H8	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:639:U:H1'	47:A:640:U:C5	2.53	0.43
47:A:933:A:OP1	74:b:70:LYS:NZ	2.50	0.43
47:A:979:A:C4	47:A:980:G:C8	3.07	0.43
47:A:1279:C:P	51:E:185:LYS:NZ	2.91	0.43
47:A:1292:G:H21	48:B:111:ILE:CD1	2.27	0.43
47:A:1409:G:N2	47:A:1411:A:H3'	2.34	0.43
47:A:1415:U:OP1	65:S:45:ARG:NH2	2.43	0.43
47:A:1568:C:H1'	47:A:1569:A:OP2	2.19	0.43
48:B:69:ASN:OD1	50:D:244:SER:OG	2.33	0.43
48:B:74:VAL:O	48:B:121:VAL:HA	2.19	0.43
49:C:207:LEU:O	49:C:210:ILE:HD11	2.18	0.43
50:D:35:TRP:CZ2	50:D:68:ILE:HD12	2.47	0.43
50:D:111:VAL:CG1	50:D:191:ALA:HA	2.49	0.43
51:E:138:VAL:O	51:E:149:ALA:HA	2.18	0.43
51:E:196:ARG:HG2	51:E:196:ARG:O	2.19	0.43
53:G:63:GLN:HE22	53:G:66:GLN:HG3	1.84	0.43
53:G:130:ILE:HA	53:G:133:VAL:HG12	1.99	0.43
55:I:92:PHE:C	55:I:93:LEU:HD23	2.44	0.43
55:I:138:LYS:C	55:I:139:ARG:HG2	2.43	0.43
55:I:164:TYR:CE2	55:I:165:LYS:HG3	2.54	0.43
55:I:184:GLU:HG2	55:I:185:ILE:H	1.84	0.43
56:J:54:LYS:HG3	56:J:175:GLN:O	2.19	0.43
56:J:72:ILE:HG12	56:J:73:SER:N	2.34	0.43
57:K:92:LYS:N	57:K:92:LYS:HD2	2.34	0.43
60:N:68:GLU:C	60:N:70:ASN:H	2.26	0.43
60:N:103:LEU:HD21	60:N:115:VAL:HA	2.00	0.43
63:Q:22:LEU:O	63:Q:24:LYS:N	2.51	0.43
65:S:31:ASN:ND2	65:S:55:THR:HG22	2.20	0.43
66:T:22:VAL:HG13	66:T:31:ALA:HB1	2.00	0.43
67:U:105:LEU:HD23	67:U:105:LEU:C	2.44	0.43
71:Y:95:PHE:N	71:Y:95:PHE:CD1	2.87	0.43
75:c:61:THR:O	75:c:62:ILE:HG12	2.19	0.43
75:c:73:LEU:H	75:c:73:LEU:HG	1.46	0.43
80:h:40:LYS:HA	80:h:68:VAL:HG13	2.01	0.43
47:sR:149:C:OP1	72:d4:121:THR:HG23	2.19	0.43
47:sR:610:G:H2'	47:sR:614:C:C5	2.54	0.43
47:sR:825:U:H2'	47:sR:826:U:C6	2.54	0.43
47:sR:1022:C:H4'	47:sR:1125:A:H61	1.83	0.43
47:sR:1689:A:H2'	47:sR:1690:G:O4'	2.19	0.43
80:Rb:98:GLU:HG2	80:Rb:99:THR:O	2.19	0.43
48:s0:4:PRO:HG3	69:d1:41:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s0:62:ARG:HG2	69:d1:36:VAL:HG13	2.01	0.43
48:s0:144:ILE:CG1	48:s0:158:VAL:HB	2.49	0.43
51:s3:40:ARG:NH2	51:s3:47:GLU:OE2	2.52	0.43
52:s4:128:LYS:HD3	52:s4:130:GLN:OE1	2.19	0.43
54:s6:23:ARG:O	54:s6:26:VAL:HG12	2.18	0.43
56:s8:114:GLU:HA	56:s8:118:GLY:H	1.82	0.43
57:s9:87:SER:HB3	57:s9:90:LYS:CD	2.43	0.43
58:c0:44:LYS:HE2	58:c0:44:LYS:HB3	1.73	0.43
61:c3:46:THR:OG1	61:c3:49:GLN:HG2	2.18	0.43
73:d5:57:TYR:O	73:d5:103:ARG:HB3	2.18	0.43
1:1:242:C:O2'	1:1:243:G:OP2	2.35	0.43
1:1:589:A:H1'	1:1:1337:A:H5''	2.00	0.43
1:1:865:U:C2	1:1:866:A:C8	3.07	0.43
1:1:1095:U:O4'	22:2:129:LYS:HD2	2.18	0.43
1:1:1188:U:OP1	1:1:1210:U:O2'	2.32	0.43
1:1:1225:A:H2'	1:1:1226:G:H8	1.83	0.43
1:1:2105:G:O2'	1:1:2106:A:H5'	2.19	0.43
1:1:2221:G:N2	1:1:2223:A:H3'	2.34	0.43
1:1:2883:U:H2'	1:1:2884:C:H6	1.84	0.43
1:1:2896:A:O3'	41:AN:122:ARG:NH2	2.52	0.43
1:1:3008:A:OP2	17:w:74:ARG:NH1	2.43	0.43
1:1:3018:C:C4	1:1:3019:U:C4	3.07	0.43
1:1:3348:G:H2'	1:1:3349:C:H6	1.83	0.43
1:1:3350:C:O2'	1:1:3351:U:P	2.77	0.43
2:3:7:G:OP1	7:m:33:ARG:HD2	2.18	0.43
5:k:358:TRP:CZ2	5:k:360:ASP:HA	2.54	0.43
8:n:22:ARG:O	8:n:23:LYS:HG2	2.19	0.43
10:p:91:PHE:O	10:p:95:ASN:HB2	2.19	0.43
24:6:26:ALA:O	24:6:115:THR:N	2.36	0.43
26:8:142:ILE:HD13	26:8:142:ILE:HA	1.90	0.43
27:9:79:ALA:HB1	27:9:98:ASN:HB3	2.00	0.43
29:AB:94:ALA:CB	29:AB:121:VAL:HG13	2.49	0.43
32:AE:17:HIS:HB2	32:AE:69:TYR:HB3	2.00	0.43
32:AE:86:LYS:N	32:AE:86:LYS:HD2	2.34	0.43
1:AR:289:A:H5'	16:CP:95:GLN:O	2.19	0.43
1:AR:336:A:OP2	27:DA:9:SER:HB2	2.19	0.43
1:AR:689:U:O4	6:CF:209:TYR:OH	2.33	0.43
1:AR:699:A:OP1	14:CN:68:LYS:HE2	2.19	0.43
1:AR:980:A:H2'	1:AR:981:U:C1'	2.48	0.43
1:AR:1079:A:H4'	7:CG:140:ARG:O	2.18	0.43
1:AR:1094:U:O2	1:AR:1096:U:H2'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1622:U:C2	1:AR:1623:G:C8	3.06	0.43
1:AR:2441:A:C2	1:AR:2507:C:H1'	2.54	0.43
1:AR:2631:U:H4'	1:AR:2697:A:C2	2.54	0.43
1:AR:2947:G:N3	5:CE:250:ALA:HB1	2.33	0.43
2:AS:84:A:H2'	2:AS:85:G:C8	2.53	0.43
5:CE:280:HIS:HB3	5:CE:324:VAL:CG1	2.48	0.43
6:CF:233:LEU:HD23	6:CF:233:LEU:HA	1.51	0.43
11:CK:88:TYR:CZ	11:CK:184:LYS:HD3	2.54	0.43
15:CO:115:PHE:O	15:CO:119:GLN:HG3	2.19	0.43
16:CP:15:GLN:HB3	37:DK:52:PRO:HD3	2.01	0.43
16:CP:143:ARG:NH2	36:DJ:91:ALA:O	2.52	0.43
21:CU:59:VAL:CG1	22:CV:141:VAL:HG21	2.49	0.43
28:DB:26:VAL:HG21	28:DB:96:VAL:HG13	2.00	0.43
28:DB:31:GLU:HG3	28:DB:32:GLY:H	1.84	0.43
29:DC:60:TYR:CD1	29:DC:63:LYS:HB2	2.54	0.43
30:DD:28:LYS:HG3	30:DD:29:TYR:H	1.84	0.43
47:A:452:A:H3'	47:A:453:U:C5	2.54	0.43
47:A:755:A:O2'	47:A:756:A:OP1	2.32	0.43
47:A:912:U:H4'	47:A:913:G:H2'	2.00	0.43
47:A:954:G:H2'	47:A:955:A:H8	1.84	0.43
47:A:1228:G:H5'	60:N:45:LEU:CG	2.42	0.43
47:A:1477:G:OP1	67:U:44:GLU:HB2	2.19	0.43
49:C:26:ARG:NH1	49:C:27:LYS:HG3	2.34	0.43
49:C:57:ALA:HB1	49:C:61:LEU:HD11	2.01	0.43
49:C:223:PHE:HD1	49:C:223:PHE:O	2.02	0.43
50:D:53:ILE:CG2	50:D:72:LEU:HD13	2.45	0.43
53:G:43:PHE:O	53:G:69:PHE:HA	2.19	0.43
53:G:224:ASN:O	53:G:225:ARG:CZ	2.66	0.43
55:I:64:VAL:N	55:I:65:PRO:HD2	2.34	0.43
55:I:77:LEU:O	55:I:78:THR:C	2.62	0.43
62:P:79:VAL:CG2	62:P:80:HIS:N	2.80	0.43
63:Q:57:MET:HA	63:Q:60:LEU:HD13	2.01	0.43
66:T:81:ILE:HG23	66:T:82:PRO:HD2	2.00	0.43
67:U:14:PHE:HD2	67:U:15:ILE:HG13	1.83	0.43
72:Z:29:HIS:N	72:Z:29:HIS:ND1	2.67	0.43
74:b:48:ALA:HB1	76:d:61:ARG:HH12	1.84	0.43
76:d:42:ARG:C	76:d:43:ASN:HD22	2.27	0.43
80:h:42:LEU:O	80:h:61:PHE:HD1	2.00	0.43
47:sR:178:U:OP1	54:s6:191:ARG:NH2	2.51	0.43
47:sR:282:C:H2'	47:sR:283:U:O4'	2.19	0.43
47:sR:301:A:OP2	81:sR:1949:OHX:N1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:830:U:O2'	47:sR:831:U:H5'	2.19	0.43
47:sR:918:U:C2	47:sR:919:A:C8	3.07	0.43
47:sR:1172:G:H2'	47:sR:1173:C:H6	1.83	0.43
47:sR:1620:C:H2'	47:sR:1621:U:H6	1.84	0.43
80:Rb:51:ASP:OD1	80:Rb:51:ASP:N	2.52	0.43
80:Rb:214:ALA:HB1	80:Rb:240:VAL:CG1	2.49	0.43
52:s4:44:LEU:HG	52:s4:82:TYR:HB3	2.01	0.43
57:s9:60:LEU:HD21	57:s9:93:LEU:CB	2.49	0.43
57:s9:127:VAL:O	57:s9:131:GLN:HB2	2.18	0.43
65:c7:79:GLU:O	65:c7:82:ASP:HB3	2.19	0.43
71:d3:63:GLN:OE1	71:d3:64:PRO:HA	2.19	0.43
1:1:7:C:H2'	1:1:8:C:C6	2.54	0.42
1:1:137:G:H2'	1:1:138:U:C6	2.54	0.42
1:1:150:A:C4	1:1:151:A:C8	3.07	0.42
1:1:650:C:H2'	1:1:651:G:C8	2.54	0.42
1:1:1013:G:C2'	1:1:1014:U:H5'	2.49	0.42
1:1:1119:C:H2'	1:1:1120:A:H8	1.84	0.42
1:1:1129:A:N6	12:r:115:MET:HE1	2.33	0.42
1:1:1687:U:O2	23:5:70:LYS:NZ	2.50	0.42
1:1:1696:A:H2'	1:1:1697:A:C8	2.54	0.42
1:1:2526:C:H2'	1:1:2527:G:H8	1.84	0.42
1:1:2887:A:H2'	1:1:2887:A:N3	2.34	0.42
1:1:3330:A:H4'	5:k:365:PHE:O	2.19	0.42
1:1:3366:G:H2'	1:1:3367:C:C6	2.54	0.42
6:l:19:ALA:C	6:l:20:LEU:HD23	2.44	0.42
9:o:38:LYS:HD3	9:o:38:LYS:C	2.44	0.42
11:q:3:TYR:HA	21:0:142:GLN:HE22	1.83	0.42
14:t:180:ARG:HD2	37:AJ:11:LEU:HD11	2.00	0.42
15:u:92:GLU:H	15:u:92:GLU:CD	2.21	0.42
20:z:13:SER:OG	20:z:38:ARG:NH2	2.50	0.42
21:0:74:ASN:HD21	21:0:144:LEU:HD21	1.83	0.42
28:AA:35:SER:O	28:AA:37:PRO:HD3	2.19	0.42
29:AB:84:GLU:HA	29:AB:87:ARG:HB2	2.00	0.42
35:AH:29:ILE:HD11	35:AH:31:ARG:NH2	2.35	0.42
44:AQ:82:THR:O	44:AQ:86:LEU:HD12	2.19	0.42
1:AR:608:A:OP1	6:CF:315:LYS:NZ	2.45	0.42
1:AR:811:U:H2'	1:AR:812:G:C8	2.53	0.42
1:AR:1157:G:H2'	1:AR:1158:A:O4'	2.19	0.42
1:AR:1238:C:H2'	1:AR:1239:C:C6	2.54	0.42
1:AR:1243:G:H8	1:AR:1243:G:OP2	2.00	0.42
1:AR:1536:G:O6	81:AR:3423:OHX:N6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1583:A:H3'	1:AR:1584:U:H6	1.85	0.42
1:AR:2262:A:O3'	47:sR:1780:G:H1'	2.18	0.42
1:AR:3095:U:H2'	1:AR:3096:C:H6	1.83	0.42
1:AR:3213:A:N7	15:CO:124:ARG:NH2	2.67	0.42
3:AT:53:A:O2'	40:DN:40:LYS:HE3	2.19	0.42
11:CK:112:ILE:HG13	11:CK:128:VAL:CG2	2.49	0.42
18:CR:26:PHE:CE1	18:CR:121:GLN:HG2	2.54	0.42
24:CX:10:LYS:HE3	24:CX:13:ILE:CG2	2.48	0.42
35:DI:83:ASN:N	35:DI:83:ASN:OD1	2.51	0.42
44:DR:25:GLN:HE21	47:sR:983:A:H4'	1.84	0.42
47:A:477:A:OP1	78:f:30:PRO:HA	2.18	0.42
47:A:895:G:O2'	62:P:38:THR:N	2.44	0.42
47:A:1050:G:H8	47:A:1050:G:O5'	2.02	0.42
47:A:1061:A:H3'	47:A:1062:A:H2	1.85	0.42
47:A:1196:A:C8	47:A:1602:C:H4'	2.54	0.42
47:A:1385:G:N7	81:A:1965:OHX:N5	2.67	0.42
49:C:61:LEU:N	49:C:61:LEU:HD22	2.34	0.42
51:E:28:GLU:O	51:E:29:LEU:HD23	2.20	0.42
51:E:108:LYS:HE2	51:E:113:LEU:HD12	2.01	0.42
52:F:59:ARG:NH2	72:Z:87:PRO:HG3	2.34	0.42
52:F:179:LYS:O	52:F:195:ILE:HG13	2.19	0.42
54:H:63:MET:HA	54:H:98:ARG:O	2.19	0.42
56:J:96:LEU:HD13	56:J:179:CYS:SG	2.58	0.42
57:K:142:ASN:OD1	57:K:142:ASN:N	2.52	0.42
58:L:25:LYS:HB2	58:L:64:TYR:CE1	2.54	0.42
63:Q:126:VAL:HG13	63:Q:127:ARG:N	2.34	0.42
65:S:69:ILE:HG13	65:S:74:GLN:HE21	1.83	0.42
65:S:78:ARG:H	65:S:78:ARG:HD3	1.84	0.42
74:b:22:ARG:HD2	74:b:29:SER:HB2	2.00	0.42
78:f:48:THR:O	78:f:49:LEU:HD22	2.19	0.42
47:sR:121:U:H1'	52:s4:33:ALA:O	2.18	0.42
47:sR:141:U:OP2	54:s6:149:LYS:HE2	2.18	0.42
47:sR:412:A:H2	47:sR:421:A:H61	1.66	0.42
47:sR:427:C:O2'	47:sR:459:G:N3	2.49	0.42
47:sR:454:U:C4	52:s4:66:MET:HB3	2.54	0.42
47:sR:813:U:O2	47:sR:813:U:H2'	2.19	0.42
47:sR:880:C:OP1	61:c3:107:LYS:HD3	2.19	0.42
47:sR:1097:U:H5	50:s2:199:GLN:CD	2.27	0.42
47:sR:1550:A:H2'	47:sR:1551:U:C6	2.54	0.42
47:sR:1555:A:P	63:c5:47:ARG:NH2	2.92	0.42
47:sR:1579:U:O2'	64:c6:139:GLN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1681:A:H8	54:s6:65:GLN:HG3	1.83	0.42
80:Rb:20:VAL:O	80:Rb:20:VAL:HG23	2.19	0.42
80:Rb:129:LYS:HD2	80:Rb:149:ASP:O	2.18	0.42
48:s0:84:ARG:CZ	48:s0:88:LYS:HZ3	2.33	0.42
48:s0:182:LEU:HD23	48:s0:182:LEU:HA	1.73	0.42
49:s1:197:ILE:HD13	49:s1:197:ILE:HG21	1.78	0.42
50:s2:53:ILE:HG12	50:s2:73:LEU:HG	2.01	0.42
56:s8:25:ARG:HD3	56:s8:27:PHE:CZ	2.53	0.42
58:c0:32:HIS:CE1	58:c0:34:GLU:H	2.36	0.42
63:c5:87:PRO:HA	63:c5:90:ILE:HG13	2.00	0.42
67:c9:135:ILE:HA	67:c9:138:GLN:HE22	1.84	0.42
69:d1:1:MET:HG2	69:d1:9:VAL:HG23	2.00	0.42
1:1:114:A:H2'	1:1:115:A:O4'	2.19	0.42
1:1:552:G:H2'	1:1:553:U:C6	2.54	0.42
1:1:616:G:H2'	1:1:617:G:H8	1.82	0.42
1:1:1105:A:H2'	1:1:1106:G:O4'	2.19	0.42
1:1:1228:C:H2'	1:1:1229:G:H8	1.85	0.42
1:1:1631:C:OP2	28:AA:48:ARG:NH2	2.52	0.42
1:1:1664:G:H2'	1:1:1665:C:C6	2.53	0.42
1:1:1764:U:H3'	1:1:1765:U:H4'	2.01	0.42
1:1:2505:U:C2	1:1:2506:U:C5	3.07	0.42
1:1:2555:G:O4'	35:AH:91:ARG:HD2	2.19	0.42
1:1:3204:C:H2'	1:1:3205:G:C8	2.54	0.42
1:1:3259:U:H5'	1:1:3259:U:H6	1.83	0.42
1:1:3348:G:H2'	1:1:3349:C:C6	2.54	0.42
1:1:3375:A:H4'	1:1:3376:A:OP1	2.19	0.42
2:3:110:G:P	7:m:279:LYS:HE2	2.60	0.42
4:j:131:GLY:H	4:j:169:ILE:HG22	1.83	0.42
7:m:236:LEU:O	7:m:239:ILE:N	2.52	0.42
9:o:43:ILE:O	9:o:46:GLU:HG3	2.18	0.42
9:o:180:SER:H	9:o:183:ASP:HB2	1.83	0.42
9:o:232:ARG:HB2	9:o:235:PHE:HB2	2.01	0.42
9:o:233:GLU:OE1	21:0:38:LYS:NZ	2.52	0.42
10:p:78:PHE:N	10:p:78:PHE:CD1	2.87	0.42
12:r:185:ARG:HG3	12:r:186:GLU:N	2.33	0.42
17:w:159:LYS:O	17:w:162:VAL:HG22	2.19	0.42
1:AR:68:C:O3'	16:CP:177:GLY:HA2	2.18	0.42
1:AR:239:G:O2'	1:AR:240:U:OP1	2.34	0.42
1:AR:594:U:H2'	1:AR:609:G:O6	2.18	0.42
1:AR:1112:A:OP1	14:CN:5:LYS:NZ	2.41	0.42
1:AR:1744:G:H2'	1:AR:1745:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2508:U:H2'	1:AR:2509:U:H6	1.84	0.42
1:AR:2574:G:H2'	1:AR:2575:G:H8	1.84	0.42
1:AR:3166:C:H2'	1:AR:3167:A:H8	1.85	0.42
81:AR:3667:OHX:N3	81:DK:201:OHX:N5	2.66	0.42
3:AT:2:A:C4	3:AT:3:A:C8	3.07	0.42
5:CE:94:GLU:HB3	17:CQ:152:VAL:HG21	2.01	0.42
5:CE:107:ALA:HA	5:CE:199:PHE:CD2	2.53	0.42
6:CF:135:VAL:HA	6:CF:245:GLY:O	2.20	0.42
6:CF:264:SER:OG	6:CF:267:VAL:HG12	2.19	0.42
6:CF:302:ALA:CB	19:CS:39:ARG:HH12	2.25	0.42
7:CG:58:LYS:CD	7:CG:93:THR:HG21	2.46	0.42
10:CJ:242:ALA:O	10:CJ:245:LYS:HB3	2.18	0.42
11:CK:21:LYS:O	11:CK:24:ILE:N	2.45	0.42
22:CV:7:TYR:OH	22:CV:54:HIS:HB2	2.20	0.42
33:DG:91:THR:OG1	33:DG:92:TYR:HD1	2.02	0.42
47:A:123:G:H21	52:F:146:THR:HG21	1.84	0.42
47:A:140:A:H62	47:A:280:U:H3'	1.85	0.42
47:A:333:A:H2'	47:A:334:G:C8	2.55	0.42
47:A:610:G:OP2	59:M:96:LYS:NZ	2.42	0.42
47:A:706:A:H61	47:A:734:A:H61	1.67	0.42
47:A:836:U:C2	47:A:837:G:N7	2.87	0.42
47:A:1046:G:OP1	49:C:157:GLN:NE2	2.48	0.42
47:A:1139:A:OP2	81:A:2119:OHX:N3	2.52	0.42
47:A:1170:G:C2	47:A:1171:A:C8	3.07	0.42
47:A:1410:A:H2'	47:A:1411:A:O4'	2.19	0.42
47:A:1429:G:N2	68:V:72:ASN:HD21	2.17	0.42
47:A:1489:U:H6	47:A:1492:A:H2	1.67	0.42
47:A:1651:A:H2'	47:A:1652:C:H6	1.83	0.42
47:A:1795:U:H4'	74:b:84:VAL:CG2	2.44	0.42
48:B:38:PHE:O	48:B:39:ASN:C	2.61	0.42
49:C:145:LYS:H	49:C:145:LYS:HG2	1.67	0.42
52:F:75:LYS:HD3	52:F:77:ARG:CZ	2.49	0.42
54:H:70:PRO:HB3	54:H:101:ILE:HG22	2.01	0.42
54:H:193:LEU:O	54:H:196:ARG:HG3	2.19	0.42
59:M:26:LYS:H	59:M:26:LYS:HG3	1.41	0.42
65:S:46:LEU:O	65:S:50:ILE:HG13	2.18	0.42
80:h:20:VAL:CG2	80:h:304:GLY:HA3	2.49	0.42
80:h:249:ARG:HH21	80:h:315:VAL:CG1	2.32	0.42
47:sR:845:G:H2'	47:sR:846:G:H8	1.84	0.42
47:sR:872:G:N2	47:sR:1047:G:H4'	2.34	0.42
80:Rb:8:VAL:HG12	80:Rb:9:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:Rb:31:ASN:C	80:Rb:47:LEU:HG	2.45	0.42
80:Rb:124:SER:CB	80:Rb:134:TRP:HE1	2.31	0.42
80:Rb:176:LYS:O	80:Rb:195:HIS:HB2	2.19	0.42
50:s2:241:ASP:OD1	50:s2:241:ASP:N	2.53	0.42
51:s3:189:MET:HG3	51:s3:190:ARG:O	2.19	0.42
54:s6:64:LYS:HD2	54:s6:97:VAL:HG11	2.02	0.42
55:s7:9:LEU:HD13	55:s7:18:LEU:HG	2.01	0.42
55:s7:95:GLU:OE1	55:s7:97:ARG:NH1	2.53	0.42
63:c5:29:SER:OG	63:c5:31:GLU:OE1	2.37	0.42
64:c6:60:PHE:CZ	64:c6:89:LEU:HD22	2.53	0.42
65:c7:57:LEU:O	65:c7:61:ILE:HG22	2.19	0.42
66:c8:100:THR:OG1	66:c8:105:VAL:HA	2.20	0.42
69:d1:33:GLN:NE2	69:d1:52:THR:HG21	2.31	0.42
78:e0:47:VAL:C	78:e0:48:THR:HG23	2.44	0.42
1:1:26:A:C4	1:1:330:G:C8	3.07	0.42
1:1:279:U:H2'	1:1:280:U:H6	1.84	0.42
1:1:499:G:H2'	1:1:500:C:H6	1.84	0.42
1:1:665:A:OP1	16:v:203:ARG:HD2	2.19	0.42
1:1:705:A:H4'	1:1:706:A:OP1	2.20	0.42
1:1:1090:G:H2'	1:1:1091:A:H8	1.84	0.42
1:1:1169:A:H2'	1:1:1170:A:C8	2.53	0.42
1:1:1272:C:H3'	1:1:1273:A:H8	1.84	0.42
1:1:1715:A:H1'	1:1:1716:U:H3'	2.01	0.42
1:1:1811:G:H2'	1:1:1812:G:O4'	2.19	0.42
1:1:1879:A:H4'	1:1:1880:U:OP2	2.18	0.42
1:1:2103:U:OP2	20:z:81:ARG:NH1	2.52	0.42
3:4:127:U:C2'	3:4:128:U:H5'	2.49	0.42
3:4:152:G:OP2	10:p:60:ARG:HD3	2.19	0.42
4:j:30:ARG:NH2	4:j:33:ASP:OD1	2.52	0.42
5:k:380:MET:HE3	5:k:383:LEU:HD11	2.01	0.42
7:m:289:LYS:HD2	12:r:206:LEU:HD23	2.02	0.42
23:5:25:ASN:OD1	23:5:25:ASN:N	2.51	0.42
23:5:35:LYS:NZ	23:5:35:LYS:O	2.44	0.42
28:AA:68:ILE:O	28:AA:115:LYS:HE3	2.19	0.42
35:AH:31:ARG:HG2	35:AH:32:ALA:O	2.20	0.42
39:AL:25:VAL:HG12	39:AL:77:ARG:HA	2.01	0.42
45:i:74:LYS:HE2	63:Q:130:ARG:H	1.84	0.42
1:AR:18:G:OP2	26:CZ:46:TYR:OH	2.35	0.42
1:AR:266:A:OP1	16:CP:5:LYS:NZ	2.53	0.42
1:AR:541:U:H2'	1:AR:542:G:C8	2.54	0.42
1:AR:781:G:N7	81:AR:3492:OHX:N6	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1010:G:H1'	12:CL:195:ALA:HB2	2.00	0.42
1:AR:1221:A:C8	46:p0:61:ARG:HG2	2.54	0.42
1:AR:1440:G:O6	81:AR:3464:OHX:N1	2.52	0.42
1:AR:1564:U:H2'	1:AR:1565:G:O4'	2.20	0.42
1:AR:1590:G:OP1	35:DI:17:SER:HB3	2.19	0.42
1:AR:1789:G:O6	81:AR:3671:OHX:N4	2.52	0.42
1:AR:2200:U:H2'	1:AR:2201:G:O4'	2.19	0.42
1:AR:2255:A:C2	47:sR:1758:U:H1'	2.54	0.42
1:AR:2581:U:H2'	1:AR:2582:C:C6	2.51	0.42
1:AR:2951:G:O3'	81:AR:3588:OHX:N2	2.51	0.42
2:AS:36:C:H4'	7:CG:155:THR:HG23	2.00	0.42
4:CD:79:ASN:ND2	4:CD:165:VAL:HG12	2.34	0.42
4:CD:133:TYR:CD2	4:CD:168:VAL:HG12	2.55	0.42
8:CH:43:LEU:HD11	8:CH:85:ILE:HG13	2.01	0.42
10:CJ:101:THR:OG1	10:CJ:104:GLU:HG3	2.20	0.42
10:CJ:150:LEU:HD12	10:CJ:176:PRO:HB2	2.00	0.42
12:CL:48:LEU:HD11	12:CL:145:LYS:HE3	2.01	0.42
13:CM:46:VAL:HG23	45:sM:25:ILE:HG22	2.02	0.42
19:CS:115:VAL:HA	19:CS:119:GLY:H	1.84	0.42
23:CW:52:ASN:OD1	23:CW:52:ASN:C	2.62	0.42
29:DC:85:ASP:OD1	29:DC:86:LYS:N	2.52	0.42
44:DR:87:ARG:O	44:DR:90:VAL:HG22	2.19	0.42
46:p0:56:ASN:ND2	46:p0:82:GLY:O	2.47	0.42
47:A:249:U:H3'	47:A:250:C:H5'	2.02	0.42
47:A:354:C:OP1	56:J:14:THR:OG1	2.30	0.42
47:A:424:C:O2'	47:A:426:G:OP1	2.33	0.42
47:A:603:U:H2'	47:A:604:A:H8	1.83	0.42
47:A:793:A:H5''	47:A:794:U:H5'	2.02	0.42
47:A:1132:A:H2'	47:A:1133:A:C8	2.54	0.42
47:A:1389:C:H6	65:S:28:PHE:CE2	2.38	0.42
47:A:1584:G:N2	47:A:1611:A:OP2	2.41	0.42
50:D:72:LEU:HG	50:D:72:LEU:H	1.62	0.42
51:E:12:VAL:O	51:E:16:VAL:HG23	2.19	0.42
52:F:147:ILE:HD13	52:F:169:ILE:CG2	2.50	0.42
57:K:83:VAL:HG13	57:K:85:VAL:HG12	2.00	0.42
60:N:85:LYS:HE2	60:N:85:LYS:HB2	1.78	0.42
61:O:66:ILE:HD12	61:O:66:ILE:H	1.83	0.42
63:Q:97:TYR:HD1	63:Q:99:GLY:H	1.68	0.42
64:R:20:ALA:HB2	64:R:67:VAL:HG13	2.01	0.42
66:T:17:LEU:HD12	66:T:18:LEU:HD23	2.01	0.42
70:X:10:ALA:HB1	70:X:27:ILE:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:Y:19:ARG:O	71:Y:23:ARG:HG3	2.19	0.42
71:Y:133:LEU:HD23	71:Y:134:ALA:N	2.34	0.42
72:Z:129:VAL:CG1	72:Z:132:ARG:HH12	2.30	0.42
74:b:79:ILE:CA	74:b:84:VAL:HG11	2.46	0.42
80:h:76:ASP:OD1	80:h:77:GLY:N	2.52	0.42
47:sR:1228:G:O2'	47:sR:1229:G:OP1	2.36	0.42
47:sR:1345:A:H2'	47:sR:1348:A:N6	2.34	0.42
80:Rb:195:HIS:CD2	80:Rb:221:MET:SD	3.12	0.42
56:s8:152:ILE:HD11	56:s8:157:GLU:HB2	1.99	0.42
62:c4:18:ARG:HH11	62:c4:18:ARG:HG3	1.84	0.42
62:c4:41:ARG:HE	62:c4:41:ARG:HB3	1.49	0.42
62:c4:84:ARG:HG2	62:c4:85:ALA:O	2.19	0.42
63:c5:125:PRO:HG3	66:c8:129:TRP:CH2	2.55	0.42
67:c9:104:VAL:O	67:c9:108:LEU:HB2	2.19	0.42
77:d9:20:GLN:HB2	77:d9:25:SER:O	2.18	0.42
1:1:414:U:H2'	1:1:415:G:C8	2.55	0.42
1:1:658:G:OP1	81:1:4068:OHX:N4	2.52	0.42
1:1:670:C:OP1	19:y:147:ARG:NH1	2.46	0.42
1:1:671:U:P	19:y:57:ILE:HD13	2.59	0.42
1:1:945:C:H2'	1:1:946:U:C6	2.54	0.42
1:1:1213:G:OP1	21:0:137:ARG:HD2	2.18	0.42
1:1:1556:C:H5''	1:1:2169:G:H22	1.84	0.42
1:1:2354:C:H2'	1:1:2355:G:O4'	2.18	0.42
1:1:2555:G:C5	1:1:2556:C:C5	3.07	0.42
1:1:2737:C:OP1	22:2:70:SER:OG	2.26	0.42
1:1:2766:U:H2'	1:1:2767:U:C6	2.55	0.42
5:k:361:THR:CG2	5:k:371:GLN:HG3	2.50	0.42
6:l:258:LEU:HD23	6:l:258:LEU:HA	1.83	0.42
6:l:361:HIS:CG	6:l:362:ASP:N	2.88	0.42
7:m:257:GLU:O	7:m:259:LYS:HB2	2.20	0.42
8:n:174:LEU:HD23	8:n:174:LEU:HA	1.86	0.42
10:p:100:GLU:OE2	10:p:108:ARG:HD3	2.19	0.42
13:s:15:GLU:HB2	13:s:132:ASN:CG	2.45	0.42
13:s:60:ARG:N	13:s:63:GLU:OE1	2.53	0.42
19:y:120:GLU:CD	19:y:130:ARG:HH22	2.26	0.42
22:2:52:MET:HB3	22:2:95:HIS:CE1	2.54	0.42
24:6:23:MET:HE3	24:6:100:GLY:HA3	2.01	0.42
28:AA:104:PRO:CA	28:AA:107:ARG:HB2	2.42	0.42
31:AD:48:THR:HG23	31:AD:49:PRO:HD2	2.00	0.42
34:AG:103:TYR:HA	34:AG:104:PRO:C	2.45	0.42
36:AI:87:ALA:O	36:AI:90:ARG:O	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:i:61:ILE:HG21	66:T:120:ARG:NE	2.35	0.42
1:AR:170:G:H5''	36:DJ:109:ILE:HG12	2.01	0.42
1:AR:286:U:H2'	1:AR:287:G:C8	2.55	0.42
1:AR:342:A:O2'	81:AR:3425:OHX:N1	2.52	0.42
1:AR:412:G:H2'	1:AR:413:U:H6	1.84	0.42
1:AR:503:C:C2	1:AR:504:A:C8	3.07	0.42
1:AR:663:C:H2'	1:AR:664:U:H6	1.84	0.42
1:AR:673:U:H2'	1:AR:674:G:H8	1.85	0.42
1:AR:676:G:H3'	19:CS:107:THR:HG21	2.02	0.42
1:AR:999:G:O2'	1:AR:1000:C:H5'	2.20	0.42
1:AR:1229:G:H2'	1:AR:1230:G:H8	1.84	0.42
1:AR:1504:A:C5	1:AR:1505:C:C5	3.07	0.42
1:AR:3156:U:H4'	1:AR:3157:U:OP2	2.19	0.42
1:AR:3243:A:C8	17:CQ:156:LEU:HD13	2.54	0.42
1:AR:3257:C:H2'	1:AR:3258:U:O4'	2.19	0.42
3:AT:79:A:H3'	3:AT:80:A:C4'	2.49	0.42
3:AT:92:A:H2'	3:AT:93:U:O4'	2.20	0.42
10:CJ:249:ARG:N	10:CJ:249:ARG:HD2	2.35	0.42
12:CL:187:ALA:HB3	12:CL:189:GLU:HG3	2.02	0.42
14:CN:48:PRO:HA	14:CN:137:GLN:HB2	2.02	0.42
14:CN:76:THR:O	14:CN:80:VAL:HG13	2.19	0.42
23:CW:37:LEU:O	23:CW:38:ILE:C	2.62	0.42
28:DB:92:PHE:HA	28:DB:95:VAL:HG23	2.01	0.42
35:DI:74:ARG:NH1	35:DI:82:ALA:HB2	2.34	0.42
36:DJ:38:ARG:HE	36:DJ:38:ARG:HB3	1.59	0.42
41:DO:82:LEU:HD23	41:DO:82:LEU:HA	1.80	0.42
46:p0:10:GLU:O	46:p0:14:LYS:HE2	2.20	0.42
45:sM:68:ARG:HH11	45:sM:69:ARG:HB2	1.84	0.42
47:A:594:A:P	57:K:38:ASN:HD21	2.43	0.42
47:A:629:U:C2	47:A:630:A:C8	3.07	0.42
47:A:993:A:H2'	47:A:994:G:O4'	2.19	0.42
47:A:1294:G:H4'	48:B:109:ASN:N	2.35	0.42
47:A:1301:U:OP1	50:D:88:LYS:HB2	2.20	0.42
47:A:1547:A:H1'	66:T:87:ASN:O	2.20	0.42
48:B:77:SER:HB2	48:B:124:THR:HG21	2.02	0.42
48:B:77:SER:O	48:B:83:GLN:HG2	2.20	0.42
49:C:138:PHE:CD2	49:C:214:LYS:HB2	2.54	0.42
49:C:158:SER:O	49:C:162:ARG:HG3	2.19	0.42
52:F:43:PRO:HD2	52:F:46:VAL:HG21	2.01	0.42
52:F:181:VAL:O	52:F:192:ILE:HG23	2.19	0.42
53:G:116:HIS:O	53:G:119:ASP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:H:69:LEU:C	54:H:71:THR:N	2.78	0.42
56:J:39:GLY:HA2	56:J:61:GLU:HB3	2.02	0.42
57:K:89:ASP:OD1	57:K:89:ASP:N	2.52	0.42
59:M:110:HIS:O	59:M:139:VAL:HG23	2.19	0.42
62:P:15:GLY:O	62:P:16:VAL:HG13	2.20	0.42
63:Q:119:PHE:HE1	66:T:121:ALA:HB2	1.84	0.42
67:U:89:ARG:HH11	67:U:89:ARG:HG3	1.84	0.42
71:Y:96:VAL:O	71:Y:100:ASP:HB2	2.19	0.42
75:c:33:LEU:HD13	75:c:35:VAL:HG22	2.02	0.42
78:f:24:THR:O	78:f:26:LYS:HG3	2.19	0.42
80:h:22:SER:O	80:h:35:SER:O	2.37	0.42
47:sR:207:U:O2	56:s8:178:ARG:NH2	2.38	0.42
47:sR:328:A:H2'	47:sR:329:G:H8	1.84	0.42
47:sR:446:A:C6	47:sR:447:U:C4	3.08	0.42
47:sR:1280:C:H2'	47:sR:1281:G:C8	2.53	0.42
80:Rb:183:LEU:HA	80:Rb:186:PHE:HD1	1.84	0.42
49:s1:198:GLU:O	49:s1:202:LYS:HG2	2.19	0.42
49:s1:214:LYS:HG3	49:s1:215:VAL:N	2.35	0.42
50:s2:133:LYS:HA	50:s2:136:VAL:HG23	2.01	0.42
53:s5:37:GLN:HG2	53:s5:41:LYS:HD2	2.01	0.42
53:s5:117:THR:HG21	53:s5:194:LEU:CD2	2.45	0.42
53:s5:117:THR:HG22	53:s5:191:ALA:HA	2.00	0.42
53:s5:158:GLN:HG3	53:s5:225:ARG:HA	1.99	0.42
61:c3:72:MET:CE	61:c3:82:PRO:HD2	2.43	0.42
65:c7:57:LEU:O	65:c7:60:ARG:HG3	2.19	0.42
70:d2:113:HIS:CD2	70:d2:117:ARG:HH21	2.37	0.42
71:d3:130:VAL:O	71:d3:130:VAL:CG1	2.68	0.42
76:d8:27:GLN:HE22	76:d8:65:ARG:HD3	1.84	0.42
1:1:197:G:H2'	1:1:198:A:C8	2.53	0.42
1:1:380:U:H2'	1:1:381:U:C6	2.55	0.42
1:1:863:C:H2'	1:1:864:G:O4'	2.19	0.42
1:1:1662:G:H2'	1:1:1663:C:C6	2.54	0.42
1:1:2317:A:OP2	81:1:3554:OHX:N2	2.53	0.42
1:1:2405:C:O2	1:1:2819:A:N1	2.51	0.42
1:1:2897:A:OP2	41:AN:124:LYS:NZ	2.52	0.42
3:4:57:C:H4'	3:4:63:G:N7	2.33	0.42
4:j:3:ARG:HB2	4:j:207:VAL:HG22	2.00	0.42
6:l:299:ILE:HD13	19:y:35:PHE:CZ	2.55	0.42
7:m:278:SER:O	7:m:281:GLU:HB2	2.20	0.42
9:o:138:TYR:CE2	9:o:233:GLU:HB3	2.55	0.42
12:r:72:ALA:O	12:r:76:MET:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:192:GLU:O	14:t:194:GLU:N	2.52	0.42
19:y:94:PHE:CE1	29:AB:119:PRO:HD3	2.55	0.42
21:0:104:GLU:O	21:0:108:GLN:HG2	2.18	0.42
21:0:139:TYR:CD1	21:0:140:VAL:HG23	2.55	0.42
29:AB:90:TYR:CG	29:AB:100:PRO:HG3	2.54	0.42
31:AD:34:LEU:HD11	31:AD:42:ILE:HD13	2.00	0.42
32:AE:42:LEU:HD12	32:AE:42:LEU:O	2.20	0.42
35:AH:47:CYS:HB3	35:AH:84:CYS:SG	2.60	0.42
45:i:58:GLU:HG3	66:T:120:ARG:NH1	2.33	0.42
45:i:64:LYS:HD2	45:i:64:LYS:HA	1.67	0.42
1:AR:265:A:O3'	16:CP:5:LYS:NZ	2.52	0.42
1:AR:673:U:H2'	1:AR:674:G:C8	2.54	0.42
1:AR:887:G:H2'	1:AR:888:A:C8	2.54	0.42
1:AR:908:G:H3'	16:CP:81:TYR:OH	2.20	0.42
1:AR:985:U:H2'	1:AR:986:U:H6	1.84	0.42
1:AR:1073:U:O2'	30:DD:49:GLY:HA3	2.20	0.42
1:AR:1495:U:H5	1:AR:1835:A:N1	2.16	0.42
1:AR:2152:A:O2'	1:AR:2243:A:O2'	2.26	0.42
1:AR:2217:U:H2'	1:AR:2218:G:C8	2.54	0.42
1:AR:2258:U:H2'	1:AR:2259:A:O4'	2.19	0.42
1:AR:2814:G:OP1	6:CF:73:ARG:NH2	2.53	0.42
1:AR:2947:G:H2'	1:AR:2948:C:C6	2.55	0.42
3:AT:64:U:C5'	36:DJ:49:LYS:HD2	2.48	0.42
12:CL:156:ARG:HG3	12:CL:163:GLN:HG2	2.01	0.42
13:CM:37:LEU:HD23	13:CM:37:LEU:HA	1.80	0.42
15:CO:118:PHE:O	15:CO:121:MET:HB3	2.20	0.42
19:CS:125:ASP:O	19:CS:128:ALA:HB3	2.18	0.42
22:CV:9:SER:OG	22:CV:10:ARG:HG3	2.19	0.42
28:DB:33:SER:HB3	28:DB:40:HIS:CE1	2.54	0.42
40:DN:14:ALA:O	40:DN:18:LYS:HG3	2.19	0.42
47:A:93:A:C6	47:A:398:G:C6	3.08	0.42
47:A:222:A:N6	47:A:840:U:O4	2.52	0.42
47:A:482:U:C2	47:A:483:A:N7	2.87	0.42
47:A:599:A:H2'	47:A:600:U:H6	1.82	0.42
47:A:784:C:H2'	47:A:785:U:O4'	2.19	0.42
47:A:811:A:N3	47:A:858:G:H1'	2.33	0.42
47:A:889:U:H2'	47:A:890:C:O4'	2.20	0.42
47:A:915:A:H5''	47:A:916:U:C5	2.52	0.42
47:A:1133:A:N3	47:A:1650:U:O2'	2.47	0.42
47:A:1785:U:P	62:P:133:ARG:HH22	2.42	0.42
48:B:185:ARG:N	69:W:45:ALA:H	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D:143:TYR:OH	50:D:149:GLY:HA2	2.19	0.42
50:D:206:THR:O	50:D:210:THR:HG22	2.19	0.42
50:D:227:PRO:HA	50:D:230:TRP:CD2	2.55	0.42
51:E:37:VAL:O	51:E:38:GLU:HG2	2.20	0.42
55:I:77:LEU:HD13	55:I:81:LEU:HD11	2.02	0.42
57:K:26:ALA:O	57:K:30:LEU:HD12	2.19	0.42
59:M:59:PRO:HG2	59:M:60:PHE:CE1	2.54	0.42
63:Q:12:PHE:CD1	63:Q:13:LYS:N	2.87	0.42
63:Q:49:MET:HE3	63:Q:49:MET:HB2	1.92	0.42
70:X:83:ILE:HD12	70:X:122:SER:HB2	2.00	0.42
70:X:101:TYR:HB3	70:X:112:ASP:HB2	2.01	0.42
78:f:55:ARG:HD2	78:f:58:PRO:HB3	2.01	0.42
47:sR:654:C:H2'	47:sR:655:G:C8	2.45	0.42
47:sR:792:U:C4	47:sR:793:A:N6	2.88	0.42
47:sR:829:A:H61	47:sR:844:A:N6	2.17	0.42
47:sR:1220:C:H5'	58:c0:52:LYS:CE	2.50	0.42
47:sR:1311:U:OP2	81:sR:2014:OHX:N1	2.52	0.42
47:sR:1327:C:C2	47:sR:1328:G:C8	3.08	0.42
47:sR:1642:G:N3	47:sR:1781:A:O2'	2.50	0.42
47:sR:1735:U:H2'	47:sR:1736:G:O4'	2.19	0.42
80:Rb:38:ARG:HG2	80:Rb:67:ILE:HG21	2.02	0.42
80:Rb:201:THR:CB	80:Rb:242:SER:HA	2.49	0.42
48:s0:84:ARG:NH1	48:s0:201:LEU:C	2.77	0.42
50:s2:125:ILE:O	50:s2:129:ILE:HD12	2.19	0.42
50:s2:162:CYS:O	50:s2:209:ASN:ND2	2.52	0.42
52:s4:47:PHE:CE2	52:s4:52:LEU:HD11	2.54	0.42
52:s4:181:VAL:O	52:s4:192:ILE:HA	2.20	0.42
52:s4:213:SER:C	52:s4:214:LEU:HD23	2.45	0.42
53:s5:40:ILE:HG12	53:s5:42:LEU:CG	2.49	0.42
53:s5:130:ILE:HD12	53:s5:131:GLN:H	1.84	0.42
53:s5:206:SER:HA	53:s5:211:ILE:HD11	2.00	0.42
56:s8:83:TYR:HB3	56:s8:101:ILE:HB	2.01	0.42
57:s9:59:LEU:HD22	57:s9:69:ARG:HA	2.01	0.42
58:c0:46:LEU:O	58:c0:50:THR:HG22	2.20	0.42
59:c1:14:GLN:HB3	59:c1:54:ILE:HG13	2.01	0.42
61:c3:88:LEU:O	61:c3:92:ILE:HG12	2.18	0.42
62:c4:78:ALA:HB2	62:c4:111:ARG:HB2	2.01	0.42
63:c5:67:ALA:HB2	63:c5:73:PRO:HA	2.01	0.42
66:c8:88:ARG:NH2	66:c8:112:ASP:OD2	2.53	0.42
69:d1:8:LEU:HA	69:d1:8:LEU:HD12	1.72	0.42
75:d7:23:THR:HG21	75:d7:29:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:848:A:H8	1:1:848:A:O5'	2.01	0.42
1:1:1112:A:H2'	1:1:1113:G:C8	2.55	0.42
1:1:1658:G:H2'	1:1:1659:U:H6	1.83	0.42
1:1:2232:A:P	81:1:4120:OHX:N2	2.92	0.42
1:1:2251:G:O6	81:1:3452:OHX:N3	2.52	0.42
1:1:2865:U:OP2	81:1:3447:OHX:N1	2.53	0.42
1:1:3003:G:P	5:k:26:ARG:HH22	2.43	0.42
81:1:3440:OHX:N2	16:v:204:LYS:O	2.53	0.42
7:m:119:TYR:HE1	7:m:133:GLU:O	2.03	0.42
14:t:116:LEU:HD23	14:t:116:LEU:HA	1.83	0.42
17:w:65:ASN:HB3	17:w:68:ARG:CG	2.47	0.42
17:w:113:ASP:OD1	17:w:113:ASP:N	2.52	0.42
22:2:40:VAL:HB	22:2:96:ILE:HG23	2.02	0.42
38:AK:53:ALA:O	38:AK:57:HIS:HD2	2.01	0.42
1:AR:22:G:H1'	3:AT:104:A:N3	2.35	0.42
1:AR:201:A:H2'	1:AR:202:G:H8	1.84	0.42
1:AR:816:A:H5'	1:AR:906:A:H61	1.84	0.42
1:AR:956:U:H2'	1:AR:957:C:H6	1.82	0.42
1:AR:1016:C:H2'	1:AR:1016:C:O2	2.20	0.42
1:AR:2623:G:C4	1:AR:2624:G:C8	3.08	0.42
1:AR:2977:G:OP2	81:AR:3644:OHX:N6	2.53	0.42
1:AR:3027:A:H2'	1:AR:3028:G:O4'	2.20	0.42
1:AR:3066:U:H2'	1:AR:3067:C:C6	2.54	0.42
1:AR:3166:C:H2'	1:AR:3167:A:C8	2.55	0.42
3:AT:85:G:H3'	3:AT:85:G:H8	1.85	0.42
4:CD:62:VAL:HA	4:CD:73:GLU:HA	2.02	0.42
5:CE:284:ARG:NH1	5:CE:293:ASN:O	2.51	0.42
6:CF:22:LEU:HD23	6:CF:22:LEU:HA	1.78	0.42
12:CL:192:ASP:HA	12:CL:197:VAL:HG12	2.01	0.42
16:CP:9:GLU:OE2	37:DK:41:ARG:HD3	2.20	0.42
17:CQ:159:LYS:O	17:CQ:162:VAL:HG13	2.20	0.42
31:DE:24:THR:HG22	31:DE:91:SER:HB3	2.00	0.42
32:DF:6:ASP:O	32:DF:77:ARG:NE	2.52	0.42
39:DM:57:ASN:OD1	39:DM:57:ASN:N	2.52	0.42
44:DR:84:ARG:O	44:DR:88:GLU:HG3	2.19	0.42
47:A:891:A:H2'	47:A:892:A:H8	1.85	0.42
47:A:1070:C:H2'	47:A:1071:U:H6	1.81	0.42
47:A:1183:A:N1	63:Q:99:GLY:HA3	2.35	0.42
47:A:1244:A:H3'	47:A:1244:A:N3	2.34	0.42
47:A:1471:A:N3	47:A:1471:A:H2'	2.35	0.42
47:A:1508:U:O4	81:A:1971:OHX:N5	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1651:A:N1	47:A:1749:A:H2	2.18	0.42
48:B:106:SER:O	48:B:115:PHE:HD1	2.03	0.42
51:E:27:ARG:HB3	58:L:58:GLN:NE2	2.29	0.42
55:I:88:ARG:HA	55:I:88:ARG:HD3	1.78	0.42
57:K:31:ALA:HA	57:K:36:LEU:HD12	2.02	0.42
60:N:50:LYS:HB2	60:N:53:THR:CG2	2.50	0.42
60:N:54:ARG:O	60:N:56:GLU:N	2.53	0.42
62:P:48:VAL:HG23	62:P:53:ASP:HB2	2.01	0.42
65:S:5:ARG:CD	65:S:5:ARG:N	2.83	0.42
68:V:39:SER:HA	68:V:42:VAL:H	1.85	0.42
70:X:47:ILE:HG22	70:X:65:LEU:CB	2.50	0.42
73:a:79:ALA:O	73:a:82:HIS:HB3	2.20	0.42
73:a:84:GLU:CB	73:a:89:ILE:HD11	2.50	0.42
80:h:72:THR:O	80:h:72:THR:HG23	2.19	0.42
47:sR:93:A:C6	47:sR:398:G:C6	3.08	0.42
47:sR:460:A:H5'	47:sR:461:G:OP2	2.19	0.42
47:sR:475:A:OP1	57:s9:130:THR:OG1	2.36	0.42
47:sR:594:A:H4'	47:sR:595:G:H5'	2.00	0.42
47:sR:846:G:O2'	47:sR:847:A:H5'	2.20	0.42
47:sR:1098:U:H3'	47:sR:1099:U:H5'	2.02	0.42
47:sR:1215:C:H2'	47:sR:1216:C:C5	2.54	0.42
47:sR:1241:G:H3'	47:sR:1242:A:H8	1.85	0.42
47:sR:1699:G:H22	47:sR:1702:A:H5''	1.84	0.42
80:Rb:59:ARG:HH11	80:Rb:95:ALA:HB1	1.84	0.42
80:Rb:260:ILE:HD12	80:Rb:274:LEU:HB2	2.00	0.42
48:s0:199:PRO:C	48:s0:201:LEU:H	2.26	0.42
49:s1:88:VAL:CG2	49:s1:96:LEU:HD12	2.49	0.42
49:s1:182:ALA:O	49:s1:186:SER:HB3	2.19	0.42
50:s2:142:GLY:O	50:s2:151:PRO:HB2	2.19	0.42
53:s5:54:LYS:HD2	53:s5:135:ASP:OD1	2.20	0.42
57:s9:107:ARG:HH11	57:s9:107:ARG:CG	2.24	0.42
57:s9:113:VAL:O	57:s9:117:GLY:O	2.37	0.42
58:c0:29:GLN:HB3	58:c0:39:ASN:HB3	2.01	0.42
63:c5:108:ARG:HA	63:c5:108:ARG:NE	2.34	0.42
64:c6:7:VAL:HG22	64:c6:8:GLN:H	1.85	0.42
1:1:313:A:H2'	1:1:314:U:C6	2.54	0.42
1:1:721:G:H2'	1:1:722:G:H8	1.83	0.42
1:1:1643:A:OP2	35:AH:68:THR:HG21	2.18	0.42
1:1:1662:G:H22	1:1:1787:A:H2	1.67	0.42
1:1:1927:G:OP1	44:AQ:8:VAL:HG13	2.19	0.42
1:1:2137:U:C6	1:1:2141:U:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2160:G:H2'	1:1:2161:G:H8	1.84	0.42
1:1:2361:A:H2'	1:1:2362:C:C6	2.55	0.42
1:1:2960:C:C2	1:1:2961:G:C8	3.08	0.42
1:1:3318:G:C4	1:1:3320:A:C8	3.07	0.42
2:3:59:U:C2	2:3:60:G:C8	3.07	0.42
5:k:293:ASN:HB3	5:k:305:ILE:CD1	2.50	0.42
6:l:289:ILE:O	6:l:295:ILE:HD12	2.20	0.42
7:m:86:TYR:CD1	7:m:247:ILE:HG13	2.55	0.42
8:n:97:ASN:OD1	8:n:98:VAL:N	2.53	0.42
9:o:144:ILE:HD12	9:o:189:ILE:HD12	2.01	0.42
11:q:94:TYR:CE2	11:q:98:PRO:HA	2.55	0.42
12:r:51:HIS:HB3	12:r:134:ILE:HG23	2.02	0.42
13:s:50:ALA:HB2	13:s:65:ILE:HD13	2.02	0.42
14:t:156:ALA:HA	29:AB:99:ALA:O	2.19	0.42
15:u:15:VAL:HG13	21:0:150:PHE:O	2.20	0.42
34:AG:8:TYR:CE2	34:AG:99:ARG:HD3	2.55	0.42
34:AG:60:ARG:O	34:AG:60:ARG:CG	2.68	0.42
37:AJ:20:MET:HE2	37:AJ:20:MET:HB3	1.75	0.42
43:AP:10:THR:O	43:AP:20:HIS:HA	2.19	0.42
45:i:113:ASP:OD1	51:E:116:ARG:NH2	2.49	0.42
1:AR:26:A:C4	1:AR:27:C:C6	3.07	0.42
1:AR:92:G:O2'	43:DQ:55:LYS:HD2	2.19	0.42
1:AR:379:C:H2'	1:AR:380:U:H6	1.85	0.42
1:AR:1235:U:H4'	1:AR:1236:G:C5'	2.46	0.42
1:AR:2574:G:H2'	1:AR:2575:G:C8	2.54	0.42
3:AT:8:C:H2'	3:AT:9:A:C8	2.55	0.42
7:CG:136:GLU:OE2	7:CG:137:ASP:N	2.53	0.42
7:CG:184:ASP:OD1	7:CG:187:THR:HG22	2.20	0.42
9:CI:158:LYS:O	9:CI:159:GLN:HG2	2.19	0.42
9:CI:202:LEU:HD12	9:CI:202:LEU:HA	1.79	0.42
10:CJ:140:VAL:O	10:CJ:144:GLU:HG3	2.18	0.42
12:CL:216:TYR:HA	81:CL:301:OHX:N1	2.34	0.42
15:CO:40:ASP:OD1	15:CO:43:LYS:N	2.52	0.42
20:CT:176:ARG:O	20:CT:179:GLU:HG2	2.19	0.42
21:CU:7:TYR:CE2	21:CU:34:GLU:HG2	2.54	0.42
22:CV:16:GLN:HG2	22:CV:17:ARG:H	1.84	0.42
26:CZ:108:LEU:HD12	26:CZ:108:LEU:HA	1.90	0.42
28:DB:69:LYS:HA	28:DB:70:PRO:HD3	1.92	0.42
36:DJ:56:THR:O	36:DJ:60:GLU:HG3	2.19	0.42
39:DM:64:LYS:NZ	39:DM:68:SER:HB3	2.35	0.42
47:A:228:G:H2'	47:A:229:U:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:274:G:H3'	47:A:275:C:C5	2.54	0.42
47:A:449:C:H2'	47:A:450:U:C6	2.55	0.42
47:A:614:C:C2	47:A:615:A:C8	3.08	0.42
47:A:967:A:OP1	61:O:4:MET:HB2	2.20	0.42
47:A:982:U:OP1	81:A:2132:OHX:N2	2.53	0.42
47:A:1049:U:OP1	75:c:70:LYS:HB2	2.19	0.42
47:A:1111:G:OP2	81:A:2121:OHX:N5	2.52	0.42
47:A:1133:A:H2'	47:A:1134:C:O4'	2.19	0.42
47:A:1195:C:H42	64:R:143:ARG:HA	1.83	0.42
47:A:1378:U:N3	64:R:8:GLN:OE1	2.53	0.42
47:A:1391:A:H2'	47:A:1392:U:H6	1.83	0.42
47:A:1535:U:O2'	47:A:1536:G:H5''	2.20	0.42
47:A:1595:U:H5	47:A:1596:C:C5	2.37	0.42
47:A:1682:U:O2'	47:A:1683:C:H2'	2.19	0.42
48:B:88:LYS:NZ	65:S:79:GLU:O	2.44	0.42
49:C:191:GLU:HG3	49:C:195:LYS:HZ1	1.84	0.42
50:D:39:THR:O	50:D:42:GLY:N	2.52	0.42
51:E:92:GLN:H	51:E:92:GLN:CD	2.27	0.42
51:E:109:LEU:HD23	51:E:109:LEU:HA	1.69	0.42
52:F:18:TRP:CZ2	52:F:43:PRO:HD3	2.53	0.42
52:F:123:LEU:HD13	52:F:159:THR:HG21	2.01	0.42
53:G:123:VAL:HG22	73:a:58:ARG:O	2.19	0.42
53:G:169:ASN:O	53:G:172:ILE:HG13	2.19	0.42
53:G:194:LEU:O	53:G:198:LEU:HG	2.20	0.42
53:G:225:ARG:HA	53:G:225:ARG:NE	2.34	0.42
55:I:22:GLN:HA	55:I:25:VAL:CG2	2.47	0.42
56:J:107:THR:N	56:J:108:PRO:HD2	2.34	0.42
61:O:34:ILE:HG13	61:O:35:GLU:N	2.34	0.42
64:R:51:PRO:HB2	64:R:85:ILE:HD11	2.02	0.42
64:R:129:PHE:CD1	64:R:129:PHE:O	2.72	0.42
66:T:2:SER:HB3	66:T:3:LEU:H	1.71	0.42
66:T:91:ASP:CG	66:T:92:ILE:N	2.78	0.42
67:U:28:LEU:HD13	67:U:55:TYR:OH	2.20	0.42
70:X:85:ASP:HA	70:X:88:LYS:HD2	2.01	0.42
72:Z:7:ILE:C	72:Z:8:ARG:HG3	2.44	0.42
74:b:45:VAL:HB	74:b:50:VAL:HG12	1.89	0.42
75:c:55:THR:CG2	75:c:56:CYS:N	2.82	0.42
80:h:110:VAL:HA	80:h:126:SER:HA	2.02	0.42
80:h:120:SER:HA	80:h:136:ILE:HG12	2.01	0.42
80:h:128:ASP:O	80:h:130:THR:HG23	2.19	0.42
47:sR:30:G:H2'	47:sR:31:C:H6	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:471:A:O2'	57:s9:9:SER:O	2.33	0.42
47:sR:811:A:N3	47:sR:858:G:H1'	2.35	0.42
47:sR:1163:A:N3	47:sR:1613:U:O2'	2.40	0.42
47:sR:1287:A:H4'	47:sR:1288:G:OP1	2.18	0.42
47:sR:1312:A:N7	65:c7:2:GLY:N	2.68	0.42
47:sR:1439:C:C2	47:sR:1440:C:C5	3.08	0.42
47:sR:1532:U:H2'	47:sR:1533:C:O4'	2.20	0.42
80:Rb:203:THR:HG23	80:Rb:245:PHE:HD2	1.84	0.42
48:s0:123:VAL:HG11	48:s0:129:ASP:HB2	2.02	0.42
48:s0:157:ASP:OD2	69:d1:32:VAL:HG21	2.19	0.42
49:s1:57:ALA:O	49:s1:61:LEU:HG	2.20	0.42
49:s1:69:CYS:O	49:s1:72:ASP:HB2	2.20	0.42
50:s2:144:TRP:HB2	50:s2:172:ALA:O	2.19	0.42
51:s3:63:GLY:O	51:s3:66:ILE:HG22	2.19	0.42
54:s6:73:ILE:HD12	54:s6:75:LEU:HD13	2.01	0.42
55:s7:77:LEU:HD23	55:s7:92:PHE:CZ	2.54	0.42
55:s7:92:PHE:O	55:s7:93:LEU:HD23	2.20	0.42
56:s8:137:LYS:HA	56:s8:140:GLU:OE1	2.18	0.42
61:c3:53:LEU:HD12	61:c3:53:LEU:HA	1.85	0.42
66:c8:43:SER:HA	66:c8:46:VAL:HG12	2.02	0.42
69:d1:3:ASN:HD22	69:d1:5:LYS:CE	2.32	0.42
75:d7:7:LEU:O	75:d7:10:PRO:HD3	2.19	0.42
75:d7:81:ARG:O	75:d7:82:LYS:HB3	2.19	0.42
1:1:40:A:N7	29:AB:29:PRO:O	2.52	0.42
1:1:591:G:H4'	1:1:592:A:OP1	2.20	0.42
1:1:609:G:H8	6:l:310:THR:HG22	1.85	0.42
1:1:625:G:H2'	1:1:626:U:H6	1.85	0.42
1:1:807:A:C2	1:1:808:A:C8	3.07	0.42
1:1:1613:A:OP1	39:AL:2:ALA:N	2.53	0.42
1:1:2110:G:O2'	1:1:2111:G:O5'	2.34	0.42
1:1:2179:C:O2'	4:j:174:ARG:NH2	2.53	0.42
1:1:2215:A:C4	1:1:2216:G:C8	3.08	0.42
1:1:2674:A:C5	13:s:124:GLY:HA3	2.55	0.42
1:1:2709:C:H2'	1:1:2710:C:C6	2.55	0.42
1:1:3066:U:C2	1:1:3067:C:C5	3.08	0.42
1:1:3315:G:OP2	5:k:116:ARG:NH2	2.53	0.42
1:1:3373:U:OP2	32:AE:102:LYS:HE2	2.20	0.42
5:k:212:ASN:OD1	5:k:354:VAL:HG12	2.19	0.42
6:l:145:ILE:HG22	81:l:402:OHX:N2	2.34	0.42
7:m:41:LYS:HE3	22:2:93:VAL:HG11	2.01	0.42
7:m:260:PHE:HD1	7:m:264:GLN:NE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:n:97:ASN:OD1	8:n:97:ASN:C	2.62	0.42
10:p:45:ASN:HD21	10:p:47:SER:HB3	1.85	0.42
10:p:185:ARG:HA	10:p:188:THR:HG23	2.02	0.42
11:q:128:VAL:HG23	11:q:132:VAL:HG22	2.02	0.42
13:s:163:PHE:O	13:s:166:LYS:O	2.37	0.42
16:v:94:TYR:CE2	16:v:96:ARG:HB2	2.54	0.42
18:x:167:ARG:O	34:AG:60:ARG:HB2	2.20	0.42
19:y:54:LEU:HD22	19:y:58:ASN:HB3	2.02	0.42
22:2:51:GLY:HA3	22:2:92:ARG:HG3	2.02	0.42
32:AE:16:LEU:HD23	32:AE:16:LEU:HA	1.82	0.42
35:AH:3:GLN:HB3	35:AH:30:LEU:HD12	2.02	0.42
36:AI:93:THR:N	36:AI:96:GLU:OE2	2.52	0.42
45:i:95:SER:HA	47:A:1274:C:C5	2.55	0.42
1:AR:840:C:H4'	20:CT:128:LYS:HD3	2.02	0.42
1:AR:1064:A:N6	1:AR:1096:U:H3	2.18	0.42
1:AR:1097:G:C8	22:CV:128:LEU:HD13	2.55	0.42
1:AR:1581:C:H2'	1:AR:1582:C:H5'	2.02	0.42
1:AR:2376:G:H2'	1:AR:2377:G:C8	2.55	0.42
1:AR:2521:U:H2'	1:AR:2522:G:H5'	2.02	0.42
1:AR:2580:A:O2'	81:AR:3623:OHX:N4	2.53	0.42
1:AR:2859:U:H4'	1:AR:2860:U:OP1	2.19	0.42
3:AT:6:U:C2	3:AT:7:U:C5	3.08	0.42
3:AT:52:A:OP1	40:DN:21:ARG:NH1	2.53	0.42
29:DC:47:LYS:O	29:DC:48:TYR:CG	2.73	0.42
33:DG:16:LYS:HD2	33:DG:17:PHE:N	2.34	0.42
38:DL:18:LEU:HA	38:DL:25:ARG:H	1.85	0.42
41:DO:111:ARG:HG3	41:DO:112:LYS:HD2	2.01	0.42
44:DR:7:LYS:O	44:DR:27:LYS:NZ	2.40	0.42
47:A:60:U:H5'	47:A:455:C:N4	2.34	0.42
47:A:149:C:H2'	47:A:150:U:H6	1.85	0.42
47:A:396:G:O6	56:J:26:LYS:HE3	2.20	0.42
47:A:788:A:H2'	52:F:19:LEU:HD12	2.00	0.42
47:A:821:U:C4	47:A:852:C:C2	3.07	0.42
47:A:929:A:O4'	62:P:124:ASP:HB2	2.19	0.42
47:A:996:U:H3	47:A:1008:G:H1	1.68	0.42
47:A:1370:U:O2'	47:A:1371:A:OP2	2.33	0.42
47:A:1558:U:H5'	47:A:1558:U:H6	1.84	0.42
47:A:1566:U:P	66:T:39:GLY:HA3	2.60	0.42
47:A:1594:G:OP2	47:A:1596:C:N4	2.53	0.42
49:C:137:ILE:CD1	49:C:172:LEU:HG	2.50	0.42
49:C:138:PHE:HD2	49:C:214:LYS:CB	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D:111:VAL:HG13	50:D:191:ALA:HA	2.02	0.42
51:E:209:ILE:HD12	51:E:209:ILE:HA	1.92	0.42
52:F:45:ILE:HA	52:F:61:VAL:HG11	2.01	0.42
53:G:149:VAL:O	53:G:155:ALA:HB1	2.19	0.42
55:I:67:LEU:O	55:I:71:HIS:CG	2.72	0.42
62:P:12:GLN:HG2	62:P:77:THR:HG21	2.02	0.42
65:S:21:TYR:CZ	65:S:61:ILE:HD11	2.54	0.42
68:V:24:ILE:CD1	68:V:26:LEU:HD21	2.49	0.42
72:Z:82:ALA:O	72:Z:86:GLU:HB2	2.19	0.42
80:h:150:TRP:HB2	80:h:174:ASN:CB	2.49	0.42
80:h:157:VAL:HG11	80:h:168:THR:H	1.82	0.42
47:sR:538:A:H2	47:sR:540:G:H22	1.67	0.42
47:sR:1092:A:O2'	47:sR:1093:A:H3'	2.18	0.42
47:sR:1603:U:H2'	47:sR:1604:U:C6	2.55	0.42
47:sR:1724:U:O4	81:sR:1948:OHX:N5	2.53	0.42
48:s0:17:LEU:O	48:s0:22:THR:HG22	2.20	0.42
52:s4:159:THR:HG21	52:s4:227:VAL:O	2.19	0.42
53:s5:215:ASP:C	53:s5:219:ARG:NH2	2.77	0.42
54:s6:153:VAL:O	54:s6:156:PHE:N	2.53	0.42
55:s7:73:VAL:HB	55:s7:76:LYS:HD2	2.02	0.42
75:d7:38:PRO:HG3	75:d7:76:GLY:O	2.19	0.42
78:e0:39:LEU:O	78:e0:43:ARG:HB2	2.19	0.42
1:1:26:A:C5	1:1:27:C:C5	3.07	0.42
1:1:72:C:H5''	1:1:73:C:OP2	2.20	0.42
1:1:282:G:H3'	1:1:282:G:C8	2.55	0.42
1:1:1509:A:O2'	1:1:1510:G:H5'	2.20	0.42
1:1:1573:G:H2'	1:1:1573:G:N3	2.34	0.42
1:1:1580:A:H1'	1:1:1581:C:H5	1.83	0.42
1:1:1710:C:H2'	1:1:1711:C:C6	2.55	0.42
1:1:2127:U:O2'	1:1:2301:U:OP1	2.33	0.42
1:1:2520:A:O2'	1:1:2521:U:H5'	2.19	0.42
1:1:2869:U:H5''	1:1:2870:C:OP2	2.20	0.42
1:1:3329:U:H5''	5:k:308:MET:CE	2.50	0.42
1:1:3379:C:H4'	5:k:315:GLY:HA2	2.02	0.42
6:l:8:VAL:HG12	6:l:9:HIS:N	2.35	0.42
7:m:83:LEU:N	7:m:84:PRO:HD2	2.34	0.42
7:m:239:ILE:N	7:m:239:ILE:HD12	2.35	0.42
11:q:55:VAL:HG12	11:q:68:LEU:CD1	2.50	0.42
16:v:31:ARG:O	16:v:31:ARG:HG2	2.19	0.42
20:z:114:LYS:HE3	20:z:114:LYS:HB2	1.74	0.42
27:9:71:SER:N	27:9:81:GLN:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AA:6:LYS:HA	28:AA:6:LYS:HD2	1.54	0.42
29:AB:74:ASN:C	29:AB:76:ASP:N	2.74	0.42
38:AK:24:ARG:O	38:AK:25:ARG:HB3	2.20	0.42
1:AR:3:U:N3	3:AT:157:U:O2	2.53	0.42
1:AR:773:G:O6	81:AR:3438:OHX:N5	2.52	0.42
1:AR:1184:A:O2'	1:AR:1185:C:H5'	2.19	0.42
1:AR:1464:G:N2	1:AR:1466:G:H3'	2.34	0.42
1:AR:1667:A:H2'	1:AR:1668:G:H8	1.81	0.42
1:AR:2144:A:C4	1:AR:2281:A:C6	3.08	0.42
1:AR:2218:G:H2'	1:AR:2219:A:H8	1.84	0.42
1:AR:2287:C:O2'	81:AR:3446:OHX:N3	2.52	0.42
1:AR:2434:U:H5	1:AR:2594:C:OP2	2.02	0.42
1:AR:2632:G:C6	1:AR:2647:A:C6	3.08	0.42
1:AR:2996:U:O2	1:AR:2996:U:H2'	2.20	0.42
1:AR:3153:U:H3'	1:AR:3154:C:H6	1.85	0.42
1:AR:3181:C:H2'	1:AR:3182:G:O4'	2.19	0.42
1:AR:3254:G:O6	81:AR:3687[B]:OHX:N3	2.53	0.42
2:AS:9:C:OP1	22:CV:26:HIS:HB2	2.20	0.42
5:CE:286:GLY:HA3	5:CE:321:PHE:CD1	2.54	0.42
6:CF:22:LEU:HA	6:CF:23:PRO:HD3	1.83	0.42
11:CK:106:LYS:HD2	11:CK:106:LYS:HA	1.55	0.42
11:CK:156:GLN:NE2	11:CK:160:ASP:OD1	2.52	0.42
12:CL:73:ASN:O	12:CL:77:THR:HG23	2.20	0.42
13:CM:95:ASN:O	13:CM:102:PHE:HA	2.20	0.42
14:CN:46:ILE:HG21	14:CN:46:ILE:HD13	1.83	0.42
26:CZ:96:LYS:HG3	26:CZ:107:VAL:HB	2.02	0.42
28:DB:46:ILE:HD11	28:DB:48:ARG:O	2.20	0.42
46:p0:36:GLN:HA	46:p0:39:HIS:HB2	2.02	0.42
47:A:422:G:OP1	81:A:1910:OHX:N6	2.52	0.42
47:A:582:U:H3'	47:A:583:C:C5	2.54	0.42
47:A:840:U:O2'	47:A:841:U:H6	2.02	0.42
47:A:938:G:N2	47:A:941:A:OP2	2.45	0.42
47:A:1132:A:H2'	47:A:1133:A:H8	1.85	0.42
47:A:1302:U:C2	47:A:1303:U:C5	3.08	0.42
47:A:1539:G:C4	66:T:30:TYR:CE2	3.08	0.42
50:D:81:MET:HE1	50:D:186:LYS:HB3	2.02	0.42
53:G:41:LYS:HG2	53:G:67:PRO:CB	2.50	0.42
53:G:147:THR:HG22	53:G:148:ARG:N	2.35	0.42
54:H:121:LEU:N	54:H:125:THR:OG1	2.44	0.42
55:I:154:LEU:H	55:I:154:LEU:HD22	1.84	0.42
57:K:60:LEU:HD11	57:K:93:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:K:90:LYS:HB3	57:K:95:TYR:HB2	2.02	0.42
60:N:28:LEU:HD23	60:N:136:ILE:HG21	2.02	0.42
61:O:49:GLN:O	61:O:52:VAL:HG12	2.20	0.42
63:Q:38:PRO:HD2	63:Q:41:VAL:CG1	2.50	0.42
66:T:24:GLY:O	66:T:58:ALA:HB3	2.19	0.42
66:T:60:GLU:O	66:T:61:LEU:HD12	2.19	0.42
71:Y:48:HIS:CD2	71:Y:105:ALA:HB2	2.55	0.42
71:Y:89:ASN:O	71:Y:136:TRP:NE1	2.53	0.42
78:f:41:THR:O	78:f:45:VAL:HG22	2.20	0.42
47:sR:477:A:P	78:e0:28:LYS:NZ	2.92	0.42
47:sR:652:G:OP2	81:sR:2012:OHX:N4	2.52	0.42
47:sR:848:C:H2'	47:sR:849:C:H6	1.80	0.42
47:sR:922:G:H2'	47:sR:923:A:C8	2.54	0.42
47:sR:938:G:N2	47:sR:941:A:OP2	2.46	0.42
47:sR:1325:A:H2'	47:sR:1326:A:H8	1.84	0.42
47:sR:1474:G:C2	47:sR:1475:A:C5	3.08	0.42
47:sR:1580:C:H4'	64:c6:137:ARG:HB2	2.02	0.42
80:Rb:19:TRP:O	80:Rb:38:ARG:N	2.49	0.42
80:Rb:40:LYS:HD3	80:Rb:66:HIS:CA	2.50	0.42
80:Rb:61:PHE:HD2	80:Rb:92:TRP:CE3	2.38	0.42
80:Rb:149:ASP:HB2	80:Rb:175:ASP:CB	2.48	0.42
48:s0:157:ASP:OD1	48:s0:157:ASP:N	2.52	0.42
53:s5:163:SER:HB3	76:d8:46:GLY:HA3	2.01	0.42
54:s6:123:GLY:N	54:s6:126:ASP:OD1	2.51	0.42
55:s7:85:PHE:CD1	55:s7:86:GLN:O	2.73	0.42
57:s9:65:LYS:N	57:s9:70:LEU:HD21	2.35	0.42
62:c4:61:MET:HB2	62:c4:104:ALA:HB2	2.02	0.42
65:c7:61:ILE:HA	65:c7:64:GLY:O	2.19	0.42
65:c7:66:VAL:CG2	65:c7:69:ILE:HD12	2.50	0.42
72:d4:52:LYS:O	72:d4:55:VAL:N	2.24	0.42
74:d6:58:VAL:HG23	74:d6:59:TYR:CD2	2.55	0.42
1:1:94:G:H2'	1:1:95:A:C8	2.55	0.42
1:1:289:A:C2	16:v:93:LYS:HD3	2.55	0.42
1:1:289:A:H2	16:v:93:LYS:HD3	1.85	0.42
1:1:609:G:C8	6:l:310:THR:HG22	2.55	0.42
1:1:656:A:H2'	1:1:657:A:H8	1.85	0.42
1:1:1120:A:H2'	1:1:1121:U:H6	1.84	0.42
1:1:1666:G:H2'	1:1:1667:A:H8	1.83	0.42
1:1:1681:U:H2'	1:1:1682:U:O4'	2.20	0.42
1:1:2544:U:H2'	1:1:2545:C:C6	2.55	0.42
1:1:2592:G:N7	81:1:3434:OHX:N1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2948:C:H2'	1:1:2949:U:H6	1.85	0.42
6:l:3:ARG:HD2	6:l:3:ARG:HA	1.57	0.42
6:l:191:LYS:HG2	6:l:194:TYR:CZ	2.54	0.42
6:l:219:LEU:HD23	6:l:219:LEU:HA	1.82	0.42
6:l:291:ASN:HA	6:l:296:GLN:HE21	1.85	0.42
9:o:144:ILE:O	9:o:148:VAL:HG23	2.20	0.42
14:t:158:ALA:HB2	29:AB:97:GLU:HA	2.02	0.42
17:w:25:LYS:HA	17:w:25:LYS:HD2	1.66	0.42
21:0:21:GLU:N	21:0:22:PRO:HD3	2.35	0.42
22:2:17:ARG:HB3	22:2:22:HIS:NE2	2.35	0.42
23:5:104:ARG:CG	23:5:105:LEU:N	2.83	0.42
28:AA:9:LYS:HG3	28:AA:10:VAL:O	2.20	0.42
28:AA:13:VAL:HG12	28:AA:21:LYS:O	2.20	0.42
30:AC:28:LYS:HG2	30:AC:29:TYR:CD1	2.54	0.42
32:AE:33:VAL:HG22	32:AE:59:ILE:HD11	2.01	0.42
32:AE:85:ALA:O	32:AE:87:ASN:N	2.53	0.42
35:AH:74:ARG:CZ	35:AH:74:ARG:HB3	2.50	0.42
37:AJ:58:ILE:HA	37:AJ:61:ILE:HG13	2.00	0.42
1:AR:26:A:C4	1:AR:330:G:C8	3.08	0.42
1:AR:167:U:H2'	1:AR:168:U:C6	2.55	0.42
1:AR:352:A:H61	1:AR:365:A:H5''	1.85	0.42
1:AR:627:U:H2'	1:AR:628:A:C8	2.55	0.42
1:AR:1063:G:OP2	1:AR:1097:G:H3'	2.20	0.42
1:AR:1195:A:H1'	1:AR:1319:G:H4'	2.02	0.42
1:AR:1283:C:OP1	46:p0:82:GLY:N	2.52	0.42
1:AR:1831:U:H2'	1:AR:1832:C:C6	2.55	0.42
1:AR:2148:U:H2'	1:AR:2149:A:C5	2.54	0.42
1:AR:2555:G:C5	1:AR:2556:C:C5	3.08	0.42
1:AR:2718:U:H2'	1:AR:2719:U:C6	2.54	0.42
1:AR:2746:A:O2'	7:CG:175:HIS:HA	2.20	0.42
1:AR:2867:C:H2'	1:AR:2868:U:H6	1.85	0.42
1:AR:2943:G:H2'	1:AR:2944:U:O4'	2.20	0.42
3:AT:102:U:H2'	3:AT:103:G:C8	2.55	0.42
4:CD:156:LYS:HG3	4:CD:157:VAL:N	2.34	0.42
5:CE:152:LYS:HG2	5:CE:192:VAL:CG1	2.48	0.42
10:CJ:190:VAL:HG12	10:CJ:190:VAL:O	2.19	0.42
13:CM:17:LEU:HD21	13:CM:19:LEU:HD21	2.02	0.42
15:CO:97:SER:O	15:CO:101:LYS:HG3	2.20	0.42
16:CP:154:PRO:O	16:CP:157:LYS:HG3	2.20	0.42
20:CT:106:LEU:CD1	20:CT:138:LEU:HD21	2.49	0.42
34:DH:8:TYR:CD1	34:DH:99:ARG:HG2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DL:63:ARG:HH21	38:DL:65:ARG:HD3	1.85	0.42
39:DM:7:ASP:OD2	39:DM:9:LYS:HG3	2.20	0.42
47:A:67:A:H3'	47:A:69:G:C8	2.55	0.42
47:A:236:A:H2'	47:A:237:C:O4'	2.20	0.42
47:A:364:G:O2'	47:A:756:A:N6	2.49	0.42
47:A:559:C:OP1	78:f:60:PRO:HG2	2.19	0.42
47:A:736:C:N4	47:A:737:A:N7	2.68	0.42
47:A:743:U:C4	47:A:809:A:C2	3.07	0.42
47:A:950:C:H2'	47:A:951:A:C8	2.55	0.42
47:A:1011:G:HO2'	47:A:1012:U:H6	1.66	0.42
47:A:1433:G:H2'	47:A:1434:U:C6	2.55	0.42
47:A:1503:A:O2'	67:U:37:VAL:HG13	2.19	0.42
47:A:1636:C:O2	47:A:1765:A:N6	2.53	0.42
47:A:1785:U:H5''	62:P:136:ARG:NH2	2.35	0.42
48:B:197:ILE:HD13	48:B:197:ILE:HA	1.86	0.42
50:D:169:LEU:HD12	50:D:169:LEU:N	2.34	0.42
53:G:117:THR:HG21	53:G:194:LEU:HD22	2.02	0.42
55:I:141:ARG:HG2	55:I:143:LEU:HD12	2.01	0.42
56:J:142:LYS:H	56:J:142:LYS:HG3	1.65	0.42
58:L:42:VAL:HG12	58:L:46:LEU:HD23	2.01	0.42
60:N:51:ALA:CB	60:N:57:ALA:HB2	2.50	0.42
67:U:36:ILE:O	67:U:46:PRO:HB3	2.20	0.42
69:W:79:LEU:HD23	69:W:82:VAL:CG1	2.50	0.42
72:Z:29:HIS:CD2	72:Z:32:ARG:O	2.72	0.42
73:a:51:LEU:HD12	73:a:51:LEU:HA	1.83	0.42
73:a:86:GLU:N	73:a:86:GLU:OE1	2.53	0.42
76:d:32:PHE:O	76:d:36:THR:HA	2.20	0.42
80:h:278:PHE:CZ	80:h:311:ARG:NH2	2.88	0.42
80:h:299:GLN:NE2	80:h:315:VAL:O	2.53	0.42
47:sR:300:A:H2'	47:sR:301:A:C8	2.54	0.42
47:sR:507:U:H2'	47:sR:508:U:C6	2.53	0.42
47:sR:819:G:O2'	47:sR:821:U:OP2	2.37	0.42
80:Rb:19:TRP:O	80:Rb:37:SER:HA	2.20	0.42
80:Rb:72:THR:HG22	80:Rb:81:LEU:HB2	2.00	0.42
49:s1:225:VAL:O	49:s1:229:MET:HG2	2.20	0.42
50:s2:152:HIS:O	50:s2:194:GLU:HB2	2.20	0.42
51:s3:9:ARG:HA	51:s3:12:VAL:HG22	2.01	0.42
52:s4:255:ARG:HA	52:s4:255:ARG:HD3	1.71	0.42
55:s7:49:ILE:HD12	55:s7:49:ILE:HA	1.79	0.42
55:s7:102:PRO:HD3	55:s7:112:ARG:NE	2.35	0.42
57:s9:117:GLY:C	57:s9:118:LEU:HD12	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:c4:26:THR:OG1	62:c4:97:GLY:HA3	2.20	0.42
63:c5:16:SER:OG	63:c5:21:ASP:HA	2.20	0.42
63:c5:60:LEU:HD22	63:c5:76:VAL:HG11	2.02	0.42
64:c6:32:ASN:N	64:c6:67:VAL:O	2.53	0.42
66:c8:28:ILE:CD1	66:c8:56:LYS:O	2.68	0.42
69:d1:17:CYS:SG	69:d1:20:THR:HG23	2.59	0.42
72:d4:52:LYS:C	72:d4:54:ALA:H	2.28	0.42
77:d9:22:ARG:HG3	77:d9:37:ASN:O	2.20	0.42
1:1:210:U:C2	1:1:230:U:H4'	2.55	0.41
1:1:261:U:H2'	1:1:262:U:C6	2.55	0.41
1:1:359:U:O2'	38:AK:16:HIS:ND1	2.50	0.41
1:1:855:U:H2'	1:1:856:G:O4'	2.19	0.41
1:1:1495:U:C5	1:1:1835:A:N1	2.87	0.41
1:1:1503:A:H2'	1:1:1504:A:H8	1.85	0.41
1:1:1504:A:C5	1:1:1505:C:C5	3.08	0.41
1:1:2153:U:OP1	4:j:246:LEU:HB2	2.20	0.41
1:1:2395:G:H5''	5:k:255:TRP:CD1	2.55	0.41
1:1:2854:U:P	12:r:3:ARG:HH22	2.43	0.41
1:1:2948:C:H2'	1:1:2949:U:C6	2.55	0.41
1:1:3045:G:H2'	1:1:3046:A:O4'	2.20	0.41
81:1:3527:OHX:N2	81:1:4113:OHX:N6	2.67	0.41
3:4:150:G:OP1	26:8:27:ARG:NH2	2.47	0.41
4:j:177:LYS:NZ	44:AQ:33:GLN:HE22	2.17	0.41
5:k:306:THR:CG2	5:k:317:ILE:H	2.33	0.41
7:m:115:LEU:H	7:m:115:LEU:HD12	1.85	0.41
7:m:146:LEU:HG	7:m:148:ILE:HG23	2.02	0.41
7:m:197:SER:OG	7:m:202:GLY:HA3	2.20	0.41
11:q:10:ILE:O	11:q:52:LEU:HD12	2.20	0.41
14:t:99:HIS:CE1	14:t:100:ARG:HG3	2.55	0.41
15:u:17:VAL:HG12	15:u:72:LEU:HB3	2.01	0.41
21:0:5:LYS:HD2	21:0:7:TYR:OH	2.19	0.41
27:9:80:VAL:HG12	27:9:99:LEU:O	2.20	0.41
28:AA:10:VAL:HB	28:AA:83:THR:CG2	2.50	0.41
33:AF:72:LYS:O	33:AF:92:TYR:HA	2.20	0.41
1:AR:634:C:H5'	34:DH:21:ARG:O	2.20	0.41
1:AR:1596:C:O2'	1:AR:1696:A:N3	2.49	0.41
1:AR:1944:U:H2'	1:AR:1945:A:C8	2.55	0.41
1:AR:2126:A:OP1	81:sR:1901:OHX:N1	2.53	0.41
1:AR:2167:A:H2'	1:AR:2168:A:C8	2.54	0.41
1:AR:2310:U:OP1	81:AR:3478[B]:OHX:N5	2.52	0.41
1:AR:2585:G:N3	1:AR:2585:G:H2'	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2922:G:N1	1:AR:2923:U:O2	2.53	0.41
1:AR:3017:A:H2'	1:AR:3018:C:H6	1.85	0.41
1:AR:3136:G:C5	1:AR:3137:C:C5	3.08	0.41
1:AR:3159:C:H4'	1:AR:3395:G:C5	2.55	0.41
8:CH:131:LYS:HG3	8:CH:133:GLU:HB3	2.02	0.41
10:CJ:163:VAL:O	10:CJ:166:LEU:HB2	2.20	0.41
12:CL:218:ALA:O	81:CL:301:OHX:N3	2.53	0.41
16:CP:44:ARG:HH21	16:CP:47:LYS:HD3	1.86	0.41
17:CQ:20:ALA:HB3	17:CQ:87:MET:HE3	2.02	0.41
23:CW:22:PRO:N	23:CW:107:PHE:HE2	2.18	0.41
28:DB:36:HIS:CD2	28:DB:36:HIS:N	2.88	0.41
35:DI:52:GLN:H	35:DI:52:GLN:HG3	1.68	0.41
39:DM:65:LEU:O	39:DM:68:SER:OG	2.32	0.41
41:DO:93:LYS:HD2	41:DO:102:ARG:CD	2.49	0.41
43:DQ:15:LYS:HA	43:DQ:18:ARG:CD	2.47	0.41
44:DR:14:TYR:HE2	44:DR:26:VAL:HG11	1.85	0.41
46:p0:69:ASP:HB2	46:p0:70:LEU:CD1	2.50	0.41
46:p0:105:VAL:HG23	46:p0:184:GLY:HA3	2.01	0.41
47:A:427:C:C4	47:A:428:A:N7	2.88	0.41
47:A:584:C:OP2	81:A:2105:OHX:N1	2.53	0.41
47:A:641:G:N2	47:A:693:U:O2	2.39	0.41
47:A:1062:A:H2'	47:A:1063:U:O4'	2.20	0.41
47:A:1277:G:C4	47:A:1436:A:C2	3.08	0.41
47:A:1526:A:H5''	47:A:1527:C:OP2	2.20	0.41
47:A:1673:G:C5	47:A:1674:C:C5	3.08	0.41
47:A:1792:G:O5'	74:b:3:LYS:HA	2.20	0.41
51:E:31:GLU:HG3	51:E:32:GLU:OE2	2.20	0.41
51:E:40:ARG:O	51:E:42:THR:HG22	2.20	0.41
54:H:171:LYS:HB2	54:H:171:LYS:HE3	1.96	0.41
57:K:36:LEU:HB3	57:K:41:GLU:HG3	2.02	0.41
57:K:77:ILE:O	57:K:81:VAL:HG13	2.19	0.41
59:M:102:LYS:O	71:Y:13:ARG:NH2	2.52	0.41
60:N:132:GLU:N	60:N:132:GLU:OE2	2.53	0.41
61:O:3:ARG:HG2	61:O:8:GLY:O	2.20	0.41
64:R:31:VAL:HG22	64:R:32:ASN:OD1	2.19	0.41
64:R:35:PRO:CG	67:U:8:ASP:HA	2.50	0.41
70:X:78:ARG:HH11	70:X:78:ARG:HG3	1.85	0.41
71:Y:52:ILE:N	71:Y:74:VAL:HG23	2.35	0.41
72:Z:36:SER:O	72:Z:40:LEU:HD12	2.20	0.41
79:g:147:VAL:HG13	79:g:148:TYR:N	2.34	0.41
80:h:13:LEU:C	80:h:309:VAL:HG23	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:329:G:H2'	47:sR:330:G:C8	2.55	0.41
47:sR:448:C:H2'	47:sR:449:C:H6	1.84	0.41
47:sR:868:G:C2	47:sR:869:A:C8	3.08	0.41
47:sR:1388:A:OP2	65:c7:32:LYS:NZ	2.52	0.41
47:sR:1389:C:OP2	65:c7:45:ARG:HB2	2.19	0.41
80:Rb:260:ILE:HD13	80:Rb:274:LEU:HD12	2.02	0.41
49:s1:141:ALA:HB2	49:s1:210:ILE:HG23	2.02	0.41
50:s2:224:PHE:HE1	70:d2:70:ASN:OD1	2.03	0.41
51:s3:224:ASP:CG	51:s3:225:TYR:H	2.28	0.41
55:s7:14:THR:O	55:s7:18:LEU:HD12	2.20	0.41
63:c5:33:PHE:CZ	63:c5:112:LEU:HD13	2.55	0.41
66:c8:6:GLN:HG3	73:d5:44:GLN:CD	2.45	0.41
72:d4:34:ASN:OD1	72:d4:35:VAL:HG13	2.20	0.41
1:1:992:A:O2'	1:1:993:G:H5'	2.18	0.41
1:1:1281:G:C2	1:1:1282:G:C5	3.08	0.41
1:1:1785:U:H5''	35:AH:38:LEU:HD11	2.01	0.41
1:1:2422:C:O5'	43:AP:52:GLY:HA2	2.20	0.41
1:1:3299:A:C5	1:1:3300:U:C5	3.08	0.41
4:j:186:PHE:HB2	4:j:196:TRP:CZ3	2.55	0.41
5:k:24:SER:O	5:k:220:VAL:HG21	2.21	0.41
5:k:122:TRP:CH2	5:k:127:LYS:HG2	2.55	0.41
6:l:26:PHE:CD1	6:l:130:ALA:HB2	2.55	0.41
9:o:186:HIS:HA	9:o:189:ILE:HG22	2.01	0.41
10:p:24:ASN:N	10:p:27:THR:OG1	2.53	0.41
10:p:106:LYS:HG3	10:p:107:GLU:N	2.35	0.41
19:y:88:THR:HG22	19:y:107:THR:HG21	2.01	0.41
22:2:75:ILE:HD11	22:2:86:GLU:CD	2.45	0.41
24:6:24:ASN:O	24:6:99:ALA:HA	2.20	0.41
26:8:137:ASN:OD1	26:8:137:ASN:N	2.49	0.41
27:9:56:VAL:CG2	27:9:104:LEU:HB3	2.49	0.41
28:AA:116:LYS:O	28:AA:120:GLU:HG2	2.20	0.41
45:i:123:ALA:HB1	51:E:121:GLY:N	2.35	0.41
1:AR:213:A:H61	1:AR:227:G:C2'	2.33	0.41
1:AR:260:C:H2'	1:AR:261:U:C6	2.54	0.41
1:AR:304:G:H3'	1:AR:304:G:OP2	2.20	0.41
1:AR:324:A:H2'	1:AR:325:A:C8	2.54	0.41
1:AR:796:U:H1'	14:CN:7:LEU:HD23	2.02	0.41
1:AR:1340:G:H2'	1:AR:1341:U:C6	2.54	0.41
1:AR:2405:C:O2	1:AR:2819:A:N1	2.53	0.41
1:AR:3278:C:OP2	1:AR:3278:C:H2'	2.20	0.41
6:CF:209:TYR:C	6:CF:254:ALA:HB2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:96:PRO:HG2	9:CI:99:PRO:CG	2.50	0.41
10:CJ:71:VAL:HG23	10:CJ:235:GLY:HA3	2.01	0.41
10:CJ:130:TYR:CD2	10:CJ:204:ARG:HG2	2.55	0.41
12:CL:149:VAL:O	12:CL:153:ARG:HB2	2.20	0.41
14:CN:47:ALA:HB3	14:CN:49:ARG:HB2	2.02	0.41
14:CN:56:PRO:HG3	14:CN:74:GLY:C	2.45	0.41
23:CW:50:LEU:HD12	23:CW:51:GLY:N	2.36	0.41
24:CX:85:TRP:HH2	24:CX:95:PHE:CE1	2.38	0.41
28:DB:47:GLU:HB2	28:DB:71:PHE:HB3	2.02	0.41
46:p0:50:VAL:O	46:p0:87:VAL:HG23	2.20	0.41
47:A:477:A:H5'	78:f:34:ALA:CB	2.50	0.41
47:A:823:G:H3'	47:A:824:G:H8	1.85	0.41
47:A:1765:A:C8	47:A:1768:G:N2	2.88	0.41
49:C:181:LEU:O	49:C:184:LEU:HB3	2.20	0.41
50:D:179:VAL:O	50:D:179:VAL:HG23	2.20	0.41
53:G:99:MET:O	53:G:100:ASN:HB2	2.20	0.41
55:I:31:SER:O	55:I:34:LEU:HG	2.20	0.41
55:I:56:LYS:HD2	55:I:88:ARG:CZ	2.50	0.41
55:I:101:LYS:HA	55:I:102:PRO:HD3	1.95	0.41
56:J:138:ASN:O	56:J:141:ARG:HG3	2.20	0.41
57:K:129:ILE:HG12	57:K:134:ILE:HD11	1.99	0.41
58:L:38:LYS:O	58:L:41:TYR:HB2	2.20	0.41
60:N:58:LEU:O	60:N:87:PRO:HB3	2.20	0.41
62:P:117:ASP:OD1	62:P:117:ASP:C	2.63	0.41
64:R:123:ARG:HH11	64:R:124:PRO:HD2	1.85	0.41
68:V:93:LEU:HD23	68:V:93:LEU:HA	1.70	0.41
75:c:36:LYS:HA	75:c:43:ILE:CG2	2.49	0.41
78:f:31:LYS:O	78:f:35:TYR:N	2.42	0.41
80:h:40:LYS:HG2	80:h:66:HIS:O	2.19	0.41
80:h:152:SER:OG	80:h:153:GLN:N	2.53	0.41
47:sR:20:G:H5'	47:sR:571:G:C8	2.55	0.41
47:sR:38:C:H2'	47:sR:39:A:H5'	2.01	0.41
47:sR:51:A:OP1	81:sR:1924:OHX:N1	2.54	0.41
47:sR:359:A:N6	71:d3:39:LYS:HE2	2.35	0.41
47:sR:449:C:H2'	47:sR:450:U:H6	1.86	0.41
47:sR:480:G:C4	47:sR:509:G:C2	3.09	0.41
47:sR:542:A:H1'	47:sR:543:C:OP1	2.20	0.41
47:sR:542:A:OP1	47:sR:542:A:H3'	2.20	0.41
47:sR:583:C:OP1	81:sR:1906:OHX:N6	2.53	0.41
47:sR:819:G:N1	47:sR:852:C:N3	2.49	0.41
47:sR:1451:C:H2'	47:sR:1452:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1642:G:O6	81:sR:1903:OHX:N2	2.53	0.41
80:Rb:305:TYR:CE1	80:Rb:311:ARG:HD2	2.55	0.41
48:s0:60:ALA:HB2	48:s0:160:ILE:HD11	2.02	0.41
50:s2:53:ILE:HA	50:s2:72:LEU:HD22	2.01	0.41
51:s3:178:ARG:HA	51:s3:178:ARG:HD3	1.83	0.41
51:s3:197:THR:O	51:s3:197:THR:OG1	2.38	0.41
52:s4:141:THR:OG1	52:s4:143:ASP:OD1	2.37	0.41
54:s6:68:LEU:HA	54:s6:68:LEU:HD22	1.50	0.41
54:s6:175:ILE:H	54:s6:175:ILE:HG12	1.69	0.41
54:s6:208:TYR:CE2	54:s6:212:LEU:HD12	2.55	0.41
55:s7:41:LEU:HB3	55:s7:70:PHE:HE1	1.80	0.41
55:s7:62:VAL:HG11	55:s7:67:LEU:HD12	2.02	0.41
55:s7:105:THR:HG23	55:s7:106:SER:H	1.85	0.41
56:s8:99:ALA:HA	56:s8:168:CYS:SG	2.59	0.41
56:s8:189:LEU:O	56:s8:193:LEU:HB2	2.20	0.41
57:s9:32:GLY:HA3	78:e0:40:TYR:CG	2.55	0.41
57:s9:65:LYS:H	57:s9:70:LEU:HD21	1.84	0.41
66:c8:23:ASP:O	66:c8:26:ILE:HD12	2.20	0.41
67:c9:93:HIS:O	67:c9:94:ILE:HD13	2.20	0.41
70:d2:28:ARG:HA	70:d2:29:PRO:HA	1.83	0.41
71:d3:44:GLY:H	71:d3:78:LYS:NZ	2.18	0.41
71:d3:83:VAL:HG21	71:d3:122:PHE:CE1	2.55	0.41
72:d4:83:LYS:O	72:d4:91:LEU:HD21	2.20	0.41
1:1:353:G:O2'	1:1:364:G:O6	2.29	0.41
1:1:899:U:O4	81:1:4099:OHX:N3	2.54	0.41
1:1:1109:U:H2'	1:1:1110:U:C6	2.55	0.41
1:1:1166:G:O6	81:1:3401:OHX:N6	2.52	0.41
1:1:1688:U:H2'	1:1:1689:U:H6	1.85	0.41
1:1:2662:G:C4	1:1:2663:G:C8	3.09	0.41
1:1:2748:A:H1'	7:m:36:LEU:HD23	2.02	0.41
1:1:3218:A:O2'	1:1:3278:C:H5	2.03	0.41
1:1:3299:A:H2	1:1:3315:G:H22	1.66	0.41
3:4:81:U:O2'	3:4:83:C:OP2	2.38	0.41
3:4:140:G:H2'	3:4:141:C:O4'	2.20	0.41
5:k:98:GLY:HA2	17:w:149:TYR:CE1	2.55	0.41
7:m:151:GLN:OE1	7:m:152:ARG:N	2.53	0.41
9:o:60:ARG:HA	9:o:63:ILE:HD12	2.01	0.41
9:o:77:VAL:HG11	21:0:59:VAL:HA	2.02	0.41
9:o:83:LEU:HD11	9:o:116:PHE:HB3	2.02	0.41
12:r:76:MET:HE1	12:r:138:VAL:CG1	2.50	0.41
13:s:54:VAL:HG23	13:s:57:PHE:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:s:100:GLY:HA3	13:s:154:THR:OG1	2.20	0.41
13:s:153:LYS:HG3	13:s:154:THR:H	1.85	0.41
14:t:35:ARG:HB3	14:t:39:ARG:HH12	1.84	0.41
15:u:22:LEU:HD22	15:u:94:TRP:CH2	2.54	0.41
20:z:134:HIS:CE1	20:z:137:ALA:HB2	2.55	0.41
23:5:15:PHE:HB2	23:5:65:VAL:HG22	2.02	0.41
28:AA:58:GLY:O	28:AA:62:VAL:HG13	2.20	0.41
36:AI:28:LEU:O	36:AI:32:LYS:HG3	2.20	0.41
38:AK:54:LYS:O	38:AK:58:THR:HG23	2.19	0.41
43:AP:12:CYS:SG	43:AP:79:THR:OG1	2.78	0.41
44:AQ:52:ALA:HB1	44:AQ:68:ALA:O	2.19	0.41
45:i:103:LYS:HA	45:i:106:VAL:HG22	2.03	0.41
1:AR:26:A:H2'	1:AR:27:C:H6	1.85	0.41
1:AR:116:A:OP2	16:CP:2:GLY:HA3	2.20	0.41
1:AR:308:A:H5'	1:AR:2223:A:O2'	2.19	0.41
1:AR:391:A:H2'	1:AR:392:G:O4'	2.20	0.41
1:AR:717:C:H2'	1:AR:718:G:O4'	2.20	0.41
1:AR:767:U:C2	1:AR:768:C:C6	3.08	0.41
1:AR:2352:A:H2'	1:AR:2353:G:H8	1.83	0.41
1:AR:2537:U:HO2'	1:AR:2538:U:C5'	2.31	0.41
1:AR:2655:U:H2'	43:DQ:3:ASN:O	2.19	0.41
1:AR:2737:C:H4'	22:CV:68:THR:OG1	2.20	0.41
1:AR:2751:G:O6	81:AR:3645:OHX:N3	2.53	0.41
1:AR:2775:U:H1'	29:DC:58:MET:CE	2.43	0.41
1:AR:3322:A:H2'	1:AR:3323:A:H8	1.82	0.41
3:AT:7:U:H2'	3:AT:8:C:H6	1.85	0.41
4:CD:223:SER:O	4:CD:223:SER:OG	2.32	0.41
5:CE:89:VAL:HG22	5:CE:105:VAL:HG22	2.01	0.41
10:CJ:158:ASP:HB3	10:CJ:159:PRO:HD3	2.01	0.41
14:CN:50:PRO:HD2	36:DJ:116:TYR:CE2	2.55	0.41
19:CS:180:ARG:O	81:CS:201:OHX:N5	2.53	0.41
24:CX:74:MET:HE2	24:CX:74:MET:HB2	1.83	0.41
25:CY:49:ILE:HD13	25:CY:49:ILE:HA	1.86	0.41
35:DI:79:SER:O	35:DI:80:ARG:HD2	2.21	0.41
36:DJ:85:THR:O	36:DJ:89:ARG:HG3	2.20	0.41
39:DM:64:LYS:HZ1	39:DM:68:SER:HB3	1.85	0.41
43:DQ:2:VAL:N	43:DQ:90:HIS:O	2.54	0.41
47:A:330:G:H2'	47:A:331:A:C8	2.56	0.41
47:A:505:A:H3'	47:A:506:A:C5'	2.50	0.41
47:A:795:U:C5	47:A:796:A:C8	3.08	0.41
47:A:1144:U:H2'	47:A:1145:U:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1332:C:H4'	51:E:203:PRO:HG2	2.02	0.41
47:A:1483:A:H2'	47:A:1484:G:C8	2.55	0.41
47:A:1495:C:OP1	81:A:1973:OHX:N1	2.53	0.41
47:A:1578:U:O2'	47:A:1579:U:H5'	2.20	0.41
48:B:20:ALA:CB	48:B:172:LEU:HD22	2.51	0.41
48:B:76:ILE:HA	48:B:98:ILE:O	2.20	0.41
48:B:141:ILE:O	48:B:141:ILE:HG13	2.21	0.41
52:F:79:ASP:HB3	52:F:82:TYR:HB2	2.02	0.41
52:F:159:THR:HG22	52:F:160:VAL:N	2.34	0.41
55:I:16:LEU:O	55:I:20:VAL:HG22	2.20	0.41
57:K:134:ILE:HD12	57:K:134:ILE:N	2.36	0.41
58:L:14:TYR:CD1	58:L:14:TYR:C	2.98	0.41
62:P:24:ASN:O	62:P:25:ASP:HB2	2.21	0.41
62:P:42:VAL:CG2	62:P:46:MET:HE2	2.43	0.41
65:S:115:LEU:HD12	65:S:116:LYS:O	2.21	0.41
72:Z:58:PHE:CE1	72:Z:72:PHE:CD1	3.08	0.41
80:h:69:GLN:HG2	80:h:111:MET:HE3	2.03	0.41
80:h:123:ILE:HG22	80:h:133:VAL:HG12	2.02	0.41
80:h:124:SER:OG	80:h:132:LYS:HB2	2.20	0.41
47:sR:613:G:H4'	47:sR:614:C:OP1	2.19	0.41
47:sR:1475:A:H2'	47:sR:1476:C:C6	2.55	0.41
47:sR:1579:U:OP1	81:sR:2022:OHX:N1	2.53	0.41
80:Rb:74:THR:HG22	80:Rb:79:TYR:O	2.21	0.41
80:Rb:124:SER:O	80:Rb:131:ILE:HG23	2.21	0.41
80:Rb:318:ALA:O	80:Rb:319:ASN:HB3	2.20	0.41
48:s0:144:ILE:HD12	48:s0:158:VAL:HB	2.03	0.41
50:s2:59:HIS:C	69:d1:15:ARG:HH21	2.28	0.41
50:s2:181:SER:OG	50:s2:184:VAL:HG12	2.20	0.41
52:s4:97:GLU:OE1	52:s4:113:ARG:NH1	2.50	0.41
52:s4:121:TYR:CD2	52:s4:161:LYS:HG3	2.55	0.41
53:s5:171:ALA:O	53:s5:174:LEU:HD12	2.19	0.41
54:s6:21:GLU:HA	54:s6:24:ILE:CG1	2.50	0.41
57:s9:149:ARG:HD2	57:s9:149:ARG:H	1.85	0.41
61:c3:26:PHE:CD2	61:c3:66:ILE:HD13	2.56	0.41
63:c5:13:LYS:HE3	63:c5:13:LYS:HB2	1.81	0.41
1:1:27:C:H1'	1:1:328:U:H1'	2.02	0.41
1:1:368:G:OP1	81:1:4091:OHX:N6	2.53	0.41
1:1:508:U:H2'	1:1:509:U:C6	2.55	0.41
1:1:780:A:O4'	19:y:162:ALA:HA	2.20	0.41
1:1:875:G:C2	1:1:876:A:C8	3.09	0.41
1:1:1101:G:OP2	9:o:196:LYS:HE2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1306:G:C5	17:w:62:THR:HA	2.55	0.41
1:1:1456:A:N6	1:1:1477:A:H4'	2.36	0.41
1:1:1672:U:H1'	1:1:1776:G:N2	2.35	0.41
1:1:1765:U:C6	20:z:43:LYS:HD3	2.55	0.41
1:1:2501:U:P	1:1:2501:U:H6	2.43	0.41
1:1:2611:U:H2'	1:1:2612:U:H6	1.82	0.41
2:3:60:G:H2'	2:3:61:G:C8	2.55	0.41
8:n:71:VAL:HG23	8:n:72:ASN:N	2.35	0.41
10:p:134:TYR:CD1	10:p:190:VAL:HG21	2.54	0.41
13:s:96:PHE:CD2	13:s:160:VAL:HG12	2.56	0.41
14:t:175:SER:O	14:t:179:PHE:HD1	2.03	0.41
23:5:49:ASN:O	23:5:50:LEU:C	2.64	0.41
23:5:95:PHE:CD1	23:5:96:VAL:N	2.88	0.41
23:5:105:LEU:HD12	23:5:105:LEU:HA	1.90	0.41
27:9:56:VAL:HG21	27:9:104:LEU:HD13	2.01	0.41
31:AD:41:LEU:CB	31:AD:92:ILE:HD11	2.48	0.41
38:AK:51:ALA:HA	38:AK:54:LYS:HG2	2.02	0.41
1:AR:277:G:H2'	1:AR:278:U:H6	1.84	0.41
1:AR:283:G:O6	1:AR:304:G:H1'	2.19	0.41
1:AR:499:G:H2'	1:AR:500:C:C6	2.55	0.41
1:AR:609:G:H8	6:CF:310:THR:HG22	1.86	0.41
1:AR:962:A:O2'	1:AR:963:G:H5'	2.21	0.41
1:AR:1216:C:C2	1:AR:1217:A:C8	3.08	0.41
1:AR:1349:G:H2'	1:AR:1350:A:C4	2.55	0.41
1:AR:1577:G:H2'	1:AR:1578:C:C6	2.54	0.41
1:AR:1596:C:H2'	1:AR:1597:C:H6	1.80	0.41
1:AR:1857:C:N4	1:AR:1858:A:N1	2.68	0.41
1:AR:1936:A:H2'	1:AR:1937:U:O4'	2.20	0.41
1:AR:2289:U:H2'	1:AR:2290:C:C6	2.54	0.41
1:AR:3000:A:H2'	1:AR:3001:C:H6	1.86	0.41
1:AR:3134:A:OP1	81:AR:3426:OHX:N3	2.53	0.41
1:AR:3251:U:H2'	1:AR:3252:G:C8	2.55	0.41
2:AS:48:U:H1'	7:CG:222:LEU:HD23	2.03	0.41
5:CE:222:LYS:HB3	5:CE:222:LYS:HE3	1.90	0.41
6:CF:5:GLN:HA	6:CF:20:LEU:O	2.20	0.41
10:CJ:111:LYS:NZ	10:CJ:125:ALA:HB1	2.36	0.41
12:CL:47:PRO:HB3	12:CL:171:TRP:CZ2	2.55	0.41
12:CL:76:MET:SD	12:CL:148:VAL:HG12	2.61	0.41
12:CL:135:ILE:O	12:CL:136:PHE:HD1	2.02	0.41
22:CV:143:THR:O	22:CV:146:ASN:N	2.32	0.41
31:DE:17:VAL:HG22	31:DE:98:SER:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DF:8:VAL:HG12	32:DF:9:THR:H	1.86	0.41
34:DH:60:ARG:HD3	34:DH:60:ARG:N	2.34	0.41
36:DJ:7:TYR:HA	36:DJ:10:ARG:NH1	2.35	0.41
37:DK:11:LEU:HD12	37:DK:11:LEU:N	2.34	0.41
40:DN:41:ARG:NH1	40:DN:41:ARG:HG2	2.35	0.41
47:A:504:U:H2'	47:A:505:A:H4'	2.01	0.41
47:A:566:C:O2'	78:f:10:ARG:HD2	2.20	0.41
47:A:711:U:H4'	47:A:712:G:OP1	2.20	0.41
47:A:1071:U:C2	47:A:1072:C:C5	3.08	0.41
47:A:1354:G:C5	47:A:1355:C:C5	3.08	0.41
47:A:1459:C:OP2	66:T:138:THR:OG1	2.35	0.41
47:A:1500:C:P	67:U:122:ARG:HH12	2.36	0.41
47:A:1611:A:C5	47:A:1612:U:C5	3.09	0.41
47:A:1627:U:O2'	74:b:88:SER:HB2	2.20	0.41
49:C:26:ARG:HB3	49:C:26:ARG:HH11	1.84	0.41
52:F:114:ILE:HD11	52:F:119:ALA:HA	2.02	0.41
52:F:212:ASP:C	52:F:214:LEU:H	2.28	0.41
53:G:124:LEU:HD22	73:a:58:ARG:NE	2.28	0.41
55:I:184:GLU:HG2	55:I:185:ILE:N	2.35	0.41
58:L:31:LYS:HA	58:L:37:THR:O	2.20	0.41
60:N:67:THR:O	60:N:71:ILE:HD13	2.19	0.41
61:O:37:ILE:CD1	61:O:74:ILE:HD12	2.50	0.41
61:O:67:THR:OG1	61:O:69:ASN:O	2.27	0.41
63:Q:37:ALA:HB1	63:Q:41:VAL:CG1	2.50	0.41
70:X:15:ASN:HD21	70:X:72:CYS:N	2.16	0.41
71:Y:33:LEU:HD23	71:Y:33:LEU:HA	1.74	0.41
80:h:144:LEU:HD12	80:h:181:TRP:CD2	2.55	0.41
80:h:155:ARG:HD3	80:h:155:ARG:HA	1.87	0.41
47:sR:542:A:OP1	47:sR:544:A:C5	2.73	0.41
47:sR:885:G:P	49:s1:136:ARG:HH11	2.43	0.41
47:sR:1234:A:OP2	47:sR:1245:G:O2'	2.27	0.41
47:sR:1546:G:OP1	66:c8:123:ARG:NH1	2.54	0.41
47:sR:1729:C:H2'	47:sR:1730:A:O4'	2.21	0.41
47:sR:1738:U:H2'	47:sR:1739:C:H6	1.85	0.41
47:sR:1795:U:H3'	74:d6:5:ARG:NH2	2.35	0.41
80:Rb:65:SER:HB2	80:Rb:86:ASP:CB	2.50	0.41
80:Rb:128:ASP:OD1	80:Rb:130:THR:HG22	2.20	0.41
48:s0:34:GLU:N	48:s0:35:PRO:HD2	2.34	0.41
48:s0:182:LEU:HD22	48:s0:186:GLY:HA3	2.02	0.41
53:s5:27:THR:HG23	64:c6:27:GLY:O	2.21	0.41
53:s5:114:ILE:HA	53:s5:117:THR:OG1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:s7:148:LYS:H	55:s7:148:LYS:HG2	1.63	0.41
65:c7:71:PHE:CE1	65:c7:73:LEU:HB2	2.55	0.41
71:d3:63:GLN:HA	71:d3:65:ASN:H	1.86	0.41
73:d5:47:TYR:O	73:d5:50:ILE:HG12	2.20	0.41
76:d8:9:LEU:HD12	76:d8:9:LEU:HA	1.91	0.41
1:1:123:A:C6	1:1:150:A:C5	3.09	0.41
1:1:677:A:H4'	1:1:678:G:O5'	2.20	0.41
1:1:1060:U:O2	22:2:101:CYS:HB2	2.19	0.41
1:1:1117:G:OP1	30:AC:4:SER:HB2	2.21	0.41
1:1:1860:G:H1'	20:z:58:HIS:HE1	1.86	0.41
1:1:2129:U:H2'	1:1:2130:G:C8	2.55	0.41
1:1:2383:C:OP2	17:w:85:ARG:NH2	2.52	0.41
1:1:3024:A:H4'	11:q:97:PHE:CE2	2.56	0.41
1:1:3254:G:H2'	1:1:3255:U:O4'	2.20	0.41
3:4:26:U:H2'	3:4:27:U:C6	2.56	0.41
10:p:244:ALA:HB3	10:p:245:LYS:HE2	2.03	0.41
13:s:106:ILE:O	13:s:106:ILE:HD12	2.21	0.41
14:t:157:ARG:O	29:AB:99:ALA:N	2.54	0.41
16:v:16:SER:HB2	37:AJ:48:ALA:HB1	2.01	0.41
19:y:59:ARG:O	19:y:59:ARG:HG3	2.21	0.41
19:y:157:PRO:HG3	29:AB:47:LYS:HB2	2.02	0.41
22:2:8:ARG:HE	22:2:8:ARG:HB3	1.71	0.41
23:5:89:LEU:HB3	23:5:93:ILE:HD13	2.03	0.41
28:AA:61:LYS:H	28:AA:61:LYS:HD2	1.84	0.41
28:AA:67:LYS:HA	28:AA:119:GLU:OE1	2.20	0.41
29:AB:73:LEU:HD23	29:AB:112:ILE:HD12	2.02	0.41
31:AD:17:VAL:HA	31:AD:20:SER:HB3	2.01	0.41
33:AF:109:LEU:HD12	33:AF:109:LEU:HA	1.74	0.41
35:AH:81:CYS:O	35:AH:82:ALA:HB3	2.20	0.41
1:AR:156:G:OP2	37:DK:27:SER:OG	2.34	0.41
1:AR:270:U:O2'	1:AR:318:A:H1'	2.21	0.41
1:AR:616:G:H2'	1:AR:617:G:H8	1.85	0.41
1:AR:618:C:H2'	1:AR:619:A:C8	2.55	0.41
1:AR:627:U:O4	81:AR:3483:OHX:N1	2.54	0.41
1:AR:633:C:H2'	1:AR:634:C:O4'	2.21	0.41
1:AR:916:G:H4'	1:AR:917:A:O5'	2.20	0.41
1:AR:916:G:N7	1:AR:924:G:C5	2.89	0.41
1:AR:978:G:O2'	1:AR:979:U:C2	2.72	0.41
1:AR:1239:C:N4	1:AR:1249:G:H1	2.17	0.41
1:AR:1296:C:H2'	1:AR:1297:C:H6	1.84	0.41
1:AR:1305:U:N1	5:CE:257:PRO:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1497:C:H2'	1:AR:1498:A:C8	2.55	0.41
1:AR:3094:A:H2'	1:AR:3095:U:H6	1.86	0.41
3:AT:56:G:H2'	3:AT:57:C:C6	2.54	0.41
3:AT:66:A:H2'	3:AT:67:U:H6	1.85	0.41
3:AT:81:U:HO2'	3:AT:82:U:P	2.43	0.41
21:CU:23:LYS:HA	22:CV:146:ASN:OD1	2.20	0.41
22:CV:8:ARG:O	22:CV:11:THR:OG1	2.30	0.41
24:CX:46:LEU:HG	24:CX:47:ASN:ND2	2.36	0.41
31:DE:84:LEU:HD23	31:DE:84:LEU:HA	1.91	0.41
35:DI:5:VAL:HG22	35:DI:6:THR:H	1.86	0.41
35:DI:72:VAL:HG11	35:DI:74:ARG:HH21	1.85	0.41
39:DM:10:GLN:O	39:DM:14:LEU:HG	2.19	0.41
46:p0:30:VAL:HG21	46:p0:38:MET:HE1	2.02	0.41
47:A:51:A:OP2	81:A:1929:OHX:N3	2.54	0.41
47:A:116:U:O2	47:A:333:A:H2	2.03	0.41
47:A:633:U:H2'	47:A:634:G:O4'	2.21	0.41
47:A:686:C:H2'	47:A:687:G:H8	1.85	0.41
47:A:992:A:H2	47:A:1012:U:N3	2.12	0.41
47:A:1219:A:H3'	47:A:1220:C:C6	2.56	0.41
47:A:1253:U:H4'	79:g:143:LYS:N	2.36	0.41
47:A:1357:A:C2	47:A:1358:G:C5	3.08	0.41
47:A:1433:G:H2'	47:A:1434:U:H6	1.86	0.41
48:B:31:VAL:HG13	48:B:31:VAL:O	2.21	0.41
48:B:77:SER:OG	48:B:79:ARG:O	2.39	0.41
49:C:32:ILE:CB	49:C:43:VAL:HG21	2.39	0.41
49:C:179:SER:N	49:C:187:LYS:HZ1	2.18	0.41
49:C:181:LEU:O	49:C:181:LEU:HD23	2.20	0.41
52:F:181:VAL:HB	52:F:225:VAL:HG23	2.02	0.41
53:G:156:ARG:NH1	53:G:157:ARG:O	2.53	0.41
53:G:157:ARG:O	53:G:225:ARG:NH2	2.52	0.41
57:K:105:LEU:O	57:K:111:THR:HG21	2.21	0.41
57:K:146:PHE:CD2	57:K:148:VAL:HG12	2.55	0.41
60:N:28:LEU:HD12	60:N:32:LEU:HD22	2.02	0.41
60:N:124:LYS:CD	60:N:125:ASN:HB3	2.51	0.41
63:Q:106:GLU:O	63:Q:111:MET:HE1	2.21	0.41
64:R:131:GLY:HA2	64:R:138:PHE:CD1	2.56	0.41
67:U:105:LEU:HD11	67:U:122:ARG:HD2	2.01	0.41
70:X:16:ASN:O	70:X:20:THR:HG23	2.20	0.41
70:X:32:LYS:O	70:X:35:ILE:HG12	2.21	0.41
70:X:57:ARG:HD3	75:c:26:GLN:HG3	2.02	0.41
73:a:41:ILE:HA	73:a:75:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:b:35:ALA:O	74:b:37:LYS:HE3	2.19	0.41
76:d:40:ILE:HD13	76:d:40:ILE:HA	1.79	0.41
78:f:50:VAL:O	78:f:52:GLY:N	2.54	0.41
47:sR:79:C:H1'	54:s6:174:LYS:HB2	2.03	0.41
47:sR:209:U:H2'	47:sR:210:A:C8	2.55	0.41
47:sR:752:A:O2'	47:sR:753:A:H5'	2.20	0.41
47:sR:1081:A:H8	47:sR:1081:A:OP2	2.04	0.41
47:sR:1164:G:O2'	47:sR:1612:U:O2	2.36	0.41
47:sR:1572:G:H2'	47:sR:1572:G:N3	2.35	0.41
47:sR:1592:A:H2'	47:sR:1593:A:C8	2.55	0.41
80:Rb:174:ASN:HB3	80:Rb:198:ASN:OD1	2.20	0.41
80:Rb:201:THR:OG1	80:Rb:202:LEU:N	2.53	0.41
48:s0:109:ASN:C	48:s0:109:ASN:HD22	2.28	0.41
51:s3:14:ASP:O	51:s3:17:PHE:HB3	2.20	0.41
54:s6:3:LEU:HD23	54:s6:111:LEU:HD11	2.01	0.41
55:s7:160:GLN:HA	55:s7:163:ASP:CG	2.46	0.41
56:s8:22:ARG:CD	56:s8:25:ARG:HD2	2.51	0.41
57:s9:110:GLN:HG3	57:s9:126:ARG:HG2	2.01	0.41
67:c9:33:TYR:CD1	67:c9:33:TYR:C	2.99	0.41
68:d0:26:LEU:HD23	68:d0:26:LEU:HA	1.81	0.41
68:d0:36:ASN:OD1	68:d0:37:VAL:HG13	2.21	0.41
72:d4:28:LEU:HD12	72:d4:28:LEU:N	2.36	0.41
1:1:828:A:H2'	1:1:829:U:C6	2.55	0.41
1:1:839:C:H4'	1:1:1724:U:C2'	2.50	0.41
1:1:1192:C:N4	1:1:1302:A:OP2	2.53	0.41
1:1:1245:A:H3'	1:1:1246:G:H5''	2.03	0.41
1:1:2100:A:H5''	1:1:2100:A:N3	2.35	0.41
1:1:3088:G:H2'	1:1:3089:C:C6	2.55	0.41
2:3:73:C:H42	21:0:19:VAL:HG11	1.85	0.41
4:j:35:ALA:HA	10:p:36:ILE:HD13	2.01	0.41
4:j:132:ASN:ND2	4:j:151:PRO:HB3	2.36	0.41
6:l:25:VAL:O	6:l:127:ALA:HB2	2.20	0.41
7:m:40:HIS:NE2	22:2:69:LYS:HB2	2.36	0.41
7:m:233:ALA:O	7:m:235:SER:O	2.38	0.41
7:m:259:LYS:O	7:m:265:TYR:OH	2.19	0.41
11:q:18:VAL:HG12	11:q:27:VAL:HG22	2.03	0.41
16:v:119:TYR:CE2	16:v:131:GLU:HB2	2.56	0.41
17:w:88:VAL:O	17:w:90:HIS:N	2.54	0.41
17:w:108:ILE:HD12	17:w:160:ARG:NH1	2.36	0.41
21:0:79:VAL:HG21	21:0:110:MET:HE2	2.02	0.41
28:AA:9:LYS:HE2	28:AA:9:LYS:HB2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:159:A:H2'	1:AR:160:G:C8	2.56	0.41
1:AR:1386:A:N3	6:CF:180:LYS:HA	2.35	0.41
1:AR:1410:U:OP1	81:AR:3527:OHX:N4	2.54	0.41
1:AR:1764:U:C5	1:AR:1765:U:H1'	2.56	0.41
1:AR:2748:A:H1'	7:CG:36:LEU:HD23	2.01	0.41
1:AR:3269:U:N3	8:CH:130:ILE:HG23	2.36	0.41
1:AR:3333:G:N2	1:AR:3369:G:O2'	2.54	0.41
81:AR:3508:OHX:N5	29:DC:24:LYS:O	2.54	0.41
2:AS:18:C:P	13:CM:150:ASN:HD22	2.44	0.41
2:AS:107:C:H2'	2:AS:108:A:H8	1.86	0.41
4:CD:234:LYS:HG2	4:CD:238:ILE:HD12	2.03	0.41
6:CF:10:SER:OG	6:CF:14:GLU:HB2	2.21	0.41
17:CQ:23:VAL:CG1	17:CQ:84:LEU:HD11	2.50	0.41
18:CR:24:VAL:HG12	18:CR:86:LYS:HG2	2.02	0.41
18:CR:64:ASN:C	18:CR:67:ILE:HG12	2.46	0.41
19:CS:176:ARG:HB2	29:DC:53:PHE:O	2.21	0.41
22:CV:38:ASP:O	22:CV:64:VAL:HG23	2.20	0.41
23:CW:33:TYR:CE2	23:CW:63:VAL:HG11	2.49	0.41
23:CW:43:VAL:O	23:CW:43:VAL:HG13	2.20	0.41
37:DK:65:GLY:HA3	37:DK:67:LYS:HZ3	1.86	0.41
39:DM:10:GLN:HA	39:DM:13:GLU:CG	2.50	0.41
39:DM:11:PHE:O	39:DM:15:THR:HG23	2.20	0.41
47:A:60:U:O4'	47:A:453:U:H5''	2.21	0.41
47:A:158:U:O2'	47:A:160:C:OP2	2.24	0.41
47:A:532:U:H2'	47:A:533:U:O4'	2.21	0.41
47:A:741:C:O2	55:I:107:ARG:CZ	2.68	0.41
47:A:1472:C:H4'	47:A:1473:U:H5'	2.02	0.41
47:A:1755:A:C2	47:A:1756:A:C8	3.09	0.41
48:B:148:ASP:HB2	48:B:164:ASN:HD21	1.85	0.41
49:C:69:CYS:HB3	49:C:72:ASP:HB2	2.02	0.41
49:C:128:LYS:O	49:C:176:VAL:HG12	2.21	0.41
49:C:157:GLN:C	49:C:159:SER:H	2.29	0.41
51:E:101:GLN:HG3	51:E:126:VAL:CG2	2.50	0.41
52:F:62:LYS:HD2	52:F:80:THR:OG1	2.21	0.41
59:M:76:VAL:HG21	59:M:87:ARG:HB2	2.02	0.41
62:P:19:ILE:O	62:P:83:ILE:HA	2.21	0.41
66:T:88:ARG:NH2	66:T:112:ASP:OD2	2.53	0.41
67:U:16:ASN:O	67:U:19:ALA:HB3	2.21	0.41
73:a:61:SER:HB3	73:a:99:ALA:O	2.20	0.41
75:c:37:CYS:HA	75:c:77:THR:HG23	2.02	0.41
79:g:108:VAL:HG12	79:g:114:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:231:U:C2'	47:sR:232:U:H5''	2.51	0.41
47:sR:452:A:H3'	47:sR:453:U:C5	2.56	0.41
47:sR:560:U:H2'	47:sR:561:G:H8	1.85	0.41
47:sR:969:C:H4'	47:sR:1104:U:O2'	2.21	0.41
47:sR:1160:A:H2'	47:sR:1161:C:H6	1.80	0.41
47:sR:1354:G:C5	47:sR:1355:C:C5	3.09	0.41
47:sR:1358:G:H1'	67:c9:129:GLN:HG2	2.03	0.41
47:sR:1449:U:H2'	47:sR:1450:U:C6	2.55	0.41
51:s3:5:ILE:HD12	51:s3:5:ILE:HG23	1.82	0.41
53:s5:27:THR:HG21	64:c6:29:ILE:H	1.86	0.41
54:s6:155:ASP:OD1	54:s6:155:ASP:N	2.44	0.41
55:s7:37:GLU:HG2	55:s7:38:LEU:CD1	2.51	0.41
56:s8:34:ALA:HB2	56:s8:56:ARG:CD	2.48	0.41
63:c5:54:ALA:O	63:c5:58:LYS:HB2	2.20	0.41
64:c6:140:LYS:HG3	64:c6:141:SER:H	1.85	0.41
66:c8:57:ARG:HD2	66:c8:57:ARG:N	2.35	0.41
71:d3:14:LYS:HA	71:d3:17:VAL:HG22	2.03	0.41
77:d9:30:LEU:HD11	77:d9:38:ILE:N	2.36	0.41
1:1:275:U:H2'	1:1:276:U:H6	1.84	0.41
1:1:415:G:OP2	81:1:4140:OHX:N4	2.54	0.41
1:1:824:C:H2'	1:1:825:U:C6	2.56	0.41
1:1:873:C:H4'	1:1:874:U:OP2	2.21	0.41
1:1:913:A:H2	1:1:2134:G:N3	2.18	0.41
1:1:948:C:H2'	1:1:949:C:C6	2.56	0.41
1:1:1683:A:H2'	1:1:1684:U:O4'	2.21	0.41
1:1:2676:A:H4'	1:1:2677:G:O5'	2.19	0.41
1:1:2700:G:O2'	1:1:2705:A:N1	2.41	0.41
1:1:2989:U:H2'	1:1:2990:G:O4'	2.21	0.41
1:1:3106:A:H61	1:1:3128:G:H1'	1.86	0.41
1:1:3296:A:H2'	1:1:3297:U:C6	2.56	0.41
4:j:27:ALA:C	4:j:28:LYS:HG2	2.46	0.41
5:k:17:LEU:HD21	5:k:233:TRP:HH2	1.86	0.41
5:k:107:ALA:HB1	5:k:200:GLU:HG3	2.03	0.41
5:k:153:LYS:HD3	5:k:154:TYR:CZ	2.55	0.41
5:k:346:THR:OG1	5:k:347:SER:N	2.46	0.41
7:m:178:ASN:HA	7:m:183:TRP:CD2	2.55	0.41
9:o:74:SER:HB3	22:2:141:VAL:O	2.20	0.41
12:r:21:ARG:H	12:r:21:ARG:HG3	1.62	0.41
14:t:148:ALA:O	14:t:150:PRO:HD3	2.21	0.41
19:y:81:VAL:CG2	19:y:101:VAL:HG13	2.51	0.41
23:5:15:PHE:HD2	23:5:65:VAL:HG23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:5:33:TYR:CD1	23:5:33:TYR:C	2.97	0.41
23:5:54:VAL:HG12	23:5:67:SER:CB	2.49	0.41
24:6:86:ARG:HB2	24:6:92:PHE:CD1	2.55	0.41
26:8:107:VAL:HG11	26:8:110:VAL:HG22	2.01	0.41
30:AC:58:LYS:O	30:AC:58:LYS:HD3	2.20	0.41
31:AD:74:ASN:OD1	31:AD:74:ASN:N	2.53	0.41
32:AE:71:LEU:HD23	32:AE:71:LEU:HA	1.88	0.41
35:AH:107:GLU:O	35:AH:110:GLU:HB2	2.21	0.41
44:AQ:33:GLN:OE1	44:AQ:49:ARG:NH2	2.54	0.41
1:AR:536:U:H1'	1:AR:559:A:C8	2.56	0.41
1:AR:608:A:H5''	1:AR:609:G:OP2	2.21	0.41
1:AR:1251:A:H2'	1:AR:1252:A:C8	2.48	0.41
1:AR:1305:U:C2	5:CE:257:PRO:HG3	2.56	0.41
1:AR:1488:G:H21	35:DI:12:PRO:CG	2.34	0.41
1:AR:1614:C:H2'	1:AR:1615:C:C6	2.55	0.41
1:AR:1632:A:H2'	1:AR:1633:C:O4'	2.21	0.41
1:AR:2311:G:OP2	81:AR:3478[B]:OHX:N5	2.54	0.41
1:AR:2412:G:H2'	1:AR:2413:A:C8	2.56	0.41
1:AR:2747:A:O2'	1:AR:2748:A:H5'	2.21	0.41
1:AR:2942:C:O2'	81:AR:3554:OHX:N3	2.53	0.41
1:AR:3198:U:H4'	1:AR:3199:G:OP2	2.20	0.41
2:AS:49:G:N7	7:CG:58:LYS:HD2	2.35	0.41
5:CE:114:VAL:HG22	5:CE:163:HIS:CG	2.55	0.41
6:CF:281:ILE:HG13	19:CS:125:ASP:CG	2.46	0.41
6:CF:294:GLU:CD	6:CF:294:GLU:H	2.29	0.41
11:CK:23:ARG:HH11	11:CK:42:ASP:H	1.68	0.41
14:CN:58:VAL:HG12	14:CN:70:ARG:O	2.20	0.41
14:CN:116:LEU:HD23	14:CN:116:LEU:HA	1.85	0.41
14:CN:138:VAL:CG2	36:DJ:118:ILE:HB	2.50	0.41
23:CW:98:THR:OG1	23:CW:99:LYS:N	2.53	0.41
29:DC:105:LEU:HD23	29:DC:105:LEU:C	2.46	0.41
37:DK:52:PRO:HA	37:DK:55:ARG:HB2	2.03	0.41
47:A:702:G:O2'	47:A:703:G:O5'	2.37	0.41
47:A:708:C:O2'	47:A:710:U:H5''	2.21	0.41
47:A:1017:U:H2'	47:A:1018:U:H6	1.85	0.41
47:A:1401:A:OP1	65:S:60:ARG:NH2	2.54	0.41
47:A:1784:C:H2'	47:A:1785:U:H6	1.83	0.41
49:C:107:THR:HG23	62:P:116:GLU:OE2	2.20	0.41
49:C:135:LEU:HD21	49:C:216:LYS:H	1.85	0.41
49:C:194:ASN:HB2	49:C:195:LYS:HZ3	1.86	0.41
50:D:35:TRP:CZ2	50:D:67:GLN:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:E:64:ARG:O	51:E:68:GLU:HG3	2.21	0.41
52:F:133:LYS:H	52:F:133:LYS:HG3	1.53	0.41
55:I:141:ARG:HA	70:X:51:GLU:HG3	2.02	0.41
55:I:173:TYR:CE1	55:I:179:LYS:HB2	2.53	0.41
57:K:45:ILE:N	57:K:45:ILE:HD12	2.36	0.41
57:K:171:ARG:NE	57:K:171:ARG:HA	2.35	0.41
58:L:60:SER:HB3	58:L:65:TYR:CE2	2.52	0.41
58:L:76:LEU:HD23	58:L:76:LEU:H	1.86	0.41
63:Q:44:ARG:NE	63:Q:52:LYS:HE3	2.36	0.41
64:R:38:LEU:HA	64:R:45:ARG:NH1	2.35	0.41
64:R:87:LYS:O	64:R:90:VAL:HG22	2.21	0.41
66:T:5:VAL:HG22	66:T:6:GLN:N	2.36	0.41
66:T:11:PHE:CE2	73:a:41:ILE:HG21	2.56	0.41
66:T:35:ILE:HG22	66:T:102:ALA:HB2	2.02	0.41
74:b:97:PRO:N	74:b:98:PRO:HD2	2.35	0.41
47:sR:199:G:O2'	47:sR:200:A:H8	2.03	0.41
47:sR:448:C:OP2	52:s4:49:ARG:NH1	2.37	0.41
47:sR:1178:G:H2'	47:sR:1179:G:O4'	2.20	0.41
47:sR:1457:C:H4'	66:c8:137:HIS:CD2	2.56	0.41
47:sR:1478:G:C4	47:sR:1479:A:C8	3.08	0.41
47:sR:1742:U:H2'	47:sR:1743:U:H6	1.86	0.41
80:Rb:157:VAL:CG1	80:Rb:168:THR:HB	2.49	0.41
48:s0:10:THR:O	48:s0:13:ASP:N	2.49	0.41
51:s3:162:GLN:O	51:s3:162:GLN:HG3	2.20	0.41
53:s5:48:PHE:O	53:s5:51:VAL:HG12	2.20	0.41
53:s5:224:ASN:O	53:s5:225:ARG:HG3	2.21	0.41
55:s7:9:LEU:CD1	55:s7:18:LEU:HG	2.50	0.41
56:s8:193:LEU:HD12	56:s8:193:LEU:HA	1.91	0.41
57:s9:29:LYS:HD3	57:s9:29:LYS:C	2.46	0.41
57:s9:143:ILE:HG22	57:s9:145:SER:HB3	2.02	0.41
58:c0:23:ALA:O	58:c0:43:ILE:HD11	2.21	0.41
63:c5:10:ARG:HD3	63:c5:10:ARG:HH11	1.52	0.41
66:c8:87:ASN:OD1	66:c8:88:ARG:N	2.54	0.41
73:d5:44:GLN:O	73:d5:44:GLN:HG3	2.21	0.41
1:1:45:A:OP2	16:v:85:THR:HG21	2.21	0.41
1:1:523:A:O2'	21:0:69:PRO:HD2	2.20	0.41
1:1:718:G:H3'	1:1:719:U:C5'	2.50	0.41
1:1:916:G:H4'	1:1:917:A:O5'	2.21	0.41
1:1:985:U:H2'	1:1:986:U:C6	2.55	0.41
1:1:1022:U:H2'	1:1:1023:C:H6	1.85	0.41
1:1:1302:A:C2'	1:1:1303:A:H5''	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1404:G:C6	1:1:1408:G:C6	3.09	0.41
1:1:1635:G:O6	28:AA:17:ARG:HB3	2.21	0.41
1:1:2597:U:H2'	1:1:2598:G:H8	1.86	0.41
1:1:2656:A:C8	1:1:2658:G:C8	3.08	0.41
1:1:2847:A:N7	1:1:2898:G:C6	2.89	0.41
1:1:3163:A:C2'	1:1:3164:C:H5'	2.51	0.41
1:1:3286:G:H5'	1:1:3287:U:OP2	2.21	0.41
1:1:3356:G:H2'	1:1:3357:U:C6	2.56	0.41
5:k:37:ARG:HA	5:k:185:GLY:O	2.21	0.41
6:l:208:VAL:O	6:l:251:THR:HG23	2.20	0.41
7:m:23:ARG:O	7:m:23:ARG:HD2	2.20	0.41
7:m:53:VAL:HA	7:m:61:ILE:O	2.21	0.41
10:p:163:VAL:HB	10:p:166:LEU:HD12	2.01	0.41
11:q:47:LYS:N	15:u:7:VAL:HB	2.32	0.41
12:r:47:PRO:HB3	12:r:171:TRP:CE2	2.56	0.41
12:r:77:THR:HG22	12:r:85:PHE:CZ	2.55	0.41
17:w:124:LEU:HA	17:w:124:LEU:HD23	1.78	0.41
21:0:148:LEU:HD12	21:0:149:LYS:H	1.85	0.41
23:5:43:VAL:HG13	23:5:44:GLU:HB2	2.02	0.41
31:AD:42:ILE:HG22	31:AD:91:SER:HB2	2.03	0.41
31:AD:47:ASN:ND2	31:AD:74:ASN:OD1	2.42	0.41
33:AF:63:THR:O	33:AF:66:LEU:HB2	2.20	0.41
38:AK:5:THR:HA	38:AK:8:PHE:CD2	2.55	0.41
38:AK:28:HIS:CD2	38:AK:31:LYS:HB2	2.55	0.41
1:AR:268:A:O4'	1:AR:270:U:H1'	2.21	0.41
1:AR:836:A:O2'	44:DR:9:GLY:O	2.31	0.41
1:AR:1011:A:H2'	1:AR:1012:G:C8	2.56	0.41
1:AR:1251:A:N3	1:AR:1252:A:C8	2.89	0.41
1:AR:1841:A:H1'	40:DN:45:ARG:HH22	1.85	0.41
1:AR:2244:A:O2'	4:CD:223:SER:HB3	2.21	0.41
1:AR:3287:U:C4	1:AR:3288:G:N7	2.89	0.41
1:AR:3296:A:H2'	1:AR:3297:U:H6	1.86	0.41
1:AR:3386:G:H4'	32:DF:10:ARG:HH12	1.86	0.41
6:CF:185:LYS:HA	6:CF:200:THR:O	2.21	0.41
6:CF:219:LEU:HA	6:CF:219:LEU:HD23	1.83	0.41
7:CG:34:LYS:HE3	22:CV:30:TYR:CE1	2.56	0.41
9:CI:96:PRO:HG2	9:CI:99:PRO:HG3	2.03	0.41
9:CI:232:ARG:O	9:CI:232:ARG:HG3	2.20	0.41
10:CJ:202:GLU:H	10:CJ:202:GLU:HG3	1.64	0.41
18:CR:13:LYS:NZ	18:CR:154:GLU:HG2	2.35	0.41
18:CR:30:ARG:HA	18:CR:119:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:11:GLY:HA2	21:CU:59:VAL:HG23	2.01	0.41
22:CV:66:ASN:ND2	30:DD:34:GLY:O	2.54	0.41
31:DE:96:GLY:C	31:DE:98:SER:H	2.27	0.41
35:DI:62:TYR:O	35:DI:65:VAL:HG12	2.20	0.41
40:DN:21:ARG:HE	40:DN:21:ARG:HB2	1.69	0.41
40:DN:41:ARG:HG2	40:DN:41:ARG:HH11	1.86	0.41
41:DO:127:LEU:HD12	41:DO:127:LEU:HA	1.92	0.41
46:p0:19:LEU:HB2	46:p0:70:LEU:CD2	2.49	0.41
46:p0:48:ARG:HD3	46:p0:90:ASN:HD22	1.86	0.41
47:A:20:G:H5'	47:A:571:G:N7	2.35	0.41
47:A:155:U:H4'	54:H:59:GLN:N	2.35	0.41
47:A:1002:G:N1	47:A:1761:U:OP1	2.41	0.41
47:A:1120:U:C2	47:A:1121:C:C5	3.09	0.41
47:A:1199:G:C4	77:e:40:ARG:HD3	2.56	0.41
47:A:1402:G:H2'	47:A:1403:C:C6	2.56	0.41
49:C:140:ILE:HG12	49:C:142:PHE:CE1	2.55	0.41
51:E:66:ILE:O	51:E:70:THR:HG23	2.21	0.41
52:F:247:SER:OG	52:F:250:GLU:HG3	2.21	0.41
55:I:24:PHE:O	55:I:26:GLU:N	2.53	0.41
55:I:104:ARG:HH11	55:I:104:ARG:HG2	1.86	0.41
55:I:121:VAL:O	55:I:125:ILE:HD13	2.20	0.41
57:K:162:SER:C	57:K:167:ALA:HB2	2.46	0.41
65:S:6:THR:HG22	65:S:8:THR:N	2.33	0.41
65:S:21:TYR:HE2	65:S:61:ILE:CD1	2.33	0.41
66:T:41:ARG:HH11	66:T:41:ARG:HG2	1.86	0.41
67:U:45:MET:HE3	67:U:45:MET:HB3	1.94	0.41
67:U:54:PHE:HE1	67:U:104:VAL:HG23	1.86	0.41
72:Z:104:SER:HB3	72:Z:107:GLN:HG3	2.03	0.41
73:a:97:LYS:HA	73:a:97:LYS:HD3	1.98	0.41
76:d:58:GLU:CD	76:d:58:GLU:H	2.29	0.41
78:f:4:VAL:HG12	78:f:4:VAL:O	2.21	0.41
80:h:132:LYS:HE3	80:h:140:CYS:SG	2.61	0.41
47:sR:177:U:O2'	47:sR:178:U:H6	2.04	0.41
47:sR:208:U:H1'	56:s8:178:ARG:NE	2.36	0.41
47:sR:217:A:C8	47:sR:218:A:C8	3.09	0.41
47:sR:1067:C:H2'	47:sR:1068:C:C6	2.55	0.41
47:sR:1079:U:H2'	47:sR:1080:U:H6	1.85	0.41
47:sR:1166:A:H2'	47:sR:1167:G:O4'	2.19	0.41
47:sR:1275:A:N1	47:sR:1438:G:C4	2.89	0.41
47:sR:1380:U:H2'	47:sR:1381:U:C6	2.55	0.41
47:sR:1417:A:H2'	47:sR:1418:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:sR:1496:U:H4'	47:sR:1519:U:O2'	2.21	0.41
80:Rb:177:MET:SD	80:Rb:177:MET:C	3.04	0.41
80:Rb:192:PHE:CD1	80:Rb:192:PHE:N	2.89	0.41
53:s5:136:ALA:O	53:s5:140:THR:HG23	2.21	0.41
54:s6:116:LYS:HG3	54:s6:117:GLY:N	2.35	0.41
54:s6:152:ASP:CB	54:s6:154:ARG:HH12	2.34	0.41
54:s6:153:VAL:O	54:s6:154:ARG:C	2.63	0.41
55:s7:61:PHE:HA	55:s7:93:LEU:O	2.21	0.41
56:s8:46:VAL:HG22	56:s8:54:LYS:HB3	2.02	0.41
58:c0:62:GLN:NE2	77:d9:23:VAL:O	2.53	0.41
66:c8:6:GLN:CD	66:c8:6:GLN:N	2.79	0.41
68:d0:26:LEU:O	68:d0:88:LYS:HG3	2.21	0.41
68:d0:46:GLU:HG2	68:d0:49:ASN:HA	2.03	0.41
70:d2:34:ILE:O	70:d2:38:LEU:HG	2.21	0.41
72:d4:88:THR:O	72:d4:92:VAL:HG12	2.21	0.41
77:d9:31:ILE:HD12	77:d9:31:ILE:HA	1.84	0.41
1:1:108:A:O2'	1:1:109:A:H2'	2.21	0.41
1:1:209:A:C4	6:l:162:THR:HG21	2.55	0.41
1:1:799:G:O2'	14:t:18:TRP:NE1	2.51	0.41
1:1:1155:C:H1'	1:1:1198:C:O2	2.21	0.41
1:1:1174:G:H1'	1:1:1181:U:N3	2.36	0.41
1:1:1258:U:H2'	1:1:1260:A:OP2	2.21	0.41
1:1:1268:G:C3'	1:1:1269:U:H5''	2.51	0.41
1:1:1339:C:H2'	1:1:1340:G:O4'	2.21	0.41
1:1:1695:U:O2'	1:1:1749:A:N1	2.42	0.41
1:1:2245:C:H4'	4:j:221:LYS:O	2.20	0.41
1:1:2416:U:H2'	1:1:2417:U:C6	2.56	0.41
1:1:3107:U:P	41:AN:112:LYS:HZ2	2.44	0.41
1:1:3116:G:N3	1:1:3116:G:H2'	2.36	0.41
1:1:3151:U:H4'	1:1:3294:A:C1'	2.46	0.41
1:1:3251:U:H2'	1:1:3252:G:H8	1.81	0.41
2:3:1:G:C2	2:3:2:G:C8	3.09	0.41
2:3:11:A:N1	2:3:67:G:O2'	2.51	0.41
2:3:113:C:H2'	2:3:114:U:O4'	2.20	0.41
6:l:353:ALA:HA	6:l:356:THR:CG2	2.49	0.41
9:o:123:THR:O	9:o:126:LEU:HB2	2.21	0.41
12:r:171:TRP:CE3	12:r:181:TYR:HD2	2.39	0.41
13:s:52:TYR:CE2	45:i:39:PRO:HD3	2.55	0.41
13:s:141:ARG:O	13:s:145:LYS:HE2	2.21	0.41
13:s:155:THR:HG22	13:s:158:ASP:H	1.86	0.41
14:t:75:PHE:HB3	14:t:80:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:153:ASP:OD2	14:t:157:ARG:NH2	2.53	0.41
16:v:48:ALA:C	16:v:53:TYR:HB3	2.46	0.41
18:x:52:LEU:HG	18:x:88:VAL:HG11	2.03	0.41
18:x:103:GLU:OE1	18:x:103:GLU:HA	2.20	0.41
18:x:171:ARG:H	18:x:171:ARG:HG3	1.64	0.41
19:y:126:GLN:O	19:y:130:ARG:HG3	2.21	0.41
20:z:32:ILE:HD11	20:z:49:THR:HG22	2.02	0.41
20:z:115:ILE:HG21	20:z:142:ILE:CG2	2.51	0.41
22:2:78:LYS:HD3	22:2:87:LYS:HD2	2.02	0.41
22:2:107:GLU:O	22:2:110:LYS:HE3	2.21	0.41
23:5:49:ASN:O	23:5:49:ASN:OD1	2.38	0.41
24:6:5:GLY:HA3	24:6:106:LYS:O	2.20	0.41
26:8:72:ALA:HA	26:8:75:LYS:HG3	2.02	0.41
26:8:81:ILE:HA	26:8:124:VAL:O	2.20	0.41
27:9:28:ARG:HB2	27:9:75:ARG:CZ	2.51	0.41
27:9:69:LYS:O	27:9:83:ASP:N	2.54	0.41
32:AE:18:LYS:HB3	32:AE:18:LYS:HE2	1.78	0.41
35:AH:88:ARG:HG2	35:AH:88:ARG:H	1.63	0.41
36:AI:52:ALA:O	36:AI:56:THR:OG1	2.32	0.41
37:AJ:11:LEU:HA	37:AJ:11:LEU:HD23	1.70	0.41
38:AK:68:LYS:HD2	38:AK:68:LYS:HA	1.67	0.41
39:AL:40:GLN:HE21	39:AL:55:VAL:CG2	2.32	0.41
43:AP:12:CYS:HB2	43:AP:23:HIS:NE2	2.36	0.41
43:AP:32:LYS:HG3	43:AP:33:ALA:H	1.86	0.41
44:AQ:49:ARG:HG3	44:AQ:55:TRP:CZ2	2.55	0.41
1:AR:65:A:H2'	1:AR:110:G:N7	2.35	0.41
1:AR:118:U:C2	1:AR:123:A:N7	2.89	0.41
1:AR:417:A:H2'	1:AR:418:A:C8	2.56	0.41
1:AR:659:G:H4'	6:CF:92:ASN:O	2.21	0.41
1:AR:1222:G:O3'	1:AR:1223:A:H8	2.04	0.41
1:AR:1306:G:O2'	1:AR:1307:G:H5''	2.21	0.41
1:AR:1427:U:OP2	29:DC:4:ARG:NH2	2.39	0.41
1:AR:1464:G:N7	81:AR:3474:OHX:N1	2.69	0.41
1:AR:1506:A:H1'	1:AR:1848:G:C6	2.56	0.41
1:AR:1562:C:H2'	1:AR:1563:C:C6	2.56	0.41
1:AR:1658:G:O6	81:AR:3671:OHX:N6	2.54	0.41
1:AR:1750:A:H1'	1:AR:1752:A:N7	2.36	0.41
1:AR:1831:U:P	26:CZ:92:LYS:HD2	2.60	0.41
1:AR:2244:A:C8	4:CD:243:THR:HG21	2.56	0.41
1:AR:2403:G:C8	1:AR:2870:C:H4'	2.56	0.41
1:AR:2762:A:N6	1:AR:2800:G:H2'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2777:G:H5'	1:AR:2779:A:OP2	2.21	0.41
1:AR:2867:C:C2	1:AR:2868:U:C5	3.09	0.41
1:AR:3225:C:H2'	1:AR:3226:A:H8	1.86	0.41
2:AS:86:U:H1'	81:AS:3501:OHX:N6	2.35	0.41
3:AT:65:A:H2'	3:AT:66:A:O4'	2.21	0.41
4:CD:180:LEU:O	4:CD:181:LYS:HG2	2.21	0.41
6:CF:99:MET:HE2	6:CF:99:MET:HB3	1.66	0.41
7:CG:184:ASP:CG	7:CG:187:THR:HG22	2.46	0.41
9:CI:86:VAL:O	9:CI:114:GLY:HA2	2.21	0.41
9:CI:132:PRO:HA	9:CI:229:PHE:CD2	2.56	0.41
10:CJ:46:LEU:HD12	10:CJ:49:TYR:HD2	1.86	0.41
10:CJ:245:LYS:HZ3	10:CJ:249:ARG:CG	2.33	0.41
12:CL:36:LEU:HD11	12:CL:87:LEU:CD2	2.43	0.41
21:CU:25:PHE:HA	22:CV:149:GLN:O	2.21	0.41
22:CV:82:ASN:O	30:DD:21:ILE:HA	2.21	0.41
22:CV:159:PHE:HD1	22:CV:159:PHE:O	2.04	0.41
23:CW:54:VAL:HG12	23:CW:67:SER:HA	2.02	0.41
23:CW:75:TYR:O	23:CW:78:TYR:HB3	2.20	0.41
24:CX:118:VAL:O	24:CX:136:VAL:HA	2.20	0.41
25:CY:55:PHE:C	25:CY:55:PHE:CD1	2.98	0.41
28:DB:11:ALA:O	28:DB:23:VAL:HG12	2.21	0.41
28:DB:55:LYS:HD2	28:DB:55:LYS:HA	1.87	0.41
35:DI:65:VAL:HG22	35:DI:69:HIS:ND1	2.35	0.41
36:DJ:62:GLN:HG2	36:DJ:62:GLN:H	1.71	0.41
38:DL:32:LYS:HA	38:DL:32:LYS:HD3	1.76	0.41
44:DR:61:LYS:HD3	44:DR:61:LYS:HA	1.77	0.41
47:A:58:U:OP1	47:A:456:A:O2'	2.27	0.41
47:A:86:A:O2'	47:A:147:A:N3	2.44	0.41
47:A:158:U:H1'	47:A:159:U:OP1	2.21	0.41
47:A:215:A:H8	47:A:215:A:OP2	2.04	0.41
47:A:493:U:H2'	47:A:494:U:C5	2.56	0.41
47:A:706:A:N1	47:A:734:A:C6	2.89	0.41
47:A:765:G:O6	57:K:149:ARG:CB	2.69	0.41
47:A:781:U:H6	47:A:781:U:H2'	1.70	0.41
47:A:793:A:H4'	47:A:794:U:H2'	2.02	0.41
47:A:802:G:H21	70:X:107:SER:HB3	1.86	0.41
47:A:859:A:H62	61:O:69:ASN:ND2	2.19	0.41
47:A:898:A:C2	47:A:915:A:C6	3.09	0.41
47:A:1291:G:H1	47:A:1324:G:H1	1.68	0.41
47:A:1351:G:C6	47:A:1375:A:N1	2.88	0.41
47:A:1378:U:H2'	47:A:1379:C:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1382:A:O2'	47:A:1383:G:H5''	2.21	0.41
47:A:1423:U:H2'	50:D:92:ALA:HB1	2.02	0.41
47:A:1477:G:H2'	47:A:1478:G:H8	1.86	0.41
47:A:1571:C:H5''	47:A:1572:G:OP2	2.20	0.41
47:A:1660:A:H2'	47:A:1661:U:C6	2.56	0.41
47:A:1797:A:P	74:b:10:ARG:HD3	2.61	0.41
48:B:31:VAL:O	48:B:33:GLN:N	2.53	0.41
50:D:42:GLY:O	50:D:46:LYS:HG2	2.20	0.41
51:E:66:ILE:HA	51:E:69:LEU:HD13	2.03	0.41
51:E:222:VAL:HG21	80:h:192:PHE:CD1	2.55	0.41
52:F:161:LYS:O	52:F:169:ILE:HA	2.21	0.41
53:G:76:ARG:HG3	53:G:76:ARG:NH1	2.34	0.41
53:G:118:LEU:CD1	53:G:129:PRO:HB2	2.51	0.41
53:G:218:GLU:C	53:G:220:VAL:N	2.79	0.41
54:H:199:GLN:HB3	54:H:202:ARG:NH2	2.35	0.41
54:H:211:LEU:HD23	54:H:211:LEU:C	2.46	0.41
55:I:8:ILE:HG22	55:I:8:ILE:O	2.21	0.41
55:I:50:ASP:CB	55:I:56:LYS:HA	2.51	0.41
56:J:159:GLN:HB2	56:J:165:LEU:CD2	2.51	0.41
57:K:44:ARG:HG2	57:K:48:GLN:NE2	2.36	0.41
57:K:64:GLU:O	57:K:65:LYS:HB2	2.21	0.41
57:K:66:ASP:O	57:K:69:ARG:HB3	2.20	0.41
60:N:94:ALA:HB1	60:N:119:SER:HA	2.01	0.41
60:N:130:THR:HG22	60:N:132:GLU:OE2	2.20	0.41
60:N:136:ILE:HG13	60:N:137:MET:SD	2.61	0.41
62:P:99:GLN:OE1	74:b:44:ILE:O	2.39	0.41
63:Q:86:VAL:N	63:Q:89:MET:HE2	2.35	0.41
64:R:51:PRO:CB	64:R:85:ILE:HD11	2.51	0.41
64:R:58:ASP:OD1	64:R:59:LYS:N	2.54	0.41
64:R:87:LYS:HA	64:R:90:VAL:HG22	2.03	0.41
65:S:78:ARG:HD3	65:S:78:ARG:N	2.36	0.41
66:T:25:ASN:HB3	73:a:40:VAL:CG1	2.51	0.41
66:T:113:LEU:O	66:T:117:LYS:HG3	2.21	0.41
68:V:16:GLN:HB3	68:V:17:GLN:NE2	2.36	0.41
69:W:66:ASP:OD1	69:W:66:ASP:C	2.63	0.41
70:X:22:LYS:HD3	75:c:3:LEU:CA	2.51	0.41
70:X:78:ARG:HG3	70:X:78:ARG:NH1	2.36	0.41
71:Y:109:ARG:O	71:Y:112:LYS:HB2	2.21	0.41
74:b:43:ASN:HA	74:b:66:LYS:HB3	2.03	0.41
75:c:55:THR:HG22	75:c:56:CYS:N	2.36	0.41
77:e:43:PHE:O	77:e:47:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:h:68:VAL:HA	80:h:84:SER:HA	2.01	0.41
80:h:176:LYS:C	80:h:199:ILE:HD11	2.46	0.41
47:sR:156:A:H2'	47:sR:157:A:O4'	2.21	0.41
47:sR:372:G:OP1	70:d2:88:LYS:NZ	2.53	0.41
47:sR:768:C:H2'	47:sR:769:A:O4'	2.21	0.41
47:sR:834:G:H3'	47:sR:835:U:C5	2.55	0.41
47:sR:1416:G:C2'	47:sR:1417:A:H5'	2.51	0.41
47:sR:1471:A:OP1	53:s5:185:ARG:CZ	2.69	0.41
47:sR:1542:G:H22	47:sR:1568:C:H1'	1.86	0.41
47:sR:1547:A:H5'	66:c8:112:ASP:OD2	2.20	0.41
47:sR:1587:A:H1'	53:s5:104:ASN:HD22	1.86	0.41
48:s0:75:ALA:HB1	48:s0:174:TRP:CH2	2.56	0.41
48:s0:200:ASP:HA	48:s0:203:PHE:CE2	2.55	0.41
50:s2:143:TYR:CD1	50:s2:151:PRO:HB3	2.55	0.41
51:s3:138:VAL:HA	51:s3:183:GLY:O	2.21	0.41
52:s4:204:GLY:HA2	81:s4:301:OHX:N6	2.36	0.41
53:s5:117:THR:CG2	53:s5:191:ALA:HA	2.50	0.41
53:s5:134:VAL:HA	53:s5:137:ILE:HD11	2.03	0.41
53:s5:147:THR:OG1	53:s5:148:ARG:N	2.53	0.41
55:s7:15:GLU:O	55:s7:16:LEU:C	2.64	0.41
55:s7:38:LEU:HA	55:s7:41:LEU:HD12	2.02	0.41
57:s9:81:VAL:O	57:s9:84:GLY:N	2.54	0.41
57:s9:124:HIS:CE1	57:s9:128:LEU:HD11	2.56	0.41
59:c1:43:LYS:HD2	59:c1:44:THR:N	2.36	0.41
61:c3:41:ALA:HB3	61:c3:80:LEU:HD12	2.03	0.41
66:c8:60:GLU:OE2	73:d5:41:ILE:HG12	2.20	0.41
70:d2:31:SER:O	70:d2:34:ILE:HB	2.21	0.41
72:d4:122:GLY:O	72:d4:125:LEU:HB3	2.21	0.41
74:d6:49:ALA:O	74:d6:50:VAL:C	2.63	0.41
74:d6:87:ARG:HH21	74:d6:92:ARG:CA	2.34	0.41
1:1:65:A:C4	1:1:110:G:N7	2.89	0.41
1:1:562:C:H2'	1:1:563:U:H6	1.86	0.41
1:1:789:A:H2'	1:1:790:U:H6	1.85	0.41
1:1:1146:C:H4'	1:1:1331:U:C4	2.55	0.41
1:1:1233:G:H2'	1:1:1234:G:H8	1.85	0.41
1:1:1611:G:H2'	1:1:1612:A:H8	1.85	0.41
1:1:1757:A:H4'	23:5:96:VAL:CG2	2.51	0.41
1:1:2807:U:O3'	1:1:2808:A:H3'	2.21	0.41
3:4:103:G:OP2	3:4:105:A:O2'	2.31	0.41
6:l:91:GLY:O	6:l:97:GLY:HA3	2.21	0.41
7:m:278:SER:CB	7:m:281:GLU:HG3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:n:93:VAL:HG22	8:n:96:VAL:CG1	2.50	0.41
10:p:70:LYS:HE2	10:p:236:GLY:HA3	2.02	0.41
11:q:41:ILE:HG23	11:q:43:VAL:HG13	2.02	0.41
12:r:210:ILE:HD13	12:r:217:PHE:CE1	2.56	0.41
13:s:54:VAL:HG22	13:s:59:ILE:HD11	2.03	0.41
13:s:125:MET:HE3	13:s:125:MET:HB3	1.92	0.41
16:v:38:ARG:CZ	16:v:60:VAL:HG13	2.51	0.41
17:w:39:GLU:HG2	17:w:40:GLU:HG2	2.03	0.41
18:x:41:LEU:O	18:x:45:GLN:HG2	2.21	0.41
22:2:26:HIS:CE1	22:2:28:SER:HG	2.39	0.41
23:5:32:SER:CA	23:5:35:LYS:HB3	2.43	0.41
31:AD:55:GLU:HA	35:AH:94:LEU:HD11	2.03	0.41
32:AE:86:LYS:HD2	32:AE:86:LYS:H	1.86	0.41
39:AL:12:LEU:C	39:AL:15:THR:HG1	2.28	0.41
40:AM:3:ALA:H	40:AM:5:LYS:HZ3	1.69	0.41
45:i:74:LYS:HE2	63:Q:128:HIS:O	2.20	0.41
45:i:112:ASP:OD1	45:i:115:LYS:HG2	2.21	0.41
1:AR:953:G:C8	1:AR:1117:G:C8	3.09	0.41
1:AR:1034:U:H2'	1:AR:1035:G:H8	1.86	0.41
1:AR:1591:G:H5''	35:DI:37:LYS:HZ1	1.86	0.41
1:AR:2154:U:H4'	4:CD:240:ALA:HB1	2.03	0.41
1:AR:2268:U:C3'	1:AR:2269:U:H5''	2.51	0.41
1:AR:2522:G:N3	1:AR:2522:G:H2'	2.35	0.41
1:AR:2975:U:OP1	81:AR:3588:OHX:N3	2.54	0.41
1:AR:3113:A:H2'	1:AR:3114:A:O4'	2.21	0.41
1:AR:3132:C:H2'	1:AR:3133:C:C6	2.56	0.41
3:AT:44:A:H2'	3:AT:45:C:C6	2.56	0.41
3:AT:66:A:H2'	3:AT:67:U:C6	2.56	0.41
5:CE:87:VAL:HB	5:CE:110:LEU:HD22	2.02	0.41
10:CJ:208:GLU:O	10:CJ:211:LEU:HB3	2.21	0.41
18:CR:67:ILE:HD12	18:CR:82:ARG:NH1	2.36	0.41
20:CT:90:PRO:O	20:CT:94:VAL:HG23	2.21	0.41
20:CT:160:GLU:O	20:CT:164:LEU:HD22	2.21	0.41
24:CX:24:ASN:O	24:CX:99:ALA:HA	2.21	0.41
26:CZ:131:ASP:O	26:CZ:135:ILE:HG12	2.21	0.41
27:DA:52:ARG:O	27:DA:70:ILE:HB	2.21	0.41
37:DK:4:LYS:HB3	37:DK:14:GLY:O	2.21	0.41
38:DL:28:HIS:CD2	38:DL:31:LYS:HE3	2.56	0.41
38:DL:31:LYS:O	38:DL:33:THR:HG23	2.21	0.41
39:DM:8:ILE:HD12	39:DM:8:ILE:N	2.36	0.41
42:DP:23:ARG:CZ	42:DP:23:ARG:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:p0:77:LEU:N	46:p0:77:LEU:HD12	2.35	0.41
47:A:17:C:H2'	47:A:18:C:C6	2.56	0.41
47:A:347:G:OP1	59:M:77:SER:OG	2.34	0.41
47:A:503:G:O2'	47:A:504:U:OP1	2.36	0.41
47:A:525:A:C6	47:A:526:A:C6	3.08	0.41
47:A:693:U:C5'	47:A:694:U:H5'	2.50	0.41
47:A:698:U:H2'	47:A:699:U:O4'	2.21	0.41
47:A:705:U:H2'	47:A:706:A:N7	2.36	0.41
47:A:817:A:H2'	47:A:818:C:C6	2.56	0.41
47:A:1161:C:C2	47:A:1162:C:C6	3.09	0.41
47:A:1244:A:HO2'	47:A:1245:G:P	2.44	0.41
47:A:1654:G:H2'	47:A:1745:G:N2	2.36	0.41
49:C:141:ALA:C	49:C:142:PHE:CD1	2.99	0.41
49:C:175:GLU:O	49:C:187:LYS:NZ	2.54	0.41
49:C:193:ILE:HA	49:C:196:GLU:HG3	2.02	0.41
50:D:104:VAL:HG22	50:D:132:ALA:HB1	2.03	0.41
50:D:161:LYS:HG3	50:D:166:THR:HG22	2.03	0.41
50:D:235:LEU:HD12	50:D:235:LEU:HA	1.90	0.41
50:D:237:VAL:HG12	50:D:242:ILE:CD1	2.51	0.41
51:E:66:ILE:HA	51:E:69:LEU:CD1	2.51	0.41
51:E:167:PHE:CE1	51:E:192:PRO:HB3	2.56	0.41
51:E:223:LYS:CG	51:E:224:ASP:H	2.34	0.41
52:F:21:ASP:CG	52:F:24:SER:HG	2.27	0.41
52:F:156:VAL:C	52:F:157:ASN:OD1	2.65	0.41
53:G:163:SER:HB2	76:d:48:VAL:CG2	2.51	0.41
62:P:19:ILE:HD13	62:P:83:ILE:HB	2.03	0.41
62:P:111:ARG:CZ	62:P:111:ARG:HB3	2.50	0.41
63:Q:84:ILE:HG23	63:Q:113:GLY:HA2	2.02	0.41
64:R:11:GLY:O	64:R:80:ALA:HB1	2.21	0.41
68:V:68:ARG:NH1	68:V:70:THR:CG2	2.84	0.41
70:X:86:ILE:O	70:X:90:THR:HG23	2.21	0.41
75:c:49:HIS:HD2	75:c:69:GLY:HA3	1.85	0.41
79:g:90:LYS:O	79:g:90:LYS:CD	2.69	0.41
47:sR:571:G:C8	47:sR:572:C:C6	3.09	0.41
47:sR:602:U:H2'	47:sR:603:U:H6	1.83	0.41
47:sR:696:C:O2	81:sR:1930:OHX:N3	2.54	0.41
47:sR:1098:U:P	50:s2:168:ARG:HE	2.44	0.41
47:sR:1251:U:HO2'	47:sR:1252:C:H6	1.65	0.41
47:sR:1429:G:H2'	47:sR:1430:U:H6	1.85	0.41
47:sR:1657:U:O2'	47:sR:1658:G:OP2	2.31	0.41
80:Rb:221:MET:HG2	80:Rb:233:THR:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:s0:89:PHE:CD2	48:s0:178:ALA:HB2	2.56	0.41
52:s4:34:GLY:HA3	52:s4:83:PRO:CG	2.51	0.41
52:s4:64:ILE:HD13	72:d4:17:LEU:HB3	2.03	0.41
52:s4:157:ASN:CG	52:s4:222:LEU:HD21	2.46	0.41
53:s5:51:VAL:HG23	53:s5:131:GLN:CD	2.46	0.41
54:s6:28:PHE:CZ	54:s6:104:PRO:HB3	2.56	0.41
55:s7:141:ARG:HG2	70:d2:51:GLU:HG3	2.03	0.41
58:c0:27:PHE:N	58:c0:27:PHE:CD1	2.89	0.41
58:c0:28:ASN:H	58:c0:40:LEU:CD2	2.33	0.41
58:c0:32:HIS:CG	58:c0:33:GLU:N	2.88	0.41
62:c4:60:ALA:HB3	62:c4:100:ALA:HB3	2.03	0.41
66:c8:4:VAL:HG21	73:d5:82:HIS:CE1	2.56	0.41
66:c8:82:PRO:HB2	66:c8:84:TRP:NE1	2.36	0.41
72:d4:78:SER:HG	72:d4:80:ALA:H	1.69	0.41
76:d8:31:GLU:O	76:d8:33:LEU:HD22	2.20	0.41
1:1:37:U:O3'	1:1:935:U:H4'	2.21	0.40
1:1:139:G:H2'	1:1:140:C:O4'	2.21	0.40
1:1:497:C:H2'	1:1:498:A:O4'	2.21	0.40
1:1:517:G:O2'	1:1:518:G:H5'	2.21	0.40
1:1:756:U:H2'	1:1:757:C:C6	2.56	0.40
1:1:817:A:H8	38:AK:15:SER:OG	2.04	0.40
1:1:826:G:C5	1:1:900:G:O6	2.75	0.40
1:1:908:G:H4'	1:1:909:G:O5'	2.21	0.40
1:1:984:G:O4'	30:AC:17:HIS:NE2	2.54	0.40
1:1:1727:G:H2'	1:1:1728:G:H21	1.86	0.40
1:1:1744:G:H2'	1:1:1745:C:C6	2.55	0.40
1:1:2331:C:H2'	1:1:2332:A:O4'	2.21	0.40
1:1:2762:A:C4	1:1:2763:U:C5	3.09	0.40
1:1:2862:U:H2'	1:1:2863:G:O4'	2.20	0.40
1:1:3023:U:C2	1:1:3024:A:C8	3.09	0.40
1:1:3038:U:O3'	5:k:65:SER:HB3	2.20	0.40
1:1:3329:U:H5''	5:k:308:MET:HE2	2.03	0.40
81:1:4076:OHX:N5	22:2:13:TYR:O	2.54	0.40
2:3:44:C:OP2	13:s:137:ARG:NH2	2.46	0.40
2:3:46:A:OP1	7:m:158:ARG:HG2	2.21	0.40
6:l:150:LEU:HD23	6:l:249:ILE:HG23	2.03	0.40
7:m:58:LYS:HA	7:m:93:THR:OG1	2.19	0.40
16:v:22:LEU:HD22	16:v:26:ARG:NH2	2.36	0.40
27:9:60:ARG:HB2	27:9:103:LYS:HB3	2.02	0.40
37:AJ:45:ARG:NH2	37:AJ:50:LEU:HA	2.36	0.40
39:AL:25:VAL:HG13	39:AL:25:VAL:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:7:C:H2'	1:AR:8:C:H6	1.85	0.40
1:AR:172:G:H3'	1:AR:173:G:C5'	2.50	0.40
1:AR:830:A:H2'	1:AR:831:G:O4'	2.21	0.40
1:AR:1307:G:O2'	1:AR:1308:A:N7	2.45	0.40
1:AR:1675:G:H2'	1:AR:1676:A:H8	1.86	0.40
1:AR:1748:G:OP1	39:DM:44:LYS:HE2	2.21	0.40
1:AR:1781:C:H2'	1:AR:1782:U:H6	1.85	0.40
1:AR:1824:U:H4'	39:DM:17:ARG:HH12	1.86	0.40
1:AR:2438:A:C6	1:AR:2439:A:N7	2.89	0.40
1:AR:2525:G:P	4:CD:37:ARG:HH22	2.44	0.40
1:AR:3180:A:C4	17:CQ:114:LYS:HA	2.56	0.40
1:AR:3216:G:H3'	1:AR:3219:G:N3	2.36	0.40
11:CK:86:TYR:CD1	11:CK:151:VAL:HG22	2.56	0.40
12:CL:169:LYS:HD2	12:CL:169:LYS:H	1.86	0.40
12:CL:191:LYS:HB3	12:CL:213:PHE:HE1	1.82	0.40
19:CS:175:ALA:O	19:CS:182:LYS:HB3	2.20	0.40
21:CU:25:PHE:CE2	21:CU:49:HIS:CD2	3.09	0.40
23:CW:49:ASN:O	23:CW:49:ASN:OD1	2.38	0.40
26:CZ:50:ALA:O	36:DJ:66:VAL:HG21	2.21	0.40
27:DA:63:LYS:HA	27:DA:63:LYS:HD3	1.83	0.40
28:DB:108:GLU:HA	28:DB:111:LYS:HB2	2.03	0.40
42:DP:8:LYS:HD3	42:DP:12:ARG:HH21	1.84	0.40
47:A:646:C:H2'	47:A:647:G:C8	2.55	0.40
47:A:790:U:H2'	47:A:791:A:O4'	2.20	0.40
47:A:1014:G:H2'	47:A:1015:U:O4'	2.21	0.40
47:A:1316:G:H5'	65:S:7:LYS:HD2	2.01	0.40
47:A:1357:A:H2'	47:A:1358:G:H8	1.86	0.40
47:A:1441:C:H2'	47:A:1442:U:C6	2.56	0.40
47:A:1450:U:C2	47:A:1451:C:C5	3.09	0.40
48:B:200:ASP:HA	48:B:203:PHE:CE1	2.55	0.40
49:C:27:LYS:HD2	49:C:47:LEU:HD21	2.03	0.40
49:C:83:LYS:HE2	62:P:116:GLU:OE1	2.21	0.40
51:E:24:PHE:HA	58:L:60:SER:OG	2.21	0.40
51:E:42:THR:C	51:E:44:THR:H	2.28	0.40
51:E:99:VAL:HG23	51:E:173:ARG:NH1	2.35	0.40
52:F:67:GLN:HE22	72:Z:85:PHE:HZ	1.68	0.40
52:F:157:ASN:OD1	52:F:157:ASN:N	2.54	0.40
53:G:79:ASN:OD1	53:G:79:ASN:N	2.53	0.40
56:J:65:PHE:O	56:J:109:PHE:HZ	2.04	0.40
56:J:190:ALA:O	56:J:193:LEU:HG	2.21	0.40
62:P:64:ALA:HB1	62:P:105:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:R:102:LYS:O	64:R:105:LEU:N	2.49	0.40
65:S:113:LEU:HD11	69:W:80:LYS:HZ3	1.86	0.40
66:T:69:ILE:O	66:T:73:MET:HG3	2.21	0.40
70:X:11:LEU:CD1	70:X:74:VAL:HB	2.50	0.40
70:X:79:PHE:O	70:X:125:ILE:HG22	2.21	0.40
71:Y:93:LEU:HD12	71:Y:93:LEU:HA	1.94	0.40
73:a:84:GLU:CA	73:a:89:ILE:HD11	2.49	0.40
75:c:55:THR:CG2	75:c:56:CYS:H	2.34	0.40
47:sR:160:C:H2'	47:sR:161:U:O4'	2.21	0.40
47:sR:1365:C:O2'	64:c6:30:LYS:NZ	2.53	0.40
47:sR:1473:U:H3	53:s5:180:ARG:HG3	1.86	0.40
47:sR:1566:U:H4'	66:c8:37:GLY:O	2.21	0.40
47:sR:1595:U:H5	47:sR:1596:C:C5	2.39	0.40
47:sR:1595:U:N3	47:sR:1600:A:H2	2.08	0.40
80:Rb:9:LEU:C	80:Rb:9:LEU:CD1	2.94	0.40
80:Rb:169:ILE:HD12	80:Rb:169:ILE:O	2.21	0.40
80:Rb:199:ILE:CA	80:Rb:215:GLY:HA3	2.41	0.40
80:Rb:214:ALA:HB2	80:Rb:220:ILE:CA	2.50	0.40
48:s0:29:VAL:HG21	48:s0:46:HIS:ND1	2.35	0.40
48:s0:157:ASP:O	69:d1:66:ASP:HA	2.21	0.40
49:s1:30:PHE:HA	49:s1:94:LYS:O	2.22	0.40
51:s3:72:LEU:HB2	58:c0:20:VAL:HG11	2.02	0.40
52:s4:77:ARG:HD2	52:s4:82:TYR:CE2	2.56	0.40
53:s5:51:VAL:HG11	53:s5:130:ILE:HD13	2.03	0.40
53:s5:62:VAL:HG12	53:s5:64:VAL:HG13	2.03	0.40
53:s5:77:TYR:HD1	53:s5:83:ARG:HG2	1.85	0.40
54:s6:196:ARG:N	54:s6:196:ARG:HD2	2.34	0.40
55:s7:45:SER:OG	55:s7:61:PHE:HD2	2.05	0.40
57:s9:23:ARG:NE	57:s9:27:GLU:OE2	2.38	0.40
58:c0:8:ARG:HG3	58:c0:12:HIS:CE1	2.56	0.40
70:d2:53:ILE:HB	70:d2:60:LYS:HB2	2.03	0.40
71:d3:43:PHE:CD1	71:d3:76:LEU:HD21	2.55	0.40
71:d3:70:LYS:O	71:d3:86:PHE:HD1	2.04	0.40
71:d3:135:LEU:HD23	71:d3:140:LYS:O	2.21	0.40
74:d6:41:ILE:HD12	74:d6:68:TYR:CE2	2.56	0.40
75:d7:10:PRO:HG2	75:d7:15:GLU:HG3	2.02	0.40
75:d7:62:ILE:O	75:d7:74:SER:OG	2.37	0.40
77:d9:21:CYS:SG	77:d9:39:CYS:N	2.72	0.40
1:1:93:C:OP1	84:1:4157:XBI:N	2.54	0.40
1:1:298:U:O2'	81:1:3562:OHX:N2	2.54	0.40
1:1:1267:U:H2'	1:1:1268:G:O4'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1274:A:C5	1:1:1275:C:C5	3.10	0.40
1:1:1286:A:H2'	1:1:1286:A:OP2	2.21	0.40
1:1:1562:C:O2'	1:1:1563:C:P	2.80	0.40
1:1:2315:G:OP1	81:1:3504:OHX:N6	2.54	0.40
1:1:2403:G:N7	1:1:2870:C:H4'	2.36	0.40
1:1:2709:C:H2'	1:1:2710:C:H6	1.86	0.40
1:1:2771:U:H5''	43:AP:15:LYS:HZ3	1.86	0.40
1:1:3033:A:H2'	1:1:3034:C:C6	2.56	0.40
1:1:3269:U:O2	1:1:3269:U:H5'	2.21	0.40
2:3:26:C:H2'	2:3:57:G:H22	1.86	0.40
3:4:8:C:H2'	3:4:9:A:H8	1.86	0.40
4:j:144:ASN:O	4:j:144:ASN:CG	2.64	0.40
7:m:80:SER:HB2	7:m:101:THR:OG1	2.21	0.40
7:m:187:THR:OG1	7:m:189:GLU:OE1	2.39	0.40
11:q:110:LYS:HB3	11:q:128:VAL:CG1	2.52	0.40
15:u:99:TRP:O	15:u:103:ILE:HG13	2.21	0.40
17:w:51:LYS:HE2	17:w:144:SER:OG	2.21	0.40
20:z:172:ARG:HH11	20:z:172:ARG:CG	2.34	0.40
21:0:156:VAL:O	21:0:156:VAL:HG23	2.20	0.40
25:7:13:ILE:HG22	25:7:32:GLN:CG	2.50	0.40
31:AD:34:LEU:HD23	31:AD:34:LEU:HA	1.89	0.40
40:AM:9:ILE:HD12	40:AM:51:ILE:HG23	2.04	0.40
44:AQ:32:GLN:HB3	44:AQ:69:TYR:O	2.21	0.40
45:i:24:GLU:O	45:i:25:ILE:HD12	2.20	0.40
45:i:111:GLY:HA2	45:i:115:LYS:NZ	2.36	0.40
1:AR:158:G:N2	1:AR:264:G:H1'	2.37	0.40
1:AR:716:A:C6	29:DC:117:ARG:HG3	2.56	0.40
1:AR:1214:U:H2'	1:AR:1215:U:H6	1.86	0.40
1:AR:1295:G:H2'	1:AR:1296:C:C6	2.57	0.40
1:AR:1471:U:H2'	1:AR:1472:U:H6	1.86	0.40
1:AR:1639:C:O2'	1:AR:1640:G:H5'	2.21	0.40
1:AR:1700:G:H2'	1:AR:1701:C:C6	2.57	0.40
1:AR:2288:G:H2'	1:AR:2289:U:C6	2.57	0.40
1:AR:2289:U:H2'	1:AR:2290:C:H6	1.85	0.40
1:AR:2895:G:C2'	1:AR:2896:A:H5''	2.48	0.40
1:AR:3060:C:H1'	1:AR:3332:U:H1'	2.03	0.40
1:AR:3075:G:H2'	1:AR:3076:C:C6	2.56	0.40
5:CE:124:LYS:HB3	5:CE:124:LYS:HE3	1.93	0.40
6:CF:188:ARG:NE	6:CF:197:ARG:HB3	2.37	0.40
10:CJ:121:SER:O	10:CJ:123:GLN:N	2.39	0.40
21:CU:137:ARG:HG2	21:CU:139:TYR:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:23:THR:HG22	23:CW:28:PHE:HD2	1.86	0.40
26:CZ:58:ASP:OD1	26:CZ:58:ASP:C	2.63	0.40
28:DB:89:VAL:HG22	28:DB:89:VAL:O	2.22	0.40
34:DH:59:VAL:HG23	34:DH:60:ARG:N	2.36	0.40
47:A:479:C:H2'	47:A:480:G:O4'	2.21	0.40
47:A:851:U:H2'	47:A:852:C:C5	2.56	0.40
47:A:876:G:H1'	47:A:944:A:O4'	2.20	0.40
47:A:1451:C:OP1	77:e:10:HIS:HB3	2.21	0.40
48:B:41:ARG:NH1	48:B:45:VAL:H	2.19	0.40
48:B:139:VAL:O	48:B:140:ASN:HB2	2.21	0.40
48:B:182:LEU:HB3	48:B:188:LEU:HD13	2.03	0.40
49:C:135:LEU:HD21	49:C:215:VAL:CG2	2.51	0.40
49:C:213:ARG:O	49:C:213:ARG:HD2	2.20	0.40
50:D:43:ARG:NH1	50:D:249:ALA:HB2	2.35	0.40
50:D:140:ARG:CZ	69:W:1:MET:SD	3.10	0.40
51:E:39:VAL:HB	51:E:48:VAL:HG12	2.02	0.40
51:E:105:MET:O	51:E:106:LYS:C	2.63	0.40
52:F:87:MET:HE2	52:F:87:MET:HB2	1.77	0.40
52:F:187:ARG:HA	52:F:189:LEU:H	1.86	0.40
55:I:84:LYS:HE2	55:I:84:LYS:HB2	1.79	0.40
55:I:86:GLN:O	55:I:87:ASP:CG	2.65	0.40
59:M:42:PHE:CD1	59:M:141:LYS:HG3	2.51	0.40
59:M:42:PHE:HA	59:M:141:LYS:NZ	2.36	0.40
64:R:10:PHE:C	64:R:10:PHE:HD1	2.29	0.40
66:T:28:ILE:O	66:T:28:ILE:HG13	2.21	0.40
67:U:73:VAL:HG21	67:U:102:ARG:HB2	2.04	0.40
68:V:117:VAL:HG22	68:V:118:VAL:H	1.87	0.40
69:W:70:ASN:OD1	69:W:70:ASN:N	2.54	0.40
70:X:106:THR:OG1	70:X:122:SER:O	2.32	0.40
72:Z:54:ALA:HB1	72:Z:76:TYR:HB2	2.03	0.40
80:h:43:ILE:HG13	80:h:45:TRP:HE1	1.86	0.40
80:h:136:ILE:H	80:h:136:ILE:HG13	1.71	0.40
47:sR:486:G:N7	47:sR:488:G:C2	2.90	0.40
47:sR:626:U:H2'	47:sR:627:C:H6	1.86	0.40
47:sR:679:U:H2'	47:sR:680:U:O4'	2.20	0.40
47:sR:961:U:H2'	47:sR:962:C:H6	1.86	0.40
47:sR:1146:G:H2'	47:sR:1147:A:H8	1.86	0.40
47:sR:1364:G:N2	67:c9:3:GLY:HA3	2.35	0.40
47:sR:1370:U:O4	81:sR:1995:OHX:N2	2.54	0.40
47:sR:1390:U:OP2	65:c7:49:LYS:HE2	2.22	0.40
47:sR:1543:A:OP2	81:sR:1972:OHX:N2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:Rb:37:SER:H	80:Rb:68:VAL:HG13	1.86	0.40
48:s0:56:LYS:HB3	48:s0:56:LYS:HE3	1.63	0.40
48:s0:80:THR:O	48:s0:83:GLN:OE1	2.39	0.40
48:s0:168:HIS:HB3	48:s0:203:PHE:CE1	2.56	0.40
53:s5:25:LEU:HD12	64:c6:63:ILE:HD11	2.02	0.40
53:s5:159:ALA:HB3	53:s5:225:ARG:HH11	1.86	0.40
54:s6:212:LEU:O	54:s6:215:ARG:HG2	2.21	0.40
57:s9:64:GLU:OE1	57:s9:65:LYS:N	2.52	0.40
63:c5:23:GLU:HG3	63:c5:24:LYS:H	1.85	0.40
70:d2:18:GLU:HG3	70:d2:69:LEU:HB3	2.04	0.40
72:d4:100:VAL:O	72:d4:101:GLU:C	2.64	0.40
74:d6:19:LYS:HG3	74:d6:20:PRO:N	2.35	0.40
1:1:884:A:N7	1:1:2139:A:C4	2.90	0.40
1:1:1191:U:C2	17:w:48:PHE:CE2	3.09	0.40
1:1:1202:A:C2	1:1:2857:C:H5'	2.56	0.40
1:1:1266:G:C2	1:1:1276:U:C2	3.10	0.40
1:1:2267:C:H2'	1:1:2268:U:O4'	2.21	0.40
1:1:2995:A:H2'	1:1:2996:U:H5''	2.03	0.40
8:n:154:LEU:HD12	8:n:154:LEU:HA	1.92	0.40
11:q:86:TYR:CD2	11:q:151:VAL:HB	2.56	0.40
14:t:106:GLN:O	14:t:107:GLU:C	2.65	0.40
17:w:83:ALA:O	17:w:87:MET:HG3	2.21	0.40
26:8:100:LYS:HZ1	26:8:106:ASP:HA	1.86	0.40
34:AG:32:ILE:HG23	34:AG:100:ILE:HD12	2.03	0.40
42:AO:11:ARG:HG3	42:AO:11:ARG:NH1	2.35	0.40
1:AR:170:G:H4'	36:DJ:109:ILE:HD11	2.04	0.40
1:AR:889:U:H2'	1:AR:890:C:O4'	2.21	0.40
1:AR:929:A:H2'	1:AR:930:U:H6	1.85	0.40
1:AR:1334:U:OP1	9:CI:206:LYS:HB3	2.21	0.40
1:AR:1375:G:O6	29:DC:10:LYS:HE2	2.21	0.40
1:AR:1638:A:H5''	35:DI:74:ARG:NH1	2.36	0.40
1:AR:1815:U:O2'	1:AR:1816:A:OP2	2.25	0.40
1:AR:2255:A:N3	47:sR:1758:U:H1'	2.36	0.40
1:AR:2777:G:H5''	1:AR:2778:G:OP1	2.22	0.40
1:AR:3095:U:H2'	1:AR:3096:C:C6	2.56	0.40
1:AR:3165:A:C2	1:AR:3286:G:C6	3.09	0.40
2:AS:91:G:H2'	2:AS:92:A:C8	2.56	0.40
3:AT:135:G:OP2	26:CZ:56:ARG:NH1	2.46	0.40
4:CD:47:GLN:HA	4:CD:84:THR:HG22	2.02	0.40
4:CD:128:ARG:HA	4:CD:169:ILE:CD1	2.51	0.40
4:CD:180:LEU:CD1	44:DR:26:VAL:HG21	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:93:VAL:O	8:CH:93:VAL:HG13	2.21	0.40
13:CM:160:VAL:HB	13:CM:171:VAL:HG11	2.02	0.40
18:CR:41:LEU:HD22	18:CR:150:VAL:HG11	2.02	0.40
20:CT:138:LEU:HD12	20:CT:138:LEU:O	2.21	0.40
20:CT:161:ALA:O	20:CT:165:LYS:HG3	2.20	0.40
20:CT:167:ARG:HH12	47:sR:814:A:H5'	1.87	0.40
22:CV:118:GLU:HA	22:CV:121:ALA:HB3	2.02	0.40
28:DB:108:GLU:O	28:DB:112:LYS:HG2	2.20	0.40
29:DC:28:HIS:ND1	29:DC:32:ARG:HG2	2.36	0.40
32:DF:74:ARG:HB3	32:DF:94:GLU:HG2	2.03	0.40
47:A:283:U:H5''	54:H:188:ARG:HD3	2.04	0.40
47:A:1039:A:H5''	69:W:62:ARG:HH12	1.86	0.40
47:A:1202:A:H3'	47:A:1202:A:N3	2.36	0.40
47:A:1407:U:H2'	47:A:1408:G:O4'	2.21	0.40
48:B:198:MET:CE	65:S:86:PRO:HA	2.51	0.40
51:E:166:ASP:HB2	51:E:167:PHE:CD2	2.56	0.40
52:F:95:THR:HG22	72:Z:16:PRO:CG	2.34	0.40
53:G:112:ARG:HD2	64:R:43:ILE:CG1	2.50	0.40
53:G:117:THR:HG22	53:G:191:ALA:HA	2.03	0.40
53:G:197:GLU:OE2	53:G:209:TYR:N	2.54	0.40
54:H:2:LYS:HG3	54:H:17:GLU:HG2	2.03	0.40
54:H:109:LEU:HD12	54:H:109:LEU:HA	1.89	0.40
54:H:120:GLU:OE1	54:H:125:THR:HB	2.21	0.40
57:K:122:VAL:O	57:K:125:ALA:HB3	2.21	0.40
57:K:168:ARG:HG3	57:K:170:GLY:H	1.87	0.40
60:N:52:LEU:O	60:N:52:LEU:HD23	2.22	0.40
67:U:117:SER:H	67:U:122:ARG:HA	1.85	0.40
70:X:80:ASN:OD1	70:X:124:LYS:NZ	2.47	0.40
75:c:72:LYS:HE3	75:c:72:LYS:HB3	1.88	0.40
77:e:10:HIS:CG	77:e:11:PRO:HD2	2.56	0.40
79:g:108:VAL:CG1	79:g:114:VAL:HG12	2.50	0.40
80:h:20:VAL:HA	80:h:37:SER:CB	2.51	0.40
80:h:144:LEU:HD12	80:h:181:TRP:CE3	2.56	0.40
80:h:240:VAL:CG1	80:h:243:LEU:HD11	2.50	0.40
47:sR:990:C:H2'	47:sR:991:G:O4'	2.20	0.40
47:sR:1351:G:H2'	47:sR:1352:G:O4'	2.21	0.40
47:sR:1565:C:C2	47:sR:1566:U:C6	3.09	0.40
47:sR:1694:A:N6	47:sR:1695:G:N2	2.70	0.40
47:sR:1706:C:H2'	47:sR:1707:A:H5'	2.03	0.40
80:Rb:20:VAL:CG2	80:Rb:304:GLY:HA3	2.52	0.40
80:Rb:227:ALA:O	80:Rb:228:LYS:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:Rb:249:ARG:HH22	80:Rb:299:GLN:NE2	2.19	0.40
48:s0:56:LYS:HD3	69:d1:70:ASN:HD21	1.86	0.40
48:s0:104:PRO:HG3	48:s0:131:GLN:HG2	2.03	0.40
48:s0:189:VAL:HG22	48:s0:190:ASP:H	1.86	0.40
51:s3:79:TYR:CE2	51:s3:84:ILE:HD13	2.52	0.40
52:s4:67:GLN:OE1	52:s4:67:GLN:HA	2.21	0.40
55:s7:160:GLN:HA	55:s7:163:ASP:OD1	2.21	0.40
56:s8:84:HIS:HA	56:s8:85:PRO:HD3	1.98	0.40
56:s8:90:LEU:HD13	56:s8:97:THR:HG21	2.03	0.40
61:c3:43:LYS:HE3	61:c3:43:LYS:HB3	1.84	0.40
63:c5:97:TYR:HD1	63:c5:101:ALA:O	2.05	0.40
64:c6:64:ASP:C	64:c6:65:ILE:HD13	2.46	0.40
65:c7:109:LEU:O	65:c7:112:SER:OG	2.33	0.40
67:c9:38:LYS:HA	67:c9:46:PRO:HA	2.03	0.40
67:c9:53:TRP:O	67:c9:56:LYS:HG2	2.20	0.40
72:d4:36:SER:O	72:d4:39:GLU:HB3	2.21	0.40
73:d5:58:ARG:HA	73:d5:103:ARG:HB3	2.04	0.40
78:e0:20:LYS:HD2	78:e0:20:LYS:N	2.36	0.40
1:l:77:A:H5'	14:t:100:ARG:CZ	2.51	0.40
1:l:273:A:N7	81:l:4113:OHX:N2	2.70	0.40
1:l:439:C:H3'	1:l:440:A:C8	2.56	0.40
1:l:573:C:H2'	1:l:574:U:C6	2.56	0.40
1:l:597:G:H2'	1:l:598:A:H8	1.85	0.40
1:l:712:G:H2'	1:l:713:U:C6	2.57	0.40
1:l:791:A:OP1	6:l:108:LYS:HE3	2.21	0.40
1:l:794:U:C2	1:l:795:G:C8	3.10	0.40
1:l:1100:U:H2'	1:l:1101:G:O4'	2.20	0.40
1:l:1497:C:H2'	1:l:1498:A:C8	2.56	0.40
1:l:2653:C:OP1	43:AP:89:LYS:HB2	2.21	0.40
1:l:2802:A:OP1	84:l:4157:XBI:O3	2.39	0.40
1:l:2895:G:O2'	41:AN:100:TYR:O	2.28	0.40
1:l:3284:G:H2'	1:l:3285:C:C6	2.56	0.40
3:4:37:A:H5''	3:4:39:G:O4'	2.20	0.40
3:4:131:A:H5''	26:8:93:TYR:CE2	2.56	0.40
4:j:65:ASP:HB3	4:j:68:LYS:O	2.21	0.40
5:k:160:VAL:O	5:k:180:GLU:HA	2.20	0.40
5:k:162:VAL:O	5:k:178:LEU:HD12	2.21	0.40
6:l:264:SER:HB2	6:l:265:GLU:OE2	2.21	0.40
10:p:215:VAL:HA	10:p:218:ILE:CG1	2.51	0.40
12:r:52:LEU:HB3	12:r:136:PHE:HB2	2.03	0.40
13:s:54:VAL:O	13:s:55:ARG:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:y:60:PRO:HG3	19:y:144:ARG:HA	2.03	0.40
20:z:60:LYS:O	20:z:64:ARG:HG3	2.21	0.40
28:AA:110:ALA:O	28:AA:114:VAL:HG13	2.21	0.40
33:AF:121:ASN:OD1	33:AF:121:ASN:N	2.53	0.40
35:AH:44:CYS:HB2	35:AH:81:CYS:HB3	2.03	0.40
37:AJ:12:ASN:HD22	37:AJ:12:ASN:HA	1.64	0.40
45:i:123:ALA:O	45:i:126:ASP:HB2	2.21	0.40
1:AR:76:G:OP1	14:CN:70:ARG:NH1	2.52	0.40
1:AR:313:A:H2'	1:AR:314:U:H6	1.84	0.40
1:AR:651:G:C6	1:AR:652:G:C6	3.10	0.40
1:AR:943:U:O5'	29:DC:13:GLY:HA2	2.21	0.40
1:AR:1887:A:OP1	81:AR:3609:OHX:N3	2.54	0.40
1:AR:2181:C:H5''	4:CD:193:ARG:NH1	2.36	0.40
1:AR:2352:A:OP2	18:CR:82:ARG:HD3	2.21	0.40
1:AR:2651:G:H5''	1:AR:2652:U:O4'	2.22	0.40
1:AR:2896:A:OP1	41:DO:124:LYS:HE2	2.22	0.40
1:AR:3215:A:H5''	34:DH:2:ALA:HB2	2.03	0.40
1:AR:3348:G:H1	1:AR:3357:U:H3	1.70	0.40
1:AR:3362:A:H2'	1:AR:3363:U:O4'	2.20	0.40
3:AT:91:C:O2'	27:DA:25:SER:HB3	2.22	0.40
5:CE:56:ILE:HD11	5:CE:356:LEU:HD13	2.04	0.40
6:CF:276:LEU:HD12	6:CF:276:LEU:H	1.87	0.40
6:CF:346:LYS:HD3	6:CF:346:LYS:HA	1.88	0.40
7:CG:52:VAL:HA	7:CG:147:ASP:HB3	2.02	0.40
12:CL:210:ILE:HG12	12:CL:217:PHE:CD2	2.56	0.40
13:CM:141:ARG:O	13:CM:145:LYS:HE2	2.22	0.40
14:CN:105:ASN:ND2	37:DK:17:VAL:HG21	2.37	0.40
16:CP:172:ARG:O	16:CP:183:THR:OG1	2.39	0.40
20:CT:163:ARG:O	20:CT:166:ASN:ND2	2.55	0.40
26:CZ:67:ILE:HD11	26:CZ:85:GLN:HB2	2.02	0.40
32:DF:8:VAL:HG12	32:DF:9:THR:N	2.37	0.40
39:DM:58:ASP:OD1	39:DM:61:LYS:HG3	2.22	0.40
47:A:16:G:O6	50:D:203:LYS:HE3	2.22	0.40
47:A:144:U:C2	47:A:145:A:C8	3.09	0.40
47:A:448:C:H4'	52:F:28:ALA:O	2.21	0.40
47:A:716:C:N4	47:A:723:G:N3	2.69	0.40
47:A:741:C:O2'	47:A:742:U:OP2	2.39	0.40
47:A:857:U:O3'	55:I:116:ARG:NH2	2.54	0.40
47:A:1251:U:H1'	47:A:1252:C:C6	2.57	0.40
47:A:1516:A:OP1	68:V:88:LYS:NZ	2.40	0.40
47:A:1589:C:H2'	47:A:1590:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D:224:PHE:O	50:D:226:THR:HG22	2.22	0.40
51:E:208:ILE:CD1	65:S:16:LEU:HD21	2.51	0.40
52:F:180:LEU:CD1	52:F:193:GLY:HA2	2.51	0.40
53:G:152:GLY:O	53:G:154:ALA:N	2.52	0.40
53:G:213:LYS:O	53:G:217:LEU:HD23	2.21	0.40
55:I:96:ARG:NH2	55:I:128:ASP:OD2	2.54	0.40
57:K:27:GLU:HB3	57:K:39:LYS:HD3	2.03	0.40
60:N:32:LEU:HB2	60:N:41:LEU:CD1	2.49	0.40
60:N:61:VAL:CG2	60:N:89:ILE:HG23	2.51	0.40
61:O:20:ARG:HG3	70:X:56:HIS:ND1	2.36	0.40
63:Q:98:ASN:HB3	63:Q:120:SER:OG	2.21	0.40
67:U:24:ARG:HA	67:U:24:ARG:HD3	1.91	0.40
70:X:37:PHE:CD2	70:X:103:ILE:HD13	2.57	0.40
72:Z:114:ARG:O	72:Z:117:LYS:NZ	2.54	0.40
72:Z:128:LYS:HA	72:Z:131:ARG:HH11	1.86	0.40
75:c:3:LEU:O	75:c:3:LEU:HD23	2.22	0.40
80:h:40:LYS:HE3	80:h:40:LYS:HB2	1.90	0.40
80:h:242:SER:HB3	80:h:292:LEU:CD2	2.52	0.40
47:sR:71:A:H2'	47:sR:72:A:O4'	2.21	0.40
47:sR:90:C:O2	47:sR:451:A:H4'	2.22	0.40
47:sR:138:A:H2'	47:sR:139:C:H5'	2.04	0.40
47:sR:292:U:H2'	47:sR:293:U:H6	1.84	0.40
47:sR:562:G:H2'	47:sR:563:U:C6	2.56	0.40
47:sR:801:G:C6	47:sR:802:G:C5	3.10	0.40
47:sR:1057:U:H5	47:sR:1060:U:O2	2.03	0.40
47:sR:1057:U:H3'	47:sR:1058:U:O4'	2.21	0.40
47:sR:1210:C:H2'	47:sR:1211:A:H8	1.86	0.40
47:sR:1334:U:H2'	47:sR:1335:U:H6	1.86	0.40
47:sR:1614:A:H61	53:s5:78:ALA:HB1	1.87	0.40
47:sR:1702:A:H5'	47:sR:1703:C:H5	1.85	0.40
50:s2:83:ILE:HA	50:s2:99:LYS:O	2.22	0.40
50:s2:143:TYR:CG	50:s2:147:ASN:HA	2.57	0.40
52:s4:119:ALA:O	52:s4:164:LEU:HD13	2.21	0.40
54:s6:64:LYS:O	54:s6:67:VAL:HG13	2.21	0.40
54:s6:149:LYS:C	54:s6:149:LYS:CD	2.93	0.40
55:s7:50:ASP:OD1	55:s7:50:ASP:N	2.54	0.40
55:s7:84:LYS:HD3	55:s7:84:LYS:HA	1.88	0.40
55:s7:110:GLN:O	55:s7:110:GLN:HG3	2.21	0.40
56:s8:60:ILE:HG21	56:s8:179:CYS:CB	2.51	0.40
57:s9:77:ILE:HG21	57:s9:91:LYS:HA	2.03	0.40
57:s9:123:HIS:CD2	78:e0:33:ARG:HD2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:c4:52:ARG:HE	62:c4:52:ARG:HB3	1.59	0.40
63:c5:28:MET:HE3	63:c5:28:MET:HB2	1.90	0.40
64:c6:53:LEU:HD12	64:c6:53:LEU:H	1.87	0.40
67:c9:124:ILE:HD12	67:c9:124:ILE:HA	1.95	0.40
68:d0:28:SER:HB3	68:d0:34:LEU:HG	2.03	0.40
70:d2:35:ILE:O	70:d2:39:GLN:HG3	2.21	0.40
76:d8:11:LYS:HD2	76:d8:31:GLU:OE1	2.21	0.40
1:1:873:C:O3'	1:1:875:G:H5'	2.22	0.40
1:1:1100:U:O2	9:o:105:LEU:HD22	2.22	0.40
1:1:1128:U:H2'	1:1:1129:A:O4'	2.21	0.40
1:1:1874:A:OP2	20:z:20:ARG:HD3	2.21	0.40
1:1:1874:A:N7	20:z:20:ARG:NH1	2.69	0.40
1:1:1898:G:OP2	81:1:4097:OHX:N5	2.55	0.40
1:1:2242:A:H5'	4:j:243:THR:HG23	2.03	0.40
1:1:2660:G:H4'	1:1:2750:U:O2	2.21	0.40
1:1:2730:G:H4'	19:y:184:PHE:CG	2.56	0.40
1:1:2766:U:H2'	1:1:2767:U:H6	1.87	0.40
1:1:2896:A:P	41:AN:102:ARG:HH11	2.43	0.40
1:1:3060:C:H2'	1:1:3061:G:C8	2.57	0.40
1:1:3140:G:OP1	5:k:20:LYS:NZ	2.46	0.40
2:3:22:A:C6	2:3:23:A:C6	3.09	0.40
7:m:44:TYR:HB3	22:2:33:VAL:CG1	2.52	0.40
7:m:160:PHE:O	7:m:163:LEU:HB3	2.21	0.40
13:s:53:THR:OG1	13:s:60:ARG:HA	2.22	0.40
13:s:114:ILE:HD12	13:s:114:ILE:N	2.36	0.40
15:u:25:LYS:HA	15:u:29:ALA:HB2	2.03	0.40
16:v:140:LYS:O	16:v:144:ARG:HD2	2.21	0.40
18:x:51:VAL:HA	18:x:56:ARG:O	2.21	0.40
23:5:41:ILE:CD1	23:5:79:LEU:HD13	2.51	0.40
26:8:62:VAL:CG1	26:8:95:ILE:HG22	2.52	0.40
28:AA:54:THR:O	28:AA:57:HIS:HB2	2.21	0.40
31:AD:13:LYS:NZ	31:AD:99:ASP:H	2.19	0.40
1:AR:312:C:H2'	1:AR:313:A:H8	1.85	0.40
1:AR:359:U:OP1	38:DL:11:ARG:NH1	2.54	0.40
1:AR:542:G:H2'	1:AR:543:C:H6	1.87	0.40
1:AR:542:G:H2'	1:AR:543:C:C6	2.56	0.40
1:AR:582:G:O6	81:AR:3521:OHX:N3	2.55	0.40
1:AR:618:C:O2'	1:AR:620:U:H1'	2.21	0.40
1:AR:677:A:OP1	19:CS:89:ASP:HB3	2.21	0.40
1:AR:1103:A:O4'	9:CI:158:LYS:HG2	2.21	0.40
1:AR:1317:A:C4	1:AR:1319:G:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1579:C:N4	26:CZ:33:ARG:NH2	2.69	0.40
1:AR:1648:A:H2'	1:AR:1649:U:O4'	2.22	0.40
1:AR:1855:U:H2'	1:AR:1856:C:H6	1.86	0.40
1:AR:2245:C:H4'	4:CD:221:LYS:O	2.21	0.40
1:AR:2378:C:C2	1:AR:2379:U:C5	3.09	0.40
1:AR:2405:C:C4	1:AR:2406:C:C5	3.09	0.40
1:AR:2847:A:N7	1:AR:2898:G:C6	2.89	0.40
1:AR:2877:G:OP1	81:AR:3554:OHX:N6	2.54	0.40
1:AR:3238:G:N2	1:AR:3250:U:H1'	2.37	0.40
2:AS:33:U:C2	7:CG:207:TYR:CD1	3.10	0.40
5:CE:68:HIS:HE2	5:CE:69:LYS:HE3	1.87	0.40
6:CF:8:VAL:O	6:CF:16:THR:HB	2.22	0.40
7:CG:143:LYS:HG3	7:CG:172:TYR:HD2	1.87	0.40
8:CH:100:LYS:HE3	8:CH:105:TYR:CE2	2.55	0.40
10:CJ:74:THR:O	10:CJ:77:GLN:HG2	2.21	0.40
12:CL:140:THR:HG23	12:CL:141:LYS:O	2.21	0.40
13:CM:53:THR:HA	13:CM:59:ILE:O	2.21	0.40
14:CN:165:SER:C	14:CN:167:PHE:H	2.17	0.40
15:CO:66:THR:HG22	15:CO:68:LEU:N	2.35	0.40
17:CQ:149:TYR:O	17:CQ:153:VAL:HG13	2.21	0.40
18:CR:30:ARG:HD3	18:CR:30:ARG:C	2.47	0.40
19:CS:150:VAL:HA	19:CS:153:PHE:CD2	2.57	0.40
24:CX:77:ILE:HD13	24:CX:126:TRP:CD1	2.55	0.40
25:CY:4:GLU:HG3	25:CY:30:ARG:NH1	2.36	0.40
34:DH:103:TYR:HA	34:DH:104:PRO:C	2.47	0.40
36:DJ:70:TYR:CD2	36:DJ:77:PRO:HD3	2.56	0.40
43:DQ:18:ARG:HE	43:DQ:18:ARG:HB2	1.76	0.40
46:p0:95:GLU:O	46:p0:99:VAL:HG23	2.21	0.40
45:sM:57:ASN:HB3	66:c8:125:ILE:HD11	2.03	0.40
45:sM:68:ARG:NH1	45:sM:69:ARG:HB2	2.36	0.40
47:A:20:G:H5'	47:A:571:G:C8	2.56	0.40
47:A:114:C:O2'	59:M:65:SER:OG	2.35	0.40
47:A:177:U:H1'	54:H:191:ARG:NH2	2.36	0.40
47:A:262:U:H2'	47:A:263:C:C6	2.56	0.40
47:A:684:A:H5'	47:A:685:A:OP2	2.21	0.40
47:A:856:A:C6	55:I:116:ARG:HG2	2.57	0.40
47:A:890:C:OP2	81:A:2134:OHX:N3	2.55	0.40
47:A:1198:G:OP1	47:A:1199:G:H1'	2.21	0.40
47:A:1298:U:H2'	47:A:1299:G:O4'	2.21	0.40
47:A:1402:G:OP2	65:S:5:ARG:NH1	2.54	0.40
47:A:1615:C:OP1	76:d:47:PRO:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:A:1617:U:O2'	47:A:1618:C:H5'	2.21	0.40
47:A:1791:A:H3'	74:b:8:ASN:CB	2.52	0.40
50:D:230:TRP:NE1	70:X:68:ARG:HB3	2.36	0.40
51:E:80:ALA:O	51:E:81:PRO:C	2.64	0.40
51:E:135:GLU:HB2	51:E:157:LEU:HD21	2.03	0.40
55:I:131:PHE:HA	55:I:132:PRO:HA	1.91	0.40
56:J:82:VAL:HG22	56:J:196:LEU:CD2	2.51	0.40
58:L:59:PHE:CE2	58:L:62:GLN:HA	2.56	0.40
63:Q:79:HIS:HD2	63:Q:102:PHE:HE2	1.68	0.40
69:W:61:SER:H	69:W:61:SER:HG	1.58	0.40
70:X:21:GLY:C	75:c:3:LEU:HG	2.46	0.40
74:b:43:ASN:C	74:b:45:VAL:H	2.28	0.40
77:e:39:CYS:C	77:e:41:GLN:H	2.29	0.40
80:h:149:ASP:CB	80:h:175:ASP:HB3	2.43	0.40
47:sR:25:C:H4'	47:sR:25:C:OP2	2.21	0.40
47:sR:370:A:H2'	47:sR:371:G:O4'	2.21	0.40
47:sR:868:G:H5''	61:c3:91:LEU:HD21	2.04	0.40
47:sR:876:G:O2'	47:sR:944:A:H5'	2.22	0.40
47:sR:1064:G:H2'	47:sR:1065:A:C8	2.57	0.40
47:sR:1066:C:O3'	49:s1:149:GLN:HG3	2.21	0.40
47:sR:1305:U:O2	81:sR:1933:OHX:N4	2.54	0.40
80:Rb:25:THR:HA	80:Rb:73:LEU:HD23	2.03	0.40
80:Rb:134:TRP:CE3	80:Rb:140:CYS:HB2	2.56	0.40
48:s0:188:LEU:HD22	48:s0:188:LEU:HA	1.81	0.40
50:s2:229:LEU:O	69:d1:16:LYS:HE3	2.22	0.40
51:s3:61:GLU:O	51:s3:64:ARG:HG2	2.22	0.40
52:s4:121:TYR:CD2	52:s4:161:LYS:HE3	2.56	0.40
52:s4:251:GLU:HG2	52:s4:255:ARG:HH12	1.86	0.40
54:s6:152:ASP:HB3	54:s6:154:ARG:NH2	2.34	0.40
55:s7:121:VAL:HG23	55:s7:122:HIS:N	2.36	0.40
57:s9:8:TYR:CD1	57:s9:8:TYR:C	2.99	0.40
59:c1:78:THR:HA	59:c1:84:ILE:CG2	2.51	0.40
63:c5:52:LYS:HD2	63:c5:52:LYS:H	1.86	0.40
66:c8:87:ASN:OD1	66:c8:100:THR:HG22	2.21	0.40
66:c8:88:ARG:HH22	66:c8:112:ASP:CG	2.29	0.40
68:d0:64:LYS:HG2	68:d0:83:GLU:HG2	2.03	0.40
71:d3:85:ALA:HB2	71:d3:104:LEU:HD13	2.04	0.40
72:d4:19:ALA:HB1	72:d4:81:GLU:OE1	2.22	0.40
78:e0:20:LYS:HD2	78:e0:20:LYS:H	1.86	0.40

All (7) 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:AR:1242:G:O6	7:CG:206:GLN:NE2[2_746]	2.10	0.10
7:CG:217:GLU:OE2	41:DO:83:LYS:NZ[2_756]	2.12	0.08
10:CJ:111:LYS:NZ	47:sR:823:G:O2'[2_656]	2.12	0.08
11:CK:14:GLU:OE2	66:c8:79:TYR:OH[2_746]	2.14	0.06
1:1:3195:U:OP1	81:T:201:OHX:N1[2_545]	2.16	0.04
3:4:158:U:O2'	47:A:236:A:O2'[2_655]	2.16	0.04
13:CM:78:GLU:OE2	81:CK:201:OHX:N2[2_756]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	CD	250/254 (98%)	248 (99%)	2 (1%)	0	100	100
4	j	250/254 (98%)	250 (100%)	0	0	100	100
5	CE	384/387 (99%)	379 (99%)	5 (1%)	0	100	100
5	k	384/387 (99%)	377 (98%)	7 (2%)	0	100	100
6	CF	359/362 (99%)	356 (99%)	3 (1%)	0	100	100
6	l	359/362 (99%)	355 (99%)	4 (1%)	0	100	100
7	CG	290/297 (98%)	286 (99%)	4 (1%)	0	100	100
7	m	294/297 (99%)	287 (98%)	7 (2%)	0	100	100
8	CH	152/176 (86%)	151 (99%)	1 (1%)	0	100	100
8	n	152/176 (86%)	152 (100%)	0	0	100	100
9	CI	220/244 (90%)	218 (99%)	2 (1%)	0	100	100
9	o	220/244 (90%)	215 (98%)	5 (2%)	0	100	100
10	CJ	224/256 (88%)	224 (100%)	0	0	100	100
10	p	231/256 (90%)	231 (100%)	0	0	100	100
11	CK	189/191 (99%)	188 (100%)	1 (0%)	0	100	100
11	q	189/191 (99%)	188 (100%)	1 (0%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
12	CL	207/221 (94%)	204 (99%)	3 (1%)	0	100	100
12	r	207/221 (94%)	202 (98%)	5 (2%)	0	100	100
13	CM	167/174 (96%)	160 (96%)	7 (4%)	0	100	100
13	s	167/174 (96%)	163 (98%)	4 (2%)	0	100	100
14	CN	191/199 (96%)	179 (94%)	12 (6%)	0	100	100
14	t	191/199 (96%)	185 (97%)	6 (3%)	0	100	100
15	CO	134/138 (97%)	132 (98%)	2 (2%)	0	100	100
15	u	134/138 (97%)	132 (98%)	2 (2%)	0	100	100
16	CP	201/204 (98%)	201 (100%)	0	0	100	100
16	v	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
17	CQ	195/199 (98%)	195 (100%)	0	0	100	100
17	w	195/199 (98%)	195 (100%)	0	0	100	100
18	CR	153/184 (83%)	153 (100%)	0	0	100	100
18	x	181/184 (98%)	180 (99%)	1 (1%)	0	100	100
19	CS	183/186 (98%)	183 (100%)	0	0	100	100
19	y	183/186 (98%)	182 (100%)	1 (0%)	0	100	100
20	CT	186/189 (98%)	184 (99%)	2 (1%)	0	100	100
20	z	175/189 (93%)	175 (100%)	0	0	100	100
21	0	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
21	CU	170/172 (99%)	169 (99%)	1 (1%)	0	100	100
22	2	157/160 (98%)	155 (99%)	2 (1%)	0	100	100
22	CV	157/160 (98%)	155 (99%)	2 (1%)	0	100	100
23	5	98/121 (81%)	98 (100%)	0	0	100	100
23	CW	98/121 (81%)	97 (99%)	1 (1%)	0	100	100
24	6	134/137 (98%)	133 (99%)	1 (1%)	0	100	100
24	CX	134/137 (98%)	134 (100%)	0	0	100	100
25	7	63/155 (41%)	63 (100%)	0	0	100	100
25	CY	107/155 (69%)	106 (99%)	1 (1%)	0	100	100
26	8	119/142 (84%)	119 (100%)	0	0	100	100
26	CZ	115/142 (81%)	115 (100%)	0	0	100	100
27	9	124/127 (98%)	124 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	DA	122/127 (96%)	122 (100%)	0	0	100	100
28	AA	133/136 (98%)	130 (98%)	3 (2%)	0	100	100
28	DB	133/136 (98%)	130 (98%)	3 (2%)	0	100	100
29	AB	146/149 (98%)	140 (96%)	6 (4%)	0	100	100
29	DC	146/149 (98%)	141 (97%)	5 (3%)	0	100	100
30	AC	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
30	DD	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
31	AD	95/105 (90%)	95 (100%)	0	0	100	100
31	DE	95/105 (90%)	94 (99%)	1 (1%)	0	100	100
32	AE	107/113 (95%)	103 (96%)	4 (4%)	0	100	100
32	DF	107/113 (95%)	107 (100%)	0	0	100	100
33	AF	125/130 (96%)	125 (100%)	0	0	100	100
33	DG	125/130 (96%)	125 (100%)	0	0	100	100
34	AG	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
34	DH	104/107 (97%)	103 (99%)	1 (1%)	0	100	100
35	AH	109/121 (90%)	108 (99%)	0	1 (1%)	14	41
35	DI	110/121 (91%)	110 (100%)	0	0	100	100
36	AI	117/120 (98%)	117 (100%)	0	0	100	100
36	DJ	117/120 (98%)	117 (100%)	0	0	100	100
37	AJ	94/100 (94%)	93 (99%)	1 (1%)	0	100	100
37	DK	97/100 (97%)	95 (98%)	2 (2%)	0	100	100
38	AK	85/88 (97%)	85 (100%)	0	0	100	100
38	DL	84/88 (96%)	84 (100%)	0	0	100	100
39	AL	75/78 (96%)	75 (100%)	0	0	100	100
39	DM	75/78 (96%)	75 (100%)	0	0	100	100
40	AM	48/51 (94%)	48 (100%)	0	0	100	100
40	DN	48/51 (94%)	48 (100%)	0	0	100	100
41	AN	50/128 (39%)	50 (100%)	0	0	100	100
41	DO	50/128 (39%)	49 (98%)	1 (2%)	0	100	100
42	AO	23/25 (92%)	23 (100%)	0	0	100	100
42	DP	23/25 (92%)	23 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	AP	103/106 (97%)	102 (99%)	1 (1%)	0	100	100
43	DQ	103/106 (97%)	103 (100%)	0	0	100	100
44	AQ	89/92 (97%)	87 (98%)	2 (2%)	0	100	100
44	DR	89/92 (97%)	87 (98%)	2 (2%)	0	100	100
45	i	136/273 (50%)	135 (99%)	1 (1%)	0	100	100
45	sM	61/273 (22%)	57 (93%)	4 (7%)	0	100	100
46	p0	122/312 (39%)	121 (99%)	1 (1%)	0	100	100
48	B	204/252 (81%)	198 (97%)	6 (3%)	0	100	100
48	s0	204/252 (81%)	196 (96%)	8 (4%)	0	100	100
49	C	212/255 (83%)	207 (98%)	5 (2%)	0	100	100
49	s1	214/255 (84%)	213 (100%)	1 (0%)	0	100	100
50	D	215/254 (85%)	211 (98%)	3 (1%)	1 (0%)	24	54
50	s2	215/254 (85%)	213 (99%)	2 (1%)	0	100	100
51	E	221/240 (92%)	221 (100%)	0	0	100	100
51	s3	221/240 (92%)	214 (97%)	7 (3%)	0	100	100
52	F	258/261 (99%)	257 (100%)	1 (0%)	0	100	100
52	s4	258/261 (99%)	257 (100%)	1 (0%)	0	100	100
53	G	204/225 (91%)	197 (97%)	7 (3%)	0	100	100
53	s5	194/225 (86%)	190 (98%)	4 (2%)	0	100	100
54	H	224/236 (95%)	216 (96%)	8 (4%)	0	100	100
54	s6	216/236 (92%)	210 (97%)	6 (3%)	0	100	100
55	I	182/190 (96%)	180 (99%)	1 (0%)	1 (0%)	24	54
55	s7	184/190 (97%)	180 (98%)	4 (2%)	0	100	100
56	J	184/200 (92%)	178 (97%)	6 (3%)	0	100	100
56	s8	184/200 (92%)	181 (98%)	3 (2%)	0	100	100
57	K	183/197 (93%)	179 (98%)	4 (2%)	0	100	100
57	s9	183/197 (93%)	178 (97%)	5 (3%)	0	100	100
58	L	94/105 (90%)	91 (97%)	3 (3%)	0	100	100
58	c0	92/105 (88%)	88 (96%)	4 (4%)	0	100	100
59	M	140/156 (90%)	140 (100%)	0	0	100	100
59	c1	144/156 (92%)	142 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
60	N	122/143 (85%)	117 (96%)	5 (4%)	0	100	100
61	O	148/151 (98%)	147 (99%)	1 (1%)	0	100	100
61	c3	148/151 (98%)	145 (98%)	3 (2%)	0	100	100
62	P	125/138 (91%)	123 (98%)	1 (1%)	1 (1%)	16	44
62	c4	123/138 (89%)	122 (99%)	1 (1%)	0	100	100
63	Q	122/142 (86%)	114 (93%)	8 (7%)	0	100	100
63	c5	133/142 (94%)	126 (95%)	7 (5%)	0	100	100
64	R	139/143 (97%)	137 (99%)	2 (1%)	0	100	100
64	c6	140/143 (98%)	140 (100%)	0	0	100	100
65	S	116/136 (85%)	112 (97%)	4 (3%)	0	100	100
65	c7	113/136 (83%)	111 (98%)	2 (2%)	0	100	100
66	T	143/146 (98%)	138 (96%)	5 (4%)	0	100	100
66	c8	143/146 (98%)	137 (96%)	4 (3%)	2 (1%)	9	30
67	U	141/144 (98%)	141 (100%)	0	0	100	100
67	c9	141/144 (98%)	140 (99%)	1 (1%)	0	100	100
68	V	92/121 (76%)	90 (98%)	2 (2%)	0	100	100
68	d0	85/121 (70%)	85 (100%)	0	0	100	100
69	W	85/87 (98%)	81 (95%)	4 (5%)	0	100	100
69	d1	85/87 (98%)	82 (96%)	3 (4%)	0	100	100
70	X	127/130 (98%)	127 (100%)	0	0	100	100
70	d2	127/130 (98%)	126 (99%)	1 (1%)	0	100	100
71	Y	142/145 (98%)	132 (93%)	10 (7%)	0	100	100
71	d3	142/145 (98%)	138 (97%)	4 (3%)	0	100	100
72	Z	132/135 (98%)	131 (99%)	1 (1%)	0	100	100
72	d4	132/135 (98%)	125 (95%)	7 (5%)	0	100	100
73	a	68/108 (63%)	64 (94%)	4 (6%)	0	100	100
73	d5	67/108 (62%)	66 (98%)	1 (2%)	0	100	100
74	b	95/119 (80%)	88 (93%)	7 (7%)	0	100	100
74	d6	95/119 (80%)	90 (95%)	5 (5%)	0	100	100
75	c	79/82 (96%)	78 (99%)	1 (1%)	0	100	100
75	d7	79/82 (96%)	79 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
76	d	61/67 (91%)	61 (100%)	0	0	100	100
76	d8	61/67 (91%)	61 (100%)	0	0	100	100
77	d9	51/56 (91%)	50 (98%)	1 (2%)	0	100	100
77	e	51/56 (91%)	51 (100%)	0	0	100	100
78	e0	60/63 (95%)	59 (98%)	1 (2%)	0	100	100
78	f	58/63 (92%)	58 (100%)	0	0	100	100
79	e1	49/152 (32%)	48 (98%)	1 (2%)	0	100	100
79	g	69/152 (45%)	65 (94%)	3 (4%)	1 (1%)	9	30
80	Rb	316/319 (99%)	311 (98%)	5 (2%)	0	100	100
80	h	316/319 (99%)	310 (98%)	6 (2%)	0	100	100
All	All	21957/24477 (90%)	21604 (98%)	346 (2%)	7 (0%)	100	100

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
50	D	107	SER
55	I	111	LYS
62	P	42	VAL
66	c8	14	ILE
66	c8	92	ILE
35	AH	82	ALA
79	g	107	LYS

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	CD	193/196 (98%)	185 (96%)	8 (4%)	27	61
4	j	193/196 (98%)	189 (98%)	4 (2%)	47	77
5	CE	319/323 (99%)	306 (96%)	13 (4%)	27	61
5	k	319/323 (99%)	299 (94%)	20 (6%)	16	45

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	CF	288/289 (100%)	266 (92%)	22 (8%)	12	36
6	l	288/289 (100%)	273 (95%)	15 (5%)	21	52
7	CG	242/245 (99%)	229 (95%)	13 (5%)	20	51
7	m	244/245 (100%)	235 (96%)	9 (4%)	30	64
8	CH	134/153 (88%)	126 (94%)	8 (6%)	17	47
8	n	134/153 (88%)	129 (96%)	5 (4%)	30	64
9	CI	186/205 (91%)	175 (94%)	11 (6%)	18	48
9	o	186/205 (91%)	183 (98%)	3 (2%)	55	83
10	CJ	182/208 (88%)	175 (96%)	7 (4%)	29	64
10	p	187/208 (90%)	183 (98%)	4 (2%)	47	77
11	CK	171/171 (100%)	156 (91%)	15 (9%)	9	29
11	q	171/171 (100%)	162 (95%)	9 (5%)	20	52
12	CL	177/187 (95%)	172 (97%)	5 (3%)	38	72
12	r	177/187 (95%)	175 (99%)	2 (1%)	65	88
13	CM	147/151 (97%)	139 (95%)	8 (5%)	20	51
13	s	147/151 (97%)	141 (96%)	6 (4%)	27	61
14	CN	154/159 (97%)	147 (96%)	7 (4%)	24	58
14	t	154/159 (97%)	149 (97%)	5 (3%)	34	68
15	CO	107/109 (98%)	102 (95%)	5 (5%)	23	56
15	u	107/109 (98%)	104 (97%)	3 (3%)	38	72
16	CP	175/176 (99%)	175 (100%)	0	100	100
16	v	175/176 (99%)	170 (97%)	5 (3%)	37	71
17	CQ	160/162 (99%)	151 (94%)	9 (6%)	19	50
17	w	160/162 (99%)	154 (96%)	6 (4%)	29	64
18	CR	125/146 (86%)	118 (94%)	7 (6%)	19	50
18	x	140/146 (96%)	133 (95%)	7 (5%)	22	53
19	CS	150/151 (99%)	142 (95%)	8 (5%)	20	52
19	y	150/151 (99%)	144 (96%)	6 (4%)	28	62
20	CT	153/154 (99%)	149 (97%)	4 (3%)	40	73
20	z	144/154 (94%)	140 (97%)	4 (3%)	38	72
21	0	156/156 (100%)	149 (96%)	7 (4%)	24	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	CU	156/156 (100%)	144 (92%)	12 (8%)	12	35
22	2	136/137 (99%)	132 (97%)	4 (3%)	37	71
22	CV	136/137 (99%)	133 (98%)	3 (2%)	45	77
23	5	87/107 (81%)	85 (98%)	2 (2%)	44	76
23	CW	87/107 (81%)	83 (95%)	4 (5%)	24	57
24	6	104/105 (99%)	99 (95%)	5 (5%)	23	55
24	CX	104/105 (99%)	99 (95%)	5 (5%)	23	55
25	7	56/129 (43%)	55 (98%)	1 (2%)	51	80
25	CY	57/129 (44%)	57 (100%)	0	100	100
26	8	104/118 (88%)	102 (98%)	2 (2%)	50	79
26	CZ	102/118 (86%)	101 (99%)	1 (1%)	68	89
27	9	109/110 (99%)	106 (97%)	3 (3%)	38	72
27	DA	107/110 (97%)	102 (95%)	5 (5%)	23	56
28	AA	115/116 (99%)	112 (97%)	3 (3%)	40	73
28	DB	115/116 (99%)	108 (94%)	7 (6%)	17	46
29	AB	118/119 (99%)	111 (94%)	7 (6%)	18	48
29	DC	118/119 (99%)	113 (96%)	5 (4%)	26	60
30	AC	46/47 (98%)	46 (100%)	0	100	100
30	DD	46/47 (98%)	44 (96%)	2 (4%)	26	60
31	AD	81/88 (92%)	80 (99%)	1 (1%)	63	86
31	DE	81/88 (92%)	76 (94%)	5 (6%)	16	46
32	AE	92/97 (95%)	90 (98%)	2 (2%)	45	77
32	DF	92/97 (95%)	90 (98%)	2 (2%)	45	77
33	AF	109/111 (98%)	108 (99%)	1 (1%)	70	90
33	DG	109/111 (98%)	105 (96%)	4 (4%)	30	64
34	AG	89/91 (98%)	87 (98%)	2 (2%)	45	77
34	DH	90/91 (99%)	84 (93%)	6 (7%)	15	43
35	AH	94/103 (91%)	93 (99%)	1 (1%)	65	88
35	DI	95/103 (92%)	94 (99%)	1 (1%)	65	88
36	AI	104/105 (99%)	103 (99%)	1 (1%)	68	89
36	DJ	104/105 (99%)	100 (96%)	4 (4%)	29	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
37	AJ	78/82 (95%)	77 (99%)	1 (1%)	61	86
37	DK	81/82 (99%)	79 (98%)	2 (2%)	42	74
38	AK	70/71 (99%)	69 (99%)	1 (1%)	59	85
38	DL	70/71 (99%)	67 (96%)	3 (4%)	26	60
39	AL	68/69 (99%)	62 (91%)	6 (9%)	9	29
39	DM	68/69 (99%)	66 (97%)	2 (3%)	37	71
40	AM	45/46 (98%)	43 (96%)	2 (4%)	25	59
40	DN	45/46 (98%)	45 (100%)	0	100	100
41	AN	47/116 (40%)	47 (100%)	0	100	100
41	DO	47/116 (40%)	46 (98%)	1 (2%)	47	77
42	AO	23/23 (100%)	22 (96%)	1 (4%)	26	60
42	DP	23/23 (100%)	22 (96%)	1 (4%)	26	60
43	AP	90/91 (99%)	82 (91%)	8 (9%)	9	28
43	DQ	90/91 (99%)	87 (97%)	3 (3%)	33	67
44	AQ	71/72 (99%)	69 (97%)	2 (3%)	38	72
44	DR	71/72 (99%)	66 (93%)	5 (7%)	14	40
45	i	96/228 (42%)	91 (95%)	5 (5%)	21	52
45	sM	54/228 (24%)	50 (93%)	4 (7%)	13	38
46	p0	105/254 (41%)	100 (95%)	5 (5%)	23	55
48	B	160/210 (76%)	150 (94%)	10 (6%)	16	45
48	s0	165/210 (79%)	157 (95%)	8 (5%)	23	55
49	C	191/224 (85%)	183 (96%)	8 (4%)	26	60
49	s1	192/224 (86%)	183 (95%)	9 (5%)	23	56
50	D	176/205 (86%)	164 (93%)	12 (7%)	14	42
50	s2	176/205 (86%)	167 (95%)	9 (5%)	21	53
51	E	182/195 (93%)	177 (97%)	5 (3%)	39	73
51	s3	182/195 (93%)	174 (96%)	8 (4%)	25	59
52	F	221/222 (100%)	213 (96%)	8 (4%)	31	65
52	s4	221/222 (100%)	210 (95%)	11 (5%)	22	53
53	G	173/191 (91%)	166 (96%)	7 (4%)	28	62
53	s5	171/191 (90%)	164 (96%)	7 (4%)	27	61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	H	188/201 (94%)	178 (95%)	10 (5%)	20	52
54	s6	187/201 (93%)	180 (96%)	7 (4%)	30	64
55	I	165/170 (97%)	161 (98%)	4 (2%)	43	75
55	s7	165/170 (97%)	156 (94%)	9 (6%)	19	50
56	J	150/161 (93%)	146 (97%)	4 (3%)	39	73
56	s8	150/161 (93%)	148 (99%)	2 (1%)	61	86
57	K	158/166 (95%)	149 (94%)	9 (6%)	18	49
57	s9	158/166 (95%)	155 (98%)	3 (2%)	50	79
58	L	77/98 (79%)	72 (94%)	5 (6%)	15	44
58	c0	73/98 (74%)	67 (92%)	6 (8%)	10	32
59	M	129/137 (94%)	128 (99%)	1 (1%)	73	90
59	c1	129/137 (94%)	124 (96%)	5 (4%)	28	63
60	N	88/119 (74%)	83 (94%)	5 (6%)	18	49
61	O	127/128 (99%)	123 (97%)	4 (3%)	35	69
61	c3	127/128 (99%)	123 (97%)	4 (3%)	35	69
62	P	81/105 (77%)	73 (90%)	8 (10%)	7	24
62	c4	96/105 (91%)	94 (98%)	2 (2%)	47	77
63	Q	101/118 (86%)	98 (97%)	3 (3%)	36	70
63	c5	103/118 (87%)	96 (93%)	7 (7%)	14	42
64	R	117/119 (98%)	104 (89%)	13 (11%)	6	20
64	c6	118/119 (99%)	114 (97%)	4 (3%)	32	66
65	S	94/124 (76%)	92 (98%)	2 (2%)	47	77
65	c7	92/124 (74%)	87 (95%)	5 (5%)	20	51
66	T	128/129 (99%)	120 (94%)	8 (6%)	16	45
66	c8	128/129 (99%)	123 (96%)	5 (4%)	28	63
67	U	115/116 (99%)	109 (95%)	6 (5%)	21	52
67	c9	115/116 (99%)	114 (99%)	1 (1%)	70	90
68	V	89/114 (78%)	82 (92%)	7 (8%)	11	34
68	d0	84/114 (74%)	78 (93%)	6 (7%)	13	40
69	W	74/74 (100%)	69 (93%)	5 (7%)	14	42
69	d1	74/74 (100%)	70 (95%)	4 (5%)	20	51

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
70	X	110/111 (99%)	109 (99%)	1 (1%)	70	90
70	d2	110/111 (99%)	107 (97%)	3 (3%)	39	73
71	Y	119/120 (99%)	115 (97%)	4 (3%)	32	66
71	d3	119/120 (99%)	115 (97%)	4 (3%)	32	66
72	Z	112/113 (99%)	110 (98%)	2 (2%)	51	80
72	d4	112/113 (99%)	103 (92%)	9 (8%)	11	34
73	a	61/89 (68%)	57 (93%)	4 (7%)	15	43
73	d5	61/89 (68%)	56 (92%)	5 (8%)	10	32
74	b	83/100 (83%)	76 (92%)	7 (8%)	10	31
74	d6	83/100 (83%)	80 (96%)	3 (4%)	31	65
75	c	70/71 (99%)	65 (93%)	5 (7%)	13	40
75	d7	70/71 (99%)	68 (97%)	2 (3%)	37	71
76	d	56/60 (93%)	46 (82%)	10 (18%)	2	6
76	d8	56/60 (93%)	50 (89%)	6 (11%)	6	22
77	d9	47/49 (96%)	45 (96%)	2 (4%)	26	60
77	e	47/49 (96%)	44 (94%)	3 (6%)	16	44
78	e0	53/54 (98%)	52 (98%)	1 (2%)	50	79
78	f	51/54 (94%)	48 (94%)	3 (6%)	18	48
79	g	62/135 (46%)	57 (92%)	5 (8%)	11	33
80	Rb	260/262 (99%)	241 (93%)	19 (7%)	13	38
80	h	259/262 (99%)	243 (94%)	16 (6%)	16	46
All	All	18471/20424 (90%)	17668 (96%)	803 (4%)	26	60

All (803) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	j	95	SER
4	j	134	VAL
4	j	144	ASN
4	j	147	ARG
5	k	5	LYS
5	k	39	LYS
5	k	41	VAL
5	k	45	SER
5	k	72	VAL

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Mol	Chain	Res	Type
5	k	84	VAL
5	k	85	VAL
5	k	90	VAL
5	k	156	SER
5	k	157	VAL
5	k	174	LYS
5	k	192	VAL
5	k	202	THR
5	k	206	ASP
5	k	207	SER
5	k	236	LYS
5	k	274	SER
5	k	312	VAL
5	k	346	THR
5	k	355	SER
6	l	27	SER
6	l	60	THR
6	l	92	ASN
6	l	133	SER
6	l	151	VAL
6	l	233	LEU
6	l	251	THR
6	l	261	VAL
6	l	269	SER
6	l	287	THR
6	l	293	SER
6	l	313	LEU
6	l	324	LEU
6	l	349	THR
6	l	358	THR
7	m	66	SER
7	m	67	SER
7	m	70	THR
7	m	93	THR
7	m	155	THR
7	m	205	SER
7	m	234	ASP
7	m	245	GLU
7	m	278	SER
8	n	2	SER
8	n	12	SER
8	n	96	VAL

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Mol	Chain	Res	Type
8	n	109	GLU
8	n	152	THR
9	o	93	ASN
9	o	158	LYS
9	o	180	SER
10	p	66	SER
10	p	106	LYS
10	p	108	ARG
10	p	156	ASP
11	q	17	THR
11	q	18	VAL
11	q	19	SER
11	q	33	THR
11	q	44	THR
11	q	82	VAL
11	q	92	TYR
11	q	118	LEU
11	q	161	LEU
12	r	80	SER
12	r	163	GLN
13	s	7	ASN
13	s	12	LEU
13	s	28	ASP
13	s	107	ASP
13	s	161	SER
13	s	165	GLN
14	t	4	SER
14	t	6	ASN
14	t	80	VAL
14	t	134	GLU
14	t	175	SER
15	u	4	ASP
15	u	15	VAL
15	u	137	LYS
16	v	29	GLU
16	v	65	ARG
16	v	97	SER
16	v	167	THR
16	v	194	GLN
17	w	3	VAL
17	w	22	VAL
17	w	91	LYS

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Mol	Chain	Res	Type
17	w	116	LYS
17	w	117	ARG
17	w	126	VAL
18	x	18	ARG
18	x	24	VAL
18	x	32	THR
18	x	127	ARG
18	x	141	SER
18	x	144	SER
18	x	149	VAL
19	y	41	ASP
19	y	63	SER
19	y	64	VAL
19	y	81	VAL
19	y	135	GLN
19	y	176	ARG
20	z	68	GLN
20	z	104	ARG
20	z	127	SER
20	z	130	ASN
21	0	35	VAL
21	0	51	VAL
21	0	85	SER
21	0	132	THR
21	0	138	GLN
21	0	162	THR
21	0	169	SER
22	2	19	PHE
22	2	25	VAL
22	2	69	LYS
22	2	83	ARG
23	5	16	THR
23	5	98	THR
24	6	7	GLN
24	6	19	VAL
24	6	79	VAL
24	6	84	SER
24	6	118	VAL
25	7	26	SER
26	8	29	SER
26	8	49	LYS
27	9	5	SER

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Mol	Chain	Res	Type
27	9	59	VAL
27	9	74	TYR
28	AA	6	LYS
28	AA	72	ILE
28	AA	94	SER
29	AB	8	THR
29	AB	16	SER
29	AB	24	LYS
29	AB	46	ASP
29	AB	48	TYR
29	AB	77	LYS
29	AB	117	ARG
31	AD	52	ARG
32	AE	84	ASP
32	AE	100	SER
33	AF	51	SER
34	AG	37	THR
34	AG	78	SER
35	AH	51	LEU
36	AI	84	LYS
37	AJ	51	SER
38	AK	55	ARG
39	AL	40	GLN
39	AL	50	SER
39	AL	57	ASN
39	AL	66	ILE
39	AL	68	SER
39	AL	72	THR
40	AM	4	GLN
40	AM	41	ARG
42	AO	24	SER
43	AP	15	LYS
43	AP	16	THR
43	AP	26	THR
43	AP	35	LEU
43	AP	78	LYS
43	AP	93	LEU
43	AP	99	GLN
43	AP	104	LEU
44	AQ	60	CYS
44	AQ	81	SER
45	i	64	LYS

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Mol	Chain	Res	Type
45	i	88	ARG
45	i	102	THR
45	i	118	SER
45	i	140	ASP
4	CD	7	ASN
4	CD	8	GLN
4	CD	14	SER
4	CD	142	ASP
4	CD	143	GLU
4	CD	152	SER
4	CD	192	LYS
4	CD	230	VAL
5	CE	85	VAL
5	CE	95	THR
5	CE	104	THR
5	CE	192	VAL
5	CE	196	ARG
5	CE	221	THR
5	CE	235	THR
5	CE	274	SER
5	CE	297	SER
5	CE	301	THR
5	CE	341	SER
5	CE	355	SER
5	CE	363	SER
6	CF	25	VAL
6	CF	33	ASP
6	CF	77	VAL
6	CF	133	SER
6	CF	138	ARG
6	CF	151	VAL
6	CF	152	VAL
6	CF	154	THR
6	CF	176	SER
6	CF	200	THR
6	CF	202	ARG
6	CF	206	LEU
6	CF	207	VAL
6	CF	208	VAL
6	CF	227	THR
6	CF	248	VAL
6	CF	252	GLU

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Mol	Chain	Res	Type
6	CF	266	THR
6	CF	269	SER
6	CF	283	THR
6	CF	306	THR
6	CF	349	THR
7	CG	9	SER
7	CG	20	PHE
7	CG	92	LEU
7	CG	93	THR
7	CG	105	ILE
7	CG	118	THR
7	CG	155	THR
7	CG	222	LEU
7	CG	239	ILE
7	CG	241	THR
7	CG	247	ILE
7	CG	264	GLN
7	CG	269	SER
8	CH	8	LYS
8	CH	14	ASP
8	CH	21	THR
8	CH	91	VAL
8	CH	93	VAL
8	CH	103	VAL
8	CH	143	LYS
8	CH	162	SER
9	CI	93	ASN
9	CI	108	LEU
9	CI	142	SER
9	CI	158	LYS
9	CI	181	ILE
9	CI	216	VAL
9	CI	224	ILE
9	CI	232	ARG
9	CI	233	GLU
9	CI	236	ILE
9	CI	240	VAL
10	CJ	40	VAL
10	CJ	56	VAL
10	CJ	108	ARG
10	CJ	126	SER
10	CJ	195	SER

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Mol	Chain	Res	Type
10	CJ	197	VAL
10	CJ	202	GLU
11	CK	1	MET
11	CK	16	VAL
11	CK	33	THR
11	CK	55	VAL
11	CK	70	THR
11	CK	73	SER
11	CK	80	THR
11	CK	82	VAL
11	CK	101	VAL
11	CK	104	VAL
11	CK	105	GLU
11	CK	126	VAL
11	CK	133	THR
11	CK	138	THR
11	CK	151	VAL
12	CL	29	SER
12	CL	80	SER
12	CL	98	ARG
12	CL	143	SER
12	CL	205	SER
13	CM	17	LEU
13	CM	23	VAL
13	CM	38	GLU
13	CM	44	THR
13	CM	107	ASP
13	CM	137	ARG
13	CM	158	ASP
13	CM	161	SER
14	CN	4	SER
14	CN	5	LYS
14	CN	6	ASN
14	CN	63	VAL
14	CN	118	GLU
14	CN	121	SER
14	CN	153	ASP
15	CO	53	VAL
15	CO	64	VAL
15	CO	66	THR
15	CO	90	VAL
15	CO	120	VAL

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Mol	Chain	Res	Type
17	CQ	3	VAL
17	CQ	22	VAL
17	CQ	34	VAL
17	CQ	67	THR
17	CQ	140	LYS
17	CQ	152	VAL
17	CQ	162	VAL
17	CQ	178	VAL
17	CQ	180	SER
18	CR	7	THR
18	CR	9	THR
18	CR	24	VAL
18	CR	32	THR
18	CR	88	VAL
18	CR	105	LYS
18	CR	119	VAL
19	CS	40	THR
19	CS	55	SER
19	CS	63	SER
19	CS	80	THR
19	CS	81	VAL
19	CS	95	GLU
19	CS	124	LEU
19	CS	170	ARG
20	CT	30	SER
20	CT	139	VAL
20	CT	164	LEU
20	CT	166	ASN
21	CU	32	SER
21	CU	35	VAL
21	CU	45	LEU
21	CU	52	LYS
21	CU	77	VAL
21	CU	87	THR
21	CU	126	VAL
21	CU	135	VAL
21	CU	137	ARG
21	CU	140	VAL
21	CU	145	THR
21	CU	162	THR
22	CV	19	PHE
22	CV	36	VAL

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Mol	Chain	Res	Type
22	CV	83	ARG
23	CW	16	THR
23	CW	32	SER
23	CW	52	ASN
23	CW	97	SER
24	CX	13	ILE
24	CX	42	SER
24	CX	73	VAL
24	CX	124	ASP
24	CX	135	VAL
26	CZ	58	ASP
27	DA	62	SER
27	DA	67	GLU
27	DA	81	GLN
27	DA	97	ILE
27	DA	102	SER
28	DB	24	VAL
28	DB	33	SER
28	DB	36	HIS
28	DB	100	THR
28	DB	112	LYS
28	DB	128	GLN
28	DB	134	LEU
29	DC	16	SER
29	DC	26	ARG
29	DC	48	TYR
29	DC	55	LYS
29	DC	78	LEU
30	DD	26	THR
30	DD	31	SER
31	DE	20	SER
31	DE	43	ILE
31	DE	98	SER
31	DE	99	ASP
31	DE	102	THR
32	DF	96	VAL
32	DF	100	SER
33	DG	4	LEU
33	DG	12	LYS
33	DG	33	ARG
33	DG	73	THR
34	DH	4	SER

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Mol	Chain	Res	Type
34	DH	15	SER
34	DH	19	SER
34	DH	28	SER
34	DH	37	THR
34	DH	58	GLU
35	DI	68	THR
36	DJ	11	THR
36	DJ	83	LYS
36	DJ	84	LYS
36	DJ	101	THR
37	DK	42	SER
37	DK	89	GLU
38	DL	15	SER
38	DL	67	LEU
38	DL	87	SER
39	DM	31	LEU
39	DM	72	THR
41	DO	94	SER
42	DP	24	SER
43	DQ	7	THR
43	DQ	16	THR
43	DQ	17	CYS
44	DR	58	SER
44	DR	59	CYS
44	DR	62	LYS
44	DR	81	SER
44	DR	82	THR
46	p0	34	SER
46	p0	57	THR
46	p0	69	ASP
46	p0	93	LEU
46	p0	100	ILE
45	sM	41	SER
45	sM	45	SER
45	sM	77	THR
45	sM	83	LYS
48	B	10	THR
48	B	45	VAL
48	B	88	LYS
48	B	92	HIS
48	B	96	THR
48	B	122	ILE

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Mol	Chain	Res	Type
48	B	158	VAL
48	B	168	HIS
48	B	188	LEU
48	B	196	SER
49	C	25	THR
49	C	32	ILE
49	C	48	VAL
49	C	54	LEU
49	C	78	ASP
49	C	100	PHE
49	C	169	SER
49	C	219	LYS
50	D	39	THR
50	D	53	ILE
50	D	65	GLU
50	D	83	ILE
50	D	146	THR
50	D	150	GLN
50	D	156	THR
50	D	224	PHE
50	D	226	THR
50	D	240	LEU
50	D	241	ASP
50	D	246	GLU
51	E	21	LEU
51	E	86	LEU
51	E	173	ARG
51	E	196	ARG
51	E	221	SER
52	F	76	VAL
52	F	78	THR
52	F	158	ASP
52	F	191	ARG
52	F	206	ASP
52	F	217	THR
52	F	240	LYS
52	F	261	LEU
53	G	41	LYS
53	G	109	LYS
53	G	123	VAL
53	G	181	GLU
53	G	186	ASN

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Mol	Chain	Res	Type
53	G	223	SER
53	G	224	ASN
54	H	12	SER
54	H	67	VAL
54	H	82	SER
54	H	119	GLN
54	H	128	THR
54	H	148	SER
54	H	175	ILE
54	H	196	ARG
54	H	201	GLN
54	H	210	GLN
55	I	10	SER
55	I	50	ASP
55	I	79	ARG
55	I	148	LYS
56	J	4	SER
56	J	11	ARG
56	J	158	SER
56	J	161	SER
57	K	3	ARG
57	K	22	SER
57	K	37	LYS
57	K	46	SER
57	K	68	LYS
57	K	70	LEU
57	K	86	LEU
57	K	134	ILE
57	K	148	VAL
58	L	17	GLN
58	L	22	VAL
58	L	40	LEU
58	L	55	VAL
58	L	80	LEU
59	M	26	LYS
60	N	50	LYS
60	N	58	LEU
60	N	81	ASP
60	N	88	LEU
60	N	136	ILE
61	O	3	ARG
61	O	28	LEU

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Mol	Chain	Res	Type
61	O	30	SER
61	O	120	SER
62	P	16	VAL
62	P	29	HIS
62	P	30	VAL
62	P	39	ILE
62	P	48	VAL
62	P	80	HIS
62	P	103	ARG
62	P	137	LEU
63	Q	26	LEU
63	Q	29	SER
63	Q	106	GLU
64	R	8	GLN
64	R	12	LYS
64	R	13	LYS
64	R	38	LEU
64	R	52	LEU
64	R	57	LEU
64	R	61	SER
64	R	76	SER
64	R	83	GLN
64	R	113	ASP
64	R	118	ILE
64	R	121	SER
64	R	139	GLN
65	S	27	ASP
65	S	40	THR
66	T	7	GLU
66	T	20	THR
66	T	36	LYS
66	T	49	LYS
66	T	61	LEU
66	T	72	ILE
66	T	99	HIS
66	T	123	ARG
67	U	36	ILE
67	U	79	LEU
67	U	125	SER
67	U	127	ASN
67	U	132	LEU
67	U	135	ILE

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Mol	Chain	Res	Type
68	V	20	ILE
68	V	37	VAL
68	V	56	VAL
68	V	62	VAL
68	V	91	ILE
68	V	93	LEU
68	V	118	VAL
69	W	42	GLU
69	W	49	GLU
69	W	51	VAL
69	W	61	SER
69	W	68	SER
70	X	26	LEU
71	Y	14	LYS
71	Y	66	SER
71	Y	90	ASP
71	Y	98	GLU
72	Z	78	SER
72	Z	84	LYS
73	a	42	LEU
73	a	69	LEU
73	a	71	ILE
73	a	93	SER
74	b	8	ASN
74	b	45	VAL
74	b	54	SER
74	b	64	LEU
74	b	75	VAL
74	b	76	SER
74	b	83	ILE
75	c	7	LEU
75	c	33	LEU
75	c	61	THR
75	c	72	LYS
75	c	73	LEU
76	d	5	THR
76	d	15	VAL
76	d	26	THR
76	d	28	VAL
76	d	40	ILE
76	d	41	VAL
76	d	44	VAL

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Mol	Chain	Res	Type
76	d	54	LEU
76	d	56	LEU
76	d	59	SER
77	e	9	SER
77	e	23	VAL
77	e	46	LYS
78	f	16	SER
78	f	48	THR
78	f	49	LEU
79	g	108	VAL
79	g	114	VAL
79	g	121	CYS
79	g	140	TYR
79	g	149	LYS
80	h	16	HIS
80	h	37	SER
80	h	38	ARG
80	h	48	THR
80	h	60	SER
80	h	99	THR
80	h	112	SER
80	h	116	ASP
80	h	123	ILE
80	h	134	TRP
80	h	153	GLN
80	h	164	ASP
80	h	182	ASN
80	h	195	HIS
80	h	300	THR
80	h	317	THR
80	Rb	9	LEU
80	Rb	114	ASP
80	Rb	115	ILE
80	Rb	129	LYS
80	Rb	141	LEU
80	Rb	161	LYS
80	Rb	164	ASP
80	Rb	165	ASP
80	Rb	188	ILE
80	Rb	196	ASN
80	Rb	197	SER
80	Rb	203	THR

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Mol	Chain	Res	Type
80	Rb	222	LEU
80	Rb	245	PHE
80	Rb	291	SER
80	Rb	297	ASP
80	Rb	302	PHE
80	Rb	311	ARG
80	Rb	317	THR
48	s0	34	GLU
48	s0	96	THR
48	s0	101	ARG
48	s0	168	HIS
48	s0	177	LEU
48	s0	184	LEU
48	s0	191	ARG
48	s0	196	SER
49	s1	61	LEU
49	s1	65	VAL
49	s1	81	PHE
49	s1	159	SER
49	s1	169	SER
49	s1	173	THR
49	s1	185	THR
49	s1	194	ASN
49	s1	209	ASN
50	s2	60	SER
50	s2	101	VAL
50	s2	107	SER
50	s2	119	LYS
50	s2	141	ARG
50	s2	154	LEU
50	s2	166	THR
50	s2	218	ILE
50	s2	238	SER
51	s3	41	VAL
51	s3	57	ASP
51	s3	71	LEU
51	s3	85	VAL
51	s3	142	LEU
51	s3	143	ARG
51	s3	162	GLN
51	s3	217	ILE
52	s4	24	SER

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Mol	Chain	Res	Type
52	s4	42	LEU
52	s4	97	GLU
52	s4	174	LYS
52	s4	181	VAL
52	s4	197	HIS
52	s4	206	ASP
52	s4	244	ILE
52	s4	246	LEU
52	s4	247	SER
52	s4	255	ARG
53	s5	41	LYS
53	s5	66	GLN
53	s5	69	PHE
53	s5	207	THR
53	s5	217	LEU
53	s5	220	VAL
53	s5	222	LYS
54	s6	18	ILE
54	s6	68	LEU
54	s6	112	VAL
54	s6	160	ARG
54	s6	163	THR
54	s6	194	LYS
54	s6	201	GLN
55	s7	16	LEU
55	s7	25	VAL
55	s7	45	SER
55	s7	55	LYS
55	s7	63	PRO
55	s7	84	LYS
55	s7	103	SER
55	s7	148	LYS
55	s7	182	VAL
56	s8	49	ARG
56	s8	155	SER
57	s9	66	ASP
57	s9	103	ASP
57	s9	111	THR
58	c0	11	ILE
58	c0	15	LEU
58	c0	27	PHE
58	c0	60	SER

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Mol	Chain	Res	Type
58	c0	67	THR
58	c0	73	VAL
59	c1	6	THR
59	c1	21	ASN
59	c1	31	THR
59	c1	52	SER
59	c1	60	PHE
61	c3	3	ARG
61	c3	12	SER
61	c3	54	LEU
61	c3	97	SER
62	c4	79	VAL
62	c4	137	LEU
63	c5	29	SER
63	c5	34	VAL
63	c5	59	LYS
63	c5	69	GLU
63	c5	76	VAL
63	c5	126	VAL
63	c5	128	HIS
64	c6	14	LYS
64	c6	15	SER
64	c6	54	LEU
64	c6	57	LEU
65	c7	3	ARG
65	c7	76	GLU
65	c7	89	SER
65	c7	105	GLN
65	c7	107	SER
66	c8	5	VAL
66	c8	15	LEU
66	c8	22	VAL
66	c8	62	THR
66	c8	92	ILE
67	c9	117	SER
68	d0	34	LEU
68	d0	39	SER
68	d0	50	LEU
68	d0	52	LYS
68	d0	77	LYS
68	d0	102	ARG
69	d1	5	LYS

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Mol	Chain	Res	Type
69	d1	12	TYR
69	d1	17	CYS
69	d1	56	SER
70	d2	6	VAL
70	d2	26	LEU
70	d2	113	HIS
71	d3	40	SER
71	d3	107	PHE
71	d3	117	ILE
71	d3	145	SER
72	d4	10	ARG
72	d4	58	PHE
72	d4	74	LEU
72	d4	77	ASN
72	d4	78	SER
72	d4	96	LEU
72	d4	104	SER
72	d4	128	LYS
72	d4	133	ASN
73	d5	48	ASP
73	d5	61	SER
73	d5	69	LEU
73	d5	93	SER
73	d5	105	THR
74	d6	10	ARG
74	d6	62	TYR
74	d6	76	SER
75	d7	2	VAL
75	d7	56	CYS
76	d8	16	LEU
76	d8	26	THR
76	d8	31	GLU
76	d8	43	ASN
76	d8	56	LEU
76	d8	66	LEU
77	d9	19	ARG
77	d9	23	VAL
78	e0	7	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (310) such sidechains are listed below:

Mol	Chain	Res	Type
4	j	132	ASN
4	j	205	ASN
4	j	211	HIS
5	k	163	HIS
5	k	173	GLN
5	k	198	HIS
6	l	116	ASN
6	l	213	ASN
6	l	260	GLN
6	l	296	GLN
7	m	32	GLN
7	m	244	HIS
8	n	28	GLN
8	n	167	ASN
9	o	64	GLN
9	o	159	GLN
10	p	38	GLN
10	p	221	ASN
11	q	8	GLN
11	q	59	ASN
11	q	96	HIS
11	q	102	ASN
11	q	157	ASN
12	r	59	GLN
12	r	73	ASN
12	r	144	ASN
13	s	6	GLN
13	s	150	ASN
14	t	112	ASN
16	v	117	ASN
17	w	42	ASN
18	x	54	HIS
18	x	55	GLN
18	x	96	GLN
18	x	133	HIS
18	x	179	GLN
19	y	145	ASN
20	z	7	GLN
21	0	46	GLN
21	0	108	GLN
21	0	157	GLN
22	2	131	GLN
23	5	49	ASN

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Mol	Chain	Res	Type
23	5	87	ASN
23	5	101	ASN
24	6	81	GLN
25	7	42	GLN
25	7	59	HIS
26	8	80	ASN
26	8	85	GLN
27	9	26	GLN
27	9	81	GLN
28	AA	57	HIS
29	AB	38	GLN
30	AC	48	HIS
32	AE	15	ASN
32	AE	43	HIS
32	AE	105	GLN
33	AF	35	GLN
33	AF	49	ASN
33	AF	52	GLN
33	AF	104	ASN
34	AG	106	ASN
36	AI	20	GLN
36	AI	99	GLN
36	AI	104	GLN
37	AJ	12	ASN
38	AK	13	ASN
38	AK	28	HIS
38	AK	57	HIS
38	AK	79	GLN
39	AL	67	GLN
40	AM	19	GLN
40	AM	25	GLN
40	AM	33	ASN
43	AP	3	ASN
43	AP	102	GLN
44	AQ	33	GLN
45	i	86	ASN
4	CD	47	GLN
4	CD	79	ASN
5	CE	121	ASN
5	CE	165	GLN
5	CE	173	GLN
5	CE	231	HIS

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Mol	Chain	Res	Type
6	CF	45	ASN
6	CF	87	GLN
6	CF	296	GLN
6	CF	361	HIS
7	CG	264	GLN
7	CG	274	GLN
8	CH	57	HIS
8	CH	138	GLN
9	CI	81	HIS
9	CI	194	HIS
10	CJ	45	ASN
10	CJ	95	ASN
11	CK	125	ASN
11	CK	157	ASN
11	CK	183	HIS
12	CL	12	GLN
13	CM	43	GLN
13	CM	150	ASN
14	CN	19	GLN
15	CO	41	GLN
15	CO	59	ASN
15	CO	126	GLN
16	CP	11	GLN
16	CP	32	GLN
16	CP	57	GLN
16	CP	117	ASN
16	CP	138	GLN
17	CQ	26	GLN
17	CQ	50	ASN
17	CQ	182	ASN
18	CR	45	GLN
18	CR	50	GLN
18	CR	54	HIS
18	CR	55	GLN
18	CR	101	ASN
18	CR	137	ASN
19	CS	136	ASN
20	CT	3	ASN
20	CT	39	ASN
20	CT	66	HIS
20	CT	166	ASN
21	CU	46	GLN

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Mol	Chain	Res	Type
21	CU	138	GLN
21	CU	157	GLN
22	CV	16	GLN
22	CV	26	HIS
23	CW	49	ASN
23	CW	101	ASN
25	CY	42	GLN
25	CY	58	HIS
27	DA	120	GLN
28	DB	106	GLN
28	DB	122	HIS
28	DB	127	ASN
29	DC	11	HIS
29	DC	28	HIS
29	DC	65	GLN
29	DC	120	ASN
30	DD	12	GLN
30	DD	19	ASN
30	DD	42	ASN
31	DE	11	ASN
31	DE	71	GLN
33	DG	52	GLN
34	DH	26	ASN
34	DH	88	ASN
35	DI	33	GLN
35	DI	52	GLN
36	DJ	62	GLN
36	DJ	68	GLN
36	DJ	99	GLN
37	DK	35	ASN
38	DL	12	HIS
38	DL	69	HIS
39	DM	10	GLN
39	DM	67	GLN
39	DM	76	ASN
43	DQ	20	HIS
43	DQ	102	GLN
46	p0	103	ASN
46	p0	195	GLN
45	sM	29	ASN
48	B	46	HIS
48	B	49	ASN

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Mol	Chain	Res	Type
48	B	140	ASN
48	B	164	ASN
49	C	92	GLN
49	C	95	ASN
49	C	118	GLN
49	C	146	GLN
49	C	149	GLN
49	C	199	ASN
49	C	209	ASN
49	C	211	HIS
51	E	22	ASN
51	E	74	GLN
51	E	162	GLN
51	E	165	ASN
52	F	36	HIS
52	F	224	ASN
52	F	259	GLN
53	G	44	ASN
53	G	66	GLN
53	G	95	ASN
53	G	169	ASN
54	H	59	GLN
55	I	11	GLN
55	I	147	ASN
55	I	150	GLN
55	I	180	GLN
56	J	9	HIS
56	J	52	ASN
56	J	87	ASN
56	J	88	ASN
56	J	94	ASN
56	J	116	HIS
56	J	138	ASN
58	L	47	GLN
58	L	58	GLN
59	M	14	GLN
59	M	81	HIS
59	M	92	HIS
59	M	127	GLN
61	O	105	ASN
62	P	29	HIS
64	R	32	ASN

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Mol	Chain	Res	Type
64	R	74	HIS
64	R	77	GLN
64	R	83	GLN
65	S	31	ASN
65	S	48	ASN
65	S	62	GLN
65	S	74	GLN
66	T	44	ASN
66	T	89	GLN
66	T	104	ASN
66	T	137	HIS
68	V	40	ASN
69	W	21	ASN
69	W	35	ASN
70	X	15	ASN
72	Z	15	ASN
72	Z	29	HIS
72	Z	34	ASN
72	Z	63	GLN
74	b	69	ASN
75	c	5	GLN
75	c	42	ASN
75	c	49	HIS
75	c	51	GLN
76	d	43	ASN
77	e	20	GLN
77	e	53	ASN
80	h	4	ASN
80	h	66	HIS
80	h	69	GLN
80	h	153	GLN
80	h	184	ASN
80	Rb	31	ASN
80	Rb	69	GLN
80	Rb	174	ASN
80	Rb	195	HIS
80	Rb	198	ASN
80	Rb	224	ASN
48	s0	33	GLN
48	s0	109	ASN
48	s0	163	ASN
49	s1	74	GLN

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Mol	Chain	Res	Type
49	s1	149	GLN
49	s1	183	GLN
49	s1	208	GLN
50	s2	59	HIS
50	s2	189	GLN
51	s3	165	ASN
52	s4	216	ASN
53	s5	34	GLN
53	s5	79	ASN
53	s5	100	ASN
53	s5	127	GLN
54	s6	139	ASN
54	s6	140	ASN
55	s7	110	GLN
56	s8	64	ASN
56	s8	87	ASN
56	s8	103	GLN
56	s8	116	HIS
57	s9	112	GLN
57	s9	123	HIS
58	c0	9	ASN
58	c0	58	GLN
59	c1	92	HIS
59	c1	106	ASN
59	c1	110	HIS
59	c1	138	ASN
61	c3	5	HIS
61	c3	36	GLN
61	c3	58	HIS
63	c5	104	GLN
64	c6	21	HIS
64	c6	77	GLN
65	c7	74	GLN
65	c7	101	ASN
65	c7	104	ASN
66	c8	21	ASN
66	c8	63	GLN
66	c8	74	GLN
66	c8	89	GLN
66	c8	104	ASN
67	c9	43	ASN
67	c9	138	GLN

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Mol	Chain	Res	Type
69	d1	3	ASN
69	d1	33	GLN
69	d1	70	ASN
69	d1	74	GLN
70	d2	12	ASN
70	d2	15	ASN
70	d2	39	GLN
71	d3	21	ASN
71	d3	75	GLN
72	d4	106	GLN
74	d6	43	ASN
75	d7	5	GLN
75	d7	42	ASN
76	d8	27	GLN
78	e0	63	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3145/3149 (99%)	574 (18%)	43 (1%)
1	AR	3125/3149 (99%)	559 (17%)	45 (1%)
2	3	120/121 (99%)	12 (10%)	0
2	AS	120/121 (99%)	18 (15%)	1 (0%)
3	4	157/158 (99%)	32 (20%)	2 (1%)
3	AT	157/158 (99%)	30 (19%)	1 (0%)
47	A	1735/1800 (96%)	442 (25%)	38 (2%)
47	sR	1780/1800 (98%)	429 (24%)	0
All	All	10339/10456 (98%)	2096 (20%)	130 (1%)

All (2096) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	26	A
1	1	40	A
1	1	49	A
1	1	59	G
1	1	60	A
1	1	65	A
1	1	66	A
1	1	72	C
1	1	73	C

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Mol	Chain	Res	Type
1	1	76	G
1	1	92	G
1	1	99	A
1	1	109	A
1	1	110	G
1	1	113	C
1	1	116	A
1	1	117	U
1	1	121	A
1	1	122	A
1	1	133	U
1	1	135	C
1	1	136	G
1	1	147	U
1	1	156	G
1	1	157	A
1	1	161	G
1	1	165	A
1	1	166	C
1	1	170	G
1	1	187	A
1	1	190	U
1	1	191	U
1	1	192	C
1	1	201	A
1	1	210	U
1	1	213	A
1	1	218	G
1	1	219	A
1	1	220	G
1	1	237	G
1	1	240	U
1	1	241	G
1	1	243	G
1	1	246	U
1	1	250	U
1	1	251	G
1	1	252	U
1	1	269	G
1	1	282	G
1	1	283	G
1	1	286	U

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Mol	Chain	Res	Type
1	1	295	A
1	1	298	U
1	1	299	G
1	1	305	U
1	1	323	A
1	1	329	U
1	1	339	C
1	1	349	A
1	1	350	C
1	1	351	A
1	1	375	A
1	1	376	G
1	1	398	A
1	1	399	A
1	1	401	U
1	1	402	A
1	1	403	C
1	1	404	G
1	1	421	G
1	1	422	A
1	1	438	A
1	1	440	A
1	1	495	G
1	1	520	U
1	1	521	A
1	1	535	G
1	1	544	C
1	1	545	U
1	1	546	C
1	1	547	G
1	1	548	G
1	1	551	A
1	1	552	G
1	1	553	U
1	1	555	U
1	1	557	A
1	1	559	A
1	1	578	A
1	1	579	G
1	1	591	G
1	1	592	A
1	1	600	G

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Mol	Chain	Res	Type
1	1	604	G
1	1	609	G
1	1	611	A
1	1	620	U
1	1	621	A
1	1	636	C
1	1	638	C
1	1	649	A
1	1	660	A
1	1	661	G
1	1	677	A
1	1	681	U
1	1	705	A
1	1	712	G
1	1	715	A
1	1	716	A
1	1	719	U
1	1	763	G
1	1	764	U
1	1	766	U
1	1	767	U
1	1	776	U
1	1	777	U
1	1	780	A
1	1	781	G
1	1	785	G
1	1	806	A
1	1	817	A
1	1	830	A
1	1	837	A
1	1	842	G
1	1	849	C
1	1	861	C
1	1	874	U
1	1	879	U
1	1	890	C
1	1	896	A
1	1	907	G
1	1	908	G
1	1	914	A
1	1	916	G
1	1	917	A

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Mol	Chain	Res	Type
1	1	921	A
1	1	923	C
1	1	924	G
1	1	937	G
1	1	944	C
1	1	953	G
1	1	959	C
1	1	960	U
1	1	963	G
1	1	974	G
1	1	979	U
1	1	980	A
1	1	981	U
1	1	982	C
1	1	993	G
1	1	994	G
1	1	1000	C
1	1	1001	G
1	1	1002	A
1	1	1006	A
1	1	1010	G
1	1	1014	U
1	1	1015	U
1	1	1017	C
1	1	1018	G
1	1	1020	G
1	1	1021	G
1	1	1024	G
1	1	1025	A
1	1	1029	G
1	1	1032	C
1	1	1036	A
1	1	1041	U
1	1	1047	A
1	1	1049	C
1	1	1057	A
1	1	1063	G
1	1	1064	A
1	1	1065	A
1	1	1071	U
1	1	1072	G
1	1	1081	U

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Mol	Chain	Res	Type
1	1	1082	U
1	1	1083	G
1	1	1093	A
1	1	1094	U
1	1	1095	U
1	1	1097	G
1	1	1098	A
1	1	1103	A
1	1	1104	G
1	1	1117	G
1	1	1131	G
1	1	1153	A
1	1	1159	A
1	1	1168	U
1	1	1180	A
1	1	1181	U
1	1	1182	A
1	1	1186	G
1	1	1190	A
1	1	1191	U
1	1	1192	C
1	1	1197	A
1	1	1201	C
1	1	1206	G
1	1	1209	G
1	1	1217	A
1	1	1221	A
1	1	1222	G
1	1	1227	C
1	1	1232	C
1	1	1236	G
1	1	1237	G
1	1	1239	C
1	1	1241	U
1	1	1243	G
1	1	1245	A
1	1	1246	G
1	1	1248	C
1	1	1249	G
1	1	1253	U
1	1	1254	C
1	1	1258	U

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Mol	Chain	Res	Type
1	1	1262	G
1	1	1263	A
1	1	1264	G
1	1	1265	U
1	1	1267	U
1	1	1269	U
1	1	1270	A
1	1	1271	A
1	1	1272	C
1	1	1274	A
1	1	1278	A
1	1	1279	C
1	1	1285	G
1	1	1286	A
1	1	1287	A
1	1	1292	C
1	1	1307	G
1	1	1308	A
1	1	1309	U
1	1	1313	G
1	1	1330	A
1	1	1348	U
1	1	1349	G
1	1	1350	A
1	1	1351	U
1	1	1352	A
1	1	1353	U
1	1	1355	A
1	1	1356	U
1	1	1357	G
1	1	1386	A
1	1	1399	A
1	1	1400	G
1	1	1417	G
1	1	1419	A
1	1	1425	U
1	1	1429	G
1	1	1434	G
1	1	1437	C
1	1	1446	A
1	1	1450	G
1	1	1475	A

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Mol	Chain	Res	Type
1	1	1477	A
1	1	1481	A
1	1	1482	A
1	1	1488	G
1	1	1508	C
1	1	1527	C
1	1	1536	G
1	1	1555	U
1	1	1556	C
1	1	1560	G
1	1	1561	G
1	1	1562	C
1	1	1563	C
1	1	1567	U
1	1	1568	U
1	1	1569	U
1	1	1570	U
1	1	1572	U
1	1	1575	A
1	1	1578	C
1	1	1579	C
1	1	1580	A
1	1	1581	C
1	1	1582	C
1	1	1583	A
1	1	1587	A
1	1	1589	A
1	1	1620	U
1	1	1629	U
1	1	1639	C
1	1	1643	A
1	1	1657	C
1	1	1683	A
1	1	1714	A
1	1	1715	A
1	1	1716	U
1	1	1717	U
1	1	1724	U
1	1	1729	A
1	1	1736	G
1	1	1742	U
1	1	1745	C

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Mol	Chain	Res	Type
1	1	1750	A
1	1	1751	G
1	1	1760	A
1	1	1761	C
1	1	1762	C
1	1	1763	U
1	1	1765	U
1	1	1766	G
1	1	1767	C
1	1	1769	G
1	1	1770	G
1	1	1775	G
1	1	1779	C
1	1	1780	G
1	1	1797	A
1	1	1809	A
1	1	1810	A
1	1	1814	A
1	1	1815	U
1	1	1816	A
1	1	1819	U
1	1	1820	U
1	1	1821	U
1	1	1839	A
1	1	1842	A
1	1	1846	C
1	1	1847	A
1	1	1866	C
1	1	1878	G
1	1	1879	A
1	1	1880	U
1	1	1883	A
1	1	1906	G
1	1	1948	G
1	1	1951	C
1	1	1952	G
1	1	1953	G
1	1	2094	C
1	1	2097	U
1	1	2101	C
1	1	2102	U
1	1	2111	G

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Mol	Chain	Res	Type
1	1	2113	A
1	1	2120	A
1	1	2121	G
1	1	2122	G
1	1	2131	A
1	1	2140	U
1	1	2158	A
1	1	2169	G
1	1	2170	U
1	1	2188	A
1	1	2205	U
1	1	2208	A
1	1	2210	G
1	1	2223	A
1	1	2228	A
1	1	2244	A
1	1	2249	G
1	1	2250	G
1	1	2255	A
1	1	2256	A
1	1	2272	G
1	1	2273	G
1	1	2279	A
1	1	2281	A
1	1	2282	U
1	1	2307	G
1	1	2310	U
1	1	2313	A
1	1	2314	U
1	1	2315	G
1	1	2334	U
1	1	2336	U
1	1	2361	A
1	1	2373	A
1	1	2374	C
1	1	2375	G
1	1	2385	G
1	1	2388	U
1	1	2393	G
1	1	2397	A
1	1	2401	A
1	1	2402	A

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Mol	Chain	Res	Type
1	1	2403	G
1	1	2404	A
1	1	2411	U
1	1	2414	G
1	1	2418	G
1	1	2419	A
1	1	2435	G
1	1	2443	A
1	1	2444	C
1	1	2445	A
1	1	2502	A
1	1	2503	G
1	1	2514	U
1	1	2515	A
1	1	2522	G
1	1	2523	A
1	1	2532	U
1	1	2533	G
1	1	2534	G
1	1	2537	U
1	1	2538	U
1	1	2539	C
1	1	2540	A
1	1	2541	U
1	1	2542	U
1	1	2543	U
1	1	2544	U
1	1	2547	A
1	1	2549	G
1	1	2552	C
1	1	2554	A
1	1	2555	G
1	1	2561	A
1	1	2569	A
1	1	2570	U
1	1	2571	U
1	1	2572	C
1	1	2573	G
1	1	2585	G
1	1	2593	A
1	1	2594	C
1	1	2606	G

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Mol	Chain	Res	Type
1	1	2607	G
1	1	2614	G
1	1	2637	A
1	1	2652	U
1	1	2656	A
1	1	2674	A
1	1	2677	G
1	1	2689	A
1	1	2691	A
1	1	2694	A
1	1	2696	A
1	1	2714	G
1	1	2719	U
1	1	2728	G
1	1	2729	U
1	1	2752	U
1	1	2753	G
1	1	2755	C
1	1	2762	A
1	1	2772	C
1	1	2777	G
1	1	2778	G
1	1	2796	G
1	1	2799	A
1	1	2800	G
1	1	2801	A
1	1	2802	A
1	1	2808	A
1	1	2810	C
1	1	2815	G
1	1	2817	A
1	1	2818	U
1	1	2819	A
1	1	2829	U
1	1	2842	U
1	1	2843	U
1	1	2845	A
1	1	2847	A
1	1	2849	C
1	1	2853	A
1	1	2860	U
1	1	2867	C

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Mol	Chain	Res	Type
1	1	2871	G
1	1	2875	U
1	1	2876	C
1	1	2877	G
1	1	2887	A
1	1	2898	G
1	1	2899	C
1	1	2914	G
1	1	2923	U
1	1	2927	C
1	1	2935	U
1	1	2936	A
1	1	2942	C
1	1	2947	G
1	1	2971	A
1	1	2972	G
1	1	2979	U
1	1	2983	C
1	1	2990	G
1	1	2997	G
1	1	3012	A
1	1	3030	G
1	1	3056	U
1	1	3059	G
1	1	3078	U
1	1	3079	U
1	1	3080	G
1	1	3086	A
1	1	3087	A
1	1	3092	C
1	1	3119	U
1	1	3122	A
1	1	3130	A
1	1	3131	U
1	1	3134	A
1	1	3142	A
1	1	3143	C
1	1	3151	U
1	1	3153	U
1	1	3154	C
1	1	3155	U
1	1	3156	U

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Mol	Chain	Res	Type
1	1	3157	U
1	1	3164	C
1	1	3165	A
1	1	3166	C
1	1	3170	A
1	1	3173	G
1	1	3174	A
1	1	3176	G
1	1	3179	U
1	1	3181	C
1	1	3187	A
1	1	3195	U
1	1	3196	U
1	1	3207	U
1	1	3210	A
1	1	3217	C
1	1	3218	A
1	1	3219	G
1	1	3228	C
1	1	3229	G
1	1	3244	A
1	1	3245	A
1	1	3246	G
1	1	3247	G
1	1	3259	U
1	1	3269	U
1	1	3270	U
1	1	3276	G
1	1	3281	U
1	1	3286	G
1	1	3287	U
1	1	3288	G
1	1	3289	G
1	1	3293	U
1	1	3294	A
1	1	3295	A
1	1	3304	U
1	1	3313	U
1	1	3316	A
1	1	3317	U
1	1	3318	G
1	1	3319	U

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Mol	Chain	Res	Type
1	1	3341	U
1	1	3342	A
1	1	3345	G
1	1	3347	A
1	1	3348	G
1	1	3351	U
1	1	3352	U
1	1	3354	U
1	1	3355	U
1	1	3360	C
1	1	3368	U
1	1	3369	G
1	1	3375	A
1	1	3378	C
1	1	3382	U
1	1	3383	G
1	1	3389	U
1	1	3390	G
1	1	3396	U
2	3	7	G
2	3	22	A
2	3	23	A
2	3	41	G
2	3	54	U
2	3	61	G
2	3	65	G
2	3	74	C
2	3	76	A
2	3	102	A
2	3	112	G
2	3	121	U
3	4	2	A
3	4	26	U
3	4	34	U
3	4	35	C
3	4	48	A
3	4	59	A
3	4	62	C
3	4	63	G
3	4	75	G
3	4	79	A
3	4	80	A

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Mol	Chain	Res	Type
3	4	81	U
3	4	82	U
3	4	84	C
3	4	85	G
3	4	86	U
3	4	87	G
3	4	90	U
3	4	95	G
3	4	96	A
3	4	104	A
3	4	105	A
3	4	106	C
3	4	111	A
3	4	113	U
3	4	125	U
3	4	126	A
3	4	128	U
3	4	138	A
3	4	152	G
3	4	155	A
3	4	158	U
1	AR	16	A
1	AR	26	A
1	AR	40	A
1	AR	49	A
1	AR	59	G
1	AR	60	A
1	AR	65	A
1	AR	66	A
1	AR	72	C
1	AR	73	C
1	AR	74	G
1	AR	76	G
1	AR	93	C
1	AR	99	A
1	AR	109	A
1	AR	110	G
1	AR	111	C
1	AR	116	A
1	AR	121	A
1	AR	122	A
1	AR	133	U

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Mol	Chain	Res	Type
1	AR	135	C
1	AR	136	G
1	AR	156	G
1	AR	157	A
1	AR	165	A
1	AR	166	C
1	AR	172	G
1	AR	173	G
1	AR	182	U
1	AR	187	A
1	AR	190	U
1	AR	191	U
1	AR	200	C
1	AR	210	U
1	AR	218	G
1	AR	219	A
1	AR	231	G
1	AR	234	G
1	AR	240	U
1	AR	241	G
1	AR	243	G
1	AR	245	U
1	AR	247	C
1	AR	248	U
1	AR	249	U
1	AR	250	U
1	AR	251	G
1	AR	252	U
1	AR	253	A
1	AR	269	G
1	AR	286	U
1	AR	295	A
1	AR	298	U
1	AR	299	G
1	AR	321	C
1	AR	323	A
1	AR	329	U
1	AR	343	U
1	AR	349	A
1	AR	350	C
1	AR	351	A
1	AR	376	G

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Mol	Chain	Res	Type
1	AR	380	U
1	AR	395	A
1	AR	398	A
1	AR	399	A
1	AR	401	U
1	AR	402	A
1	AR	403	C
1	AR	421	G
1	AR	422	A
1	AR	436	A
1	AR	437	G
1	AR	438	A
1	AR	521	A
1	AR	535	G
1	AR	543	C
1	AR	544	C
1	AR	546	C
1	AR	550	A
1	AR	551	A
1	AR	552	G
1	AR	555	U
1	AR	557	A
1	AR	559	A
1	AR	578	A
1	AR	579	G
1	AR	592	A
1	AR	600	G
1	AR	604	G
1	AR	607	A
1	AR	608	A
1	AR	609	G
1	AR	611	A
1	AR	612	U
1	AR	619	A
1	AR	620	U
1	AR	621	A
1	AR	622	A
1	AR	636	C
1	AR	649	A
1	AR	660	A
1	AR	677	A
1	AR	681	U

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Mol	Chain	Res	Type
1	AR	683	U
1	AR	691	A
1	AR	705	A
1	AR	712	G
1	AR	715	A
1	AR	716	A
1	AR	725	G
1	AR	758	C
1	AR	763	G
1	AR	764	U
1	AR	765	C
1	AR	766	U
1	AR	767	U
1	AR	776	U
1	AR	777	U
1	AR	781	G
1	AR	783	A
1	AR	785	G
1	AR	786	A
1	AR	806	A
1	AR	813	G
1	AR	816	A
1	AR	817	A
1	AR	830	A
1	AR	849	C
1	AR	861	C
1	AR	874	U
1	AR	879	U
1	AR	896	A
1	AR	907	G
1	AR	908	G
1	AR	914	A
1	AR	916	G
1	AR	917	A
1	AR	921	A
1	AR	923	C
1	AR	924	G
1	AR	937	G
1	AR	944	C
1	AR	959	C
1	AR	960	U
1	AR	963	G

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Mol	Chain	Res	Type
1	AR	974	G
1	AR	979	U
1	AR	980	A
1	AR	981	U
1	AR	982	C
1	AR	993	G
1	AR	994	G
1	AR	1001	G
1	AR	1002	A
1	AR	1010	G
1	AR	1012	G
1	AR	1015	U
1	AR	1017	C
1	AR	1018	G
1	AR	1019	G
1	AR	1020	G
1	AR	1021	G
1	AR	1024	G
1	AR	1025	A
1	AR	1026	A
1	AR	1029	G
1	AR	1032	C
1	AR	1037	C
1	AR	1047	A
1	AR	1049	C
1	AR	1064	A
1	AR	1065	A
1	AR	1072	G
1	AR	1081	U
1	AR	1082	U
1	AR	1083	G
1	AR	1093	A
1	AR	1094	U
1	AR	1095	U
1	AR	1096	U
1	AR	1097	G
1	AR	1098	A
1	AR	1103	A
1	AR	1104	G
1	AR	1117	G
1	AR	1131	G
1	AR	1143	A

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Mol	Chain	Res	Type
1	AR	1153	A
1	AR	1159	A
1	AR	1160	C
1	AR	1180	A
1	AR	1181	U
1	AR	1191	U
1	AR	1192	C
1	AR	1201	C
1	AR	1202	A
1	AR	1209	G
1	AR	1222	G
1	AR	1233	G
1	AR	1235	U
1	AR	1236	G
1	AR	1237	G
1	AR	1239	C
1	AR	1241	U
1	AR	1242	G
1	AR	1243	G
1	AR	1245	A
1	AR	1246	G
1	AR	1248	C
1	AR	1252	A
1	AR	1262	G
1	AR	1263	A
1	AR	1265	U
1	AR	1266	G
1	AR	1285	G
1	AR	1292	C
1	AR	1307	G
1	AR	1309	U
1	AR	1313	G
1	AR	1330	A
1	AR	1345	G
1	AR	1348	U
1	AR	1349	G
1	AR	1350	A
1	AR	1351	U
1	AR	1352	A
1	AR	1353	U
1	AR	1355	A
1	AR	1356	U

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Mol	Chain	Res	Type
1	AR	1357	G
1	AR	1385	C
1	AR	1386	A
1	AR	1387	G
1	AR	1399	A
1	AR	1400	G
1	AR	1419	A
1	AR	1431	G
1	AR	1434	G
1	AR	1437	C
1	AR	1446	A
1	AR	1450	G
1	AR	1481	A
1	AR	1482	A
1	AR	1488	G
1	AR	1490	A
1	AR	1496	C
1	AR	1508	C
1	AR	1514	G
1	AR	1528	G
1	AR	1536	G
1	AR	1549	U
1	AR	1555	U
1	AR	1556	C
1	AR	1560	G
1	AR	1561	G
1	AR	1562	C
1	AR	1563	C
1	AR	1565	G
1	AR	1580	A
1	AR	1581	C
1	AR	1582	C
1	AR	1583	A
1	AR	1587	A
1	AR	1589	A
1	AR	1605	A
1	AR	1620	U
1	AR	1629	U
1	AR	1639	C
1	AR	1643	A
1	AR	1645	U
1	AR	1657	C

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Mol	Chain	Res	Type
1	AR	1658	G
1	AR	1683	A
1	AR	1716	U
1	AR	1717	U
1	AR	1724	U
1	AR	1725	C
1	AR	1741	A
1	AR	1742	U
1	AR	1750	A
1	AR	1751	G
1	AR	1760	A
1	AR	1761	C
1	AR	1762	C
1	AR	1765	U
1	AR	1766	G
1	AR	1767	C
1	AR	1769	G
1	AR	1770	G
1	AR	1775	G
1	AR	1780	G
1	AR	1797	A
1	AR	1810	A
1	AR	1814	A
1	AR	1815	U
1	AR	1816	A
1	AR	1819	U
1	AR	1820	U
1	AR	1821	U
1	AR	1839	A
1	AR	1842	A
1	AR	1849	C
1	AR	1850	A
1	AR	1878	G
1	AR	1884	A
1	AR	1906	G
1	AR	1948	G
1	AR	1952	G
1	AR	1953	G
1	AR	1954	G
1	AR	2094	C
1	AR	2095	G
1	AR	2101	C

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Mol	Chain	Res	Type
1	AR	2102	U
1	AR	2111	G
1	AR	2113	A
1	AR	2114	C
1	AR	2121	G
1	AR	2122	G
1	AR	2131	A
1	AR	2158	A
1	AR	2169	G
1	AR	2184	U
1	AR	2192	C
1	AR	2205	U
1	AR	2209	U
1	AR	2210	G
1	AR	2211	U
1	AR	2223	A
1	AR	2225	U
1	AR	2244	A
1	AR	2252	A
1	AR	2253	G
1	AR	2254	U
1	AR	2255	A
1	AR	2256	A
1	AR	2262	A
1	AR	2264	U
1	AR	2269	U
1	AR	2270	A
1	AR	2273	G
1	AR	2276	G
1	AR	2279	A
1	AR	2280	A
1	AR	2281	A
1	AR	2282	U
1	AR	2288	G
1	AR	2307	G
1	AR	2309	A
1	AR	2310	U
1	AR	2313	A
1	AR	2314	U
1	AR	2315	G
1	AR	2334	U
1	AR	2335	G

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Mol	Chain	Res	Type
1	AR	2336	U
1	AR	2373	A
1	AR	2374	C
1	AR	2375	G
1	AR	2385	G
1	AR	2393	G
1	AR	2394	G
1	AR	2397	A
1	AR	2401	A
1	AR	2402	A
1	AR	2403	G
1	AR	2404	A
1	AR	2411	U
1	AR	2418	G
1	AR	2438	A
1	AR	2443	A
1	AR	2444	C
1	AR	2507	C
1	AR	2508	U
1	AR	2509	U
1	AR	2514	U
1	AR	2515	A
1	AR	2519	A
1	AR	2522	G
1	AR	2523	A
1	AR	2524	A
1	AR	2533	G
1	AR	2534	G
1	AR	2536	A
1	AR	2538	U
1	AR	2539	C
1	AR	2540	A
1	AR	2541	U
1	AR	2542	U
1	AR	2549	G
1	AR	2552	C
1	AR	2555	G
1	AR	2560	C
1	AR	2561	A
1	AR	2565	U
1	AR	2569	A
1	AR	2570	U

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Mol	Chain	Res	Type
1	AR	2571	U
1	AR	2572	C
1	AR	2573	G
1	AR	2580	A
1	AR	2585	G
1	AR	2587	U
1	AR	2593	A
1	AR	2595	A
1	AR	2606	G
1	AR	2607	G
1	AR	2614	G
1	AR	2618	G
1	AR	2638	C
1	AR	2652	U
1	AR	2656	A
1	AR	2674	A
1	AR	2677	G
1	AR	2681	U
1	AR	2689	A
1	AR	2690	G
1	AR	2691	A
1	AR	2694	A
1	AR	2696	A
1	AR	2714	G
1	AR	2728	G
1	AR	2729	U
1	AR	2752	U
1	AR	2753	G
1	AR	2762	A
1	AR	2772	C
1	AR	2777	G
1	AR	2778	G
1	AR	2781	U
1	AR	2796	G
1	AR	2799	A
1	AR	2800	G
1	AR	2801	A
1	AR	2802	A
1	AR	2810	C
1	AR	2814	G
1	AR	2816	G
1	AR	2817	A

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Mol	Chain	Res	Type
1	AR	2818	U
1	AR	2819	A
1	AR	2839	G
1	AR	2842	U
1	AR	2843	U
1	AR	2845	A
1	AR	2847	A
1	AR	2849	C
1	AR	2860	U
1	AR	2863	G
1	AR	2871	G
1	AR	2872	A
1	AR	2873	U
1	AR	2875	U
1	AR	2876	C
1	AR	2887	A
1	AR	2894	C
1	AR	2896	A
1	AR	2899	C
1	AR	2923	U
1	AR	2935	U
1	AR	2936	A
1	AR	2942	C
1	AR	2947	G
1	AR	2954	U
1	AR	2968	G
1	AR	2971	A
1	AR	2983	C
1	AR	2990	G
1	AR	2992	U
1	AR	2997	G
1	AR	3012	A
1	AR	3045	G
1	AR	3056	U
1	AR	3057	U
1	AR	3059	G
1	AR	3078	U
1	AR	3079	U
1	AR	3086	A
1	AR	3087	A
1	AR	3092	C
1	AR	3122	A

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Mol	Chain	Res	Type
1	AR	3123	A
1	AR	3130	A
1	AR	3131	U
1	AR	3142	A
1	AR	3143	C
1	AR	3151	U
1	AR	3153	U
1	AR	3155	U
1	AR	3156	U
1	AR	3157	U
1	AR	3158	G
1	AR	3164	C
1	AR	3165	A
1	AR	3167	A
1	AR	3168	A
1	AR	3172	A
1	AR	3173	G
1	AR	3174	A
1	AR	3176	G
1	AR	3179	U
1	AR	3181	C
1	AR	3187	A
1	AR	3195	U
1	AR	3198	U
1	AR	3206	C
1	AR	3207	U
1	AR	3209	A
1	AR	3217	C
1	AR	3218	A
1	AR	3219	G
1	AR	3223	A
1	AR	3228	C
1	AR	3229	G
1	AR	3242	G
1	AR	3244	A
1	AR	3245	A
1	AR	3246	G
1	AR	3247	G
1	AR	3253	G
1	AR	3259	U
1	AR	3265	C
1	AR	3266	G

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Mol	Chain	Res	Type
1	AR	3270	U
1	AR	3275	U
1	AR	3276	G
1	AR	3277	U
1	AR	3278	C
1	AR	3281	U
1	AR	3286	G
1	AR	3287	U
1	AR	3288	G
1	AR	3289	G
1	AR	3304	U
1	AR	3313	U
1	AR	3316	A
1	AR	3317	U
1	AR	3318	G
1	AR	3319	U
1	AR	3320	A
1	AR	3341	U
1	AR	3342	A
1	AR	3345	G
1	AR	3347	A
1	AR	3351	U
1	AR	3352	U
1	AR	3353	G
1	AR	3354	U
1	AR	3355	U
1	AR	3356	G
1	AR	3359	A
1	AR	3369	G
1	AR	3375	A
1	AR	3378	C
1	AR	3383	G
1	AR	3389	U
1	AR	3390	G
2	AS	7	G
2	AS	17	A
2	AS	22	A
2	AS	33	U
2	AS	38	U
2	AS	41	G
2	AS	53	U
2	AS	54	U

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Mol	Chain	Res	Type
2	AS	60	G
2	AS	65	G
2	AS	73	C
2	AS	74	C
2	AS	76	A
2	AS	99	G
2	AS	101	G
2	AS	102	A
2	AS	112	G
2	AS	121	U
3	AT	21	C
3	AT	34	U
3	AT	35	C
3	AT	48	A
3	AT	51	G
3	AT	59	A
3	AT	62	C
3	AT	63	G
3	AT	80	A
3	AT	81	U
3	AT	82	U
3	AT	83	C
3	AT	84	C
3	AT	85	G
3	AT	86	U
3	AT	87	G
3	AT	90	U
3	AT	95	G
3	AT	96	A
3	AT	97	A
3	AT	104	A
3	AT	105	A
3	AT	106	C
3	AT	111	A
3	AT	113	U
3	AT	116	G
3	AT	125	U
3	AT	152	G
3	AT	155	A
3	AT	158	U
47	A	2	A
47	A	4	C

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Mol	Chain	Res	Type
47	A	8	U
47	A	17	C
47	A	25	C
47	A	26	A
47	A	27	U
47	A	34	G
47	A	39	A
47	A	42	G
47	A	45	U
47	A	47	A
47	A	57	G
47	A	60	U
47	A	67	A
47	A	68	A
47	A	69	G
47	A	72	A
47	A	73	U
47	A	74	U
47	A	81	G
47	A	104	A
47	A	114	C
47	A	115	G
47	A	127	G
47	A	130	C
47	A	131	C
47	A	140	A
47	A	141	U
47	A	144	U
47	A	145	A
47	A	146	U
47	A	153	G
47	A	158	U
47	A	159	U
47	A	161	U
47	A	169	A
47	A	170	U
47	A	178	U
47	A	179	A
47	A	185	U
47	A	186	C
47	A	188	A
47	A	190	C

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Mol	Chain	Res	Type
47	A	191	C
47	A	192	U
47	A	193	U
47	A	195	G
47	A	197	A
47	A	200	A
47	A	215	A
47	A	217	A
47	A	219	A
47	A	226	A
47	A	227	U
47	A	229	U
47	A	233	C
47	A	235	G
47	A	236	A
47	A	246	G
47	A	250	C
47	A	260	U
47	A	261	U
47	A	265	A
47	A	271	A
47	A	272	U
47	A	274	G
47	A	275	C
47	A	276	C
47	A	277	U
47	A	278	U
47	A	279	G
47	A	280	U
47	A	281	G
47	A	284	G
47	A	288	A
47	A	290	G
47	A	292	U
47	A	299	A
47	A	302	U
47	A	309	C
47	A	314	C
47	A	316	A
47	A	319	U
47	A	320	U
47	A	321	C

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Mol	Chain	Res	Type
47	A	322	G
47	A	333	A
47	A	337	G
47	A	338	C
47	A	352	A
47	A	359	A
47	A	360	A
47	A	361	C
47	A	378	A
47	A	390	G
47	A	397	A
47	A	400	A
47	A	402	C
47	A	403	G
47	A	404	G
47	A	418	G
47	A	419	G
47	A	424	C
47	A	425	A
47	A	426	G
47	A	428	A
47	A	434	G
47	A	439	U
47	A	444	C
47	A	448	C
47	A	468	A
47	A	470	A
47	A	471	A
47	A	475	A
47	A	477	A
47	A	479	C
47	A	480	G
47	A	483	A
47	A	484	C
47	A	485	A
47	A	488	G
47	A	493	U
47	A	495	C
47	A	496	G
47	A	497	G
47	A	498	G
47	A	499	U

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Mol	Chain	Res	Type
47	A	500	C
47	A	502	U
47	A	503	G
47	A	504	U
47	A	505	A
47	A	506	A
47	A	507	U
47	A	509	G
47	A	510	G
47	A	511	A
47	A	512	A
47	A	513	U
47	A	515	A
47	A	516	G
47	A	527	A
47	A	532	U
47	A	536	C
47	A	538	A
47	A	539	G
47	A	540	G
47	A	541	A
47	A	542	A
47	A	543	C
47	A	544	A
47	A	548	G
47	A	551	G
47	A	555	A
47	A	556	A
47	A	557	G
47	A	558	U
47	A	559	C
47	A	565	C
47	A	568	G
47	A	579	A
47	A	580	A
47	A	581	U
47	A	583	C
47	A	594	A
47	A	595	G
47	A	608	U
47	A	611	U
47	A	619	A

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Mol	Chain	Res	Type
47	A	620	A
47	A	622	A
47	A	623	A
47	A	624	G
47	A	639	U
47	A	640	U
47	A	650	U
47	A	654	C
47	A	655	G
47	A	677	G
47	A	678	A
47	A	679	U
47	A	680	U
47	A	682	C
47	A	684	A
47	A	686	C
47	A	694	U
47	A	696	C
47	A	697	C
47	A	700	C
47	A	702	G
47	A	703	G
47	A	704	C
47	A	705	U
47	A	706	A
47	A	707	A
47	A	709	C
47	A	710	U
47	A	711	U
47	A	712	G
47	A	714	G
47	A	716	C
47	A	717	C
47	A	718	U
47	A	719	U
47	A	720	G
47	A	721	U
47	A	722	G
47	A	723	G
47	A	724	C
47	A	725	U
47	A	726	C

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Mol	Chain	Res	Type
47	A	727	U
47	A	731	C
47	A	732	G
47	A	733	A
47	A	734	A
47	A	735	C
47	A	737	A
47	A	738	G
47	A	742	U
47	A	743	U
47	A	745	U
47	A	754	A
47	A	755	A
47	A	756	A
47	A	765	G
47	A	766	U
47	A	774	A
47	A	775	G
47	A	778	G
47	A	781	U
47	A	782	U
47	A	783	G
47	A	784	C
47	A	787	G
47	A	789	A
47	A	793	A
47	A	794	U
47	A	795	U
47	A	803	A
47	A	812	A
47	A	814	A
47	A	815	G
47	A	816	G
47	A	818	C
47	A	819	G
47	A	820	U
47	A	821	U
47	A	823	G
47	A	830	U
47	A	831	U
47	A	832	U
47	A	833	U

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Mol	Chain	Res	Type
47	A	841	U
47	A	846	G
47	A	856	A
47	A	863	A
47	A	864	U
47	A	876	G
47	A	886	U
47	A	892	A
47	A	898	A
47	A	899	G
47	A	912	U
47	A	913	G
47	A	914	G
47	A	915	A
47	A	916	U
47	A	933	A
47	A	934	C
47	A	935	U
47	A	942	G
47	A	951	A
47	A	960	U
47	A	966	A
47	A	989	U
47	A	992	A
47	A	993	A
47	A	997	G
47	A	1002	G
47	A	1003	A
47	A	1004	U
47	A	1005	A
47	A	1026	A
47	A	1028	C
47	A	1039	A
47	A	1040	G
47	A	1049	U
47	A	1052	U
47	A	1053	G
47	A	1057	U
47	A	1058	U
47	A	1060	U
47	A	1074	G
47	A	1082	C

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Mol	Chain	Res	Type
47	A	1086	A
47	A	1091	A
47	A	1092	A
47	A	1093	A
47	A	1096	C
47	A	1097	U
47	A	1098	U
47	A	1100	G
47	A	1109	G
47	A	1138	A
47	A	1140	G
47	A	1146	G
47	A	1150	G
47	A	1151	A
47	A	1157	A
47	A	1158	C
47	A	1160	A
47	A	1163	A
47	A	1167	G
47	A	1168	U
47	A	1185	U
47	A	1191	U
47	A	1194	A
47	A	1196	A
47	A	1199	G
47	A	1200	G
47	A	1202	A
47	A	1203	A
47	A	1207	C
47	A	1217	A
47	A	1218	G
47	A	1226	A
47	A	1227	A
47	A	1229	G
47	A	1241	G
47	A	1242	A
47	A	1243	G
47	A	1244	A
47	A	1245	G
47	A	1246	C
47	A	1250	U
47	A	1251	U

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Mol	Chain	Res	Type
47	A	1257	U
47	A	1258	U
47	A	1260	U
47	A	1284	C
47	A	1285	U
47	A	1314	U
47	A	1315	U
47	A	1321	A
47	A	1324	G
47	A	1339	C
47	A	1340	U
47	A	1341	A
47	A	1344	A
47	A	1346	A
47	A	1354	G
47	A	1361	U
47	A	1362	U
47	A	1363	U
47	A	1364	G
47	A	1370	U
47	A	1371	A
47	A	1372	U
47	A	1378	U
47	A	1388	A
47	A	1390	U
47	A	1394	G
47	A	1398	U
47	A	1399	C
47	A	1413	U
47	A	1415	U
47	A	1424	A
47	A	1427	A
47	A	1428	G
47	A	1446	A
47	A	1459	C
47	A	1460	A
47	A	1461	C
47	A	1469	A
47	A	1471	A
47	A	1473	U
47	A	1474	G
47	A	1475	A

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Mol	Chain	Res	Type
47	A	1481	C
47	A	1482	C
47	A	1484	G
47	A	1486	G
47	A	1487	A
47	A	1489	U
47	A	1490	C
47	A	1491	U
47	A	1492	A
47	A	1499	G
47	A	1506	G
47	A	1515	A
47	A	1516	A
47	A	1517	U
47	A	1521	G
47	A	1523	G
47	A	1524	A
47	A	1526	A
47	A	1535	U
47	A	1536	G
47	A	1537	C
47	A	1538	U
47	A	1542	G
47	A	1557	U
47	A	1558	U
47	A	1559	A
47	A	1560	U
47	A	1569	A
47	A	1572	G
47	A	1574	G
47	A	1584	G
47	A	1590	G
47	A	1600	A
47	A	1601	G
47	A	1614	A
47	A	1616	G
47	A	1631	A
47	A	1634	C
47	A	1657	U
47	A	1658	G
47	A	1662	G
47	A	1663	G

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Mol	Chain	Res	Type
47	A	1680	G
47	A	1681	A
47	A	1682	U
47	A	1683	C
47	A	1684	U
47	A	1731	A
47	A	1755	A
47	A	1760	G
47	A	1762	A
47	A	1766	A
47	A	1769	U
47	A	1780	G
47	A	1782	A
47	A	1783	C
47	A	1790	A
47	A	1792	G
47	A	1793	G
47	A	1794	A
47	A	1795	U
47	A	1796	C
47	sR	2	A
47	sR	17	C
47	sR	25	C
47	sR	26	A
47	sR	27	U
47	sR	34	G
47	sR	47	A
47	sR	57	G
47	sR	60	U
47	sR	61	A
47	sR	68	A
47	sR	69	G
47	sR	72	A
47	sR	73	U
47	sR	75	U
47	sR	76	A
47	sR	77	U
47	sR	78	A
47	sR	104	A
47	sR	114	C
47	sR	126	A
47	sR	128	U

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Mol	Chain	Res	Type
47	sR	132	U
47	sR	137	U
47	sR	138	A
47	sR	140	A
47	sR	141	U
47	sR	144	U
47	sR	145	A
47	sR	146	U
47	sR	153	G
47	sR	159	U
47	sR	166	C
47	sR	176	C
47	sR	177	U
47	sR	178	U
47	sR	185	U
47	sR	188	A
47	sR	191	C
47	sR	192	U
47	sR	193	U
47	sR	194	U
47	sR	195	G
47	sR	196	G
47	sR	197	A
47	sR	200	A
47	sR	216	U
47	sR	218	A
47	sR	219	A
47	sR	224	C
47	sR	227	U
47	sR	228	G
47	sR	230	C
47	sR	232	U
47	sR	233	C
47	sR	235	G
47	sR	238	U
47	sR	240	U
47	sR	241	U
47	sR	245	U
47	sR	249	U
47	sR	250	C
47	sR	265	A
47	sR	267	U

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Mol	Chain	Res	Type
47	sR	270	C
47	sR	271	A
47	sR	272	U
47	sR	273	G
47	sR	275	C
47	sR	277	U
47	sR	278	U
47	sR	280	U
47	sR	281	G
47	sR	299	A
47	sR	301	A
47	sR	314	C
47	sR	316	A
47	sR	319	U
47	sR	320	U
47	sR	321	C
47	sR	322	G
47	sR	335	U
47	sR	337	G
47	sR	338	C
47	sR	352	A
47	sR	359	A
47	sR	360	A
47	sR	361	C
47	sR	380	U
47	sR	400	A
47	sR	401	A
47	sR	402	C
47	sR	404	G
47	sR	416	A
47	sR	418	G
47	sR	424	C
47	sR	425	A
47	sR	426	G
47	sR	434	G
47	sR	437	A
47	sR	439	U
47	sR	444	C
47	sR	445	A
47	sR	448	C
47	sR	454	U
47	sR	468	A

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Mol	Chain	Res	Type
47	sR	484	C
47	sR	486	G
47	sR	487	G
47	sR	488	G
47	sR	489	C
47	sR	490	C
47	sR	492	A
47	sR	493	U
47	sR	494	U
47	sR	495	C
47	sR	496	G
47	sR	497	G
47	sR	500	C
47	sR	501	U
47	sR	502	U
47	sR	505	A
47	sR	506	A
47	sR	507	U
47	sR	508	U
47	sR	510	G
47	sR	511	A
47	sR	512	A
47	sR	513	U
47	sR	514	G
47	sR	519	C
47	sR	527	A
47	sR	538	A
47	sR	539	G
47	sR	540	G
47	sR	541	A
47	sR	542	A
47	sR	543	C
47	sR	544	A
47	sR	548	G
47	sR	551	G
47	sR	556	A
47	sR	557	G
47	sR	558	U
47	sR	559	C
47	sR	565	C
47	sR	566	C
47	sR	570	A

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Mol	Chain	Res	Type
47	sR	574	G
47	sR	578	U
47	sR	579	A
47	sR	580	A
47	sR	582	U
47	sR	594	A
47	sR	595	G
47	sR	611	U
47	sR	619	A
47	sR	620	A
47	sR	622	A
47	sR	623	A
47	sR	624	G
47	sR	637	C
47	sR	639	U
47	sR	640	U
47	sR	648	G
47	sR	650	U
47	sR	651	G
47	sR	652	G
47	sR	653	C
47	sR	654	C
47	sR	658	C
47	sR	679	U
47	sR	680	U
47	sR	681	U
47	sR	682	C
47	sR	683	C
47	sR	684	A
47	sR	685	A
47	sR	690	G
47	sR	691	C
47	sR	696	C
47	sR	705	U
47	sR	709	C
47	sR	710	U
47	sR	711	U
47	sR	715	U
47	sR	718	U
47	sR	719	U
47	sR	720	G
47	sR	721	U

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Mol	Chain	Res	Type
47	sR	722	G
47	sR	730	G
47	sR	739	G
47	sR	743	U
47	sR	745	U
47	sR	753	A
47	sR	754	A
47	sR	755	A
47	sR	756	A
47	sR	765	G
47	sR	766	U
47	sR	774	A
47	sR	775	G
47	sR	780	A
47	sR	781	U
47	sR	782	U
47	sR	783	G
47	sR	789	A
47	sR	793	A
47	sR	794	U
47	sR	795	U
47	sR	811	A
47	sR	812	A
47	sR	814	A
47	sR	815	G
47	sR	816	G
47	sR	821	U
47	sR	823	G
47	sR	824	G
47	sR	825	U
47	sR	826	U
47	sR	829	A
47	sR	830	U
47	sR	831	U
47	sR	832	U
47	sR	834	G
47	sR	835	U
47	sR	846	G
47	sR	847	A
47	sR	856	A
47	sR	862	A
47	sR	863	A

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Mol	Chain	Res	Type
47	sR	876	G
47	sR	898	A
47	sR	906	A
47	sR	910	C
47	sR	912	U
47	sR	913	G
47	sR	914	G
47	sR	916	U
47	sR	929	A
47	sR	933	A
47	sR	935	U
47	sR	942	G
47	sR	959	U
47	sR	960	U
47	sR	966	A
47	sR	970	A
47	sR	971	A
47	sR	992	A
47	sR	997	G
47	sR	1003	A
47	sR	1004	U
47	sR	1005	A
47	sR	1013	A
47	sR	1021	C
47	sR	1026	A
47	sR	1028	C
47	sR	1039	A
47	sR	1040	G
47	sR	1052	U
47	sR	1053	G
47	sR	1057	U
47	sR	1058	U
47	sR	1059	U
47	sR	1060	U
47	sR	1061	A
47	sR	1062	A
47	sR	1073	G
47	sR	1075	C
47	sR	1081	A
47	sR	1082	C
47	sR	1086	A
47	sR	1092	A

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Mol	Chain	Res	Type
47	sR	1096	C
47	sR	1097	U
47	sR	1098	U
47	sR	1100	G
47	sR	1137	A
47	sR	1138	A
47	sR	1150	G
47	sR	1155	G
47	sR	1158	C
47	sR	1159	C
47	sR	1160	A
47	sR	1161	C
47	sR	1167	G
47	sR	1185	U
47	sR	1194	A
47	sR	1196	A
47	sR	1197	C
47	sR	1199	G
47	sR	1200	G
47	sR	1202	A
47	sR	1207	C
47	sR	1208	A
47	sR	1217	A
47	sR	1218	G
47	sR	1219	A
47	sR	1220	C
47	sR	1225	U
47	sR	1227	A
47	sR	1228	G
47	sR	1229	G
47	sR	1230	A
47	sR	1231	U
47	sR	1241	G
47	sR	1243	G
47	sR	1244	A
47	sR	1245	G
47	sR	1246	C
47	sR	1255	G
47	sR	1256	A
47	sR	1257	U
47	sR	1258	U
47	sR	1272	U

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Mol	Chain	Res	Type
47	sR	1286	U
47	sR	1288	G
47	sR	1291	G
47	sR	1298	U
47	sR	1311	U
47	sR	1314	U
47	sR	1315	U
47	sR	1316	G
47	sR	1321	A
47	sR	1335	U
47	sR	1337	A
47	sR	1341	A
47	sR	1344	A
47	sR	1345	A
47	sR	1346	A
47	sR	1347	U
47	sR	1354	G
47	sR	1361	U
47	sR	1362	U
47	sR	1363	U
47	sR	1364	G
47	sR	1367	G
47	sR	1370	U
47	sR	1371	A
47	sR	1383	G
47	sR	1388	A
47	sR	1390	U
47	sR	1396	U
47	sR	1398	U
47	sR	1399	C
47	sR	1400	A
47	sR	1402	G
47	sR	1410	A
47	sR	1413	U
47	sR	1414	U
47	sR	1415	U
47	sR	1417	A
47	sR	1422	A
47	sR	1427	A
47	sR	1428	G
47	sR	1433	G
47	sR	1437	U

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Mol	Chain	Res	Type
47	sR	1445	G
47	sR	1446	A
47	sR	1448	G
47	sR	1459	C
47	sR	1460	A
47	sR	1461	C
47	sR	1469	A
47	sR	1471	A
47	sR	1473	U
47	sR	1482	C
47	sR	1483	A
47	sR	1489	U
47	sR	1490	C
47	sR	1491	U
47	sR	1492	A
47	sR	1506	G
47	sR	1514	U
47	sR	1516	A
47	sR	1517	U
47	sR	1521	G
47	sR	1523	G
47	sR	1524	A
47	sR	1535	U
47	sR	1536	G
47	sR	1537	C
47	sR	1538	U
47	sR	1540	G
47	sR	1542	G
47	sR	1554	U
47	sR	1557	U
47	sR	1559	A
47	sR	1569	A
47	sR	1572	G
47	sR	1573	A
47	sR	1574	G
47	sR	1575	G
47	sR	1582	U
47	sR	1584	G
47	sR	1590	G
47	sR	1600	A
47	sR	1601	G
47	sR	1621	U

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Mol	Chain	Res	Type
47	sR	1634	C
47	sR	1657	U
47	sR	1658	G
47	sR	1682	U
47	sR	1695	G
47	sR	1696	G
47	sR	1697	G
47	sR	1698	G
47	sR	1699	G
47	sR	1700	C
47	sR	1702	A
47	sR	1703	C
47	sR	1712	A
47	sR	1716	C
47	sR	1717	G
47	sR	1731	A
47	sR	1760	G
47	sR	1766	A
47	sR	1767	G
47	sR	1769	U
47	sR	1780	G
47	sR	1782	A
47	sR	1792	G
47	sR	1793	G
47	sR	1794	A
47	sR	1795	U
47	sR	1796	C
47	sR	1799	U
47	sR	1800	A

All (130) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1	65	A
1	1	239	G
1	1	282	G
1	1	588	G
1	1	619	A
1	1	763	G
1	1	873	C
1	1	916	G
1	1	979	U

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Mol	Chain	Res	Type
1	1	981	U
1	1	993	G
1	1	1094	U
1	1	1097	G
1	1	1103	A
1	1	1273	A
1	1	1329	U
1	1	1355	A
1	1	1562	C
1	1	1589	A
1	1	1716	U
1	1	1809	A
1	1	1820	U
1	1	2101	C
1	1	2112	U
1	1	2209	U
1	1	2227	C
1	1	2249	G
1	1	2537	U
1	1	2539	C
1	1	2541	U
1	1	2593	A
1	1	2801	A
1	1	2818	U
1	1	2874	G
1	1	2875	U
1	1	3078	U
1	1	3121	U
1	1	3218	A
1	1	3228	C
1	1	3269	U
1	1	3350	C
1	1	3351	U
1	1	3353	G
3	4	85	G
3	4	125	U
1	AR	65	A
1	AR	239	G
1	AR	550	A
1	AR	588	G
1	AR	715	A
1	AR	873	C

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Mol	Chain	Res	Type
1	AR	916	G
1	AR	979	U
1	AR	981	U
1	AR	993	G
1	AR	1064	A
1	AR	1094	U
1	AR	1097	G
1	AR	1238	C
1	AR	1241	U
1	AR	1284	C
1	AR	1329	U
1	AR	1348	U
1	AR	1352	A
1	AR	1355	A
1	AR	1562	C
1	AR	1716	U
1	AR	1815	U
1	AR	1820	U
1	AR	2101	C
1	AR	2112	U
1	AR	2252	A
1	AR	2255	A
1	AR	2269	U
1	AR	2373	A
1	AR	2400	G
1	AR	2537	U
1	AR	2541	U
1	AR	2586	G
1	AR	2801	A
1	AR	2818	U
1	AR	2871	G
1	AR	3078	U
1	AR	3121	U
1	AR	3157	U
1	AR	3218	A
1	AR	3228	C
1	AR	3269	U
1	AR	3350	C
1	AR	3358	U
2	AS	52	G
3	AT	85	G
47	A	25	C

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Mol	Chain	Res	Type
47	A	45	U
47	A	73	U
47	A	130	C
47	A	139	C
47	A	158	U
47	A	187	G
47	A	218	A
47	A	232	U
47	A	278	U
47	A	417	A
47	A	499	U
47	A	501	U
47	A	503	G
47	A	512	A
47	A	555	A
47	A	580	A
47	A	685	A
47	A	704	C
47	A	720	G
47	A	721	U
47	A	755	A
47	A	781	U
47	A	1051	G
47	A	1081	A
47	A	1150	G
47	A	1157	A
47	A	1244	A
47	A	1250	U
47	A	1370	U
47	A	1481	C
47	A	1489	U
47	A	1537	C
47	A	1568	C
47	A	1573	A
47	A	1657	U
47	A	1754	A
47	A	1761	U

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

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 2428 ligands modelled in this entry, 1482 are monoatomic - leaving 946 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	$\# Z > 2$
81	OHX	AR	3564	-	0,6,6	-	-	-		
81	OHX	sR	1954	-	0,6,6	-	-	-		
81	OHX	AR	3441	-	0,6,6	-	-	-		
81	OHX	sR	2000	-	0,6,6	-	-	-		
81	OHX	A	1907	-	0,6,6	-	-	-		
81	OHX	CP	303	-	0,6,6	-	-	-		
81	OHX	1	3604	-	0,6,6	-	-	-		
81	OHX	AR	4201	-	0,6,6	-	-	-		
81	OHX	A	1903	-	0,6,6	-	-	-		
81	OHX	A	2133	-	0,6,6	-	-	-		
84	XBI	AR	4222	-	28,28,28	0.70	1 (3%)	37,45,45	1.93	7 (18%)
81	OHX	sR	1976	-	0,6,6	-	-	-		
81	OHX	A	1963	-	0,6,6	-	-	-		
81	OHX	sR	1996	-	0,6,6	-	-	-		
81	OHX	AR	3608	-	0,6,6	-	-	-		
81	OHX	1	3512	-	0,6,6	-	-	-		
81	OHX	AR	3459	-	0,6,6	-	-	-		
81	OHX	A	1901	-	0,6,6	-	-	-		
81	OHX	1	3493	-	0,6,6	-	-	-		
81	OHX	1	3486	-	0,6,6	-	-	-		
81	OHX	AR	3464	-	0,6,6	-	-	-		
81	OHX	AR	3473	-	0,6,6	-	-	-		
81	OHX	AR	3673	-	0,6,6	-	-	-		
81	OHX	A	2113	-	0,6,6	-	-	-		
81	OHX	sR	1917	-	0,6,6	-	-	-		
81	OHX	1	3583	-	0,6,6	-	-	-		
81	OHX	AR	3543	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	AR	3603	-	0,6,6	-	-	-		
81	OHX	A	1959	-	0,6,6	-	-	-		
81	OHX	CX	202	-	0,6,6	-	-	-		
81	OHX	sR	1969	-	0,6,6	-	-	-		
81	OHX	AR	3482	-	0,6,6	-	-	-		
81	OHX	A	1935	-	0,6,6	-	-	-		
81	OHX	1	4117	-	0,6,6	-	-	-		
81	OHX	1	4110	-	0,6,6	-	-	-		
81	OHX	1	3413	-	0,6,6	-	-	-		
81	OHX	AR	3596	-	0,6,6	-	-	-		
81	OHX	AR	3524	-	0,6,6	-	-	-		
81	OHX	1	4088	-	0,6,6	-	-	-		
81	OHX	1	4101	-	0,6,6	-	-	-		
81	OHX	1	3508	-	0,6,6	-	-	-		
81	OHX	1	4121	-	0,6,6	-	-	-		
81	OHX	1	3421	-	0,6,6	-	-	-		
81	OHX	AR	3456	-	0,6,6	-	-	-		
81	OHX	AR	3454	-	0,6,6	-	-	-		
81	OHX	sR	1977	-	0,6,6	-	-	-		
81	OHX	1	3446	-	0,6,6	-	-	-		
81	OHX	AR	3595	-	0,6,6	-	-	-		
81	OHX	sR	1940	-	0,6,6	-	-	-		
81	OHX	sR	1950[B]	-	0,6,6	-	-	-		
81	OHX	1	3584	-	0,6,6	-	-	-		
81	OHX	AR	3588	-	0,6,6	-	-	-		
81	OHX	1	3617	-	0,6,6	-	-	-		
81	OHX	1	4089	-	0,6,6	-	-	-		
81	OHX	AR	3586	-	0,6,6	-	-	-		
81	OHX	1	3585	-	0,6,6	-	-	-		
81	OHX	AS	3504	-	0,6,6	-	-	-		
81	OHX	AR	3469	-	0,6,6	-	-	-		
81	OHX	1	3441	-	0,6,6	-	-	-		
81	OHX	AR	3527	-	0,6,6	-	-	-		
81	OHX	AR	3620	-	0,6,6	-	-	-		
81	OHX	sR	2006	-	0,6,6	-	-	-		
81	OHX	sR	1909	-	0,6,6	-	-	-		
81	OHX	sR	1972	-	0,6,6	-	-	-		
81	OHX	A	1939	-	0,6,6	-	-	-		
81	OHX	1	3411	-	0,6,6	-	-	-		
81	OHX	AR	3627	-	0,6,6	-	-	-		
81	OHX	1	3514	-	0,6,6	-	-	-		
81	OHX	A	1936	-	0,6,6	-	-	-		
81	OHX	T	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	AR	3600	-	0,6,6	-	-	-		
81	OHX	AS	3503	-	0,6,6	-	-	-		
81	OHX	1	3575	-	0,6,6	-	-	-		
81	OHX	A	2120	-	0,6,6	-	-	-		
81	OHX	1	4141	-	0,6,6	-	-	-		
81	OHX	AR	3401	-	0,6,6	-	-	-		
81	OHX	AR	3669	-	0,6,6	-	-	-		
81	OHX	AR	3432	-	0,6,6	-	-	-		
81	OHX	A	1960	-	0,6,6	-	-	-		
81	OHX	AR	3602	-	0,6,6	-	-	-		
81	OHX	AR	3628	-	0,6,6	-	-	-		
81	OHX	1	3567	-	0,6,6	-	-	-		
81	OHX	sR	1929	-	0,6,6	-	-	-		
81	OHX	AR	3438	-	0,6,6	-	-	-		
81	OHX	A	1940	-	0,6,6	-	-	-		
81	OHX	sR	1905	-	0,6,6	-	-	-		
81	OHX	AR	3501	-	0,6,6	-	-	-		
81	OHX	1	3531	-	0,6,6	-	-	-		
81	OHX	AR	3638	-	0,6,6	-	-	-		
81	OHX	AR	3484	-	0,6,6	-	-	-		
81	OHX	AR	3666	-	0,6,6	-	-	-		
81	OHX	1	3525	-	0,6,6	-	-	-		
81	OHX	AT	214	-	0,6,6	-	-	-		
81	OHX	A	2108	-	0,6,6	-	-	-		
81	OHX	AR	3445	-	0,6,6	-	-	-		
81	OHX	A	1958	-	0,6,6	-	-	-		
81	OHX	sR	1907	-	0,6,6	-	-	-		
81	OHX	sR	2016	-	0,6,6	-	-	-		
81	OHX	1	3577	-	0,6,6	-	-	-		
81	OHX	sR	1937	-	0,6,6	-	-	-		
81	OHX	1	3428	-	0,6,6	-	-	-		
81	OHX	1	4076	-	0,6,6	-	-	-		
81	OHX	AR	3449	-	0,6,6	-	-	-		
81	OHX	AR	3581	-	0,6,6	-	-	-		
81	OHX	AR	3403	-	0,6,6	-	-	-		
81	OHX	sR	2011	-	0,6,6	-	-	-		
81	OHX	sR	1961	-	0,6,6	-	-	-		
81	OHX	4	210	-	0,6,6	-	-	-		
81	OHX	A	2144	-	0,6,6	-	-	-		
81	OHX	AR	3521	-	0,6,6	-	-	-		
81	OHX	A	2139	-	0,6,6	-	-	-		
81	OHX	AR	3577	-	0,6,6	-	-	-		
81	OHX	AR	3649	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	DK	201	-	0,6,6	-	-	-		
81	OHX	AR	3625	-	0,6,6	-	-	-		
81	OHX	AT	215	-	0,6,6	-	-	-		
81	OHX	AR	3460	-	0,6,6	-	-	-		
81	OHX	AR	3613	-	0,6,6	-	-	-		
81	OHX	1	3491	-	0,6,6	-	-	-		
81	OHX	AR	3569	-	0,6,6	-	-	-		
81	OHX	sR	1994	-	0,6,6	-	-	-		
81	OHX	1	3601	-	0,6,6	-	-	-		
81	OHX	c8	201	-	0,6,6	-	-	-		
81	OHX	1	3437	-	0,6,6	-	-	-		
81	OHX	A	1942	-	0,6,6	-	-	-		
81	OHX	AR	3478[A]	-	0,6,6	-	-	-		
81	OHX	AR	3516	-	0,6,6	-	-	-		
81	OHX	AR	4196	-	0,6,6	-	-	-		
81	OHX	1	3603	-	0,6,6	-	-	-		
81	OHX	1	4094	-	0,6,6	-	-	-		
81	OHX	J	301	-	0,6,6	-	-	-		
81	OHX	1	3404	-	0,6,6	-	-	-		
81	OHX	1	3424	-	0,6,6	-	-	-		
81	OHX	S	201	-	0,6,6	-	-	-		
81	OHX	AR	3435	-	0,6,6	-	-	-		
81	OHX	AR	3671	-	0,6,6	-	-	-		
81	OHX	1	3548	-	0,6,6	-	-	-		
81	OHX	AR	3610	-	0,6,6	-	-	-		
81	OHX	1	4071	-	0,6,6	-	-	-		
81	OHX	AR	3406	-	0,6,6	-	-	-		
81	OHX	AR	3412	-	0,6,6	-	-	-		
81	OHX	A	2127	-	0,6,6	-	-	-		
81	OHX	4	211	-	0,6,6	-	-	-		
81	OHX	1	3410	-	0,6,6	-	-	-		
81	OHX	1	3481	-	0,6,6	-	-	-		
81	OHX	1	3401	-	0,6,6	-	-	-		
81	OHX	AR	3513	-	0,6,6	-	-	-		
81	OHX	A	1923	-	0,6,6	-	-	-		
81	OHX	A	2119	-	0,6,6	-	-	-		
81	OHX	AR	3644	-	0,6,6	-	-	-		
81	OHX	1	3602	-	0,6,6	-	-	-		
81	OHX	A	2136	-	0,6,6	-	-	-		
81	OHX	1	3438	-	0,6,6	-	-	-		
81	OHX	AR	3425	-	0,6,6	-	-	-		
81	OHX	sR	1916[A]	-	0,6,6	-	-	-		
81	OHX	1	3472	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	1927	-	0,6,6	-	-	-		
81	OHX	AR	3458	-	0,6,6	-	-	-		
81	OHX	1	3492	-	0,6,6	-	-	-		
81	OHX	AR	3616	-	0,6,6	-	-	-		
81	OHX	4	208	-	0,6,6	-	-	-		
81	OHX	AR	3415	-	0,6,6	-	-	-		
81	OHX	AR	3622	-	0,6,6	-	-	-		
81	OHX	1	3454	-	0,6,6	-	-	-		
81	OHX	A	1914	-	0,6,6	-	-	-		
81	OHX	AR	3652	-	0,6,6	-	-	-		
81	OHX	AR	3678	-	0,6,6	-	-	-		
81	OHX	sR	1962	-	0,6,6	-	-	-		
81	OHX	AR	3427	-	0,6,6	-	-	-		
81	OHX	A	2126	-	0,6,6	-	-	-		
81	OHX	AR	3641	-	0,6,6	-	-	-		
81	OHX	sR	2018	-	0,5,6	-	-	-		
81	OHX	1	3521	-	0,6,6	-	-	-		
81	OHX	1	3565	-	0,6,6	-	-	-		
81	OHX	sR	1998	-	0,6,6	-	-	-		
81	OHX	sR	1926	-	0,6,6	-	-	-		
81	OHX	AR	3637	-	0,6,6	-	-	-		
81	OHX	1	3526	-	0,6,6	-	-	-		
81	OHX	A	2107	-	0,6,6	-	-	-		
81	OHX	AR	3552	-	0,6,6	-	-	-		
81	OHX	sR	1938	-	0,6,6	-	-	-		
81	OHX	AR	3497	-	0,6,6	-	-	-		
81	OHX	sR	2024	-	0,6,6	-	-	-		
81	OHX	AR	3606	-	0,6,6	-	-	-		
81	OHX	1	4124	-	0,6,6	-	-	-		
81	OHX	AR	3550	-	0,6,6	-	-	-		
81	OHX	AR	3654	-	0,6,6	-	-	-		
81	OHX	1	3546	-	0,6,6	-	-	-		
81	OHX	DD	101	-	0,6,6	-	-	-		
81	OHX	sR	1918	-	0,6,6	-	-	-		
81	OHX	sR	2023	-	0,6,6	-	-	-		
81	OHX	AR	3542	-	0,6,6	-	-	-		
81	OHX	AR	3526	-	0,6,6	-	-	-		
81	OHX	1	3541	-	0,6,6	-	-	-		
81	OHX	AP	502	-	0,6,6	-	-	-		
81	OHX	AR	3478[B]	-	0,6,6	-	-	-		
81	OHX	AS	3508	-	0,6,6	-	-	-		
81	OHX	AR	3494	-	0,6,6	-	-	-		
81	OHX	A	1952	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3426	-	0,6,6	-	-	-		
81	OHX	A	1962	-	0,6,6	-	-	-		
81	OHX	sR	1989	-	0,6,6	-	-	-		
81	OHX	AR	3572	-	0,6,6	-	-	-		
81	OHX	A	1968	-	0,6,6	-	-	-		
81	OHX	AR	3632	-	0,6,6	-	-	-		
81	OHX	1	3445	-	0,6,6	-	-	-		
81	OHX	A	1965	-	0,6,6	-	-	-		
81	OHX	sR	1915	-	0,6,6	-	-	-		
81	OHX	AR	3607	-	0,6,6	-	-	-		
81	OHX	1	3482[A]	-	0,6,6	-	-	-		
81	OHX	sR	2019	-	0,6,6	-	-	-		
81	OHX	A	1927	-	0,6,6	-	-	-		
81	OHX	1	3442	-	0,6,6	-	-	-		
81	OHX	U	201	-	0,6,6	-	-	-		
81	OHX	1	3555	-	0,6,6	-	-	-		
81	OHX	3	206	-	0,6,6	-	-	-		
81	OHX	AR	3461	-	0,6,6	-	-	-		
81	OHX	4	207	-	0,6,6	-	-	-		
81	OHX	1	3403	-	0,6,6	-	-	-		
81	OHX	AR	3560	-	0,6,6	-	-	-		
81	OHX	A	1957	-	0,6,6	-	-	-		
81	OHX	AR	3487	-	0,6,6	-	-	-		
81	OHX	sR	2020	-	0,6,6	-	-	-		
81	OHX	AR	4197	-	0,6,6	-	-	-		
81	OHX	1	3564	-	0,6,6	-	-	-		
81	OHX	1	3616	-	0,6,6	-	-	-		
81	OHX	1	3457	-	0,6,6	-	-	-		
81	OHX	1	4098	-	0,6,6	-	-	-		
81	OHX	AR	3668	-	0,6,6	-	-	-		
81	OHX	sR	1990	-	0,6,6	-	-	-		
81	OHX	1	3595	-	0,6,6	-	-	-		
81	OHX	A	1906	-	0,6,6	-	-	-		
81	OHX	AR	3684	-	0,6,6	-	-	-		
81	OHX	1	4133	-	0,6,6	-	-	-		
81	OHX	1	4116	-	0,6,6	-	-	-		
81	OHX	1	3586	-	0,6,6	-	-	-		
81	OHX	AR	3522	-	0,6,6	-	-	-		
81	OHX	sR	1992	-	0,6,6	-	-	-		
81	OHX	sR	2028	-	0,6,6	-	-	-		
81	OHX	AR	3402	-	0,6,6	-	-	-		
81	OHX	AR	3631	-	0,6,6	-	-	-		
81	OHX	1	3469	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	2027	-	0,6,6	-	-	-		
81	OHX	AR	3570	-	0,6,6	-	-	-		
81	OHX	A	1950	-	0,6,6	-	-	-		
81	OHX	AR	3565	-	0,6,6	-	-	-		
81	OHX	A	1913	-	0,6,6	-	-	-		
81	OHX	1	4099	-	0,6,6	-	-	-		
81	OHX	1	3576	-	0,6,6	-	-	-		
81	OHX	1	3600	-	0,6,6	-	-	-		
81	OHX	AR	3520	-	0,6,6	-	-	-		
81	OHX	AR	3686	-	0,6,6	-	-	-		
81	OHX	A	1969	-	0,6,6	-	-	-		
81	OHX	1	4142	-	0,6,6	-	-	-		
81	OHX	1	3610	-	0,6,6	-	-	-		
81	OHX	A	2140	-	0,6,6	-	-	-		
81	OHX	1	3474	-	0,6,6	-	-	-		
81	OHX	1	3596	-	0,6,6	-	-	-		
81	OHX	CL	302[B]	-	0,6,6	-	-	-		
81	OHX	sR	2021	-	0,6,6	-	-	-		
81	OHX	AR	3437	-	0,6,6	-	-	-		
81	OHX	AR	3576	-	0,6,6	-	-	-		
81	OHX	1	3435	-	0,6,6	-	-	-		
81	OHX	1	3407	-	0,6,6	-	-	-		
81	OHX	1	3607	-	0,6,6	-	-	-		
81	OHX	A	1972	-	0,6,6	-	-	-		
81	OHX	AR	3507	-	0,6,6	-	-	-		
81	OHX	3	203	-	0,6,6	-	-	-		
81	OHX	sR	1936	-	0,6,6	-	-	-		
81	OHX	1	3415	-	0,6,6	-	-	-		
81	OHX	1	3423	-	0,6,6	-	-	-		
81	OHX	AR	3405	-	0,6,6	-	-	-		
81	OHX	AR	3663	-	0,6,6	-	-	-		
81	OHX	4	214	-	0,6,6	-	-	-		
81	OHX	3	220	-	0,6,6	-	-	-		
81	OHX	AR	3685	-	0,6,6	-	-	-		
81	OHX	4	204	-	0,6,6	-	-	-		
81	OHX	AR	3407	-	0,6,6	-	-	-		
81	OHX	AR	3551	-	0,6,6	-	-	-		
81	OHX	A	2114	-	0,6,6	-	-	-		
81	OHX	1	3478	-	0,6,6	-	-	-		
81	OHX	AR	3655	-	0,6,6	-	-	-		
81	OHX	A	1908	-	0,6,6	-	-	-		
81	OHX	A	2110	-	0,6,6	-	-	-		
81	OHX	AR	3448	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	A	2118	-	0,6,6	-	-	-		
81	OHX	1	4126	-	0,6,6	-	-	-		
81	OHX	1	3459	-	0,6,6	-	-	-		
81	OHX	1	3473	-	0,6,6	-	-	-		
81	OHX	AR	3451	-	0,6,6	-	-	-		
81	OHX	AR	3506	-	0,6,6	-	-	-		
81	OHX	1	3422	-	0,6,6	-	-	-		
81	OHX	1	3613	-	0,6,6	-	-	-		
81	OHX	1	3482[B]	-	0,6,6	-	-	-		
81	OHX	AR	3491	-	0,6,6	-	-	-		
81	OHX	A	2111	-	0,6,6	-	-	-		
81	OHX	A	2115	-	0,6,6	-	-	-		
83	SPD	AR	4206	-	9,9,9	0.32	0	8,8,8	0.89	0
81	OHX	AR	4202	-	0,6,6	-	-	-		
81	OHX	1	3594	-	0,6,6	-	-	-		
81	OHX	A	1932	-	0,6,6	-	-	-		
81	OHX	1	3552	-	0,6,6	-	-	-		
81	OHX	1	3450	-	0,6,6	-	-	-		
81	OHX	AR	4198	-	0,6,6	-	-	-		
81	OHX	s4	301	-	0,6,6	-	-	-		
81	OHX	1	3606	-	0,6,6	-	-	-		
81	OHX	sR	1947	-	0,6,6	-	-	-		
81	OHX	A	1916	-	0,6,6	-	-	-		
81	OHX	A	1922	-	0,6,6	-	-	-		
81	OHX	sR	2004	-	0,6,6	-	-	-		
81	OHX	AR	3475	-	0,6,6	-	-	-		
81	OHX	AR	3477	-	0,6,6	-	-	-		
81	OHX	CL	301	-	0,6,6	-	-	-		
81	OHX	AS	3505	-	0,6,6	-	-	-		
81	OHX	1	4114	-	0,6,6	-	-	-		
81	OHX	1	3494	-	0,6,6	-	-	-		
81	OHX	1	4143	-	0,6,6	-	-	-		
81	OHX	1	3449	-	0,6,6	-	-	-		
81	OHX	1	3558	-	0,6,6	-	-	-		
81	OHX	AR	3612	-	0,6,6	-	-	-		
81	OHX	AR	3583	-	0,6,6	-	-	-		
81	OHX	AR	3485	-	0,6,6	-	-	-		
81	OHX	AT	207	-	0,6,6	-	-	-		
81	OHX	AR	4199	-	0,6,6	-	-	-		
81	OHX	1	3551	-	0,6,6	-	-	-		
81	OHX	AG	202	-	0,6,6	-	-	-		
81	OHX	1	4102	-	0,6,6	-	-	-		
81	OHX	AR	3431	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3520	-	0,6,6	-	-	-		
81	OHX	AS	3507	-	0,6,6	-	-	-		
81	OHX	A	2123	-	0,6,6	-	-	-		
81	OHX	AR	3503	-	0,6,6	-	-	-		
81	OHX	1	3456	-	0,6,6	-	-	-		
81	OHX	1	3532	-	0,6,6	-	-	-		
81	OHX	AR	3624	-	0,6,6	-	-	-		
81	OHX	A	1948	81	0,6,6	-	-	-		
81	OHX	4	206	-	0,6,6	-	-	-		
81	OHX	AR	3457	-	0,6,6	-	-	-		
81	OHX	AR	3531	-	0,6,6	-	-	-		
81	OHX	3	202	-	0,6,6	-	-	-		
81	OHX	AR	3614	-	0,6,6	-	-	-		
81	OHX	AR	3587	-	0,6,6	-	-	-		
81	OHX	sR	2013	-	0,6,6	-	-	-		
81	OHX	1	3554	-	0,6,6	-	-	-		
81	OHX	AR	3557	-	0,6,6	-	-	-		
81	OHX	AR	3416	-	0,6,6	-	-	-		
81	OHX	1	3599	-	0,6,6	-	-	-		
81	OHX	3	201	-	0,6,6	-	-	-		
81	OHX	CG	301	-	0,5,6	-	-	-		
81	OHX	AR	4203	-	0,6,6	-	-	-		
81	OHX	1	3615	-	0,6,6	-	-	-		
81	OHX	sR	1931	-	0,6,6	-	-	-		
81	OHX	1	3414	-	0,6,6	-	-	-		
81	OHX	AR	3466	-	0,6,6	-	-	-		
81	OHX	A	1920	-	0,6,6	-	-	-		
81	OHX	1	3506	-	0,6,6	-	-	-		
81	OHX	sR	1983	-	0,6,6	-	-	-		
81	OHX	1	3518	-	0,6,6	-	-	-		
81	OHX	sR	1968	-	0,6,6	-	-	-		
81	OHX	AT	209	-	0,6,6	-	-	-		
81	OHX	AR	3467	-	0,6,6	-	-	-		
81	OHX	1	3571	-	0,6,6	-	-	-		
81	OHX	AR	3592	-	0,5,6	-	-	-		
81	OHX	1	3490	-	0,6,6	-	-	-		
81	OHX	CP	301	-	0,6,6	-	-	-		
81	OHX	O	201	-	0,6,6	-	-	-		
81	OHX	AR	3635	-	0,6,6	-	-	-		
81	OHX	1	3488	-	0,6,6	-	-	-		
81	OHX	sR	1973	-	0,6,6	-	-	-		
81	OHX	AC	101	-	0,6,6	-	-	-		
81	OHX	AR	3657	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3484	-	0,6,6	-	-	-		
81	OHX	1	3408	-	0,6,6	-	-	-		
81	OHX	1	3483	-	0,6,6	-	-	-		
81	OHX	A	1956	-	0,6,6	-	-	-		
81	OHX	A	2105	-	0,6,6	-	-	-		
81	OHX	A	2143	81	0,5,6	-	-	-		
81	OHX	sR	2009	-	0,6,6	-	-	-		
81	OHX	1	3517	-	0,6,6	-	-	-		
81	OHX	c3	201	-	0,6,6	-	-	-		
81	OHX	4	213	-	0,6,6	-	-	-		
81	OHX	AR	3468	-	0,6,6	-	-	-		
81	OHX	4	235	-	0,6,6	-	-	-		
81	OHX	AR	3440	-	0,6,6	-	-	-		
81	OHX	A	2130	-	0,6,6	-	-	-		
81	OHX	AR	3500	-	0,6,6	-	-	-		
81	OHX	AR	3549	-	0,6,6	-	-	-		
81	OHX	sR	1997	-	0,6,6	-	-	-		
81	OHX	sR	2170	-	0,6,6	-	-	-		
81	OHX	1	4104	-	0,6,6	-	-	-		
81	OHX	AR	3423	-	0,6,6	-	-	-		
81	OHX	1	3611	-	0,6,6	-	-	-		
81	OHX	AR	3650	-	0,6,6	-	-	-		
81	OHX	AR	3517	-	0,6,6	-	-	-		
81	OHX	sR	1930	-	0,6,6	-	-	-		
81	OHX	A	1954	-	0,6,6	-	-	-		
81	OHX	1	3462	-	0,6,6	-	-	-		
81	OHX	1	3591	-	0,6,6	-	-	-		
81	OHX	1	3528	-	0,6,6	-	-	-		
81	OHX	A	1934	-	0,6,6	-	-	-		
81	OHX	A	1973	-	0,6,6	-	-	-		
81	OHX	AR	3426	-	0,6,6	-	-	-		
81	OHX	AR	3444	-	0,6,6	-	-	-		
81	OHX	AR	3510	-	0,6,6	-	-	-		
81	OHX	AR	3429	-	0,6,6	-	-	-		
81	OHX	1	3416	-	0,6,6	-	-	-		
81	OHX	AR	3463	-	0,6,6	-	-	-		
81	OHX	AR	3566	-	0,6,6	-	-	-		
81	OHX	1	4105	-	0,5,6	-	-	-		
81	OHX	AR	3509	-	0,6,6	-	-	-		
81	OHX	A	1931	-	0,6,6	-	-	-		
81	OHX	AR	3554	-	0,6,6	-	-	-		
81	OHX	AR	3528	-	0,6,6	-	-	-		
81	OHX	AR	3599	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	AR	3601	-	0,6,6	-	-	-		
81	OHX	sR	1908	-	0,6,6	-	-	-		
81	OHX	1	4091	-	0,6,6	-	-	-		
81	OHX	A	2100	-	0,6,6	-	-	-		
81	OHX	AR	3447	-	0,6,6	-	-	-		
81	OHX	AR	3540	-	0,6,6	-	-	-		
81	OHX	1	3608[A]	-	0,6,6	-	-	-		
81	OHX	AR	3615	-	0,6,6	-	-	-		
81	OHX	A	1912	-	0,6,6	-	-	-		
81	OHX	s1	301	-	0,6,6	-	-	-		
81	OHX	AR	3443	-	0,6,6	-	-	-		
81	OHX	sR	1987	-	0,6,6	-	-	-		
81	OHX	AR	3417	-	0,6,6	-	-	-		
81	OHX	sR	1971	-	0,6,6	-	-	-		
81	OHX	1	3574	-	0,6,6	-	-	-		
81	OHX	sR	1974	-	0,6,6	-	-	-		
81	OHX	c5	201	-	0,6,6	-	-	-		
81	OHX	1	3519[A]	-	0,6,6	-	-	-		
81	OHX	AR	3489	-	0,6,6	-	-	-		
81	OHX	A	2129	-	0,6,6	-	-	-		
81	OHX	AR	3648	-	0,6,6	-	-	-		
81	OHX	AR	3679	-	0,6,6	-	-	-		
81	OHX	1	3475	-	0,6,6	-	-	-		
81	OHX	1	3573	-	0,6,6	-	-	-		
81	OHX	A	1905	-	0,6,6	-	-	-		
81	OHX	sR	1921	-	0,6,6	-	-	-		
81	OHX	AR	3408	-	0,6,6	-	-	-		
81	OHX	AR	3439	-	0,6,6	-	-	-		
81	OHX	AR	3626	-	0,6,6	-	-	-		
81	OHX	1	3538	-	0,6,6	-	-	-		
81	OHX	1	3487	-	0,6,6	-	-	-		
81	OHX	1	4137	-	0,6,6	-	-	-		
81	OHX	AR	3488	-	0,6,6	-	-	-		
81	OHX	sR	1913	-	0,6,6	-	-	-		
81	OHX	AR	3529	-	0,6,6	-	-	-		
81	OHX	sR	1970	-	0,6,6	-	-	-		
81	OHX	3	221	-	0,6,6	-	-	-		
81	OHX	AR	3683	-	0,6,6	-	-	-		
81	OHX	1	4118	-	0,6,6	-	-	-		
81	OHX	AR	3682	-	0,6,6	-	-	-		
81	OHX	AR	3617	-	0,6,6	-	-	-		
81	OHX	1	3500	-	0,6,6	-	-	-		
81	OHX	sR	1903	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
81	OHX	sR	1925	-	0,6,6	-	-	-		
81	OHX	AR	3544	-	0,6,6	-	-	-		
81	OHX	AR	3496	-	0,6,6	-	-	-		
81	OHX	1	4120	-	0,5,6	-	-	-		
81	OHX	AS	3501	-	0,6,6	-	-	-		
81	OHX	1	3464	-	0,6,6	-	-	-		
81	OHX	AR	3558	-	0,6,6	-	-	-		
81	OHX	AR	3502	-	0,6,6	-	-	-		
81	OHX	1	4119	-	0,6,6	-	-	-		
81	OHX	1	4123	-	0,6,6	-	-	-		
81	OHX	3	222	-	0,6,6	-	-	-		
81	OHX	1	4090	-	0,5,6	-	-	-		
81	OHX	AS	3510	-	0,6,6	-	-	-		
81	OHX	1	3477	-	0,6,6	-	-	-		
81	OHX	1	3429	-	0,6,6	-	-	-		
81	OHX	1	3510	-	0,6,6	-	-	-		
81	OHX	1	3432	-	0,6,6	-	-	-		
81	OHX	AR	3480	-	0,6,6	-	-	-		
81	OHX	AS	3509	-	0,6,6	-	-	-		
81	OHX	1	3466	-	0,6,6	-	-	-		
81	OHX	sR	1999	-	0,6,6	-	-	-		
81	OHX	AR	3636	-	0,6,6	-	-	-		
81	OHX	1	3542	-	0,6,6	-	-	-		
81	OHX	A	2125	-	0,6,6	-	-	-		
81	OHX	sR	2012	-	0,6,6	-	-	-		
81	OHX	1	3507	-	0,6,6	-	-	-		
81	OHX	1	3549	-	0,6,6	-	-	-		
81	OHX	1	3540	-	0,6,6	-	-	-		
81	OHX	k	402	-	0,6,6	-	-	-		
81	OHX	1	3412	-	0,6,6	-	-	-		
81	OHX	1	3592	-	0,6,6	-	-	-		
81	OHX	AR	3674	-	0,6,6	-	-	-		
81	OHX	A	1925	-	0,6,6	-	-	-		
81	OHX	AR	3462	-	0,6,6	-	-	-		
81	OHX	AR	3422	-	0,6,6	-	-	-		
81	OHX	e	102	-	0,6,6	-	-	-		
81	OHX	sR	2171	-	0,6,6	-	-	-		
81	OHX	1	3485[A]	-	0,6,6	-	-	-		
81	OHX	A	1902	-	0,6,6	-	-	-		
81	OHX	DQ	502	-	0,6,6	-	-	-		
81	OHX	AR	3643	-	0,6,6	-	-	-		
81	OHX	1	4100	-	0,6,6	-	-	-		
81	OHX	sR	1984	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3608[B]	-	0,6,6	-	-	-		
81	OHX	sR	1932	-	0,6,6	-	-	-		
81	OHX	1	3556	-	0,6,6	-	-	-		
81	OHX	A	2134	-	0,6,6	-	-	-		
81	OHX	1	4115	-	0,6,6	-	-	-		
81	OHX	AR	3582	-	0,6,6	-	-	-		
81	OHX	A	1919	-	0,6,6	-	-	-		
81	OHX	AR	3409	-	0,6,6	-	-	-		
81	OHX	AR	3562	-	0,6,6	-	-	-		
81	OHX	1	3451	-	0,6,6	-	-	-		
81	OHX	1	3523	-	0,6,6	-	-	-		
81	OHX	1	3519[B]	-	0,6,6	-	-	-		
81	OHX	AR	3471	-	0,6,6	-	-	-		
81	OHX	1	4072	-	0,6,6	-	-	-		
81	OHX	AR	3647	-	0,6,6	-	-	-		
81	OHX	AR	3561	-	0,6,6	-	-	-		
81	OHX	AR	3515	-	0,6,6	-	-	-		
81	OHX	AR	3530	-	0,6,6	-	-	-		
81	OHX	A	2121	-	0,6,6	-	-	-		
81	OHX	sR	1916[B]	-	0,6,6	-	-	-		
81	OHX	AR	3664	-	0,6,6	-	-	-		
81	OHX	1	3503	-	0,6,6	-	-	-		
81	OHX	3	205	-	0,6,6	-	-	-		
81	OHX	AR	3523	-	0,6,6	-	-	-		
81	OHX	sR	1941	-	0,6,6	-	-	-		
81	OHX	1	3550	-	0,6,6	-	-	-		
81	OHX	1	3460	-	0,6,6	-	-	-		
81	OHX	1	3570	-	0,6,6	-	-	-		
81	OHX	sR	1975	-	0,6,6	-	-	-		
81	OHX	sR	2174	-	0,6,6	-	-	-		
81	OHX	sR	1982	-	0,6,6	-	-	-		
81	OHX	1	3569	-	0,6,6	-	-	-		
81	OHX	1	3496	-	0,6,6	-	-	-		
81	OHX	AR	3433	-	0,6,6	-	-	-		
81	OHX	d0	201	-	0,6,6	-	-	-		
81	OHX	AT	208	-	0,6,6	-	-	-		
81	OHX	A	1926	-	0,6,6	-	-	-		
81	OHX	sR	1988	-	0,6,6	-	-	-		
81	OHX	AR	3578	-	0,6,6	-	-	-		
81	OHX	1	4140	-	0,6,6	-	-	-		
81	OHX	AR	4175	-	0,6,6	-	-	-		
81	OHX	1	3566	-	0,6,6	-	-	-		
81	OHX	1	4075	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3467[A]	-	0,5,6	-	-	-		
81	OHX	AR	3532	-	0,6,6	-	-	-		
81	OHX	1	3505	-	0,6,6	-	-	-		
81	OHX	AR	3662	-	0,6,6	-	-	-		
81	OHX	A	2116	-	0,6,6	-	-	-		
81	OHX	AR	3681	-	0,6,6	-	-	-		
81	OHX	A	1924	-	0,6,6	-	-	-		
81	OHX	sR	1944	-	0,6,6	-	-	-		
81	OHX	1	4139	-	0,6,6	-	-	-		
81	OHX	AR	3589	-	0,5,6	-	-	-		
81	OHX	1	3489	-	0,6,6	-	-	-		
81	OHX	A	1971	-	0,6,6	-	-	-		
81	OHX	Q	201	-	0,6,6	-	-	-		
81	OHX	1	4128	-	0,6,6	-	-	-		
81	OHX	1	3547	-	0,6,6	-	-	-		
81	OHX	CG	303	-	0,6,6	-	-	-		
81	OHX	A	2103	-	0,6,6	-	-	-		
81	OHX	sR	1901	-	0,6,6	-	-	-		
81	OHX	1	3597	-	0,6,6	-	-	-		
81	OHX	1	3443	-	0,6,6	-	-	-		
81	OHX	sR	1953	-	0,6,6	-	-	-		
81	OHX	AR	3420	-	0,6,6	-	-	-		
81	OHX	AR	3465	-	0,6,6	-	-	-		
81	OHX	AR	3545	-	0,6,6	-	-	-		
81	OHX	AR	3553	-	0,6,6	-	-	-		
81	OHX	AR	3621	-	0,6,6	-	-	-		
81	OHX	A	1975	-	0,6,6	-	-	-		
81	OHX	AT	203	-	0,6,6	-	-	-		
81	OHX	A	1921	-	0,6,6	-	-	-		
81	OHX	1	4108	-	0,6,6	-	-	-		
81	OHX	sR	2175	-	0,6,6	-	-	-		
81	OHX	1	4122	-	0,6,6	-	-	-		
81	OHX	AR	3618	-	0,6,6	-	-	-		
81	OHX	A	1915	-	0,6,6	-	-	-		
81	OHX	1	3535[A]	-	0,6,6	-	-	-		
81	OHX	AR	3499	-	0,6,6	-	-	-		
81	OHX	AR	3504	-	0,6,6	-	-	-		
81	OHX	AR	4200	-	0,6,6	-	-	-		
81	OHX	sR	2001	-	0,6,6	-	-	-		
81	OHX	sR	1950[A]	-	0,6,6	-	-	-		
81	OHX	1	3485[B]	-	0,6,6	-	-	-		
81	OHX	AR	3619	-	0,6,6	-	-	-		
81	OHX	AR	3453	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	4093	-	0,6,6	-	-	-		
81	OHX	sR	2015	-	0,6,6	-	-	-		
81	OHX	1	4136	-	0,6,6	-	-	-		
81	OHX	A	2112	-	0,6,6	-	-	-		
81	OHX	AR	3538	-	0,6,6	-	-	-		
81	OHX	1	3524	-	0,6,6	-	-	-		
81	OHX	AR	3605	-	0,6,6	-	-	-		
81	OHX	1	3533	-	0,6,6	-	-	-		
81	OHX	AR	3430	-	0,6,6	-	-	-		
81	OHX	AS	3530	-	0,6,6	-	-	-		
81	OHX	1	3515	-	0,6,6	-	-	-		
81	OHX	1	3530	-	0,6,6	-	-	-		
81	OHX	AR	3672	-	0,6,6	-	-	-		
81	OHX	sR	1952	-	0,6,6	-	-	-		
81	OHX	AR	3414	-	0,6,6	-	-	-		
81	OHX	1	3497	-	0,6,6	-	-	-		
81	OHX	1	4131	-	0,6,6	-	-	-		
81	OHX	A	2104	-	0,6,6	-	-	-		
81	OHX	sR	1948	-	0,6,6	-	-	-		
81	OHX	1	3588	-	0,6,6	-	-	-		
81	OHX	l	402	-	0,6,6	-	-	-		
81	OHX	sR	2177	-	0,6,6	-	-	-		
81	OHX	1	4112	-	0,6,6	-	-	-		
81	OHX	A	1944	-	0,6,6	-	-	-		
81	OHX	x	209	-	0,6,6	-	-	-		
81	OHX	AR	3591	-	0,6,6	-	-	-		
81	OHX	1	3406	-	0,6,6	-	-	-		
81	OHX	A	1904	-	0,6,6	-	-	-		
81	OHX	AR	3498	-	0,6,6	-	-	-		
81	OHX	AR	3568	-	0,6,6	-	-	-		
81	OHX	AR	3594	-	0,6,6	-	-	-		
81	OHX	sR	1993	-	0,6,6	-	-	-		
81	OHX	AR	3424	-	0,6,6	-	-	-		
81	OHX	AR	3574	-	0,6,6	-	-	-		
81	OHX	AR	3495	-	0,6,6	-	-	-		
81	OHX	AR	3659	-	0,6,6	-	-	-		
81	OHX	1	4103	-	0,6,6	-	-	-		
81	OHX	1	4106	-	0,6,6	-	-	-		
81	OHX	A	1967	-	0,6,6	-	-	-		
81	OHX	1	4087	-	0,6,6	-	-	-		
81	OHX	A	1910	-	0,6,6	-	-	-		
81	OHX	sR	1978	-	0,6,6	-	-	-		
81	OHX	z	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	1923	-	0,6,6	-	-	-		
81	OHX	A	1941	-	0,6,6	-	-	-		
81	OHX	AR	4179	-	0,6,6	-	-	-		
81	OHX	sR	1963	-	0,6,6	-	-	-		
81	OHX	AR	3645	-	0,6,6	-	-	-		
81	OHX	sR	1991	-	0,6,6	-	-	-		
81	OHX	1	3458	-	0,6,6	-	-	-		
81	OHX	A	2122	-	0,6,6	-	-	-		
81	OHX	A	2135	-	0,6,6	-	-	-		
81	OHX	1	3572	-	0,6,6	-	-	-		
81	OHX	1	3467[B]	-	0,5,6	-	-	-		
81	OHX	AR	3593	-	0,6,6	-	-	-		
81	OHX	1	3463	-	0,6,6	-	-	-		
81	OHX	sR	1922	-	0,6,6	-	-	-		
81	OHX	sR	1933	-	0,6,6	-	-	-		
81	OHX	1	3545	-	0,6,6	-	-	-		
81	OHX	AR	3525	-	0,6,6	-	-	-		
81	OHX	1	3461	-	0,6,6	-	-	-		
81	OHX	AR	3536	-	0,6,6	-	-	-		
81	OHX	AR	3573	-	0,6,6	-	-	-		
81	OHX	sR	1914	-	0,6,6	-	-	-		
81	OHX	1	3448	-	0,6,6	-	-	-		
81	OHX	AR	3639	-	0,6,6	-	-	-		
81	OHX	CX	201	-	0,6,6	-	-	-		
81	OHX	AR	3534	-	0,6,6	-	-	-		
81	OHX	A	1943	-	0,6,6	-	-	-		
81	OHX	sR	1958	-	0,6,6	-	-	-		
81	OHX	AR	3476	-	0,6,6	-	-	-		
81	OHX	AR	3533	-	0,6,6	-	-	-		
81	OHX	A	1945	-	0,6,6	-	-	-		
81	OHX	4	202	-	0,6,6	-	-	-		
81	OHX	sR	2026	-	0,6,6	-	-	-		
81	OHX	1	3561	-	0,6,6	-	-	-		
81	OHX	4	205	-	0,6,6	-	-	-		
81	OHX	AR	3651	-	0,6,6	-	-	-		
81	OHX	sR	1949	-	0,6,6	-	-	-		
81	OHX	4	201	-	0,6,6	-	-	-		
81	OHX	AR	3556	-	0,6,6	-	-	-		
81	OHX	1	3535[B]	-	0,6,6	-	-	-		
81	OHX	sR	1955	-	0,6,6	-	-	-		
81	OHX	1	3614	-	0,6,6	-	-	-		
81	OHX	r	304	-	0,6,6	-	-	-		
81	OHX	1	3430	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	AR	3511[A]	-	0,6,6	-	-	-		
81	OHX	AT	213	-	0,6,6	-	-	-		
81	OHX	A	1928	-	0,6,6	-	-	-		
81	OHX	sR	1951	-	0,6,6	-	-	-		
81	OHX	sR	2168	-	0,6,6	-	-	-		
81	OHX	A	1933	-	0,6,6	-	-	-		
84	XBI	1	4157	-	28,28,28	0.60	2 (7%)	37,45,45	2.19	7 (18%)
81	OHX	sR	1957	-	0,6,6	-	-	-		
81	OHX	3	219	-	0,6,6	-	-	-		
81	OHX	sR	2008	-	0,6,6	-	-	-		
81	OHX	1	3418	-	0,6,6	-	-	-		
81	OHX	1	3529	-	0,6,6	-	-	-		
81	OHX	A	1946	-	0,6,6	-	-	-		
81	OHX	sR	1945	-	0,6,6	-	-	-		
81	OHX	sR	2176	-	0,6,6	-	-	-		
81	OHX	AR	3535	-	0,6,6	-	-	-		
81	OHX	AR	3479	-	0,6,6	-	-	-		
81	OHX	sR	1911	-	0,6,6	-	-	-		
81	OHX	1	4109	-	0,6,6	-	-	-		
81	OHX	sR	2178	-	0,6,6	-	-	-		
81	OHX	AR	3642	-	0,6,6	-	-	-		
81	OHX	AR	3687[A]	-	0,6,6	-	-	-		
81	OHX	1	3452	-	0,6,6	-	-	-		
81	OHX	AR	3541	-	0,6,6	-	-	-		
81	OHX	AR	3623	-	0,6,6	-	-	-		
81	OHX	sR	2017	-	0,6,6	-	-	-		
81	OHX	sR	1979	-	0,6,6	-	-	-		
81	OHX	1	3589	-	0,6,6	-	-	-		
81	OHX	AR	3518	-	0,6,6	-	-	-		
81	OHX	A	2109	-	0,6,6	-	-	-		
81	OHX	AT	206	-	0,6,6	-	-	-		
81	OHX	1	3440	-	0,6,6	-	-	-		
81	OHX	3	204	-	0,6,6	-	-	-		
81	OHX	AR	3571	-	0,6,6	-	-	-		
81	OHX	AR	3661	-	0,6,6	-	-	-		
81	OHX	AT	216	-	0,6,6	-	-	-		
81	OHX	AR	3537	-	0,6,6	-	-	-		
81	OHX	sR	1928	-	0,6,6	-	-	-		
81	OHX	AR	3434	-	0,6,6	-	-	-		
81	OHX	1	3409	-	0,6,6	-	-	-		
81	OHX	1	3581	-	0,6,6	-	-	-		
81	OHX	1	3417	-	0,6,6	-	-	-		
81	OHX	1	3444	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	A	2145	-	0,6,6	-	-	-		
81	OHX	AR	3472	-	0,6,6	-	-	-		
81	OHX	sR	1965	-	0,6,6	-	-	-		
81	OHX	1	4129	-	0,6,6	-	-	-		
81	OHX	A	2138	-	0,6,6	-	-	-		
81	OHX	1	3559	-	0,6,6	-	-	-		
81	OHX	1	3580	-	0,6,6	-	-	-		
81	OHX	1	3480	-	0,6,6	-	-	-		
81	OHX	1	4111	-	0,6,6	-	-	-		
81	OHX	sR	1906	-	0,6,6	-	-	-		
81	OHX	AT	201	-	0,6,6	-	-	-		
81	OHX	sR	2173	-	0,6,6	-	-	-		
81	OHX	1	3527	-	0,6,6	-	-	-		
81	OHX	1	4138	-	0,6,6	-	-	-		
81	OHX	1	4097	-	0,6,6	-	-	-		
81	OHX	1	3499	-	0,6,6	-	-	-		
81	OHX	AR	3413	-	0,6,6	-	-	-		
81	OHX	1	3447	-	0,6,6	-	-	-		
81	OHX	AR	3539	-	0,6,6	-	-	-		
81	OHX	AR	3563	-	0,6,6	-	-	-		
81	OHX	sR	1919	-	0,6,6	-	-	-		
81	OHX	DL	102	-	0,6,6	-	-	-		
81	OHX	AT	211	-	0,6,6	-	-	-		
81	OHX	1	3534	-	0,6,6	-	-	-		
81	OHX	1	3427	-	0,6,6	-	-	-		
81	OHX	1	3405	-	0,6,6	-	-	-		
81	OHX	AR	3508	-	0,6,6	-	-	-		
81	OHX	AR	3421	-	0,6,6	-	-	-		
81	OHX	AR	3492	-	0,6,6	-	-	-		
81	OHX	AR	3580	-	0,6,6	-	-	-		
81	OHX	z	203	-	0,6,6	-	-	-		
81	OHX	1	3568	-	0,6,6	-	-	-		
81	OHX	1	3553	-	0,6,6	-	-	-		
81	OHX	1	3578	-	0,6,6	-	-	-		
81	OHX	AR	3590	-	0,6,6	-	-	-		
81	OHX	A	1911	-	0,6,6	-	-	-		
81	OHX	3	218	-	0,6,6	-	-	-		
81	OHX	AR	3670	-	0,6,6	-	-	-		
81	OHX	A	1929	-	0,6,6	-	-	-		
81	OHX	1	3522	-	0,6,6	-	-	-		
81	OHX	1	3439	-	0,6,6	-	-	-		
81	OHX	AR	3646	-	0,6,6	-	-	-		
81	OHX	A	1937	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	2014	-	0,6,6	-	-	-		
81	OHX	AR	3442	-	0,6,6	-	-	-		
81	OHX	sR	1939	-	0,6,6	-	-	-		
81	OHX	4	215	-	0,6,6	-	-	-		
81	OHX	sR	2005	-	0,6,6	-	-	-		
81	OHX	1	3582	-	0,6,6	-	-	-		
81	OHX	1	3562	-	0,6,6	-	-	-		
81	OHX	AR	3474	-	0,6,6	-	-	-		
81	OHX	AR	3667	-	0,6,6	-	-	-		
81	OHX	AT	202	-	0,6,6	-	-	-		
81	OHX	1	4127	-	0,6,6	-	-	-		
81	OHX	1	3431	-	0,6,6	-	-	-		
81	OHX	1	3455	-	0,6,6	-	-	-		
81	OHX	1	3468	-	0,6,6	-	-	-		
81	OHX	1	3471	-	0,6,6	-	-	-		
81	OHX	AR	3411	-	0,6,6	-	-	-		
81	OHX	sR	1943	-	0,6,6	-	-	-		
81	OHX	AR	3452	-	0,6,6	-	-	-		
81	OHX	CQ	202	-	0,6,6	-	-	-		
81	OHX	AR	3511[B]	-	0,6,6	-	-	-		
81	OHX	AR	3656	-	0,6,6	-	-	-		
81	OHX	AR	3634	-	0,6,6	-	-	-		
81	OHX	AR	3660	-	0,6,6	-	-	-		
81	OHX	A	1961	-	0,6,6	-	-	-		
81	OHX	A	1938	-	0,6,6	-	-	-		
81	OHX	AK	103	-	0,6,6	-	-	-		
81	OHX	1	3516	-	0,6,6	-	-	-		
81	OHX	1	4113	-	0,6,6	-	-	-		
81	OHX	1	4095	-	0,6,6	-	-	-		
81	OHX	CG	302	-	0,6,6	-	-	-		
81	OHX	1	4135	-	0,6,6	-	-	-		
81	OHX	AR	3687[B]	-	0,6,6	-	-	-		
81	OHX	AR	3658	-	0,6,6	-	-	-		
81	OHX	1	3598	-	0,6,6	-	-	-		
81	OHX	sR	1964	-	0,6,6	-	-	-		
81	OHX	1	3453	-	0,6,6	-	-	-		
81	OHX	1	4132	-	0,6,6	-	-	-		
81	OHX	1	3560	-	0,6,6	-	-	-		
81	OHX	sR	1956	-	0,6,6	-	-	-		
81	OHX	AR	3470	-	0,6,6	-	-	-		
81	OHX	A	1949	-	0,6,6	-	-	-		
81	OHX	CE	404	-	0,6,6	-	-	-		
81	OHX	sR	2022	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3536	-	0,6,6	-	-	-		
81	OHX	v	301	-	0,6,6	-	-	-		
81	OHX	A	1974	-	0,6,6	-	-	-		
81	OHX	1	3557	-	0,6,6	-	-	-		
81	OHX	1	3511	-	0,6,6	-	-	-		
81	OHX	AR	3579	-	0,6,6	-	-	-		
81	OHX	CE	403	-	0,6,6	-	-	-		
81	OHX	sR	1980	-	0,6,6	-	-	-		
81	OHX	AR	3505	-	0,6,6	-	-	-		
81	OHX	A	1966	-	0,6,6	-	-	-		
81	OHX	AR	3419	-	0,6,6	-	-	-		
81	OHX	AR	3514	-	0,6,6	-	-	-		
81	OHX	AR	3598	-	0,6,6	-	-	-		
81	OHX	1	3420	-	0,6,6	-	-	-		
81	OHX	A	1947	-	0,6,6	-	-	-		
81	OHX	A	2132	-	0,6,6	-	-	-		
81	OHX	AR	3609	-	0,6,6	-	-	-		
81	OHX	A	2131	-	0,6,6	-	-	-		
81	OHX	1	4125	-	0,6,6	-	-	-		
81	OHX	A	2137	-	0,6,6	-	-	-		
81	OHX	AR	3675	-	0,6,6	-	-	-		
81	OHX	4	212	-	0,6,6	-	-	-		
81	OHX	AR	3450	-	0,6,6	-	-	-		
81	OHX	sR	1934	-	0,6,6	-	-	-		
81	OHX	A	1953	-	0,6,6	-	-	-		
81	OHX	CL	302[A]	-	0,6,6	-	-	-		
81	OHX	AR	3567	-	0,6,6	-	-	-		
81	OHX	1	3590	-	0,6,6	-	-	-		
81	OHX	AR	3640	-	0,6,6	-	-	-		
81	OHX	A	1964	-	0,6,6	-	-	-		
81	OHX	1	3504	-	0,6,6	-	-	-		
81	OHX	1	3587	-	0,6,6	-	-	-		
81	OHX	AR	3493	-	0,6,6	-	-	-		
81	OHX	A	1909	-	0,6,6	-	-	-		
81	OHX	AR	3455	-	0,6,6	-	-	-		
81	OHX	1	3501	-	0,6,6	-	-	-		
81	OHX	AR	3630	-	0,6,6	-	-	-		
81	OHX	sR	1942	-	0,6,6	-	-	-		
81	OHX	1	3502	-	0,6,6	-	-	-		
81	OHX	CS	201	-	0,6,6	-	-	-		
81	OHX	1	3433	-	0,6,6	-	-	-		
81	OHX	A	1917	-	0,6,6	-	-	-		
81	OHX	A	2124	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	1995	-	0,6,6	-	-	-		
81	OHX	1	3605	-	0,6,6	-	-	-		
81	OHX	1	4096	-	0,6,6	-	-	-		
81	OHX	A	1970	-	0,6,6	-	-	-		
81	OHX	sR	1920	-	0,6,6	-	-	-		
81	OHX	AR	3548	-	0,6,6	-	-	-		
81	OHX	AR	3483	-	0,6,6	-	-	-		
81	OHX	sR	1959	-	0,6,6	-	-	-		
81	OHX	1	3434	-	0,6,6	-	-	-		
81	OHX	sR	1924	-	0,6,6	-	-	-		
81	OHX	AR	3486	-	0,6,6	-	-	-		
81	OHX	AR	3653	-	0,6,6	-	-	-		
81	OHX	AR	3481	-	0,6,6	-	-	-		
81	OHX	AR	3688	-	0,6,6	-	-	-		
81	OHX	sR	2002	-	0,6,6	-	-	-		
81	OHX	sR	1960	-	0,6,6	-	-	-		
81	OHX	1	3612	-	0,6,6	-	-	-		
81	OHX	sR	1904	-	0,6,6	-	-	-		
81	OHX	A	2141	-	0,6,6	-	-	-		
81	OHX	AR	3559	-	0,6,6	-	-	-		
81	OHX	AR	3546	-	0,6,6	-	-	-		
83	SPD	1	4144	-	9,9,9	0.32	0	8,8,8	1.07	0
81	OHX	AR	3665	-	0,6,6	-	-	-		
81	OHX	AR	4205	-	0,5,6	-	-	-		
81	OHX	1	4092	-	0,6,6	-	-	-		
81	OHX	AR	3629	-	0,6,6	-	-	-		
81	OHX	AR	3633	-	0,6,6	-	-	-		
81	OHX	sR	1981	-	0,6,6	-	-	-		
81	OHX	AR	3676	-	0,6,6	-	-	-		
81	OHX	1	3495	-	0,6,6	-	-	-		
81	OHX	AR	3446	-	0,6,6	-	-	-		
81	OHX	AR	3575	-	0,6,6	-	-	-		
81	OHX	AR	3428	-	0,6,6	-	-	-		
81	OHX	A	2117	-	0,6,6	-	-	-		
81	OHX	1	3470	-	0,6,6	-	-	-		
81	OHX	1	4068	-	0,6,6	-	-	-		
81	OHX	AR	3604	-	0,6,6	-	-	-		
81	OHX	1	3513	-	0,6,6	-	-	-		
81	OHX	AR	3519	-	0,6,6	-	-	-		
81	OHX	A	1918	-	0,6,6	-	-	-		
81	OHX	A	2106	-	0,6,6	-	-	-		
81	OHX	AR	3512	-	0,6,6	-	-	-		
81	OHX	1	3539	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	1	3419	-	0,6,6	-	-	-		
81	OHX	AR	3584	-	0,6,6	-	-	-		
81	OHX	A	2142	-	0,6,6	-	-	-		
81	OHX	A	1930	-	0,6,6	-	-	-		
81	OHX	1	3465	-	0,6,6	-	-	-		
81	OHX	1	3593	-	0,6,6	-	-	-		
81	OHX	sR	2172	-	0,6,6	-	-	-		
81	OHX	1	4107	-	0,6,6	-	-	-		
81	OHX	AR	3410	-	0,6,6	-	-	-		
81	OHX	1	3609	-	0,6,6	-	-	-		
81	OHX	sR	1966	-	0,6,6	-	-	-		
81	OHX	sR	1985	-	0,6,6	-	-	-		
81	OHX	AR	3547	-	0,6,6	-	-	-		
81	OHX	sR	2025	-	0,6,6	-	-	-		
81	OHX	1	3543	-	0,6,6	-	-	-		
81	OHX	sR	1967	-	0,6,6	-	-	-		
81	OHX	sR	1910	-	0,6,6	-	-	-		
81	OHX	1	4134	-	0,4,6	-	-	-		
81	OHX	1	3425	-	0,6,6	-	-	-		
81	OHX	AR	4195	-	0,6,6	-	-	-		
81	OHX	AR	3490	-	0,6,6	-	-	-		
81	OHX	AS	3506	-	0,6,6	-	-	-		
81	OHX	AT	210	-	0,6,6	-	-	-		
81	OHX	1	3476	-	0,6,6	-	-	-		
81	OHX	1	3436	-	0,6,6	-	-	-		
81	OHX	AR	3677	-	0,6,6	-	-	-		
81	OHX	1	3402	-	0,6,6	-	-	-		
81	OHX	A	1951	-	0,6,6	-	-	-		
81	OHX	AR	3611	-	0,6,6	-	-	-		
81	OHX	1	4130	-	0,6,6	-	-	-		
81	OHX	AT	212	-	0,6,6	-	-	-		
81	OHX	sR	1946	-	0,6,6	-	-	-		
81	OHX	sR	1986	-	0,6,6	-	-	-		
81	OHX	1	3537	-	0,6,6	-	-	-		
81	OHX	AR	3597	-	0,6,6	-	-	-		
81	OHX	1	3509	-	0,6,6	-	-	-		
81	OHX	A	2128	-	0,6,6	-	-	-		
81	OHX	CK	201	-	0,6,6	-	-	-		
81	OHX	1	3544	-	0,6,6	-	-	-		
81	OHX	4	209	-	0,6,6	-	-	-		
81	OHX	sR	2010	-	0,6,6	-	-	-		
81	OHX	AR	3585	-	0,6,6	-	-	-		
81	OHX	AR	4204	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
81	OHX	sR	2007	-	0,6,6	-	-	-		
81	OHX	sR	2003	-	0,6,6	-	-	-		
81	OHX	AR	3436	-	0,6,6	-	-	-		
81	OHX	sR	2169	-	0,6,6	-	-	-		
81	OHX	AR	3680	-	0,6,6	-	-	-		
81	OHX	A	1955	-	0,6,6	-	-	-		
81	OHX	1	3498	-	0,6,6	-	-	-		
81	OHX	AR	3404	-	0,6,6	-	-	-		
81	OHX	1	3579	-	0,6,6	-	-	-		
81	OHX	AR	3555	-	0,6,6	-	-	-		
81	OHX	sR	1935	-	0,6,6	-	-	-		
81	OHX	sR	1912	-	0,6,6	-	-	-		
81	OHX	1	3563	-	0,6,6	-	-	-		
81	OHX	1	3479	-	0,6,6	-	-	-		
81	OHX	s8	302	-	0,6,6	-	-	-		
81	OHX	AR	3418	-	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
83	SPD	1	4144	-	-	0/7/7/7	-
84	XBI	1	4157	-	-	0/8/60/60	0/3/3/3
83	SPD	AR	4206	-	-	0/7/7/7	-
84	XBI	AR	4222	-	-	2/8/60/60	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
84	AR	4222	XBI	C1-C10	-2.74	1.52	1.56
84	1	4157	XBI	C5-C10	2.03	1.59	1.56
84	1	4157	XBI	C1-C10	-2.02	1.53	1.56

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	1	4157	XBI	C1-C10-C5	-9.31	106.84	116.76
84	AR	4222	XBI	C1-C10-C5	-7.16	109.14	116.76
84	1	4157	XBI	C21-C1-C2	-4.57	100.89	109.41
84	AR	4222	XBI	C21-C1-C2	-4.17	101.63	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	1	4157	XBI	C-C1-C21	-4.04	101.99	107.87
84	AR	4222	XBI	C-C1-C21	-3.81	102.33	107.87
84	1	4157	XBI	C2-C1-C10	3.48	112.89	108.71
84	AR	4222	XBI	C2-C1-C10	3.31	112.69	108.71
84	1	4157	XBI	C-C1-C2	3.24	115.45	109.41
84	AR	4222	XBI	C-C1-C2	3.14	115.25	109.41
84	1	4157	XBI	C21-C1-C10	-3.12	102.16	111.53
84	AR	4222	XBI	C21-C1-C10	-3.07	102.33	111.53
84	1	4157	XBI	C-C1-C10	2.70	119.64	111.53
84	AR	4222	XBI	C-C1-C10	2.56	119.20	111.53

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
84	AR	4222	XBI	C6-C13-C14-O3
84	AR	4222	XBI	C6-C13-C14-C15

There are no ring outliers.

520 monomers are involved in 722 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	sR	1954	OHX	2	0
81	sR	2000	OHX	1	0
81	A	1907	OHX	2	0
81	1	3604	OHX	1	0
81	AR	4201	OHX	1	0
84	AR	4222	XBI	1	0
81	sR	1976	OHX	1	0
81	sR	1996	OHX	1	0
81	A	1901	OHX	1	0
81	1	3493	OHX	2	0
81	1	3486	OHX	1	0
81	AR	3464	OHX	2	0
81	AR	3473	OHX	1	0
81	sR	1917	OHX	1	0
81	AR	3603	OHX	3	0
81	CX	202	OHX	3	0
81	sR	1969	OHX	2	0
81	1	4117	OHX	1	0
81	1	4110	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	1	3413	OHX	1	0
81	AR	3596	OHX	1	0
81	AR	3524	OHX	1	0
81	1	4088	OHX	1	0
81	1	4101	OHX	1	0
81	1	3508	OHX	1	0
81	AR	3456	OHX	3	0
81	AR	3454	OHX	2	0
81	sR	1977	OHX	2	0
81	1	3446	OHX	1	0
81	sR	1940	OHX	2	0
81	sR	1950[B]	OHX	2	0
81	AR	3588	OHX	2	0
81	1	4089	OHX	1	0
81	AR	3586	OHX	1	0
81	AR	3469	OHX	2	0
81	1	3441	OHX	1	0
81	AR	3527	OHX	1	0
81	sR	1972	OHX	1	0
81	A	1939	OHX	1	0
81	T	201	OHX	0	1
81	A	2120	OHX	1	0
81	AR	3401	OHX	2	0
81	AR	3432	OHX	1	0
81	A	1960	OHX	2	0
81	AR	3602	OHX	1	0
81	1	3567	OHX	2	0
81	sR	1929	OHX	1	0
81	AR	3438	OHX	2	0
81	A	2108	OHX	1	0
81	A	1958	OHX	2	0
81	sR	1907	OHX	1	0
81	1	3577	OHX	1	0
81	1	4076	OHX	3	0
81	AR	3449	OHX	1	0
81	AR	3521	OHX	1	0
81	A	2139	OHX	1	0
81	DK	201	OHX	2	0
81	sR	1994	OHX	1	0
81	1	3601	OHX	1	0
81	1	3437	OHX	1	0
81	A	1942	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	AR	3478[A]	OHX	2	0
81	AR	3516	OHX	1	0
81	AR	4196	OHX	1	0
81	1	3603	OHX	1	0
81	1	4094	OHX	2	0
81	J	301	OHX	1	0
81	1	3404	OHX	3	0
81	AR	3435	OHX	1	0
81	AR	3671	OHX	4	0
81	AR	3610	OHX	1	0
81	1	4071	OHX	1	0
81	AR	3406	OHX	3	0
81	AR	3412	OHX	2	0
81	A	2127	OHX	1	0
81	1	3401	OHX	1	0
81	A	2119	OHX	1	0
81	AR	3644	OHX	1	0
81	1	3602	OHX	1	0
81	1	3438	OHX	1	0
81	AR	3425	OHX	4	0
81	sR	1927	OHX	1	0
81	1	3492	OHX	1	0
81	AR	3616	OHX	1	0
81	4	208	OHX	1	0
81	AR	3622	OHX	1	0
81	AR	3427	OHX	1	0
81	A	2126	OHX	1	0
81	AR	3641	OHX	1	0
81	sR	2018	OHX	1	0
81	1	3565	OHX	1	0
81	sR	1926	OHX	1	0
81	AR	3637	OHX	1	0
81	A	2107	OHX	1	0
81	AR	3552	OHX	1	0
81	sR	1938	OHX	1	0
81	AR	3606	OHX	1	0
81	AR	3550	OHX	1	0
81	AR	3654	OHX	1	0
81	DD	101	OHX	2	0
81	AR	3526	OHX	1	0
81	AP	502	OHX	1	0
81	AR	3478[B]	OHX	5	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	1	3426	OHX	1	0
81	sR	1989	OHX	1	0
81	1	3445	OHX	1	0
81	A	1965	OHX	1	0
81	sR	1915	OHX	1	0
81	1	3482[A]	OHX	1	0
81	sR	2019	OHX	1	0
81	A	1927	OHX	2	0
81	1	3442	OHX	1	0
81	AR	3461	OHX	1	0
81	4	207	OHX	1	0
81	1	3403	OHX	1	0
81	sR	2020	OHX	1	0
81	AR	4197	OHX	1	0
81	1	3616	OHX	1	0
81	1	3457	OHX	1	0
81	1	4098	OHX	2	0
81	AR	3668	OHX	2	0
81	sR	1990	OHX	1	0
81	1	3595	OHX	2	0
81	A	1906	OHX	2	0
81	AR	3684	OHX	1	0
81	1	4116	OHX	1	0
81	AR	3402	OHX	1	0
81	A	1950	OHX	1	0
81	AR	3565	OHX	1	0
81	1	4099	OHX	1	0
81	1	3600	OHX	2	0
81	AR	3520	OHX	1	0
81	AR	3686	OHX	1	0
81	A	1969	OHX	1	0
81	1	4142	OHX	1	0
81	1	3610	OHX	1	0
81	A	2140	OHX	1	0
81	1	3474	OHX	1	0
81	1	3596	OHX	1	0
81	CL	302[B]	OHX	1	0
81	AR	3437	OHX	1	0
81	1	3435	OHX	1	0
81	A	1972	OHX	1	0
81	AR	3507	OHX	1	0
81	sR	1936	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	1	3423	OHX	1	0
81	4	204	OHX	2	0
81	AR	3407	OHX	2	0
81	AR	3551	OHX	1	0
81	A	2114	OHX	1	0
81	A	1908	OHX	2	0
81	A	2110	OHX	1	0
81	AR	3448	OHX	2	0
81	1	4126	OHX	1	0
81	1	3459	OHX	1	0
81	AR	3451	OHX	1	0
81	AR	3506	OHX	1	0
81	1	3613	OHX	1	0
81	AR	3491	OHX	1	0
81	A	2111	OHX	2	0
83	AR	4206	SPD	2	0
81	AR	4202	OHX	2	0
81	1	3552	OHX	1	0
81	s4	301	OHX	1	0
81	1	3606	OHX	1	0
81	A	1916	OHX	1	0
81	A	1922	OHX	1	0
81	sR	2004	OHX	1	0
81	AR	3475	OHX	1	0
81	CL	301	OHX	4	0
81	AS	3505	OHX	2	0
81	1	4114	OHX	1	0
81	1	3494	OHX	1	0
81	1	4143	OHX	1	0
81	1	3558	OHX	1	0
81	AR	3612	OHX	1	0
81	AR	3583	OHX	1	0
81	AR	3485	OHX	1	0
81	AR	4199	OHX	2	0
81	AG	202	OHX	1	0
81	1	4102	OHX	1	0
81	AR	3431	OHX	1	0
81	A	2123	OHX	3	0
81	AR	3503	OHX	1	0
81	AR	3624	OHX	1	0
81	AR	3457	OHX	2	0
81	AR	3531	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	sR	2013	OHX	1	0
81	1	3554	OHX	2	0
81	AR	3416	OHX	1	0
81	1	3599	OHX	1	0
81	3	201	OHX	1	0
81	CG	301	OHX	1	0
81	1	3615	OHX	1	0
81	sR	1931	OHX	2	0
81	1	3506	OHX	1	0
81	1	3518	OHX	1	0
81	AR	3467	OHX	1	0
81	AR	3592	OHX	1	0
81	O	201	OHX	1	0
81	AC	101	OHX	1	0
81	1	3408	OHX	1	0
81	A	1956	OHX	1	0
81	A	2105	OHX	2	0
81	A	2143	OHX	1	0
81	sR	2009	OHX	2	0
81	1	3517	OHX	1	0
81	c3	201	OHX	1	0
81	4	235	OHX	1	0
81	AR	3440	OHX	1	0
81	A	2130	OHX	1	0
81	AR	3549	OHX	1	0
81	AR	3423	OHX	2	0
81	sR	1930	OHX	3	0
81	A	1973	OHX	2	0
81	AR	3426	OHX	2	0
81	AR	3444	OHX	1	0
81	1	3416	OHX	1	0
81	AR	3463	OHX	1	0
81	1	4105	OHX	4	0
81	A	1931	OHX	1	0
81	AR	3554	OHX	3	0
81	AR	3528	OHX	1	0
81	AR	3601	OHX	3	0
81	1	4091	OHX	2	0
81	A	2100	OHX	2	0
81	1	3608[A]	OHX	2	0
81	s1	301	OHX	3	0
81	sR	1987	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	AR	3417	OHX	1	0
81	sR	1971	OHX	1	0
81	sR	1974	OHX	3	0
81	c5	201	OHX	1	0
81	1	3519[A]	OHX	1	0
81	AR	3489	OHX	1	0
81	A	2129	OHX	1	0
81	AR	3648	OHX	3	0
81	AR	3408	OHX	3	0
81	1	3487	OHX	1	0
81	1	4137	OHX	1	0
81	sR	1913	OHX	3	0
81	AR	3529	OHX	1	0
81	AR	3683	OHX	1	0
81	1	3500	OHX	1	0
81	sR	1903	OHX	3	0
81	AR	3496	OHX	1	0
81	1	4120	OHX	3	0
81	AS	3501	OHX	4	0
81	AR	3502	OHX	4	0
81	1	4123	OHX	1	0
81	1	4090	OHX	5	0
81	1	3477	OHX	2	0
81	1	3432	OHX	2	0
81	AR	3636	OHX	2	0
81	A	2125	OHX	3	0
81	sR	2012	OHX	1	0
81	k	402	OHX	2	0
81	1	3412	OHX	1	0
81	AR	3462	OHX	2	0
81	e	102	OHX	1	0
81	1	3485[A]	OHX	1	0
81	DQ	502	OHX	1	0
81	1	4100	OHX	2	0
81	1	3608[B]	OHX	2	0
81	sR	1932	OHX	1	0
81	A	2134	OHX	2	0
81	AR	3562	OHX	1	0
81	1	3451	OHX	1	0
81	AR	3647	OHX	1	0
81	AR	3515	OHX	2	0
81	AR	3530	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	A	2121	OHX	1	0
81	sR	1916[B]	OHX	2	0
81	AR	3664	OHX	2	0
81	1	3503	OHX	1	0
81	AR	3523	OHX	1	0
81	1	3460	OHX	1	0
81	sR	1975	OHX	1	0
81	AR	3433	OHX	1	0
81	d0	201	OHX	1	0
81	sR	1988	OHX	1	0
81	1	4140	OHX	1	0
81	AR	4175	OHX	2	0
81	1	3566	OHX	1	0
81	1	4075	OHX	1	0
81	1	3467[A]	OHX	1	0
81	AR	3662	OHX	1	0
81	A	2116	OHX	2	0
81	AR	3681	OHX	1	0
81	1	4139	OHX	3	0
81	AR	3589	OHX	1	0
81	A	1971	OHX	2	0
81	1	4128	OHX	1	0
81	1	3547	OHX	1	0
81	A	2103	OHX	1	0
81	sR	1901	OHX	1	0
81	AR	3420	OHX	2	0
81	AR	3545	OHX	2	0
81	AR	3553	OHX	1	0
81	AR	3621	OHX	1	0
81	AT	203	OHX	1	0
81	1	4108	OHX	2	0
81	sR	2175	OHX	1	0
81	1	4122	OHX	1	0
81	AR	3618	OHX	1	0
81	AR	4200	OHX	1	0
81	sR	2001	OHX	1	0
81	sR	1950[A]	OHX	2	0
81	AR	3619	OHX	1	0
81	1	4093	OHX	1	0
81	sR	2015	OHX	1	0
81	A	2112	OHX	2	0
81	AR	3538	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	1	3524	OHX	1	0
81	1	3533	OHX	1	0
81	AR	3414	OHX	1	0
81	A	2104	OHX	1	0
81	sR	1948	OHX	1	0
81	l	402	OHX	2	0
81	1	4112	OHX	1	0
81	A	1944	OHX	1	0
81	x	209	OHX	1	0
81	1	3406	OHX	2	0
81	AR	3498	OHX	1	0
81	AR	3568	OHX	2	0
81	AR	3594	OHX	1	0
81	AR	3574	OHX	2	0
81	AR	3495	OHX	1	0
81	1	4103	OHX	1	0
81	1	4106	OHX	2	0
81	A	1967	OHX	1	0
81	A	1910	OHX	2	0
81	sR	1978	OHX	1	0
81	sR	1923	OHX	2	0
81	AR	4179	OHX	1	0
81	AR	3645	OHX	1	0
81	A	2135	OHX	1	0
81	sR	1922	OHX	2	0
81	sR	1933	OHX	1	0
81	1	3545	OHX	1	0
81	AR	3525	OHX	1	0
81	1	3448	OHX	1	0
81	AR	3639	OHX	2	0
81	AR	3534	OHX	1	0
81	sR	1958	OHX	3	0
81	AR	3476	OHX	1	0
81	sR	1949	OHX	1	0
81	AR	3556	OHX	1	0
81	sR	1955	OHX	1	0
81	1	3430	OHX	3	0
81	A	1928	OHX	1	0
81	sR	1951	OHX	1	0
81	A	1933	OHX	1	0
84	1	4157	XBI	2	0
81	sR	1957	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	3	219	OHX	1	0
81	sR	2008	OHX	1	0
81	1	3418	OHX	1	0
81	1	3529	OHX	1	0
81	A	1946	OHX	1	0
81	AR	3535	OHX	1	0
81	sR	2178	OHX	2	0
81	AR	3687[A]	OHX	1	0
81	1	3452	OHX	1	0
81	AR	3541	OHX	1	0
81	AR	3623	OHX	1	0
81	sR	1979	OHX	1	0
81	AR	3518	OHX	2	0
81	1	3440	OHX	1	0
81	3	204	OHX	1	0
81	AR	3537	OHX	1	0
81	sR	1928	OHX	1	0
81	AR	3434	OHX	1	0
81	1	3409	OHX	2	0
81	1	3581	OHX	1	0
81	AR	3472	OHX	2	0
81	sR	1965	OHX	2	0
81	1	4129	OHX	2	0
81	A	2138	OHX	3	0
81	sR	1906	OHX	1	0
81	AT	201	OHX	1	0
81	1	3527	OHX	1	0
81	1	4097	OHX	2	0
81	1	3499	OHX	1	0
81	1	3447	OHX	2	0
81	AR	3539	OHX	4	0
81	DL	102	OHX	2	0
81	1	3534	OHX	1	0
81	1	3427	OHX	1	0
81	AR	3508	OHX	2	0
81	AR	3492	OHX	1	0
81	AR	3580	OHX	2	0
81	z	203	OHX	1	0
81	1	3553	OHX	1	0
81	A	1929	OHX	1	0
81	1	3439	OHX	1	0
81	AR	3646	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	A	1937	OHX	1	0
81	sR	2014	OHX	1	0
81	4	215	OHX	1	0
81	sR	2005	OHX	1	0
81	1	3582	OHX	1	0
81	1	3562	OHX	2	0
81	AR	3474	OHX	1	0
81	AR	3667	OHX	3	0
81	AT	202	OHX	1	0
81	1	4127	OHX	1	0
81	1	3455	OHX	2	0
81	1	3468	OHX	1	0
81	AR	3411	OHX	1	0
81	AR	3452	OHX	2	0
81	AR	3511[B]	OHX	1	0
81	AR	3656	OHX	2	0
81	AR	3634	OHX	1	0
81	A	1961	OHX	1	0
81	AK	103	OHX	2	0
81	1	3516	OHX	1	0
81	1	4113	OHX	3	0
81	1	4095	OHX	3	0
81	CG	302	OHX	1	0
81	1	4135	OHX	1	0
81	AR	3687[B]	OHX	1	0
81	1	3598	OHX	1	0
81	sR	1964	OHX	2	0
81	1	4132	OHX	1	0
81	A	1949	OHX	1	0
81	sR	2022	OHX	4	0
81	1	3536	OHX	1	0
81	v	301	OHX	2	0
81	1	3557	OHX	1	0
81	1	3511	OHX	1	0
81	AR	3579	OHX	2	0
81	CE	403	OHX	1	0
81	sR	1980	OHX	1	0
81	AR	3505	OHX	1	0
81	AR	3419	OHX	2	0
81	AR	3514	OHX	2	0
81	AR	3598	OHX	1	0
81	1	3420	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	A	1947	OHX	1	0
81	A	2132	OHX	3	0
81	AR	3609	OHX	1	0
81	A	2131	OHX	1	0
81	A	2137	OHX	2	0
81	AR	3675	OHX	1	0
81	sR	1934	OHX	2	0
81	1	3590	OHX	1	0
81	1	3504	OHX	2	0
81	1	3587	OHX	2	0
81	A	1909	OHX	1	0
81	AR	3455	OHX	1	0
81	1	3501	OHX	1	0
81	AR	3630	OHX	1	0
81	1	3502	OHX	1	0
81	CS	201	OHX	1	0
81	1	3433	OHX	1	0
81	A	1917	OHX	1	0
81	A	2124	OHX	2	0
81	sR	1995	OHX	3	0
81	1	3605	OHX	2	0
81	A	1970	OHX	1	0
81	sR	1920	OHX	1	0
81	AR	3483	OHX	2	0
81	sR	1959	OHX	1	0
81	1	3434	OHX	1	0
81	sR	1924	OHX	1	0
81	AR	3486	OHX	1	0
81	AR	3688	OHX	1	0
81	sR	2002	OHX	1	0
81	sR	1960	OHX	1	0
81	1	3612	OHX	3	0
81	AR	3559	OHX	2	0
81	AR	3546	OHX	1	0
83	1	4144	SPD	3	0
81	AR	4205	OHX	1	0
81	1	4092	OHX	1	0
81	AR	3633	OHX	1	0
81	sR	1981	OHX	1	0
81	AR	3676	OHX	1	0
81	AR	3446	OHX	2	0
81	AR	3428	OHX	1	0

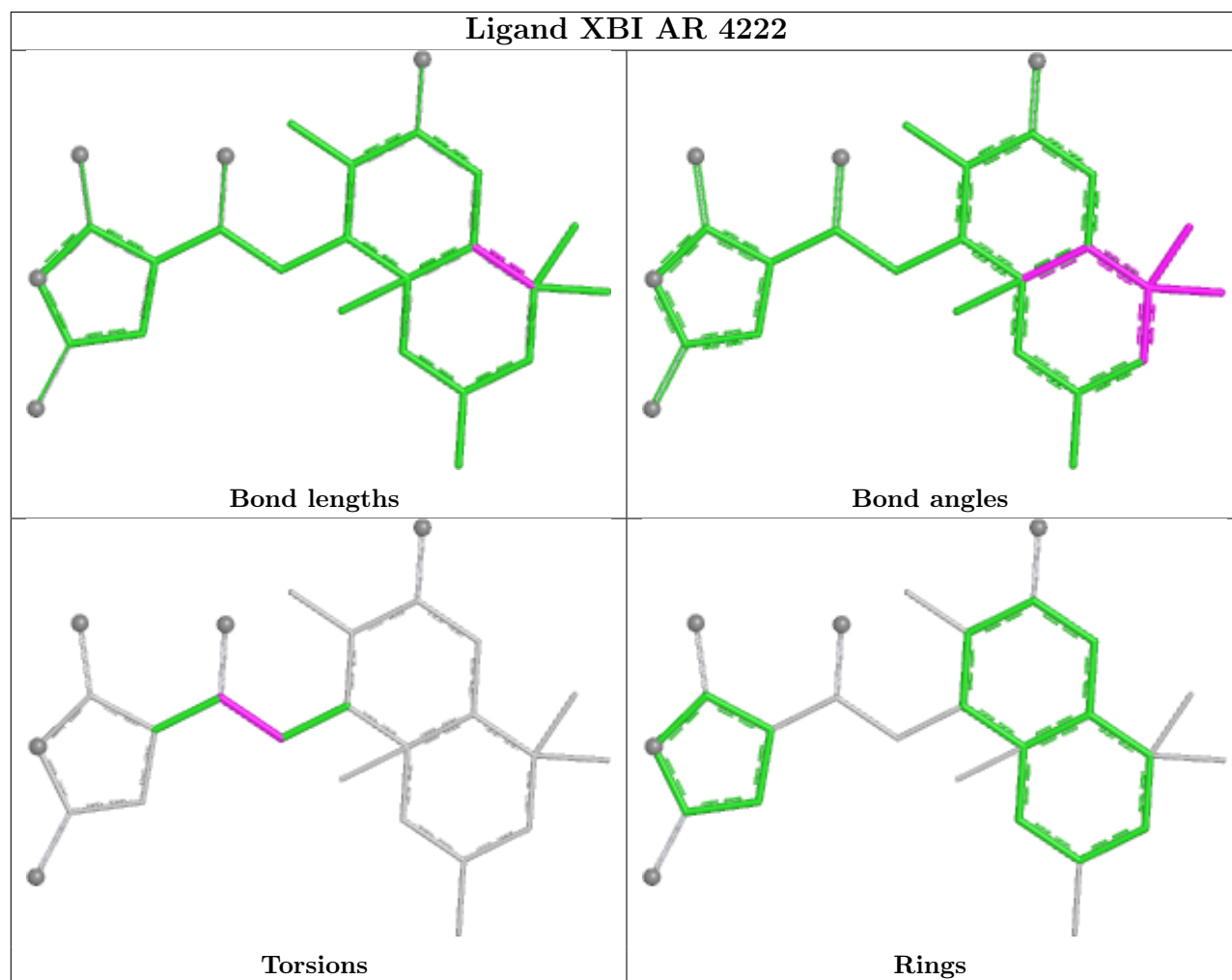
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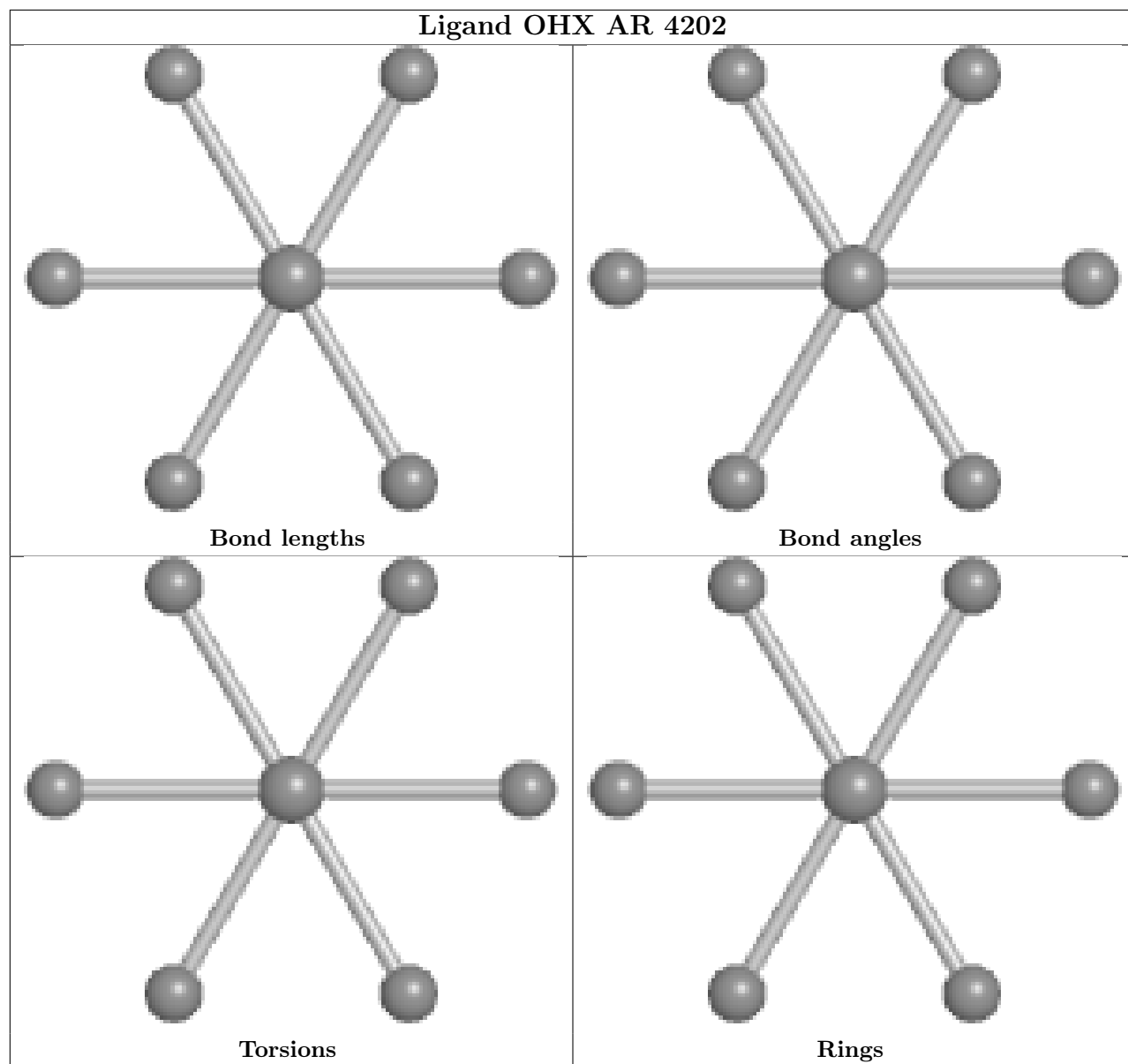
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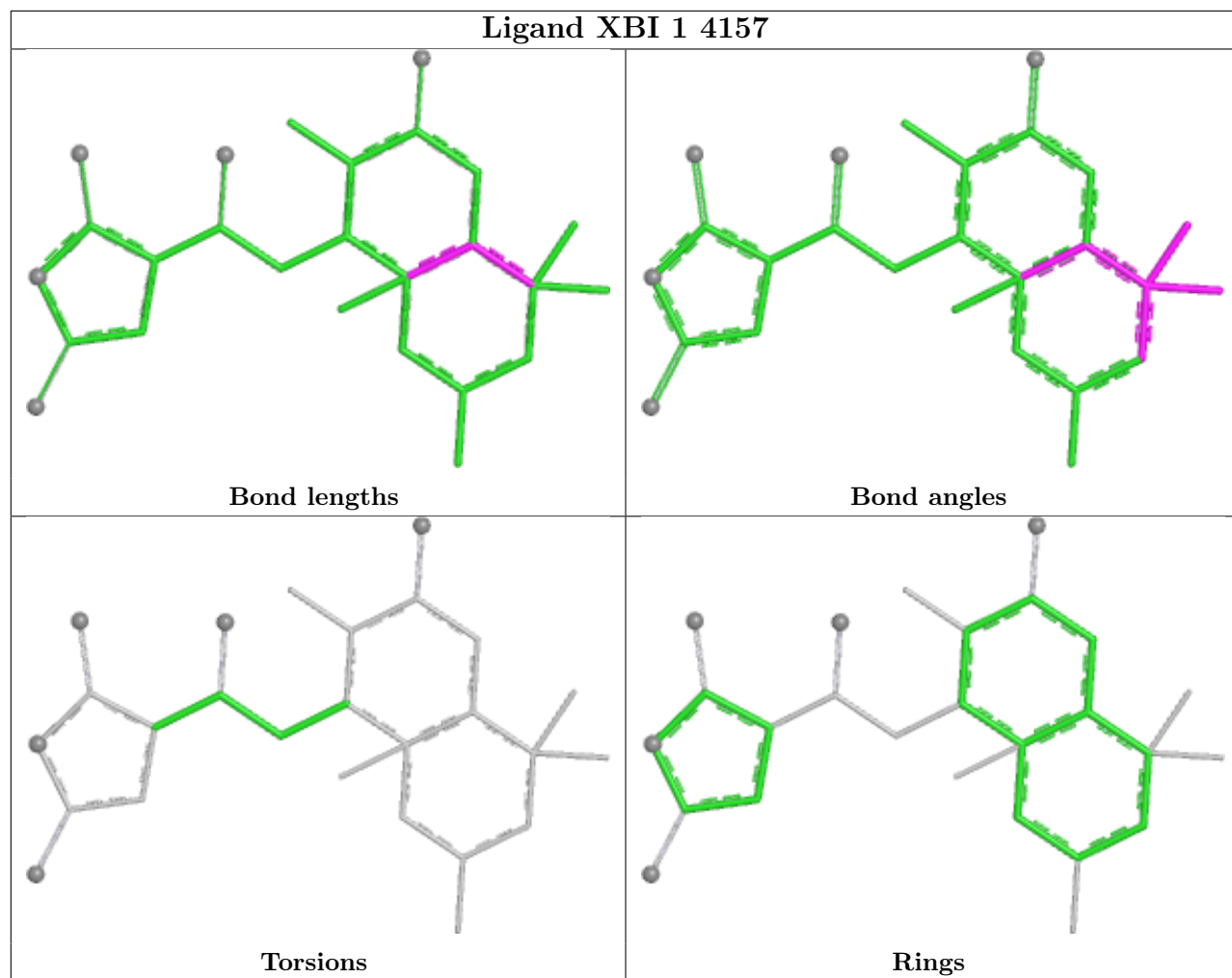
Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	A	2117	OHX	1	0
81	1	3470	OHX	1	0
81	1	4068	OHX	2	0
81	AR	3604	OHX	1	0
81	AR	3519	OHX	1	0
81	A	1918	OHX	1	0
81	A	2106	OHX	1	0
81	1	3539	OHX	1	0
81	1	3419	OHX	1	0
81	A	1930	OHX	1	0
81	1	4107	OHX	2	0
81	AR	3410	OHX	2	0
81	1	3609	OHX	1	0
81	AR	3547	OHX	1	0
81	sR	2025	OHX	2	0
81	1	3543	OHX	1	0
81	sR	1967	OHX	1	0
81	sR	1910	OHX	2	0
81	1	4134	OHX	1	0
81	AS	3506	OHX	1	0
81	AR	3677	OHX	1	0
81	A	1951	OHX	1	0
81	1	4130	OHX	1	0
81	AT	212	OHX	1	0
81	sR	1946	OHX	1	0
81	sR	1986	OHX	1	0
81	1	3537	OHX	1	0
81	1	3509	OHX	1	0
81	CK	201	OHX	1	1
81	1	3544	OHX	1	0
81	sR	2007	OHX	3	0
81	AR	3436	OHX	1	0
81	sR	2169	OHX	1	0
81	AR	3404	OHX	1	0
81	AR	3555	OHX	1	0
81	sR	1935	OHX	1	0
81	sR	1912	OHX	1	0
81	s8	302	OHX	1	0
81	AR	3418	OHX	3	0

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

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	1	3
1	AR	1
58	c0	1
47	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1	1955:U	O3'	2093:A	P	26.04
1	AR	1955:U	O3'	2093:A	P	23.44
1	1	2445:A	O3'	2501:U	P	15.18
1	1	440:A	O3'	494:G	P	12.11
1	c0	84:GLU	C	87:HIS	N	8.58
1	A	1716:C	O3'	1717:G	P	4.65

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1	3149/3149 (100%)	-0.01	35 (1%) 78 71	42, 64, 172, 261	0
1	AR	3130/3149 (99%)	-0.01	46 (1%) 72 64	42, 61, 152, 267	0
2	3	121/121 (100%)	-0.27	0 100 100	48, 75, 93, 135	0
2	AS	121/121 (100%)	-0.21	2 (1%) 69 61	46, 63, 79, 140	0
3	4	158/158 (100%)	-0.11	0 100 100	49, 65, 122, 208	0
3	AT	158/158 (100%)	-0.01	4 (2%) 58 48	50, 69, 137, 200	0
4	CD	252/254 (99%)	0.79	22 (8%) 16 13	43, 65, 89, 158	0
4	j	252/254 (99%)	0.77	19 (7%) 20 16	44, 65, 88, 138	0
5	CE	386/387 (99%)	0.40	12 (3%) 51 42	42, 56, 82, 140	0
5	k	386/387 (99%)	0.63	21 (5%) 31 24	45, 65, 93, 152	0
6	CF	361/362 (99%)	0.53	13 (3%) 46 38	41, 64, 92, 129	0
6	l	361/362 (99%)	0.56	27 (7%) 20 16	42, 61, 94, 143	0
7	CG	292/297 (98%)	0.52	19 (6%) 25 20	50, 69, 111, 165	0
7	m	296/297 (99%)	0.68	22 (7%) 20 17	55, 83, 133, 174	0
8	CH	156/176 (88%)	0.60	12 (7%) 19 16	48, 66, 103, 152	0
8	n	156/176 (88%)	0.40	2 (1%) 75 67	48, 64, 99, 136	0
9	CI	222/244 (90%)	0.40	6 (2%) 56 47	45, 56, 100, 175	0
9	o	222/244 (90%)	0.37	10 (4%) 38 30	46, 58, 103, 167	0
10	CJ	226/256 (88%)	1.23	42 (18%) 3 3	66, 95, 135, 157	0
10	p	233/256 (91%)	0.80	13 (5%) 30 23	59, 85, 144, 180	0
11	CK	191/191 (100%)	0.37	7 (3%) 45 37	48, 63, 97, 172	0
11	q	191/191 (100%)	0.69	16 (8%) 17 14	52, 75, 108, 169	0
12	CL	211/221 (95%)	0.74	20 (9%) 14 11	45, 67, 104, 151	0
12	r	211/221 (95%)	0.67	18 (8%) 16 14	47, 66, 119, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	CM	169/174 (97%)	0.71	13 (7%)	19	16	52, 73, 102, 134	0
13	s	169/174 (97%)	0.72	10 (5%)	28	22	64, 88, 116, 159	0
14	CN	193/199 (96%)	0.74	17 (8%)	15	13	44, 74, 128, 176	0
14	t	193/199 (96%)	0.64	18 (9%)	14	12	44, 70, 120, 170	0
15	CO	136/138 (98%)	0.50	12 (8%)	15	13	49, 62, 93, 136	0
15	u	136/138 (98%)	0.46	8 (5%)	28	22	51, 67, 97, 143	0
16	CP	203/204 (99%)	0.87	15 (7%)	20	17	44, 68, 86, 99	0
16	v	203/204 (99%)	0.64	6 (2%)	52	43	43, 62, 78, 94	0
17	CQ	197/199 (98%)	0.37	11 (5%)	30	23	42, 51, 91, 145	0
17	w	197/199 (98%)	0.38	7 (3%)	46	38	45, 57, 88, 129	0
18	CR	155/184 (84%)	0.34	4 (2%)	57	48	42, 56, 75, 147	0
18	x	183/184 (99%)	0.53	12 (6%)	24	19	44, 59, 139, 174	0
19	CS	185/186 (99%)	0.40	6 (3%)	50	41	46, 64, 85, 105	0
19	y	185/186 (99%)	0.67	19 (10%)	12	10	46, 60, 77, 107	0
20	CT	188/189 (99%)	0.87	25 (13%)	7	6	51, 76, 151, 201	0
20	z	177/189 (93%)	0.81	14 (7%)	18	15	59, 80, 137, 166	0
21	0	172/172 (100%)	0.51	12 (6%)	22	18	49, 63, 94, 160	0
21	CU	172/172 (100%)	0.28	4 (2%)	61	52	46, 58, 84, 124	0
22	2	159/160 (99%)	0.94	21 (13%)	7	6	46, 65, 114, 157	0
22	CV	159/160 (99%)	0.77	19 (11%)	9	7	45, 59, 113, 181	0
23	5	100/121 (82%)	0.98	10 (10%)	12	10	82, 114, 148, 169	0
23	CW	100/121 (82%)	1.15	20 (20%)	3	2	76, 103, 152, 166	0
24	6	136/137 (99%)	0.80	15 (11%)	10	9	46, 65, 101, 133	0
24	CX	136/137 (99%)	0.53	9 (6%)	24	19	43, 56, 89, 145	0
25	7	65/155 (41%)	0.82	8 (12%)	8	7	58, 71, 99, 156	0
25	CY	111/155 (71%)	0.83	10 (9%)	15	13	48, 77, 130, 146	0
26	8	121/142 (85%)	0.67	13 (10%)	11	9	56, 75, 108, 147	0
26	CZ	117/142 (82%)	0.70	9 (7%)	19	16	55, 79, 104, 131	0
27	9	126/127 (99%)	0.49	3 (2%)	59	50	47, 68, 96, 124	0
27	DA	124/127 (97%)	0.69	8 (6%)	25	20	48, 72, 97, 150	0
28	AA	135/136 (99%)	0.76	9 (6%)	24	19	77, 100, 132, 176	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
28	DB	135/136 (99%)	1.10	13 (9%)	13 11	76, 107, 148, 162	0
29	AB	148/149 (99%)	0.59	7 (4%)	36 28	42, 61, 93, 134	0
29	DC	148/149 (99%)	0.50	8 (5%)	31 24	42, 62, 95, 133	0
30	AC	58/59 (98%)	0.73	7 (12%)	8 7	45, 69, 128, 143	0
30	DD	58/59 (98%)	0.82	10 (17%)	4 3	44, 66, 110, 141	0
31	AD	97/105 (92%)	0.54	3 (3%)	51 42	73, 98, 134, 147	0
31	DE	97/105 (92%)	0.78	6 (6%)	26 21	74, 95, 132, 156	0
32	AE	109/113 (96%)	1.00	15 (13%)	6 5	54, 78, 137, 166	0
32	DF	109/113 (96%)	0.52	4 (3%)	45 37	48, 66, 144, 175	0
33	AF	127/130 (97%)	0.50	5 (3%)	43 35	43, 54, 74, 140	0
33	DG	127/130 (97%)	0.40	5 (3%)	43 35	42, 57, 82, 125	0
34	AG	106/107 (99%)	0.36	4 (3%)	44 36	45, 55, 73, 89	0
34	DH	106/107 (99%)	0.53	8 (7%)	20 16	44, 54, 82, 124	0
35	AH	111/121 (91%)	1.05	14 (12%)	8 6	53, 79, 123, 171	0
35	DI	112/121 (92%)	1.18	26 (23%)	2 2	54, 78, 140, 163	0
36	AI	119/120 (99%)	0.71	9 (7%)	20 16	51, 75, 99, 126	0
36	DJ	119/120 (99%)	0.74	5 (4%)	40 32	59, 81, 109, 126	0
37	AJ	96/100 (96%)	0.74	5 (5%)	33 26	59, 77, 112, 127	0
37	DK	99/100 (99%)	1.08	13 (13%)	7 6	67, 85, 141, 167	0
38	AK	87/88 (98%)	0.59	7 (8%)	18 15	44, 57, 76, 153	0
38	DL	86/88 (97%)	0.58	4 (4%)	36 28	44, 59, 93, 117	0
39	AL	77/78 (98%)	0.89	5 (6%)	25 20	68, 104, 135, 159	0
39	DM	77/78 (98%)	0.95	8 (10%)	11 10	73, 102, 142, 150	0
40	AM	50/51 (98%)	0.94	9 (18%)	3 3	46, 66, 81, 101	0
40	DN	50/51 (98%)	0.78	5 (10%)	12 10	49, 67, 84, 93	0
41	AN	52/128 (40%)	0.48	4 (7%)	19 16	52, 68, 98, 136	0
41	DO	52/128 (40%)	0.28	3 (5%)	29 22	45, 55, 82, 113	0
42	AO	25/25 (100%)	1.15	3 (12%)	9 7	58, 72, 87, 96	0
42	DP	25/25 (100%)	1.05	6 (24%)	2 1	52, 65, 82, 99	0
43	AP	105/106 (99%)	0.74	15 (14%)	6 5	44, 65, 105, 154	0
43	DQ	105/106 (99%)	0.63	10 (9%)	14 11	45, 64, 99, 146	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	AQ	91/92 (98%)	0.72	5 (5%) 30 24	51, 72, 104, 130	0
44	DR	91/92 (98%)	0.69	9 (9%) 13 11	45, 71, 101, 128	0
45	i	142/273 (52%)	1.52	43 (30%) 1 1	54, 108, 165, 189	0
45	sM	63/273 (23%)	1.21	10 (15%) 5 4	49, 113, 154, 172	0
46	p0	126/312 (40%)	1.26	30 (23%) 2 2	83, 121, 151, 164	0
47	A	1741/1800 (96%)	0.25	39 (2%) 62 53	60, 94, 198, 266	0
47	sR	1783/1800 (99%)	0.19	44 (2%) 58 48	48, 86, 204, 258	0
48	B	206/252 (81%)	1.41	53 (25%) 1 1	94, 123, 157, 175	0
48	s0	206/252 (81%)	1.07	28 (13%) 7 5	71, 104, 140, 166	0
49	C	214/255 (83%)	1.41	50 (23%) 2 2	88, 139, 176, 208	0
49	s1	216/255 (84%)	0.69	16 (7%) 20 17	62, 92, 127, 173	0
50	D	217/254 (85%)	1.18	35 (16%) 4 4	74, 100, 139, 161	0
50	s2	217/254 (85%)	1.15	34 (15%) 5 4	60, 86, 125, 150	0
51	E	223/240 (92%)	1.10	37 (16%) 4 3	76, 105, 151, 190	0
51	s3	223/240 (92%)	1.34	48 (21%) 2 2	79, 118, 157, 179	0
52	F	260/261 (99%)	1.24	47 (18%) 3 3	71, 99, 135, 156	0
52	s4	260/261 (99%)	0.92	22 (8%) 16 14	59, 86, 117, 165	0
53	G	206/225 (91%)	1.19	37 (17%) 3 3	85, 127, 162, 184	0
53	s5	198/225 (88%)	1.45	47 (23%) 2 2	79, 117, 155, 187	0
54	H	226/236 (95%)	1.70	73 (32%) 1 1	62, 106, 150, 167	0
54	s6	218/236 (92%)	1.16	42 (19%) 3 2	59, 89, 132, 167	0
55	I	184/190 (96%)	1.11	21 (11%) 10 8	81, 127, 165, 181	0
55	s7	186/190 (97%)	1.23	28 (15%) 5 4	67, 115, 162, 187	0
56	J	188/200 (94%)	1.06	26 (13%) 6 5	61, 85, 125, 161	0
56	s8	188/200 (94%)	1.47	46 (24%) 2 1	54, 82, 137, 160	0
57	K	185/197 (93%)	1.21	34 (18%) 3 3	76, 107, 162, 208	0
57	s9	185/197 (93%)	1.05	28 (15%) 5 4	63, 90, 137, 169	0
58	L	96/105 (91%)	1.48	32 (33%) 1 1	75, 117, 166, 171	0
58	c0	96/105 (91%)	1.64	34 (35%) 1 1	100, 135, 173, 187	0
59	M	142/156 (91%)	0.86	15 (10%) 11 9	62, 82, 122, 162	0
59	c1	146/156 (93%)	1.06	21 (14%) 6 5	53, 79, 143, 178	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å²)	Q<0.9	
60	N	124/143 (86%)	1.32	28 (22%)	2	2	117, 157, 185, 202	0
61	O	150/151 (99%)	0.88	13 (8%)	16	13	64, 102, 130, 150	0
61	c3	150/151 (99%)	0.68	7 (4%)	36	28	59, 88, 115, 143	0
62	P	127/138 (92%)	1.60	29 (22%)	2	2	68, 135, 165, 189	0
62	c4	127/138 (92%)	0.99	17 (13%)	7	5	58, 96, 127, 165	0
63	Q	124/142 (87%)	1.36	30 (24%)	2	1	78, 102, 158, 195	0
63	c5	135/142 (95%)	1.41	32 (23%)	2	2	84, 116, 163, 181	0
64	R	141/143 (98%)	1.54	41 (29%)	1	1	80, 113, 139, 169	0
64	c6	142/143 (99%)	1.82	43 (30%)	1	1	66, 112, 155, 176	0
65	S	120/136 (88%)	1.28	25 (20%)	2	2	77, 124, 162, 183	0
65	c7	117/136 (86%)	1.09	18 (15%)	5	4	74, 110, 153, 198	0
66	T	145/146 (99%)	0.99	19 (13%)	7	6	67, 113, 158, 173	0
66	c8	145/146 (99%)	1.11	23 (15%)	5	4	79, 110, 154, 173	0
67	U	143/144 (99%)	1.50	40 (27%)	1	1	80, 114, 147, 173	0
67	c9	143/144 (99%)	0.91	13 (9%)	15	12	72, 105, 138, 181	0
68	V	96/121 (79%)	2.15	45 (46%)	0	0	71, 116, 155, 164	0
68	d0	89/121 (73%)	1.57	26 (29%)	1	1	67, 116, 163, 173	0
69	W	87/87 (100%)	1.12	13 (14%)	5	4	83, 113, 146, 175	0
69	d1	87/87 (100%)	1.01	9 (10%)	12	10	66, 93, 123, 155	0
70	X	129/130 (99%)	1.00	17 (13%)	7	6	71, 96, 116, 132	0
70	d2	129/130 (99%)	0.85	6 (4%)	36	28	56, 76, 94, 109	0
71	Y	144/145 (99%)	1.30	29 (20%)	3	2	60, 80, 115, 143	0
71	d3	144/145 (99%)	0.98	20 (13%)	6	5	51, 68, 89, 135	0
72	Z	134/135 (99%)	1.11	20 (14%)	5	4	69, 113, 151, 174	0
72	d4	134/135 (99%)	1.02	22 (16%)	4	3	62, 93, 135, 177	0
73	a	70/108 (64%)	1.24	12 (17%)	4	3	106, 141, 171, 181	0
73	d5	69/108 (63%)	1.21	8 (11%)	9	8	96, 133, 168, 187	0
74	b	97/119 (81%)	1.41	21 (21%)	2	2	78, 108, 171, 186	0
74	d6	97/119 (81%)	0.91	15 (15%)	5	4	54, 76, 134, 150	0
75	c	81/82 (98%)	1.05	11 (13%)	7	5	81, 114, 161, 183	0
75	d7	81/82 (98%)	0.83	7 (8%)	16	13	59, 96, 159, 171	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
76	d	63/67 (94%)	1.20	6 (9%) 14 11	89, 140, 163, 180	0
76	d8	63/67 (94%)	1.53	15 (23%) 2 2	98, 133, 167, 192	0
77	d9	53/56 (94%)	1.39	12 (22%) 2 2	78, 93, 137, 161	0
77	e	53/56 (94%)	0.93	6 (11%) 10 9	71, 90, 110, 163	0
78	e0	62/63 (98%)	1.09	9 (14%) 6 4	60, 97, 155, 171	0
78	f	60/63 (95%)	1.01	8 (13%) 7 6	67, 112, 157, 176	0
79	e1	51/152 (33%)	1.96	23 (45%) 0 0	121, 163, 186, 196	0
79	g	71/152 (46%)	1.44	19 (26%) 1 1	97, 150, 181, 218	0
80	Rb	318/319 (99%)	1.33	75 (23%) 2 2	91, 134, 165, 194	0
80	h	318/319 (99%)	1.44	75 (23%) 2 2	84, 123, 162, 199	0
All	All	32652/34933 (93%)	0.64	2942 (9%) 15 13	41, 80, 154, 267	0

All (2942) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
12	r	112	GLN	9.2
64	c6	141	SER	8.9
45	i	88	ARG	8.7
50	s2	92	ALA	8.5
54	H	79	LYS	8.5
67	U	92	LYS	8.2
64	c6	142	TYR	8.2
54	H	80	ASN	8.0
17	CQ	3	VAL	8.0
80	h	79	TYR	7.8
51	E	148	LYS	7.6
64	R	40	GLU	7.5
71	Y	3	LYS	7.3
10	CJ	121	SER	7.2
68	V	31	VAL	7.0
10	CJ	107	GLU	7.0
58	c0	64	TYR	7.0
64	R	132	LYS	6.8
54	H	153	VAL	6.7
45	i	89	ARG	6.7
51	s3	142	LEU	6.7
68	V	84	MET	6.6
58	c0	27	PHE	6.5

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Mol	Chain	Res	Type	RSRZ
51	s3	151	LYS	6.5
12	CL	112	GLN	6.4
35	AH	2	ALA	6.4
54	H	89	ASP	6.4
64	c6	139	GLN	6.4
78	e0	2	ALA	6.4
54	H	157	VAL	6.3
52	F	142	HIS	6.3
63	Q	101	ALA	6.3
45	i	85	SER	6.2
64	c6	140	LYS	6.1
54	H	156	PHE	6.1
56	s8	100	ALA	6.1
64	c6	138	PHE	6.1
58	c0	25	LYS	6.0
62	c4	48	VAL	6.0
54	H	78	THR	6.0
53	G	36	ALA	5.9
80	h	78	ALA	5.9
68	V	19	ILE	5.9
45	sM	84	LYS	5.9
68	V	82	TYR	5.9
12	r	113	GLN	5.8
52	F	23	LEU	5.8
57	K	5	PRO	5.8
56	s8	61	GLU	5.8
52	F	25	GLY	5.8
54	H	147	LEU	5.8
18	CR	2	ALA	5.8
54	s6	68	LEU	5.8
64	c6	132	LYS	5.7
55	I	98	ILE	5.7
53	s5	149	VAL	5.7
22	CV	86	GLU	5.6
50	s2	208	GLU	5.6
20	z	2	ALA	5.6
58	L	24	LYS	5.6
22	2	124	VAL	5.6
33	AF	2	ALA	5.6
51	s3	144	ALA	5.6
45	i	92	ASP	5.5
54	H	77	LEU	5.5

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Mol	Chain	Res	Type	RSRZ
80	h	136	ILE	5.5
50	D	164	SER	5.4
57	K	159	ALA	5.4
35	DI	16	ARG	5.4
4	j	13	GLY	5.4
50	s2	90	THR	5.4
51	s3	176	LEU	5.4
68	d0	77	LYS	5.3
52	F	186	GLY	5.3
10	CJ	113	ALA	5.3
68	V	67	THR	5.3
4	CD	250	GLN	5.3
21	0	1	MET	5.3
57	s9	8	TYR	5.3
21	CU	2	ALA	5.3
64	R	141	SER	5.3
64	c6	143	ARG	5.3
12	r	114	GLY	5.2
59	c1	4	GLU	5.2
24	6	2	SER	5.2
58	c0	24	LYS	5.2
80	Rb	121	MET	5.1
43	AP	30	ALA	5.1
56	s8	45	SER	5.1
56	J	22	ARG	5.1
24	CX	3	GLY	5.1
56	J	21	PHE	5.1
12	r	221	ALA	5.1
43	AP	29	LYS	5.1
50	D	84	LYS	5.1
45	sM	83	LYS	5.0
50	D	86	VAL	5.0
4	j	253	GLN	5.0
4	CD	246	LEU	5.0
64	c6	44	LEU	5.0
49	C	142	PHE	5.0
56	s8	40	ALA	5.0
54	s6	88	ARG	5.0
17	w	3	VAL	5.0
62	P	15	GLY	5.0
50	D	85	PRO	5.0
74	b	3	LYS	5.0

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Mol	Chain	Res	Type	RSRZ
6	l	50	TYR	5.0
77	d9	7	TRP	4.9
54	s6	216	LEU	4.9
45	i	87	THR	4.9
1	AR	1103	A	4.9
28	DB	75	VAL	4.9
63	Q	11	VAL	4.9
59	c1	144	ALA	4.8
48	B	158	VAL	4.8
37	DK	9	ILE	4.8
57	K	2	PRO	4.8
24	6	53	SER	4.8
74	b	84	VAL	4.8
58	c0	26	ASP	4.8
1	1	2874	G	4.8
54	H	76	LEU	4.8
73	d5	75	LEU	4.8
62	c4	125	SER	4.8
16	CP	181	ASN	4.8
7	CG	288	ALA	4.8
10	CJ	114	ALA	4.8
12	CL	11	TYR	4.8
50	s2	87	GLN	4.7
79	g	88	PRO	4.7
68	V	64	LYS	4.7
20	z	85	ARG	4.7
48	B	127	ARG	4.7
15	u	9	ALA	4.7
51	s3	148	LYS	4.7
59	c1	29	LYS	4.7
50	D	163	GLY	4.7
35	DI	101	VAL	4.7
48	B	134	LYS	4.7
50	s2	84	LYS	4.7
18	x	184	ALA	4.7
20	z	72	GLU	4.7
68	V	85	ARG	4.7
57	K	161	THR	4.6
52	F	4	GLY	4.6
56	s8	60	ILE	4.6
58	L	96	ASN	4.6
80	h	81	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
59	M	2	SER	4.6
64	R	118	ILE	4.6
72	Z	35	VAL	4.6
62	P	89	THR	4.6
79	g	87	THR	4.6
80	h	99	THR	4.6
58	L	40	LEU	4.6
62	P	39	ILE	4.6
57	s9	148	VAL	4.6
50	s2	85	PRO	4.6
64	c6	130	GLY	4.6
53	s5	184	PHE	4.5
54	s6	147	LEU	4.5
56	s8	62	THR	4.5
54	s6	162	VAL	4.5
10	CJ	106	LYS	4.5
22	CV	126	VAL	4.5
55	s7	123	ASP	4.5
68	d0	82	TYR	4.5
51	s3	19	ALA	4.5
22	2	126	VAL	4.5
55	s7	109	VAL	4.5
57	s9	33	GLU	4.5
4	CD	253	GLN	4.5
35	DI	33	GLN	4.5
14	t	62	THR	4.4
72	d4	50	ALA	4.4
51	s3	180	GLY	4.4
62	P	37	GLU	4.4
1	AR	2873	U	4.4
71	Y	103	LEU	4.4
73	a	75	LEU	4.4
56	s8	21	PHE	4.4
8	CH	8	LYS	4.4
80	h	43	ILE	4.4
21	0	2	ALA	4.4
22	2	74	VAL	4.4
42	DP	11	ARG	4.4
53	G	41	LYS	4.4
14	CN	46	ILE	4.4
41	DO	77	ILE	4.4
12	CL	195	ALA	4.4

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Mol	Chain	Res	Type	RSRZ
45	i	97	THR	4.4
49	C	46	THR	4.4
56	s8	99	ALA	4.4
14	t	63	VAL	4.4
78	e0	49	LEU	4.4
15	CO	9	ALA	4.3
51	s3	150	MET	4.3
9	o	158	LYS	4.3
54	s6	79	LYS	4.3
21	CU	1	MET	4.3
56	s8	46	VAL	4.3
68	V	62	VAL	4.3
43	AP	94	GLY	4.3
15	u	10	SER	4.3
24	CX	2	SER	4.3
63	Q	126	VAL	4.3
35	AH	20	ILE	4.3
79	e1	102	VAL	4.3
48	s0	162	CYS	4.3
20	CT	131	ALA	4.3
26	8	30	ALA	4.3
45	i	83	LYS	4.3
54	H	154	ARG	4.3
39	AL	78	LEU	4.3
66	c8	3	LEU	4.3
73	a	69	LEU	4.3
59	M	3	THR	4.2
53	s5	69	PHE	4.2
53	s5	187	ILE	4.2
45	i	104	LYS	4.2
64	c6	90	VAL	4.2
22	2	62	GLY	4.2
79	g	86	THR	4.2
4	CD	15	ILE	4.2
80	Rb	54	PHE	4.2
36	AI	75	TYR	4.2
54	s6	169	TYR	4.2
56	s8	44	HIS	4.2
80	h	8	VAL	4.2
61	O	53	LEU	4.2
4	CD	252	THR	4.2
45	i	91	THR	4.2

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Mol	Chain	Res	Type	RSRZ
54	H	145	PHE	4.2
73	d5	50	ILE	4.2
61	O	9	LYS	4.2
49	C	120	LEU	4.2
63	c5	4	ALA	4.2
64	c6	117	LEU	4.2
71	Y	2	GLY	4.2
67	U	38	LYS	4.2
33	DG	26	HIS	4.2
57	s9	3	ARG	4.2
80	h	167	VAL	4.2
29	AB	66	ALA	4.2
50	s2	91	ARG	4.1
54	H	88	ARG	4.1
74	b	86	VAL	4.1
5	k	155	ALA	4.1
68	V	80	GLU	4.1
54	H	158	ILE	4.1
80	h	115	ILE	4.1
49	C	95	ASN	4.1
63	Q	82	ASN	4.1
51	s3	87	TYR	4.1
17	CQ	183	ALA	4.1
54	H	175	ILE	4.1
23	CW	14	THR	4.1
67	U	104	VAL	4.1
10	CJ	117	ALA	4.1
67	U	58	ALA	4.1
72	d4	127	LYS	4.1
80	h	121	MET	4.1
45	i	93	ARG	4.1
67	U	132	LEU	4.1
68	V	117	VAL	4.1
58	c0	65	TYR	4.1
29	AB	116	GLY	4.1
4	CD	190	ARG	4.1
65	S	25	THR	4.0
17	CQ	182	ASN	4.0
53	s5	79	ASN	4.0
65	S	14	LYS	4.0
59	M	120	GLY	4.0
57	s9	104	PHE	4.0

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Mol	Chain	Res	Type	RSRZ
58	L	27	PHE	4.0
65	S	71	PHE	4.0
12	CL	220	GLN	4.0
58	L	62	GLN	4.0
58	L	90	THR	4.0
78	e0	5	HIS	4.0
75	d7	53	ALA	4.0
17	w	80	PHE	4.0
72	d4	18	LEU	4.0
23	CW	54	VAL	4.0
48	B	189	VAL	4.0
30	DD	25	LYS	4.0
12	r	102	MET	4.0
54	H	90	GLY	4.0
55	I	145	GLY	4.0
47	sR	673	A	4.0
65	c7	95	ARG	4.0
69	W	62	ARG	4.0
4	CD	186	PHE	4.0
15	CO	10	SER	4.0
65	S	73	LEU	4.0
35	AH	21	LYS	4.0
45	i	163	THR	4.0
53	G	28	PRO	4.0
54	H	155	ASP	4.0
41	DO	78	ILE	4.0
47	sR	1634	C	4.0
51	s3	146	ARG	4.0
46	p0	86	PHE	4.0
14	t	77	LEU	4.0
38	AK	87	SER	4.0
57	s9	48	GLN	4.0
63	Q	53	PRO	4.0
63	c5	83	MET	4.0
48	s0	19	ALA	3.9
46	p0	54	GLY	3.9
71	Y	129	GLY	3.9
22	2	77	ASN	3.9
10	CJ	109	LEU	3.9
60	N	61	VAL	3.9
64	c6	4	VAL	3.9
64	R	21	HIS	3.9

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Mol	Chain	Res	Type	RSRZ
67	U	90	PRO	3.9
53	s5	68	ILE	3.9
59	c1	3	THR	3.9
24	6	52	ALA	3.9
60	N	27	ALA	3.9
70	X	17	ALA	3.9
80	h	253	ALA	3.9
71	Y	44	GLY	3.9
69	W	64	GLU	3.9
68	d0	51	VAL	3.9
75	d7	2	VAL	3.9
57	s9	5	PRO	3.9
79	e1	122	SER	3.9
50	D	96	THR	3.9
56	s8	47	ARG	3.9
80	h	96	THR	3.9
53	G	152	GLY	3.9
58	L	89	GLY	3.9
32	AE	5	LYS	3.9
69	d1	11	LEU	3.9
80	Rb	32	LEU	3.9
51	s3	177	MET	3.9
50	s2	121	VAL	3.9
5	k	347	SER	3.9
20	z	71	ARG	3.9
24	6	32	ARG	3.9
38	AK	88	ALA	3.9
71	Y	145	SER	3.9
10	CJ	110	THR	3.9
45	sM	82	THR	3.9
80	h	72	THR	3.9
64	R	133	GLY	3.9
59	M	32	LYS	3.9
50	D	144	TRP	3.9
54	s6	177	ARG	3.9
46	p0	107	ALA	3.9
49	C	60	ALA	3.9
71	d3	145	SER	3.9
9	CI	163	LEU	3.8
79	e1	121	CYS	3.8
62	c4	124	ASP	3.8
23	CW	56	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
63	c5	34	VAL	3.8
58	c0	62	GLN	3.8
40	AM	51	ILE	3.8
44	AQ	51	ALA	3.8
58	L	60	SER	3.8
64	R	15	SER	3.8
57	K	60	LEU	3.8
60	N	59	LEU	3.8
45	i	167	GLU	3.8
1	1	2971	A	3.8
18	x	182	ILE	3.8
51	s3	117	ARG	3.8
48	B	28	ASN	3.8
68	V	108	ILE	3.8
72	Z	34	ASN	3.8
59	c1	5	LEU	3.8
30	DD	34	GLY	3.8
50	s2	93	GLY	3.8
51	s3	152	PHE	3.8
52	s4	26	CYS	3.8
13	s	10	ARG	3.8
25	CY	63	ILE	3.8
71	d3	24	TRP	3.8
13	CM	7	ASN	3.8
71	Y	28	ASN	3.8
76	d8	26	THR	3.8
45	i	168	ALA	3.8
79	e1	148	TYR	3.8
65	S	2	GLY	3.8
52	F	184	THR	3.8
59	M	78	THR	3.8
43	DQ	34	SER	3.7
25	7	63	ILE	3.7
55	s7	111	LYS	3.7
61	O	109	LYS	3.7
50	D	162	CYS	3.7
1	AR	1201	C	3.7
29	DC	78	LEU	3.7
43	DQ	104	LEU	3.7
46	p0	70	LEU	3.7
47	A	1657	U	3.7
54	H	169	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
54	s6	156	PHE	3.7
63	c5	12	PHE	3.7
54	H	36	VAL	3.7
63	c5	126	VAL	3.7
74	b	75	VAL	3.7
53	G	177	ILE	3.7
35	AH	61	GLN	3.7
50	s2	89	GLN	3.7
52	s4	171	ASP	3.7
71	d3	21	ASN	3.7
1	AR	3276	G	3.7
67	c9	92	LYS	3.7
4	j	250	GLN	3.7
75	c	51	GLN	3.7
36	DJ	120	ALA	3.7
62	c4	51	ASP	3.7
58	c0	84	GLU	3.7
11	CK	138	THR	3.7
63	c5	105	VAL	3.7
68	V	86	ILE	3.7
13	CM	8	PRO	3.7
36	AI	120	ALA	3.7
6	l	106	TRP	3.7
30	DD	27	TYR	3.7
45	i	86	ASN	3.7
64	c6	46	PHE	3.7
65	c7	97	ASN	3.7
50	D	161	LYS	3.7
10	CJ	104	GLU	3.7
49	C	140	ILE	3.7
69	d1	39	VAL	3.7
72	Z	100	VAL	3.7
5	CE	178	LEU	3.6
37	AJ	11	LEU	3.6
60	N	62	LEU	3.6
58	L	30	ALA	3.6
58	c0	3	MET	3.6
47	sR	1199	G	3.6
49	C	63	GLY	3.6
64	c6	92	TYR	3.6
28	DB	12	VAL	3.6
49	C	48	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
50	s2	53	ILE	3.6
68	d0	117	VAL	3.6
80	Rb	115	ILE	3.6
57	K	160	PRO	3.6
64	R	117	LEU	3.6
50	s2	94	GLN	3.6
4	CD	249	SER	3.6
6	l	74	ILE	3.6
65	c7	69	ILE	3.6
53	G	70	VAL	3.6
65	S	110	VAL	3.6
79	g	84	VAL	3.6
31	AD	14	LEU	3.6
64	c6	28	LEU	3.6
66	T	86	LEU	3.6
12	r	218	ALA	3.6
15	CO	138	ALA	3.6
74	b	19	LYS	3.6
11	q	166	ARG	3.6
36	AI	8	GLU	3.6
51	s3	184	ILE	3.6
50	s2	86	VAL	3.6
77	d9	6	VAL	3.6
30	AC	26	THR	3.6
31	DE	41	LEU	3.6
49	s1	217	LEU	3.6
12	CL	101	LYS	3.6
56	J	198	ALA	3.6
73	a	36	ALA	3.6
51	E	146	ARG	3.6
74	b	85	ARG	3.6
45	i	165	GLU	3.6
47	sR	1192	C	3.6
60	N	88	LEU	3.6
62	P	91	THR	3.6
53	s5	28	PRO	3.6
9	CI	158	LYS	3.5
45	i	105	LYS	3.5
50	s2	88	LYS	3.5
36	DJ	2	ALA	3.5
51	s3	147	ALA	3.5
55	s7	108	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
80	h	27	ALA	3.5
55	I	8	ILE	3.5
76	d8	13	ILE	3.5
68	d0	83	GLU	3.5
80	h	34	LEU	3.5
8	CH	4	GLN	3.5
12	CL	113	GLN	3.5
20	CT	159	ALA	3.5
48	B	162	CYS	3.5
23	5	9	GLN	3.5
50	s2	118	ALA	3.5
51	E	147	ALA	3.5
62	c4	50	ALA	3.5
80	h	102	ARG	3.5
45	i	9	GLY	3.5
55	s7	98	ILE	3.5
59	M	7	VAL	3.5
62	P	34	SER	3.5
1	AR	437	G	3.5
73	a	65	LEU	3.5
58	L	91	TYR	3.5
58	c0	98	ASN	3.5
64	R	70	THR	3.5
62	c4	135	ARG	3.5
39	AL	5	ILE	3.5
56	s8	65	PHE	3.5
58	c0	94	ILE	3.5
79	g	150	VAL	3.5
80	h	6	VAL	3.5
4	CD	14	SER	3.5
5	k	14	LEU	3.5
6	l	182	LEU	3.5
10	CJ	122	LYS	3.5
45	i	115	LYS	3.5
56	s8	200	LYS	3.5
45	i	96	ARG	3.5
10	CJ	102	ALA	3.5
12	r	195	ALA	3.5
51	E	145	ALA	3.5
62	P	40	ALA	3.5
79	e1	110	ALA	3.5
80	Rb	27	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
43	DQ	106	PHE	3.5
80	h	71	CYS	3.5
48	s0	166	GLY	3.5
51	E	41	VAL	3.5
68	d0	114	VAL	3.5
43	AP	93	LEU	3.5
58	c0	2	LEU	3.5
55	s7	66	SER	3.5
53	s5	102	ARG	3.5
48	B	23	HIS	3.5
68	d0	78	THR	3.5
24	CX	4	ASN	3.5
71	d3	27	ASN	3.5
76	d	63	ALA	3.5
50	s2	199	GLN	3.4
64	c6	60	PHE	3.4
75	c	62	ILE	3.4
56	s8	199	LYS	3.4
62	P	13	VAL	3.4
65	S	124	VAL	3.4
68	V	37	VAL	3.4
7	m	51	LEU	3.4
68	d0	64	LYS	3.4
80	h	73	LEU	3.4
77	d9	40	ARG	3.4
45	i	90	ALA	3.4
45	i	158	ALA	3.4
64	c6	79	TYR	3.4
57	K	134	ILE	3.4
73	d5	71	ILE	3.4
33	AF	17	PHE	3.4
54	s6	144	PHE	3.4
46	p0	43	LYS	3.4
12	CL	53	VAL	3.4
49	C	110	LEU	3.4
64	R	38	LEU	3.4
78	e0	47	VAL	3.4
56	J	179	CYS	3.4
63	Q	125	PRO	3.4
26	8	50	ALA	3.4
53	s5	74	ALA	3.4
10	CJ	123	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
41	AN	77	ILE	3.4
77	e	20	GLN	3.4
38	AK	10	LYS	3.4
42	DP	25	LYS	3.4
20	z	89	LEU	3.4
48	B	166	GLY	3.4
54	H	146	GLY	3.4
54	s6	178	LEU	3.4
63	c5	11	VAL	3.4
54	H	91	GLU	3.4
54	H	142	ARG	3.4
49	C	156	ALA	3.4
67	U	94	ILE	3.4
63	Q	80	MET	3.4
56	s8	52	ASN	3.4
46	p0	27	VAL	3.4
49	s1	54	LEU	3.4
79	e1	132	LEU	3.4
43	DQ	18	ARG	3.4
54	H	21	GLU	3.4
62	P	71	CYS	3.4
48	B	168	HIS	3.4
66	c8	137	HIS	3.4
5	k	25	ILE	3.4
64	R	127	LYS	3.4
64	c6	43	ILE	3.4
69	W	61	SER	3.4
23	CW	100	THR	3.4
65	S	8	THR	3.4
80	h	45	TRP	3.4
23	5	89	LEU	3.3
51	E	86	LEU	3.3
56	s8	58	LEU	3.3
11	q	178	GLY	3.3
66	c8	145	ARG	3.3
51	s3	220	PRO	3.3
16	v	40	ALA	3.3
37	DK	96	ALA	3.3
52	s4	134	LYS	3.3
10	CJ	195	SER	3.3
63	c5	136	SER	3.3
80	h	12	THR	3.3

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Mol	Chain	Res	Type	RSRZ
49	C	218	LEU	3.3
49	C	228	LEU	3.3
53	s5	165	LEU	3.3
54	H	75	LEU	3.3
75	d7	24	LEU	3.3
80	h	7	LEU	3.3
80	h	9	LEU	3.3
7	CG	135	VAL	3.3
54	H	67	VAL	3.3
64	R	92	TYR	3.3
66	T	5	VAL	3.3
24	CX	5	GLY	3.3
40	AM	46	ARG	3.3
47	A	1426	C	3.3
1	AR	2874	G	3.3
45	i	84	LYS	3.3
72	Z	117	LYS	3.3
33	DG	38	ILE	3.3
74	b	44	ILE	3.3
80	h	162	ALA	3.3
80	Rb	188	ILE	3.3
56	s8	179	CYS	3.3
48	B	107	PHE	3.3
50	D	215	PHE	3.3
63	Q	104	GLN	3.3
26	CZ	99	VAL	3.3
47	A	320	U	3.3
72	d4	35	VAL	3.3
10	CJ	100	GLU	3.3
26	8	45	LYS	3.3
29	AB	77	LYS	3.3
54	H	149	LYS	3.3
55	s7	102	PRO	3.3
6	CF	280	ILE	3.3
14	CN	93	ILE	3.3
49	C	113	MET	3.3
14	CN	135	ALA	3.3
49	C	141	ALA	3.3
68	V	91	ILE	3.3
74	b	56	ALA	3.3
35	DI	7	PHE	3.3
51	E	24	PHE	3.3

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Mol	Chain	Res	Type	RSRZ
57	s9	47	PHE	3.3
7	m	63	GLN	3.3
52	F	187	ARG	3.3
56	s8	31	ARG	3.3
45	sM	85	SER	3.3
54	s6	103	GLY	3.3
47	sR	1473	U	3.3
79	g	105	TYR	3.3
10	CJ	112	GLU	3.3
11	q	11	GLU	3.3
19	y	57	ILE	3.3
58	c0	23	ALA	3.3
43	AP	104	LEU	3.3
66	c8	17	LEU	3.3
68	d0	34	LEU	3.3
5	k	226	PHE	3.3
16	CP	75	VAL	3.3
52	F	26	CYS	3.3
24	6	3	GLY	3.3
49	C	93	GLY	3.3
71	d3	44	GLY	3.3
80	Rb	138	GLY	3.3
13	CM	157	GLU	3.2
22	CV	21	LYS	3.2
53	s5	61	TYR	3.2
67	c9	55	TYR	3.2
13	s	132	ASN	3.2
55	s7	91	ILE	3.2
62	P	115	ILE	3.2
23	CW	106	ALA	3.2
44	DR	51	ALA	3.2
73	d5	38	HIS	3.2
66	T	17	LEU	3.2
12	CL	10	ARG	3.2
64	R	123	ARG	3.2
52	F	76	VAL	3.2
76	d	44	VAL	3.2
80	h	56	VAL	3.2
51	E	18	TYR	3.2
51	s3	139	SER	3.2
58	c0	63	TYR	3.2
79	g	146	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	1	494	G	3.2
47	sR	1201	G	3.2
26	CZ	40	LEU	3.2
32	DF	4	LEU	3.2
71	d3	34	LEU	3.2
51	s3	143	ARG	3.2
57	K	158	PHE	3.2
51	E	206	VAL	3.2
62	P	79	VAL	3.2
30	DD	22	LYS	3.2
80	h	161	LYS	3.2
64	R	17	THR	3.2
80	Rb	97	GLY	3.2
41	AN	78	ILE	3.2
74	b	83	ILE	3.2
49	C	181	LEU	3.2
51	s3	145	ALA	3.2
70	d2	26	LEU	3.2
72	d4	132	ARG	3.2
80	Rb	61	PHE	3.2
39	DM	25	VAL	3.2
14	CN	5	LYS	3.2
51	s3	141	LYS	3.2
71	Y	91	GLY	3.2
1	AR	2093	A	3.2
54	H	222	GLU	3.2
53	s5	30	PRO	3.2
58	L	88	PRO	3.2
65	c7	65	PRO	3.2
53	G	96	SER	3.2
80	Rb	120	SER	3.2
31	DE	97	ASP	3.2
29	AB	78	LEU	3.2
6	l	51	ALA	3.2
7	m	134	ALA	3.2
48	B	102	PHE	3.2
53	G	84	LYS	3.2
54	s6	187	LYS	3.2
62	c4	47	LYS	3.2
63	c5	9	LYS	3.2
46	p0	47	GLY	3.2
56	s8	51	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
19	CS	99	THR	3.2
37	DK	2	THR	3.2
52	F	78	THR	3.2
63	Q	28	MET	3.2
64	R	115	THR	3.2
67	c9	39	THR	3.2
58	L	94	GLU	3.2
54	H	208	TYR	3.1
64	R	142	TYR	3.1
55	s7	103	SER	3.1
68	V	26	LEU	3.1
14	CN	166	ALA	3.1
32	DF	85	ALA	3.1
53	s5	36	ALA	3.1
71	Y	27	ASN	3.1
36	DJ	83	LYS	3.1
52	F	22	LYS	3.1
80	h	137	LYS	3.1
14	CN	63	VAL	3.1
48	B	30	GLN	3.1
69	W	63	GLY	3.1
48	B	154	GLU	3.1
52	F	194	THR	3.1
21	0	129	ILE	3.1
68	d0	65	ILE	3.1
40	AM	45	ARG	3.1
76	d8	54	LEU	3.1
79	g	103	LEU	3.1
40	DN	37	TYR	3.1
16	v	192	LYS	3.1
20	z	131	ALA	3.1
30	AC	22	LYS	3.1
32	AE	61	LYS	3.1
50	s2	124	ALA	3.1
52	F	133	LYS	3.1
53	G	71	ALA	3.1
60	N	119	SER	3.1
64	c6	86	ALA	3.1
1	1	1103	A	3.1
7	CG	20	PHE	3.1
54	s6	80	ASN	3.1
58	L	39	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
71	Y	10	ASN	3.1
7	m	144	VAL	3.1
20	CT	55	VAL	3.1
67	U	61	VAL	3.1
68	V	51	VAL	3.1
73	a	66	VAL	3.1
47	A	261	U	3.1
35	DI	20	ILE	3.1
50	s2	96	THR	3.1
50	s2	117	THR	3.1
7	CG	273	ARG	3.1
20	CT	185	LEU	3.1
49	s1	110	LEU	3.1
54	H	92	ARG	3.1
54	H	178	LEU	3.1
74	d6	10	ARG	3.1
19	y	159	LYS	3.1
45	i	153	LYS	3.1
6	l	194	TYR	3.1
14	CN	193	ALA	3.1
46	p0	106	ALA	3.1
58	L	41	TYR	3.1
67	c9	50	ALA	3.1
70	X	108	ALA	3.1
8	CH	2	SER	3.1
32	AE	112	ASP	3.1
34	AG	59	VAL	3.1
46	p0	274	SER	3.1
48	B	128	SER	3.1
48	B	129	ASP	3.1
52	F	79	ASP	3.1
64	c6	2	SER	3.1
67	c9	37	VAL	3.1
72	d4	26	ASP	3.1
6	l	304	GLN	3.1
67	c9	48	GLN	3.1
71	Y	4	GLY	3.1
80	h	55	GLY	3.1
54	H	73	ILE	3.1
50	D	240	LEU	3.1
51	E	142	LEU	3.1
51	s3	43	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
52	F	12	LEU	3.1
65	S	26	LEU	3.1
80	h	30	PRO	3.1
80	Rb	252	LEU	3.1
71	Y	5	LYS	3.1
64	R	119	ALA	3.1
80	Rb	2	ALA	3.1
12	r	11	TYR	3.1
23	5	27	VAL	3.1
64	c6	97	VAL	3.1
66	T	22	VAL	3.1
6	l	292	SER	3.1
46	p0	275	SER	3.1
19	y	156	GLY	3.1
35	AH	78	GLY	3.1
66	T	28	ILE	3.1
12	CL	56	GLU	3.1
48	B	57	LEU	3.1
51	s3	113	LEU	3.1
67	U	44	GLU	3.1
45	sM	81	THR	3.1
25	CY	58	HIS	3.0
58	c0	87	HIS	3.0
15	CO	129	TYR	3.0
58	c0	22	VAL	3.0
69	W	53	TYR	3.0
5	CE	363	SER	3.0
22	CV	18	ASP	3.0
40	AM	43	ASN	3.0
45	i	95	SER	3.0
54	H	19	ASP	3.0
4	j	228	GLY	3.0
7	m	156	GLY	3.0
26	CZ	142	ILE	3.0
53	G	40	ILE	3.0
57	s9	6	ARG	3.0
60	N	89	ILE	3.0
4	CD	251	LYS	3.0
20	CT	184	LEU	3.0
33	AF	126	LEU	3.0
57	s9	10	LYS	3.0
1	AR	2535	A	3.0

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Mol	Chain	Res	Type	RSRZ
56	s8	48	THR	3.0
63	c5	50	THR	3.0
4	CD	26	ALA	3.0
38	AK	86	ALA	3.0
62	P	104	ALA	3.0
39	DM	43	PHE	3.0
49	C	24	PHE	3.0
64	c6	21	HIS	3.0
67	U	34	VAL	3.0
77	d9	23	VAL	3.0
80	h	104	VAL	3.0
22	2	65	TYR	3.0
23	CW	108	TYR	3.0
79	g	85	TYR	3.0
54	H	152	ASP	3.0
61	O	13	SER	3.0
5	k	4	ARG	3.0
7	m	273	ARG	3.0
22	2	96	ILE	3.0
35	DI	31	ARG	3.0
48	s0	67	ILE	3.0
49	C	121	ILE	3.0
50	s2	141	ARG	3.0
54	s6	171	LYS	3.0
56	s8	135	LYS	3.0
59	c1	129	ARG	3.0
63	Q	52	LYS	3.0
63	c5	8	LYS	3.0
64	R	143	ARG	3.0
25	7	54	LEU	3.0
65	S	109	LEU	3.0
62	P	96	PRO	3.0
64	c6	5	PRO	3.0
68	d0	67	THR	3.0
47	sR	1600	A	3.0
54	H	40	ALA	3.0
80	h	75	ALA	3.0
20	CT	58	HIS	3.0
22	CV	80	VAL	3.0
48	B	155	PHE	3.0
60	N	121	VAL	3.0
68	d0	31	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
71	d3	18	HIS	3.0
78	e0	45	VAL	3.0
54	H	84	TYR	3.0
5	CE	19	ARG	3.0
16	CP	24	ARG	3.0
35	AH	16	ARG	3.0
53	G	92	ARG	3.0
53	s5	190	ILE	3.0
54	H	25	ARG	3.0
69	d1	87	ARG	3.0
80	Rb	123	ILE	3.0
11	q	52	LEU	3.0
27	9	7	ASP	3.0
48	s0	164	ASN	3.0
68	V	34	LEU	3.0
71	Y	41	SER	3.0
80	h	35	SER	3.0
55	I	4	PRO	3.0
1	1	2205	U	3.0
10	CJ	103	ALA	3.0
22	2	125	ALA	3.0
51	s3	114	ALA	3.0
64	c6	119	ALA	3.0
20	z	93	VAL	3.0
46	p0	26	PHE	3.0
80	h	186	PHE	3.0
47	A	173	A	3.0
48	B	54	TRP	3.0
11	CK	3	TYR	3.0
21	0	166	LYS	3.0
25	CY	124	LYS	3.0
30	AC	59	LYS	3.0
53	s5	106	LYS	3.0
54	H	74	LYS	3.0
78	f	3	LYS	3.0
17	CQ	68	ARG	3.0
45	i	161	ILE	3.0
57	K	132	ARG	3.0
20	CT	164	LEU	3.0
51	s3	11	LEU	3.0
54	H	216	LEU	3.0
64	R	44	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
1	AR	494	G	3.0
1	AR	3080	G	3.0
5	CE	24	SER	3.0
56	J	88	ASN	3.0
59	c1	2	SER	3.0
8	CH	129	GLU	3.0
10	CJ	118	GLU	3.0
47	sR	172	C	3.0
68	V	94	GLU	3.0
22	CV	101	CYS	3.0
7	CG	38	THR	3.0
12	CL	221	ALA	3.0
38	AK	58	THR	3.0
53	s5	146	THR	3.0
71	d3	25	ALA	3.0
72	Z	33	ALA	3.0
49	C	114	VAL	3.0
51	s3	175	VAL	3.0
4	j	28	LYS	2.9
20	CT	82	LYS	2.9
58	L	25	LYS	2.9
78	e0	36	LYS	2.9
68	d0	106	ILE	2.9
13	s	167	TYR	2.9
55	s7	153	LEU	2.9
62	c4	137	LEU	2.9
66	T	18	LEU	2.9
66	c8	61	LEU	2.9
10	p	158	ASP	2.9
27	9	127	GLU	2.9
48	B	153	SER	2.9
68	V	83	GLU	2.9
47	sR	1601	G	2.9
12	r	2	ALA	2.9
14	t	148	ALA	2.9
13	CM	171	VAL	2.9
32	AE	67	VAL	2.9
35	DI	22	VAL	2.9
46	p0	88	PHE	2.9
63	Q	50	THR	2.9
49	C	116	LYS	2.9
55	I	101	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	1	1356	U	2.9
23	5	11	ILE	2.9
52	F	244	ILE	2.9
64	c6	85	ILE	2.9
67	U	108	LEU	2.9
16	CP	78	GLY	2.9
1	1	440	A	2.9
28	DB	104	PRO	2.9
20	CT	130	ASN	2.9
74	d6	11	ASN	2.9
20	CT	59	SER	2.9
75	c	48	SER	2.9
49	C	57	ALA	2.9
54	H	81	VAL	2.9
15	CO	3	THR	2.9
33	AF	26	HIS	2.9
44	AQ	11	THR	2.9
59	M	115	PHE	2.9
63	c5	137	ARG	2.9
1	AR	1954	G	2.9
47	A	677	G	2.9
36	AI	92	LEU	2.9
47	A	1115	U	2.9
48	s0	24	LEU	2.9
49	C	96	LEU	2.9
53	G	25	LEU	2.9
64	c6	57	LEU	2.9
65	c7	98	GLY	2.9
58	L	64	TYR	2.9
67	U	80	TYR	2.9
80	Rb	79	TYR	2.9
57	s9	2	PRO	2.9
22	2	86	GLU	2.9
63	c5	6	ASN	2.9
10	CJ	120	LYS	2.9
13	CM	98	ALA	2.9
20	z	70	LYS	2.9
35	AH	19	LYS	2.9
44	DR	7	LYS	2.9
51	s3	219	ALA	2.9
62	c4	92	LYS	2.9
64	c6	24	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
66	T	83	ALA	2.9
71	d3	110	LYS	2.9
72	Z	134	ALA	2.9
74	b	47	ALA	2.9
79	e1	146	SER	2.9
80	h	279	ALA	2.9
80	Rb	137	LYS	2.9
80	Rb	254	ALA	2.9
39	AL	43	PHE	2.9
63	Q	12	PHE	2.9
26	8	38	LEU	2.9
63	Q	36	LEU	2.9
1	1	3079	U	2.9
1	AR	3064	U	2.9
6	l	79	GLY	2.9
50	s2	75	GLY	2.9
53	G	151	GLY	2.9
67	c9	112	GLY	2.9
47	sR	1150	G	2.9
80	Rb	250	TYR	2.9
10	CJ	105	LYS	2.9
41	AN	128	LYS	2.9
53	G	44	ASN	2.9
79	e1	123	ASN	2.9
10	p	256	ALA	2.9
28	DB	13	VAL	2.9
32	AE	101	ALA	2.9
45	i	157	ASP	2.9
48	s0	189	VAL	2.9
52	F	208	VAL	2.9
56	s8	198	ALA	2.9
63	c5	5	VAL	2.9
64	R	3	ALA	2.9
66	c8	5	VAL	2.9
67	U	37	VAL	2.9
73	a	40	VAL	2.9
39	AL	11	PHE	2.9
77	d9	43	PHE	2.9
35	DI	34	HIS	2.9
50	D	97	ARG	2.9
52	F	39	ARG	2.9
25	CY	83	THR	2.9

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Mol	Chain	Res	Type	RSRZ
8	CH	130	ILE	2.9
14	t	46	ILE	2.9
53	s5	175	LEU	2.9
66	c8	18	LEU	2.9
77	d9	31	ILE	2.9
45	i	98	GLY	2.8
77	d9	29	GLY	2.8
13	CM	9	MET	2.8
6	CF	345	GLU	2.8
14	CN	194	GLU	2.8
47	sR	1465	C	2.8
16	v	189	LYS	2.8
16	CP	72	LYS	2.8
74	b	13	LYS	2.8
78	f	40	TYR	2.8
1	AR	1560	G	2.8
47	sR	651	G	2.8
51	E	137	VAL	2.8
61	O	7	ALA	2.8
77	e	6	VAL	2.8
79	e1	130	VAL	2.8
44	DR	85	ARG	2.8
50	s2	97	ARG	2.8
80	Rb	80	ALA	2.8
52	F	8	HIS	2.8
57	K	162	SER	2.8
12	r	200	LEU	2.8
35	AH	6	THR	2.8
49	s1	207	LEU	2.8
52	s4	9	LEU	2.8
53	G	68	ILE	2.8
55	I	105	THR	2.8
64	R	37	THR	2.8
47	A	1425	A	2.8
62	P	113	GLY	2.8
10	p	123	GLN	2.8
21	0	168	PRO	2.8
20	CT	53	LYS	2.8
71	d3	142	LYS	2.8
77	d9	16	LYS	2.8
9	CI	23	ALA	2.8
18	x	161	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
19	y	39	ARG	2.8
40	AM	39	ALA	2.8
51	E	16	VAL	2.8
55	s7	79	ARG	2.8
64	R	20	ALA	2.8
28	DB	136	PHE	2.8
49	s1	223	PHE	2.8
80	h	61	PHE	2.8
10	CJ	160	ILE	2.8
22	CV	85	LEU	2.8
23	5	38	ILE	2.8
49	C	32	ILE	2.8
52	F	143	ASP	2.8
53	s5	58	LEU	2.8
61	O	11	ILE	2.8
73	a	71	ILE	2.8
75	c	73	LEU	2.8
23	CW	55	THR	2.8
57	K	166	GLY	2.8
72	d4	122	GLY	2.8
15	CO	137	LYS	2.8
80	Rb	283	LYS	2.8
27	DA	120	GLN	2.8
72	d4	30	PRO	2.8
75	c	38	PRO	2.8
49	C	117	TRP	2.8
55	s7	184	GLU	2.8
80	h	14	GLU	2.8
57	K	6	ARG	2.8
60	N	30	VAL	2.8
64	c6	49	TYR	2.8
79	e1	140	TYR	2.8
12	r	217	PHE	2.8
40	DN	2	ALA	2.8
45	i	151	ALA	2.8
78	f	2	ALA	2.8
5	k	328	ILE	2.8
4	CD	7	ASN	2.8
50	D	225	LEU	2.8
55	s7	8	ILE	2.8
61	c3	71	ILE	2.8
63	c5	15	HIS	2.8

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Mol	Chain	Res	Type	RSRZ
64	c6	62	ASN	2.8
1	1	1201	C	2.8
47	A	1637	C	2.8
57	s9	89	ASP	2.8
80	Rb	51	ASP	2.8
24	6	42	SER	2.8
53	s5	94	THR	2.8
54	H	163	THR	2.8
62	c4	49	LYS	2.8
29	DC	23	GLY	2.8
48	B	44	GLY	2.8
48	B	131	GLN	2.8
55	s7	74	GLN	2.8
60	N	68	GLU	2.8
14	CN	174	ARG	2.8
57	K	3	ARG	2.8
44	AQ	71	VAL	2.8
71	Y	96	VAL	2.8
80	h	157	VAL	2.8
49	C	133	TYR	2.8
57	K	8	TYR	2.8
47	sR	1595	U	2.8
54	H	212	LEU	2.8
64	R	52	LEU	2.8
52	F	57	ASN	2.8
58	c0	81	ASN	2.8
71	Y	89	ASN	2.8
5	k	346	THR	2.8
11	CK	1	MET	2.8
22	CV	79	MET	2.8
37	DK	25	LYS	2.8
57	K	61	THR	2.8
62	P	93	THR	2.8
63	Q	78	THR	2.8
68	d0	107	THR	2.8
14	t	4	SER	2.8
47	sR	1599	C	2.8
56	s8	30	GLY	2.8
66	c8	9	GLY	2.8
74	b	2	PRO	2.8
4	j	47	GLN	2.7
6	l	54	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
50	D	91	ARG	2.7
35	DI	5	VAL	2.7
64	R	39	VAL	2.7
67	U	114	VAL	2.7
69	W	51	VAL	2.7
1	AR	3077	A	2.7
7	CG	3	PHE	2.7
20	CT	2	ALA	2.7
45	i	110	TRP	2.7
23	CW	15	PHE	2.7
65	S	15	ALA	2.7
80	Rb	293	ALA	2.7
51	E	158	ILE	2.7
51	E	217	ILE	2.7
60	N	78	LEU	2.7
63	c5	22	LEU	2.7
68	V	41	ILE	2.7
58	L	26	ASP	2.7
76	d8	5	THR	2.7
4	CD	13	GLY	2.7
30	AC	24	PRO	2.7
48	B	104	PRO	2.7
71	Y	42	PRO	2.7
48	s0	127	ARG	2.7
56	s8	22	ARG	2.7
64	c6	83	GLN	2.7
61	O	38	VAL	2.7
10	CJ	237	ILE	2.7
13	CM	12	LEU	2.7
35	DI	2	ALA	2.7
40	AM	2	ALA	2.7
48	s0	18	LEU	2.7
51	s3	182	LEU	2.7
52	s4	14	ALA	2.7
52	s4	261	LEU	2.7
65	S	24	LEU	2.7
69	W	11	LEU	2.7
74	d6	56	ALA	2.7
54	s6	175	ILE	2.7
70	X	34	ILE	2.7
80	Rb	302	PHE	2.7
1	1	551	A	2.7

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Mol	Chain	Res	Type	RSRZ
27	DA	87	LYS	2.7
47	sR	1594	G	2.7
59	c1	37	ASN	2.7
17	w	184	THR	2.7
23	5	98	THR	2.7
55	I	14	THR	2.7
80	Rb	168	THR	2.7
54	H	20	ASP	2.7
67	U	35	ASP	2.7
72	d4	59	GLY	2.7
72	d4	135	ASP	2.7
80	Rb	259	GLY	2.7
26	CZ	33	ARG	2.7
48	B	35	PRO	2.7
53	s5	92	ARG	2.7
55	s7	4	PRO	2.7
67	U	2	PRO	2.7
74	b	98	PRO	2.7
13	CM	6	GLN	2.7
24	CX	7	GLN	2.7
54	s6	190	GLN	2.7
57	s9	139	GLN	2.7
65	c7	105	GLN	2.7
7	m	133	GLU	2.7
22	2	40	VAL	2.7
24	6	137	VAL	2.7
63	c5	86	VAL	2.7
16	CP	133	ILE	2.7
22	2	75	ILE	2.7
48	B	172	LEU	2.7
50	s2	98	PHE	2.7
56	s8	38	ILE	2.7
62	P	137	LEU	2.7
72	Z	60	PHE	2.7
80	h	32	LEU	2.7
80	Rb	122	ILE	2.7
13	CM	85	LYS	2.7
80	Rb	313	TRP	2.7
48	s0	46	HIS	2.7
1	1	2875	U	2.7
12	r	188	GLY	2.7
13	s	155	THR	2.7

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Mol	Chain	Res	Type	RSRZ
18	x	126	ARG	2.7
18	x	128	ARG	2.7
22	CV	102	ARG	2.7
25	CY	47	ARG	2.7
49	s1	126	THR	2.7
52	F	243	GLY	2.7
68	d0	29	THR	2.7
62	P	32	ASP	2.7
74	d6	98	PRO	2.7
47	sR	1464	G	2.7
15	CO	131	VAL	2.7
45	i	154	VAL	2.7
49	s1	20	VAL	2.7
51	E	73	VAL	2.7
62	P	30	VAL	2.7
67	U	6	VAL	2.7
80	Rb	104	VAL	2.7
6	CF	15	ALA	2.7
37	AJ	32	ALA	2.7
48	s0	81	PHE	2.7
48	s0	170	ILE	2.7
53	G	42	LEU	2.7
64	c6	54	LEU	2.7
80	h	33	LEU	2.7
56	s8	27	PHE	2.7
56	s8	57	ALA	2.7
59	c1	115	PHE	2.7
64	R	138	PHE	2.7
80	Rb	303	ALA	2.7
14	t	5	LYS	2.7
35	DI	19	LYS	2.7
46	p0	23	LYS	2.7
58	L	85	HIS	2.7
64	c6	68	ARG	2.7
4	j	25	GLY	2.7
4	CD	194	ASN	2.7
58	c0	92	THR	2.7
62	P	119	THR	2.7
64	c6	115	THR	2.7
68	V	81	THR	2.7
68	V	96	PRO	2.7
78	f	48	THR	2.7

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Mol	Chain	Res	Type	RSRZ
1	AR	2875	U	2.7
80	Rb	50	ASP	2.7
7	m	297	GLN	2.7
10	p	79	GLN	2.7
9	CI	26	VAL	2.7
32	AE	20	LEU	2.7
43	AP	35	LEU	2.7
10	CJ	63	LYS	2.6
16	CP	184	LYS	2.6
20	CT	52	LYS	2.6
25	CY	12	LYS	2.6
49	C	164	ILE	2.6
52	s4	248	ILE	2.6
54	H	68	LEU	2.7
70	X	104	LEU	2.7
80	Rb	33	LEU	2.7
12	CL	218	ALA	2.6
20	CT	183	ALA	2.6
31	AD	15	ALA	2.6
32	AE	85	ALA	2.6
40	DN	3	ALA	2.6
46	p0	197	PHE	2.6
57	s9	146	PHE	2.6
60	N	105	LYS	2.6
79	g	83	LYS	2.6
61	c3	72	MET	2.6
68	d0	84	MET	2.6
48	B	32	HIS	2.6
68	V	79	TRP	2.6
58	L	63	TYR	2.6
62	c4	58	TYR	2.6
65	c7	53	TYR	2.6
67	U	91	TYR	2.6
74	d6	73	TYR	2.6
1	1	1802	C	2.6
60	N	104	GLY	2.6
6	l	103	THR	2.6
28	DB	66	THR	2.6
30	DD	26	THR	2.6
53	G	147	THR	2.6
28	DB	127	ASN	2.6
67	c9	101	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
7	m	274	GLN	2.6
17	CQ	84	LEU	2.6
7	m	148	ILE	2.6
20	z	133	LYS	2.6
20	CT	51	VAL	2.6
29	AB	47	LYS	2.6
33	AF	128	LEU	2.6
47	A	260	U	2.6
48	B	18	LEU	2.6
48	B	24	LEU	2.6
48	B	190	ASP	2.6
49	C	47	LEU	2.6
49	C	225	VAL	2.6
52	s4	23	LEU	2.6
55	I	153	LEU	2.6
65	c7	59	LYS	2.6
67	c9	22	LEU	2.6
80	h	141	LEU	2.6
20	CT	96	ILE	2.6
31	DE	100	ILE	2.6
19	y	167	SER	2.6
22	2	19	PHE	2.6
62	P	23	PHE	2.6
70	X	76	SER	2.6
70	X	96	ALA	2.6
54	H	22	HIS	2.6
63	Q	15	HIS	2.6
49	C	29	TRP	2.6
52	s4	18	TRP	2.6
10	p	80	TYR	2.6
47	A	702	G	2.6
62	c4	52	ARG	2.6
27	9	44	GLY	2.6
52	s4	25	GLY	2.6
52	s4	29	PRO	2.6
72	Z	67	GLY	2.6
20	z	29	THR	2.6
12	CL	23	ASN	2.6
24	CX	28	ASN	2.6
37	AJ	12	ASN	2.6
44	DR	61	LYS	2.6
54	H	2	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
54	s6	168	THR	2.6
75	c	44	THR	2.6
48	s0	182	LEU	2.6
50	s2	61	LEU	2.6
55	I	16	LEU	2.6
55	s7	90	VAL	2.6
64	c6	19	VAL	2.6
67	U	30	VAL	2.6
72	d4	34	ASN	2.6
76	d8	66	LEU	2.6
37	DK	93	ILE	2.6
56	s8	101	ILE	2.6
58	L	43	ILE	2.6
7	CG	6	ASP	2.6
12	CL	219	ALA	2.6
14	t	193	ALA	2.6
47	sR	260	U	2.6
72	Z	135	ASP	2.6
53	s5	82	PHE	2.6
64	R	60	PHE	2.6
72	d4	33	ALA	2.6
80	h	24	ALA	2.6
80	h	212	ALA	2.6
3	AT	79	A	2.6
56	s8	176	SER	2.6
65	S	96	SER	2.6
77	d9	18	SER	2.6
51	s3	27	ARG	2.6
48	s0	195	TRP	2.6
67	c9	53	TRP	2.6
56	J	55	TYR	2.6
58	L	65	TYR	2.6
66	T	30	TYR	2.6
4	j	212	GLY	2.6
10	p	182	GLY	2.6
79	g	124	PRO	2.6
10	CJ	213	LYS	2.6
64	R	95	LYS	2.6
76	d	45	LYS	2.6
77	e	54	LYS	2.6
27	DA	6	LEU	2.6
46	p0	25	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
47	A	175	G	2.6
48	B	143	VAL	2.6
50	s2	154	LEU	2.6
53	s5	138	THR	2.6
57	s9	102	GLU	2.6
57	s9	140	ILE	2.6
58	L	92	ILE	2.6
60	N	60	VAL	2.6
65	c7	25	THR	2.6
66	c8	77	THR	2.6
11	q	10	ILE	2.6
78	e0	62	VAL	2.6
80	Rb	8	VAL	2.6
19	y	155	MET	2.6
54	H	140	ASN	2.6
58	c0	96	GLU	2.6
70	X	66	ASN	2.6
12	r	187	ALA	2.6
65	c7	90	ALA	2.6
75	c	32	PHE	2.6
80	Rb	212	ALA	2.6
80	Rb	253	ALA	2.6
1	1	979	U	2.6
4	j	195	SER	2.6
38	DL	87	SER	2.6
50	s2	181	SER	2.6
62	c4	11	SER	2.6
66	c8	2	SER	2.6
67	U	97	SER	2.6
51	E	76	ARG	2.6
74	b	89	ARG	2.6
47	A	1600	A	2.6
80	h	92	TRP	2.6
13	CM	145	LYS	2.6
23	CW	74	LYS	2.6
44	AQ	50	GLY	2.6
46	p0	18	TYR	2.6
53	G	209	TYR	2.6
56	J	199	LYS	2.6
57	s9	114	TYR	2.6
58	c0	90	PRO	2.6
67	U	31	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
68	V	61	LYS	2.6
68	V	71	PRO	2.6
80	h	62	LYS	2.6
80	Rb	55	GLY	2.6
10	CJ	189	LEU	2.6
39	AL	14	LEU	2.6
39	DM	73	LEU	2.6
48	B	3	LEU	2.6
49	C	70	LEU	2.6
49	C	207	LEU	2.6
57	K	70	LEU	2.6
79	e1	103	LEU	2.6
10	CJ	36	ILE	2.6
17	CQ	184	THR	2.6
38	AK	29	VAL	2.6
45	i	102	THR	2.6
51	s3	138	VAL	2.6
52	F	146	THR	2.6
76	d8	55	VAL	2.6
80	Rb	317	THR	2.6
13	s	39	GLN	2.6
51	s3	20	GLU	2.6
19	y	145	ASN	2.6
43	AP	106	PHE	2.6
53	s5	20	PHE	2.6
1	1	2442	G	2.5
54	H	29	ASP	2.6
54	s6	152	ASP	2.6
80	h	114	ASP	2.6
34	AG	48	ARG	2.5
37	DK	36	ARG	2.5
47	sR	1159	C	2.5
65	S	125	SER	2.5
70	X	5	SER	2.5
56	s8	123	LYS	2.5
5	CE	47	LEU	2.5
6	l	190	GLY	2.5
6	CF	233	LEU	2.5
23	CW	50	LEU	2.5
24	6	49	LEU	2.5
48	B	51	GLY	2.5
57	K	95	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
59	c1	63	LEU	2.5
63	c5	26	LEU	2.5
70	d2	59	GLY	2.5
80	Rb	141	LEU	2.5
5	CE	25	ILE	2.5
5	CE	335	ILE	2.5
22	CV	124	VAL	2.5
48	B	170	ILE	2.5
50	D	218	ILE	2.5
57	K	136	VAL	2.5
62	P	83	ILE	2.5
64	c6	36	ILE	2.5
68	d0	22	ILE	2.5
22	2	127	GLN	2.5
23	CW	98	THR	2.5
49	C	143	THR	2.5
50	D	208	GLU	2.5
50	s2	51	THR	2.5
51	E	38	GLU	2.5
53	G	176	THR	2.5
62	c4	91	THR	2.5
68	V	27	THR	2.5
75	c	37	CYS	2.5
6	CF	353	ALA	2.5
28	AA	124	ALA	2.5
45	sM	80	ALA	2.5
57	K	183	ALA	2.5
59	c1	146	ALA	2.5
67	U	83	ALA	2.5
54	s6	56	ASN	2.5
58	L	28	ASN	2.5
29	DC	76	ASP	2.5
54	H	159	ARG	2.5
69	W	22	ARG	2.5
6	l	176	SER	2.5
8	CH	156	LYS	2.5
35	DI	21	LYS	2.5
54	H	148	SER	2.5
61	c3	94	LYS	2.5
1	AR	2263	C	2.5
7	CG	293	LEU	2.5
11	q	191	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
24	6	5	GLY	2.5
49	s1	218	LEU	2.5
64	c6	38	LEU	2.5
18	x	165	VAL	2.5
51	s3	49	ILE	2.5
55	I	135	ILE	2.5
55	s7	136	VAL	2.5
63	c5	85	ILE	2.5
64	R	29	ILE	2.5
68	d0	116	VAL	2.5
76	d8	48	VAL	2.5
80	Rb	136	ILE	2.5
20	z	78	TYR	2.5
28	DB	18	TYR	2.5
1	1	2207	A	2.5
47	A	1427	A	2.5
47	sR	678	A	2.5
10	p	81	THR	2.5
43	DQ	79	THR	2.5
49	C	28	GLU	2.5
10	CJ	34	PHE	2.5
11	q	45	PHE	2.5
46	p0	79	PHE	2.5
49	C	119	THR	2.5
51	s3	26	THR	2.5
52	F	60	GLU	2.5
56	s8	19	ALA	2.5
61	c3	144	ALA	2.5
63	Q	46	ALA	2.5
79	e1	152	ALA	2.5
52	F	3	ARG	2.5
54	H	4	ASN	2.5
67	U	89	ARG	2.5
52	s4	16	HIS	2.5
14	t	131	LYS	2.5
36	DJ	84	LYS	2.5
40	AM	18	LYS	2.5
45	i	101	ASP	2.5
48	B	125	ASP	2.5
54	H	93	LYS	2.5
57	K	157	ASP	2.5
10	p	66	SER	2.5

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Mol	Chain	Res	Type	RSRZ
48	B	2	SER	2.5
54	s6	217	SER	2.5
69	d1	86	SER	2.5
4	CD	180	LEU	2.5
16	CP	74	PRO	2.5
32	AE	4	LEU	2.5
53	G	98	MET	2.5
54	H	8	PRO	2.5
56	J	96	LEU	2.5
80	h	91	LEU	2.5
7	m	64	ILE	2.5
10	CJ	119	GLY	2.5
11	CK	41	ILE	2.5
59	M	122	ILE	2.5
71	Y	80	GLY	2.5
76	d8	24	GLY	2.5
77	e	7	TRP	2.5
80	h	251	TRP	2.5
1	AR	1192	C	2.5
23	CW	33	TYR	2.5
37	DK	28	TYR	2.5
47	sR	1596	C	2.5
12	r	56	GLU	2.5
53	G	38	THR	2.5
55	I	85	PHE	2.5
65	S	18	GLU	2.5
72	d4	58	PHE	2.5
79	e1	120	GLU	2.5
5	k	42	ALA	2.5
8	CH	24	ALA	2.5
15	u	3	THR	2.5
35	DI	71	THR	2.5
49	C	98	THR	2.5
57	K	48	GLN	2.5
63	c5	14	THR	2.5
66	T	20	THR	2.5
71	Y	63	GLN	2.5
71	d3	63	GLN	2.5
28	DB	135	ARG	2.5
47	A	169	A	2.5
51	E	143	ARG	2.5
64	c6	114	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
71	Y	7	ARG	2.5
13	s	153	LYS	2.5
14	t	31	LYS	2.5
25	7	59	HIS	2.5
10	CJ	158	ASP	2.5
18	CR	108	ASP	2.5
66	T	91	ASP	2.5
11	q	118	LEU	2.5
15	u	135	LEU	2.5
48	s0	146	LEU	2.5
63	c5	25	LEU	2.5
3	AT	81	U	2.5
14	CN	3	ILE	2.5
28	AA	132	SER	2.5
29	DC	116	GLY	2.5
34	DH	105	SER	2.5
43	AP	34	SER	2.5
47	sR	794	U	2.5
51	E	33	GLY	2.5
80	Rb	82	SER	2.5
80	Rb	310	ILE	2.5
23	CW	66	VAL	2.5
54	s6	67	VAL	2.5
66	c8	22	VAL	2.5
28	DB	101	PHE	2.5
48	s0	110	TYR	2.5
53	G	43	PHE	2.5
58	c0	16	PHE	2.5
39	DM	59	ALA	2.5
50	D	92	ALA	2.5
53	s5	158	GLN	2.5
53	s5	21	THR	2.5
53	s5	38	THR	2.5
53	s5	73	THR	2.5
54	H	138	ALA	2.5
56	J	8	ARG	2.5
59	c1	145	ALA	2.5
61	O	57	ALA	2.5
61	O	62	GLN	2.5
68	V	45	ALA	2.5
80	h	69	GLN	2.5
1	AR	1582	C	2.5

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Mol	Chain	Res	Type	RSRZ
68	V	60	THR	2.5
80	h	74	THR	2.5
8	n	8	LYS	2.5
16	CP	13	LYS	2.5
8	CH	97	ASN	2.5
9	o	157	ASN	2.5
49	C	49	ASN	2.5
6	CF	212	ASP	2.4
6	CF	318	LEU	2.4
26	8	24	LEU	2.4
54	H	151	ASP	2.4
55	s7	99	LEU	2.4
57	K	105	LEU	2.4
80	Rb	316	MET	2.4
5	CE	144	ILE	2.4
22	CV	76	ILE	2.4
34	DH	90	PRO	2.4
48	s0	97	PRO	2.4
10	CJ	216	SER	2.4
14	t	97	VAL	2.4
17	CQ	16	VAL	2.4
24	CX	8	GLY	2.4
35	AH	77	GLY	2.4
35	DI	77	GLY	2.4
35	DI	17	SER	2.4
51	s3	16	VAL	2.4
52	F	34	GLY	2.4
52	F	111	VAL	2.4
60	N	55	GLY	2.4
63	c5	48	GLY	2.4
68	V	118	VAL	2.4
1	1	1782	U	2.4
17	CQ	100	GLU	2.4
35	DI	9	ARG	2.4
49	C	105	PHE	2.4
57	K	104	PHE	2.4
5	k	6	TYR	2.4
7	CG	58	LYS	2.4
9	o	27	ALA	2.4
14	CN	47	ALA	2.4
42	AO	25	LYS	2.4
51	E	144	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
53	s5	37	GLN	2.4
55	s7	52	ALA	2.4
71	d3	29	TYR	2.4
80	h	100	TYR	2.4
80	Rb	162	ALA	2.4
24	6	115	THR	2.4
48	s0	80	THR	2.4
53	G	94	THR	2.4
1	1	1574	C	2.4
51	s3	218	LEU	2.4
53	s5	99	MET	2.4
79	e1	151	ASN	2.4
7	CG	36	LEU	2.4
51	E	21	LEU	2.4
57	s9	97	LEU	2.4
60	N	133	LEU	2.4
26	8	142	ILE	2.4
45	i	11	ASP	2.4
48	s0	111	ILE	2.4
64	c6	98	ASP	2.4
70	X	103	ILE	2.4
70	d2	29	PRO	2.4
15	u	131	VAL	2.4
48	s0	73	VAL	2.4
56	J	177	GLY	2.4
74	b	18	VAL	2.4
74	d6	18	VAL	2.4
21	0	164	SER	2.4
23	CW	97	SER	2.4
40	DN	46	ARG	2.4
44	DR	20	SER	2.4
48	B	41	ARG	2.4
50	s2	164	SER	2.4
68	V	68	ARG	2.4
4	CD	196	TRP	2.4
22	CV	104	GLU	2.4
23	CW	71	PHE	2.4
32	DF	82	GLU	2.4
47	sR	1598	U	2.4
53	s5	43	PHE	2.4
56	J	200	LYS	2.4
63	Q	56	PHE	2.4

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Mol	Chain	Res	Type	RSRZ
71	d3	137	LYS	2.4
77	e	43	PHE	2.4
79	g	82	LYS	2.4
7	CG	4	GLN	2.4
18	CR	55	GLN	2.4
32	AE	57	GLN	2.4
36	AI	76	GLN	2.4
53	G	34	GLN	2.4
63	c5	131	ALA	2.4
72	d4	134	ALA	2.4
58	c0	79	TYR	2.4
79	g	148	TYR	2.4
80	Rb	314	GLN	2.4
50	D	90	THR	2.4
59	c1	72	THR	2.4
9	o	163	LEU	2.4
12	CL	102	MET	2.4
22	2	31	LEU	2.4
27	DA	57	LEU	2.4
35	AH	51	LEU	2.4
48	B	188	LEU	2.4
59	M	91	LEU	2.4
75	d7	33	LEU	2.4
79	g	117	LEU	2.4
80	Rb	225	LEU	2.4
79	e1	134	ASN	2.4
67	c9	2	PRO	2.4
68	V	20	ILE	2.4
3	AT	84	C	2.4
47	A	172	C	2.4
47	A	1596	C	2.4
71	Y	64	PRO	2.4
18	x	166	VAL	2.4
27	DA	11	ASP	2.4
37	DK	78	GLY	2.4
50	D	101	VAL	2.4
57	s9	83	VAL	2.4
62	P	124	ASP	2.4
71	Y	45	GLY	2.4
74	b	58	VAL	2.4
76	d	30	VAL	2.4
79	g	98	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
47	A	1371	A	2.4
19	y	161	LYS	2.4
43	AP	78	LYS	2.4
54	H	164	LYS	2.4
56	s8	75	LYS	2.4
68	V	89	ARG	2.4
80	Rb	46	LYS	2.4
1	1	1861	G	2.4
7	m	185	PHE	2.4
19	y	74	GLU	2.4
34	AG	3	GLU	2.4
47	sR	1717	G	2.4
54	s6	17	GLU	2.4
57	s9	145	SER	2.4
59	c1	50	GLU	2.4
69	d1	10	GLU	2.4
76	d8	21	SER	2.4
30	DD	2	ALA	2.4
51	s3	88	ALA	2.4
80	h	95	ALA	2.4
58	L	29	GLN	2.4
1	1	2501	U	2.4
20	CT	78	TYR	2.4
51	E	87	TYR	2.4
52	F	27	TYR	2.4
20	CT	63	THR	2.4
50	D	39	THR	2.4
50	D	117	THR	2.4
55	I	133	THR	2.4
68	V	87	HIS	2.4
78	e0	56	MET	2.4
22	2	27	LEU	2.4
31	DE	14	LEU	2.4
54	s6	184	LEU	2.4
78	f	49	LEU	2.4
80	h	222	LEU	2.4
56	J	60	ILE	2.4
60	N	72	ILE	2.4
67	U	36	ILE	2.4
21	0	74	ASN	2.4
45	sM	40	PRO	2.4
48	B	152	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
62	P	57	PRO	2.4
26	CZ	26	VAL	2.4
35	AH	5	VAL	2.4
4	j	176	ASP	2.4
11	q	2	LYS	2.4
18	x	180	LYS	2.4
32	DF	31	ARG	2.4
37	DK	15	LYS	2.4
41	DO	128	LYS	2.4
43	AP	100	LYS	2.4
44	DR	3	LYS	2.4
51	s3	140	GLY	2.4
56	s8	50	GLY	2.4
58	c0	89	VAL	2.4
60	N	37	VAL	2.4
49	s1	89	ASP	2.4
52	F	155	LYS	2.4
54	s6	196	ARG	2.4
57	K	62	ARG	2.4
58	L	44	LYS	2.4
65	S	95	ARG	2.4
71	d3	97	ASP	2.4
73	a	67	ASP	2.4
74	d6	12	LYS	2.4
47	A	321	C	2.4
17	w	48	PHE	2.4
47	sR	1189	A	2.4
47	sR	1597	A	2.4
53	s5	48	PHE	2.4
7	m	291	ALA	2.4
26	8	128	ALA	2.4
67	U	50	ALA	2.4
11	CK	22	SER	2.4
48	s0	193	GLN	2.4
67	U	41	SER	2.4
68	V	18	GLN	2.4
68	V	120	SER	2.4
71	Y	24	TRP	2.4
1	1	2873	U	2.4
1	AR	3079	U	2.4
7	CG	119	TYR	2.4
16	v	183	THR	2.4

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Mol	Chain	Res	Type	RSRZ
24	6	9	THR	2.4
36	AI	11	THR	2.4
39	DM	72	THR	2.4
62	P	86	THR	2.4
63	c5	30	THR	2.4
68	V	25	THR	2.4
79	e1	105	TYR	2.4
15	CO	135	LEU	2.4
31	AD	51	LEU	2.4
37	AJ	60	LEU	2.4
39	DM	69	LEU	2.4
45	i	94	HIS	2.4
53	s5	42	LEU	2.4
57	s9	123	HIS	2.4
66	T	3	LEU	2.4
75	c	33	LEU	2.4
80	Rb	270	LEU	2.4
60	N	106	ILE	2.4
64	c6	29	ILE	2.4
68	d0	91	ILE	2.4
32	AE	27	LYS	2.3
45	i	103	LYS	2.3
52	F	223	ASN	2.3
62	P	18	ARG	2.3
63	Q	103	ASN	2.3
64	R	45	ARG	2.3
66	T	56	LYS	2.3
69	W	36	VAL	2.3
72	d4	128	LYS	2.3
73	d5	40	VAL	2.3
79	g	147	VAL	2.3
35	DI	78	GLY	2.3
51	s3	130	GLY	2.3
74	b	9	GLY	2.3
79	e1	129	GLY	2.3
9	o	220	PHE	2.3
4	j	229	ALA	2.3
10	CJ	196	ALA	2.3
14	CN	132	ALA	2.3
24	CX	6	ALA	2.3
54	s6	166	GLU	2.3
56	s8	145	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
58	L	84	GLU	2.3
65	S	126	ALA	2.3
47	A	1634	C	2.3
50	D	87	GLN	2.3
56	J	119	GLN	2.3
72	Z	106	GLN	2.3
77	d9	20	GLN	2.3
5	k	2	SER	2.3
47	sR	1193	A	2.3
54	s6	148	SER	2.3
59	M	143	SER	2.3
69	W	68	SER	2.3
4	CD	19	HIS	2.3
7	m	222	LEU	2.3
10	p	201	THR	2.3
51	E	202	LEU	2.3
58	L	66	TYR	2.3
65	S	53	TYR	2.3
67	U	28	LEU	2.3
70	d2	38	LEU	2.3
71	Y	33	LEU	2.3
72	Z	28	LEU	2.3
72	d4	17	LEU	2.3
80	h	25	THR	2.3
80	h	234	LEU	2.3
80	Rb	25	THR	2.3
80	Rb	42	LEU	2.3
1	AR	3275	U	2.3
22	2	42	ILE	2.3
37	AJ	9	ILE	2.3
40	DN	51	ILE	2.3
49	C	161	ILE	2.3
53	s5	137	ILE	2.3
17	CQ	134	LYS	2.3
30	AC	25	LYS	2.3
51	E	141	LYS	2.3
52	s4	31	PRO	2.3
56	J	10	LYS	2.3
64	R	30	LYS	2.3
1	1	2522	G	2.3
1	AR	1561	G	2.3
1	AR	1565	G	2.3

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Mol	Chain	Res	Type	RSRZ
4	CD	247	ARG	2.3
19	CS	174	ARG	2.3
29	AB	117	ARG	2.3
34	DH	86	ARG	2.3
36	DJ	48	ARG	2.3
47	A	676	G	2.3
47	A	1112	G	2.3
53	G	102	ARG	2.3
54	s6	179	VAL	2.3
70	X	97	ARG	2.3
78	f	50	VAL	2.3
53	s5	75	GLY	2.3
71	d3	22	ASN	2.3
43	AP	36	PHE	2.3
55	I	61	PHE	2.3
76	d8	32	PHE	2.3
5	k	360	ASP	2.3
13	s	168	ASP	2.3
21	0	134	ASP	2.3
69	d1	40	ASP	2.3
80	h	272	ASP	2.3
10	CJ	198	ALA	2.3
14	t	135	ALA	2.3
35	DI	32	ALA	2.3
35	DI	39	ALA	2.3
54	s6	182	GLN	2.3
72	d4	106	GLN	2.3
6	CF	182	LEU	2.3
11	q	22	SER	2.3
24	6	69	LEU	2.3
48	B	176	LEU	2.3
52	s4	12	LEU	2.3
57	s9	109	LEU	2.3
58	c0	15	LEU	2.3
1	1	1192	C	2.3
1	AR	3063	C	2.3
47	A	310	C	2.3
49	C	153	HIS	2.3
79	g	145	HIS	2.3
14	CN	62	THR	2.3
1	AR	621	A	2.3
3	AT	80	A	2.3

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Mol	Chain	Res	Type	RSRZ
27	DA	45	ILE	2.3
34	DH	107	ILE	2.3
38	DL	66	TYR	2.3
47	A	72	A	2.3
47	sR	1427	A	2.3
52	F	138	TYR	2.3
15	u	133	LYS	2.3
54	H	167	LYS	2.3
1	AR	2205	U	2.3
4	j	241	ARG	2.3
16	CP	73	ARG	2.3
70	d2	23	ARG	2.3
7	CG	286	VAL	2.3
9	o	84	VAL	2.3
46	p0	84	VAL	2.3
57	K	148	VAL	2.3
66	c8	52	VAL	2.3
70	X	109	GLY	2.3
74	b	16	GLY	2.3
19	CS	145	ASN	2.3
67	c9	127	ASN	2.3
63	c5	138	PHE	2.3
15	CO	136	ALA	2.3
17	CQ	187	GLU	2.3
19	CS	175	ALA	2.3
25	7	65	GLU	2.3
64	c6	40	GLU	2.3
76	d8	10	ALA	2.3
12	r	130	ASP	2.3
7	m	151	GLN	2.3
11	q	161	LEU	2.3
54	s6	69	LEU	2.3
56	J	20	GLN	2.3
57	s9	28	LEU	2.3
58	L	80	LEU	2.3
62	c4	62	LEU	2.3
65	c7	35	CYS	2.3
23	CW	92	TRP	2.3
53	G	172	ILE	2.3
56	J	37	LYS	2.3
56	J	44	HIS	2.3
57	K	68	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
67	U	135	ILE	2.3
70	X	35	ILE	2.3
66	c8	62	THR	2.3
80	h	306	THR	2.3
80	Rb	135	THR	2.3
10	CJ	249	ARG	2.3
11	q	168	ARG	2.3
19	y	180	ARG	2.3
24	6	45	ARG	2.3
25	7	17	ARG	2.3
34	DH	60	ARG	2.3
46	p0	22	TYR	2.3
56	J	117	TYR	2.3
80	Rb	311	ARG	2.3
1	1	2101	C	2.3
7	m	52	VAL	2.3
27	DA	8	VAL	2.3
46	p0	50	VAL	2.3
46	p0	87	VAL	2.3
46	p0	187	VAL	2.3
51	E	43	PRO	2.3
47	A	131	C	2.3
47	sR	239	C	2.3
58	c0	21	VAL	2.3
1	AR	3157	U	2.3
5	k	185	GLY	2.3
22	CV	23	GLY	2.3
48	s0	82	GLY	2.3
72	d4	120	GLY	2.3
80	h	97	GLY	2.3
17	w	182	ASN	2.3
24	6	4	ASN	2.3
25	CY	112	ASN	2.3
27	DA	78	PHE	2.3
30	DD	6	ASN	2.3
53	G	104	ASN	2.3
69	d1	35	ASN	2.3
6	l	56	ALA	2.3
10	CJ	125	ALA	2.3
10	CJ	161	GLU	2.3
14	t	47	ALA	2.3
50	s2	231	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
51	E	3	ALA	2.3
54	s6	1	MET	2.3
54	s6	100	ALA	2.3
80	Rb	214	ALA	2.3
35	DI	51	LEU	2.3
37	DK	11	LEU	2.3
49	C	92	GLN	2.3
49	s1	228	LEU	2.3
65	S	103	ASP	2.3
67	U	105	LEU	2.3
69	W	69	LEU	2.3
69	d1	67	ASP	2.3
72	d4	125	LEU	2.3
80	h	76	ASP	2.3
8	CH	29	LYS	2.3
14	CN	185	LYS	2.3
45	i	166	LYS	2.3
59	c1	141	LYS	2.3
1	AR	1349	G	2.3
21	CU	58	ILE	2.3
22	CV	96	ILE	2.3
46	p0	100	ILE	2.3
55	I	46	ILE	2.3
68	V	65	ILE	2.3
72	Z	7	ILE	2.3
72	Z	13	ILE	2.3
6	l	60	THR	2.3
21	0	85	SER	2.3
35	DI	58	ARG	2.3
42	AO	6	ARG	2.3
45	sM	68	ARG	2.3
49	s1	26	ARG	2.3
53	G	138	THR	2.3
54	H	219	ARG	2.3
55	s7	187	SER	2.3
56	s8	8	ARG	2.3
56	s8	67	TRP	2.3
76	d8	18	ARG	2.3
80	Rb	134	TRP	2.3
63	Q	92	SER	2.3
7	CG	31	TYR	2.3
48	B	138	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
48	s0	194	PRO	2.3
53	G	164	PRO	2.3
56	s8	55	TYR	2.3
59	c1	35	TYR	2.3
57	s9	101	VAL	2.3
65	c7	118	PRO	2.3
66	c8	4	VAL	2.3
68	V	56	VAL	2.3
7	m	127	GLY	2.3
74	d6	9	GLY	2.3
1	AR	3155	U	2.3
1	1	1866	C	2.2
1	AR	1581	C	2.2
19	CS	153	PHE	2.2
22	CV	56	PHE	2.2
23	5	107	PHE	2.2
47	A	171	A	2.2
47	sR	25	C	2.2
47	sR	1467	C	2.2
80	Rb	103	PHE	2.2
4	j	26	ALA	2.2
12	r	219	ALA	2.2
43	DQ	33	ALA	2.2
52	F	2	ALA	2.2
56	J	89	GLU	2.2
57	K	74	ASN	2.2
7	m	131	LEU	2.2
44	AQ	22	LEU	2.2
59	M	5	LEU	2.2
63	Q	26	LEU	2.2
65	c7	57	LEU	2.2
74	d6	71	LEU	2.2
76	d	54	LEU	2.2
20	CT	21	LYS	2.2
30	DD	23	LYS	2.2
33	DG	62	LYS	2.2
49	s1	92	GLN	2.2
50	D	88	LYS	2.2
54	H	190	GLN	2.2
57	K	92	LYS	2.2
65	c7	62	GLN	2.2
54	s6	89	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
64	R	43	ILE	2.2
66	c8	14	ILE	2.2
68	d0	24	ILE	2.2
73	d5	41	ILE	2.2
23	5	94	ARG	2.2
52	s4	200	ARG	2.2
54	H	23	ARG	2.2
64	R	114	ARG	2.2
5	k	103	THR	2.2
7	m	275	THR	2.2
20	CT	23	TRP	2.2
9	o	217	PRO	2.2
16	v	42	PRO	2.2
28	AA	70	PRO	2.2
43	DQ	84	THR	2.2
50	s2	52	THR	2.2
50	s2	166	THR	2.2
53	G	73	THR	2.2
53	s5	46	TRP	2.2
56	s8	107	THR	2.2
59	M	72	THR	2.2
51	s3	137	VAL	2.2
52	s4	227	VAL	2.2
62	P	94	PRO	2.2
67	U	71	VAL	2.2
76	d8	7	VAL	2.2
13	s	116	TYR	2.2
55	s7	173	TYR	2.2
58	c0	41	TYR	2.2
65	c7	84	TYR	2.2
1	1	1349	G	2.2
2	AS	1	G	2.2
43	DQ	14	GLY	2.2
50	D	202	GLY	2.2
54	s6	55	GLY	2.2
68	V	73	GLY	2.2
21	0	4	PHE	2.2
28	DB	4	PHE	2.2
57	s9	147	MET	2.2
63	c5	89	MET	2.2
80	h	278	PHE	2.2
1	AR	1124	U	2.2

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Mol	Chain	Res	Type	RSRZ
1	AR	1356	U	2.2
47	sR	782	U	2.2
19	y	162	ALA	2.2
53	s5	182	ALA	2.2
56	s8	79	ALA	2.2
1	1	1745	C	2.2
12	CL	209	ASN	2.2
19	CS	140	LEU	2.2
22	2	97	LYS	2.2
29	AB	92	LYS	2.2
30	AC	58	LYS	2.2
35	DI	57	LEU	2.2
47	A	1193	A	2.2
47	A	1591	C	2.2
47	sR	1196	A	2.2
50	s2	99	LYS	2.2
52	F	44	LEU	2.2
58	c0	28	ASN	2.2
68	d0	63	LEU	2.2
71	Y	99	ASN	2.2
71	d3	112	LYS	2.2
24	6	7	GLN	2.2
35	DI	61	GLN	2.2
48	B	63	ILE	2.2
51	s3	115	ILE	2.2
63	Q	84	ILE	2.2
66	c8	71	GLN	2.2
49	C	152	ARG	2.2
52	F	197	HIS	2.2
53	s5	83	ARG	2.2
54	H	137	ARG	2.2
54	H	186	ARG	2.2
64	R	66	ARG	2.2
10	CJ	25	PRO	2.2
15	CO	66	THR	2.2
26	CZ	119	THR	2.2
48	B	45	VAL	2.2
49	s1	68	VAL	2.2
51	s3	12	VAL	2.2
58	c0	61	TRP	2.2
58	c0	83	PRO	2.2
60	N	31	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
67	U	53	TRP	2.2
80	Rb	45	TRP	2.2
7	m	119	TYR	2.2
32	AE	69	TYR	2.2
38	AK	84	SER	2.2
55	I	115	SER	2.2
55	I	142	TYR	2.2
74	d6	62	TYR	2.2
80	Rb	112	SER	2.2
46	p0	184	GLY	2.2
67	U	98	GLY	2.2
72	Z	122	GLY	2.2
75	d7	69	GLY	2.2
52	F	87	MET	2.2
20	z	132	PHE	2.2
80	Rb	263	PHE	2.2
11	CK	2	LYS	2.2
1	AR	2115	G	2.2
5	k	213	GLU	2.2
12	CL	2	ALA	2.2
22	2	121	ALA	2.2
28	AA	27	LYS	2.2
29	DC	77	LYS	2.2
49	s1	135	LEU	2.2
49	s1	195	LYS	2.2
47	sR	1474	G	2.2
50	D	155	ALA	2.2
51	E	29	LEU	2.2
51	E	30	ALA	2.2
51	E	219	ALA	2.2
52	F	134	LYS	2.2
54	s6	133	LEU	2.2
55	s7	126	LEU	2.2
57	s9	138	LYS	2.2
64	c6	52	LEU	2.2
74	b	4	LYS	2.2
80	h	80	ALA	2.2
47	sR	1285	U	2.2
4	CD	140	ASN	2.2
34	DH	106	ASN	2.2
12	r	162	GLN	2.2
14	t	180	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
50	s2	137	ILE	2.2
52	F	162	ILE	2.2
58	L	95	ARG	2.2
61	O	16	ILE	2.2
80	Rb	10	ARG	2.2
1	AR	1580	A	2.2
47	sR	506	A	2.2
1	AR	3154	C	2.2
47	sR	658	C	2.2
13	CM	168	ASP	2.2
48	B	157	ASP	2.2
19	y	61	PRO	2.2
55	I	32	PRO	2.2
57	K	169	PRO	2.2
67	U	9	VAL	2.2
70	X	29	PRO	2.2
76	d8	44	VAL	2.2
45	i	81	THR	2.2
57	K	7	THR	2.2
57	s9	7	THR	2.2
70	X	2	THR	2.2
76	d8	19	THR	2.2
5	CE	185	GLY	2.2
26	8	141	TYR	2.2
37	DK	20	MET	2.2
53	G	75	GLY	2.2
56	J	51	GLY	2.2
62	P	98	GLY	2.2
62	c4	98	GLY	2.2
63	c5	80	MET	2.2
64	R	49	TYR	2.2
16	CP	77	LYS	2.2
25	CY	27	LYS	2.2
26	CZ	109	LYS	2.2
57	K	138	LYS	2.2
63	c5	56	PHE	2.2
65	S	72	LYS	2.2
9	CI	129	LEU	2.2
13	s	12	LEU	2.2
54	s6	111	LEU	2.2
60	N	58	LEU	2.2
14	t	40	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
23	CW	46	ALA	2.2
45	i	159	GLU	2.2
53	G	26	ALA	2.2
59	M	10	GLU	2.2
61	O	24	ALA	2.2
66	T	146	ALA	2.2
80	Rb	95	ALA	2.2
20	CT	170	ARG	2.2
23	5	93	ILE	2.2
25	7	47	ARG	2.2
42	DP	17	ARG	2.2
47	sR	1060	U	2.2
48	B	27	ARG	2.2
52	F	77	ARG	2.2
54	H	87	ARG	2.2
56	s8	78	ILE	2.2
63	Q	85	ILE	2.2
64	R	65	ILE	2.2
10	CJ	79	GLN	2.2
14	CN	6	ASN	2.2
32	AE	87	ASN	2.2
60	N	80	ASN	2.2
66	c8	19	ASN	2.2
71	Y	21	ASN	2.2
47	A	730	G	2.2
7	m	6	ASP	2.2
18	x	51	VAL	2.2
19	y	62	VAL	2.2
20	CT	22	VAL	2.2
28	AA	104	PRO	2.2
28	DB	24	VAL	2.2
47	A	623	A	2.2
47	sR	173	A	2.2
48	B	47	VAL	2.2
48	B	207	PRO	2.2
48	s0	50	VAL	2.2
51	E	164	VAL	2.2
62	P	42	VAL	2.2
68	d0	118	VAL	2.2
73	d5	66	VAL	2.2
1	1	1292	C	2.2
2	AS	73	C	2.2

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Mol	Chain	Res	Type	RSRZ
23	CW	16	THR	2.2
25	7	19	THR	2.2
44	DR	56	THR	2.2
56	J	120	THR	2.2
60	N	67	THR	2.2
63	c5	135	THR	2.2
65	c7	8	THR	2.2
66	T	62	THR	2.2
6	CF	360	LYS	2.2
14	t	130	GLY	2.2
22	CV	120	LYS	2.2
54	s6	165	GLY	2.2
55	I	148	LYS	2.2
59	c1	32	LYS	2.2
59	c1	46	LYS	2.2
53	G	184	PHE	2.2
52	s4	222	LEU	2.2
53	s5	57	SER	2.2
54	H	16	PHE	2.2
67	U	66	TYR	2.2
37	DK	42	SER	2.2
48	s0	2	SER	2.2
66	T	32	LEU	2.2
66	T	61	LEU	2.2
70	d2	5	SER	2.2
77	d9	8	PHE	2.2
72	Z	125	LEU	2.2
7	CG	189	GLU	2.2
10	p	76	ALA	2.2
10	p	115	ALA	2.2
20	CT	189	ALA	2.2
23	5	12	ALA	2.2
35	AH	32	ALA	2.2
35	DI	82	ALA	2.2
36	AI	64	GLU	2.2
43	AP	33	ALA	2.2
56	J	13	ALA	2.2
60	N	69	ALA	2.2
77	e	47	ALA	2.2
5	k	305	ILE	2.1
11	q	179	ILE	2.1
49	C	137	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
62	c4	39	ILE	2.1
71	d3	23	ARG	2.1
73	a	41	ILE	2.1
77	d9	12	ARG	2.1
80	h	59	ARG	2.1
45	i	108	GLN	2.1
1	AR	3078	U	2.1
6	l	18	ASN	2.1
22	CV	77	ASN	2.1
56	J	52	ASN	2.1
57	K	155	HIS	2.1
72	d4	133	ASN	2.1
46	p0	105	VAL	2.1
46	p0	188	VAL	2.1
48	B	29	VAL	2.1
48	B	42	PRO	2.1
58	c0	4	PRO	2.1
59	c1	139	VAL	2.1
4	j	208	ASP	2.1
6	l	362	ASP	2.1
11	CK	42	ASP	2.1
14	t	98	ASP	2.1
79	e1	137	ASP	2.1
80	Rb	114	ASP	2.1
6	l	310	THR	2.1
6	CF	80	GLY	2.1
12	CL	174	THR	2.1
15	u	8	LYS	2.1
19	y	8	LYS	2.1
17	CQ	69	GLY	2.1
43	AP	26	THR	2.1
47	A	1592	A	2.1
50	D	52	THR	2.1
53	s5	27	THR	2.1
53	s5	45	LYS	2.1
54	H	64	LYS	2.1
54	H	71	THR	2.1
64	c6	95	LYS	2.1
80	h	118	LYS	2.1
54	H	165	GLY	2.1
80	Rb	99	THR	2.1
1	1	2772	C	2.1

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Mol	Chain	Res	Type	RSRZ
1	AR	2685	C	2.1
1	AR	3278	C	2.1
12	CL	217	PHE	2.1
21	0	143	PHE	2.1
28	AA	42	LEU	2.1
51	E	77	PHE	2.1
51	s3	59	LEU	2.1
60	N	97	LEU	2.1
64	R	129	PHE	2.1
64	c6	129	PHE	2.1
75	d7	41	LEU	2.1
58	c0	66	TYR	2.1
9	o	23	ALA	2.1
19	y	146	SER	2.1
43	DQ	48	SER	2.1
56	s8	155	SER	2.1
63	Q	54	ALA	2.1
67	U	96	ALA	2.1
80	h	285	ALA	2.1
80	Rb	244	ALA	2.1
19	y	151	ARG	2.1
20	CT	85	ARG	2.1
28	AA	15	ARG	2.1
42	DP	18	ARG	2.1
45	i	162	GLU	2.1
50	D	205	ARG	2.1
54	s6	94	ARG	2.1
58	c0	97	ARG	2.1
70	X	18	GLU	2.1
31	DE	10	ILE	2.1
80	h	67	ILE	2.1
12	r	220	GLN	2.1
36	AI	62	GLN	2.1
80	h	52	GLN	2.1
66	c8	55	HIS	2.1
65	S	123	ASN	2.1
66	T	90	ASN	2.1
71	Y	94	ASN	2.1
1	1	2102	U	2.1
8	CH	7	PRO	2.1
20	z	51	VAL	2.1
45	sM	44	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
47	A	1370	U	2.1
47	sR	1191	U	2.1
48	B	37	VAL	2.1
54	H	97	VAL	2.1
68	V	110	PRO	2.1
68	V	114	VAL	2.1
80	h	58	VAL	2.1
80	h	154	VAL	2.1
12	CL	13	LYS	2.1
13	CM	153	LYS	2.1
16	CP	204	LYS	2.1
21	CU	166	LYS	2.1
25	CY	110	LYS	2.1
55	I	111	LYS	2.1
56	s8	17	LYS	2.1
63	c5	24	LYS	2.1
71	d3	31	LYS	2.1
45	i	113	ASP	2.1
52	s4	79	ASP	2.1
54	s6	57	ASP	2.1
4	CD	2	GLY	2.1
7	CG	275	THR	2.1
10	CJ	201	THR	2.1
14	CN	41	THR	2.1
32	AE	66	GLY	2.1
55	s7	137	GLY	2.1
65	S	30	THR	2.1
67	U	39	THR	2.1
74	d6	67	THR	2.1
78	e0	48	THR	2.1
19	y	166	LEU	2.1
22	CV	19	PHE	2.1
23	CW	105	LEU	2.1
41	AN	121	LEU	2.1
51	E	107	PHE	2.1
51	s3	202	LEU	2.1
52	F	109	PHE	2.1
65	c7	100	LEU	2.1
67	c9	21	PHE	2.1
71	d3	38	PHE	2.1
72	Z	58	PHE	2.1
78	f	39	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	AR	1865	A	2.1
14	t	78	ALA	2.1
16	CP	147	ARG	2.1
22	CV	84	TYR	2.1
30	DD	29	TYR	2.1
32	AE	31	ARG	2.1
39	DM	2	ALA	2.1
43	AP	18	ARG	2.1
47	A	621	A	2.1
48	B	65	ALA	2.1
48	B	110	TYR	2.1
51	s3	149	ALA	2.1
52	s4	28	ALA	2.1
55	s7	97	ARG	2.1
61	c3	15	ALA	2.1
80	h	257	ALA	2.1
80	h	303	ALA	2.1
5	k	227	GLU	2.1
1	1	3154	C	2.1
16	CP	152	CYS	2.1
19	y	181	SER	2.1
20	z	86	GLU	2.1
37	DK	51	SER	2.1
50	D	131	ILE	2.1
51	E	97	SER	2.1
53	G	57	SER	2.1
56	s8	28	GLU	2.1
57	K	106	GLU	2.1
57	s9	50	SER	2.1
60	N	134	SER	2.1
64	R	121	SER	2.1
65	S	89	SER	2.1
68	d0	38	SER	2.1
69	W	23	ILE	2.1
71	d3	60	GLU	2.1
73	d5	78	ILE	2.1
75	c	64	CYS	2.1
75	d7	62	ILE	2.1
80	Rb	26	SER	2.1
55	I	71	HIS	2.1
79	e1	135	HIS	2.1
6	l	46	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
7	CG	259	LYS	2.1
13	s	9	MET	2.1
25	7	41	LYS	2.1
29	DC	24	LYS	2.1
35	AH	23	VAL	2.1
49	C	85	LYS	2.1
50	D	80	VAL	2.1
52	F	245	LYS	2.1
53	G	115	LYS	2.1
53	s5	168	VAL	2.1
55	s7	73	VAL	2.1
63	Q	105	VAL	2.1
64	R	128	LYS	2.1
68	V	42	VAL	2.1
71	Y	62	LYS	2.1
80	Rb	151	VAL	2.1
58	L	83	PRO	2.1
80	Rb	247	PRO	2.1
1	AR	1095	U	2.1
1	AR	3277	U	2.1
47	sR	320	U	2.1
5	k	17	LEU	2.1
5	CE	299	ASP	2.1
6	l	105	THR	2.1
7	m	55	PHE	2.1
11	q	80	THR	2.1
22	2	18	ASP	2.1
35	DI	53	GLY	2.1
43	DQ	35	LEU	2.1
46	p0	19	LEU	2.1
56	J	50	GLY	2.1
61	c3	53	LEU	2.1
70	X	67	GLY	2.1
79	g	100	LEU	2.1
80	Rb	243	LEU	2.1
80	Rb	265	LEU	2.1
46	p0	57	THR	2.1
56	s8	197	THR	2.1
63	Q	45	PHE	2.1
4	CD	72	ARG	2.1
52	F	145	ARG	2.1
52	s4	59	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
55	s7	47	ARG	2.1
61	O	3	ARG	2.1
75	c	29	ARG	2.1
80	h	134	TRP	2.1
5	k	75	ALA	2.1
26	8	41	ALA	2.1
7	CG	12	TYR	2.1
9	o	141	TYR	2.1
26	8	139	ILE	2.1
26	CZ	139	ILE	2.1
55	s7	68	ALA	2.1
56	s8	162	ALA	2.1
63	Q	66	ALA	2.1
66	T	69	ILE	2.1
66	c8	102	ALA	2.1
29	DC	109	TYR	2.1
53	s5	77	TYR	2.1
58	c0	93	TYR	2.1
68	V	74	GLU	2.1
73	a	88	ILE	2.1
1	1	2404	A	2.1
1	AR	2401	A	2.1
10	p	255	SER	2.1
46	p0	35	SER	2.1
55	s7	115	SER	2.1
56	J	154	SER	2.1
59	M	77	SER	2.1
74	d6	7	SER	2.1
16	CP	15	GLN	2.1
40	AM	11	GLN	2.1
56	J	159	GLN	2.1
1	1	2507	C	2.1
1	AR	982	C	2.1
1	AR	2094	C	2.1
10	CJ	246	MET	2.1
11	q	122	LYS	2.1
24	CX	66	LYS	2.1
26	8	26	VAL	2.1
29	DC	47	LYS	2.1
34	DH	92	LYS	2.1
47	A	729	G	2.1
47	A	1100	G	2.1

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Mol	Chain	Res	Type	RSRZ
49	C	125	VAL	2.1
49	C	151	LYS	2.1
71	Y	18	HIS	2.1
50	D	165	VAL	2.1
50	D	167	VAL	2.1
52	F	136	VAL	2.1
60	N	116	VAL	2.1
65	c7	99	VAL	2.1
80	h	271	VAL	2.1
80	Rb	118	LYS	2.1
30	DD	24	PRO	2.1
48	B	4	PRO	2.1
48	B	126	PRO	2.1
51	E	220	PRO	2.1
53	s5	67	PRO	2.1
54	H	139	ASN	2.1
66	c8	87	ASN	2.1
23	CW	76	LEU	2.1
26	8	40	LEU	2.1
35	AH	30	LEU	2.1
39	DM	14	LEU	2.1
50	s2	148	LEU	2.1
51	s3	72	LEU	2.1
52	F	261	LEU	2.1
4	CD	248	GLY	2.1
6	l	68	GLY	2.1
6	CF	245	GLY	2.1
13	CM	102	PHE	2.1
47	sR	144	U	2.1
54	H	47	GLY	2.1
63	c5	19	GLY	2.1
69	W	48	GLY	2.1
4	j	147	ARG	2.1
26	CZ	37	THR	2.1
28	AA	65	ARG	2.1
28	AA	98	THR	2.1
42	AO	18	ARG	2.1
54	H	125	THR	2.1
63	Q	14	THR	2.1
66	c8	57	ARG	2.1
78	f	54	ARG	2.1
4	j	169	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
4	j	182	ALA	2.1
4	j	239	ALA	2.1
6	CF	74	ILE	2.1
15	u	134	ALA	2.1
18	x	156	ALA	2.1
18	x	158	ALA	2.1
26	8	23	ALA	2.1
32	AE	99	ALA	2.1
33	DG	9	ILE	2.1
34	DH	2	ALA	2.1
40	AM	3	ALA	2.1
44	DR	2	ALA	2.1
48	s0	20	ALA	2.1
51	E	149	ALA	2.1
62	P	17	ALA	2.1
63	Q	131	ALA	2.1
66	c8	35	ILE	2.1
68	d0	103	ILE	2.1
72	d4	130	ALA	2.1
80	h	254	ALA	2.1
80	Rb	119	ALA	2.1
22	2	118	GLU	2.1
51	s3	23	GLU	2.1
4	j	189	TYR	2.1
11	q	92	TYR	2.1
80	h	232	TYR	2.1
5	CE	66	LYS	2.0
7	CG	5	LYS	2.0
10	CJ	111	LYS	2.0
15	CO	8	LYS	2.0
15	CO	28	SER	2.0
18	CR	66	SER	2.0
34	AG	19	SER	2.0
38	DL	71	SER	2.0
80	h	120	SER	2.0
67	U	70	GLN	2.0
79	e1	141	CYS	2.0
1	1	628	A	2.0
5	k	229	VAL	2.0
8	CH	15	VAL	2.0
22	2	72	VAL	2.0
35	DI	72	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
49	C	215	VAL	2.0
52	F	105	VAL	2.0
53	G	23	VAL	2.0
54	H	108	VAL	2.0
72	d4	27	VAL	2.0
73	a	60	VAL	2.0
79	g	102	VAL	2.0
79	e1	108	VAL	2.0
79	e1	150	VAL	2.0
63	Q	68	PRO	2.0
64	R	41	PRO	2.0
6	l	328	ASN	2.0
12	CL	206	LEU	2.0
31	DE	16	LEU	2.0
47	sR	1195	C	2.0
48	s0	172	LEU	2.0
50	D	201	ASN	2.0
53	s5	108	LEU	2.0
72	Z	91	LEU	2.0
80	Rb	210	LEU	2.0
18	x	181	ARG	2.0
30	AC	20	GLY	2.0
42	DP	23	ARG	2.0
44	DR	80	ARG	2.0
47	A	142	G	2.0
47	sR	1200	G	2.0
49	C	138	PHE	2.0
54	H	177	ARG	2.0
54	s6	134	GLY	2.0
58	L	59	PHE	2.0
59	c1	42	PHE	2.0
64	R	33	GLY	2.0
65	S	67	ARG	2.0
67	U	86	ARG	2.0
1	1	1801	U	2.0
1	AR	2269	U	2.0
42	DP	10	THR	2.0
47	A	144	U	2.0
48	s0	6	THR	2.0
50	D	206	THR	2.0
67	U	65	ILE	2.0
68	V	29	THR	2.0

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Mol	Chain	Res	Type	RSRZ
68	d0	41	ILE	2.0
70	X	27	ILE	2.0
73	a	50	ILE	2.0
80	Rb	72	THR	2.0
80	Rb	116	ASP	2.0
80	Rb	199	ILE	2.0
6	l	15	ALA	2.0
36	AI	2	ALA	2.0
74	d6	40	ALA	2.0
17	w	40	GLU	2.0
49	s1	90	GLU	2.0
60	N	21	GLU	2.0
64	R	50	GLU	2.0
10	CJ	49	TYR	2.0
51	s3	185	LYS	2.0
52	s4	233	LYS	2.0
57	K	91	LYS	2.0
68	V	21	LYS	2.0
69	d1	25	LYS	2.0
6	l	99	MET	2.0
61	O	4	MET	2.0
9	o	26	VAL	2.0
9	CI	164	SER	2.0
10	p	197	VAL	2.0
21	0	49	HIS	2.0
49	C	157	GLN	2.0
50	D	237	VAL	2.0
59	M	118	GLN	2.0
72	Z	69	SER	2.0
72	Z	70	VAL	2.0
80	h	113	VAL	2.0
80	Rb	35	SER	2.0
80	Rb	309	VAL	2.0
45	sM	52	PRO	2.0
59	c1	23	PRO	2.0
1	AR	438	A	2.0
1	AR	2119	A	2.0
14	CN	7	LEU	2.0
33	DG	128	LEU	2.0
51	s3	69	LEU	2.0
52	F	9	LEU	2.0
53	s5	174	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
6	l	69	ARG	2.0
16	v	203	ARG	2.0
45	i	68	ARG	2.0
53	s5	139	ASN	2.0
54	s6	142	ARG	2.0
61	c3	138	ASN	2.0
74	b	11	ASN	2.0
6	CF	57	GLY	2.0
49	C	100	PHE	2.0
51	E	25	PHE	2.0
51	s3	63	GLY	2.0
58	c0	59	PHE	2.0
63	c5	117	GLY	2.0
74	b	14	GLY	2.0
76	d	17	GLY	2.0
47	A	394	C	2.0
47	sR	1602	C	2.0
53	G	89	ILE	2.0
54	H	24	ILE	2.0
54	s6	101	ILE	2.0
55	I	91	ILE	2.0
5	k	235	THR	2.0
5	CE	350	ALA	2.0
6	l	49	ALA	2.0
19	y	40	THR	2.0
38	DL	83	ALA	2.0
43	AP	79	THR	2.0
45	i	164	ALA	2.0
48	B	132	ALA	2.0
52	s4	2	ALA	2.0
53	s5	201	ALA	2.0
65	S	54	THR	2.0
66	T	58	ALA	2.0
71	Y	113	ALA	2.0
74	d6	63	ALA	2.0
1	1	718	G	2.0
17	w	100	GLU	2.0
47	A	88	U	2.0
52	F	212	ASP	2.0
25	CY	60	LYS	2.0
52	F	127	LYS	2.0
56	s8	151	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
58	L	38	LYS	2.0
66	c8	80	LYS	2.0
68	d0	52	LYS	2.0
79	e1	149	LYS	2.0
63	Q	89	MET	2.0
67	U	45	MET	2.0
10	CJ	130	TYR	2.0
74	d6	68	TYR	2.0
80	Rb	100	TYR	2.0
80	Rb	232	TYR	2.0
6	l	52	VAL	2.0
8	n	15	VAL	2.0
8	CH	52	VAL	2.0
10	CJ	116	VAL	2.0
20	CT	17	VAL	2.0
28	DB	53	VAL	2.0
46	p0	28	VAL	2.0
49	C	21	VAL	2.0
50	D	103	VAL	2.0
51	E	58	VAL	2.0
72	Z	5	VAL	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($\text{\AA}^2$)	Q<0.9
82	MG	A	2086	1/1	0.26	0.27	128,128,128,128	0
82	MG	sR	2131	1/1	0.40	0.26	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3962	1/1	0.45	0.26	107,107,107,107	0
82	MG	A	2020	1/1	0.45	0.25	104,104,104,104	0
82	MG	1	4016	1/1	0.48	0.27	89,89,89,89	0
82	MG	A	2051	1/1	0.48	0.27	97,97,97,97	0
82	MG	A	2072	1/1	0.49	0.39	109,109,109,109	0
82	MG	1	3683	1/1	0.50	0.37	79,79,79,79	0
82	MG	AR	3768	1/1	0.51	0.64	104,104,104,104	0
81	OHX	1	3582	7/7	0.51	0.24	260,263,270,343	0
82	MG	1	4057	1/1	0.52	0.30	89,89,89,89	0
81	OHX	4	214	7/7	0.53	0.17	208,216,218,304	0
82	MG	AR	4034	1/1	0.55	0.15	117,117,117,117	0
82	MG	A	2036	1/1	0.55	0.36	85,85,85,85	0
82	MG	AS	3525	1/1	0.56	0.21	87,87,87,87	0
82	MG	A	2085	1/1	0.58	0.19	102,102,102,102	0
82	MG	AR	4115	1/1	0.58	0.12	86,86,86,86	0
82	MG	1	4015	1/1	0.58	0.36	87,87,87,87	0
82	MG	AR	3715	1/1	0.59	0.34	93,93,93,93	0
82	MG	AR	3994	1/1	0.60	0.13	85,85,85,85	0
82	MG	sR	2161	1/1	0.61	0.33	87,87,87,87	0
82	MG	sR	2121	1/1	0.62	0.26	98,98,98,98	0
81	OHX	AR	4195	7/7	0.62	0.16	253,261,266,349	0
82	MG	A	2076	1/1	0.62	0.19	91,91,91,91	0
82	MG	1	3973	1/1	0.63	0.20	79,79,79,79	0
82	MG	1	4070	1/1	0.63	0.35	91,91,91,91	0
81	OHX	AR	3634	7/7	0.63	0.18	237,250,262,351	0
81	OHX	1	4133	7/7	0.63	0.16	232,246,250,329	0
82	MG	A	2008	1/1	0.63	0.37	102,102,102,102	0
81	OHX	4	202	7/7	0.64	0.17	225,236,247,324	0
82	MG	AR	3755	1/1	0.64	0.39	88,88,88,88	0
82	MG	d4	202	1/1	0.64	0.20	92,92,92,92	0
82	MG	A	2087	1/1	0.65	0.24	100,100,100,100	0
82	MG	1	3948	1/1	0.66	0.23	79,79,79,79	0
82	MG	sR	2119	1/1	0.66	0.17	97,97,97,97	0
81	OHX	AR	3630	7/7	0.66	0.23	176,186,198,288	0
82	MG	AR	3922	1/1	0.66	0.35	82,82,82,82	0
81	OHX	1	3602	7/7	0.66	0.20	265,272,280,365	0
82	MG	1	3764	1/1	0.66	0.40	102,102,102,102	0
82	MG	1	3711	1/1	0.67	0.32	81,81,81,81	0
82	MG	AR	3960	1/1	0.67	0.19	83,83,83,83	0
81	OHX	sR	1986	7/7	0.67	0.16	201,206,214,287	0
82	MG	A	2045	1/1	0.67	0.29	85,85,85,85	0
82	MG	AR	3740	1/1	0.67	0.39	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	A	2063	1/1	0.67	0.28	72,72,72,72	0
81	OHX	sR	2023	7/7	0.67	0.17	216,226,238,304	0
81	OHX	AR	3681	7/7	0.67	0.17	203,212,225,308	0
82	MG	AR	4020	1/1	0.68	0.26	79,79,79,79	0
82	MG	AR	3769	1/1	0.68	0.40	85,85,85,85	0
82	MG	AR	4051	1/1	0.68	0.16	96,96,96,96	0
82	MG	1	3949	1/1	0.68	0.38	78,78,78,78	0
82	MG	sR	2104	1/1	0.68	0.17	84,84,84,84	0
81	OHX	sR	2169	7/7	0.69	0.16	183,189,200,280	0
82	MG	1	3736	1/1	0.69	0.32	63,63,63,63	0
81	OHX	1	3501	7/7	0.69	0.18	159,167,177,262	0
82	MG	sR	2150	1/1	0.69	0.18	73,73,73,73	0
82	MG	b	202	1/1	0.69	0.23	87,87,87,87	0
82	MG	A	2001	1/1	0.69	0.46	71,71,71,71	0
81	OHX	1	3611	7/7	0.70	0.17	218,226,239,311	0
81	OHX	sR	2168	7/7	0.70	0.17	228,237,241,321	0
81	OHX	AR	3638	7/7	0.70	0.22	163,176,191,270	0
82	MG	AR	4112	1/1	0.70	0.30	79,79,79,79	0
82	MG	1	3860	1/1	0.70	0.31	65,65,65,65	0
82	MG	AR	3971	1/1	0.70	0.38	84,84,84,84	0
81	OHX	AR	3674	7/7	0.70	0.19	210,218,232,310	0
82	MG	AR	4013	1/1	0.70	0.42	82,82,82,82	0
82	MG	c6	202	1/1	0.70	0.27	94,94,94,94	0
82	MG	A	2012	1/1	0.70	0.29	68,68,68,68	0
81	OHX	1	3613	7/7	0.71	0.15	192,202,210,278	0
82	MG	AR	3919	1/1	0.71	0.29	84,84,84,84	0
81	OHX	1	3598	7/7	0.71	0.16	206,211,229,307	0
82	MG	1	4151	1/1	0.71	0.39	89,89,89,89	0
82	MG	AR	3962	1/1	0.71	0.36	92,92,92,92	0
82	MG	sR	2147	1/1	0.71	0.30	81,81,81,81	0
81	OHX	1	3555	7/7	0.71	0.18	193,201,210,295	0
81	OHX	sR	2001	7/7	0.71	0.18	182,189,199,265	0
82	MG	s9	201	1/1	0.71	0.41	79,79,79,79	0
81	OHX	AR	3673	7/7	0.71	0.13	211,212,225,296	0
81	OHX	1	3552	7/7	0.71	0.23	170,177,189,266	0
81	OHX	AR	3663	7/7	0.72	0.14	210,217,230,302	0
82	MG	AR	3942	1/1	0.72	0.14	76,76,76,76	0
82	MG	1	4006	1/1	0.72	0.38	93,93,93,93	0
81	OHX	1	3615	7/7	0.72	0.19	228,238,250,339	0
82	MG	6	202	1/1	0.72	0.32	96,96,96,96	0
82	MG	A	2027	1/1	0.72	0.21	96,96,96,96	0
81	OHX	AR	3653	7/7	0.72	0.17	227,234,240,302	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	A	2095	1/1	0.72	0.32	76,76,76,76	0
82	MG	AR	4140	1/1	0.72	0.19	50,50,50,50	0
82	MG	sR	2042	1/1	0.72	0.37	80,80,80,80	0
82	MG	sR	2114	1/1	0.73	0.19	63,63,63,63	0
82	MG	4	228	1/1	0.73	0.16	67,67,67,67	0
81	OHX	1	3584	7/7	0.73	0.15	184,203,208,281	0
81	OHX	AR	3683	7/7	0.73	0.20	209,223,235,333	0
82	MG	1	4017	1/1	0.73	0.32	77,77,77,77	0
81	OHX	x	209	7/7	0.73	0.12	218,231,243,322	0
82	MG	AR	3764	1/1	0.73	0.27	80,80,80,80	0
81	OHX	1	3599	7/7	0.73	0.18	205,206,217,309	0
82	MG	A	2062	1/1	0.73	0.11	82,82,82,82	0
82	MG	1	3626	1/1	0.73	0.24	70,70,70,70	0
82	MG	AR	4022	1/1	0.74	0.17	74,74,74,74	0
82	MG	1	3754	1/1	0.74	0.30	64,64,64,64	0
82	MG	AR	4050	1/1	0.74	0.33	72,72,72,72	0
82	MG	AR	3772	1/1	0.74	0.14	70,70,70,70	0
82	MG	AR	3836	1/1	0.74	0.16	63,63,63,63	0
82	MG	AR	3864	1/1	0.74	0.25	58,58,58,58	0
81	OHX	1	3610	7/7	0.74	0.13	253,257,270,345	0
82	MG	AR	4161	1/1	0.74	0.30	67,67,67,67	0
82	MG	AS	3517	1/1	0.74	0.18	79,79,79,79	0
82	MG	t	202	1/1	0.74	0.25	86,86,86,86	0
82	MG	CO	201	1/1	0.74	0.20	67,67,67,67	0
82	MG	A	1998	1/1	0.74	0.31	74,74,74,74	0
82	MG	1	3814	1/1	0.74	0.29	80,80,80,80	0
81	OHX	1	3601	7/7	0.74	0.22	156,165,176,261	0
81	OHX	AR	3661	7/7	0.74	0.18	189,196,210,290	0
82	MG	sR	2145	1/1	0.74	0.14	99,99,99,99	0
82	MG	AR	3748	1/1	0.74	0.31	63,63,63,63	0
82	MG	1	4051	1/1	0.74	0.27	85,85,85,85	0
82	MG	AR	4010	1/1	0.74	0.31	57,57,57,57	0
82	MG	A	2039	1/1	0.74	0.13	92,92,92,92	0
81	OHX	sR	2026	7/7	0.74	0.16	211,218,223,298	0
81	OHX	AT	215	7/7	0.74	0.15	189,196,203,292	0
82	MG	AR	3886	1/1	0.75	0.20	75,75,75,75	0
81	OHX	sR	1999	7/7	0.75	0.19	188,194,204,274	0
82	MG	1	3872	1/1	0.75	0.22	66,66,66,66	0
82	MG	1	3628	1/1	0.75	0.30	68,68,68,68	0
82	MG	AR	4104	1/1	0.75	0.28	88,88,88,88	0
82	MG	AR	3952	1/1	0.75	0.48	80,80,80,80	0
81	OHX	3	222	7/7	0.75	0.12	222,231,235,310	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	4129	1/1	0.75	0.18	77,77,77,77	0
82	MG	A	2047	1/1	0.75	0.31	91,91,91,91	0
81	OHX	AR	4197	7/7	0.75	0.11	227,239,243,309	0
81	OHX	AS	3510	7/7	0.75	0.19	192,197,211,275	0
81	OHX	1	3569	7/7	0.75	0.16	178,185,195,273	0
82	MG	AS	3519	1/1	0.75	0.28	73,73,73,73	0
82	MG	s8	301	1/1	0.75	0.55	117,117,117,117	0
82	MG	AR	3786	1/1	0.75	0.30	66,66,66,66	0
81	OHX	AR	3684	7/7	0.75	0.12	203,215,220,304	0
81	OHX	sR	2177	7/7	0.75	0.12	208,210,216,292	0
82	MG	sR	2098	1/1	0.76	0.12	73,73,73,73	0
81	OHX	sR	2020	7/7	0.76	0.14	198,206,212,285	0
82	MG	AR	3923	1/1	0.76	0.26	85,85,85,85	0
82	MG	AT	205	1/1	0.76	0.41	68,68,68,68	0
81	OHX	AR	3640	7/7	0.76	0.17	198,204,219,298	0
82	MG	sR	2124	1/1	0.76	0.40	82,82,82,82	0
82	MG	1	3992	1/1	0.76	0.50	102,102,102,102	0
82	MG	1	3841	1/1	0.76	0.25	76,76,76,76	0
82	MG	1	3844	1/1	0.76	0.22	72,72,72,72	0
81	OHX	sR	2025	7/7	0.76	0.13	209,214,224,303	0
82	MG	AR	3861	1/1	0.76	0.33	48,48,48,48	0
82	MG	1	3620	1/1	0.76	0.26	72,72,72,72	0
81	OHX	AR	3672	7/7	0.76	0.13	215,220,235,315	0
82	MG	1	3755	1/1	0.76	0.23	65,65,65,65	0
82	MG	A	2040	1/1	0.76	0.28	82,82,82,82	0
81	OHX	d0	201	7/7	0.77	0.15	212,218,221,290	0
81	OHX	AR	3679	7/7	0.77	0.12	230,233,251,317	0
81	OHX	AR	4202	7/7	0.77	0.61	70,70,72,87	7
82	MG	1	4025	1/1	0.77	0.15	73,73,73,73	0
81	OHX	AR	3668	7/7	0.77	0.15	182,189,194,282	0
82	MG	A	2088	1/1	0.77	0.32	81,81,81,81	0
82	MG	CI	302	1/1	0.77	0.27	58,58,58,58	0
82	MG	Y	201	1/1	0.77	0.23	79,79,79,79	0
82	MG	1	3871	1/1	0.77	0.33	68,68,68,68	0
82	MG	AR	3809	1/1	0.77	0.27	61,61,61,61	0
81	OHX	AT	212	7/7	0.77	0.18	170,188,191,275	0
82	MG	A	2004	1/1	0.77	0.22	74,74,74,74	0
82	MG	sR	2109	1/1	0.77	0.28	75,75,75,75	0
82	MG	1	3688	1/1	0.77	0.20	66,66,66,66	0
81	OHX	1	3556	7/7	0.77	0.17	191,200,207,290	0
82	MG	AR	3865	1/1	0.77	0.41	49,49,49,49	0
81	OHX	A	2121	7/7	0.77	0.18	231,237,244,321	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	4058	1/1	0.77	0.32	87,87,87,87	0
82	MG	sR	2144	1/1	0.77	0.26	85,85,85,85	0
82	MG	A	2038	1/1	0.77	0.20	76,76,76,76	0
82	MG	AR	4097	1/1	0.77	0.41	82,82,82,82	0
81	OHX	1	3578	7/7	0.77	0.11	231,240,248,308	0
82	MG	1	3984	1/1	0.77	0.29	66,66,66,66	0
81	OHX	sR	2176	7/7	0.77	0.18	168,172,175,207	7
82	MG	AR	4124	1/1	0.77	0.29	106,106,106,106	0
82	MG	AR	3935	1/1	0.77	0.25	65,65,65,65	0
81	OHX	AR	3631	7/7	0.77	0.14	200,210,222,306	0
82	MG	AR	3904	1/1	0.78	0.24	71,71,71,71	0
82	MG	4	225	1/1	0.78	0.25	70,70,70,70	0
82	MG	CE	408	1/1	0.78	0.34	78,78,78,78	0
82	MG	CF	402	1/1	0.78	0.27	84,84,84,84	0
82	MG	1	3894	1/1	0.78	0.20	66,66,66,66	0
82	MG	1	3896	1/1	0.78	0.21	81,81,81,81	0
82	MG	x	202	1/1	0.78	0.41	93,93,93,93	0
82	MG	AR	4057	1/1	0.78	0.20	83,83,83,83	0
82	MG	sR	2059	1/1	0.78	0.12	62,62,62,62	0
82	MG	sR	2092	1/1	0.78	0.40	83,83,83,83	0
82	MG	sR	2093	1/1	0.78	0.26	83,83,83,83	0
82	MG	AR	3782	1/1	0.78	0.30	70,70,70,70	0
82	MG	AR	4075	1/1	0.78	0.20	82,82,82,82	0
82	MG	1	4039	1/1	0.78	0.47	64,64,64,64	0
82	MG	AR	3958	1/1	0.78	0.19	71,71,71,71	0
82	MG	A	2023	1/1	0.78	0.15	71,71,71,71	0
82	MG	AR	4111	1/1	0.78	0.22	77,77,77,77	0
82	MG	AR	3700	1/1	0.78	0.29	69,69,69,69	0
82	MG	1	3928	1/1	0.78	0.32	83,83,83,83	0
82	MG	sR	2141	1/1	0.78	0.11	85,85,85,85	0
82	MG	AR	4119	1/1	0.78	0.34	83,83,83,83	0
82	MG	1	3832	1/1	0.78	0.30	54,54,54,54	0
82	MG	AR	3976	1/1	0.78	0.18	60,60,60,60	0
82	MG	sR	2148	1/1	0.78	0.16	69,69,69,69	0
81	OHX	AR	4200	7/7	0.78	0.14	175,176,186,273	0
82	MG	sR	2154	1/1	0.78	0.29	88,88,88,88	0
82	MG	AR	3996	1/1	0.78	0.19	80,80,80,80	0
82	MG	AR	4162	1/1	0.78	0.45	79,79,79,79	0
82	MG	AR	4166	1/1	0.78	0.37	83,83,83,83	0
82	MG	AR	3750	1/1	0.78	0.25	76,76,76,76	0
81	OHX	AR	4201	7/7	0.78	0.14	192,200,208,288	0
82	MG	1	4049	1/1	0.79	0.25	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	3900	1/1	0.79	0.22	79,79,79,79	0
82	MG	sR	2035	1/1	0.79	0.27	69,69,69,69	0
81	OHX	sR	2175	7/7	0.79	0.23	142,149,152,168	7
82	MG	AR	4131	1/1	0.79	0.15	82,82,82,82	0
82	MG	AR	3914	1/1	0.79	0.27	59,59,59,59	0
81	OHX	1	3548	7/7	0.79	0.14	197,201,205,291	0
82	MG	1	4059	1/1	0.79	0.17	79,79,79,79	0
82	MG	AR	4041	1/1	0.79	0.29	70,70,70,70	0
82	MG	AS	3502	1/1	0.79	0.20	88,88,88,88	0
81	OHX	1	3562	7/7	0.79	0.12	216,222,234,324	0
81	OHX	c3	201	7/7	0.79	0.13	203,210,217,273	0
82	MG	1	3993	1/1	0.79	0.15	91,91,91,91	0
82	MG	A	2048	1/1	0.79	0.25	79,79,79,79	0
82	MG	sR	2130	1/1	0.79	0.21	74,74,74,74	0
82	MG	AS	3526	1/1	0.79	0.16	73,73,73,73	0
82	MG	sR	2133	1/1	0.79	0.37	97,97,97,97	0
82	MG	A	2053	1/1	0.79	0.29	80,80,80,80	0
82	MG	sR	2142	1/1	0.79	0.17	105,105,105,105	0
81	OHX	A	1962	7/7	0.79	0.15	200,202,209,267	0
81	OHX	A	1966	7/7	0.79	0.15	201,205,214,291	0
82	MG	A	2069	1/1	0.79	0.18	75,75,75,75	0
81	OHX	1	3617	7/7	0.79	0.16	179,186,195,267	0
81	OHX	1	3585	7/7	0.79	0.12	239,243,249,307	0
82	MG	CM	202	1/1	0.79	0.27	74,74,74,74	0
81	OHX	AR	3677	7/7	0.79	0.13	186,195,207,294	0
82	MG	sR	2167	1/1	0.79	0.20	64,64,64,64	0
82	MG	DP	101	1/1	0.79	0.34	66,66,66,66	0
82	MG	1	4026	1/1	0.79	0.21	72,72,72,72	0
82	MG	1	3953	1/1	0.79	0.16	64,64,64,64	0
82	MG	A	2096	1/1	0.79	0.40	82,82,82,82	0
82	MG	A	2059	1/1	0.80	0.14	65,65,65,65	0
82	MG	1	4082	1/1	0.80	0.32	86,86,86,86	0
82	MG	1	3642	1/1	0.80	0.17	64,64,64,64	0
82	MG	AR	4133	1/1	0.80	0.41	57,57,57,57	0
82	MG	1	3930	1/1	0.80	0.22	72,72,72,72	0
82	MG	AR	4153	1/1	0.80	0.20	58,58,58,58	0
82	MG	AR	3928	1/1	0.80	0.38	74,74,74,74	0
82	MG	1	3935	1/1	0.80	0.20	73,73,73,73	0
82	MG	s	300	1/1	0.80	0.12	100,100,100,100	0
81	OHX	AT	203	7/7	0.80	0.15	179,183,187,270	0
82	MG	AR	3953	1/1	0.80	0.20	70,70,70,70	0
81	OHX	sR	2024	7/7	0.80	0.14	210,223,227,300	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	A	2099	1/1	0.80	0.29	76,76,76,76	0
82	MG	1	3709	1/1	0.80	0.19	53,53,53,53	0
82	MG	AF	202	1/1	0.80	0.21	59,59,59,59	0
82	MG	sR	2033	1/1	0.80	0.40	76,76,76,76	0
81	OHX	1	3593	7/7	0.80	0.13	193,199,208,280	0
82	MG	AT	224	1/1	0.80	0.14	79,79,79,79	0
82	MG	1	3966	1/1	0.80	0.38	84,84,84,84	0
82	MG	AR	3977	1/1	0.80	0.11	78,78,78,78	0
82	MG	1	3731	1/1	0.80	0.36	50,50,50,50	0
81	OHX	1	402	7/7	0.80	0.11	203,213,227,297	0
82	MG	1	3987	1/1	0.80	0.21	85,85,85,85	0
81	OHX	sR	2027	7/7	0.80	0.13	221,223,232,292	0
82	MG	sR	2112	1/1	0.80	0.37	136,136,136,136	0
82	MG	A	1985	1/1	0.80	0.33	66,66,66,66	0
81	OHX	AR	4196	7/7	0.80	0.20	153,165,179,262	0
81	OHX	AR	3641	7/7	0.80	0.15	176,184,188,269	0
81	OHX	sR	2172	7/7	0.80	0.11	235,239,246,293	0
82	MG	1	3821	1/1	0.80	0.22	65,65,65,65	0
81	OHX	A	1968	7/7	0.80	0.11	236,237,247,292	0
82	MG	1	4020	1/1	0.80	0.34	88,88,88,88	0
82	MG	sR	2136	1/1	0.80	0.17	85,85,85,85	0
82	MG	AR	3801	1/1	0.80	0.36	51,51,51,51	0
82	MG	1	4024	1/1	0.80	0.18	80,80,80,80	0
82	MG	A	2031	1/1	0.80	0.14	76,76,76,76	0
81	OHX	AR	4198	7/7	0.80	0.17	181,191,191,280	0
81	OHX	1	4124	7/7	0.80	0.12	192,199,210,281	0
81	OHX	1	3600	7/7	0.80	0.11	190,198,211,281	0
82	MG	sR	2149	1/1	0.80	0.19	71,71,71,71	0
82	MG	1	3867	1/1	0.80	0.42	85,85,85,85	0
82	MG	sR	2153	1/1	0.80	0.26	103,103,103,103	0
82	MG	A	2042	1/1	0.80	0.13	80,80,80,80	0
81	OHX	1	3597	7/7	0.80	0.15	182,190,204,279	0
81	OHX	sR	2018	6/7	0.80	0.16	204,205,213,301	0
81	OHX	sR	2019	7/7	0.80	0.11	224,227,232,312	0
82	MG	AR	4120	1/1	0.80	0.29	63,63,63,63	0
81	OHX	1	3564	7/7	0.80	0.13	199,200,207,274	0
82	MG	A	2058	1/1	0.80	0.13	92,92,92,92	0
82	MG	1	3952	1/1	0.81	0.19	71,71,71,71	0
81	OHX	3	206	7/7	0.81	0.12	201,204,208,274	0
82	MG	1	4023	1/1	0.81	0.41	72,72,72,72	0
82	MG	1	3958	1/1	0.81	0.18	70,70,70,70	0
82	MG	AR	3797	1/1	0.81	0.29	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	AR	3686	7/7	0.81	0.12	195,201,208,299	0
82	MG	sR	2060	1/1	0.81	0.30	93,93,93,93	0
82	MG	sR	2082	1/1	0.81	0.39	68,68,68,68	0
82	MG	sR	2086	1/1	0.81	0.16	78,78,78,78	0
82	MG	z	202	1/1	0.81	0.21	73,73,73,73	0
82	MG	AR	3832	1/1	0.81	0.29	43,43,43,43	0
82	MG	AR	4128	1/1	0.81	0.22	70,70,70,70	0
81	OHX	1	3595	7/7	0.81	0.19	148,155,166,240	0
82	MG	AR	3980	1/1	0.81	0.23	67,67,67,67	0
82	MG	A	2033	1/1	0.81	0.31	82,82,82,82	0
82	MG	AB	205	1/1	0.81	0.31	81,81,81,81	0
82	MG	1	3819	1/1	0.81	0.23	60,60,60,60	0
82	MG	AR	4150	1/1	0.81	0.29	80,80,80,80	0
82	MG	sR	2123	1/1	0.81	0.16	97,97,97,97	0
82	MG	AR	3999	1/1	0.81	0.16	57,57,57,57	0
82	MG	1	4042	1/1	0.81	0.25	58,58,58,58	0
81	OHX	1	3583	7/7	0.81	0.16	144,150,161,234	0
82	MG	AR	3718	1/1	0.81	0.12	89,89,89,89	0
82	MG	AR	4184	1/1	0.81	0.26	77,77,77,77	0
82	MG	1	3902	1/1	0.81	0.44	74,74,74,74	0
82	MG	AS	3514	1/1	0.81	0.58	130,130,130,130	0
82	MG	AR	4025	1/1	0.81	0.26	78,78,78,78	0
82	MG	AR	4026	1/1	0.81	0.17	82,82,82,82	0
82	MG	AR	3910	1/1	0.81	0.25	55,55,55,55	0
81	OHX	sR	2013	7/7	0.81	0.12	212,219,229,298	0
82	MG	AR	4049	1/1	0.81	0.25	74,74,74,74	0
82	MG	AT	222	1/1	0.81	0.17	89,89,89,89	0
82	MG	sR	2152	1/1	0.81	0.21	67,67,67,67	0
82	MG	1	3840	1/1	0.81	0.15	71,71,71,71	0
82	MG	AT	229	1/1	0.81	0.40	75,75,75,75	0
82	MG	sR	2155	1/1	0.81	0.28	80,80,80,80	0
81	OHX	AR	3667	7/7	0.81	0.14	182,187,205,273	0
82	MG	AR	3756	1/1	0.81	0.20	59,59,59,59	0
81	OHX	AT	202	7/7	0.81	0.16	174,186,188,275	0
81	OHX	A	1970	7/7	0.81	0.11	207,215,226,295	0
82	MG	AR	4084	1/1	0.81	0.37	86,86,86,86	0
82	MG	DC	203	1/1	0.81	0.34	78,78,78,78	0
82	MG	AR	4074	1/1	0.82	0.10	75,75,75,75	0
81	OHX	AR	3502	7/7	0.82	0.20	110,127,129,205	0
82	MG	AR	3738	1/1	0.82	0.24	54,54,54,54	0
82	MG	1	4045	1/1	0.82	0.13	49,49,49,49	0
81	OHX	3	221	7/7	0.82	0.12	198,202,208,290	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3865	1/1	0.82	0.17	84,84,84,84	0
82	MG	sR	2068	1/1	0.82	0.24	76,76,76,76	0
82	MG	sR	2081	1/1	0.82	0.25	56,56,56,56	0
82	MG	1	4054	1/1	0.82	0.34	75,75,75,75	0
81	OHX	1	3575	7/7	0.82	0.12	183,192,202,270	0
82	MG	sR	2089	1/1	0.82	0.21	78,78,78,78	0
82	MG	AR	3956	1/1	0.82	0.18	82,82,82,82	0
82	MG	AR	3763	1/1	0.82	0.29	68,68,68,68	0
82	MG	AR	4122	1/1	0.82	0.26	73,73,73,73	0
81	OHX	sR	2008	7/7	0.82	0.13	176,179,194,261	0
81	OHX	1	3612	7/7	0.82	0.13	170,172,178,260	0
82	MG	1	3891	1/1	0.82	0.28	63,63,63,63	0
81	OHX	4	213	7/7	0.82	0.13	156,161,172,257	0
82	MG	3	208	1/1	0.82	0.17	65,65,65,65	0
82	MG	3	212	1/1	0.82	0.28	66,66,66,66	0
82	MG	AR	3988	1/1	0.82	0.10	61,61,61,61	0
82	MG	AR	3990	1/1	0.82	0.10	75,75,75,75	0
82	MG	4	216	1/1	0.82	0.36	77,77,77,77	0
82	MG	1	4002	1/1	0.82	0.14	70,70,70,70	0
82	MG	4	226	1/1	0.82	0.16	55,55,55,55	0
82	MG	AR	3817	1/1	0.82	0.38	54,54,54,54	0
81	OHX	CG	303	7/7	0.82	0.12	198,206,217,289	0
82	MG	4	234	1/1	0.82	0.34	62,62,62,62	0
81	OHX	DK	201	7/7	0.82	0.13	220,222,242,324	0
82	MG	1	3781	1/1	0.82	0.43	57,57,57,57	0
82	MG	sR	2146	1/1	0.82	0.17	69,69,69,69	0
81	OHX	1	4131	7/7	0.82	0.14	170,172,182,255	0
82	MG	AR	4027	1/1	0.82	0.14	58,58,58,58	0
82	MG	AR	3867	1/1	0.82	0.32	55,55,55,55	0
81	OHX	1	3603	7/7	0.82	0.12	201,203,218,286	0
82	MG	AR	4042	1/1	0.82	0.11	74,74,74,74	0
81	OHX	AR	3649	7/7	0.82	0.15	187,199,208,291	0
81	OHX	1	3594	7/7	0.82	0.11	206,219,228,293	0
82	MG	A	2093	1/1	0.82	0.47	83,83,83,83	0
82	MG	1	3672	1/1	0.82	0.39	79,79,79,79	0
81	OHX	AR	3658	7/7	0.82	0.13	189,194,204,272	0
82	MG	1	3957	1/1	0.82	0.12	82,82,82,82	0
82	MG	A	2101	1/1	0.82	0.18	68,68,68,68	0
82	MG	A	2102	1/1	0.82	0.23	79,79,79,79	0
82	MG	AR	4069	1/1	0.82	0.32	83,83,83,83	0
81	OHX	1	3544	7/7	0.83	0.12	182,185,193,271	0
82	MG	AR	4000	1/1	0.83	0.30	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3932	1/1	0.83	0.09	91,91,91,91	0
82	MG	AR	3785	1/1	0.83	0.43	54,54,54,54	0
82	MG	1	3761	1/1	0.83	0.29	55,55,55,55	0
82	MG	1	4065	1/1	0.83	0.41	58,58,58,58	0
81	OHX	AR	3671	7/7	0.83	0.12	160,174,185,264	0
82	MG	1	3765	1/1	0.83	0.32	60,60,60,60	0
81	OHX	sR	2007	7/7	0.83	0.16	165,174,186,246	0
82	MG	1	4155	1/1	0.83	0.29	65,65,65,65	0
82	MG	1	3788	1/1	0.83	0.19	60,60,60,60	0
82	MG	AR	3838	1/1	0.83	0.44	60,60,60,60	0
82	MG	1	3797	1/1	0.83	0.27	65,65,65,65	0
81	OHX	AR	3575	7/7	0.83	0.17	156,163,167,254	0
82	MG	A	1989	1/1	0.83	0.25	70,70,70,70	0
82	MG	sR	2084	1/1	0.83	0.20	80,80,80,80	0
82	MG	1	3959	1/1	0.83	0.17	58,58,58,58	0
82	MG	A	2000	1/1	0.83	0.26	72,72,72,72	0
82	MG	1	3817	1/1	0.83	0.15	69,69,69,69	0
81	OHX	AR	3598	7/7	0.83	0.15	150,164,177,245	0
82	MG	AR	4061	1/1	0.83	0.21	78,78,78,78	0
81	OHX	AR	3599	7/7	0.83	0.12	163,169,186,260	0
82	MG	A	2018	1/1	0.83	0.23	85,85,85,85	0
82	MG	AR	3903	1/1	0.83	0.30	76,76,76,76	0
82	MG	1	3822	1/1	0.83	0.22	54,54,54,54	0
82	MG	sR	2118	1/1	0.83	0.12	93,93,93,93	0
81	OHX	1	3561	7/7	0.83	0.19	142,151,163,225	0
81	OHX	1	4122	7/7	0.83	0.16	127,143,153,230	0
82	MG	1	3634	1/1	0.83	0.36	69,69,69,69	0
81	OHX	AR	3680	7/7	0.83	0.10	219,228,232,300	0
82	MG	1	4003	1/1	0.83	0.18	62,62,62,62	0
82	MG	AR	3924	1/1	0.83	0.26	69,69,69,69	0
82	MG	1	3852	1/1	0.83	0.19	65,65,65,65	0
82	MG	1	3859	1/1	0.83	0.28	59,59,59,59	0
82	MG	AR	3706	1/1	0.83	0.28	66,66,66,66	0
82	MG	1	3645	1/1	0.83	0.37	65,65,65,65	0
81	OHX	1	3566	7/7	0.83	0.15	180,184,195,265	0
82	MG	AR	3955	1/1	0.83	0.14	63,63,63,63	0
82	MG	AR	3727	1/1	0.83	0.20	41,41,41,41	0
81	OHX	AR	3682	7/7	0.83	0.11	204,209,218,283	0
81	OHX	A	2130	7/7	0.83	0.12	187,188,201,269	0
82	MG	1	3705	1/1	0.83	0.15	80,80,80,80	0
82	MG	1	3888	1/1	0.83	0.38	81,81,81,81	0
82	MG	A	2068	1/1	0.83	0.24	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	3751	1/1	0.83	0.17	48,48,48,48	0
81	OHX	A	2134	7/7	0.83	0.12	215,218,228,290	0
82	MG	AR	3978	1/1	0.83	0.19	75,75,75,75	0
81	OHX	A	2135	7/7	0.83	0.10	222,229,241,301	0
81	OHX	sR	1979	7/7	0.83	0.11	198,203,212,286	0
82	MG	s4	302	1/1	0.83	0.17	73,73,73,73	0
81	OHX	sR	2171	7/7	0.83	0.14	191,200,205,281	0
82	MG	1	3918	1/1	0.83	0.39	78,78,78,78	0
82	MG	A	2092	1/1	0.83	0.32	76,76,76,76	0
81	OHX	1	4129	7/7	0.83	0.12	179,190,201,285	0
82	MG	CE	407	1/1	0.84	0.29	59,59,59,59	0
82	MG	A	2098	1/1	0.84	0.19	85,85,85,85	0
81	OHX	A	1944	7/7	0.84	0.15	180,182,186,246	0
82	MG	1	3846	1/1	0.84	0.36	74,74,74,74	0
82	MG	1	4046	1/1	0.84	0.27	61,61,61,61	0
81	OHX	sR	2005	7/7	0.84	0.13	189,193,197,268	0
82	MG	AR	3747	1/1	0.84	0.13	69,69,69,69	0
82	MG	AR	4064	1/1	0.84	0.13	64,64,64,64	0
82	MG	1	3853	1/1	0.84	0.22	84,84,84,84	0
82	MG	A	1979	1/1	0.84	0.13	70,70,70,70	0
82	MG	sR	2051	1/1	0.84	0.24	63,63,63,63	0
82	MG	sR	2055	1/1	0.84	0.26	76,76,76,76	0
82	MG	AR	4072	1/1	0.84	0.07	65,65,65,65	0
82	MG	1	3651	1/1	0.84	0.25	61,61,61,61	0
82	MG	A	1990	1/1	0.84	0.19	62,62,62,62	0
82	MG	A	1991	1/1	0.84	0.31	69,69,69,69	0
81	OHX	A	2145	7/7	0.84	0.14	183,192,199,274	0
82	MG	AR	3947	1/1	0.84	0.22	73,73,73,73	0
81	OHX	J	301	7/7	0.84	0.10	227,233,241,307	0
82	MG	1	3866	1/1	0.84	0.31	76,76,76,76	0
82	MG	1	3967	1/1	0.84	0.31	72,72,72,72	0
82	MG	1	3970	1/1	0.84	0.12	81,81,81,81	0
82	MG	sR	2095	1/1	0.84	0.23	76,76,76,76	0
82	MG	1	3770	1/1	0.84	0.17	63,63,63,63	0
82	MG	1	3978	1/1	0.84	0.20	64,64,64,64	0
82	MG	1	3771	1/1	0.84	0.25	65,65,65,65	0
82	MG	A	2026	1/1	0.84	0.10	88,88,88,88	0
82	MG	AR	4121	1/1	0.84	0.15	93,93,93,93	0
82	MG	A	2030	1/1	0.84	0.25	76,76,76,76	0
82	MG	AR	3965	1/1	0.84	0.20	64,64,64,64	0
82	MG	AR	3773	1/1	0.84	0.29	81,81,81,81	0
82	MG	AR	4126	1/1	0.84	0.15	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	sR	1963	7/7	0.84	0.16	155,158,167,227	0
82	MG	1	3692	1/1	0.84	0.38	88,88,88,88	0
81	OHX	sR	2016	7/7	0.84	0.15	141,147,167,229	0
82	MG	1	3804	1/1	0.84	0.41	55,55,55,55	0
82	MG	sR	2134	1/1	0.84	0.11	62,62,62,62	0
82	MG	AR	4139	1/1	0.84	0.37	63,63,63,63	0
82	MG	A	2046	1/1	0.84	0.16	78,78,78,78	0
82	MG	1	3895	1/1	0.84	0.30	91,91,91,91	0
82	MG	4	231	1/1	0.84	0.25	73,73,73,73	0
82	MG	AR	4152	1/1	0.84	0.44	64,64,64,64	0
82	MG	AR	3815	1/1	0.84	0.24	53,53,53,53	0
82	MG	4	232	1/1	0.84	0.11	55,55,55,55	0
82	MG	AR	3830	1/1	0.84	0.29	64,64,64,64	0
82	MG	1	3707	1/1	0.84	0.26	77,77,77,77	0
82	MG	n	201	1/1	0.84	0.13	71,71,71,71	0
82	MG	AR	4188	1/1	0.84	0.26	68,68,68,68	0
82	MG	1	3899	1/1	0.84	0.09	119,119,119,119	0
82	MG	1	3621	1/1	0.84	0.24	69,69,69,69	0
81	OHX	z	203	7/7	0.84	0.12	130,132,137,165	7
82	MG	sR	2160	1/1	0.84	0.35	69,69,69,69	0
82	MG	1	3922	1/1	0.84	0.20	52,52,52,52	0
82	MG	1	3730	1/1	0.84	0.27	43,43,43,43	0
81	OHX	AG	202	7/7	0.84	0.17	155,169,173,243	0
81	OHX	AR	3647	7/7	0.84	0.12	171,177,186,255	0
82	MG	1	3744	1/1	0.84	0.31	54,54,54,54	0
82	MG	1	4032	1/1	0.84	0.23	47,47,47,47	0
82	MG	1	3746	1/1	0.84	0.26	70,70,70,70	0
82	MG	AR	3775	1/1	0.85	0.09	45,45,45,45	0
82	MG	AR	3983	1/1	0.85	0.41	86,86,86,86	0
82	MG	1	3718	1/1	0.85	0.31	42,42,42,42	0
82	MG	1	3720	1/1	0.85	0.17	54,54,54,54	0
82	MG	1	3725	1/1	0.85	0.35	62,62,62,62	0
82	MG	4	220	1/1	0.85	0.30	70,70,70,70	0
81	OHX	sR	2173	7/7	0.85	0.20	130,137,142,166	7
81	OHX	1	3588	7/7	0.85	0.14	172,176,188,262	0
82	MG	AR	4008	1/1	0.85	0.18	68,68,68,68	0
81	OHX	sR	2004	7/7	0.85	0.13	194,196,202,266	0
82	MG	4	230	1/1	0.85	0.16	85,85,85,85	0
82	MG	1	3739	1/1	0.85	0.20	41,41,41,41	0
81	OHX	1	3589	7/7	0.85	0.19	155,161,167,248	0
81	OHX	AR	3637	7/7	0.85	0.15	164,171,187,255	0
82	MG	j	301	1/1	0.85	0.41	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	3846	1/1	0.85	0.29	51,51,51,51	0
82	MG	AR	4030	1/1	0.85	0.14	63,63,63,63	0
81	OHX	AR	3542	7/7	0.85	0.15	138,138,149,217	0
81	OHX	A	2127	7/7	0.85	0.13	181,182,190,256	0
81	OHX	AR	3670	7/7	0.85	0.11	160,172,179,249	0
82	MG	AR	4044	1/1	0.85	0.21	75,75,75,75	0
82	MG	sR	2070	1/1	0.85	0.27	70,70,70,70	0
81	OHX	A	2131	7/7	0.85	0.13	183,192,199,259	0
82	MG	AR	3869	1/1	0.85	0.35	51,51,51,51	0
81	OHX	1	4136	7/7	0.85	0.10	184,188,198,268	0
82	MG	AR	3889	1/1	0.85	0.36	61,61,61,61	0
82	MG	1	3630	1/1	0.85	0.28	52,52,52,52	0
82	MG	A	1996	1/1	0.85	0.23	69,69,69,69	0
81	OHX	AR	3578	7/7	0.85	0.14	162,168,181,251	0
82	MG	AF	201	1/1	0.85	0.28	57,57,57,57	0
82	MG	AR	4067	1/1	0.85	0.05	126,126,126,126	0
82	MG	A	2002	1/1	0.85	0.33	75,75,75,75	0
82	MG	sR	2105	1/1	0.85	0.22	67,67,67,67	0
82	MG	AR	3908	1/1	0.85	0.15	61,61,61,61	0
82	MG	1	3905	1/1	0.85	0.12	62,62,62,62	0
82	MG	1	3909	1/1	0.85	0.38	71,71,71,71	0
82	MG	AR	3917	1/1	0.85	0.37	79,79,79,79	0
82	MG	AR	4078	1/1	0.85	0.23	51,51,51,51	0
81	OHX	sR	2021	7/7	0.85	0.16	185,191,209,289	0
82	MG	AR	3921	1/1	0.85	0.14	57,57,57,57	0
82	MG	AR	3710	1/1	0.85	0.15	53,53,53,53	0
81	OHX	sR	2022	7/7	0.85	0.10	215,220,227,303	0
81	OHX	A	2140	7/7	0.85	0.15	172,177,180,248	0
82	MG	1	4040	1/1	0.85	0.35	60,60,60,60	0
82	MG	AR	3732	1/1	0.85	0.27	80,80,80,80	0
82	MG	AR	3936	1/1	0.85	0.17	54,54,54,54	0
81	OHX	A	2141	7/7	0.85	0.09	256,257,259,308	0
82	MG	1	3931	1/1	0.85	0.58	79,79,79,79	0
82	MG	1	3677	1/1	0.85	0.16	58,58,58,58	0
81	OHX	1	3567	7/7	0.85	0.17	157,164,168,250	0
81	OHX	1	3574	7/7	0.85	0.11	177,182,197,271	0
82	MG	1	3690	1/1	0.85	0.38	76,76,76,76	0
81	OHX	O	201	7/7	0.85	0.10	217,222,232,288	0
82	MG	1	3700	1/1	0.85	0.28	58,58,58,58	0
81	OHX	AR	3614	7/7	0.85	0.13	176,179,190,252	0
82	MG	A	2057	1/1	0.85	0.14	64,64,64,64	0
81	OHX	A	1952	7/7	0.85	0.14	186,189,203,261	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	4145	1/1	0.85	0.33	61,61,61,61	0
82	MG	AR	4147	1/1	0.85	0.27	46,46,46,46	0
82	MG	AR	3969	1/1	0.85	0.23	62,62,62,62	0
82	MG	A	2064	1/1	0.85	0.15	84,84,84,84	0
82	MG	1	3842	1/1	0.85	0.13	55,55,55,55	0
82	MG	1	4145	1/1	0.85	0.23	47,47,47,47	0
81	OHX	A	1961	7/7	0.85	0.10	200,208,216,276	0
81	OHX	1	3614	7/7	0.85	0.13	161,164,180,256	0
82	MG	c6	201	1/1	0.85	0.23	81,81,81,81	0
82	MG	A	2081	1/1	0.85	0.27	74,74,74,74	0
82	MG	AR	4164	1/1	0.85	0.38	67,67,67,67	0
82	MG	1	4031	1/1	0.86	0.20	62,62,62,62	0
82	MG	AR	4189	1/1	0.86	0.16	63,63,63,63	0
82	MG	AR	4191	1/1	0.86	0.17	70,70,70,70	0
82	MG	AK	101	1/1	0.86	0.33	61,61,61,61	0
81	OHX	AR	3655	7/7	0.86	0.14	164,171,184,253	0
81	OHX	AR	3596	7/7	0.86	0.12	174,182,189,261	0
82	MG	1	3836	1/1	0.86	0.14	56,56,56,56	0
81	OHX	1	3607	7/7	0.86	0.12	191,204,216,298	0
82	MG	AR	3905	1/1	0.86	0.26	72,72,72,72	0
81	OHX	sR	1991	7/7	0.86	0.13	151,154,162,226	0
82	MG	AT	219	1/1	0.86	0.23	64,64,64,64	0
81	OHX	sR	1997	7/7	0.86	0.14	174,182,193,256	0
82	MG	1	3732	1/1	0.86	0.30	42,42,42,42	0
82	MG	AT	227	1/1	0.86	0.23	72,72,72,72	0
82	MG	AR	4045	1/1	0.86	0.18	41,41,41,41	0
82	MG	AR	4046	1/1	0.86	0.40	80,80,80,80	0
81	OHX	1	3560	7/7	0.86	0.14	158,166,170,244	0
81	OHX	AR	3664	7/7	0.86	0.11	205,214,221,289	0
81	OHX	sR	2003	7/7	0.86	0.14	180,183,191,250	0
82	MG	sR	2043	1/1	0.86	0.26	72,72,72,72	0
82	MG	CM	201	1/1	0.86	0.31	77,77,77,77	0
82	MG	AR	4052	1/1	0.86	0.17	55,55,55,55	0
81	OHX	AR	3650	7/7	0.86	0.12	160,168,186,257	0
82	MG	CR	203	1/1	0.86	0.22	55,55,55,55	0
82	MG	CY	201	1/1	0.86	0.10	108,108,108,108	0
82	MG	1	3663	1/1	0.86	0.25	63,63,63,63	0
82	MG	sR	2074	1/1	0.86	0.18	49,49,49,49	0
81	OHX	A	2136	7/7	0.86	0.14	192,198,203,267	0
82	MG	AR	4063	1/1	0.86	0.12	52,52,52,52	0
81	OHX	A	1964	7/7	0.86	0.11	187,193,208,266	0
82	MG	A	1988	1/1	0.86	0.33	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	1	3762	1/1	0.86	0.39	53,53,53,53	0
81	OHX	AR	3633	7/7	0.86	0.13	160,165,175,247	0
81	OHX	sR	2010	7/7	0.86	0.14	145,153,156,232	0
82	MG	AR	3946	1/1	0.86	0.23	80,80,80,80	0
82	MG	1	3875	1/1	0.86	0.32	70,70,70,70	0
82	MG	1	3986	1/1	0.86	0.23	64,64,64,64	0
82	MG	AR	3770	1/1	0.86	0.35	41,41,41,41	0
82	MG	AR	4095	1/1	0.86	0.17	59,59,59,59	0
82	MG	sR	2110	1/1	0.86	0.17	80,80,80,80	0
82	MG	3	217	1/1	0.86	0.17	61,61,61,61	0
82	MG	A	2006	1/1	0.86	0.31	59,59,59,59	0
82	MG	A	2007	1/1	0.86	0.23	71,71,71,71	0
82	MG	1	3879	1/1	0.86	0.10	56,56,56,56	0
81	OHX	sR	2012	7/7	0.86	0.11	220,227,229,273	0
81	OHX	AR	3654	7/7	0.86	0.14	161,165,184,259	0
82	MG	AR	3961	1/1	0.86	0.27	81,81,81,81	0
82	MG	sR	2129	1/1	0.86	0.24	81,81,81,81	0
82	MG	1	3697	1/1	0.86	0.38	62,62,62,62	0
82	MG	AR	3963	1/1	0.86	0.25	57,57,57,57	0
82	MG	AR	3964	1/1	0.86	0.17	72,72,72,72	0
81	OHX	CG	302	7/7	0.86	0.10	215,218,224,290	0
82	MG	1	4004	1/1	0.86	0.30	72,72,72,72	0
82	MG	AR	4125	1/1	0.86	0.26	94,94,94,94	0
82	MG	AR	3970	1/1	0.86	0.08	73,73,73,73	0
82	MG	1	3794	1/1	0.86	0.37	56,56,56,56	0
82	MG	AR	3807	1/1	0.86	0.29	68,68,68,68	0
82	MG	1	4009	1/1	0.86	0.16	58,58,58,58	0
82	MG	1	3897	1/1	0.86	0.15	76,76,76,76	0
82	MG	1	3702	1/1	0.86	0.18	68,68,68,68	0
82	MG	AR	3825	1/1	0.86	0.38	70,70,70,70	0
82	MG	AR	4141	1/1	0.86	0.19	48,48,48,48	0
82	MG	AR	4142	1/1	0.86	0.17	46,46,46,46	0
82	MG	AR	3985	1/1	0.86	0.20	72,72,72,72	0
82	MG	A	2052	1/1	0.86	0.23	60,60,60,60	0
82	MG	1	3798	1/1	0.86	0.34	56,56,56,56	0
82	MG	sR	2156	1/1	0.86	0.38	71,71,71,71	0
82	MG	1	4018	1/1	0.86	0.16	79,79,79,79	0
81	OHX	s8	302	7/7	0.86	0.10	216,223,229,295	0
82	MG	1	4022	1/1	0.86	0.21	55,55,55,55	0
81	OHX	A	1975	7/7	0.86	0.12	168,174,180,242	0
81	OHX	c5	201	7/7	0.86	0.10	194,202,210,264	0
82	MG	6	203	1/1	0.86	0.39	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	U	201	7/7	0.86	0.12	218,223,227,290	0
82	MG	AR	4171	1/1	0.86	0.29	73,73,73,73	0
82	MG	1	3712	1/1	0.86	0.17	69,69,69,69	0
82	MG	d6	203	1/1	0.86	0.18	65,65,65,65	0
85	ZN	d7	101	1/1	0.86	0.15	202,202,202,202	0
82	MG	AR	3776	1/1	0.87	0.27	44,44,44,44	0
82	MG	AR	3781	1/1	0.87	0.28	42,42,42,42	0
81	OHX	sR	1989	7/7	0.87	0.12	157,158,163,241	0
82	MG	1	4037	1/1	0.87	0.30	42,42,42,42	0
82	MG	A	2024	1/1	0.87	0.15	67,67,67,67	0
81	OHX	A	1939	7/7	0.87	0.14	142,148,155,215	0
81	OHX	sR	1996	7/7	0.87	0.12	175,178,191,258	0
81	OHX	AR	3526	7/7	0.87	0.15	130,139,147,217	0
82	MG	1	3748	1/1	0.87	0.31	77,77,77,77	0
82	MG	1	3750	1/1	0.87	0.32	49,49,49,49	0
81	OHX	AR	3656	7/7	0.87	0.09	196,208,215,276	0
82	MG	A	2037	1/1	0.87	0.21	76,76,76,76	0
82	MG	AR	3816	1/1	0.87	0.29	52,52,52,52	0
82	MG	1	3903	1/1	0.87	0.21	83,83,83,83	0
81	OHX	A	1955	7/7	0.87	0.15	137,151,156,198	0
82	MG	AR	3829	1/1	0.87	0.38	50,50,50,50	0
81	OHX	1	3592	7/7	0.87	0.15	165,171,180,243	0
82	MG	1	4058	1/1	0.87	0.17	56,56,56,56	0
82	MG	1	3915	1/1	0.87	0.20	68,68,68,68	0
81	OHX	AR	3660	7/7	0.87	0.12	166,170,179,256	0
82	MG	AR	4076	1/1	0.87	0.23	75,75,75,75	0
82	MG	1	3919	1/1	0.87	0.14	55,55,55,55	0
82	MG	AR	4079	1/1	0.87	0.16	84,84,84,84	0
82	MG	A	2055	1/1	0.87	0.09	76,76,76,76	0
82	MG	1	3920	1/1	0.87	0.22	57,57,57,57	0
82	MG	AR	3863	1/1	0.87	0.32	43,43,43,43	0
82	MG	1	4083	1/1	0.87	0.24	68,68,68,68	0
81	OHX	1	3520	7/7	0.87	0.14	153,155,158,235	0
82	MG	1	4147	1/1	0.87	0.14	107,107,107,107	0
82	MG	1	3923	1/1	0.87	0.27	55,55,55,55	0
82	MG	A	2066	1/1	0.87	0.26	72,72,72,72	0
82	MG	A	2067	1/1	0.87	0.10	58,58,58,58	0
82	MG	AR	3873	1/1	0.87	0.16	82,82,82,82	0
82	MG	AR	4118	1/1	0.87	0.12	53,53,53,53	0
82	MG	AR	3877	1/1	0.87	0.27	69,69,69,69	0
82	MG	1	4152	1/1	0.87	0.18	76,76,76,76	0
81	OHX	AR	4175	7/7	0.87	0.12	147,156,162,237	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3631	1/1	0.87	0.14	64,64,64,64	0
82	MG	AR	4123	1/1	0.87	0.21	73,73,73,73	0
82	MG	AR	3902	1/1	0.87	0.15	60,60,60,60	0
82	MG	1	3633	1/1	0.87	0.26	48,48,48,48	0
81	OHX	1	3609	7/7	0.87	0.12	179,189,199,272	0
82	MG	1	3636	1/1	0.87	0.32	72,72,72,72	0
82	MG	1	3936	1/1	0.87	0.32	80,80,80,80	0
82	MG	AR	3909	1/1	0.87	0.38	72,72,72,72	0
82	MG	A	2097	1/1	0.87	0.29	71,71,71,71	0
82	MG	AR	4132	1/1	0.87	0.24	64,64,64,64	0
82	MG	1	3937	1/1	0.87	0.21	80,80,80,80	0
82	MG	AR	4135	1/1	0.87	0.34	71,71,71,71	0
82	MG	AR	4137	1/1	0.87	0.34	68,68,68,68	0
82	MG	AR	3913	1/1	0.87	0.25	65,65,65,65	0
82	MG	1	3789	1/1	0.87	0.24	46,46,46,46	0
81	OHX	sR	2009	7/7	0.87	0.10	171,184,192,262	0
81	OHX	1	4134	5/7	0.87	0.14	140,143,147,230	0
81	OHX	sR	2011	7/7	0.87	0.12	158,165,181,241	0
82	MG	1	3653	1/1	0.87	0.51	70,70,70,70	0
82	MG	sR	2045	1/1	0.87	0.17	63,63,63,63	0
81	OHX	A	1974	7/7	0.87	0.11	189,199,205,256	0
82	MG	1	3666	1/1	0.87	0.28	68,68,68,68	0
81	OHX	AR	3665	7/7	0.87	0.11	170,178,190,267	0
81	OHX	1	4135	7/7	0.87	0.15	176,180,189,262	0
81	OHX	AR	3642	7/7	0.87	0.12	147,154,160,244	0
82	MG	t	203	1/1	0.87	0.15	56,56,56,56	0
82	MG	1	3827	1/1	0.87	0.11	79,79,79,79	0
82	MG	1	3971	1/1	0.87	0.20	70,70,70,70	0
81	OHX	AR	3669	7/7	0.87	0.11	225,234,239,295	0
82	MG	1	3975	1/1	0.87	0.25	67,67,67,67	0
82	MG	AR	3954	1/1	0.87	0.18	60,60,60,60	0
82	MG	AB	201	1/1	0.87	0.28	66,66,66,66	0
82	MG	1	3834	1/1	0.87	0.26	68,68,68,68	0
82	MG	1	3980	1/1	0.87	0.21	62,62,62,62	0
81	OHX	AR	3643	7/7	0.87	0.13	180,191,201,267	0
81	OHX	AR	4203	7/7	0.87	0.12	163,179,185,271	0
82	MG	AR	3692	1/1	0.87	0.10	51,51,51,51	0
82	MG	1	3695	1/1	0.87	0.25	64,64,64,64	0
82	MG	1	3988	1/1	0.87	0.14	74,74,74,74	0
82	MG	AR	3708	1/1	0.87	0.28	64,64,64,64	0
82	MG	AR	3966	1/1	0.87	0.19	59,59,59,59	0
82	MG	AT	223	1/1	0.87	0.21	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	AR	4204	7/7	0.87	0.33	135,141,143,170	7
82	MG	AT	226	1/1	0.87	0.33	66,66,66,66	0
81	OHX	1	3559	7/7	0.87	0.14	143,146,159,226	0
82	MG	AR	3716	1/1	0.87	0.31	71,71,71,71	0
82	MG	CE	401	1/1	0.87	0.07	47,47,47,47	0
82	MG	sR	2127	1/1	0.87	0.15	60,60,60,60	0
82	MG	sR	2128	1/1	0.87	0.28	72,72,72,72	0
82	MG	AR	3972	1/1	0.87	0.33	59,59,59,59	0
82	MG	AR	3717	1/1	0.87	0.31	63,63,63,63	0
81	OHX	AS	3530	7/7	0.87	0.15	194,201,206,302	0
82	MG	AR	3721	1/1	0.87	0.15	62,62,62,62	0
82	MG	1	3847	1/1	0.87	0.14	58,58,58,58	0
82	MG	1	3850	1/1	0.87	0.29	52,52,52,52	0
82	MG	sR	2139	1/1	0.87	0.11	70,70,70,70	0
81	OHX	AR	3648	7/7	0.87	0.12	172,173,181,270	0
82	MG	CR	201	1/1	0.87	0.34	45,45,45,45	0
81	OHX	A	2142	7/7	0.87	0.19	138,141,146,174	7
82	MG	1	4012	1/1	0.87	0.26	68,68,68,68	0
82	MG	AR	3993	1/1	0.87	0.24	77,77,77,77	0
82	MG	DI	201	1/1	0.87	0.32	62,62,62,62	0
82	MG	1	4013	1/1	0.87	0.32	67,67,67,67	0
82	MG	1	4014	1/1	0.87	0.24	83,83,83,83	0
82	MG	A	1982	1/1	0.87	0.25	67,67,67,67	0
81	OHX	1	4142	7/7	0.87	0.11	191,205,217,301	0
81	OHX	sR	2028	7/7	0.87	0.11	182,188,196,261	0
82	MG	AR	4003	1/1	0.87	0.12	65,65,65,65	0
81	OHX	AR	3618	7/7	0.87	0.12	158,160,174,238	0
82	MG	AR	3762	1/1	0.87	0.12	69,69,69,69	0
81	OHX	AR	3652	7/7	0.87	0.11	173,180,185,267	0
81	OHX	AR	3678	7/7	0.87	0.10	222,226,233,281	0
82	MG	sR	2164	1/1	0.87	0.13	61,61,61,61	0
82	MG	AR	3765	1/1	0.87	0.20	51,51,51,51	0
82	MG	1	3724	1/1	0.87	0.31	42,42,42,42	0
81	OHX	1	3525	7/7	0.87	0.13	143,145,158,222	0
81	OHX	CK	201	7/7	0.87	0.11	172,177,183,260	0
82	MG	1	3876	1/1	0.87	0.21	71,71,71,71	0
81	OHX	sR	1980	7/7	0.87	0.14	144,150,167,240	0
82	MG	d3	201	1/1	0.87	0.31	70,70,70,70	0
81	OHX	1	3590	7/7	0.87	0.15	165,170,179,249	0
82	MG	d6	201	1/1	0.87	0.29	63,63,63,63	0
82	MG	A	2010	1/1	0.87	0.36	69,69,69,69	0
82	MG	A	2011	1/1	0.87	0.27	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	3824	1/1	0.88	0.33	54,54,54,54	0
82	MG	AR	4172	1/1	0.88	0.11	56,56,56,56	0
82	MG	AR	4177	1/1	0.88	0.22	60,60,60,60	0
82	MG	AR	3997	1/1	0.88	0.34	66,66,66,66	0
82	MG	AR	4187	1/1	0.88	0.18	41,41,41,41	0
81	OHX	AR	3635	7/7	0.88	0.11	171,180,187,257	0
82	MG	AR	3827	1/1	0.88	0.35	51,51,51,51	0
81	OHX	1	3543	7/7	0.88	0.18	148,158,165,249	0
82	MG	AR	4192	1/1	0.88	0.17	45,45,45,45	0
81	OHX	1	3554	7/7	0.88	0.14	165,169,174,256	0
82	MG	1	3743	1/1	0.88	0.24	55,55,55,55	0
81	OHX	sR	2006	7/7	0.88	0.11	181,190,204,266	0
82	MG	AR	4016	1/1	0.88	0.21	67,67,67,67	0
82	MG	AR	4017	1/1	0.88	0.10	60,60,60,60	0
82	MG	r	301	1/1	0.88	0.23	49,49,49,49	0
82	MG	AR	3844	1/1	0.88	0.29	43,43,43,43	0
82	MG	AT	218	1/1	0.88	0.27	49,49,49,49	0
81	OHX	A	2100	7/7	0.88	0.12	177,179,186,251	0
81	OHX	A	2116	7/7	0.88	0.11	170,177,186,247	0
81	OHX	1	3504	7/7	0.88	0.17	129,134,144,226	0
81	OHX	A	2126	7/7	0.88	0.10	195,199,207,274	0
81	OHX	1	3586	7/7	0.88	0.11	158,166,181,253	0
82	MG	sR	2031	1/1	0.88	0.15	55,55,55,55	0
81	OHX	1	4137	7/7	0.88	0.11	170,175,188,259	0
81	OHX	1	4138	7/7	0.88	0.13	138,138,141,176	7
82	MG	sR	2037	1/1	0.88	0.20	85,85,85,85	0
82	MG	CD	301	1/1	0.88	0.40	62,62,62,62	0
82	MG	1	3650	1/1	0.88	0.27	62,62,62,62	0
81	OHX	A	2132	7/7	0.88	0.12	178,188,192,264	0
82	MG	sR	2050	1/1	0.88	0.28	61,61,61,61	0
82	MG	AR	3884	1/1	0.88	0.19	61,61,61,61	0
81	OHX	A	2133	7/7	0.88	0.11	220,224,229,297	0
82	MG	sR	2056	1/1	0.88	0.22	52,52,52,52	0
82	MG	1	3654	1/1	0.88	0.20	68,68,68,68	0
82	MG	CL	303	1/1	0.88	0.22	43,43,43,43	0
82	MG	sR	2064	1/1	0.88	0.20	73,73,73,73	0
82	MG	1	3778	1/1	0.88	0.36	60,60,60,60	0
81	OHX	1	3605	7/7	0.88	0.12	157,172,185,260	0
82	MG	1	3787	1/1	0.88	0.28	51,51,51,51	0
81	OHX	AR	3675	7/7	0.88	0.17	189,190,204,300	0
82	MG	AR	4060	1/1	0.88	0.30	70,70,70,70	0
81	OHX	AR	3587	7/7	0.88	0.13	146,148,152,238	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	DA	201	1/1	0.88	0.15	67,67,67,67	0
82	MG	sR	2088	1/1	0.88	0.19	77,77,77,77	0
82	MG	1	3913	1/1	0.88	0.31	76,76,76,76	0
82	MG	sR	2090	1/1	0.88	0.11	73,73,73,73	0
82	MG	1	3790	1/1	0.88	0.29	51,51,51,51	0
82	MG	AR	4065	1/1	0.88	0.18	70,70,70,70	0
81	OHX	AR	3593	7/7	0.88	0.15	135,141,151,207	0
82	MG	sR	2096	1/1	0.88	0.23	60,60,60,60	0
81	OHX	CE	404	7/7	0.88	0.09	195,201,214,284	0
81	OHX	1	3579	7/7	0.88	0.12	149,158,165,224	0
81	OHX	1	4105	6/7	0.88	0.17	111,116,120,186	0
81	OHX	1	3608[A]	7/7	0.88	0.20	132,135,141,177	7
82	MG	1	3924	1/1	0.88	0.11	72,72,72,72	0
82	MG	AR	3733	1/1	0.88	0.10	62,62,62,62	0
82	MG	1	3815	1/1	0.88	0.34	71,71,71,71	0
82	MG	AR	4080	1/1	0.88	0.16	56,56,56,56	0
81	OHX	AR	3613	7/7	0.88	0.12	147,148,155,235	0
82	MG	AR	3743	1/1	0.88	0.23	41,41,41,41	0
82	MG	AR	3930	1/1	0.88	0.29	61,61,61,61	0
82	MG	AR	3933	1/1	0.88	0.19	41,41,41,41	0
81	OHX	1	4123	7/7	0.88	0.14	170,175,184,263	0
81	OHX	A	1943	7/7	0.88	0.13	181,188,194,253	0
82	MG	AR	4113	1/1	0.88	0.26	73,73,73,73	0
82	MG	1	3934	1/1	0.88	0.29	67,67,67,67	0
81	OHX	sR	1972	7/7	0.88	0.11	158,168,172,227	0
82	MG	1	3824	1/1	0.88	0.21	62,62,62,62	0
82	MG	1	4055	1/1	0.88	0.29	68,68,68,68	0
82	MG	A	2019	1/1	0.88	0.08	70,70,70,70	0
82	MG	AR	3760	1/1	0.88	0.23	43,43,43,43	0
81	OHX	1	3608[B]	7/7	0.88	0.20	132,136,138,169	7
82	MG	1	3943	1/1	0.88	0.13	61,61,61,61	0
82	MG	1	3946	1/1	0.88	0.10	55,55,55,55	0
82	MG	1	3831	1/1	0.88	0.29	80,80,80,80	0
81	OHX	A	1949	7/7	0.88	0.12	189,190,195,258	0
82	MG	1	3951	1/1	0.88	0.18	61,61,61,61	0
81	OHX	AR	3623	7/7	0.88	0.11	166,175,187,245	0
82	MG	A	2034	1/1	0.88	0.11	71,71,71,71	0
81	OHX	AR	3688	7/7	0.88	0.12	173,177,185,281	0
82	MG	1	3839	1/1	0.88	0.20	90,90,90,90	0
81	OHX	AR	3626	7/7	0.88	0.11	148,159,167,245	0
82	MG	1	3715	1/1	0.88	0.36	54,54,54,54	0
82	MG	AR	4136	1/1	0.88	0.26	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	3778	1/1	0.88	0.29	76,76,76,76	0
81	OHX	1	4128	7/7	0.88	0.11	145,160,169,252	0
81	OHX	sR	2178	7/7	0.88	0.10	222,230,236,314	0
82	MG	1	3723	1/1	0.88	0.31	44,44,44,44	0
82	MG	sR	2165	1/1	0.88	0.16	66,66,66,66	0
82	MG	sR	2166	1/1	0.88	0.11	58,58,58,58	0
82	MG	3	213	1/1	0.88	0.09	65,65,65,65	0
82	MG	AR	3787	1/1	0.88	0.25	45,45,45,45	0
81	OHX	4	215	7/7	0.88	0.13	165,169,180,262	0
82	MG	s8	303	1/1	0.88	0.17	63,63,63,63	0
81	OHX	1	3580	7/7	0.88	0.14	157,163,168,240	0
82	MG	AR	3806	1/1	0.88	0.32	45,45,45,45	0
82	MG	1	3972	1/1	0.88	0.24	74,74,74,74	0
82	MG	c8	202	1/1	0.88	0.43	79,79,79,79	0
82	MG	AR	4156	1/1	0.88	0.17	52,52,52,52	0
81	OHX	1	3539	7/7	0.88	0.16	142,147,150,225	0
81	OHX	sR	2002	7/7	0.88	0.14	166,168,176,259	0
82	MG	1	3856	1/1	0.88	0.16	48,48,48,48	0
82	MG	1	3979	1/1	0.88	0.15	65,65,65,65	0
82	MG	1	3864	1/1	0.89	0.08	60,60,60,60	0
81	OHX	A	1967	7/7	0.89	0.12	178,182,189,251	0
82	MG	AR	3893	1/1	0.89	0.27	61,61,61,61	0
82	MG	AR	3894	1/1	0.89	0.11	64,64,64,64	0
82	MG	A	2043	1/1	0.89	0.14	76,76,76,76	0
81	OHX	AR	3659	7/7	0.89	0.15	145,151,157,233	0
81	OHX	A	1969	7/7	0.89	0.12	153,155,163,208	0
82	MG	1	3870	1/1	0.89	0.12	74,74,74,74	0
82	MG	1	3622	1/1	0.89	0.19	49,49,49,49	0
82	MG	x	204	1/1	0.89	0.36	57,57,57,57	0
82	MG	x	207	1/1	0.89	0.39	89,89,89,89	0
82	MG	1	3989	1/1	0.89	0.20	68,68,68,68	0
81	OHX	1	3576	7/7	0.89	0.09	191,192,203,265	0
82	MG	A	2056	1/1	0.89	0.10	83,83,83,83	0
82	MG	1	3873	1/1	0.89	0.37	67,67,67,67	0
82	MG	1	3995	1/1	0.89	0.42	50,50,50,50	0
82	MG	AR	3915	1/1	0.89	0.25	71,71,71,71	0
82	MG	1	3997	1/1	0.89	0.20	55,55,55,55	0
82	MG	1	3998	1/1	0.89	0.17	64,64,64,64	0
81	OHX	AR	3537	7/7	0.89	0.12	143,148,158,214	0
81	OHX	1	4132	7/7	0.89	0.09	230,235,238,284	0
81	OHX	AR	3551	7/7	0.89	0.12	143,146,158,232	0
82	MG	AR	3697	1/1	0.89	0.19	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	3926	1/1	0.89	0.30	69,69,69,69	0
82	MG	A	2070	1/1	0.89	0.15	85,85,85,85	0
82	MG	A	2071	1/1	0.89	0.14	75,75,75,75	0
81	OHX	AR	3554	7/7	0.89	0.15	128,130,137,212	0
82	MG	AR	3701	1/1	0.89	0.19	53,53,53,53	0
82	MG	A	2080	1/1	0.89	0.41	67,67,67,67	0
82	MG	AR	3932	1/1	0.89	0.34	60,60,60,60	0
82	MG	1	3890	1/1	0.89	0.13	50,50,50,50	0
82	MG	1	4010	1/1	0.89	0.21	73,73,73,73	0
82	MG	AR	4144	1/1	0.89	0.25	41,41,41,41	0
81	OHX	AR	3632	7/7	0.89	0.10	180,188,200,270	0
81	OHX	1	4068	7/7	0.89	0.14	135,136,149,221	0
81	OHX	1	3507	7/7	0.89	0.13	118,126,130,190	0
81	OHX	1	3604	7/7	0.89	0.11	204,208,214,287	0
82	MG	AR	3948	1/1	0.89	0.15	68,68,68,68	0
82	MG	AR	4154	1/1	0.89	0.28	70,70,70,70	0
82	MG	1	3769	1/1	0.89	0.27	44,44,44,44	0
82	MG	AR	4158	1/1	0.89	0.33	75,75,75,75	0
82	MG	AR	3720	1/1	0.89	0.16	50,50,50,50	0
81	OHX	AR	3591	7/7	0.89	0.13	131,136,146,219	0
81	OHX	AR	3592	6/7	0.89	0.11	155,161,166,245	0
82	MG	AR	3730	1/1	0.89	0.21	65,65,65,65	0
82	MG	AR	3957	1/1	0.89	0.36	61,61,61,61	0
81	OHX	1	3591	7/7	0.89	0.11	172,176,185,258	0
82	MG	1	4021	1/1	0.89	0.14	71,71,71,71	0
81	OHX	sR	2015	7/7	0.89	0.10	195,203,208,267	0
81	OHX	AR	3595	7/7	0.89	0.10	167,174,180,242	0
81	OHX	CG	301	6/7	0.89	0.10	170,175,188,243	0
82	MG	AR	3744	1/1	0.89	0.32	52,52,52,52	0
82	MG	sR	2048	1/1	0.89	0.20	57,57,57,57	0
82	MG	1	3669	1/1	0.89	0.43	76,76,76,76	0
81	OHX	1	3571	7/7	0.89	0.10	147,153,167,237	0
82	MG	AR	4209	1/1	0.89	0.17	94,94,94,94	0
82	MG	1	4027	1/1	0.89	0.16	42,42,42,42	0
81	OHX	1	4125	7/7	0.89	0.14	123,129,144,227	0
82	MG	1	3680	1/1	0.89	0.18	66,66,66,66	0
82	MG	sR	2061	1/1	0.89	0.28	50,50,50,50	0
82	MG	1	3921	1/1	0.89	0.28	78,78,78,78	0
82	MG	1	4038	1/1	0.89	0.28	56,56,56,56	0
82	MG	1	3681	1/1	0.89	0.18	61,61,61,61	0
82	MG	sR	2073	1/1	0.89	0.25	58,58,58,58	0
82	MG	AS	3529	1/1	0.89	0.19	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	sR	2076	1/1	0.89	0.16	68,68,68,68	0
82	MG	sR	2079	1/1	0.89	0.31	51,51,51,51	0
81	OHX	AR	3644	7/7	0.89	0.18	150,158,167,250	0
82	MG	1	3686	1/1	0.89	0.31	42,42,42,42	0
82	MG	1	3926	1/1	0.89	0.18	56,56,56,56	0
82	MG	AT	220	1/1	0.89	0.25	60,60,60,60	0
82	MG	sR	2087	1/1	0.89	0.15	59,59,59,59	0
82	MG	1	3927	1/1	0.89	0.14	76,76,76,76	0
81	OHX	AR	3646	7/7	0.89	0.09	181,187,193,279	0
81	OHX	1	4140	7/7	0.89	0.18	105,106,109,139	7
81	OHX	AR	3600	7/7	0.89	0.14	160,164,173,221	0
81	OHX	AR	3602	7/7	0.89	0.11	166,170,181,235	0
81	OHX	AR	3603	7/7	0.89	0.12	118,134,140,226	0
81	OHX	e	102	7/7	0.89	0.10	202,204,212,283	0
82	MG	1	3825	1/1	0.89	0.20	66,66,66,66	0
82	MG	sR	2102	1/1	0.89	0.17	70,70,70,70	0
82	MG	sR	2103	1/1	0.89	0.11	75,75,75,75	0
82	MG	CE	406	1/1	0.89	0.23	62,62,62,62	0
82	MG	1	4060	1/1	0.89	0.12	52,52,52,52	0
82	MG	1	4062	1/1	0.89	0.24	72,72,72,72	0
82	MG	AR	4006	1/1	0.89	0.14	61,61,61,61	0
81	OHX	A	1950	7/7	0.89	0.11	172,180,185,241	0
81	OHX	AR	3605	7/7	0.89	0.11	160,166,175,238	0
82	MG	sR	2115	1/1	0.89	0.10	71,71,71,71	0
82	MG	sR	2117	1/1	0.89	0.18	62,62,62,62	0
82	MG	1	4074	1/1	0.89	0.28	63,63,63,63	0
82	MG	AR	3795	1/1	0.89	0.34	45,45,45,45	0
82	MG	1	4078	1/1	0.89	0.21	42,42,42,42	0
82	MG	CQ	205	1/1	0.89	0.24	50,50,50,50	0
81	OHX	sR	1976	7/7	0.89	0.10	177,186,196,243	0
82	MG	CR	202	1/1	0.89	0.16	74,74,74,74	0
82	MG	1	3947	1/1	0.89	0.18	71,71,71,71	0
82	MG	CX	203	1/1	0.89	0.31	43,43,43,43	0
82	MG	1	4084	1/1	0.89	0.10	79,79,79,79	0
82	MG	1	4086	1/1	0.89	0.15	91,91,91,91	0
81	OHX	sR	2170	7/7	0.89	0.12	156,166,171,233	0
82	MG	AR	4029	1/1	0.89	0.18	66,66,66,66	0
82	MG	1	3710	1/1	0.89	0.34	44,44,44,44	0
81	OHX	sR	1977	7/7	0.89	0.14	151,156,164,219	0
82	MG	A	1980	1/1	0.89	0.29	69,69,69,69	0
82	MG	AR	4038	1/1	0.89	0.17	50,50,50,50	0
81	OHX	AR	3608	7/7	0.89	0.17	145,149,163,239	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	A	1959	7/7	0.89	0.10	175,177,190,248	0
81	OHX	sR	1984	7/7	0.89	0.11	170,181,186,246	0
81	OHX	1	3551	7/7	0.89	0.13	121,131,149,214	0
81	OHX	1	3563	7/7	0.89	0.12	162,164,175,234	0
82	MG	3	216	1/1	0.89	0.08	81,81,81,81	0
82	MG	1	3960	1/1	0.89	0.20	60,60,60,60	0
82	MG	sR	2151	1/1	0.89	0.24	68,68,68,68	0
82	MG	1	3961	1/1	0.89	0.13	78,78,78,78	0
82	MG	AR	3842	1/1	0.89	0.30	53,53,53,53	0
82	MG	4	217	1/1	0.89	0.35	68,68,68,68	0
81	OHX	AR	3616	7/7	0.89	0.10	184,189,198,274	0
82	MG	AR	3847	1/1	0.89	0.33	52,52,52,52	0
82	MG	AR	3849	1/1	0.89	0.36	47,47,47,47	0
82	MG	AR	3855	1/1	0.89	0.35	54,54,54,54	0
81	OHX	s4	301	7/7	0.89	0.12	188,189,203,267	0
82	MG	1	3726	1/1	0.89	0.31	47,47,47,47	0
82	MG	1	3729	1/1	0.89	0.36	64,64,64,64	0
82	MG	1	3854	1/1	0.89	0.10	70,70,70,70	0
82	MG	AR	4070	1/1	0.89	0.14	61,61,61,61	0
82	MG	AR	3866	1/1	0.89	0.40	51,51,51,51	0
81	OHX	sR	1993	7/7	0.89	0.09	194,197,198,261	0
82	MG	1	3857	1/1	0.89	0.38	63,63,63,63	0
81	OHX	sR	1995	7/7	0.89	0.09	226,229,238,302	0
82	MG	AR	3875	1/1	0.89	0.37	68,68,68,68	0
82	MG	AR	3876	1/1	0.89	0.13	53,53,53,53	0
81	OHX	AR	3617	7/7	0.89	0.12	169,173,184,256	0
82	MG	d3	202	1/1	0.89	0.35	67,67,67,67	0
82	MG	AR	3878	1/1	0.89	0.27	43,43,43,43	0
82	MG	AR	4090	1/1	0.89	0.29	75,75,75,75	0
82	MG	AR	4094	1/1	0.89	0.16	89,89,89,89	0
83	SPD	AR	4206	10/10	0.89	0.20	45,49,50,52	0
82	MG	l	401	1/1	0.89	0.34	47,47,47,47	0
81	OHX	1	3542	7/7	0.90	0.12	144,153,164,222	0
82	MG	AR	4180	1/1	0.90	0.26	66,66,66,66	0
82	MG	AR	3874	1/1	0.90	0.20	62,62,62,62	0
82	MG	AR	4186	1/1	0.90	0.32	69,69,69,69	0
82	MG	AR	4015	1/1	0.90	0.27	70,70,70,70	0
82	MG	1	3892	1/1	0.90	0.30	72,72,72,72	0
82	MG	A	2078	1/1	0.90	0.13	64,64,64,64	0
82	MG	1	3643	1/1	0.90	0.12	53,53,53,53	0
82	MG	AR	3722	1/1	0.90	0.31	69,69,69,69	0
82	MG	A	2084	1/1	0.90	0.28	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	4021	1/1	0.90	0.25	63,63,63,63	0
82	MG	AR	4193	1/1	0.90	0.18	71,71,71,71	0
82	MG	1	4079	1/1	0.90	0.19	64,64,64,64	0
82	MG	AR	3880	1/1	0.90	0.25	53,53,53,53	0
82	MG	1	3982	1/1	0.90	0.21	69,69,69,69	0
81	OHX	A	1954	7/7	0.90	0.11	144,152,166,227	0
82	MG	1	3649	1/1	0.90	0.28	61,61,61,61	0
82	MG	AS	3522	1/1	0.90	0.10	82,82,82,82	0
82	MG	1	3820	1/1	0.90	0.16	45,45,45,45	0
82	MG	AR	4031	1/1	0.90	0.18	56,56,56,56	0
82	MG	AS	3528	1/1	0.90	0.17	56,56,56,56	0
82	MG	AR	4032	1/1	0.90	0.10	54,54,54,54	0
81	OHX	AR	3666	7/7	0.90	0.10	175,178,188,258	0
82	MG	X	201	1/1	0.90	0.11	58,58,58,58	0
82	MG	AR	3896	1/1	0.90	0.26	56,56,56,56	0
82	MG	AR	4039	1/1	0.90	0.17	76,76,76,76	0
82	MG	sR	2030	1/1	0.90	0.19	53,53,53,53	0
82	MG	AR	4040	1/1	0.90	0.45	81,81,81,81	0
82	MG	1	3727	1/1	0.90	0.46	66,66,66,66	0
82	MG	1	4148	1/1	0.90	0.07	111,111,111,111	0
82	MG	AR	4043	1/1	0.90	0.18	109,109,109,109	0
82	MG	1	3823	1/1	0.90	0.10	67,67,67,67	0
81	OHX	AR	3581	7/7	0.90	0.12	144,152,162,228	0
82	MG	1	3906	1/1	0.90	0.12	55,55,55,55	0
82	MG	sR	2046	1/1	0.90	0.29	51,51,51,51	0
82	MG	AR	4047	1/1	0.90	0.30	81,81,81,81	0
82	MG	3	207	1/1	0.90	0.18	61,61,61,61	0
82	MG	CE	402	1/1	0.90	0.28	52,52,52,52	0
82	MG	CE	405	1/1	0.90	0.33	42,42,42,42	0
81	OHX	AR	3651	7/7	0.90	0.12	151,153,166,247	0
82	MG	sR	2057	1/1	0.90	0.31	87,87,87,87	0
82	MG	sR	2058	1/1	0.90	0.12	79,79,79,79	0
81	OHX	1	3572	7/7	0.90	0.09	160,176,182,239	0
82	MG	AR	3757	1/1	0.90	0.23	66,66,66,66	0
82	MG	1	3829	1/1	0.90	0.11	64,64,64,64	0
81	OHX	AR	3588	7/7	0.90	0.13	165,166,172,266	0
81	OHX	AR	3639	7/7	0.90	0.13	142,144,151,243	0
82	MG	sR	2069	1/1	0.90	0.31	62,62,62,62	0
82	MG	4	203	1/1	0.90	0.10	65,65,65,65	0
82	MG	sR	2071	1/1	0.90	0.28	65,65,65,65	0
82	MG	sR	2072	1/1	0.90	0.22	49,49,49,49	0
81	OHX	AR	3589	6/7	0.90	0.16	133,145,147,221	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3670	1/1	0.90	0.22	42,42,42,42	0
82	MG	sR	2075	1/1	0.90	0.20	69,69,69,69	0
82	MG	4	219	1/1	0.90	0.23	72,72,72,72	0
82	MG	sR	2078	1/1	0.90	0.18	53,53,53,53	0
82	MG	AR	4066	1/1	0.90	0.12	73,73,73,73	0
81	OHX	AR	3619	7/7	0.90	0.09	173,184,189,237	0
82	MG	AR	4068	1/1	0.90	0.28	69,69,69,69	0
82	MG	CR	205	1/1	0.90	0.14	68,68,68,68	0
81	OHX	1	3506	7/7	0.90	0.14	111,121,143,197	0
81	OHX	sR	1961	7/7	0.90	0.15	127,135,144,201	0
82	MG	AR	3929	1/1	0.90	0.25	49,49,49,49	0
82	MG	DC	202	1/1	0.90	0.21	64,64,64,64	0
81	OHX	1	3570	7/7	0.90	0.08	201,206,212,264	0
82	MG	sR	2091	1/1	0.90	0.19	74,74,74,74	0
82	MG	4	229	1/1	0.90	0.17	68,68,68,68	0
82	MG	AR	3777	1/1	0.90	0.34	54,54,54,54	0
82	MG	AR	3934	1/1	0.90	0.11	50,50,50,50	0
82	MG	1	3752	1/1	0.90	0.07	42,42,42,42	0
81	OHX	CL	302[A]	7/7	0.90	0.29	122,129,137,147	7
82	MG	AR	3937	1/1	0.90	0.23	59,59,59,59	0
82	MG	AR	4088	1/1	0.90	0.13	60,60,60,60	0
81	OHX	CL	302[B]	7/7	0.90	0.29	127,130,140,179	7
82	MG	AR	3944	1/1	0.90	0.23	60,60,60,60	0
81	OHX	AR	4199	7/7	0.90	0.09	174,176,182,262	0
81	OHX	c8	201	7/7	0.90	0.10	168,179,184,232	0
82	MG	AR	4101	1/1	0.90	0.10	69,69,69,69	0
81	OHX	A	1938	7/7	0.90	0.14	139,147,151,222	0
82	MG	AR	3790	1/1	0.90	0.23	49,49,49,49	0
82	MG	sR	2116	1/1	0.90	0.12	78,78,78,78	0
82	MG	1	3618	1/1	0.90	0.27	50,50,50,50	0
82	MG	1	3766	1/1	0.90	0.25	42,42,42,42	0
82	MG	1	3767	1/1	0.90	0.34	51,51,51,51	0
82	MG	sR	2120	1/1	0.90	0.17	65,65,65,65	0
82	MG	AR	4117	1/1	0.90	0.22	47,47,47,47	0
82	MG	AR	3803	1/1	0.90	0.29	45,45,45,45	0
82	MG	1	3696	1/1	0.90	0.19	63,63,63,63	0
82	MG	sR	2125	1/1	0.90	0.08	64,64,64,64	0
82	MG	1	3945	1/1	0.90	0.12	49,49,49,49	0
82	MG	w	201	1/1	0.90	0.27	89,89,89,89	0
82	MG	A	2013	1/1	0.90	0.22	73,73,73,73	0
82	MG	A	2016	1/1	0.90	0.21	76,76,76,76	0
81	OHX	sR	2017	7/7	0.90	0.12	163,164,173,262	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	sR	2132	1/1	0.90	0.17	68,68,68,68	0
81	OHX	AR	3676	7/7	0.90	0.09	172,178,193,266	0
82	MG	x	206	1/1	0.90	0.28	61,61,61,61	0
82	MG	sR	2135	1/1	0.90	0.32	67,67,67,67	0
82	MG	A	2021	1/1	0.90	0.17	69,69,69,69	0
82	MG	A	2022	1/1	0.90	0.30	64,64,64,64	0
82	MG	sR	2140	1/1	0.90	0.29	66,66,66,66	0
82	MG	AR	3820	1/1	0.90	0.25	51,51,51,51	0
81	OHX	A	1940	7/7	0.90	0.12	163,166,171,231	0
81	OHX	A	1942	7/7	0.90	0.13	145,148,152,220	0
82	MG	AR	3968	1/1	0.90	0.23	66,66,66,66	0
81	OHX	sR	1987	7/7	0.90	0.10	162,169,181,247	0
82	MG	1	3629	1/1	0.90	0.29	64,64,64,64	0
81	OHX	A	2129	7/7	0.90	0.10	172,180,192,257	0
81	OHX	AR	3527	7/7	0.90	0.13	98,105,118,174	0
82	MG	AR	3974	1/1	0.90	0.23	81,81,81,81	0
82	MG	AR	3975	1/1	0.90	0.29	64,64,64,64	0
82	MG	AR	4138	1/1	0.90	0.18	55,55,55,55	0
81	OHX	AR	3594	7/7	0.90	0.11	141,142,148,215	0
82	MG	1	3874	1/1	0.90	0.27	42,42,42,42	0
82	MG	AR	3841	1/1	0.90	0.18	42,42,42,42	0
82	MG	1	3796	1/1	0.90	0.27	45,45,45,45	0
82	MG	A	2044	1/1	0.90	0.20	80,80,80,80	0
81	OHX	AR	3611	7/7	0.90	0.10	154,171,175,231	0
82	MG	AR	3696	1/1	0.90	0.26	66,66,66,66	0
82	MG	AR	4146	1/1	0.90	0.28	42,42,42,42	0
82	MG	AR	3986	1/1	0.90	0.19	56,56,56,56	0
82	MG	A	2049	1/1	0.90	0.12	58,58,58,58	0
82	MG	s1	302	1/1	0.90	0.14	86,86,86,86	0
82	MG	A	2050	1/1	0.90	0.12	81,81,81,81	0
82	MG	1	3878	1/1	0.90	0.16	58,58,58,58	0
82	MG	1	3716	1/1	0.90	0.22	47,47,47,47	0
82	MG	AR	3992	1/1	0.90	0.28	77,77,77,77	0
82	MG	c1	201	1/1	0.90	0.25	68,68,68,68	0
82	MG	1	3880	1/1	0.90	0.26	72,72,72,72	0
82	MG	1	3881	1/1	0.90	0.16	69,69,69,69	0
82	MG	AR	3862	1/1	0.90	0.30	40,40,40,40	0
82	MG	1	3883	1/1	0.90	0.19	60,60,60,60	0
82	MG	1	3887	1/1	0.90	0.28	61,61,61,61	0
82	MG	AR	3711	1/1	0.90	0.29	60,60,60,60	0
81	OHX	AR	3612	7/7	0.90	0.14	134,145,157,232	0
82	MG	AR	4167	1/1	0.90	0.20	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	4064	1/1	0.90	0.32	64,64,64,64	0
82	MG	1	3811	1/1	0.90	0.14	61,61,61,61	0
85	ZN	e1	501	1/1	0.90	0.14	144,144,144,144	0
81	OHX	3	203	7/7	0.91	0.11	144,148,156,216	0
82	MG	A	2082	1/1	0.91	0.36	56,56,56,56	0
81	OHX	sR	1994	7/7	0.91	0.10	162,167,174,232	0
82	MG	1	4066	1/1	0.91	0.35	65,65,65,65	0
82	MG	1	3807	1/1	0.91	0.23	41,41,41,41	0
81	OHX	3	205	7/7	0.91	0.10	152,155,158,210	0
82	MG	AS	3513	1/1	0.91	0.16	62,62,62,62	0
82	MG	A	2090	1/1	0.91	0.10	74,74,74,74	0
82	MG	AR	3725	1/1	0.91	0.24	42,42,42,42	0
82	MG	1	3812	1/1	0.91	0.13	61,61,61,61	0
82	MG	AS	3518	1/1	0.91	0.18	80,80,80,80	0
82	MG	AR	3728	1/1	0.91	0.12	46,46,46,46	0
82	MG	AS	3520	1/1	0.91	0.14	67,67,67,67	0
82	MG	AR	4028	1/1	0.91	0.09	59,59,59,59	0
82	MG	AR	3881	1/1	0.91	0.08	48,48,48,48	0
81	OHX	1	4116	7/7	0.91	0.10	141,152,159,216	0
82	MG	1	3721	1/1	0.91	0.21	46,46,46,46	0
82	MG	A	2151	1/1	0.91	0.08	68,68,68,68	0
82	MG	AR	3888	1/1	0.91	0.30	61,61,61,61	0
82	MG	AT	204	1/1	0.91	0.16	82,82,82,82	0
82	MG	1	3893	1/1	0.91	0.38	65,65,65,65	0
82	MG	AR	3890	1/1	0.91	0.24	86,86,86,86	0
82	MG	AR	3736	1/1	0.91	0.15	60,60,60,60	0
81	OHX	AR	3622	7/7	0.91	0.08	193,195,204,265	0
82	MG	sR	2034	1/1	0.91	0.24	56,56,56,56	0
81	OHX	A	1951	7/7	0.91	0.10	163,167,177,227	0
81	OHX	1	3512	7/7	0.91	0.12	132,137,143,204	0
82	MG	sR	2038	1/1	0.91	0.25	59,59,59,59	0
82	MG	sR	2039	1/1	0.91	0.17	85,85,85,85	0
82	MG	sR	2040	1/1	0.91	0.33	60,60,60,60	0
82	MG	AR	3901	1/1	0.91	0.20	56,56,56,56	0
81	OHX	AR	3597	7/7	0.91	0.12	134,135,145,208	0
82	MG	AR	3745	1/1	0.91	0.23	54,54,54,54	0
82	MG	AT	228	1/1	0.91	0.31	61,61,61,61	0
82	MG	1	3898	1/1	0.91	0.27	46,46,46,46	0
82	MG	1	4150	1/1	0.91	0.24	66,66,66,66	0
82	MG	AR	3906	1/1	0.91	0.20	43,43,43,43	0
82	MG	sR	2054	1/1	0.91	0.13	62,62,62,62	0
82	MG	1	3657	1/1	0.91	0.32	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3990	1/1	0.91	0.20	67,67,67,67	0
82	MG	1	3662	1/1	0.91	0.24	54,54,54,54	0
82	MG	AR	4056	1/1	0.91	0.20	59,59,59,59	0
82	MG	AR	3911	1/1	0.91	0.15	64,64,64,64	0
81	OHX	AR	3628	7/7	0.91	0.11	147,151,155,219	0
82	MG	1	3904	1/1	0.91	0.28	67,67,67,67	0
82	MG	sR	2063	1/1	0.91	0.12	59,59,59,59	0
82	MG	AR	3759	1/1	0.91	0.10	80,80,80,80	0
82	MG	sR	2065	1/1	0.91	0.18	57,57,57,57	0
82	MG	sR	2067	1/1	0.91	0.30	48,48,48,48	0
82	MG	AR	4062	1/1	0.91	0.26	53,53,53,53	0
82	MG	3	210	1/1	0.91	0.06	45,45,45,45	0
82	MG	AR	3918	1/1	0.91	0.09	71,71,71,71	0
82	MG	CP	305	1/1	0.91	0.18	66,66,66,66	0
82	MG	1	3996	1/1	0.91	0.17	70,70,70,70	0
81	OHX	AR	3558	7/7	0.91	0.12	151,155,158,217	0
82	MG	1	3826	1/1	0.91	0.21	65,65,65,65	0
82	MG	1	3667	1/1	0.91	0.24	60,60,60,60	0
82	MG	AR	3766	1/1	0.91	0.35	62,62,62,62	0
82	MG	1	3735	1/1	0.91	0.22	46,46,46,46	0
82	MG	AR	3927	1/1	0.91	0.23	49,49,49,49	0
82	MG	sR	2080	1/1	0.91	0.29	69,69,69,69	0
81	OHX	A	1960	7/7	0.91	0.10	190,196,201,255	0
82	MG	1	3916	1/1	0.91	0.17	61,61,61,61	0
82	MG	1	3738	1/1	0.91	0.11	64,64,64,64	0
81	OHX	AR	3574	7/7	0.91	0.12	135,137,141,206	0
82	MG	DO	202	1/1	0.91	0.14	73,73,73,73	0
82	MG	1	3741	1/1	0.91	0.12	52,52,52,52	0
82	MG	sM	302	1/1	0.91	0.12	51,51,51,51	0
82	MG	A	1978	1/1	0.91	0.15	61,61,61,61	0
82	MG	1	3838	1/1	0.91	0.23	75,75,75,75	0
82	MG	1	3671	1/1	0.91	0.26	58,58,58,58	0
82	MG	AR	4086	1/1	0.91	0.10	60,60,60,60	0
82	MG	sR	2094	1/1	0.91	0.11	69,69,69,69	0
81	OHX	1	3577	7/7	0.91	0.11	159,165,171,246	0
82	MG	1	3675	1/1	0.91	0.27	46,46,46,46	0
82	MG	AR	4092	1/1	0.91	0.11	65,65,65,65	0
82	MG	sR	2100	1/1	0.91	0.20	50,50,50,50	0
81	OHX	A	1963	7/7	0.91	0.09	176,182,189,242	0
82	MG	AR	3784	1/1	0.91	0.15	50,50,50,50	0
81	OHX	AR	3601	7/7	0.91	0.13	123,133,142,218	0
82	MG	AR	4099	1/1	0.91	0.24	123,123,123,123	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	sR	2106	1/1	0.91	0.08	63,63,63,63	0
82	MG	1	4019	1/1	0.91	0.07	57,57,57,57	0
82	MG	1	3751	1/1	0.91	0.30	51,51,51,51	0
82	MG	AR	4107	1/1	0.91	0.27	79,79,79,79	0
82	MG	AR	4109	1/1	0.91	0.12	43,43,43,43	0
82	MG	AR	4110	1/1	0.91	0.21	55,55,55,55	0
82	MG	AR	3949	1/1	0.91	0.08	68,68,68,68	0
81	OHX	Q	201	7/7	0.91	0.09	219,224,231,285	0
82	MG	AR	3792	1/1	0.91	0.34	42,42,42,42	0
81	OHX	AP	502	7/7	0.91	0.15	132,140,152,236	0
82	MG	1	3851	1/1	0.91	0.16	70,70,70,70	0
82	MG	AR	3800	1/1	0.91	0.26	42,42,42,42	0
81	OHX	AR	3472	7/7	0.91	0.18	113,115,123,189	0
82	MG	1	3687	1/1	0.91	0.13	45,45,45,45	0
81	OHX	AR	3585	7/7	0.91	0.10	150,160,171,238	0
82	MG	sR	2126	1/1	0.91	0.27	75,75,75,75	0
81	OHX	sR	2014	7/7	0.91	0.10	160,165,174,224	0
82	MG	1	4030	1/1	0.91	0.31	58,58,58,58	0
82	MG	AR	3812	1/1	0.91	0.24	58,58,58,58	0
82	MG	AR	3813	1/1	0.91	0.23	48,48,48,48	0
81	OHX	AR	3685	7/7	0.91	0.11	135,141,158,217	0
82	MG	x	205	1/1	0.91	0.16	50,50,50,50	0
81	OHX	AR	3607	7/7	0.91	0.13	140,148,157,231	0
82	MG	A	2028	1/1	0.91	0.13	97,97,97,97	0
82	MG	AR	3818	1/1	0.91	0.23	41,41,41,41	0
82	MG	1	4036	1/1	0.91	0.33	76,76,76,76	0
82	MG	A	2032	1/1	0.91	0.23	65,65,65,65	0
82	MG	AR	3822	1/1	0.91	0.27	69,69,69,69	0
81	OHX	A	1973	7/7	0.91	0.11	149,151,157,209	0
81	OHX	AR	3586	7/7	0.91	0.11	143,146,155,217	0
81	OHX	1	3550	7/7	0.91	0.09	158,163,171,222	0
81	OHX	AR	3521	7/7	0.91	0.13	94,105,127,178	0
82	MG	AB	202	1/1	0.91	0.16	69,69,69,69	0
82	MG	AB	204	1/1	0.91	0.13	58,58,58,58	0
82	MG	A	2041	1/1	0.91	0.15	96,96,96,96	0
82	MG	AR	3979	1/1	0.91	0.22	76,76,76,76	0
82	MG	1	3777	1/1	0.91	0.18	42,42,42,42	0
82	MG	1	3704	1/1	0.91	0.12	62,62,62,62	0
82	MG	AR	3984	1/1	0.91	0.20	67,67,67,67	0
81	OHX	1	3547	7/7	0.91	0.10	152,157,165,219	0
81	OHX	1	4127	7/7	0.91	0.10	205,209,216,277	0
82	MG	1	3632	1/1	0.91	0.15	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	4151	1/1	0.91	0.23	40,40,40,40	0
82	MG	sR	2157	1/1	0.91	0.10	80,80,80,80	0
82	MG	1	4052	1/1	0.91	0.32	70,70,70,70	0
82	MG	1	4053	1/1	0.91	0.27	50,50,50,50	0
82	MG	AR	3848	1/1	0.91	0.22	44,44,44,44	0
81	OHX	AR	3615	7/7	0.91	0.10	165,169,176,235	0
82	MG	A	2054	1/1	0.91	0.22	65,65,65,65	0
82	MG	AR	3995	1/1	0.91	0.18	70,70,70,70	0
82	MG	AR	4159	1/1	0.91	0.12	46,46,46,46	0
82	MG	AR	4160	1/1	0.91	0.29	45,45,45,45	0
82	MG	AR	3852	1/1	0.91	0.27	51,51,51,51	0
81	OHX	AR	3535	7/7	0.91	0.12	110,122,127,191	0
82	MG	AR	3703	1/1	0.91	0.35	41,41,41,41	0
82	MG	1	4056	1/1	0.91	0.26	44,44,44,44	0
82	MG	AR	4002	1/1	0.91	0.14	61,61,61,61	0
82	MG	1	3793	1/1	0.91	0.33	67,67,67,67	0
81	OHX	A	2128	7/7	0.91	0.14	157,161,162,227	0
82	MG	AR	4007	1/1	0.91	0.12	53,53,53,53	0
82	MG	1	3963	1/1	0.91	0.11	71,71,71,71	0
82	MG	d3	204	1/1	0.91	0.27	49,49,49,49	0
82	MG	AR	4009	1/1	0.91	0.08	58,58,58,58	0
82	MG	d4	203	1/1	0.91	0.32	73,73,73,73	0
82	MG	AR	4185	1/1	0.91	0.26	66,66,66,66	0
82	MG	1	3713	1/1	0.91	0.24	52,52,52,52	0
82	MG	d9	102	1/1	0.91	0.11	78,78,78,78	0
82	MG	1	3714	1/1	0.91	0.26	42,42,42,42	0
85	ZN	DI	202	1/1	0.91	0.09	110,110,110,110	0
82	MG	AR	4014	1/1	0.91	0.26	74,74,74,74	0
82	MG	AR	3868	1/1	0.91	0.27	48,48,48,48	0
82	MG	AR	3798	1/1	0.92	0.21	48,48,48,48	0
81	OHX	1	3537	7/7	0.92	0.10	143,146,154,212	0
82	MG	A	2077	1/1	0.92	0.10	76,76,76,76	0
81	OHX	DQ	502	7/7	0.92	0.15	142,151,165,248	0
82	MG	AR	3802	1/1	0.92	0.38	49,49,49,49	0
82	MG	1	3753	1/1	0.92	0.22	61,61,61,61	0
82	MG	AR	4173	1/1	0.92	0.29	59,59,59,59	0
82	MG	4	218	1/1	0.92	0.31	69,69,69,69	0
81	OHX	A	1926	7/7	0.92	0.11	176,177,181,232	0
82	MG	AR	4181	1/1	0.92	0.15	61,61,61,61	0
82	MG	AR	4183	1/1	0.92	0.09	51,51,51,51	0
81	OHX	A	1933	7/7	0.92	0.10	147,151,157,219	0
82	MG	1	3758	1/1	0.92	0.32	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	A	1935	7/7	0.92	0.12	152,158,167,223	0
81	OHX	1	3509	7/7	0.92	0.12	138,139,146,210	0
81	OHX	1	3558	7/7	0.92	0.10	153,158,166,235	0
82	MG	1	3676	1/1	0.92	0.19	43,43,43,43	0
82	MG	AR	4190	1/1	0.92	0.18	76,76,76,76	0
81	OHX	1	3541	7/7	0.92	0.10	137,144,156,203	0
82	MG	1	3679	1/1	0.92	0.23	68,68,68,68	0
82	MG	AR	4001	1/1	0.92	0.22	58,58,58,58	0
82	MG	AR	4194	1/1	0.92	0.11	72,72,72,72	0
81	OHX	AR	3590	7/7	0.92	0.12	147,148,154,218	0
82	MG	F	301	1/1	0.92	0.16	81,81,81,81	0
81	OHX	1	3511	7/7	0.92	0.12	142,148,154,222	0
82	MG	j	303	1/1	0.92	0.10	50,50,50,50	0
81	OHX	1	3487	7/7	0.92	0.13	114,119,125,182	0
82	MG	sR	2029	1/1	0.92	0.28	60,60,60,60	0
82	MG	AR	3828	1/1	0.92	0.38	56,56,56,56	0
82	MG	1	3882	1/1	0.92	0.23	63,63,63,63	0
82	MG	o	301	1/1	0.92	0.18	65,65,65,65	0
82	MG	1	3772	1/1	0.92	0.18	59,59,59,59	0
82	MG	r	303	1/1	0.92	0.14	55,55,55,55	0
82	MG	AS	3523	1/1	0.92	0.09	80,80,80,80	0
82	MG	AR	3837	1/1	0.92	0.24	41,41,41,41	0
82	MG	1	4000	1/1	0.92	0.12	106,106,106,106	0
82	MG	t	201	1/1	0.92	0.08	63,63,63,63	0
82	MG	sR	2041	1/1	0.92	0.30	55,55,55,55	0
82	MG	AR	4019	1/1	0.92	0.08	68,68,68,68	0
82	MG	1	3684	1/1	0.92	0.31	57,57,57,57	0
82	MG	sR	2044	1/1	0.92	0.22	63,63,63,63	0
81	OHX	1	3514	7/7	0.92	0.12	143,150,160,217	0
82	MG	AR	3845	1/1	0.92	0.26	43,43,43,43	0
82	MG	v	304	1/1	0.92	0.32	63,63,63,63	0
82	MG	sR	2049	1/1	0.92	0.15	67,67,67,67	0
82	MG	1	3889	1/1	0.92	0.18	70,70,70,70	0
82	MG	x	201	1/1	0.92	0.20	42,42,42,42	0
82	MG	sR	2052	1/1	0.92	0.20	65,65,65,65	0
82	MG	sR	2053	1/1	0.92	0.16	59,59,59,59	0
82	MG	1	4005	1/1	0.92	0.19	102,102,102,102	0
82	MG	1	3779	1/1	0.92	0.26	49,49,49,49	0
82	MG	1	4008	1/1	0.92	0.09	67,67,67,67	0
81	OHX	sR	1967	7/7	0.92	0.12	149,155,160,214	0
82	MG	1	3782	1/1	0.92	0.35	42,42,42,42	0
82	MG	1	4011	1/1	0.92	0.31	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AT	230	1/1	0.92	0.25	48,48,48,48	0
82	MG	AR	4035	1/1	0.92	0.09	70,70,70,70	0
82	MG	sR	2062	1/1	0.92	0.21	62,62,62,62	0
82	MG	6	201	1/1	0.92	0.33	46,46,46,46	0
82	MG	1	3783	1/1	0.92	0.28	43,43,43,43	0
82	MG	1	3785	1/1	0.92	0.19	42,42,42,42	0
81	OHX	sR	1969	7/7	0.92	0.11	129,131,137,202	0
81	OHX	1	3616	7/7	0.92	0.15	95,107,115,153	0
81	OHX	1	3546	7/7	0.92	0.11	147,149,163,226	0
81	OHX	1	4139	7/7	0.92	0.27	106,108,110,130	7
82	MG	CG	304	1/1	0.92	0.08	63,63,63,63	0
82	MG	CI	301	1/1	0.92	0.14	65,65,65,65	0
81	OHX	1	3516	7/7	0.92	0.10	162,167,172,227	0
82	MG	1	3901	1/1	0.92	0.36	76,76,76,76	0
82	MG	AG	203	1/1	0.92	0.26	62,62,62,62	0
81	OHX	1	4141	7/7	0.92	0.09	169,173,183,222	7
82	MG	1	3698	1/1	0.92	0.23	54,54,54,54	0
82	MG	CP	304	1/1	0.92	0.14	56,56,56,56	0
82	MG	AR	3693	1/1	0.92	0.11	54,54,54,54	0
82	MG	1	3699	1/1	0.92	0.34	60,60,60,60	0
82	MG	AR	4054	1/1	0.92	0.17	53,53,53,53	0
81	OHX	1	3469	7/7	0.92	0.14	88,105,112,161	0
82	MG	AR	3698	1/1	0.92	0.28	62,62,62,62	0
81	OHX	1	4107	7/7	0.92	0.11	110,115,125,171	0
81	OHX	3	204	7/7	0.92	0.11	142,146,150,216	0
82	MG	1	3911	1/1	0.92	0.11	59,59,59,59	0
82	MG	AR	3891	1/1	0.92	0.22	52,52,52,52	0
82	MG	DC	201	1/1	0.92	0.29	74,74,74,74	0
81	OHX	sR	1988	7/7	0.92	0.10	147,165,166,226	0
81	OHX	1	3524	7/7	0.92	0.12	151,156,172,246	0
82	MG	DH	201	1/1	0.92	0.13	59,59,59,59	0
82	MG	AR	3709	1/1	0.92	0.23	62,62,62,62	0
82	MG	AR	3898	1/1	0.92	0.14	68,68,68,68	0
82	MG	sR	2097	1/1	0.92	0.13	74,74,74,74	0
82	MG	1	3813	1/1	0.92	0.23	64,64,64,64	0
82	MG	1	3917	1/1	0.92	0.11	76,76,76,76	0
82	MG	sR	2101	1/1	0.92	0.15	87,87,87,87	0
82	MG	1	4034	1/1	0.92	0.35	52,52,52,52	0
82	MG	1	4035	1/1	0.92	0.34	61,61,61,61	0
82	MG	AR	4071	1/1	0.92	0.14	67,67,67,67	0
81	OHX	AR	3556	7/7	0.92	0.14	116,120,128,188	0
81	OHX	AR	3604	7/7	0.92	0.11	144,149,156,235	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	A	1965	7/7	0.92	0.09	173,176,192,241	0
82	MG	AR	3907	1/1	0.92	0.20	53,53,53,53	0
81	OHX	1	3503	7/7	0.92	0.11	115,129,139,214	0
81	OHX	AR	3561	7/7	0.92	0.14	120,126,133,199	0
82	MG	A	1995	1/1	0.92	0.29	58,58,58,58	0
81	OHX	AR	3562	7/7	0.92	0.13	136,140,150,212	0
82	MG	A	1997	1/1	0.92	0.23	59,59,59,59	0
82	MG	1	3624	1/1	0.92	0.19	45,45,45,45	0
82	MG	AR	4085	1/1	0.92	0.20	66,66,66,66	0
82	MG	AR	3912	1/1	0.92	0.16	72,72,72,72	0
82	MG	AR	4087	1/1	0.92	0.18	44,44,44,44	0
81	OHX	sR	1998	7/7	0.92	0.11	154,160,167,230	0
82	MG	AR	3729	1/1	0.92	0.22	59,59,59,59	0
82	MG	AR	4091	1/1	0.92	0.07	75,75,75,75	0
81	OHX	AR	3609	7/7	0.92	0.13	143,149,156,236	0
81	OHX	AR	3610	7/7	0.92	0.14	125,131,141,202	0
82	MG	1	3929	1/1	0.92	0.13	55,55,55,55	0
81	OHX	A	1972	7/7	0.92	0.09	188,192,196,254	0
82	MG	1	3722	1/1	0.92	0.23	48,48,48,48	0
82	MG	AR	3739	1/1	0.92	0.19	63,63,63,63	0
81	OHX	AR	3563	7/7	0.92	0.12	125,136,151,197	0
82	MG	AR	4105	1/1	0.92	0.16	52,52,52,52	0
82	MG	1	3830	1/1	0.92	0.32	69,69,69,69	0
81	OHX	AR	3568	7/7	0.92	0.11	109,112,122,183	0
81	OHX	AR	3570	7/7	0.92	0.11	135,139,149,221	0
81	OHX	AR	3571	7/7	0.92	0.12	126,131,136,205	0
82	MG	1	3942	1/1	0.92	0.11	54,54,54,54	0
82	MG	A	2025	1/1	0.92	0.19	78,78,78,78	0
81	OHX	AR	3572	7/7	0.92	0.11	130,135,146,206	0
82	MG	sR	2143	1/1	0.92	0.32	76,76,76,76	0
82	MG	1	4063	1/1	0.92	0.10	43,43,43,43	0
82	MG	AR	3752	1/1	0.92	0.15	57,57,57,57	0
82	MG	1	3837	1/1	0.92	0.10	47,47,47,47	0
82	MG	1	3728	1/1	0.92	0.24	45,45,45,45	0
81	OHX	AR	3573	7/7	0.92	0.10	146,154,166,230	0
82	MG	1	4067	1/1	0.92	0.11	54,54,54,54	0
81	OHX	1	3526	7/7	0.92	0.10	155,161,165,229	0
81	OHX	1	3606	7/7	0.92	0.13	143,146,152,218	0
82	MG	1	3950	1/1	0.92	0.35	68,68,68,68	0
82	MG	1	3646	1/1	0.92	0.23	55,55,55,55	0
82	MG	1	4080	1/1	0.92	0.29	60,60,60,60	0
82	MG	1	4081	1/1	0.92	0.10	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	3951	1/1	0.92	0.38	63,63,63,63	0
82	MG	1	3647	1/1	0.92	0.22	65,65,65,65	0
81	OHX	1	3553	7/7	0.92	0.14	142,147,153,223	0
82	MG	1	3954	1/1	0.92	0.22	68,68,68,68	0
82	MG	sR	2163	1/1	0.92	0.09	70,70,70,70	0
81	OHX	AR	3621	7/7	0.92	0.11	142,147,158,228	0
82	MG	1	3848	1/1	0.92	0.25	62,62,62,62	0
81	OHX	AR	3579	7/7	0.92	0.10	116,122,129,189	0
81	OHX	1	3534	7/7	0.92	0.11	116,124,135,201	0
81	OHX	AR	3584	7/7	0.92	0.09	134,138,153,217	0
82	MG	1	3656	1/1	0.92	0.10	94,94,94,94	0
82	MG	AR	3779	1/1	0.92	0.14	42,42,42,42	0
82	MG	AR	3780	1/1	0.92	0.18	47,47,47,47	0
81	OHX	1	3573	7/7	0.92	0.10	150,156,169,225	0
82	MG	1	3964	1/1	0.92	0.13	60,60,60,60	0
82	MG	c4	2201	1/1	0.92	0.08	74,74,74,74	0
82	MG	c4	2202	1/1	0.92	0.17	57,57,57,57	0
82	MG	AR	3783	1/1	0.92	0.19	65,65,65,65	0
82	MG	AR	3967	1/1	0.92	0.11	66,66,66,66	0
82	MG	1	3855	1/1	0.92	0.15	51,51,51,51	0
82	MG	1	3747	1/1	0.92	0.33	47,47,47,47	0
82	MG	1	3968	1/1	0.92	0.20	76,76,76,76	0
82	MG	A	2060	1/1	0.92	0.20	74,74,74,74	0
82	MG	3	211	1/1	0.92	0.31	45,45,45,45	0
82	MG	AR	3789	1/1	0.92	0.31	44,44,44,44	0
81	OHX	AR	3629	7/7	0.92	0.10	151,153,163,227	0
82	MG	AR	3791	1/1	0.92	0.32	41,41,41,41	0
82	MG	1	3858	1/1	0.92	0.12	47,47,47,47	0
82	MG	AR	3794	1/1	0.92	0.09	55,55,55,55	0
84	XBI	AR	4222	26/26	0.92	0.14	57,61,64,65	0
82	MG	1	3749	1/1	0.92	0.22	48,48,48,48	0
81	OHX	CS	201	7/7	0.92	0.12	143,146,151,232	0
82	MG	AR	4163	1/1	0.92	0.13	51,51,51,51	0
82	MG	AR	3950	1/1	0.93	0.09	45,45,45,45	0
82	MG	sR	1902	1/1	0.93	0.12	69,69,69,69	0
82	MG	1	3689	1/1	0.93	0.25	71,71,71,71	0
82	MG	1	4047	1/1	0.93	0.23	51,51,51,51	0
82	MG	AR	3811	1/1	0.93	0.36	41,41,41,41	0
82	MG	sR	2032	1/1	0.93	0.14	73,73,73,73	0
81	OHX	A	2124	7/7	0.93	0.08	180,185,197,258	0
81	OHX	AR	3517	7/7	0.93	0.11	125,136,143,191	0
82	MG	AR	3814	1/1	0.93	0.17	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	AR	3687[A]	7/7	0.93	0.21	134,135,139,158	7
81	OHX	A	1934	7/7	0.93	0.08	177,179,181,226	0
82	MG	AR	3691	1/1	0.93	0.19	45,45,45,45	0
81	OHX	AR	3687[B]	7/7	0.93	0.21	129,134,139,161	7
82	MG	AR	3819	1/1	0.93	0.34	40,40,40,40	0
81	OHX	AR	3657	7/7	0.93	0.08	207,211,215,269	0
82	MG	AR	3695	1/1	0.93	0.36	58,58,58,58	0
82	MG	CR	204	1/1	0.93	0.31	58,58,58,58	0
81	OHX	1	3545	7/7	0.93	0.09	205,206,211,259	0
81	OHX	AR	3523	7/7	0.93	0.10	142,146,156,214	0
82	MG	AR	4108	1/1	0.93	0.39	63,63,63,63	0
82	MG	1	3868	1/1	0.93	0.28	61,61,61,61	0
82	MG	DA	202	1/1	0.93	0.33	65,65,65,65	0
81	OHX	1	4126	7/7	0.93	0.08	175,185,196,270	0
81	OHX	1	3480	7/7	0.93	0.13	119,127,135,181	0
81	OHX	1	4103	7/7	0.93	0.13	122,126,130,197	0
82	MG	DF	201	1/1	0.93	0.17	63,63,63,63	0
82	MG	1	3706	1/1	0.93	0.11	45,45,45,45	0
82	MG	AR	3834	1/1	0.93	0.27	54,54,54,54	0
82	MG	AR	4116	1/1	0.93	0.14	85,85,85,85	0
81	OHX	1	3587	7/7	0.93	0.11	143,149,157,220	0
82	MG	DQ	504	1/1	0.93	0.23	56,56,56,56	0
81	OHX	1	3517	7/7	0.93	0.10	134,147,152,214	0
82	MG	A	1976	1/1	0.93	0.17	72,72,72,72	0
81	OHX	AR	3636	7/7	0.93	0.09	142,153,161,222	0
81	OHX	AR	3548	7/7	0.93	0.11	125,127,139,193	0
82	MG	AR	3712	1/1	0.93	0.16	46,46,46,46	0
82	MG	AR	3843	1/1	0.93	0.38	52,52,52,52	0
82	MG	sR	2066	1/1	0.93	0.22	46,46,46,46	0
82	MG	A	1983	1/1	0.93	0.15	63,63,63,63	0
82	MG	A	1984	1/1	0.93	0.19	68,68,68,68	0
81	OHX	v	301	7/7	0.93	0.11	128,130,143,200	0
82	MG	A	1986	1/1	0.93	0.17	60,60,60,60	0
82	MG	A	1987	1/1	0.93	0.06	57,57,57,57	0
82	MG	1	4073	1/1	0.93	0.24	69,69,69,69	0
82	MG	1	3969	1/1	0.93	0.11	66,66,66,66	0
82	MG	1	3791	1/1	0.93	0.30	54,54,54,54	0
82	MG	1	3639	1/1	0.93	0.34	62,62,62,62	0
82	MG	A	1993	1/1	0.93	0.34	63,63,63,63	0
82	MG	sR	2077	1/1	0.93	0.39	70,70,70,70	0
82	MG	A	1994	1/1	0.93	0.24	62,62,62,62	0
82	MG	AR	3987	1/1	0.93	0.17	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	1	3641	1/1	0.93	0.18	47,47,47,47	0
81	OHX	AR	3552	7/7	0.93	0.12	116,124,133,190	0
82	MG	AR	3724	1/1	0.93	0.30	56,56,56,56	0
82	MG	1	3884	1/1	0.93	0.27	65,65,65,65	0
82	MG	sR	2085	1/1	0.93	0.20	54,54,54,54	0
81	OHX	A	1957	7/7	0.93	0.11	173,174,180,238	0
81	OHX	AR	4205	6/7	0.93	0.11	139,142,146,213	0
82	MG	1	3800	1/1	0.93	0.26	44,44,44,44	0
82	MG	1	3981	1/1	0.93	0.17	54,54,54,54	0
82	MG	AR	3998	1/1	0.93	0.28	63,63,63,63	0
82	MG	1	3803	1/1	0.93	0.29	48,48,48,48	0
81	OHX	AS	3509	7/7	0.93	0.11	129,134,140,197	0
82	MG	AR	3734	1/1	0.93	0.19	41,41,41,41	0
82	MG	AR	3735	1/1	0.93	0.24	51,51,51,51	0
81	OHX	1	3518	7/7	0.93	0.10	134,138,148,204	0
82	MG	AR	4005	1/1	0.93	0.20	41,41,41,41	0
81	OHX	sR	1956	7/7	0.93	0.11	138,142,149,177	0
81	OHX	AR	3555	7/7	0.93	0.10	125,131,136,197	0
81	OHX	1	4118	7/7	0.93	0.09	131,137,141,211	0
81	OHX	sR	1965	7/7	0.93	0.09	122,124,135,187	0
82	MG	1	3991	1/1	0.93	0.09	68,68,68,68	0
81	OHX	sR	1966	7/7	0.93	0.10	123,126,142,203	0
82	MG	1	3816	1/1	0.93	0.15	55,55,55,55	0
82	MG	1	3994	1/1	0.93	0.16	42,42,42,42	0
82	MG	1	3655	1/1	0.93	0.22	42,42,42,42	0
82	MG	sR	2108	1/1	0.93	0.11	73,73,73,73	0
82	MG	1	3900	1/1	0.93	0.26	58,58,58,58	0
81	OHX	1	3528	7/7	0.93	0.10	122,129,133,195	0
82	MG	sR	2111	1/1	0.93	0.08	78,78,78,78	0
82	MG	AR	3754	1/1	0.93	0.19	42,42,42,42	0
81	OHX	AR	3560	7/7	0.93	0.10	146,149,155,217	0
82	MG	1	3658	1/1	0.93	0.18	57,57,57,57	0
82	MG	1	3660	1/1	0.93	0.34	64,64,64,64	0
81	OHX	AR	3645	7/7	0.93	0.10	127,134,149,214	0
82	MG	A	2035	1/1	0.93	0.12	60,60,60,60	0
82	MG	AR	3897	1/1	0.93	0.13	44,44,44,44	0
82	MG	1	3733	1/1	0.93	0.30	45,45,45,45	0
82	MG	AR	3761	1/1	0.93	0.25	44,44,44,44	0
82	MG	1	3907	1/1	0.93	0.09	84,84,84,84	0
82	MG	4	221	1/1	0.93	0.34	46,46,46,46	0
82	MG	AR	4182	1/1	0.93	0.22	54,54,54,54	0
82	MG	1	3734	1/1	0.93	0.18	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	4033	1/1	0.93	0.09	58,58,58,58	0
81	OHX	sR	1973	7/7	0.93	0.11	138,142,146,199	0
82	MG	1	3664	1/1	0.93	0.29	60,60,60,60	0
82	MG	AR	4037	1/1	0.93	0.09	57,57,57,57	0
82	MG	1	3914	1/1	0.93	0.23	56,56,56,56	0
82	MG	1	3828	1/1	0.93	0.07	59,59,59,59	0
81	OHX	sR	1975	7/7	0.93	0.13	126,136,142,209	0
81	OHX	1	3532	7/7	0.93	0.10	148,152,158,217	0
81	OHX	3	218	7/7	0.93	0.11	129,140,144,204	0
81	OHX	AR	3494	7/7	0.93	0.09	122,127,138,190	0
82	MG	1	3833	1/1	0.93	0.29	65,65,65,65	0
81	OHX	AR	3564	7/7	0.93	0.08	162,164,168,220	0
82	MG	1	3835	1/1	0.93	0.10	78,78,78,78	0
81	OHX	sR	1981	7/7	0.93	0.11	150,153,160,211	0
82	MG	1	3673	1/1	0.93	0.33	45,45,45,45	0
82	MG	AS	3515	1/1	0.93	0.33	48,48,48,48	0
82	MG	AS	3516	1/1	0.93	0.16	68,68,68,68	0
82	MG	1	3925	1/1	0.93	0.07	68,68,68,68	0
82	MG	A	2061	1/1	0.93	0.18	86,86,86,86	0
82	MG	1	3674	1/1	0.93	0.23	42,42,42,42	0
81	OHX	AR	3620	7/7	0.93	0.09	150,159,167,227	0
82	MG	AR	4053	1/1	0.93	0.16	73,73,73,73	0
81	OHX	sR	1985	7/7	0.93	0.12	129,136,147,202	0
81	OHX	AR	3565	7/7	0.93	0.11	127,134,141,209	0
82	MG	AS	3524	1/1	0.93	0.14	62,62,62,62	0
81	OHX	AR	3567	7/7	0.93	0.10	139,141,150,213	0
81	OHX	1	3508	7/7	0.93	0.10	125,128,134,192	0
82	MG	AR	4059	1/1	0.93	0.23	76,76,76,76	0
82	MG	AR	3788	1/1	0.93	0.30	43,43,43,43	0
82	MG	sR	2159	1/1	0.93	0.13	68,68,68,68	0
82	MG	A	2075	1/1	0.93	0.24	59,59,59,59	0
81	OHX	AR	3569	7/7	0.93	0.09	150,153,164,226	0
82	MG	sR	2162	1/1	0.93	0.09	47,47,47,47	0
81	OHX	sR	1990	7/7	0.93	0.09	164,170,177,235	0
82	MG	AT	217	1/1	0.93	0.16	49,49,49,49	0
82	MG	x	203	1/1	0.93	0.23	50,50,50,50	0
82	MG	AR	3931	1/1	0.93	0.10	61,61,61,61	0
82	MG	1	3756	1/1	0.93	0.22	63,63,63,63	0
82	MG	AT	221	1/1	0.93	0.23	63,63,63,63	0
81	OHX	AR	3627	7/7	0.93	0.10	125,130,138,199	0
82	MG	1	3759	1/1	0.93	0.32	44,44,44,44	0
82	MG	AR	3796	1/1	0.93	0.23	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AT	225	1/1	0.93	0.12	51,51,51,51	0
82	MG	A	2089	1/1	0.93	0.05	65,65,65,65	0
82	MG	1	3938	1/1	0.93	0.31	70,70,70,70	0
82	MG	A	2091	1/1	0.93	0.26	61,61,61,61	0
82	MG	1	3939	1/1	0.93	0.17	69,69,69,69	0
82	MG	AR	3941	1/1	0.93	0.07	47,47,47,47	0
82	MG	A	2094	1/1	0.93	0.39	76,76,76,76	0
82	MG	c9	201	1/1	0.93	0.06	74,74,74,74	0
81	OHX	sR	1992	7/7	0.93	0.09	156,167,174,233	0
82	MG	AR	3943	1/1	0.93	0.20	52,52,52,52	0
81	OHX	A	2120	7/7	0.93	0.10	155,159,163,211	0
82	MG	d4	201	1/1	0.93	0.13	64,64,64,64	0
82	MG	CD	303	1/1	0.93	0.22	64,64,64,64	0
82	MG	1	3944	1/1	0.93	0.16	43,43,43,43	0
82	MG	1	3763	1/1	0.93	0.28	48,48,48,48	0
82	MG	AR	3805	1/1	0.93	0.11	45,45,45,45	0
81	OHX	A	1923	7/7	0.93	0.10	140,145,150,200	0
82	MG	AR	4081	1/1	0.93	0.09	61,61,61,61	0
84	XBI	1	4157	26/26	0.93	0.13	50,53,56,58	0
82	MG	O	202	1/1	0.93	0.22	71,71,71,71	0
82	MG	P	201	1/1	0.93	0.07	69,69,69,69	0
82	MG	AR	4083	1/1	0.93	0.18	69,69,69,69	0
82	MG	CF	401	1/1	0.93	0.17	62,62,62,62	0
81	OHX	A	1956	7/7	0.94	0.09	171,176,182,233	0
81	OHX	sR	2174	7/7	0.94	0.26	101,103,104,133	7
81	OHX	sR	1971	7/7	0.94	0.09	137,143,151,206	0
81	OHX	AR	3662	7/7	0.94	0.08	183,190,194,244	0
82	MG	1	3773	1/1	0.94	0.37	51,51,51,51	0
82	MG	AR	4114	1/1	0.94	0.08	69,69,69,69	0
81	OHX	AR	3544	7/7	0.94	0.11	122,129,135,206	0
82	MG	sR	2047	1/1	0.94	0.28	60,60,60,60	0
82	MG	DH	202	1/1	0.94	0.07	57,57,57,57	0
82	MG	AR	3699	1/1	0.94	0.29	47,47,47,47	0
81	OHX	AR	3546	7/7	0.94	0.11	125,129,141,215	0
82	MG	AR	3973	1/1	0.94	0.23	57,57,57,57	0
82	MG	1	4061	1/1	0.94	0.14	59,59,59,59	0
82	MG	AR	3702	1/1	0.94	0.14	42,42,42,42	0
82	MG	AR	3833	1/1	0.94	0.26	59,59,59,59	0
82	MG	1	3694	1/1	0.94	0.18	45,45,45,45	0
82	MG	AR	3705	1/1	0.94	0.07	70,70,70,70	0
81	OHX	AS	3506	7/7	0.94	0.12	114,116,127,186	0
82	MG	1	3965	1/1	0.94	0.40	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	4	211	7/7	0.94	0.09	141,146,157,207	0
82	MG	AR	4127	1/1	0.94	0.37	75,75,75,75	0
81	OHX	sR	1978	7/7	0.94	0.11	110,114,122,186	0
82	MG	1	3784	1/1	0.94	0.20	40,40,40,40	0
82	MG	1	4069	1/1	0.94	0.32	59,59,59,59	0
81	OHX	1	3510	7/7	0.94	0.10	130,137,145,214	0
81	OHX	1	3533	7/7	0.94	0.12	140,143,144,215	0
81	OHX	1	4108	7/7	0.94	0.09	108,124,125,191	0
82	MG	AR	3991	1/1	0.94	0.22	44,44,44,44	0
82	MG	1	4077	1/1	0.94	0.16	59,59,59,59	0
81	OHX	sR	1982	7/7	0.94	0.10	151,153,164,216	0
82	MG	AR	3851	1/1	0.94	0.30	54,54,54,54	0
82	MG	1	3703	1/1	0.94	0.18	52,52,52,52	0
82	MG	AR	3854	1/1	0.94	0.20	48,48,48,48	0
81	OHX	1	4114	7/7	0.94	0.10	123,127,131,192	0
82	MG	AR	3858	1/1	0.94	0.43	59,59,59,59	0
82	MG	1	3976	1/1	0.94	0.14	46,46,46,46	0
82	MG	1	3977	1/1	0.94	0.33	79,79,79,79	0
82	MG	A	2003	1/1	0.94	0.15	57,57,57,57	0
82	MG	AR	3726	1/1	0.94	0.20	58,58,58,58	0
82	MG	A	2005	1/1	0.94	0.28	88,88,88,88	0
82	MG	AR	4149	1/1	0.94	0.28	66,66,66,66	0
82	MG	1	3885	1/1	0.94	0.06	59,59,59,59	0
82	MG	1	3886	1/1	0.94	0.22	61,61,61,61	0
82	MG	A	2009	1/1	0.94	0.32	68,68,68,68	0
81	OHX	AT	209	7/7	0.94	0.11	110,113,119,178	0
81	OHX	AT	211	7/7	0.94	0.10	124,129,140,198	0
82	MG	1	3623	1/1	0.94	0.12	46,46,46,46	0
81	OHX	1	3491	7/7	0.94	0.11	119,122,125,182	0
82	MG	AR	4157	1/1	0.94	0.32	43,43,43,43	0
82	MG	1	3625	1/1	0.94	0.19	44,44,44,44	0
82	MG	1	3799	1/1	0.94	0.16	73,73,73,73	0
82	MG	AR	4012	1/1	0.94	0.07	63,63,63,63	0
81	OHX	AT	213	7/7	0.94	0.09	128,130,144,205	0
81	OHX	AR	3557	7/7	0.94	0.09	139,143,148,202	0
81	OHX	AT	216	7/7	0.94	0.08	151,156,166,230	0
82	MG	1	3805	1/1	0.94	0.32	43,43,43,43	0
82	MG	AR	4165	1/1	0.94	0.11	55,55,55,55	0
81	OHX	1	4117	7/7	0.94	0.11	119,123,138,185	0
82	MG	1	3808	1/1	0.94	0.28	45,45,45,45	0
82	MG	AR	4169	1/1	0.94	0.11	64,64,64,64	0
81	OHX	1	3581	7/7	0.94	0.09	154,159,169,227	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	1	4120	6/7	0.94	0.11	117,126,129,186	0
82	MG	AR	3887	1/1	0.94	0.17	53,53,53,53	0
82	MG	AR	4023	1/1	0.94	0.09	65,65,65,65	0
82	MG	3	214	1/1	0.94	0.19	56,56,56,56	0
82	MG	AR	3749	1/1	0.94	0.17	69,69,69,69	0
82	MG	3	215	1/1	0.94	0.21	72,72,72,72	0
81	OHX	1	3536	7/7	0.94	0.10	112,113,115,177	0
82	MG	AR	3892	1/1	0.94	0.22	72,72,72,72	0
82	MG	1	3719	1/1	0.94	0.36	42,42,42,42	0
82	MG	AR	3753	1/1	0.94	0.10	92,92,92,92	0
81	OHX	A	2119	7/7	0.94	0.10	136,144,151,212	0
82	MG	1	3999	1/1	0.94	0.11	82,82,82,82	0
81	OHX	AR	3442	7/7	0.94	0.17	74,92,100,120	0
81	OHX	1	3468	7/7	0.94	0.13	106,115,118,170	0
82	MG	AR	4036	1/1	0.94	0.18	57,57,57,57	0
82	MG	AR	3758	1/1	0.94	0.22	66,66,66,66	0
82	MG	1	3640	1/1	0.94	0.16	45,45,45,45	0
81	OHX	A	2122	7/7	0.94	0.09	137,140,147,192	0
81	OHX	1	3521	7/7	0.94	0.11	120,124,138,185	0
82	MG	AR	4217	1/1	0.94	0.11	59,59,59,59	0
82	MG	4	223	1/1	0.94	0.26	59,59,59,59	0
82	MG	AS	3511	1/1	0.94	0.23	51,51,51,51	0
82	MG	AS	3512	1/1	0.94	0.09	44,44,44,44	0
81	OHX	1	3522	7/7	0.94	0.09	136,144,147,198	0
82	MG	1	3644	1/1	0.94	0.20	65,65,65,65	0
81	OHX	AR	3506	7/7	0.94	0.13	106,112,116,176	0
81	OHX	DL	102	7/7	0.94	0.11	109,115,118,170	0
82	MG	AR	3767	1/1	0.94	0.11	71,71,71,71	0
81	OHX	AR	3509	7/7	0.94	0.15	97,109,117,183	0
81	OHX	A	1919	7/7	0.94	0.10	149,154,156,198	0
81	OHX	AR	3513	7/7	0.94	0.09	163,166,168,202	0
82	MG	4	233	1/1	0.94	0.13	60,60,60,60	0
81	OHX	A	1924	7/7	0.94	0.10	124,128,137,191	0
82	MG	AR	3916	1/1	0.94	0.22	50,50,50,50	0
81	OHX	AR	3514	7/7	0.94	0.12	98,105,111,169	0
81	OHX	A	1932	7/7	0.94	0.09	139,145,150,193	0
81	OHX	AR	3515	7/7	0.94	0.09	119,132,140,200	0
82	MG	AR	3920	1/1	0.94	0.12	46,46,46,46	0
82	MG	l	403	1/1	0.94	0.08	64,64,64,64	0
82	MG	l	404	1/1	0.94	0.11	52,52,52,52	0
81	OHX	1	3513	7/7	0.94	0.09	145,148,154,212	0
82	MG	A	2073	1/1	0.94	0.12	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	A	2139	7/7	0.94	0.08	145,150,156,218	0
81	OHX	1	3474	7/7	0.94	0.10	107,110,117,164	0
81	OHX	A	1936	7/7	0.94	0.09	185,191,197,241	0
81	OHX	1	3515	7/7	0.94	0.09	127,134,148,204	0
82	MG	A	2079	1/1	0.94	0.40	52,52,52,52	0
82	MG	1	3745	1/1	0.94	0.36	49,49,49,49	0
81	OHX	A	2144	7/7	0.94	0.09	137,140,144,186	0
81	OHX	AR	3576	7/7	0.94	0.10	149,152,154,191	0
81	OHX	1	3527	7/7	0.94	0.10	125,130,134,195	0
81	OHX	1	3490	7/7	0.94	0.12	108,116,121,183	0
82	MG	1	4028	1/1	0.94	0.20	58,58,58,58	0
82	MG	1	3843	1/1	0.94	0.17	49,49,49,49	0
82	MG	AR	4073	1/1	0.94	0.11	76,76,76,76	0
82	MG	1	3668	1/1	0.94	0.12	58,58,58,58	0
81	OHX	AR	3532	7/7	0.94	0.10	129,134,143,202	0
82	MG	1	4033	1/1	0.94	0.31	44,44,44,44	0
81	OHX	S	201	7/7	0.94	0.10	180,182,185,246	0
81	OHX	AR	3582	7/7	0.94	0.10	120,125,133,192	0
82	MG	s2	301	1/1	0.94	0.10	91,91,91,91	0
81	OHX	AR	3583	7/7	0.94	0.08	146,151,155,213	0
82	MG	AR	3945	1/1	0.94	0.06	47,47,47,47	0
81	OHX	sR	1901	7/7	0.94	0.11	140,141,145,214	0
81	OHX	sR	1941	7/7	0.94	0.10	145,147,151,189	0
81	OHX	sR	1951	7/7	0.94	0.10	124,128,135,184	0
81	OHX	1	3529	7/7	0.94	0.11	125,127,138,197	0
82	MG	AR	3804	1/1	0.94	0.33	55,55,55,55	0
81	OHX	sR	1957	7/7	0.94	0.12	158,160,162,200	0
82	MG	AB	203	1/1	0.94	0.24	56,56,56,56	0
82	MG	CK	202	1/1	0.94	0.30	72,72,72,72	0
81	OHX	AR	3536	7/7	0.94	0.09	129,135,148,191	0
81	OHX	4	208	7/7	0.94	0.09	141,149,157,218	0
82	MG	AR	4093	1/1	0.94	0.17	58,58,58,58	0
82	MG	AR	3810	1/1	0.94	0.23	47,47,47,47	0
81	OHX	A	1953	7/7	0.94	0.08	205,206,211,241	0
82	MG	AR	4096	1/1	0.94	0.29	55,55,55,55	0
82	MG	CQ	201	1/1	0.94	0.13	80,80,80,80	0
81	OHX	4	210	7/7	0.94	0.10	120,122,136,195	0
82	MG	AF	203	1/1	0.94	0.09	50,50,50,50	0
81	OHX	AR	3625	7/7	0.94	0.08	198,200,207,262	0
82	MG	1	3863	1/1	0.94	0.21	74,74,74,74	0
82	MG	AR	3689	1/1	0.94	0.17	43,43,43,43	0
82	MG	AR	4106	1/1	0.94	0.12	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	CU	201	1/1	0.94	0.18	71,71,71,71	0
85	ZN	c	101	1/1	0.94	0.11	164,164,164,164	0
82	MG	AR	3690	1/1	0.94	0.10	44,44,44,44	0
82	MG	1	3685	1/1	0.94	0.22	43,43,43,43	0
82	MG	4	227	1/1	0.95	0.06	57,57,57,57	0
81	OHX	AR	3522	7/7	0.95	0.10	99,103,116,162	0
82	MG	A	1981	1/1	0.95	0.24	51,51,51,51	0
81	OHX	4	207	7/7	0.95	0.08	117,119,129,179	0
81	OHX	A	1958	7/7	0.95	0.08	147,156,160,220	0
82	MG	AR	4148	1/1	0.95	0.29	47,47,47,47	0
81	OHX	1	3495	7/7	0.95	0.09	113,123,128,179	0
82	MG	AR	4018	1/1	0.95	0.24	68,68,68,68	0
81	OHX	4	209	7/7	0.95	0.09	119,121,136,210	0
81	OHX	AR	3528	7/7	0.95	0.11	96,98,107,166	0
81	OHX	AT	208	7/7	0.95	0.12	96,102,113,157	0
81	OHX	AR	3624	7/7	0.95	0.08	130,135,141,200	0
81	OHX	sR	1983	7/7	0.95	0.10	120,128,132,182	0
82	MG	k	401	1/1	0.95	0.24	55,55,55,55	0
81	OHX	AT	210	7/7	0.95	0.09	132,133,144,196	0
82	MG	1	3635	1/1	0.95	0.12	65,65,65,65	0
81	OHX	AR	3529	7/7	0.95	0.10	82,92,99,161	0
82	MG	1	3638	1/1	0.95	0.07	47,47,47,47	0
81	OHX	AR	3530	7/7	0.95	0.11	120,126,128,191	0
82	MG	A	1999	1/1	0.95	0.31	74,74,74,74	0
81	OHX	AR	3531	7/7	0.95	0.10	136,140,149,190	0
81	OHX	1	4130	7/7	0.95	0.08	174,176,179,215	0
81	OHX	1	3496	7/7	0.95	0.09	122,129,133,179	0
81	OHX	1	3499	7/7	0.95	0.09	149,157,160,195	0
81	OHX	1	3464	7/7	0.95	0.12	97,102,107,157	0
82	MG	AR	4168	1/1	0.95	0.25	50,50,50,50	0
81	OHX	1	3477	7/7	0.95	0.10	91,101,105,152	0
82	MG	AR	4170	1/1	0.95	0.23	62,62,62,62	0
82	MG	v	302	1/1	0.95	0.08	49,49,49,49	0
82	MG	1	3933	1/1	0.95	0.10	67,67,67,67	0
81	OHX	k	402	7/7	0.95	0.09	125,129,142,193	0
82	MG	AR	4174	1/1	0.95	0.16	55,55,55,55	0
82	MG	AR	4176	1/1	0.95	0.26	56,56,56,56	0
81	OHX	1	3565	7/7	0.95	0.08	187,191,196,227	0
82	MG	A	2015	1/1	0.95	0.23	66,66,66,66	0
82	MG	AR	4178	1/1	0.95	0.13	59,59,59,59	0
82	MG	1	3648	1/1	0.95	0.06	54,54,54,54	0
82	MG	sR	2083	1/1	0.95	0.26	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	CL	301	7/7	0.95	0.10	134,139,146,195	0
82	MG	1	3742	1/1	0.95	0.31	44,44,44,44	0
81	OHX	AR	3547	7/7	0.95	0.10	121,125,137,192	0
81	OHX	1	3466	7/7	0.95	0.11	97,103,113,149	0
81	OHX	CP	303	7/7	0.95	0.09	133,142,146,203	0
81	OHX	AR	3549	7/7	0.95	0.11	118,121,129,194	0
81	OHX	CX	202	7/7	0.95	0.09	135,137,140,211	0
81	OHX	1	3549	7/7	0.95	0.11	121,124,132,198	0
81	OHX	z	201	7/7	0.95	0.13	123,128,131,195	0
81	OHX	1	4115	7/7	0.95	0.09	132,140,144,203	0
82	MG	AR	3793	1/1	0.95	0.20	43,43,43,43	0
81	OHX	A	1908	7/7	0.95	0.12	83,97,105,139	0
82	MG	1	3661	1/1	0.95	0.21	61,61,61,61	0
81	OHX	A	1914	7/7	0.95	0.12	125,128,130,176	0
81	OHX	A	1916	7/7	0.95	0.10	119,123,132,166	0
82	MG	sR	2099	1/1	0.95	0.13	50,50,50,50	0
82	MG	AR	4211	1/1	0.95	0.14	90,90,90,90	0
81	OHX	A	1917	7/7	0.95	0.10	114,118,126,176	0
82	MG	AR	4221	1/1	0.95	0.09	90,90,90,90	0
82	MG	AR	3799	1/1	0.95	0.36	49,49,49,49	0
82	MG	1	3665	1/1	0.95	0.20	49,49,49,49	0
82	MG	1	3956	1/1	0.95	0.15	43,43,43,43	0
82	MG	AF	204	1/1	0.95	0.07	47,47,47,47	0
82	MG	AG	201	1/1	0.95	0.06	50,50,50,50	0
81	OHX	1	3505	7/7	0.95	0.09	135,139,142,204	0
82	MG	AR	3939	1/1	0.95	0.06	68,68,68,68	0
81	OHX	A	1920	7/7	0.95	0.10	135,135,142,179	0
81	OHX	1	3486	7/7	0.95	0.11	105,114,120,180	0
81	OHX	1	3435	7/7	0.95	0.16	81,87,97,132	0
81	OHX	A	1925	7/7	0.95	0.10	137,140,145,189	0
82	MG	AS	3521	1/1	0.95	0.23	51,51,51,51	0
81	OHX	1	3488	7/7	0.95	0.14	103,108,113,164	0
81	OHX	A	1927	7/7	0.95	0.10	128,134,141,204	0
81	OHX	A	1928	7/7	0.95	0.08	141,145,149,200	0
81	OHX	A	1930	7/7	0.95	0.10	131,137,144,202	0
82	MG	1	3768	1/1	0.95	0.32	45,45,45,45	0
81	OHX	A	2143	6/7	0.95	0.09	146,150,156,214	0
81	OHX	A	1931	7/7	0.95	0.10	122,125,133,178	0
81	OHX	AR	3559	7/7	0.95	0.08	123,134,145,201	0
82	MG	1	3678	1/1	0.95	0.27	60,60,60,60	0
81	OHX	AR	3477	7/7	0.95	0.13	94,96,98,144	0
82	MG	1	3877	1/1	0.95	0.25	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	AR	3493	7/7	0.95	0.11	98,105,110,169	0
81	OHX	1	4121	7/7	0.95	0.09	150,157,166,208	0
82	MG	AR	3707	1/1	0.95	0.07	48,48,48,48	0
81	OHX	AR	3499	7/7	0.95	0.10	92,102,118,153	0
82	MG	A	2065	1/1	0.95	0.05	77,77,77,77	0
81	OHX	A	1937	7/7	0.95	0.10	150,154,161,216	0
82	MG	AR	4089	1/1	0.95	0.24	74,74,74,74	0
81	OHX	AR	3500	7/7	0.95	0.12	91,102,111,154	0
81	OHX	1	3538	7/7	0.95	0.08	144,148,155,212	0
82	MG	1	4085	1/1	0.95	0.10	81,81,81,81	0
82	MG	AR	3714	1/1	0.95	0.10	46,46,46,46	0
81	OHX	sR	1920	7/7	0.95	0.12	82,93,104,140	0
81	OHX	sR	1933	7/7	0.95	0.13	94,103,112,146	0
82	MG	AT	231	1/1	0.95	0.10	86,86,86,86	0
81	OHX	sR	1935	7/7	0.95	0.10	119,125,129,170	0
82	MG	1	3983	1/1	0.95	0.12	81,81,81,81	0
82	MG	AR	3719	1/1	0.95	0.23	47,47,47,47	0
82	MG	AR	4100	1/1	0.95	0.11	45,45,45,45	0
82	MG	1	4149	1/1	0.95	0.07	96,96,96,96	0
82	MG	AR	4102	1/1	0.95	0.17	79,79,79,79	0
81	OHX	AR	3566	7/7	0.95	0.09	139,148,153,220	0
82	MG	1	3691	1/1	0.95	0.11	67,67,67,67	0
82	MG	AR	3723	1/1	0.95	0.25	46,46,46,46	0
81	OHX	sR	1942	7/7	0.95	0.12	90,97,102,147	0
82	MG	1	4154	1/1	0.95	0.06	78,78,78,78	0
81	OHX	1	3456	7/7	0.95	0.12	91,93,107,140	0
81	OHX	sR	1953	7/7	0.95	0.09	158,159,163,206	0
82	MG	sR	2158	1/1	0.95	0.18	66,66,66,66	0
82	MG	CI	303	1/1	0.95	0.18	64,64,64,64	0
81	OHX	sR	1954	7/7	0.95	0.09	108,115,120,169	0
81	OHX	AR	3507	7/7	0.95	0.09	133,138,142,184	0
81	OHX	1	3540	7/7	0.95	0.11	125,130,133,194	0
82	MG	AR	3731	1/1	0.95	0.06	64,64,64,64	0
82	MG	AR	3856	1/1	0.95	0.26	45,45,45,45	0
81	OHX	A	1946	7/7	0.95	0.10	161,165,169,204	0
82	MG	AR	3860	1/1	0.95	0.40	41,41,41,41	0
81	OHX	sR	1962	7/7	0.95	0.11	124,130,137,198	0
82	MG	CQ	203	1/1	0.95	0.10	74,74,74,74	0
81	OHX	A	1947	7/7	0.95	0.09	154,158,164,213	0
81	OHX	1	3557	7/7	0.95	0.09	135,136,155,205	0
82	MG	A	2150	1/1	0.95	0.07	65,65,65,65	0
81	OHX	1	3523	7/7	0.95	0.08	125,125,138,183	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	1	3596	7/7	0.95	0.14	88,99,106,164	0
82	MG	H	301	1/1	0.95	0.06	76,76,76,76	0
81	OHX	sR	1968	7/7	0.95	0.09	120,126,132,180	0
81	OHX	4	201	7/7	0.95	0.10	101,109,112,166	0
82	MG	AR	3741	1/1	0.95	0.28	41,41,41,41	0
82	MG	1	3809	1/1	0.95	0.08	55,55,55,55	0
82	MG	AR	3871	1/1	0.95	0.08	51,51,51,51	0
82	MG	AR	3872	1/1	0.95	0.09	51,51,51,51	0
81	OHX	sR	1970	7/7	0.95	0.10	129,138,148,199	0
82	MG	AR	4130	1/1	0.95	0.12	54,54,54,54	0
82	MG	1	3619	1/1	0.95	0.23	53,53,53,53	0
81	OHX	AS	3505	7/7	0.95	0.11	100,104,122,157	0
81	OHX	1	3470	7/7	0.95	0.12	90,100,102,148	0
82	MG	AR	4004	1/1	0.95	0.27	57,57,57,57	0
82	MG	4	222	1/1	0.95	0.12	40,40,40,40	0
81	OHX	AS	3508	7/7	0.95	0.09	109,114,122,173	0
82	MG	AR	3879	1/1	0.95	0.21	41,41,41,41	0
83	SPD	1	4144	10/10	0.95	0.13	43,43,44,44	0
82	MG	4	224	1/1	0.95	0.08	61,61,61,61	0
82	MG	DQ	503	1/1	0.95	0.12	66,66,66,66	0
81	OHX	sR	1974	7/7	0.95	0.09	123,125,137,187	0
85	ZN	AH	201	1/1	0.95	0.10	147,147,147,147	0
85	ZN	AP	501	1/1	0.95	0.11	103,103,103,103	0
82	MG	sM	301	1/1	0.95	0.08	48,48,48,48	0
82	MG	AR	3883	1/1	0.95	0.06	53,53,53,53	0
82	MG	1	3912	1/1	0.95	0.28	61,61,61,61	0
82	MG	AR	4143	1/1	0.95	0.25	59,59,59,59	0
81	OHX	1	3444	7/7	0.96	0.10	101,113,120,151	0
81	OHX	AR	3545	7/7	0.96	0.09	126,128,135,194	0
81	OHX	A	1941	7/7	0.96	0.10	149,149,156,215	0
82	MG	AR	3938	1/1	0.96	0.10	55,55,55,55	0
82	MG	1	3637	1/1	0.96	0.26	52,52,52,52	0
81	OHX	sR	1964	7/7	0.96	0.09	115,118,119,176	0
82	MG	CQ	204	1/1	0.96	0.36	58,58,58,58	0
81	OHX	1	3451	7/7	0.96	0.14	77,95,103,134	0
81	OHX	r	304	7/7	0.96	0.10	93,100,107,151	0
81	OHX	1	3489	7/7	0.96	0.11	98,100,109,163	0
82	MG	1	4001	1/1	0.96	0.21	67,67,67,67	0
82	MG	r	302	1/1	0.96	0.11	47,47,47,47	0
81	OHX	A	1945	7/7	0.96	0.09	146,148,152,194	0
81	OHX	1	3441	7/7	0.96	0.11	90,94,98,133	0
81	OHX	AR	3550	7/7	0.96	0.09	127,131,135,184	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	1	3457	7/7	0.96	0.12	93,96,101,133	0
81	OHX	1	3492	7/7	0.96	0.09	128,128,140,191	0
81	OHX	AR	3553	7/7	0.96	0.12	116,121,127,203	0
82	MG	1	3760	1/1	0.96	0.23	60,60,60,60	0
81	OHX	1	3493	7/7	0.96	0.09	124,127,131,190	0
81	OHX	1	3494	7/7	0.96	0.09	104,109,115,158	0
81	OHX	AR	3440	7/7	0.96	0.10	78,87,92,119	0
81	OHX	AR	3441	7/7	0.96	0.12	81,89,90,116	0
81	OHX	1	3473	7/7	0.96	0.09	114,118,123,165	0
82	MG	AR	3959	1/1	0.96	0.13	68,68,68,68	0
82	MG	DL	101	1/1	0.96	0.22	57,57,57,57	0
81	OHX	AR	3449	7/7	0.96	0.12	98,107,116,142	0
81	OHX	AR	3455	7/7	0.96	0.14	83,88,95,134	0
82	MG	AR	3808	1/1	0.96	0.37	50,50,50,50	0
81	OHX	AR	3460	7/7	0.96	0.11	68,83,90,121	0
82	MG	x	208	1/1	0.96	0.32	60,60,60,60	0
81	OHX	1	3459	7/7	0.96	0.11	98,101,105,142	0
81	OHX	AR	3473	7/7	0.96	0.12	82,89,102,133	0
82	MG	A	1977	1/1	0.96	0.26	52,52,52,52	0
82	MG	1	3659	1/1	0.96	0.04	53,53,53,53	0
81	OHX	AR	3474	7/7	0.96	0.11	76,95,98,144	0
81	OHX	AR	3475	7/7	0.96	0.13	82,96,104,132	0
82	MG	1	3775	1/1	0.96	0.21	45,45,45,45	0
82	MG	1	3776	1/1	0.96	0.23	43,43,43,43	0
81	OHX	1	4099	7/7	0.96	0.13	79,91,100,136	0
81	OHX	AR	3479	7/7	0.96	0.10	79,84,99,132	0
81	OHX	AT	201	7/7	0.96	0.09	108,113,117,179	0
82	MG	AR	4134	1/1	0.96	0.25	43,43,43,43	0
82	MG	AR	3821	1/1	0.96	0.21	47,47,47,47	0
81	OHX	AR	3483	7/7	0.96	0.09	97,111,120,172	0
82	MG	AR	3823	1/1	0.96	0.14	40,40,40,40	0
82	MG	1	4029	1/1	0.96	0.14	43,43,43,43	0
81	OHX	AR	3484	7/7	0.96	0.10	85,91,104,141	0
82	MG	A	1992	1/1	0.96	0.20	58,58,58,58	0
82	MG	AR	3826	1/1	0.96	0.27	55,55,55,55	0
82	MG	AR	3982	1/1	0.96	0.17	64,64,64,64	0
81	OHX	AR	3487	7/7	0.96	0.10	91,98,107,148	0
81	OHX	AR	3488	7/7	0.96	0.09	110,119,123,162	0
81	OHX	A	1971	7/7	0.96	0.12	94,97,106,127	0
82	MG	1	3908	1/1	0.96	0.07	65,65,65,65	0
82	MG	AR	3831	1/1	0.96	0.37	53,53,53,53	0
81	OHX	AR	3492	7/7	0.96	0.09	92,100,112,151	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	1	4101	7/7	0.96	0.09	123,126,129,174	0
81	OHX	1	3568	7/7	0.96	0.11	95,97,103,152	0
82	MG	AR	3835	1/1	0.96	0.25	42,42,42,42	0
81	OHX	AR	3495	7/7	0.96	0.10	97,105,111,178	0
81	OHX	AT	214	7/7	0.96	0.07	146,155,157,209	0
82	MG	1	3792	1/1	0.96	0.29	51,51,51,51	0
82	MG	AR	3839	1/1	0.96	0.31	42,42,42,42	0
82	MG	AR	4155	1/1	0.96	0.26	68,68,68,68	0
82	MG	AR	3840	1/1	0.96	0.25	43,43,43,43	0
81	OHX	A	2113	7/7	0.96	0.09	129,131,138,189	0
82	MG	1	4043	1/1	0.96	0.25	46,46,46,46	0
82	MG	1	4044	1/1	0.96	0.22	58,58,58,58	0
81	OHX	sR	2000	7/7	0.96	0.10	118,122,133,195	0
82	MG	A	2014	1/1	0.96	0.07	74,74,74,74	0
81	OHX	A	2114	7/7	0.96	0.11	116,122,126,171	0
81	OHX	A	2115	7/7	0.96	0.07	137,142,147,192	0
82	MG	A	2017	1/1	0.96	0.15	68,68,68,68	0
82	MG	1	4048	1/1	0.96	0.17	50,50,50,50	0
81	OHX	AR	3496	7/7	0.96	0.10	93,99,103,161	0
81	OHX	A	2117	7/7	0.96	0.11	114,118,126,169	0
82	MG	AR	3850	1/1	0.96	0.29	43,43,43,43	0
82	MG	sR	2107	1/1	0.96	0.07	62,62,62,62	0
81	OHX	1	3497	7/7	0.96	0.10	114,115,125,171	0
82	MG	1	3801	1/1	0.96	0.31	42,42,42,42	0
81	OHX	CE	403	7/7	0.96	0.08	101,107,118,166	0
82	MG	AR	4011	1/1	0.96	0.20	69,69,69,69	0
81	OHX	1	3519[A]	7/7	0.96	0.14	96,101,107,129	7
82	MG	sR	2113	1/1	0.96	0.07	69,69,69,69	0
81	OHX	AR	3501	7/7	0.96	0.11	129,131,133,207	0
82	MG	1	3806	1/1	0.96	0.14	48,48,48,48	0
81	OHX	1	3519[B]	7/7	0.96	0.14	95,99,104,118	7
81	OHX	A	2125	7/7	0.96	0.08	128,131,134,191	0
81	OHX	3	202	7/7	0.96	0.09	119,126,130,177	0
82	MG	1	3810	1/1	0.96	0.18	46,46,46,46	0
81	OHX	1	4109	7/7	0.96	0.11	93,99,103,166	0
81	OHX	1	4110	7/7	0.96	0.10	116,118,124,170	0
82	MG	sR	2122	1/1	0.96	0.05	67,67,67,67	0
81	OHX	AR	3512	7/7	0.96	0.08	111,116,127,177	0
81	OHX	1	4112	7/7	0.96	0.09	123,124,132,190	0
82	MG	1	3693	1/1	0.96	0.22	51,51,51,51	0
82	MG	AR	4024	1/1	0.96	0.08	58,58,58,58	0
81	OHX	1	4113	7/7	0.96	0.08	107,109,120,176	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	AR	3870	1/1	0.96	0.16	44,44,44,44	0
81	OHX	1	3498	7/7	0.96	0.08	136,139,148,194	0
82	MG	1	3818	1/1	0.96	0.08	64,64,64,64	0
82	MG	1	3940	1/1	0.96	0.14	55,55,55,55	0
82	MG	1	3941	1/1	0.96	0.05	51,51,51,51	0
81	OHX	AR	3516	7/7	0.96	0.10	101,112,121,167	0
81	OHX	1	3476	7/7	0.96	0.08	113,114,124,163	0
81	OHX	AR	3519	7/7	0.96	0.10	102,113,116,175	0
81	OHX	AR	3520	7/7	0.96	0.09	118,124,131,186	0
82	MG	sR	2137	1/1	0.96	0.13	90,90,90,90	0
81	OHX	1	3500	7/7	0.96	0.09	158,162,166,215	0
82	MG	AR	4215	1/1	0.96	0.11	52,52,52,52	0
82	MG	1	3701	1/1	0.96	0.36	63,63,63,63	0
81	OHX	A	1911	7/7	0.96	0.10	102,107,116,147	0
81	OHX	1	3463	7/7	0.96	0.10	89,96,104,135	0
81	OHX	A	1915	7/7	0.96	0.09	109,118,128,170	0
82	MG	AR	3885	1/1	0.96	0.11	46,46,46,46	0
81	OHX	1	3502	7/7	0.96	0.14	99,104,114,165	0
81	OHX	AR	3525	7/7	0.96	0.10	103,113,118,173	0
82	MG	1	4146	1/1	0.96	0.10	70,70,70,70	0
81	OHX	4	206	7/7	0.96	0.09	96,100,109,156	0
82	MG	AR	3742	1/1	0.96	0.29	43,43,43,43	0
81	OHX	1	4119	7/7	0.96	0.08	140,143,149,201	0
81	OHX	1	3478	7/7	0.96	0.10	98,101,110,151	0
82	MG	AR	4048	1/1	0.96	0.07	50,50,50,50	0
81	OHX	1	3479	7/7	0.96	0.10	102,105,123,173	0
82	MG	AR	3746	1/1	0.96	0.25	41,41,41,41	0
81	OHX	1	3442	7/7	0.96	0.11	98,101,113,138	0
81	OHX	1	3484	7/7	0.96	0.10	100,108,117,162	0
81	OHX	4	212	7/7	0.96	0.07	145,148,156,217	0
82	MG	AR	3899	1/1	0.96	0.06	64,64,64,64	0
82	MG	AS	3527	1/1	0.96	0.35	53,53,53,53	0
82	MG	AR	4055	1/1	0.96	0.15	61,61,61,61	0
81	OHX	AR	3533	7/7	0.96	0.09	120,128,137,203	0
81	OHX	sR	1911	7/7	0.96	0.12	91,102,107,128	0
81	OHX	A	1929	7/7	0.96	0.09	126,128,134,183	0
82	MG	3	209	1/1	0.96	0.32	55,55,55,55	0
81	OHX	sR	1922	7/7	0.96	0.12	105,110,115,136	0
81	OHX	sR	1923	7/7	0.96	0.10	99,101,105,143	0
81	OHX	sR	1925	7/7	0.96	0.11	98,102,110,145	0
81	OHX	AR	3606	7/7	0.96	0.11	104,105,109,170	0
81	OHX	sR	1934	7/7	0.96	0.11	77,84,94,140	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
82	MG	1	3845	1/1	0.96	0.18	53,53,53,53	0
81	OHX	1	3465	7/7	0.96	0.13	91,99,105,144	0
81	OHX	1	3530	7/7	0.96	0.08	145,147,152,201	0
81	OHX	1	3531	7/7	0.96	0.11	91,96,102,156	0
81	OHX	sR	1943	7/7	0.96	0.09	121,124,130,174	0
81	OHX	sR	1944	7/7	0.96	0.07	108,113,119,161	0
81	OHX	sR	1945	7/7	0.96	0.08	129,133,137,179	0
81	OHX	sR	1946	7/7	0.96	0.10	109,116,122,172	0
81	OHX	sR	1947	7/7	0.96	0.09	117,124,125,197	0
81	OHX	sR	1950[A]	7/7	0.96	0.21	111,115,118,123	7
82	MG	CD	302	1/1	0.96	0.34	41,41,41,41	0
81	OHX	sR	1950[B]	7/7	0.96	0.21	111,115,123,151	7
81	OHX	AR	3538	7/7	0.96	0.08	125,126,136,181	0
82	MG	AR	3771	1/1	0.96	0.15	64,64,64,64	0
81	OHX	AR	3539	7/7	0.96	0.11	92,100,106,163	0
82	MG	1	3627	1/1	0.96	0.23	58,58,58,58	0
82	MG	AR	3774	1/1	0.96	0.07	49,49,49,49	0
82	MG	AR	3925	1/1	0.96	0.24	62,62,62,62	0
82	MG	A	2147	1/1	0.96	0.07	95,95,95,95	0
82	MG	A	2149	1/1	0.96	0.08	84,84,84,84	0
81	OHX	AR	3540	7/7	0.96	0.10	117,127,135,186	0
82	MG	1	3985	1/1	0.96	0.24	55,55,55,55	0
82	MG	1	3861	1/1	0.96	0.24	53,53,53,53	0
81	OHX	sR	1955	7/7	0.96	0.08	148,152,153,194	0
82	MG	1	3740	1/1	0.96	0.33	60,60,60,60	0
81	OHX	4	235	7/7	0.96	0.10	99,105,113,160	0
81	OHX	AR	3543	7/7	0.96	0.12	107,110,117,174	0
81	OHX	sR	1959	7/7	0.96	0.09	107,115,122,178	0
81	OHX	sR	1960	7/7	0.96	0.08	125,130,137,184	0
81	OHX	1	3485[B]	7/7	0.97	0.25	90,91,95,124	7
81	OHX	1	3440	7/7	0.97	0.09	81,91,97,131	0
81	OHX	A	1918	7/7	0.97	0.07	123,125,129,175	0
81	OHX	A	2123	7/7	0.97	0.08	118,122,124,173	0
81	OHX	3	219	7/7	0.97	0.08	105,109,120,164	0
81	OHX	AR	3443	7/7	0.97	0.11	74,79,88,115	0
81	OHX	AR	3518	7/7	0.97	0.09	117,120,127,169	0
81	OHX	AR	3444	7/7	0.97	0.10	74,79,96,110	0
81	OHX	1	4075	7/7	0.97	0.09	104,108,116,167	0
82	MG	A	2074	1/1	0.97	0.09	71,71,71,71	0
81	OHX	AR	3450	7/7	0.97	0.11	81,81,86,114	0
81	OHX	AR	3451	7/7	0.97	0.10	99,104,111,132	0
82	MG	1	3802	1/1	0.97	0.44	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	AR	3580	7/7	0.97	0.10	107,110,112,167	0
81	OHX	AR	3452	7/7	0.97	0.11	91,95,101,138	0
82	MG	1	3717	1/1	0.97	0.47	62,62,62,62	0
82	MG	AR	4077	1/1	0.97	0.05	77,77,77,77	0
81	OHX	1	4096	7/7	0.97	0.10	89,91,102,129	0
82	MG	A	2083	1/1	0.97	0.29	51,51,51,51	0
81	OHX	AR	3456	7/7	0.97	0.12	80,88,104,126	0
81	OHX	1	3453	7/7	0.97	0.10	85,94,104,128	0
81	OHX	AR	3463	7/7	0.97	0.12	83,86,98,130	0
82	MG	AR	3981	1/1	0.97	0.17	61,61,61,61	0
82	MG	AR	3882	1/1	0.97	0.24	60,60,60,60	0
81	OHX	A	2138	7/7	0.97	0.08	115,119,122,176	0
81	OHX	AR	3466	7/7	0.97	0.09	95,100,103,137	0
81	OHX	AR	3467	7/7	0.97	0.09	83,87,99,133	0
81	OHX	AR	3471	7/7	0.97	0.09	94,96,101,143	0
82	MG	AR	3694	1/1	0.97	0.08	44,44,44,44	0
82	MG	AR	4207	1/1	0.97	0.07	95,95,95,95	0
81	OHX	1	4100	7/7	0.97	0.09	92,99,103,156	0
82	MG	AR	3989	1/1	0.97	0.16	60,60,60,60	0
82	MG	AR	4214	1/1	0.97	0.16	108,108,108,108	0
81	OHX	AS	3501	7/7	0.97	0.08	92,98,109,149	0
81	OHX	1	3454	7/7	0.97	0.10	90,96,107,139	0
81	OHX	AR	3534	7/7	0.97	0.10	86,89,97,127	0
81	OHX	AS	3507	7/7	0.97	0.09	93,97,100,148	0
82	MG	A	2146	1/1	0.97	0.20	70,70,70,70	0
81	OHX	1	4102	7/7	0.97	0.08	111,117,120,158	0
81	OHX	1	3455	7/7	0.97	0.11	92,99,106,135	0
81	OHX	AR	3476	7/7	0.97	0.10	91,98,104,145	0
81	OHX	T	201	7/7	0.97	0.10	108,113,119,140	0
82	MG	AR	3704	1/1	0.97	0.14	49,49,49,49	0
82	MG	1	3910	1/1	0.97	0.31	55,55,55,55	0
82	MG	AR	4103	1/1	0.97	0.13	56,56,56,56	0
81	OHX	1	4104	7/7	0.97	0.10	91,96,102,148	0
82	MG	1	4156	1/1	0.97	0.05	80,80,80,80	0
81	OHX	AR	3478[A]	7/7	0.97	0.19	72,74,81,81	7
81	OHX	AR	3478[B]	7/7	0.97	0.19	74,74,79,86	7
82	MG	sR	2138	1/1	0.97	0.09	70,70,70,70	0
81	OHX	AR	3541	7/7	0.97	0.08	147,151,156,185	0
81	OHX	1	3422	7/7	0.97	0.16	75,84,90,115	0
81	OHX	AR	3480	7/7	0.97	0.09	88,94,108,150	0
81	OHX	AR	3481	7/7	0.97	0.09	88,91,109,137	0
81	OHX	1	4106	7/7	0.97	0.13	70,77,89,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	sR	1927	7/7	0.97	0.08	102,108,112,148	0
81	OHX	sR	1928	7/7	0.97	0.08	93,96,108,156	0
81	OHX	sR	1932	7/7	0.97	0.09	95,98,107,145	0
82	MG	sR	2036	1/1	0.97	0.23	59,59,59,59	0
81	OHX	1	3472	7/7	0.97	0.08	94,101,110,146	0
81	OHX	AR	3485	7/7	0.97	0.09	90,93,98,139	0
81	OHX	AR	3486	7/7	0.97	0.09	85,91,95,128	0
81	OHX	sR	1936	7/7	0.97	0.09	97,103,109,153	0
81	OHX	sR	1938	7/7	0.97	0.09	98,105,109,148	0
81	OHX	sR	1939	7/7	0.97	0.09	104,109,115,148	0
81	OHX	sR	1940	7/7	0.97	0.09	111,113,121,169	0
81	OHX	1	3436	7/7	0.97	0.11	86,93,100,124	0
81	OHX	1	3458	7/7	0.97	0.11	90,95,106,143	0
81	OHX	AR	3490	7/7	0.97	0.09	90,101,107,164	0
81	OHX	AR	3491	7/7	0.97	0.09	107,108,114,170	0
81	OHX	1	3475	7/7	0.97	0.10	95,100,112,156	0
81	OHX	1	4111	7/7	0.97	0.08	103,110,116,162	0
81	OHX	1	3437	7/7	0.97	0.11	74,83,92,114	0
81	OHX	sR	1948	7/7	0.97	0.09	105,109,114,165	0
82	MG	1	3849	1/1	0.97	0.08	52,52,52,52	0
82	MG	A	2029	1/1	0.97	0.14	54,54,54,54	0
81	OHX	sR	1949	7/7	0.97	0.08	100,107,115,163	0
81	OHX	1	3460	7/7	0.97	0.09	93,95,110,145	0
82	MG	AR	3737	1/1	0.97	0.34	50,50,50,50	0
82	MG	sR	2179	1/1	0.97	0.11	94,94,94,94	0
81	OHX	1	3461	7/7	0.97	0.09	98,102,106,160	0
82	MG	1	3682	1/1	0.97	0.20	62,62,62,62	0
81	OHX	1	3462	7/7	0.97	0.09	102,102,108,138	0
81	OHX	sR	1952	7/7	0.97	0.07	119,126,132,166	0
82	MG	j	302	1/1	0.97	0.11	43,43,43,43	0
81	OHX	1	3449	7/7	0.97	0.10	95,100,107,140	0
81	OHX	1	3481	7/7	0.97	0.07	99,109,113,149	0
81	OHX	CQ	202	7/7	0.97	0.09	83,91,99,147	0
81	OHX	1	3483	7/7	0.97	0.08	123,127,135,185	0
82	MG	AR	3940	1/1	0.97	0.22	52,52,52,52	0
81	OHX	AR	3503	7/7	0.97	0.08	97,105,115,164	0
82	MG	1	3774	1/1	0.97	0.33	46,46,46,46	0
82	MG	1	3862	1/1	0.97	0.12	44,44,44,44	0
82	MG	1	4041	1/1	0.97	0.20	51,51,51,51	0
81	OHX	sR	1958	7/7	0.97	0.09	111,117,120,165	0
81	OHX	AR	3504	7/7	0.97	0.09	89,96,102,138	0
81	OHX	AR	3505	7/7	0.97	0.09	103,104,113,168	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
81	OHX	1	3450	7/7	0.97	0.09	92,93,100,128	0
82	MG	CP	302	1/1	0.97	0.10	57,57,57,57	0
82	MG	1	3955	1/1	0.97	0.07	54,54,54,54	0
81	OHX	A	1906	7/7	0.97	0.10	100,104,108,133	0
81	OHX	A	1907	7/7	0.97	0.09	117,124,128,154	0
81	OHX	AK	103	7/7	0.97	0.10	86,96,102,129	0
81	OHX	1	3485[A]	7/7	0.97	0.25	90,93,94,96	7
81	OHX	A	1912	7/7	0.97	0.08	108,113,114,155	0
81	OHX	A	1913	7/7	0.97	0.08	117,128,131,173	0
82	MG	AR	3857	1/1	0.97	0.19	49,49,49,49	0
82	MG	1	3786	1/1	0.97	0.36	46,46,46,46	0
82	MG	AR	3859	1/1	0.97	0.34	43,43,43,43	0
85	ZN	DQ	501	1/1	0.97	0.07	136,136,136,136	0
85	ZN	DR	501	1/1	0.97	0.04	85,85,85,85	0
81	OHX	AR	3430	7/7	0.97	0.12	79,86,89,116	0
81	OHX	A	2118	7/7	0.97	0.08	115,120,124,178	0
85	ZN	d9	101	1/1	0.97	0.05	97,97,97,97	0
81	OHX	AR	3432	7/7	0.97	0.14	75,84,88,106	0
81	OHX	1	3425	7/7	0.98	0.09	81,83,89,106	0
81	OHX	1	3426	7/7	0.98	0.09	84,90,99,104	0
82	MG	1	3737	1/1	0.98	0.30	45,45,45,45	0
81	OHX	AR	3433	7/7	0.98	0.11	79,87,100,110	0
81	OHX	AR	3434	7/7	0.98	0.11	82,84,95,103	0
81	OHX	AR	3435	7/7	0.98	0.10	78,84,97,108	0
81	OHX	AR	3497	7/7	0.98	0.06	120,125,130,166	0
81	OHX	AR	3498	7/7	0.98	0.07	105,110,118,151	0
81	OHX	AR	3436	7/7	0.98	0.09	79,86,90,109	0
81	OHX	1	3535[A]	7/7	0.98	0.19	86,89,97,97	7
81	OHX	A	1921	7/7	0.98	0.07	124,128,131,176	0
81	OHX	A	1922	7/7	0.98	0.07	111,119,127,158	0
82	MG	1	3652	1/1	0.98	0.30	52,52,52,52	0
81	OHX	1	3535[B]	7/7	0.98	0.19	84,89,96,108	7
81	OHX	1	3443	7/7	0.98	0.08	83,85,93,125	0
81	OHX	3	220	7/7	0.98	0.08	96,103,115,150	0
81	OHX	A	2137	7/7	0.98	0.07	93,97,103,133	0
82	MG	AR	4082	1/1	0.98	0.06	65,65,65,65	0
81	OHX	1	3427	7/7	0.98	0.08	86,88,98,124	0
81	OHX	AR	3446	7/7	0.98	0.10	76,84,90,101	0
82	MG	1	4050	1/1	0.98	0.29	53,53,53,53	0
81	OHX	AR	3447	7/7	0.98	0.08	82,90,95,120	0
81	OHX	AR	3448	7/7	0.98	0.10	87,93,101,127	0
81	OHX	AR	3508	7/7	0.98	0.10	77,79,88,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	4208	1/1	0.98	0.11	82,82,82,82	0
81	OHX	1	3445	7/7	0.98	0.10	92,97,98,138	0
81	OHX	AR	3510	7/7	0.98	0.06	107,110,118,156	0
82	MG	AR	4213	1/1	0.98	0.05	77,77,77,77	0
81	OHX	AR	3511[A]	7/7	0.98	0.12	80,81,85,99	7
81	OHX	AR	3511[B]	7/7	0.98	0.12	83,85,85,111	7
81	OHX	1	3467[A]	6/7	0.98	0.22	69,73,78,79	6
82	MG	AR	4219	1/1	0.98	0.07	43,43,43,43	0
82	MG	AR	4220	1/1	0.98	0.10	50,50,50,50	0
81	OHX	1	3467[B]	6/7	0.98	0.22	75,78,82,112	6
81	OHX	4	205	7/7	0.98	0.09	78,87,91,114	0
81	OHX	AS	3503	7/7	0.98	0.09	83,86,90,116	0
81	OHX	AS	3504	7/7	0.98	0.09	90,94,99,127	0
82	MG	AR	4098	1/1	0.98	0.11	63,63,63,63	0
81	OHX	AR	3577	7/7	0.98	0.08	96,101,111,166	0
81	OHX	AR	3453	7/7	0.98	0.07	84,85,96,120	0
81	OHX	AR	3454	7/7	0.98	0.10	94,95,97,129	0
81	OHX	sR	1915	7/7	0.98	0.10	96,98,102,118	0
82	MG	AR	3895	1/1	0.98	0.16	42,42,42,42	0
81	OHX	sR	1918	7/7	0.98	0.09	84,91,95,122	0
82	MG	1	3869	1/1	0.98	0.06	70,70,70,70	0
81	OHX	1	4097	7/7	0.98	0.09	87,95,98,131	0
81	OHX	sR	1921	7/7	0.98	0.08	92,97,105,143	0
81	OHX	1	3447	7/7	0.98	0.10	74,84,96,119	0
81	OHX	AR	3457	7/7	0.98	0.07	80,86,91,115	0
81	OHX	sR	1924	7/7	0.98	0.07	88,95,101,127	0
81	OHX	AR	3458	7/7	0.98	0.10	79,88,99,129	0
82	MG	1	3974	1/1	0.98	0.08	72,72,72,72	0
81	OHX	sR	1926	7/7	0.98	0.09	93,95,102,139	0
81	OHX	AR	3459	7/7	0.98	0.11	76,81,97,99	0
82	MG	1	3780	1/1	0.98	0.32	46,46,46,46	0
81	OHX	A	1948	7/7	0.98	0.07	110,111,122,152	0
81	OHX	sR	1929	7/7	0.98	0.08	110,116,121,154	0
81	OHX	sR	1930	7/7	0.98	0.07	119,122,127,152	0
81	OHX	sR	1931	7/7	0.98	0.08	90,94,96,127	0
81	OHX	1	3448	7/7	0.98	0.08	81,86,94,116	0
81	OHX	AR	3461	7/7	0.98	0.09	86,95,99,131	0
81	OHX	AT	207	7/7	0.98	0.11	83,86,93,108	0
81	OHX	AR	3524	7/7	0.98	0.08	116,117,121,172	0
81	OHX	AR	3462	7/7	0.98	0.08	89,94,101,131	0
81	OHX	sR	1937	7/7	0.98	0.08	93,94,102,137	0
81	OHX	1	3429	7/7	0.98	0.09	85,87,97,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
82	MG	AR	3713	1/1	0.98	0.10	46,46,46,46	0
81	OHX	AR	3464	7/7	0.98	0.09	82,88,94,113	0
81	OHX	AR	3465	7/7	0.98	0.11	92,94,102,121	0
81	OHX	1	3471	7/7	0.98	0.08	89,96,98,135	0
82	MG	1	3795	1/1	0.98	0.36	50,50,50,50	0
81	OHX	1	3430	7/7	0.98	0.12	78,86,91,106	0
81	OHX	AR	3469	7/7	0.98	0.08	90,97,102,136	0
81	OHX	1	3431	7/7	0.98	0.10	82,83,101,113	0
82	MG	sR	2180	1/1	0.98	0.10	85,85,85,85	0
82	MG	sR	2181	1/1	0.98	0.07	76,76,76,76	0
82	MG	sR	2182	1/1	0.98	0.13	59,59,59,59	0
81	OHX	1	3452	7/7	0.98	0.09	100,102,107,138	0
81	OHX	1	3432	7/7	0.98	0.10	86,89,96,116	0
81	OHX	1	3433	7/7	0.98	0.10	81,86,97,113	0
81	OHX	1	3434	7/7	0.98	0.10	88,91,95,120	0
81	OHX	1	3419	7/7	0.98	0.10	81,84,94,99	0
81	OHX	1	3418	7/7	0.98	0.11	75,86,93,101	0
81	OHX	1	3423	7/7	0.98	0.13	61,79,88,107	0
82	MG	1	3708	1/1	0.98	0.14	43,43,43,43	0
81	OHX	1	3438	7/7	0.98	0.10	86,92,103,133	0
81	OHX	1	3482[A]	7/7	0.98	0.14	84,85,98,101	7
81	OHX	1	3482[B]	7/7	0.98	0.14	88,88,98,111	7
82	MG	1	4007	1/1	0.98	0.15	49,49,49,49	0
81	OHX	1	4143	7/7	0.98	0.10	104,108,111,114	0
81	OHX	AR	3482	7/7	0.98	0.07	83,89,93,122	0
81	OHX	CX	201	7/7	0.98	0.09	88,90,101,126	0
82	MG	d3	203	1/1	0.98	0.28	86,86,86,86	0
81	OHX	3	201	7/7	0.98	0.07	85,87,100,118	0
81	OHX	DD	101	7/7	0.98	0.10	69,79,90,92	0
81	OHX	1	3439	7/7	0.98	0.08	97,99,103,139	0
81	OHX	A	2106	7/7	0.98	0.08	94,98,103,123	0
81	OHX	A	2107	7/7	0.98	0.09	93,102,110,122	0
81	OHX	A	2108	7/7	0.98	0.10	97,99,106,141	0
81	OHX	A	2109	7/7	0.98	0.08	95,100,102,129	0
81	OHX	A	2110	7/7	0.98	0.08	99,100,103,133	0
81	OHX	A	2111	7/7	0.98	0.08	95,101,105,148	0
81	OHX	A	2112	7/7	0.98	0.07	124,127,130,168	0
81	OHX	1	3424	7/7	0.98	0.10	78,85,99,104	0
81	OHX	AR	3413	7/7	0.98	0.11	80,89,92,95	0
81	OHX	A	1901	7/7	0.98	0.12	85,95,98,108	0
81	OHX	A	1903	7/7	0.98	0.10	86,89,99,122	0
81	OHX	AR	3414	7/7	0.98	0.14	84,85,92,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	AR	3416	7/7	0.98	0.11	58,73,82,91	0
81	OHX	AR	3418	7/7	0.98	0.11	65,80,88,89	0
81	OHX	A	1909	7/7	0.98	0.08	94,97,101,130	0
81	OHX	A	1910	7/7	0.98	0.08	101,103,111,142	0
81	OHX	AR	3427	7/7	0.98	0.12	59,81,85,95	0
81	OHX	1	4087	7/7	0.99	0.12	63,68,74,76	0
81	OHX	AR	3428	7/7	0.99	0.07	75,81,87,103	0
81	OHX	AR	3429	7/7	0.99	0.09	75,81,86,102	0
81	OHX	1	4088	7/7	0.99	0.10	64,67,73,75	0
82	MG	AR	3853	1/1	0.99	0.34	49,49,49,49	0
82	MG	A	2148	1/1	0.99	0.10	52,52,52,52	0
81	OHX	AR	3431	7/7	0.99	0.09	80,82,90,90	0
81	OHX	1	4089	7/7	0.99	0.09	76,78,84,85	0
81	OHX	AR	4179	7/7	0.99	0.12	60,67,75,77	0
81	OHX	s1	301	7/7	0.99	0.09	74,82,91,102	0
81	OHX	1	4090	6/7	0.99	0.10	72,79,83,90	0
81	OHX	1	4091	7/7	0.99	0.10	80,85,92,97	0
81	OHX	1	4092	7/7	0.99	0.09	78,81,84,95	0
81	OHX	4	204	7/7	0.99	0.10	69,78,83,83	0
81	OHX	AR	3437	7/7	0.99	0.09	74,83,87,94	0
81	OHX	AR	3438	7/7	0.99	0.09	80,82,89,104	0
81	OHX	AR	3439	7/7	0.99	0.07	91,97,99,123	0
81	OHX	1	4093	7/7	0.99	0.09	80,82,91,92	0
81	OHX	1	4094	7/7	0.99	0.07	80,88,91,96	0
81	OHX	1	4095	7/7	0.99	0.08	90,92,97,125	0
81	OHX	1	3446	7/7	0.99	0.06	92,94,100,129	0
81	OHX	1	3408	7/7	0.99	0.09	72,77,81,81	0
81	OHX	AR	3445	7/7	0.99	0.09	78,81,85,114	0
81	OHX	1	4098	7/7	0.99	0.09	77,81,88,107	0
81	OHX	1	3428	7/7	0.99	0.09	78,83,87,96	0
81	OHX	1	3410	7/7	0.99	0.07	82,83,88,100	0
81	OHX	1	3411	7/7	0.99	0.11	72,75,84,85	0
81	OHX	1	3412	7/7	0.99	0.08	78,79,90,94	0
81	OHX	1	3413	7/7	0.99	0.10	74,75,83,93	0
81	OHX	1	3414	7/7	0.99	0.10	74,80,86,94	0
81	OHX	1	3415	7/7	0.99	0.13	74,81,83,89	0
81	OHX	1	3416	7/7	0.99	0.09	81,82,91,96	0
81	OHX	1	3417	7/7	0.99	0.11	81,82,90,102	0
81	OHX	1	3401	7/7	0.99	0.11	47,52,58,66	0
81	OHX	AT	206	7/7	0.99	0.12	74,80,84,90	0
81	OHX	1	3402	7/7	0.99	0.10	67,68,70,70	0
81	OHX	1	3420	7/7	0.99	0.08	81,82,88,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	1	3421	7/7	0.99	0.07	79,84,93,106	0
81	OHX	AC	101	7/7	0.99	0.11	63,79,84,86	0
82	MG	1	4153	1/1	0.99	0.06	59,59,59,59	0
81	OHX	1	3403	7/7	0.99	0.10	48,50,57,66	0
81	OHX	1	3404	7/7	0.99	0.11	71,77,81,85	0
81	OHX	1	3405	7/7	0.99	0.13	70,78,88,96	0
81	OHX	AR	3401	7/7	0.99	0.10	63,64,69,70	0
81	OHX	AR	3402	7/7	0.99	0.12	53,61,66,70	0
81	OHX	AR	3403	7/7	0.99	0.10	54,58,62,67	0
81	OHX	AR	3405	7/7	0.99	0.13	64,71,72,74	0
81	OHX	AR	3468	7/7	0.99	0.07	89,92,97,121	0
81	OHX	sR	1903	7/7	0.99	0.10	63,67,70,78	0
81	OHX	sR	1904	7/7	0.99	0.11	77,86,90,100	0
81	OHX	sR	1905	7/7	0.99	0.11	74,76,82,84	0
81	OHX	sR	1906	7/7	0.99	0.08	82,82,91,100	0
81	OHX	sR	1907	7/7	0.99	0.09	68,84,90,100	0
81	OHX	sR	1908	7/7	0.99	0.08	80,83,86,96	0
81	OHX	sR	1909	7/7	0.99	0.10	77,80,88,97	0
81	OHX	sR	1910	7/7	0.99	0.10	73,82,86,105	0
81	OHX	AR	3406	7/7	0.99	0.09	75,76,81,82	0
81	OHX	sR	1912	7/7	0.99	0.09	73,79,83,94	0
81	OHX	sR	1913	7/7	0.99	0.07	83,86,91,107	0
81	OHX	sR	1914	7/7	0.99	0.08	84,85,89,109	0
81	OHX	AR	3470	7/7	0.99	0.06	97,100,107,139	0
81	OHX	sR	1916[A]	7/7	0.99	0.18	68,71,72,80	7
81	OHX	sR	1916[B]	7/7	0.99	0.18	73,75,81,117	7
81	OHX	sR	1917	7/7	0.99	0.07	82,83,91,110	0
81	OHX	AR	3407	7/7	0.99	0.11	65,67,72,72	0
81	OHX	sR	1919	7/7	0.99	0.07	80,84,94,114	0
81	OHX	AR	3408	7/7	0.99	0.11	77,83,85,88	0
82	MG	1	3757	1/1	0.99	0.13	44,44,44,44	0
81	OHX	AR	3409	7/7	0.99	0.10	62,64,73,75	0
82	MG	AR	4210	1/1	0.99	0.05	41,41,41,41	0
81	OHX	AR	3410	7/7	0.99	0.08	61,62,65,73	0
82	MG	AR	4212	1/1	0.99	0.05	60,60,60,60	0
81	OHX	AR	3411	7/7	0.99	0.12	79,81,90,94	0
81	OHX	AR	3412	7/7	0.99	0.10	72,76,84,85	0
81	OHX	1	3406	7/7	0.99	0.08	78,80,82,83	0
82	MG	AR	4216	1/1	0.99	0.04	44,44,44,44	0
81	OHX	1	4072	7/7	0.99	0.09	73,78,83,87	0
82	MG	AR	4218	1/1	0.99	0.13	42,42,42,42	0
81	OHX	AR	3415	7/7	0.99	0.10	75,81,86,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
81	OHX	1	3407	7/7	0.99	0.09	71,78,84,86	0
81	OHX	AR	3417	7/7	0.99	0.10	81,82,86,97	0
81	OHX	1	4076	7/7	0.99	0.09	74,76,83,91	0
81	OHX	AR	3419	7/7	0.99	0.07	76,79,86,90	0
81	OHX	AR	3420	7/7	0.99	0.09	76,80,88,95	0
81	OHX	AR	3421	7/7	0.99	0.10	75,83,87,93	0
81	OHX	A	1902	7/7	0.99	0.09	84,85,89,107	0
81	OHX	AR	3422	7/7	0.99	0.06	73,80,84,91	0
81	OHX	A	1904	7/7	0.99	0.08	92,95,99,121	0
81	OHX	A	1905	7/7	0.99	0.08	96,99,105,129	0
81	OHX	AR	3423	7/7	0.99	0.09	78,83,87,89	0
85	ZN	AK	102	1/1	0.99	0.02	54,54,54,54	0
85	ZN	AN	500	1/1	0.99	0.02	59,59,59,59	0
81	OHX	A	2103	7/7	0.99	0.10	73,85,92,95	0
85	ZN	AQ	501	1/1	0.99	0.04	83,83,83,83	0
81	OHX	A	2104	7/7	0.99	0.11	85,88,90,102	0
85	ZN	DL	103	1/1	0.99	0.04	58,58,58,58	0
85	ZN	DO	201	1/1	0.99	0.03	50,50,50,50	0
81	OHX	A	2105	7/7	0.99	0.09	85,88,95,107	0
81	OHX	AR	3424	7/7	0.99	0.11	77,84,92,94	0
85	ZN	b	201	1/1	0.99	0.04	92,92,92,92	0
81	OHX	AR	3425	7/7	0.99	0.10	83,87,89,99	0
85	ZN	e	101	1/1	0.99	0.04	94,94,94,94	0
85	ZN	g	501	1/1	0.99	0.03	136,136,136,136	0
85	ZN	d6	202	1/1	0.99	0.04	66,66,66,66	0
82	MG	v	303	1/1	0.99	0.04	52,52,52,52	0
81	OHX	AR	3489	7/7	0.99	0.10	81,82,91,112	0
81	OHX	AR	3426	7/7	0.99	0.08	78,79,88,94	0
81	OHX	1	3409	7/7	1.00	0.08	73,79,89,89	0
81	OHX	1	4071	7/7	1.00	0.09	64,67,73,74	0
81	OHX	AR	3404	7/7	1.00	0.08	60,66,66,74	0
81	OHX	CP	301	7/7	1.00	0.09	77,77,81,85	0

6.5 Other polymers ⓘ

There are no such residues in this entry.